October 2011 Area Air and Sub-Slab Air Quarterly Monitoring Report – Building 4

General Services Administration

Bannister Federal Complex

Kansas City, Jackson County, Missouri

April 3, 2012

Terracon Project No. 02107144

Prepared for:

General Services Administration

Kansas City, Missouri

Prepared by:

Terracon Consultants, Inc.

Lenexa, Kansas

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Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

April 3, 2012

Terracon

General Services Administration - Heartland Region
1500 East Bannister Rd (6PME)
Kansas City, MO 64131

Attn: Mr. Kevin D. Phillips, Computer Integrated Facilities Manager
Phone: (816) 823.1220
Email: kevin.phillips@gsa.gov

Re: October 2011 Area Air and Sub-Slab Air Quarterly Monitoring Report – Building 4
Bannister Federal Complex - 1500 East Bannister Road
Kansas City, Missouri 64131
Terracon Project Number: 02107144

Dear Mr. Phillips:

Terracon Consultants, Inc. (Terracon) is pleased to submit this report summarizing area air and sub-slab air quarterly monitoring performed for the General Services Administration (GSA) at the Bannister Federal Complex (BFC), specifically Building 4, located at 1500 East Bannister Road, Kansas City, Missouri.

Terracon environmental personnel conducted area air and sub-slab air sampling on October 14, 2011 through October 16, 2011. Services were performed in general accordance with Terracon's proposal (Proposal Number P02100887) dated September 23, 2010 and Tetra Tech EM Inc.'s (TetraTech) Final Work Plan and Quality Assurance Project Plan (Work Plan/QAPP) for Site Investigation and Limited Removal Action Activities dated September 1, 2010 and the subsequent addendum dated November 24, 2010.

We appreciate the opportunity to be of service and provide this information as part of the ongoing evaluation work at the Bannister Federal Complex. If you have any questions regarding this report, please call us at 913-492-7777.

Sincerely,
Terracon Consultants, Inc.

Wil W. King, P.G.
Senior Project Geologist

Gary A. Ganson, CIH, CSP
Senior Consultant

Cindy A. Baldwin, CIH, LIH
Senior Industrial Hygienist

Copies to: Addressee (2 copies plus digital copy)
TetraTech (digital copy only)

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OCTOBER 2011 AREA AIR AND SUB-SLAB AIR QUARTERLY MONITORING REPORT
BUILDING 4
GENERAL SERVICES ADMINISTRATION
BANNISTER FEDERAL COMPLEX
1500 EAST BANNISTER ROAD
KANSAS CITY, MISSOURI 64131

Terracon Project Number: 02107144
April 3, 2012

1.0 INTRODUCTION AND BACKGROUND

This report presents the results of area air and sub-slab air sampling conducted for the General Services Administration (GSA) at the Bannister Federal Complex (BFC), specifically Building 4, located at 1500 East Bannister Road, Kansas City, Missouri. Sampling activities were performed on October 14, 2011 through October 16, 2011. Terracon Consultants, Inc. (Terracon) conducted area air and sub-slab air monitoring in general accordance with the Tetra Tech EM, Inc. (TetraTech) Work Plan and Quality Assurance Project Plan for Site Investigation and limited Removal Action Activities (Work Plan/QAPP), dated September 1, 2010, addendum dated November 24, 2010, and Terracon's proposal dated September 30, 2010. Area air and sub-slab air sampling were conducted in Building 4 to assess for the presence of volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs).

1.1 Property Location and Site History

The BFC is a 300-acre federal complex, bordered on the north by a wooded bluff and Legacy Park, on the east by the Blue River and Blue River Road, on the south by Bannister Road and Indian Creek, and on the west by Troost Avenue. BFC was originally established in 1942 to build aircraft engines for the U.S. Navy. After World War II, manufacture of aircraft engines continued on the western portion of the BFC until the 1960s, while manufacturing of non-nuclear components of nuclear weapons began within the eastern portions of the BFC in 1949. Historic site use is detailed further in the May 2008 Site Preliminary Assessment (PA) and Site Inspection Report performed by SCS Engineers (SCS). Currently, more than half of the BFC (generally the eastern portion of the BFC) is managed by the U.S. Department of Energy (DOE) as the Kansas City Plant (KCP), while the remaining portion of the BFC is managed by GSA and is used primarily as warehouse and office space for governmental agencies.

1.2 Project Objectives

The finished spaces of Building 4 have been built over a raised floor over the original building slab, creating a crawl space beneath the south and east sections of the building. This crawl space is accessed through a trap door located in the southeast office area of the building.

Two crawlspace sub-slab, two crawlspace ambient air, two office indoor spaces, and two outdoor ambient air sampling locations were selected for collection and subsequent laboratory analysis. The air sampling locations were selected to:

- Evaluate airborne concentrations of VOCs and PCBs in indoor air (office/occupied space locations).
- Evaluate potential migration pathways created by perforations in the building foundation slab due to potentially affected soil and groundwater.
- Evaluate background concentrations of VOCs and PCBs in outdoor air associated with the GSA-controlled Building 4.

1.3 Scope and Report Limitations

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no other warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

These services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal.

The level of effort and associated tasks completed for this assessment were limited to the scope of services outlined in our September 30, 2010 proposal and in accordance with Contract GS-10F-0256K. Terracon did not attempt to identify every potential exposure or hazard present in the client's operation.

The results, findings, conclusions, and recommendations expressed in this report are based on sampling analytical results and information reported to Terracon by the client. Many factors such as workload, variations in work material composition, work processes, and weather conditions can affect member exposure concentrations and air monitoring results. The information contained in this report should not be relied upon to represent conditions that existed previously or at a later date. Terracon does not warrant the services of regulatory agencies, laboratories, or other third parties supplying information, which may have been used in the preparation of this report. No warranty, express or implied is made.

This report is prepared for the exclusive use of our client for the specific application to the project discussed and has been prepared in accordance with generally accepted industrial practices. In the event any changes in nature or location of processes, materials, or other conditions as outlined in this report are observed, the conclusions contained in this report

cannot be considered valid unless the changes are reviewed and the conclusions of this report are modified or verified in writing by Terracon.

2.0 AIR MONITORING

2.1 Air Sampling for VOCs and PCBs

2.1.1 Sub-Slab, Crawlspace, Indoor, and Ambient Air Sampling for VOCs

On October 14, 2011 through October 16, 2011, Terracon environmental personnel conducted sub-slab and indoor air sampling for VOCs and PCBs at Building 4 of the GSA BFC.

Prior to sample collection at each of the previously installed sub-slab locations (SS-1 and SS-2) for VOCs, a leak test was conducted to ensure no leaks were present between the sub-slab inlet and the Summa canister/sample train. The leak test was conducted by placing a portable enclosure over the sampling probe, sample tubing (Teflon tubing), and Summa canister, and introducing helium gas into the enclosure. An aliquot of sub-slab vapor was collected from the sample tubing line in an attached Tedlar bag using a vacuum box. Following, vapors were then screened for helium using a Dielectric MDG-2002 helium detector.

Prior to collecting the sub-slab samples, Terracon conducted a sub-slab vapor screening at each sampling port using RAE Systems ppbRAE. The results were documented in the field notes. Helium was detected at a concentration of 225 parts per million (ppm) for SS-1 and at a concentration of 1,350 ppm for SS-2. Although helium was detected during the leak tests, sampling proceeded (per United States Environmental Protection Agency (USEPA) agreement).

Upon completion of the leak tests and VOC screenings, sub-slab vapor samples were collected for VOC analysis using lab-provided Summa canisters and one-hour regulators. Sub-slab vapor sampling using Summa canisters was conducted in general accordance with procedures in the *Draft SOP for Installation of Sub-Slab Vapor Probes and Sampling Using EPA Method TO-15 to Support Vapor Intrusion Investigations*.

Terracon personnel documented all pertinent information on the field logs, including sample locations, start and stop times and regulator readings.

Following collection of sub-slab samples, crawlspace, indoor, and outdoor VOC air samples were collected over an approximately 24 hour period. Samples were collected as described in the QAPP, Section 4.3 – Sampling Procedures and Requirements, and were analyzed for VOCs by EPA Method TO-15A.

Summa canisters were placed as close as possible to the predetermined locations as described in the Work Plan/QAPP. Teflon tubing was attached to the Summa canister and the opposite (open end) was attached to an aluminum tripod to collect air from an approximate height of 4 to 5 feet above grade, to approximate the breathing zone. The pressure readings on the regulators were noted at the start of the sampling, at intermittent times during the sampling, and at the end of the sampling period.

During the sampling Terracon observed and noted that the pressure readings shown on the flow regulators appeared to be consistent between sample locations and appeared to be dropping at a pressure rate consistent with the 24-hour sampling timeframe. Terracon determined that the flow regulators appeared to be calibrated properly by the laboratory for the 1-hour and 24-hour samples.

Upon completion of the air sampling, the Teflon tubing and flow regulators were detached from the Summa canisters, Summa canisters sealed, and submitted to TestAmerica of Austin, Texas, under standard chain-of-custody (COC) protocol, for laboratory analysis by EPA Method TO-15A. A sample location diagram is provided in Appendix A.

2.1.2 Sub-Slab, Crawlspace, Indoor, and Ambient Air Sampling for PCBs

During the quarterly sampling event, two crawlspace sub-slab, two crawlspace indoor air, two office indoor air, and two outdoor air sampling locations were selected for collection and laboratory analysis.

Following completion of sub-slab sampling for VOC analysis, 24-hour sub-slab sampling was initiated for PCBs using low-volume mini-polyurethane foam (mini-PUF) sample tubes. The mini-PUF sampling apparatus consisted of a mini-PUF tube placed in a multi-purpose calibration jar equipped with a low volume pump. The inlet of the jar was connected to the sub-slab probe using a combination of Tygon® and Teflon tubing and stainless steel compression fittings, and the outlet of the jar was connected to a high-flow sampling pump. The sampling pump was calibrated with a TSI Model 4146 primary standard (serial #41460827009) to operate at approximately 5 liters per minute. During sample collection, the sampling pumps ran for approximately 24 hours.

For crawlspace, indoor, and outdoor air PCB sampling locations, a PS-1 high volume sample pump (PS-1 sampler) fitted with a high-volume PUF cartridge (provided by the contracted laboratory) was used. Prior to sampling, the PS-1 samplers were calibrated using a TE-5040A Calibrator and associated manometer. The TE-5040C Calibrator flow curve was calculated and provided by the manufacturer. The PS-1 samplers were operated for approximately 24 hours at approximate flow rates of 250 liters per minute.

Sub-slab samples were collected after a typical workday and workweek (a non-holiday week or weekday) over an approximately 24-hour period. Crawlspace, indoor, and outdoor air samples

were collected after a typical workday and workweek (a non-holiday week or weekday) over an approximately 24-hour period. Samples were collected as described in the QAPP, Section 4.3 – Sampling Procedures and Requirements, and were analyzed for PCBs using California Air Resources Board (CARB) Method 428.

Sampling equipment consisted of lab-provided mini-PUF and high-volume PUF cartridges and associated sample pumps. Samples were placed approximate to predetermined locations, as described in the Work Plan/QAPP.

Terracon personnel documented all pertinent information on the field logs, including sample locations and start and stop times.

Upon completion of the air sampling, the mini-PUF and high-volume PUF cartridges were detached from the sample pumps, sealed in plastic gallon-sized bags, and submitted to Columbia Analytical Services of Houston, Texas, under standard chain-of-custody (COC) protocol, for laboratory analysis by EPA Method CARB-428. A sample location diagram is provided in Appendix A.

3.0 ANALYTICAL METHODS

3.1 VOC Analysis

Samples were analyzed at the contract laboratory (TestAmerica) according to EPA Method TO-15A. Reporting limits were generally equal to or less than the appropriate screening levels. TestAmerica was provided an example report from VOC air sampling performed previously at the GSA facility, with the intent to provide similar detection limits; however, some of the detection limits provided in the example report exceeded the site-specific screening levels (see Section 5.2); therefore, some reporting levels for samples collected during the October 2011 sampling event exceed the site-specific screening levels.

The requested analyses were selected based on past sampling data and historical information acquired for the site. Laboratory analysis was performed in accordance with the reference methods, as documented or amended by the laboratories' internal standard operating procedures (SOPs). Calibration procedures and frequencies were in accordance with the listed EPA methods. Calibration standards were prepared from standard reference materials. Expedited turnaround time was not requested by the GSA Project Manager; therefore, standard turnaround time was requested for all analysis.

3.2 PCB Analysis

The QAPP specified the PCB congener sample analysis to be used as EPA Method TO-10A – *Determination of Pesticides and PCBs in Ambient Air Using Low Volume PUF Sampling Followed by GC/MD,* but upon further review, Terracon determined that Method TO-10A would not meet the required laboratory reporting limits; therefore, PCB samples were analyzed per PCB congener Method CARB-428.

Samples were analyzed at the contracted laboratory (Columbia Analytical Services), according to PCB congener Method CARB-428. Reporting limits were generally equal to or less than the appropriate EPA screening levels. The requested analyses were selected based on past sampling data and historical information acquired for the site. Laboratory analysis was performed in accordance with the reference methods, as documented or amended by the laboratory's internal SOPs. Calibration procedures and frequencies were in accordance with the listed EPA methods. Calibration standards were prepared from standard reference materials. Expedited turnaround time was not requested by the GSA Project Manager; therefore, standard turnaround time was requested for all analysis.

4.0 ANALYTICAL RESULTS

4.1 Analytical Screening Limits

The Site-Specific Screening Levels (SSSLs) provided in the USEPA Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011, were used as comparison values for the sub-slab, indoor, and outdoor air samples collected, with the exception of samples collected from the crawlspace (CS-1 and CS-2), which were compared to Short-Term Risk-Based Screening Levels (Short-Term SSSLs).

The SSSLs and Short-Term SSSLs were developed by USEPA Region 7, and are documented in USEPA-prepared "Science Documents" for Buildings 50 and 52 available online at http://www.epa.gov/region7/cleanup/bannister/index.htm. Screening levels were developed based on the industrial worker exposure scenario. The SSSL for trichloroethene (TCE) has been updated per the USEPA memorandum to GSA dated October 12, 2011. Screening levels utilized are provided on the tables presented in Appendix D.

4.1.1 Sub-Slab, Crawlspace, Indoor, and Outdoor Air Sampling Results-VOCs

Sub-Slab: The October 2011 sub-slab air monitoring results indicated concentrations of 1,2,4-trimethylbenzene of 83.8 micrograms per cubic meter (µg/m^3) in sample SS1. The identified concentration is above the SSSL of 25 µg/m^3 (non-cancer risk).

The sampling results also indicated a concentration of cis-1,2-dichloroethene of 1,590 µg/m^3, which is above the SSSL of 210 µg/m^3 (non-cancer risk), for sub-slab location SS2.

The sampling results also indicated a concentration of TCE of 88.9 µg/m^3, which is above the SSSLs of 24 µg/m^3 (cancer risk) and 7 µg/m^3 (non-cancer risk), respectively for sub-slab location SS2.

The sampling results also indicated a concentration of tetrachloroethene of 179 µg/m^3, which is above the SSSL of 17 µg/m^3 (cancer risk) for sub-slab location SS2.

Analytical tables are provided in Appendix D, Table 1.

Crawl Space: The October 2011 crawlspace air monitoring sampling results indicated concentrations of n-nonane of 129 µg/m^3 and 179 µg/m^3 for crawlspace locations CS1 and CS2, respectively. The identified concentrations of n-nonane are above the SSSL of 70 µg/m^3 (non-cancer risk).

The October 2011 crawlspace air monitoring sampling results also indicated concentrations of benzene of 2.12 µg/m^3 and 2.03 µg/m^3 for crawlspace locations CS1 and CS2, respectively. The identified concentrations of benzene are above the SSSL of 1.3 µg/m^3 (cancer risk).

Furthermore, access to the crawlspace (sample locations CS1 and CS2) is limited and exposure to workers is intermittent and of short duration; therefore, the VOC concentrations detected in the air samples collected from the crawlspace were additionally compared to Short-Term SSSLs. The crawlspace air samples collected did not exhibit VOC concentrations at levels above the Short-Term SSSLs. Short-Term SSSLs can be found in Appendix D, Table 3.

Laboratory results are provided in Appendix D, Table 2.

Indoor and Outdoor Air: The October 2011 indoor and outdoor air monitoring results did not indicate concentrations of VOCs above the SSSLs (cancer risk and non-cancer risk) in the indoor and outdoor air sampling locations with the exception of benzene at concentrations of 1.98 µg/m^3 (IA-1), 2.04 µg/m^3 (IA-2), 1.79 µg/m^3 (Dup), 2.24 µg/m^3 (OA-1), and 1.62 µg/m^3 (OA-2). The identified concentrations exceed the SSSL of 1.3 µg/m^3 (cancer risk).

Analytical tables are provided in Appendix D, Table 2.

4.1.2 Total Health Risk per Sampling Location - VOCs

Total cancer and total non-cancer risks were evaluated for each site sample location by summing the calculated cancer or non-cancer risk for VOCs analyzed per sample location.

Sample locations did not exhibit total cancer risks greater than the USEPA acceptable cancer risk range of 1.0 x 10^{-6} to 1.0 x 10^{-4}. Sample locations did not exhibit total non-cancer risks greater than the USEPA acceptable non-cancer Hazard Index (HI) of 1. Total cancer and non-cancer risks are presented on Tables 2 and 4, Appendix D.

4.1.3 Sub-Slab, Crawlspace, Indoor, and Ambient Air Sampling Results-PCBs

The October 2011 sub-slab, indoor, and outdoor air monitoring results did not indicate concentrations of dioxin-like PCB congeners above either the sample detection limits or the SSSLs for the sub-slab, indoor, and outdoor air sampling locations except for an identified concentration of 3.66 x 10^{-6} µg/m^3 for PCB 126 in the duplicate sample collected at sample IA-2. The identified concentration was qualified by the laboratory with "K" and "J" flags. The K qualification is used when the ion abundance ratios associated with a particular compound are outside the QC limits. A K flag indicates an estimated maximum possible concentration for the associated compound. The J qualification is used when the analyte concentration is below the method reporting limit but above the estimated detection limit. PCB 126 identified in the duplicate sample is within the USEPA's acceptable cancer risk range of 1 x 10^{-6} to 1.0 x 10^{-4}. PCB analytical tables are provided in Appendix D, Tables 5 and 6 and PCB cancer risk values can be found in Appendix D, Table 7.

4.1.4 Total Health Risk per Sampling Location – PCBs

Total cancer risks were evaluated for each site sample location by summing the calculated cancer risk for PCBs analyzed per sample location. Sample locations did not exhibit total cancer risks greater than the USEPA acceptable cancer risk range (1 x 10^{-4} to 1 x 10^{-6}). Non-carcinogenic health risks were not calculated as non-carcinogenic SSSLs for PCB congeners have not been developed by the USEPA.

4.1.5 Combined Health Risk by Sampling Location

Combined carcinogenic health risks were also evaluated for the indoor air and outdoor air sampling location at the site. Combined carcinogenic health risks were calculated by summing the total calculated cancer risks for VOCs and the total calculated cancer risks for PCBs for each sample location. Combined non-carcinogenic health risks were not calculated as non-carcinogenic SSSLs for PCB congeners have not been developed by the USEPA.

The calculated combined carcinogenic cancer risks were below the USEPA acceptable cancer risk range of 1.0 x 10^{-6} to 1.0 x 10^{-4}.

4.2 Vapor Intrusion Pathway Evaluation

In reviewing the tables presented in Appendix D of this report, it can be noted that contaminants analyzed for and identified in sub-slab locations appear to have minor influence

on crawlspace and indoor air except for chlorinated VOCs (discussed below). The attenuation factor of 0.1 associated with USEPA-prepared Science Documents for Buildings 50 and 52, available online at http://www.epa.gov/region7/cleanup/bannister/index.htm, appears to be a conservative approach applicable to the contaminants associated with Building 4.

Comparison of sub-slab data to crawl space collected does not indicate a correlation to sub-slab and crawlspace air concentrations. Trichloroethene, 1,2,4-trimethylbenzene, and tetrachloroethene were identified in the sub-slab samples (SS1 and SS2), but were not identified in the crawlspace or indoor air samples. n-Nonane was identified in both of the crawlspace samples (CS1 and CS2), but was not identified in the sub-slab or indoor air samples. Benzene was identified in crawlspace, indoor, and outdoor air samples collected at concentrations above the SSSL of 1.3 $\mu g/m^3$ (cancer risk), with the highest in outdoor air sample OA-1. The identified benzene concentrations may be a representation of outdoor conditions at time of sample collection and not representative of subsurface conditions.

5.0 QUALITY ASSURANCE

Following the QAPP requirements for data validation during sampling, Terracon conducted oversight of all sampling procedures. All calibration equipment used to set pump air flows were current to within one year of being laboratory calibrated. All equipment was field calibrated before and after sampling to verify the flow rates and functioning of the equipment. All calibration equipment was properly calibrated against recognized primary standards. Calibration equipment documentation is included in Appendix C.

5.1 Sample Collection, Handling, and Chain of Custody

Terracon collected and handled VOC and PCB samples in general accordance with the Tetra Tech Work Plan/QAPP dated September 1, 2010, subsequent addendum dated November 24, 2010, and Terracon's proposal dated September 30, 2010.

Terracon field personnel labeled the collected samples as described in the Work Plan/QAPP. Each sample was labeled with a unique sample identifier in the field and sample information was documented in the field worksheets. Sample label information included sample ID, date, and time. The sample identifier remained the same through laboratory reporting to ensure consistency.

Laboratory analytical reports were kept in a project file maintained and secured according to the Terracon filing system. A hard copy of this plan and other pertinent documents (e.g., correspondence, field notes, etc.) were also kept in the project file. No data or documentation was stored solely on electronic media. As previously stated, no project data was accepted prior to data validation in accordance with the QAPP.

Field personnel maintained project field worksheets that remained on site through the duration of the field activities. Observed site conditions, sample collection information, problems encountered, sampling plan deviations, etc. were documented on the field worksheets.

Sample chain-of-custody procedures were followed in accordance with the QAPP and relevant Terracon SOPs. Sample chain-of-custody forms recorded all personnel responsible for sample storage and transport through laboratory submission. Appendix E provides chain of custody documentation.

5.2 Environmental Laboratory Controls

TestAmerica of Austin, Texas performed the environmental laboratory analyses for the VOC samples and Columbia Analytical Services of Houston, Texas performed the laboratory analyses of the PCB samples.

5.2.1 Holding Times and Detection Limits

Laboratory analyses were performed within the sample holdings times prescribed by the specific analytical methods applied and as described in the QAPP. In addition, laboratory detection limits for the primary contaminants of concern (primarily chlorinated VOCs and PCBs) were generally at or below applicable SSSLs. However, the following VOCs detection limits generally exceeded the SSSLs: carbon tetrachloride, chlorodibromomethane, ethylene dibromide, 1,1,2,2-tetrachloroethane, benzyl chloride, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene, hexachloro-butadiene, and acrylonitrile.

The laboratory reports in Appendix E outline the laboratory detection and reporting limits for each individual sample analysis.

5.2.2 Internal Laboratory Control Samples

Laboratory quality assurance and quality control (QA/QC) results – e.g., laboratory blank, matrix spike, matrix spike duplicate, etc. – were within acceptable ranges based on the internal Level II data validation procedures performed by Test America and Columbia Analytical. The Case Narrative summaries and quality control data packages provided in Appendix E provide additional details regarding laboratory QA/QC results.

5.3 VOC and PCB Air Sample Duplicate Results

Terracon collected a duplicate air sample for VOC and PCB analysis at sampling point B4-IA2. The corresponding duplicate samples are identified as B4-Dup-VOCs and B4-Dup-PCBs, respectively. Terracon performed a relative percent difference (RPD) calculation per the Work Plan/QAPP for the VOC and PCB analytical results in relation to the duplicate samples

collected. The RPD calculation for VOCs resulted in RPD percentages below the target 20% presented in the Work Plan/QAPP except for 2-butanone (MEK), heptane, and n-nonane. The RPD calculation for PCBs resulted either in uncalculated percentages (because PCB was non-detect in either sample) or in percentages above the target 20% presented in the Work Plan/QAPP for PCB 77, PCB 118, PCB 105, PCBs 156 + 157, and all other PCBs. The values exceeding the 20% RPD may not be good indicators of laboratory method precision as these analytes were J-coded.

5.4 Sample Media Blank Results

Terracon submitted one mini-PUF cartridge and one PUF cartridge as media blank samples and one Summa canister as a trip blank for laboratory analysis. Laboratory analysis of the Summa canister media blank sample did not indicate VOCs at concentrations above the laboratory reporting limits. Laboratory analysis of the mini-PUF cartridge and PUF cartridge media blank samples indicated PCB concentrations below the laboratory reporting limit. Tables 2, 4, and 7 in Appendix D provide a summary of media blank laboratory analysis data.

5.5 Laboratory Controls

Laboratory data were reported within acceptable ranges for relevant quality control parameters (e.g. laboratory control samples, matrix spikes, etc.) and no results were rejected through Columbia Analytical Services and TestAmerica quality control reviews. Internal laboratory QA/QC packages are provided with the Appendix E analytical reports.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

- Indoor air monitoring results do not indicate concentrations of dioxin-like or other PCB congeners above the calculated cancer risk level of 1 $x10^{-6}$ except for PCB 126 in the duplicate sample. PCB 126 identified in the duplicate sample exceeded the SSSL, but is within the USEPA's acceptable cancer risk range of 1 x 10^{-6} to 1.0 x 10^{-4}. In addition, the duplicate concentration may not be a good indicator of actual site conditions, as the analyte was J-coded (estimated).

- Air monitoring results indicate concentrations of 1,2,4-trimethylbenzene, cis-1,2-dichloroethene, TCE, and tetrachloroethene above the SSSLs for the sub-slab sampling locations SS1 and SS2. However, concentrations of these compounds detected in sub-slab samples were not detected in crawlspace or indoor air (occupied office space) samples at concentrations above SSSLs; therefore, concentrations of these chemicals do not appear to be affecting indoor air quality in Building 4.

- Based on data collected during the October 2011 air monitoring event, current building occupants do not appear to be exposed to concentrations of VOCs and PCBs in indoor air and crawlspace air. VOCs and PCBs were either not detected above laboratory detection limits, not detected at concentrations above the SSSLs, or they were detected at concentrations corresponding to carcinogenic or non-cancer risk values acceptable by the USEPA.

- Contaminant migration pathways may exist through perforations in the building foundation slab. However, based on identified contaminant concentrations at levels below the applicable SSSLs identified in the indoor air and crawlspace samples collected, it does not appear that contaminants are migrating to the employee-occupied spaces at concentrations above the applicable SSSLs.

6.2 Recommendations

Based on the results of the October 2011 sub-slab, crawlspace, indoor, and ambient air sampling event, Terracon does not recommend the continuation of quarterly air sampling.

APPENDIX A

Exhibits

LEGEND

- INDOOR AIR SAMPLE LOCATION - VOCs/PCBs
- SUB-SLAB VAPOR SAMPLE LOCATION - VOCs/PCBs
- OUTDOOR AIR SAMPLE LOCATION - VOCs/PCBs
- CRAWL SPACE AIR SAMPLE LOCATION - VOCs/PCBs

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BASE FIGURE PROVIDED BY TETRA TECH

Project Mngr: WWK	Project No. 02107144	Terracon Consulting Engineers and Scientists	EXHIBIT 1 - SAMPLE LOCATION DIAGRAM
Drawn By: DBM	Scale: NOT TO SCALE	13910 W. 96TH TERRACE KANSAS CITY, KS 66215	BUILDING 4
Checked By: WWK	File No. E2	PH. (913) 492-7777 FAX. (913) 492-7443	FOURTH QUARTER VOC & PCB SAMPLING
Approved By: WWK	Date: 12/1/11		1500 E. BANNISTER ROAD
			KANSAS CITY, MISSOURI

Exhibit # 1

APPENDIX B

Photographic Documentation

PHOTO #1 Building 4 – Crawl Space – Northeast Corner of Lower Level Sample No. B4CS-SS1-VOCs	
PHOTO #2 Building 4 – Crawl Space – Northeast Corner of Lower Level Sample No. B4CS-SS1-PCBs Not Shown: B4CS-CS1-VOCs B4CS-CS1-PCBs B4CS-SS2-VOCs	
PHOTO #3 Building 4 – Crawl Space – Northwest Corner of Lower Level Sample No. B4CS-SS2-VOCs Not Shown: B4CS-SS2-PCBs	

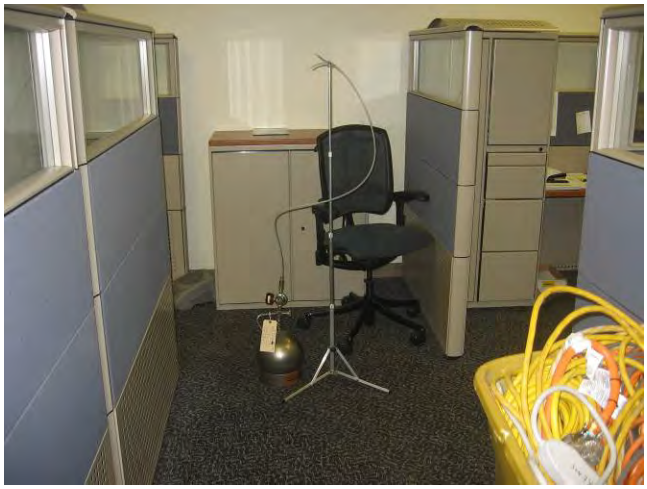
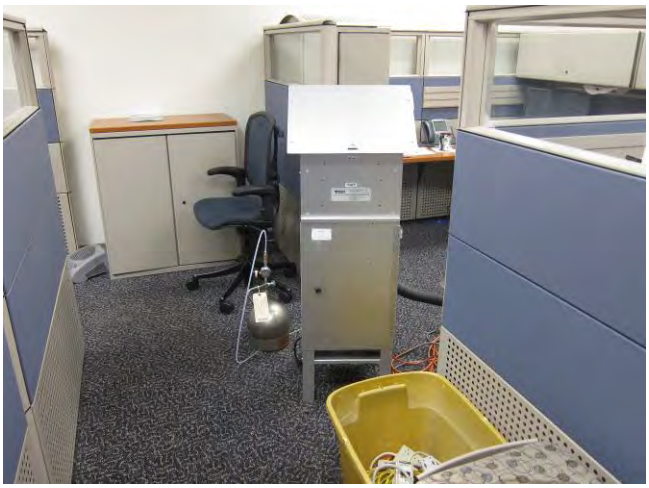
PHOTO #4 Building 4 – Crawlspace – South End on Upper Level Sample No. B4CS-CS2-VOCs	
PHOTO #5 Building 4 – Main Level – Southeast Office Sample No. B4CS-CS2-PCBs	
PHOTO #6 Building 4 – Main Level – Southeast Office – West Side Sample No. B4-IA1-VOCs	

PHOTO #7 Building 4 – Main Level – Southeast Office – West Side Sample No. B4-IA1-PCBs	
PHOTO #8 Building 4 – Main Level – Southeast Office – Northeast Corner Sample No. B4-IA2-VOCs Dup-VOCs B4-IA2-PCBs Dup-PCBs	
PHOTO #9 Building 4 – Exterior – Southeast Corner Sample No. B4-OA2-PCBs Not Shown: B4-OA2-VOCs B4-OA1-VOCs B4-OA1-PCBs	

APPENDIX C

Field Logs

Field Sample ID	General Sample Location
B4CS-SS1-VOCs	Bld 4-CrawlSpace-Northeast Corner of Lower Level
Collection Date	
10-14-11	
Collected By	**Facility**
WWK, CSC + TEE	Bannister Complex

Sample Type (check one)	Workload (check one)	Building
X Sub-slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	4

Exposure Type (check one)	Sample Placement (check one)	Exposure Estimate Method (check one)
☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	X sub-slab ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1814	1910	56	—	29.16" Hg	86.1	—
					Sampling Equipment		
					Suma 5425		
	Total Runtime / Volume				Reg 7301138		
Work shift Information	Shift: ~1 hr	Shift Start	Shift End	Total Minutes ~60			

Factors that Could Modify Results of this Sample

Sample Comments

PID in sub-slab port - 10-20 ppb
ambient between 0 + 30 ppb - PID
leak test attempted at 1754 → 1100 ppm → retest (Dielectric Helium Meter)
2nd leak test attempted at 1758 → 225 ppm → retest
3rd leak test attempted at 1803 → 400 ppm → new tubing + retest
4th leak test attempted at 1808 → 225 ppm → note + sample
PID in tedlar bag from 4th leak test → < 10 ppb
prior to opening suma - gauge read 1" Hg (=0)
started sample at 1814 → regulator at > 30" Hg
stopped sample at 1910 → regulator at 4" Hg

Photo 1300

Field Sample ID B4CS-SS2-VOCs	General Sample Location B184-Crawl Space-Southwest Corner of Lower Level
Collection Date 10-14-11	
Collected By WWK CSC + TEE	Facility Bannister Complex
Sample Type (check one) X sub-slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	Sample Placement (check one) X sub-slab ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1830	1930	60	—	29.16" Hg	86.1	—
					Sampling Equipment		
					Summa RA2328		
	Total Runtime / Volume				Reg 7301146		
Work shift Information	Shift: ~~4~~ 1hr	Shift Start	Shift End	Total Minutes ~60			

Factors that Could Modify Results of this Sample

Sample Comments

Ambient PID between 0 + 30ppb
PID in sub slab port - 0ppb
leak test attempted at 1821 → 3% Dielectric Helium Meter → retest
2nd leak test attempted at 1826 → 1350ppm → sample
PID in tedlar from 2nd leak test → < 10ppb
started sample at 1830 → regulator at > 30" Hg
prior to opening summa at regulator at 2" Hg
stopped sample at 1930 → regulator at 6" Hg

Photo 1301

Field Sample ID B4CS ~~B4~~-CS1-VOCs	General Sample Location Bld 4-Crawl Space-North End on Lower Level Between Sub-Slab Sampling Points
Collection Date 10-14-11 + 10-15-11	
Collected By WWK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1951 on 10-14-11	1634 on 10-15-11	1123	—	29.16" Hg	86.1	—
	Total Runtime / Volume						

Sampling Equipment
Summa RA2380
Reg 7299278

Work shift Information	Shift: 24 hrs	Shift Start	Shift End	Total Minutes 1440

Factors that Could Modify Results of this Sample

Sample Comments

started sample at 1951 → regulator at 26" Hg
ambient PID = 0-30 ppb

Final @ 4" Hg

Photo

Field Sample ID B4CS-CS2-VOCs	General Sample Location Bld 4 - Crawl Space - South End on Upper Level
Collection Date 10-14-11 + 10-15-11	
Collected By WWK CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1951 on 10-14-11	1951 on 10-15-11	1440	—	29.16" Hg	86.1	—
	Total Runtime / Volume						

Sampling Equipment: Suma RA2251 Reg 7298377

Work shift Information	Shift: ~24 hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

started sample at 1951 → regulator at >30" Hg
ambient PID = 0-30ppb
10.5" Hg @ 1634
stopped at 1951 → regulator at 5" Hg

Photo ~~4562~~

Field Sample ID: B4-IA1-VOCs	General Sample Location: Bld 4 - Main Level - Southeast Office Area - West Side
Collection Date: 10-14-11 + 10-15-11	
Collected By: WLWK CSC, + TEE	Facility: Bannister Complex
Sample Type (check one): ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Building: 4
Workload (check one): ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	
Exposure Type (check one): ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	Exposure Estimate Method (check one): ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)
Sample Placement (check one): ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1953 on 10-14-11	1953 on 10-15-11	1440	—	29.13"	72.6	—
	Total Runtime / Volume						

Sampling Equipment: Suma RA0844 Reg 7300138

Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

started sample at 1953 → regulator at 29" Hg
ambient PID = 0.0 ppm

@ 9" Hg 1627
stopped sample at 1953 → regulator at 4" Hg

Photo 1305

Field Sample ID B4-IA2-VOCs	General Sample Location Bld 4-Main Level-Southeast Office Area-Northeast Corner
Collection Date 10-14-11 & 10-15-11	
Collected By WLWK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1954 on 10-14-11	1954 on 10-15-11	1440	—	29.13" Hg	72.6	—
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes 1440			

Sampling Equipment
Suma 5403
Reg 5502893

Factors that Could Modify Results of this Sample

Sample Comments

started sample at 1954 → regulator at 30" Hg
ambient PID = 0.0 ppm

@ 9" Hg @ 1627
stopped sa @ 6" Hg

Photo 4572

Field Sample ID B4-Dup-VOCs	General Sample Location Bld 4-Main Level-Southeast Office Area-Northeast Corner (Next to IA2)
Collection Date 10-14-11 + 10-15-11	
Collected By WWK CSC TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone
	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1954 on 10-14-11	1954 on 10-15-11	1440	—	29.13" Hg	72.6	—
	Total Runtime / Volume						

Sampling Equipment: Suma RA2257 Reg 7289097

Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes 1440

Factors that Could Modify Results of this Sample

Sample Comments

started sample at 1954 → regulator at 28" Hg
ambient PID = 0.0ppm

@ 8" Hg 1627
Stopped @ 4" Hg

Photo 4572

Field Sample ID: B4-OA1-VOCs	General Sample Location: Bld 4 - Exterior - Northwest Corner of Building
Collection Date: 10-14-11 + 10-15-11	
Collected By: WWK, CSC, TEE	Facility: Bannister Complex
Sample Type (check one): [X] Area [ ] Blank [ ] Bulk [ ] Personal [ ] Wipe	Workload (check one): [ ] Light [X] Normal [ ] Heavy [ ] Unknown
	Building: 4
Exposure Type (check one): [ ] Blank [ ] Bulk [ ] Ceiling [ ] Grab [ ] Peak [ ] STEL [X] TWA	Sample Placement (check one): [ ] Area [ ] Collar [ ] Inside helmet [ ] Wipe [ ] Bulk [X] General breathing zone
	Exposure Estimate Method (check one): [X] Use sample period TWA as exposure (assume constant exposure) [ ] Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	2000 on 10-14-11	1621 on 10-15-11	1221	—	29.99" Hg	60	—
	Total Runtime / Volume						

Sampling Equipment: Suma RA2269 Reg 7340650

Work shift Information	Shift: 24 hrs	Shift Start	Shift End	Total Minutes 1440

Factors that Could Modify Results of this Sample

Sample Comments

started sample at 2000 → regulator at 29" Hg
ambient PID = 0.0ppm

Final 2" Hg

Photo

Field Sample ID B4-OA2-VOCs	General Sample Location Bld 4 - Exterior - Southeast Corner of Building
Collection Date 10-14-11 + 10-15-11	
Collected By WLWK CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone
	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1959 on 10-14-11	1959 on 10-15-11	1440	—	29.99" Hg	60	—
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment
Suma 1001
Reg 7343485

Factors that Could Modify Results of this Sample

Sample Comments

started sample at 1959 → regulator at >30" Hg
ambient PID = 0.0ppm

@ 12" Hg @ 1623
stopped sample at 1959 → regulator at 8" Hg

Photo

Field Sample ID B4-Blank-VOCs	General Sample Location —
Collection Date 10-15-11	
Collected By LWK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☐ Area ☒ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) x Blank ☐ Light ☐ Normal ☐ Heavy ☐ Unknown
	Building 4
Exposure Type (check one) ☒ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☐ TWA	Sample Placement (check one) x Blank ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone
	Exposure Estimate Method (check one) x Blank ☐ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	—	—	—	—	—	—	
					Sampling Equipment Suma RA0886		
	Total Runtime / Volume						

Work shift Information	Shift: —	Shift Start	Shift End	Total Minutes —

Factors that Could Modify Results of this Sample

Sample Comments

Photo

Field Sample ID B4CS - SS1 - PCBs	General Sample Location Bld 4 - Crawl Space - Northeast Corner of Lower Level
Collection Date 10-14-11 + 10-15-11	
Collected By WWK CSC + TEE	Facility Bannister Complex
Sample Type (check one) X sub-slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	Sample Placement (check one) X sub slab ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone
	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1950	1950	1440	7294.32	29.16" Hg	86.1	—
	on 10-14-11	on 10-15-11			Sampling Equipment: Hi-Vol Pump # M04		
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Factors that Could Modify Results of this Sample

Sample Comments

pump M04 precal to 5.068 L/min
started sample at 1950
ambient PID = 0-30ppb
stopped sample at 1950
pump M04 postcal to 5.063 L/min
average flowrate for pump M04 = 5.066 L/min

Photo 1302

Field Sample ID B4CS-SS2-PCBs	General Sample Location Bld 4 - Crawlspace - Southwest Corner of Lower Level
Collection Date 10-14-11 + 10-15-11	
Collected By WWK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) x sub-slab ☐ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	Sample Placement (check one) x sub-slab ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	1950 on 10-14-11	1950 on 10-15-11	1440	7247.52	29.16" Hg	86.1	—
	Total Runtime / Volume						

Sampling Equipment: Hi-Vol Pump #9

Work shift Information	Shift: ~24 hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

pump #9 precal to 5.037 L/min
started sample at 1950
ambient PID = 0-30ppb
stopped sample at 1950
pump #9 post cal to 5.029 L/min
average flow rate for pump #9 = 5.033 L/min

Photo

Field Sample ID B4-SS Blank-PCBs	General Sample Location —
Collection Date 10-15-11	
Collected By WLK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☐ Area ☒ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) x Blank ☐ Light ☐ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☒ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☐ TWA Sample Placement (check one) x Blank ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	Exposure Estimate Method (check one) x Blank ☐ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	—	—	—	—	—	—	
					Sampling Equipment		
	Total Runtime / Volume				—		
Work shift Information	Shift: —	Shift Start	Shift End	Total Minutes —			

Factors that Could Modify Results of this Sample

Sample Comments

Field Sample ID B4CS-CS1-PCBs	General Sample Location B104-Crawlspace-North End on Lower Level Between Sub-Slab Sampling Points
Collection Date 10-15-11 + 10-16-11	
Collected By WLJK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	2010 on 10-15-11	2010 on 10-16-11	1440	356,609 L or 356.609 m³	29.16" Hg	86.1	—
	Total Runtime / Volume						
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Sampling Equipment: TISCH # R7153

Factors that Could Modify Results of this Sample

Sample Comments

Calibration

70" → 3.2 + 3.5

60" → 2.8 + 3.0

50" → 2.4 + 2.6

40" → 1.9 + 2.1

30" → 1.3 + 1.6

- Run @ 60"
stopped @ 58"
average = 59"

Photo

Field Sample ID B4CS-CS2-PCBs	General Sample Location B104-Crawl Space - South End on Upper Level
Collection Date 10-15-11 + 10-16-11	
Collected By WLWK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	~~BP (mm Hg)~~	Avg. Temp (F)	RH (%)
	2008 on 10-15-11	2008 on 10-16-11	1440	353,782 L or 353.782 m³	29.16" Hg	86.1	—
	Total Runtime / Volume						

Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440

Sampling Equipment: TISCH # 3106

Factors that Could Modify Results of this Sample

Sample Comments

Calibration

70" → 3.6+3.8

60" → 3.1+3.3

50" → 2.6+2.8

40" → 2.1+2.3

30" → 1.5+1.7

Run @ 55"

stopped @ 50"

average = 52.5"

Photo 4562

Field Sample ID B4-IA1-PCBs	General Sample Location Bld 4-Main Floor-Southeast Office Area-West Side
Collection Date 10-15-11 + 10-16-11	
Collected By WLWK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	2043 on 10-15-11	2043 on 10-16-11	1440	370,681 L or 370.681 m³	29.13" Hg	72.6	—
	Total Runtime / Volume				Sampling Equipment TISCH # 2931		
Work shift Information	Shift: ~24 hrs	Shift Start	Shift End	Total Minutes ~1440			

Factors that Could Modify Results of this Sample

Sample Comments

Calibration
70" → 3.5+3.7
60" → 3.1+3.3
50" → 2.6+2.8
40" → 2.1+2.3
30" → 1.6+1.8

Run @ 55"
Stopped @ 59"
average = 57"

Photo 4571

Field Sample ID B4-IA2-PCBs	General Sample Location Bld 4 - Main Floor - Southeast Office Area - Northeast Corner
Collection Date 10-15-11 + 10-16-11	
Collected By WWK, CSC, + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown
	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone
	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	2045 on 10-15-11	2045 on 10-16-11	1440	365,977 L or 365.977 m³	29.13" Hg	72.6	—
	Total Runtime / Volume				Sampling Equipment TISCH # 2898		
Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440			

Factors that Could Modify Results of this Sample

Sample Comments

Calibration
70" → 3.5 + 3.7
60" → 3.1 + 3.3
50" → 2.6 + 2.8
40" → 2.2 + 2.4
30" → 1.6 + 1.8

Run @ 55"
Stopped @ 55"
average = 55"

Photo 4572

Field Sample ID B4-Dup-PCBs	General Sample Location Bld 4-Main Floor-Southeast Office Area-Northeast Corner-By IAQ
Collection Date 10-15-11 + 10-16-11	
Collected By WLWK CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP ~~(mm Hg)~~	Avg. Temp (F)	RH (%)
	2045 on 10-15-11	2045 on 10-16-11	1440	360,170 L or 360.170 m³	29.13" Hg	72.6	—
	Total Runtime / Volume				Sampling Equipment TISCH # 3172		

Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

Calibration	Run @ 56"
70" → 3.4+3.6	Stopped @ 55"
60" → 3.0+3.2	average = 55.5"
50" → 2.5+2.7	
40" → 2.0+2.2	
30" → 1.5+1.7	
Photo 4572	

Field Sample ID B4-OA1-PCBs	General Sample Location Bld 4 - Exterior - Northwest Corner of Building
Collection Date 10-15-11 + 10-16-11	
Collected By WWK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) ☐ Light ☒ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA Sample Placement (check one) ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	Exposure Estimate Method (check one) ☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	2034 on 10-15-11	2034 on 10-16-11	1440	— 365,561L or 365.561m³	29.06" Hg	68.5	—
	Total Runtime / Volume				Sampling Equipment TISCH #3074		

Work shift Information	Shift: ~24hrs	Shift Start	Shift End	Total Minutes 1440

Factors that Could Modify Results of this Sample

Sample Comments

Calibration

70" → 3.5 + 3.7

60" → 3.1 + 3.3

50" → 2.6 + 2.8

40" → 2.1 + 2.3

30" → 1.5 + 1.8

Run @ 55"

Stopped @ 55"

average = 55"

Photo #5

Field Sample ID	General Sample Location
B4-OA2-PCBs	Bld 4 - Exterior - Southeast Corner of Building
Collection Date	
10-15-11 + 10-16-11	
Collected By	**Facility**
WWK CSC + TEE	Bannister Complex

Sample Type (check one)	Workload (check one)	Building
☒ Area ☐ Blank ☐ Bulk ☐ Personal ☐ Wipe	☐ Light ☒ Normal ☐ Heavy ☐ Unknown	4

Exposure Type (check one)	Sample Placement (check one)	Exposure Estimate Method (check one)
☐ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☒ TWA	☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☒ General breathing zone	☒ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (~~mm Hg~~)	Avg. Temp (F)	RH (%)
	8:20 28 on 10-15-11	20 28 on 10-16-11	1440	363,279 L	29.06" Hg	68.5	—
				363.279 m³	Sampling Equipment: TISCH # ~~3075~~ → short R7150		
	Total Runtime / Volume						

Work shift Information	Shift: ~24 hrs	Shift Start	Shift End	Total Minutes ~1440

Factors that Could Modify Results of this Sample

Sample Comments

Calibration

70" → 3.5 + 3.7

60" → 3.0 + 3.1

50" → 2.6 + 2.7

40" → 2.1 + 2.2

30" → 1.6 + 1.6

Run @ 55"

Stopped @ 56"

average = 55.5"

Photo 4564

Field Sample ID B4-Blank-PCBs	General Sample Location —
Collection Date 10-16-11	
Collected By WLWK, CSC + TEE	Facility Bannister Complex
Sample Type (check one) ☐ Area ☒ Blank ☐ Bulk ☐ Personal ☐ Wipe Workload (check one) x Blank ☐ Light ☐ Normal ☐ Heavy ☐ Unknown	Building 4
Exposure Type (check one) ☒ Blank ☐ Bulk ☐ Ceiling ☐ Grab ☐ Peak ☐ STEL ☐ TWA Sample Placement (check one) x Blank ☐ Area ☐ Collar ☐ Inside helmet ☐ Wipe ☐ Bulk ☐ General breathing zone	Exposure Estimate Method (check one) x Blank ☐ Use sample period TWA as exposure (assume constant exposure) ☐ Calculate TWA (assume no exposure outside sample period)

Sample Runtimes and Volumes	Sample Start	Sample Stop	Runtime (min)	Volume (L)	BP (mm Hg)	Avg. Temp (F)	RH (%)
	—	—	—	—	—	—	
					Sampling Equipment		
	Total Runtime / Volume				—		
Work shift Information	Shift: —	Shift Start	Shift End	Total Minutes —			

Factors that Could Modify Results of this Sample

Sample Comments

APPENDIX D

Analytical Tables

Table 1
Analytical Data Summary for Building 4 - Sub-Slab Volatile Organic Compounds
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B4CS-SS1-VOCs								B4CS-SS2-VOCs								Screening Levels	
	Sub-Slab Air Samples																Cancer Risk = 1E-06	Non-Cancer HQ = 0.1
Sample Date	1/7/2011		4/15/2011		7/8/2011		10/15/2011		1/7/2011		4/15/2011		7/8/2011		10/15/2011			
Chlorodifluoromethane	17.9		2.68	J	108		6.52		20.3		1.73	J	74.8		12.3		NE	175200
Dichlorodifluoromethane	2.04	J	2.54	J	2.28	J	2.12	J	2.03	J	2.42	J	2.39	J	2.36	J	NE	700
Chloromethane	0.437	J	0.823	J	ND		0.309	J	0.818	J	1.32	J	ND		0.902	J	NE	320
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	105120
Vinyl chloride	ND		ND		4.96		ND		ND		ND		76.6		0.753	J	22	350
1,3-Butadiene	ND		ND		ND		ND		ND		ND		ND		ND		3.3	7
Butane	0.563	J	0.655	J	0.442	J	1.37	J	1.4	J	1.25	J	0.659	J	0.366	J	NE	2450
Bromomethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	17 5
Chloroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	35040
Acetonitrile	0.193	J	ND		1.29	J	0.34	J	ND		0.323	J	0.353	J	0.979	J	NE	210
Trichlorofluoromethane	1.39	J	1.5	J	1.44	J	1.38	J	1.35	J	1.43	J	1.47	J	1.55	J	NE	2450
Acetone	47.7	B	15.2	B	196	RA	72.5	B	49.1	B	40.2	B	74.6	B	79.4	B	NE	108620
Acrylonitrile	ND		ND		ND		ND		ND		ND		ND		ND		1.4	7
n-Pentane	3.58		0.245	J	ND		2.3	J	9.5		1.34	J	ND		0.402	J	NE	3500
Diethyl ether*	ND		ND		ND		ND		ND		ND		ND		ND		NE	NE
1,1-Dichloroethene	ND		ND		ND		ND		ND		ND		23.2		ND		NE	8410
Methylene chloride	ND		0.283	J	1.02	J	ND		ND		0.561	J	2.41	J	ND		210	3500
Carbon disulfide	2.26	J	0.987	J	0.382	J	ND		2.38	J	4.47		0.836	J	ND		NE	2450
Allyl chloride*	ND		ND		ND		ND		ND		ND		ND		ND		NE	NE
1,1,2-Trichlorotrifluoroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	105120
trans-1,2-Dichloroethene	1.83	J	0.695	J	37.2		2.07	J	ND		ND		***295***	RA	15.6		NE	210
1,1-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		61	70080
Methyl tert-Butyl Ether	ND		ND		ND		ND		ND		ND		ND		ND		380	10510
Vinyl acetate	0.619	J	ND		1.22	J	1.03	J	0.784	J	2.24	J	0.453	J	3.5	J	NE	700
2-Butanone (MEK)	2.84		2.11	J	7.2		3.2		3.37		3.96		3.5		11.6		NE	17520
cis-1,2-Dichloroethene	141	RA	82.2		***7390***	RA	127		48.8		23.6		***45800***	RA	***1590***	RA	NE	210
Hexane	ND		ND		ND		ND		0.562	J	0.298	J	ND		1.23	J	NE	2450
Chloroform	ND		ND		ND		ND		ND		ND		1.66	J	0.724	J	4.3	340
1,2-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		3.8	NE
1,1,1-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	17520
Benzene	0.422	J	0.337	J	0.793	J	0.9	J	0.502	J	0.457	J	4.26		0.855	J	13	110
Carbon tetrachloride	0.695	J	0.653	J	0.796	J	ND		0.699	J	0.589	J	0.723	J	ND		16	350
Cyclohexane	ND		ND		ND		ND		ND		ND		ND		ND		NE	21020
1,2-Dichloropropane	ND		ND		ND		ND		ND		ND		ND		ND		9.8	14
Bromodichloromethane	ND		ND		ND		ND		ND		ND		ND		ND		2.7	NE
Trichloroethene	4.27	J	3.14	J	***262***		6.93		1.41	J	ND		***915***	RA	***88.9***		24	7
Heptane	ND		ND		ND		ND		ND		ND		ND		ND		NE	2450
cis-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND		25	70
4-Methyl-2-pentanone (MIBK)	0.507	J	ND		1.55	J	1.07	J	0.802	J	0.761	J	0.383	J	ND		NE	10510
trans-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND		16	70
1,1,2-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		6.1	NE
Toluene	2.4	J	0.847	J	0.912	J	1.07	J	4.36		1.54	J	0.879	J	1.87	J	NE	17520
2-Hexanone	ND		0.562	J	0.518	J	ND		ND		0.994	J	1.02	J	ND		NE	110
Chlorodibromomethane	ND		ND		ND		ND		ND		ND		ND		ND		2.7	NE
1,2-Dibromoethane (EDB)	ND		ND		ND		ND		ND		ND		ND		ND		0.16	32
n-Octane	ND		ND		ND		ND		ND		ND		ND		ND		NE	2450
Tetrachloroethene	21.7		6.14	J	252		13.8		22.5		2.1	J	592	RA	179		17	950
Chlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	180
Ethylbenzene	ND		ND		ND		1.07	J	0.879	J	ND		ND		ND		39	3500
m-Xylene & p-Xylene	ND		ND		ND		3.64	J	2.97	J	ND		ND		ND		NE	350
Bromoform	ND		ND		ND		ND		ND		ND		ND		ND		89	NE
Styrene	6.6		0.336	J	ND		ND		6.68		0.658	J	ND		ND		NE	3500
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		ND		ND		ND		ND		1.7	NE
o-Xylene	0.442	J	ND		ND		1.67	J	1.51	J	ND		ND		ND		NE	350
n-Nonane	ND		ND		ND		ND		ND		ND		ND		ND		NE	700
Isopropylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	1400
n-Propylbenzene	ND		ND		ND		2.09	J	ND		ND		ND		ND		NE	3500
1,3,5-Trimethylbenzene	ND		ND		ND		24.3		ND		ND		ND		ND		NE	25
1,2,4-Trimethylbenzene	0.485	J	ND		ND		***83 8***		1.34	J	1.44	J	ND		ND		NE	25
Benzyl chloride	ND		ND		ND		ND		ND		ND		ND		ND		2	3.5
1,3-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		8.9	700
n-Decane	5.24	J	ND		1.76	J	ND		34.9		5.08	J	0.589	J	ND		NE	2450
1,4-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		8.9	2800
1,2-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	700
n-Undecane	4.96	J	ND		0.96	J	ND		44.5		11.8		ND		ND		NE	2450
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		1.44	J, B	ND		ND		NE	7
Naphthalene	2.19	J	0.933	J, B	ND		ND		5.4		4.09	J, B	ND		ND		2.9	11
Hexachlorobutadiene	ND		ND		ND		ND		ND		ND		ND		ND		4.5	NE

Source: Test America, 2011
Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011.
TCE Screening Value derived from US EPA Memoradum dated October 12, 2011 to the General Services Administration, Bannister Federal Complex

Notes:

ug/m^3 = All air concentrations reported in micrograms per cubic meter
J = Indicates analyte not detected above the laboratory reporting limit.
NE = Not Established by the EPA
ND = Chemical was not detected above the laboratory method detection limit
B = Analyte was detected in the Method Blank
RA = Results are from a second analysis of the sample.
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
HQ = Hazard Quotient
Concentration = Indicates identified concentration is greater than site specific cancer screening level
Concentration = Indicates identified concentration is greater than site specific non-cancer screening level
Concentration = Indicates identified concentration is greater than site specific cancer and non-cancer screening levels

Table 2
Analytical Data Summary for Building 4 - Crawlspace Air, Indoor Air, and Outdoor Air Volatile Organic Compounds - 4th Quarter
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B4CS-CS1-VOCs		BCS-CS2-VOCs		B4-IA1-VOCs		B4-IA2-VOCs		B4-Dup-VOCs (B4-IA2-VOCs)		B4-OA1-VOCs		B4-OA2-VOCs		B4-Blank-VOCs		Screening Levels		Maximum Detection	Cancer Risk	Non-Cancer Risk
	Crawlspace Air Samples				Indoor Air Samples				Indoor Air Sample		Outdoor Air Samples						Cancer Risk = 1E-06	Non-Cancer HQ = 0.1			
Sample Date	10/15/2011		10/15/2011		10/15/2011		10/15/2011		10/15/2011		10/15/2011		10/15/2111		10/15/2011						
Chlorodifluoromethane	3.91	J	4.38		3.77		3.79		3.79		2.5	J	2.57	J	ND		NE	17520	4.38	NE	2.50E-05
Dichlorodifluoromethane	2.56	J	2.69	J	2.61	J	2.62	J	2.53	J	2.59	J	2.41	J	ND		NE	70	2.69	NE	3.84E-03
Chloromethane	1.09	J	1.2	J	1.17	J	1.12	J	1.12	J	1.11	J	1.19	J	ND		NE	32	1.2	NE	3.75E-03
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	10512	ND	ND	ND
Vinyl chloride	ND		ND		ND		ND		ND		ND		ND		ND		2.2	35	ND	ND	ND
1,3-Butadiene	ND		0.239	J	ND		ND		ND		0.215	J	ND		ND		0.33	0.7	0.239	7.24E-07	3.41E-02
Butane	9.96		9.77		8.71		8.6		8.57		9.88		6.7		ND		NE	245	9.96	NE	4.07E-03
Bromomethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	1.75	ND	ND	ND
Chloroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	3504	ND	ND	ND
Acetonitrile	ND		ND		ND		ND		ND		ND		ND		ND		NE	21	ND	ND	ND
Trichlorofluoromethane	1.76	J	1.77	J	1.73	J	1.76	J	1.66	J	1.57	J	1.72	J	ND		NE	245	1.77	NE	7.22E-04
Acetone	103	RA,B	114	RA,B	116	B	107	B	106	B	30.2	B	44.3	B	ND		NE	10862	116	NE	1.07E-03
Acrylonitrile	ND		ND		ND		ND		ND		ND		ND		ND		0.14	0.7	ND	ND	ND
n-Pentane	3.91		3.53		3.52		3.56		3.44		3.44		2.58	J	ND		NE	350	3.91	NE	1.12E-03
Diethyl ether*	ND		ND		ND		ND		ND		ND		ND		ND		NE	NE	ND	ND	ND
1,1-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		NE	841	ND	ND	ND
Methylene chloride	0.634	J	0.668	J	0.604	J	0.618	J	0.547	J	0.617	J	0.434	J	ND		21	350	0.668	3.18E-08	1.91E-04
Carbon disulfide	ND		ND		ND		ND		ND		ND		ND		ND		NE	245	ND	ND	ND
Allyl chloride*	ND		ND		ND		ND		ND		ND		ND		ND		NE	NE	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	10512	ND	ND	ND
trans-1,2-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		NE	21	ND	ND	ND
1,1-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		6.1	7008	ND	ND	ND
Methyl tert-Butyl Ether	ND		ND		ND		ND		ND		ND		ND		ND		38	1051	ND	ND	ND
Vinyl acetate	ND		ND		ND		ND		ND		ND		ND		ND		NE	70	ND	ND	ND
2-Butanone (MEK)	1.61	J	1.69	J	1.25	J	1.05	J	1.45	J	0.835	J	0.98	J	ND		NE	1752	1.69	NE	9.65E-05
cis-1,2-Dichloroethene	17.2		17.1		ND		ND		ND		ND		ND		ND		NE	21	17.2	NE	8.19E-02
Hexane	1.72	J	1.92	J	1.49	J	1.37	J	1.38	J	0.971	J	0.75	J	ND		NE	245	1.92	NE	7.84E-04
Chloroform	ND		ND		ND		ND		ND		ND		ND		ND		0.43	34	ND	ND	ND
1,2-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0.38	NE	ND	ND	ND
1,1,1-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		NE	1752	ND	ND	ND
Benzene	2.12	J	2.03	J	1.98	J	2.04	J	1.79	J	2.24	J	1.62	J	ND		1.3	11	2.24	1.72E-06	2.04E-02
Carbon tetrachloride	ND		ND		ND		ND		ND		ND		ND		ND		1.6	35	ND	ND	ND
Cyclohexane	0.808	J	0.799	J	0.735	J	0.776	J	0.699	J	0.759	J	0.508	J	ND		NE	2102	0.808	NE	3.84E-05
1,2-Dichloropropane	ND		ND		ND		ND		ND		ND		ND		ND		0.98	1.4	ND	ND	ND
Bromodichloromethane	ND		ND		ND		ND		ND		ND		ND		ND		0.27	NE	ND	ND	ND
Trichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		2.4	0.7	ND	ND	ND
Heptane	0.569	J	0.633	J	0.608	J	0.631	J	0.508	J	0.639	J	0.43	J	ND		NE	245	0.639	NE	2.61E-04
cis-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND		2.5	7	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND		ND		ND		ND		ND		ND		ND		ND		NE	1051	ND	ND	ND
trans-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND		1.6	7	ND	ND	ND
1,1,2-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0.61	NE	ND	ND	ND
Toluene	158		169		100		81.1		66.5		7.11		5.06		ND		NE	1752	169	NE	9.65E-03
2-Hexanone	ND		ND		ND		ND		ND		ND		ND		ND		NE	11	ND	ND	ND
Chlorodibromomethane	ND		ND		ND		ND		ND		ND		ND		ND		0.27	NE	ND	ND	ND
1,2-Dibromoethane (EDB)	ND		ND		ND		ND		ND		ND		ND		ND		0.016	3.2	ND	ND	ND
n-Octane	ND		ND		ND		ND		ND		ND		ND		ND		NE	245	ND	ND	ND
Tetrachloroethene	ND		ND		ND		ND		ND		ND		ND		ND		1.7	95	ND	ND	ND
Chlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	18	ND	ND	ND
Ethylbenzene	0.773	J	0.722	J	0.743	J	0.775	J	ND		0.75	J	ND		ND		3.9	350	0.775	1.99E-07	2.21E-04
m-Xylene & p-Xylene	1.84	J	1.96	J	1.8	J	1.85	J	ND		1.89	J	ND		ND		NE	35	1.96	NE	5.60E-03
Bromoform	ND		ND		ND		ND		ND		ND		ND		ND		8.9	NE	ND	ND	ND
Styrene	ND		ND		ND		ND		ND		ND		ND		ND		NE	350	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0.17	NE	ND	ND	ND
o-Xylene	0.88	J	0.952	J	0.909	J	0.91	J	ND		0.876	J	ND		ND		NE	35	0.952	NE	2.72E-03
n-Nonane	***220***		***179***		4.03	J	3.16	J	1.47	J	ND		ND		ND		NE	70	220	NE	3.14E-01
Isopropylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	140	ND	ND	ND
n-Propylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	350	ND	ND	ND
1,3,5-Trimethylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	2.5	ND	ND	ND
1,2,4-Trimethylbenzene	ND		ND		ND		ND		ND		0.992	J	ND		ND		NE	2.5	0.992	NE	3.97E-02
Benzyl chloride	ND		ND		ND		ND		ND		ND		ND		ND		0.2	0.35	ND	ND	ND
1,3-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		0.89	70	ND	ND	ND
n-Decane	ND		ND		ND		ND		ND		ND		ND		ND		NE	245	ND	ND	ND
1,4-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		0.89	280	ND	ND	ND
1,2-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	70	ND	ND	ND
n-Undecane	ND		ND		ND		ND		ND		ND		ND		ND		NE	245	ND	ND	ND
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		NE	0.7	ND	ND	ND
Naphthalene	ND		ND		ND		ND		ND		ND		ND		ND		0.29	1.1	ND	ND	ND
Hexachlorobutadiene	ND		ND		ND		ND		ND		ND		ND		ND		0.45	NE	ND	ND	ND
Total Cancer Health Risk (Unitless)	1.86E-06		2.50E-06		1.74E-06		1.80E-06		1.40E-06		2.60E-06		1.27E-06								
Total Non-Cancer Health Risk (Unitless)	4.48E-01		4.24E-01		5.23E-02		5.04E-02		3.65E-02		1.13E-01		2.75E-02								

Source: Test America, 2011
Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011.
TCE Screening Value derived from US EPA Memoradum dated October 12, 2011 to the General

Notes:

ug/m^3 = All air concentrations reported in micrograms per cubic meter
J = Indicates analyte not detected above the laboratory reporting limit.
NE = Not Established by the EPA
ND = Chemical was not detected above the laboratory method detection limit
B = Analyte was detected in the Method Blank
RA = Results are from a second analysis of the sample.
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds
HQ = Hazard Quotient
Concentration = Indicates identified concentration is greater than site specific cancer screening level
Concentration = Indicates identified concentration is greater than site specific non-cancer screening level
Concentration = Indicates identified concentration is greater than site specific cancer and non-cancer screening levels
Cancer Risk = Indicates identified maximum concentration is greater than the cancer risk of 1x10^{6}
Non-Cancer Risk = Indicates identified maximum concentration is greater than the non-cancer risk of 0.1

Table 3
Analytical Data Summary for Building 4 - Crawlspace Volatile Organic Compounds - Short-Term Screening Levels
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B4CS-CS1-VOCs								B4CS-CS2-VOCs								Short-Term Screening Level
	Crawlspace Air Samples																(1-30 days)
Sample Date	1/7/2011		4/16/2011		7/9/2011		10/15/2011		1/7/2011		4/16/2011		7/9/2011		10/15/2011		
Chlorodifluoromethane	17.8		1.62	J	86.6		3.91	J	18.4		1.43	J	88.3		4.38		175200
Dichlorodifluoromethane	2.22	J	2.88	J	2.39	J	2.56	J	2.3	J	2.72	J	2.39	J	2.69	J	700
Chloromethane	0.98	J	1.36	J	0.87	J	1.09	J	0.968	J	1.67	J	0.911	J	1.2	J	414
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND		ND		ND		ND		ND		ND		ND		105120
Vinyl chloride	ND		ND		3.84		ND		ND		ND		4.01		ND		77
1,3-Butadiene	ND		ND		ND		ND		ND		ND		ND		0.239	J	221
Butane	1.57	J	0.782	J	1.79	J	9.96		1.8	J	0.925	J	1.92	J	9.77		2000
Bromomethane	ND		ND		ND		ND		ND		ND		ND		ND		100
Chloroethane	ND		ND		ND		ND		ND		ND		ND		ND		4000
Acetonitrile	ND		0.184	J	ND		ND		ND		ND		ND		ND		210
Trichlorofluoromethane	1.56	J	1.65	J	1.65	J	1.76	J	1.61	J	1.83	J	1.62	J	1.77	J	2450
Acetone	20.8	B	15.6	B	27.1	B	103	RA,B	24.1	B	14.5	B	30.9	B	114	RA,B	30940
Acrylonitrile	ND		ND		ND		ND		ND		ND		ND		ND		217
n-Pentane	22.5		1.24	J	1.44	J	3.91		76.7		0.648	J	1.69	J	3.53		10000
Diethyl ether*	ND		ND		ND		ND		ND		ND		ND		ND		NE
1,1-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		70800
Methylene chloride	ND		0.322	J	0.358	J	0.634	J	ND		0.43	J	0.347	J	0.668	J	1041
Carbon disulfide	ND		ND		ND		ND		ND		ND		ND		ND		2450
Allyl chloride*	ND		ND		ND		ND		ND		ND		ND		ND		NE
1,1,2-Trichlorotrifluoroethane	ND		ND		ND		ND		ND		0.837	J	ND		ND		NE
trans-1,2-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		794
1,1-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		6.1
Methyl tert-Butyl Ether	ND		ND		ND		ND		ND		ND		ND		ND		2555
Vinyl acetate	0.526	J	ND		0.711	J	ND		0.586	J	ND		0.909	J	ND		35.2
2-Butanone (MEK)	1.6	J	1.55	J	2.22	J	1.61	J	2.03	J	1.55	J	2.4	J	1.69	J	17520
cis-1,2-Dichloroethene	14.8		3.13	J	65.2		17.2		13.9		3.51	J	70.6		17.1		794
Hexane	5.05		0.254	J	ND		1.72	J	9.23		ND		ND		1.92	J	2000
Chloroform	ND		ND		ND		ND		ND		ND		ND		ND		244
1,2-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0 38
1,1,1-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		5000
Benzene	0.573	J	0.326	J	0.609	J	2.12	J	0.767	J	0.374	J	0.549	J	2.03	J	80
Carbon tetrachloride	0.714	J	0.583	J	0.822	J	ND		0.704	J	0.632	J	0.834	J	ND		189
Cyclohexane	ND		ND		0.614	J	0.808	J	ND		ND		ND		0.799	J	21020
1,2-Dichloropropane	ND		ND		ND		ND		ND		ND		ND		ND		32
Bromodichloromethane	ND		ND		ND		ND		ND		ND		ND		ND		20
Trichloroethene	ND		ND		1.09	J	ND		ND		ND		1.12	J	ND		537
Heptane	ND		ND		0.485	J	0.569	J	ND		ND		0.589	J	0.633	J	2000
cis-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND		36
4-Methyl-2-pentanone (MIBK)	ND		ND		ND		ND		ND		ND		0.301	J	ND		10510
trans-1,3-Dichloropropene	ND		ND		ND		ND		ND		ND		ND		ND		36
1,1,2-Trichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0 61
Toluene	16		1.36	J	2.09	J	158		23.3		0.992	J	5.93		169		5000
2-Hexanone	ND		0.39	J	0.418	J	ND		ND		0.326	J	0.475	J	ND		110
Chlorodibromomethane	ND		ND		ND		ND		ND		ND		ND		ND		20
1,2-Dibromoethane (EDB)	ND		ND		ND		ND		ND		ND		ND		ND		0.016
n-Octane	ND		ND		0.749	J	ND		0.66	J	ND		0.795	J	ND		2000
Tetrachloroethene	ND		0.879	J	1.08	J	ND		ND		ND		1.16	J	ND		17
Chlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		500
Ethylbenzene	0.646	J	ND		0.679	J	0.773	J	1.05	J	ND		0.806	J	0.722	J	4340
m-Xylene & p-Xylene	ND		ND		2.11	J	1.84	J	ND		ND		2.71	J	1.96	J	2604
Bromoform	ND		ND		ND		ND		ND		ND		ND		ND		8.9
Styrene	15.8		0.942	J	ND		ND		28		ND		ND		ND		8520
1,1,2,2-Tetrachloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0.17
o-Xylene	ND		ND		1.08	J	0.88	J	ND		ND		1.33	J	0.952	J	2604
n-Nonane	133		ND		5.41		220		129		ND		7.18		179		2000
Isopropylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		1400
n-Propylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		3500
1,3,5-Trimethylbenzene	ND		ND		ND		ND		ND		ND		ND		ND		10
1,2,4-Trimethylbenzene	ND		ND		0.736	J	ND		ND		ND		0.785	J	ND		100
Benzyl chloride	ND		ND		ND		ND		ND		ND		ND		ND		4
1,3-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		240
n-Decane	1.09	J	1.19	J	16.4		ND		1.14	J	0.754	J	21.4		ND		2000
1,4-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		240
1,2-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		240
n-Undecane	1.67	J	1.33	J	7.49		ND		0.826	J	3.42	J	9.43		ND		2000
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		20
Naphthalene	ND		ND		ND		ND		ND		ND		ND		ND		2.9
Hexachlorobutadiene	ND		ND		ND		ND		ND		ND		ND		ND		0.45

Source: Test America, 2011
Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011.

Notes:

ug/m^3 = All air concentrations reported in micrograms per cubic meter
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NE = Not Established by the EPA
NA = Not analyzed/Not applicable
ND = Chemical was not detected above the laboratory method detection limit
B = Analyte was deteded in the Method Blank
RA = Results are from a second analysis of the sample.
* = Site Specific Risk-Based Screening Levels Are Not Available for These Compounds

able 4

Analytical Data Summary for Building 4 Crawlspace Air ndoor Air and Outdoor Air Vo atile Organic Compounds All Quarters
General Services Administration Bannister Federal Complex
Kansas City Missouri

Sample I D	B4CS CS1 VOCs				BCS CS2 VOCs				B4 IA1 VOCs				B4 IA2 VOCs			
	Crawlspace Air Samples								Indoor Air Samples							
Sample Date	1/7/2011	/16/2011	7/9/2011	10/15/2011	1/7/2011	/16/2011	7/9/2011	10/15/2011	1/7/2011	/16/2011	7/9/2011	10/15/2011	1/7/2011	/16/2011	7/9/2011	10/15/2011
Chlo od fluo omethane	17.8	1.62 J	86.6	3.91 J	18.4	1.43 J	88.3	4.38	18.8	1.49 J	87.5	3.77	19 8	1.37 J	82.9	3.79
D chlo od fluo omethane	2.22 J	2.88 J	2.39 J	2.56 J	2 3 J	2.72 J	2.39 J	2.69 J	2.21 J	2.87 J	2.5 J	2.61 J	2.31 J	2.67 J	2.38 J	2.62 J
Chlo omethane	0.98 J	1.36 J	0.87 J	1.09 J	0.968 J	1.67 J	0 911 J	1.2 J	0.921 J	1.62 J	0.865 J	1 17 J	0.917 J	1 6 J	0.807 J	1.12 J
1,2-D chlo o-1,1 2,2-tet afluo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
V nyl chlo de	ND	ND	3.84	ND	ND	ND	4.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Butad ene	ND	ND	ND	ND	ND	ND	ND	0.239 J	ND	ND	ND	ND	ND	ND	ND	ND
Butane	1.57 J	0.782 J	1.79 J	9.96	1 8 J	0.925 J	1.92 J	9.77	1.82 J	0.902 J	1.3 J	8 71	1.52 J	0.963 J	1.23 J	8.6
B omomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aceton t le	ND	0.184 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T chlo ofluo omethane	1.56 J	1.65 J	1.65 J	1.76 J	1.61 J	1.83 J	1.62 J	1.77 J	1.49 J	1.73 J	1.71 J	1 73 J	1.61 J	1.68 J	1.72 J	1.76 J
Acetone	20.8 B	15 6 B	27.1 B	103 RA,B	24.1 B	14.5 B	30.9 B	114 RA,B	10.1 B	7.76 B	22.3 B	116 B	9.29 B	7.76 B	18.8 B	107 B
Ac ylon t le	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Pentane	22.5	1.24 J	1.44 J	3.91	76.7	0.648 J	1.69 J	3.53	62.6	0.632 J	0.585 J	3 52	35 5	0.67 J	0.571 J	3.56
D ethyl ethe *	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-D chlo oethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chlo de	ND	0.322 J	0 358 J	0.634 J	ND	0.43 J	0 347 J	0.668 J	ND	0.466 J	0.47 J	0.604 J	ND	0.335 J	0.774 J	0.618 J
Ca bon d sulf de	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A lyl chlo de*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-T chlo ot fluo oethane	ND	ND	ND	ND	ND	0.837 J	ND	ND	ND	0.757 J	ND	ND	ND	0.717 J	ND	ND
t ans-1,2-D chlo oethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-D chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl te t-Butyl Ethe	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
V nyl acetate	0.526 J	ND	0 711 J	ND	0.586 J	ND	0 909 J	ND	ND	ND	2 J	ND	ND	ND	0.515 J	ND
2-Butanone (MEK)	1.6 J	1.55 J	2.22 J	1.61 J	2.03 J	1.55 J	2.4 J	1.69 J	0.923 J	0.696 J	2.08 J	1 25 J	0.798 J	0.797 J	1.75 J	1.05 J
c s-1,2-D chlo oethene	14.8	3.13 J	***65 2***	17.2	13.9	3.51 J	***70 6***	17.1	ND	ND	ND	ND	ND	ND	ND	ND
Hexane	5.05	0.254 J	ND	1.72 J	9.23	ND	ND	1.92 J	7.14	ND	ND	1 49 J	3.99	ND	ND	1.37 J
Chlo ofo m	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-D chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-T chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.573 J	0.326 J	0 609 J	2.12 J	0.767 J	0.374 J	0 549 J	2.03 J	0.609 J	0.308 J	0.597 J	1 98 J	0.404 J	0.28 J	0.522 J	2.04 J
Ca bon tet achlo de	0.714 J	0.583 J	0 822 J	ND	0.704 J	0.632 J	0 834 J	ND	0.654 J	0.59 J	0.932 J	ND	0.636 J	0.564 J	0.791 J	ND
Cyclohexane	ND	ND	0 614 J	0.808 J	ND	ND	ND	0.799 J	ND	ND	0.418 J	0.735 J	ND	ND	ND	0.776 J
1,2-D chlo op opane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B omod chlo omethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T chlo oethene	ND	ND	***1.09*** J	ND	ND	ND	***1.12*** J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	ND	ND	0 485 J	0.569 J	ND	ND	0 589 J	0.633 J	ND	ND	0.376 J	0.608 J	ND	ND	0.372 J	0.631 J
c s-1,3-D chlo op opene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	0 301 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
t ans-1,3-D chlo op opene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-T chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	16	1.36 J	2.09 J	158	23.3	0.992 J	5.93	169	17.6	0.811 J	2.09 J	100	14	0.785 J	1.26 J	81.1
2-Hexanone	ND	0.39 J	0 418 J	ND	ND	0.326 J	0 475 J	ND	ND	0.295 J	ND	ND	ND	ND	ND	ND
Chlo od b omomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-D b omoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Octane	ND	ND	0 749 J	ND	0.66 J	ND	0 795 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tet achlo oethene	ND	0.879 J	1.08 J	ND	ND	ND	1.16 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.97 J	ND
Ethylbenzene	0.646 J	ND	0 679 J	0.773 J	1.05 J	ND	0 806 J	0.722 J	0.567 J	ND	ND	0.743 J	ND	ND	ND	0.775 J
m-Xylene & p-Xylene	ND	ND	2.11 J	1.84 J	ND	ND	2.71 J	1.96 J	ND	ND	ND	1.8 J	ND	ND	ND	1.85 J
B omofo m	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sty ene	15.8	0.942 J	ND	ND	28	ND	ND	ND	12.6	ND	ND	ND	6.92	ND	ND	ND
1,1,2,2-Tet achlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ND	ND	1.08 J	0.88 J	ND	ND	1.33 J	0.952 J	ND	ND	ND	0.909 J	ND	ND	ND	0.91 J
n-Nonane	***133***	ND	5.41	***220***	***129***	ND	7.18	***179***	0.65 J	ND	ND	4 03 J	ND	ND	ND	3.16 J
Isop opylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-P opylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-T methylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-T methylbenzene	ND	ND	0 736 J	ND	ND	ND	0 785 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chlo de	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-D chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.813 J	ND
n-Decane	1.09 J	1.19 J	16.4	ND	1.14 J	0.754 J	21.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-D chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.23 J	ND
1,2-D chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.72 J	ND	ND	ND	5.03 J	ND
n-Undecane	1.67 J	1.33 J	7.49	ND	0.826 J	3.42 J	9.43	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-T chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlo obutad ene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Cance Health R sk (Un tless)	1.05E-06	1.15E-06	4.01E-06	1.86E-06	1 30E-06	7 03E-07	4.14E-06	2.50E-06	1.02E-06	6.28E-07	1.06E-06	1.74E-06	7 08E-07	5 84E-07	4 35E-06	1.80E-06
Total Non-Cance Hea th R sk (Un tless)	2.92E-01	3.64E-02	5.57E-01	4.48E-01	3 05E-01	3 74E-02	5.98E-01	4.24E-01	4.15E-02	1.52E-02	2.50E-02	5.23E-02	2 77E-02	1 45E-02	4 19E-02	5.04E-02

Sample I D	B4 Dup VOCs (B4 IA2 VOCs)				B4 OA1 VOCs				B4 OA2 VOCs				B4 Blank VOCs				Screening Levels		Maximum Detection
	Indoor Air Sample				Outdoor Air Samples												Cancer Risk = 1E 06	Non Cancer HQ = 0 1	
Sample Date	1/7/2011	/16/2011	7/9 2011	10/15/2011	1/7/2011	/16/2011	7/9/2011	10/15/2011	1/7/2011	/16/2011	7/9/2011	10/15/2011	1/7/2011	/15/2011	7 9/2011	10/15/2011			
Chlo od fluo omethane	19.2	1.52 J	83.4	3.79	4.67	0.996 J	1.88 J	2.5 J	1 6 J	1.01 J	1.74 J	2.57 J	ND	ND	ND	ND	NE	17520	88.3
D chlo od fluo omethane	2.27 J	2.78 J	2 47 J	2 53 J	2.46 J	2.81 J	2.35 J	2.59 J	2.16 J	2.81 J	2.32 J	2.41 J	ND	ND	ND	ND	NE	70	2.88
Chlo omethane	0.914 J	1.54 J	0.806 J	1 12 J	0.947 J	1.41 J	1.13 J	1.11 J	0.857 J	1.39 J	0.937 J	1.19 J	ND	ND	ND	ND	NE	32	1.67
1,2-D chlo o-1,1 2,2-tet afluo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	10512	ND
V nyl chlo de	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	35	.01
1,3-Butad ene	ND	ND	ND	ND	ND	ND	ND	0 215 J	ND	ND	ND	ND	ND	ND	ND	ND	0.33	0.7	0.239
Butane	1.66 J	0.911 J	1 27 J	8 57	1.3 J	0.709 J	0.77 J	9.88	1.26 J	0 701 J	0.665 J	6 7	ND	ND	ND	ND	NE	2 5	9.96
B omomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1.75	ND
Chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	350	ND
Aceton t le	ND	ND	ND	ND	ND	ND	ND	ND	ND	0 171 J	ND	ND	ND	ND	ND	ND	NE	21	0.18
T chlo ofluo omethane	1.57 J	1.83 J	1 77 J	1 66 J	1.61 J	1.6 J	1.59 J	1.57 J	1.42 J	1.58 J	1.52 J	1.72 J	ND	ND	ND	ND	NE	2 5	1.83
Acetone	10.4 B	7.74 B	32.9 B	106 B	5.04 B	5.85 B	25.4 B	30.2 B	3.81 B	6.16 B	13.2 B	44.3 B	0.149 ,	0 249 ,	0 172 ,	ND	NE	10862	116
Ac ylon t le	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.7	ND
n-Pentane	37.1	0.617 J	0.565 J	3 44	19.7	0.625 J	0.638 J	3.44	22.2	0 495 J	0.533 J	2.58 J	ND	ND	ND	ND	NE	350	76.7
D ethyl ethe *	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	ND
1,1-D chlo oethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	8 1	ND
Methylene chlo de	0.291 J	0.368 J	0.763 J	0.547 J	ND	0.302 J	ND	0 617 J	ND	0 305 J	ND	0.434 J	ND	ND	ND	ND	21	350	0.77
Ca bon d sulf de	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2 5	ND
A lyl chlo de*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	ND
1,1,2-T chlo ot fluo oethane	ND	0.629 J	ND	ND	ND	0.693 J	ND	ND	ND	0 592 J	ND	ND	ND	ND	ND	ND	NE	10512	0.837
t ans-1,2-D chlo oethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	21	ND
1,1-D chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1	7008	ND
Methyl te t-Butyl Ethe	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38	1051	ND
V nyl acetate	ND	ND	3 19 J	ND	ND	ND	1.46 J	ND	ND	ND	0.588 J	ND	ND	ND	ND	ND	NE	70	3.19
2-Butanone (MEK)	0.757 J	0.743 J	2 42 J	1 45 J	ND	0.767 J	3.4 J	0 835 J	0 5 J	0 772 J	1.61 J	0.98 J	ND	ND	ND	ND	NE	1752	2. 2
c s-1,2-D chlo oethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.36 J	ND	ND	ND	0 174 J	ND	NE	21	70.6
Hexane	4.11	ND	ND	1 38 J	0.437 J	ND	ND	0 971 J	0.522 J	ND	ND	0.75 J	ND	ND	ND	ND	NE	2 5	9.23
Chlo ofo m	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0. 3	3	ND
1,2-D chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	NE	ND
1,1,1-T chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1752	ND
Benzene	0.414 J	0.289 J	0.578 J	1 79 J	0.314 J	0.272 J	0.816 J	2.24 J	0.316 J	0 255 J	0.604 J	1.62 J	ND	ND	ND	ND	1.3	11	2.12
Ca bon tet achlo de	0.704 J	0.62 J	0.924 J	ND	0.47 J	0.621 J	0.938 J	ND	0.685 J	0 643 J	0.824 J	ND	ND	ND	ND	ND	1.6	35	0.932
Cyclohexane	ND	ND	0.558 J	0.699 J	ND	ND	ND	0 759 J	ND	ND	ND	0.508 J	ND	ND	ND	ND	NE	2102	0.808
1,2-D chlo op opane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98	1.	ND
B omod chlo omethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE	ND
T chlo oethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.	0.7	1.12
Heptane	ND	ND	ND	0.508 J	ND	ND	ND	0 639 J	ND	ND	ND	0.43 J	ND	ND	ND	ND	NE	2 5	0.633
c s-1,3-D chlo op opene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	7	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND	1.13 J	ND	ND	ND	0.303 J	ND	ND	ND	ND	ND	NE	1051	0.301
t ans-1,3-D chlo op opene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	7	ND
1,1,2-T chlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	NE	ND
Toluene	14.5	0.798 J	2 11 J	66.5	2.25 J	0.788 J	2.3 J	7.11	2.28 J	0 699 J	1.85 J	5.06	ND	ND	ND	ND	NE	1752	169
2-Hexanone	ND	ND	0.305 J	ND	ND	ND	0.443 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	11	0. 75
Chlo od b omomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	NE	ND
1,2-D b omoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.016	3.2	ND
n-Octane	ND	ND	ND	ND	ND	ND	0.761 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2 5	0.795
Tet achlo oethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	95	1.16
Chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	18	2.97
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	0.75 J	ND	ND	ND	ND	ND	ND	ND	ND	3.9	350	1.05
m-Xylene & p-Xylene	ND	ND	ND	ND	ND	ND	ND	1.89 J	ND	ND	ND	ND	ND	ND	ND	ND	NE	35	2.71
B omofo m	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9	NE	ND
Sty ene	6.78	ND	ND	ND	0.683 J	ND	ND	ND	0.808 J	ND	ND	ND	ND	ND	ND	ND	NE	350	28
1,1,2,2-Tet achlo oethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	NE	ND
o-Xylene	ND	ND	ND	ND	ND	ND	ND	0 876 J	ND	ND	ND	ND	ND	ND	ND	ND	NE	35	1.33
n-Nonane	ND	ND	ND	1 47 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70	220
Isop opylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	1 0	ND
n-P opylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	350	ND
1,3,5-T methylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2.5	ND
1,2,4-T methylbenzene	ND	ND	0.366 J	ND	ND	ND	0.503 J	0 992 J	ND	ND	0.359 J	ND	ND	ND	ND	ND	NE	2.5	0.785
Benzyl chlo de	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.35	ND
1,3-D chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	70	0.813
n-Decane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2 5	21.
1,4-D chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	280	2.23
1,2-D chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	70	5.03
n-Undecane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	2 5	9. 3
1,2,4-T chlo obenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	0.7	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	1.1	ND
Hexachlo obutad ene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0. 5	NE	ND
Total Cance Health R sk (Un tless)	7.72E-07	6.27E-07	1.06E-06	1.40E-06	5.35E-07	6.12E-07	1.21E-06	2.60E-06	6.71E-07	6 13E-07	9.80E-07	1.27E-06							
Total Non-Cance Hea th R sk (Un tless)	2.86E-02	1.48E-02	3.86E-02	3.65E-02	1.81E-02	1.40E-02	4.54E-02	1.13E-01	1.87E-02	1 46E-02	4.67E-02	2.75E-02							

Source: Test Amer ca, 2011
Sceening Values derived from US Environmental Pro ection Agency (USEPA) Memorandum: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 2 , 2011.
TCE Screening Value derived from US EPA Memoradum dated October 12, 2011 to the General Services Administrat on, Bann ster Federal Complex

Notes:

ug/m³ = All air concentrat ons reported in m crograms per cubic me er
J = Indicates analyte not detected above the laboratory reporting limit.
NE = Not Established by the EPA
ND = Chem cal was not detected above the aboratory method detection lim t
B = Analyte was detected in the Method Blank
RA = Resu ts are from a second analys s of the sample.
* = Site Specif c R sk-Based Screening Leve s Are Not Available for These Compounds
HQ = Hazard Quot ent
Concentration = Indicates identified concentration s greater than s te specific cancer screening level
C n ntr ti n = Indicates identified concentration s greater than s te specific non-cancer screening level
Concentration = Indicates identified concentration s greater than s te specific cancer and non-cancer screening levels
Cancer R sk = Indicates identified maximum concentrat on is greater than the cancer risk of $1x10^{-6}$
Non-Cancer R sk = Indicates identified maximum concentrat on is greater than the non-cancer risk of 0.1

Table 5
Analytical Data Summary for Building 4 - Sub-Slab and Crawlspace PCBs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B4CS-SS1-PCBs		B4CS-SS2-PCBs		SS-Blank-PCBs (ug)		B4CS-CS1-PCBs		B4CS-CS2-PCBs		Screening Levels	
Sample Date	10/15/2011		10/15/2011		10/15/2011		10/16/2011		10/16/2011		**Cancer Risk = 1E-06**	**Non-Cancer HQ = 0.1**
Dioxin-Like PCBs	**Sub-Slab Air Samples**						**Crawlspace Air Samples**					
PCB 81	ND		ND		ND		ND		ND		8.6E-03	NE
PCB 77	ND		ND		ND		1.25E-05		9.92E-06		2.6E-02	NE
PCB 123	ND		ND		ND		ND		ND		8.6E-02	NE
PCB 118	5.13E-06	J	ND		3.13E-05	JK	9.62E-05		9.19E-05		8.6E-02	NE
PCB 114	ND		ND		ND		2.71E-06	JK	ND		8.6E-02	NE
PCB 105	ND		ND		ND		3.48E-05		2.45E-05		8.6E-02	NE
PCB 126	ND		ND		ND		ND		ND		2.6E-05	NE
PCB 167	ND		ND		ND		3.34E-06	J	2.85E-06	J	8.6E-02	NE
PCBs 156 + 157	ND		ND		ND		7.09E-06	K	6.81E-06	J	8.6E-02	NE
PCB 169	ND		ND		ND		ND		ND		8.6E-05	NE
PCB 189	ND		ND		ND		ND		ND		8.6E-02	NE
All Other PCBs	4.16E-04	-	3.73E-04	-	3.49E-04	-	1.19E-02	-	1.19E-02	-	1.7E-01	NE

Source: Columbia Analytical Services, 2011
Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandun: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011

Notes:

ug/m^3 All concentrations in micrograms per cubic meter
ND = Not detected above the laboratory reporting limit.
B = Indicates the associated analyte is found in the method blank, as well as in the sample
J = Indicates when the analyte concentration is below the method reporting limit and above the estimated detection limit
K = When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag.
A 'K' Flag indicates an estimated maximum possible concentration for the associated compound.

Table 6
Analytical Data Summary for Building 4 - Sub-Slab and Crawlspace PCBs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B4CS-SS1-PCBs				B4CS-SS2-PCBs				SS-Blank-PCBs (ug)				B4CS-CS1-PCBs				B4CS-CS2-PCBs				Screening Levels	
Sample Date	1/9/2011		10/15/2011		1/9/2011		10/15/2011		1/9/2011		10/15/2011		1/10/2011		10/16/2011		1/10/2011		10/16/2011		**Cancer Risk = 1E-06**	**Non-Cancer HQ = 0.1**
Dioxin-Like PCBs	**Sub-Slab Air Samples**								**Blanks**				**Crawlspace Air Samples**									
PCB 81	ND		ND		ND		ND		ND		ND		4.34E-07	J	ND		4.34E-07	J	ND		8.6E-03	NE
PCB 77	ND		ND		ND		ND		ND		ND		6.76E-06		1.25E-05		7.05E-06		9.92E-06		2.6E-02	NE
PCB 123	ND		ND		ND		ND		ND		ND		7.91E-07	J	ND		9.10E-07	J	ND		8.6E-02	NE
PCB 118	3.04E-05	BJ	5.13E-06	J	2.07E-05	BJ	ND		8.61E-05	BJK	3.13E-05	JK	4.24E-05	B	9.62E-05		4.52E-05	B	9.19E-05		8.6E-02	NE
PCB 114	ND		ND		ND		ND		ND		ND		1.24E-06	J	2.71E-06	JK	1.37E-06	J	ND		8.6E-02	NE
PCB 105	1.28E-05	BJ	ND		6.93E-06	BJK	ND		4.57E-05	BJK	ND		1.34E-05	B	3.48E-05		1.39E-05	B	2.45E-05		8.6E-02	NE
PCB 126	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		2.6E-05	NE
PCB 167	ND		ND		ND		ND		ND		ND		1.58E-06	J	3.34E-06	J	1.86E-06	J	2.85E-06	J	8.6E-02	NE
PCBs 156 + 157	ND		ND		ND		ND		ND		ND		3.35E-06	BJ	7.09E-06	K	3.79E-06	BJ	6.81E-06	J	8.6E-02	NE
PCB 169	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		8.6E-05	NE
PCB 189	ND		ND		ND		ND		ND		ND		1.99E-07	J	ND		2.66E-07	JK	ND		8.6E-02	NE
All Other PCBs	2.90E-03	-	4.16E-04	-	1.63E-03	-	3.73E-04		1.05E-02	-	3.49E-04	-	6.93E-03	-	1.19E-02	-	7.71E-03	-	1.19E-02	-	1.7E-01	NE

Source: Columbia Analytical Services, 2011

Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandun: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011

Notes:

ug/m^3 All concentrations in micrograms per cubic meter
ND = Not detected above the laboratory reporting limit.
B = Indicates the associated analyte is found in the method blank, as well as in the sample
J = Indicates when the analyte concentration is below the method reporting limit and above the estimated detection limit
K = When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag.
A 'K' Flag indicates an estimated maximum possible concentration for the associated compound.

Table 7
Analytical Data Summary for Building 4 - Indoor and Outdoor Air - PCBs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B4CS-IA1-PCBs		B4CS-IA2-PCBs		B4-Dup-PCBs (B4CS-IA2-PCBs)		B4-OA1-PBCs		B4-OA2-PBCs		Blank-PCBs (ug)		Screening Levels		Maximum Detection	Cancer Risk
Sample Date	10/16/2011		10/16/2011		10/16/2011		10/16/2011		10/16/2011		10/16/2011		**Cancer Risk = 1E-06**	**Non-Cancer HQ = 0.1**		
Dioxin-Like PCBs	**Indoor Air Samples**						**Outdoor Air Sample**				**Blank**					
PCB 81	ND		ND		2.83E-06	JK	ND		ND		ND		8.61E-04	NE	2.83E-06	3.29E-09
PCB 77	3.16E-06	JK	2.18E-06	JK	7.02E-06		3.88E-07	J	ND		ND		2.58E-03	NE	7.02E-06	2.72E-09
PCB 123	ND		ND		2.14E-06	J	ND		ND		ND		8.61E-03	NE	2.14E-06	2.48E-10
PCB 118	1.69E-05		1.94E-05		2.04E-05		4.27E-06	J	1.20E-05		ND		8.61E-03	NE	2.04E-05	2.36E-09
PCB 114	ND		ND		1.27E-06	JK	ND		ND		ND		8.61E-03	NE	1.27E-06	1.48E-10
PCB 105	5.42E-06		5.60E-06		6.44E-06		1.09E-06	JK	4.54E-06		ND		8.61E-03	NE	6.44E-06	7.48E-10
PCB 126	ND		ND		3.66E-06	JK	ND		ND		ND		2.58E-06	NE	3.66E-06	1.42E-06
PCB 167	ND		ND		1.60E-06	J	ND		2.67E-07	JK	ND		8.61E-03	NE	1.60E-06	1.85E-10
PCBs 156 + 157	ND		6.42E-07	J	5.36E-06	J	1.72E-07	JK	8.23E-07	J	ND		8.61E-03	NE	5.36E-06	6.22E-10
PCB 169	ND		ND		2.62E-06	JK	ND		ND		ND		8.61E-06	NE	2.62E-06	3.04E-07
PCB 189	ND		ND		ND		ND		ND		ND		8.61E-03	NE	ND	ND
All Other PCBs	6.12E-03	-	4.72E-03	-	5.37E-03	-	1.96E-04	-	2.12E-04	-	9.33E-04	-	1.72E-02	NE	6.12E-03	3.56E-07
Calculated Total Risk (Unitless)	3.60E-07	-	2.78E-07	-	2.05E-06	-	1.22E-08	-	1.43E-08	-	-	-	-	-	-	-
														Cumulitive Risk (Unitless)		**1.73E-06**

Source: Columbia Analytical Services, 2011

Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandun: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011

Notes:

ug/m^3	All concentrations in micrograms per cubic meter
ND =	Not detected above the laboratory reporting limit.
B =	Indicates the associated analyte is found in the method blank, as well as in the sample
J =	Indicates when the analyte concentration is below the method reporting limit and above the estimated detection limit
K =	When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' Flag indicates an estimated maximum possible concentration for the associated compound.
Concentration =	Indicates identified concentration is greater than site specific Cancer RSL
Cancer Risk =	Indicates identified maximum concentration is greater than the cancer risk of $1x10^{-6}$
Total Risk =	Indicates identified calculated total risk greater than 1×10^{-6}

Table 8
Analytical Data Summary for Building 4 - Indoor and Outdoor Air - PCBs
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B4-IA1-PCBs		B4-IA2-PCBs		B4-Dup-PCBs (B4-IA2-PCBs)		B4-OA1-PBCs		B4-OA2-PBCs		Blank-PCBs (ug)		Screening Levels		Maximum Detection	Cancer Risk
Sample Date	1/10/2011	10/16/2011	1/10/2011	10/16/2011	1/10/2011	10/16/2011	1/10/2011	10/16/2011	1/10/2011	10/16/2011	1/10/2011	10/16/2011	**Cancer Risk = 1E-06**	**Non-Cancer HQ = 0.1**		
Dioxin-Like PCBs	**Indoor Air Samples**						**Outdoor Air Samples**				**Blanks**					
PCB 81	ND	ND	1.26E-07 J	ND	1.43E-07 J	2.83E-06 JK	ND	ND	ND	ND	ND	ND	8.61E-04	NE	2.83E-06	3.29E-09
PCB 77	1.15E-06 J	3.16E-06 JK	1.24E-06 J	2.18E-06 JK	1.29E-06 J	7.02E-06	9.76E-08 J	3.88E-07 J	7.77E-08 J	ND	ND	ND	2.58E-03	NE	7.02E-06	2.72E-09
PCB 123	ND	ND	ND	ND	1.78E-07 JK	2.14E-06 J	ND	ND	ND	ND	ND	ND	8.61E-03	NE	2.14E-06	2.48E-10
PCB 118	6.06E-06 BJ	1.69E-05	6.68E-06 BJ	1.94E-05	7.05E-06 B	2.04E-05	1.05E-06 BJ	4.27E-06 J	1.10E-06 BJ	1.20E-05	1.03E-04 BJ	ND	8.61E-03	NE	1.03E-04	1.20E-08
PCB 114	2.61E-07 J	ND	2.97E-07 J	ND	2.51E-07 JK	1.27E-06 JK	ND	ND	ND	ND	ND	ND	8.61E-03	NE	1.27E-06	1.48E-10
PCB 105	1.95E-06 BJ	5.42E-06	2.16E-06 BJ	5.60E-06	2.21E-06 BJ	6.44E-06	3.83E-07 BJ	1.09E-06 JK	4.22E-07 BJ	4.54E-06	ND	ND	8.61E-03	NE	6.44E-06	7.48E-10
PCB 126	ND	ND	ND	ND	ND	3.66E-06 JK	ND	ND	ND	ND	ND	ND	2.58E-06	NE	3.66E-06	1.42E-06
PCB 167	9.50E-08 J	ND	1.25E-07 J	ND	1.11E-07 JK	1.60E-06 J	ND	ND	ND	2.67E-07 JK	ND	ND	8.61E-03	NE	1.60E-06	1.85E-10
PCBs 156 + 157	2.26E-07 BJ	ND	3.24E-07 BJ	6.42E-07 J	3.26E-07 BJ	5.36E-06 J	1.12E-07 BJK	1.72E-07 JK	1.52E-07 BJ	8.23E-07 J	ND	ND	8.61E-03	NE	5.36E-06	6.22E-10
PCB 169	ND	ND	ND	ND	ND	2.62E-06 JK	ND	ND	ND	ND	ND	ND	8.61E-06	NE	2.62E-06	3.04E-07
PCB 189	ND	ND	ND	ND	2.98E-08 J	ND	ND	ND	ND	ND	ND	ND	8.61E-03	NE	2.98E-08	3.47E-12
All Other PCBs	2.55E-03 -	6.12E-03 -	2.61E-03 -	4.72E-03 -	2.73E-03 -	5.37E-03 -	1.44E-04 -	1.96E-04 -	2.06E-04 -	2.12E-04 -	4.78E-03 -	9.33E-04 -	1.72E-02	NE	6.12E-03	3.56E-07
Calculated Total Risk (Unitless)	1.49E-07 -	3.60E-07 -	1.53E-07 -	2.78E-07 -	1.61E-07 -	2.05E-06 -	8.61E-09 -	1.22E-08 -	1.22E-08 -	1.43E-08 -	- -	- -	-	-	-	-
														Cumulitive Risk		**1.74E-06**

Source: Columbia Analytical Services, 2011

Sceening Values derived from US Environmental Protection Agency (USEPA) Memorandun: Vapor Intrusion Sampling-Fourth Round - VOCs and PCBs, GSA Buildings 50 and 52, Kansas City, Missouri dated March 24, 2011

Notes:

ug/m^3 All concentrations in micrograms per cubic meter
ND = Not detected above the laboratory reporting limit.
B = Indicates the associated analyte is found in the method blank, as well as in the sample
J = Indicates when the analyte concentration is below the method reporting limit and above the estimated detection limit
K = When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' Flag indicates an estimated maximum possible concentration for the associated compound.
Concentration = Indicates identified concentration is greater than site specific Cancer RSL
Cancer Risk = Indicates identified maximum concentration is greater than the cancer risk of $1x10^{-6}$
Total Risk = Indicates identified calculated total risk greater than 1×10^{-6}

Table 9
Combined Risk Summary for Building 4 - Indoor and Outdoor Air
General Services Administration Bannister Federal Complex
Kansas City, Missouri

Sample I.D.	B4-IA1	B4-IA2	B4-Dup (B4-IA2)	B4-OA1	B4-OA2
	Indoor Air Samples			Outdoor Air Samples	
VOC Cancer Risk (Unitless)	1.74E-06	1.80E-06	1.40E-06	2.60E-06	1.27E-06
PCB Cancer Risk (Unitless)	3.60E-07	2.78E-07	2.05E-06	1 22E-08	1.43E-08
Combined Cancer Risk (Unitless)	2.10E-06	2.08E-06	3.45E-06	2.61E-06	1.28E-06

Source: Test America, 2011
Data used to calculated risk values are associated with Tables 1-8 of this report.

Table 10
Quality Control Data - Duplicate Air Sample Comparison - VOCs
Bannister Complex - Building 4
Terracon Project No. 02107144

Sample I.D.	B4-IA2-VOCs	B4-Dup-VOCs (B4-IA2-VOCs)	RPD (%)
Sample Date	10/15/2011	10/15/2011	
Chlorodifluoromethane	3.79	3.79	0.00%
Dichlorodifluoromethane	2.62	2.53	3.50%
Chloromethane	1.12	1.12	0.00%
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	NC
Vinyl chloride	ND	ND	NC
1,3-Butadiene	ND	ND	NC
Butane	8.6	8.57	0.35%
Bromomethane	ND	ND	NC
Chloroethane	ND	ND	NC
Acetonitrile	ND	ND	NC
Trichlorofluoromethane	1.76	1.66	5.85%
Acetone	107	106	0.94%
Acrylonitrile	ND	ND	NC
n-Pentane	3.56	3.44	3.43%
Diethyl ether	ND	ND	NC
1,1-Dichloroethene	ND	ND	NC
Methylene chloride	0.618	0.547	12.19%
Carbon disulfide	ND	ND	NC
Allyl chloride	ND	ND	NC
1,1,2-Trichlorotrifluoroethane	ND	ND	NC
trans-1,2-Dichloroethene	ND	ND	NC
1,1-Dichloroethane	ND	ND	NC
Methyl tert-Butyl Ether	ND	ND	NC
Vinyl acetate	ND	ND	NC
2-Butanone (MEK)	1.05	1.45	32.00%
cis-1,2-Dichloroethene	ND	ND	NC
Hexane	1.37	1.38	0.73%
Chloroform	ND	ND	NC
1,2-Dichloroethane	ND	ND	NC
1,1,1-Trichloroethane	ND	ND	NC
Benzene	2.04	1.79	13.05%
Carbon tetrachloride	ND	ND	NC
Cyclohexane	0.776	0.699	10.44%
1,2-Dichloropropane	ND	ND	NC
Bromodichloromethane	ND	ND	NC
Trichloroethene	ND	ND	NC
Heptane	0.631	0.508	21.60%
cis-1,3-Dichloropropene	ND	ND	NC
4-Methyl-2-pentanone (MIBK)	ND	ND	NC
trans-1,3-Dichloropropene	ND	ND	NC
1,1,2-Trichloroethane	ND	ND	NC
Toluene	81.1	66.5	19.78%
2-Hexanone	ND	ND	NC
Chlorodibromomethane	ND	ND	NC
1,2-Dibromoethane (EDB)	ND	ND	NC
n-Octane	ND	ND	NC
Tetrachloroethene	ND	ND	NC
Chlorobenzene	ND	ND	NC
Ethylbenzene	0.775	ND	NC
m-Xylene & p-Xylene	1.85	ND	NC
Bromoform	ND	ND	NC
Styrene	ND	ND	NC
1,1,2,2-Tetrachloroethane	ND	ND	NC
o-Xylene	0.91	ND	NC
n-Nonane	3.16	1.47	73.00%
Isopropylbenzene	ND	ND	NC
n-Propylbenzene	ND	ND	NC
1,3,5-Trimethylbenzene	ND	ND	NC
1,2,4-Trimethylbenzene	ND	ND	NC
Benzyl chloride	ND	ND	NC
1,3-Dichlorobenzene	ND	ND	NC
n-Decane	ND	ND	NC
1,4-Dichlorobenzene	ND	ND	NC
1,2-Dichlorobenzene	ND	ND	NC
n-Undecane	ND	ND	NC
1,2,4-Trichlorobenzene	ND	ND	NC
Naphthalene	ND	ND	NC
Hexachlorobutadiene	ND	ND	NC

All concentrations provided in micrograms per cubic meter

RPD = Relative percent difference

NC = RPD not calculable due to concentrations below reporting limits

Shading = RPD above the project-specific goal of 20%

ND= Not detected above the laboratory method detection limit

Table 11
Quality Control Data - Duplicate Air Sample Comparison - PCBs
Bannister Complex - Building 4
Terracon Project No. 02107144

Sample I.D.	B4CS-IA2-PCBs	B4-Dup-PCBs (B4CS-IA2-PCBs)	RPD (%)
Sample Date	10/16/2011	10/16/2011	
Dioxin-Like PCBs			
PCB 81	ND	1.43E-07	NC
PCB 77	2.18E-06	1.29E-06	51.12%
PCB 123	ND	1.78E-07	NC
PCB 118	1.94E-05	7.05E-06	93.25%
PCB 114	ND	2.51E-07	NC
PCB 105	5.60E-06	2.21E-06	86.71%
PCB 126	ND	ND	NC
PCB 167	ND	1.11E-07	NC
PCBs 156 + 157	6.42E-07	3.26E-07	65.44%
PCB 169	ND	ND	NC
PCB 189	ND	2.98E-08	NC
All Other PCBs	4.72E-03	2.73E-03	53.33%

All concentrations provided in micrograms per cubic meter

RPD = Relative percent difference

NC = RPD not calculable due to concentrations below reporting limits

Shading = RPD above the project-specific goal of 20%

APPENDIX E

Laboratory Analytical Reports

♦ **Data Package Contents** **AUJ0241**

Report Copy(s)
- Chain of Custody
- Dilution Data (if applicable)

Initial Calibration Data
- Tune
- Quantitation Report
- Chromatogram

Data by Analytical Batch(s)
- Sequence of Analytical Batch
- Tune Tabulation
- Continuing Calibration Data
  - Quantitation Report
  - Chromatogram
- Laboratory Control Sample Data
  - Quantitation Report
  - Chromatogram
- Blank Data
  - Quantitation Report
  - Chromatogram
  - TICs (if applicable)
- Result Data in Analytical Batch Order
  - Quantitation Report
  - Chromatogram
  - TICs (if applicable)

Report Copy (s)

Analytical Report

Work Order: AUJ0241

Project Description

Bannister Complex

For:

Wil W. King

Terracon Consulting Eng. & Scientists-Lenexa

13910 W 96th Terrace

Lenexa, KS 66215

Dane Wacasey

Project Manager

Dane.Wacasey@testamericainc.com

Tuesday, November 15, 2011

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Persuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]	Received: Reported:	10/19/11 08:30 11/15/11 15:07

November 15, 2011

LABORATORY REPORT

Client:
Terracon Consulting Eng. & Scientists-Lenexa
13910 W 96th Terrace
Lenexa, KS 66215
Attn: Wil W. King

Work Order:	AUJ0241
Project Name:	Bannister Complex
Project Number:	[none]
Date Received:	10/19/11

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody, 7 pages, are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 512-244-0855.

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

This report contains results for the samples received under chain-of-custody by TestAmerica Laboratories, Inc. 10/19/2011.

These samples are associated with your **Bannister Complex** project.

All samples were received in good condition and within temperature requirements.

All applicable quality control procedures met method specified acceptance criteria except where flagged on the result pages or noted in the case narrative.

If you should have any questions, please feel free to contact me at
dane.wacasey@testamericainc.com or (512) 310-5284.

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.
EPA TO-12: Samples not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]	Received: Reported:	10/19/11 08:30 11/15/11 15:07

Approved By:

Dane Wacasey
Project Manager

NELAP Certification # T104704217-10-6

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION	MATRIX	CONTAINER TYPE
B4-BLANK-VOCS	AUJ0241-01	10/15/11 00:00	Air	Passivated Canister
B4-DUP-VOCS	AUJ0241-02	10/15/11 19:54	Air	Passivated Canister
B4-0A1-VOCS	AUJ0241-03	10/15/11 16:21	Air	Passivated Canister
B4-0A2-VOCS	AUJ0241-04	10/15/11 19:59	Air	Passivated Canister
B4CS-SS1-VOCS	AUJ0241-05	10/15/11 19:10	Air	Passivated Canister
B4CS-SS2-VOCS	AUJ0241-06	10/15/11 19:30	Air	Passivated Canister
B4CS-CS1-VOCS	AUJ0241-07	10/15/11 16:34	Air	Passivated Canister
B4CS-CS2-VOCS	AUJ0241-08	10/15/11 19:51	Air	Passivated Canister
B4-IA1-VOCS	AUJ0241-09	10/15/11 19:53	Air	Passivated Canister
B4-IA2-VOCS	AUJ0241-10	10/15/11 19:54	Air	Passivated Canister

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

ANALYTICAL REPORT

Sample ID: AUJ0241-01 (B4-BLANK-VOCS - Air) **Sampled: 10/15/11**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	ND		ug/m³ Air	0 269	3 08	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	ND		ug/m³ Air	0 504	4 30	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Chloromethane	ND		ug/m³ Air	0 129	1 80	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2 24	6 08	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 323	2 22	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,3-Butadiene	ND		ug/m³ Air	0 183	1 93	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Butane	ND		ug/m³ Air	0 189	2 07	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 536	3 38	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 285	2 30	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Acetonitrile	ND		ug/m³ Air	0 0942	1 46	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Trichlorofluoromethane	ND		ug/m³ Air	0 347	4 89	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Acetone	ND		ug/m³ Air	0 153	2 07	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Acrylonitrile	ND		ug/m³ Air	0 242	1 89	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
n-Pentane	ND		ug/m³ Air	0 172	2 57	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 210	2 64	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 207	3 45	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Methylene chloride	ND		ug/m³ Air	0 277	3 02	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 608	2 71	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 415	2 72	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0 877	6 67	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 443	3 45	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 349	3 52	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 344	3 14	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Vinyl acetate	ND		ug/m³ Air	0 601	3 06	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
2-Butanone (MEK)	ND		ug/m³ Air	0 341	2 57	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 312	3 45	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Hexane	ND		ug/m³ Air	0 336	3 07	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 351	4 25	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 245	3 52	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 461	4 75	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Benzene	ND		ug/m³ Air	0 291	2 78	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	1 49	5 48	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Cyclohexane	ND		ug/m³ Air	0 371	3 00	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 320	4 02	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 37	5 83	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Trichloroethene	ND		ug/m³ Air	0 316	4 68	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Heptane	ND		ug/m³ Air	0 292	3 57	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 417	3 95	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 677	3 57	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 594	3 95	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

ANALYTICAL REPORT

Sample ID: AUJ0241-01 (B4-BLANK-VOCS - Air) - cont. **Sampled: 10/15/11**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0 480	4 75	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Toluene	ND		ug/m³ Air	0 253	3 28	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	0 909	3 57	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	1 81	7 41	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 669	6 69	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 417	4 07	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Tetrachloroethene	ND		ug/m³ Air	0 493	5 90	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 290	4 01	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Ethylbenzene	ND		ug/m³ Air	0 529	3 78	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	ND		ug/m³ Air	1 16	7 56	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 31	9 00	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 432	3 71	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	1 93	5 97	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
o-Xylene	ND		ug/m³ Air	0 582	3 78	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
n-Nonane	ND		ug/m³ Air	0 651	4 57	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 552	4 28	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	0 862	4 28	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 704	4 28	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 789	4 28	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 660	4 51	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 37	5 23	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	0 866	5 06	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 12	5 23	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	1 74	5 23	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 698	5 56	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 749	6 46	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	0 958	4 56	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	1 44	9 28	4 35	11/08/11 19:43	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*97 %*						11/08/11 19:43	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*85 %*						11/08/11 19:43	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*110 %*						11/08/11 19:43	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*92 %*						11/08/11 19:43	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*90 %*						11/08/11 19:43	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Sample ID: AUJ0241-02 (B4-DUP-VOCS - Air) **Sampled: 10/15/11 19:54**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**3.79**		ug/m³ Air	0 325	3 71	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	**2.53**	J	ug/m³ Air	0 608	5 19	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Chloromethane	**1.12**	J	ug/m³ Air	0 156	2 17	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2 70	7 34	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 389	2 68	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,3-Butadiene	ND		ug/m³ Air	0 221	2 32	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Butane	**8.57**		ug/m³ Air	0 228	2 50	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 646	4 08	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 344	2 77	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Acetonitrile	ND		ug/m³ Air	0 114	1 76	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Trichlorofluoromethane	**1.66**	J	ug/m³ Air	0 419	5 90	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Acetone	**106**	B	ug/m³ Air	0 185	2 49	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Acrylonitrile	ND		ug/m³ Air	0 292	2 28	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
n-Pentane	**3.44**		ug/m³ Air	0 208	3 10	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 253	3 18	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 250	4 16	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Methylene chloride	**0 547**	J	ug/m³ Air	0 334	3 65	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 734	3 27	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 501	3 29	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1 06	8 05	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 535	4 16	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 421	4 25	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 415	3 79	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Vinyl acetate	ND		ug/m³ Air	0 725	3 70	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
2-Butanone (MEK)	**1.45**	J	ug/m³ Air	0 412	3 10	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 377	4 16	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Hexane	**1.38**	J	ug/m³ Air	0 405	3 70	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 423	5 13	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 295	4 25	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 556	5 73	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Benzene	**1.79**	J	ug/m³ Air	0 351	3 35	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	1 80	6 61	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Cyclohexane	**0.699**	J	ug/m³ Air	0 448	3 61	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 386	4 85	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 65	7 04	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Trichloroethene	ND		ug/m³ Air	0 381	5 64	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Heptane	**0 508**	J	ug/m³ Air	0 353	4 30	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 503	4 77	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 817	4 30	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 717	4 77	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Sample ID: AUJ0241-02 (B4-DUP-VOCS - Air) - cont. **Sampled: 10/15/11 19:54**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0 579	5 73	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Toluene	**66.5**		ug/m³ Air	0 305	3 96	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	1 10	4 30	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	2 19	8 95	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 807	8 07	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 503	4 91	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Tetrachloroethene	ND		ug/m³ Air	0 595	7 12	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 350	4 83	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Ethylbenzene	ND		ug/m³ Air	0 638	4 56	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	ND		ug/m³ Air	1 40	9 12	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 58	10 9	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 521	4 47	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2 33	7 21	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
o-Xylene	ND		ug/m³ Air	0 702	4 56	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
n-Nonane	**1.47**	J	ug/m³ Air	0 785	5 51	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 666	5 16	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	1 04	5 16	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 849	5 16	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 952	5 16	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 796	5 44	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 65	6 31	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	1 04	6 11	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 35	6 31	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	2 10	6 31	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 842	6 71	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 904	7 79	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	1 16	5 50	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	1 74	11 2	5 25	11/08/11 20:43	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*101 %*						11/08/11 20:43	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*91 %*						11/08/11 20:43	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*109 %*						11/08/11 20:43	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*103 %*						11/08/11 20:43	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*96 %*						11/08/11 20:43	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUJ0241-03 (B4-0A1-VOCS - Air)							**Sampled: 10/15/11 16:21**			
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	**2.50**	J	ug/m³ Air	0 289	3 30	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	**2.59**	J	ug/m³ Air	0 541	4 62	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Chloromethane	**1.11**	J	ug/m³ Air	0 139	1 93	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2 40	6 53	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 346	2 39	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,3-Butadiene	**0.215**	J	ug/m³ Air	0 196	2 07	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Butane	**9.88**		ug/m³ Air	0 203	2 22	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 575	3 63	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 306	2 47	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Acetonitrile	ND		ug/m³ Air	0 101	1 57	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Trichlorofluoromethane	**1.57**	J	ug/m³ Air	0 373	5 25	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Acetone	**30.2**	B	ug/m³ Air	0 164	2 22	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Acrylonitrile	ND		ug/m³ Air	0 260	2 03	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
n-Pentane	**3.44**		ug/m³ Air	0 185	2 76	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 225	2 83	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 222	3 70	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Methylene chloride	**0.617**	J	ug/m³ Air	0 297	3 25	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 653	2 91	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 446	2 92	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0 942	7 16	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 476	3 70	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 374	3 78	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 369	3 37	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Vinyl acetate	ND		ug/m³ Air	0 645	3 29	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
2-Butanone (MEK)	**0 835**	J	ug/m³ Air	0 366	2 76	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 335	3 70	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Hexane	**0 971**	J	ug/m³ Air	0 361	3 29	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 376	4 56	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 263	3 78	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 494	5 10	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Benzene	**2.24**	J	ug/m³ Air	0 312	2 98	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	1 60	5 88	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Cyclohexane	**0.759**	J	ug/m³ Air	0 399	3 22	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 343	4 32	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 47	6 26	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Trichloroethene	ND		ug/m³ Air	0 339	5 02	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Heptane	**0.639**	J	ug/m³ Air	0 314	3 83	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 447	4 24	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 727	3 83	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 638	4 24	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

ANALYTICAL REPORT

Sample ID: AUJ0241-03 (B4-0A1-VOCS - Air) - cont. **Sampled: 10/15/11 16:21**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0 515	5 10	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Toluene	**7.11**		ug/m³ Air	0 271	3 52	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	0 976	3 83	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	1 95	7 96	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 718	7 18	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 447	4 36	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Tetrachloroethene	ND		ug/m³ Air	0 529	6 34	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 312	4 30	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Ethylbenzene	**0.750**	J	ug/m³ Air	0 568	4 06	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	**1.89**	J	ug/m³ Air	1 25	8 11	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 41	9 66	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 464	3 98	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2 07	6 41	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
o-Xylene	**0 876**	J	ug/m³ Air	0 625	4 06	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
n-Nonane	ND		ug/m³ Air	0 698	4 90	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 592	4 59	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	0 925	4 59	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 755	4 59	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	**0 992**	J	ug/m³ Air	0 847	4 59	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 709	4 84	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 47	5 62	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	0 930	5 44	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 20	5 62	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	1 87	5 62	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 750	5 97	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 804	6 93	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	1 03	4 90	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	1 54	9 96	4 67	11/08/11 21:44	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*99 %*						11/08/11 21:44	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*85 %*						11/08/11 21:44	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*112 %*						11/08/11 21:44	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*105 %*						11/08/11 21:44	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*96 %*						11/08/11 21:44	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Sample ID: AUJ0241-04 (B4-0A2-VOCS - Air) **Sampled: 10/15/11 19:59**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**2.57**	J	ug/m³ Air	0 320	3 65	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	**2.41**	J	ug/m³ Air	0 598	5 11	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Chloromethane	**1.19**	J	ug/m³ Air	0 154	2 13	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2 65	7 22	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 383	2 64	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,3-Butadiene	ND		ug/m³ Air	0 217	2 29	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Butane	**6.70**		ug/m³ Air	0 225	2 46	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 636	4 01	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 338	2 73	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Acetonitrile	ND		ug/m³ Air	0 112	1 73	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Trichlorofluoromethane	**1.72**	J	ug/m³ Air	0 412	5 80	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Acetone	**44.3**	B	ug/m³ Air	0 182	2 45	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Acrylonitrile	ND		ug/m³ Air	0 287	2 24	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
n-Pentane	**2.58**	J	ug/m³ Air	0 204	3 05	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 249	3 13	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 246	4 10	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Methylene chloride	**0.434**	J	ug/m³ Air	0 328	3 59	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 722	3 22	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 493	3 23	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1 04	7 92	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 526	4 10	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 414	4 18	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 408	3 72	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Vinyl acetate	ND		ug/m³ Air	0 713	3 64	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
2-Butanone (MEK)	**0 980**	J	ug/m³ Air	0 405	3 05	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 371	4 10	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Hexane	**0.750**	J	ug/m³ Air	0 399	3 64	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 416	5 04	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 291	4 18	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 547	5 64	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Benzene	**1.62**	J	ug/m³ Air	0 345	3 30	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	1 77	6 50	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Cyclohexane	**0 508**	J	ug/m³ Air	0 441	3 56	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 380	4 77	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 62	6 92	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Trichloroethene	ND		ug/m³ Air	0 375	5 55	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Heptane	**0.430**	J	ug/m³ Air	0 347	4 23	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 495	4 69	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 804	4 23	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 706	4 69	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Sample ID: AUJ0241-04 (B4-0A2-VOCS - Air) - cont. **Sampled: 10/15/11 19:59**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0 569	5 64	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Toluene	**5.06**		ug/m³ Air	0 300	3 89	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	1 08	4 23	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	2 15	8 80	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 794	7 94	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 495	4 83	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Tetrachloroethene	ND		ug/m³ Air	0 585	7 01	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 345	4 76	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Ethylbenzene	ND		ug/m³ Air	0 628	4 49	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	ND		ug/m³ Air	1 38	8 97	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 55	10 7	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 513	4 40	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2 29	7 09	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
o-Xylene	ND		ug/m³ Air	0 691	4 49	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
n-Nonane	ND		ug/m³ Air	0 772	5 42	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 655	5 08	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	1 02	5 08	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 835	5 08	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 937	5 08	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 784	5 35	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 63	6 21	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	1 03	6 01	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 33	6 21	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	2 07	6 21	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 829	6 60	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 889	7 67	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	1 14	5 42	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	1 71	11 0	5 17	11/08/11 22:44	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*101 %*						11/08/11 22:44	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*89 %*						11/08/11 22:44	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*112 %*						11/08/11 22:44	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*103 %*						11/08/11 22:44	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*94 %*						11/08/11 22:44	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Sample ID: AUJ0241-05 (B4CS-SS1-VOCS - Air) **Sampled: 10/15/11 19:10**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**6.52**		ug/m³ Air	0 309	3 53	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	**2.12**	J	ug/m³ Air	0 578	4 94	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Chloromethane	**0 309**	J	ug/m³ Air	0 149	2 06	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2 57	6 98	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 370	2 55	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,3-Butadiene	ND		ug/m³ Air	0 210	2 21	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Butane	**1.37**	J	ug/m³ Air	0 217	2 37	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 615	3 88	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 327	2 64	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Acetonitrile	**0 340**	J	ug/m³ Air	0 108	1 68	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Trichlorofluoromethane	**1.38**	J	ug/m³ Air	0 399	5 61	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Acetone	**72.5**	B	ug/m³ Air	0 176	2 37	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Acrylonitrile	ND		ug/m³ Air	0 278	2 17	5	11/08/11 23:44	GCMSR1	KRW	11K0093
n-Pentane	**2.30**	J	ug/m³ Air	0 198	2 95	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 241	3 03	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 238	3 96	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Methylene chloride	ND		ug/m³ Air	0 318	3 47	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 698	3 11	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 477	3 13	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1 01	7 66	5	11/08/11 23:44	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	**2.07**	J	ug/m³ Air	0 509	3 96	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 400	4 04	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 394	3 60	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Vinyl acetate	**1.03**	J	ug/m³ Air	0 689	3 52	5	11/08/11 23:44	GCMSR1	KRW	11K0093
2-Butanone (MEK)	**3.20**		ug/m³ Air	0 392	2 95	5	11/08/11 23:44	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	**127**		ug/m³ Air	0 358	3 96	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Hexane	ND		ug/m³ Air	0 386	3 52	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 402	4 88	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 281	4 04	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 529	5 45	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Benzene	**0 900**	J	ug/m³ Air	0 334	3 19	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	1 71	6 29	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Cyclohexane	ND		ug/m³ Air	0 426	3 44	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 367	4 62	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 57	6 69	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Trichloroethene	**6.93**		ug/m³ Air	0 362	5 37	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Heptane	ND		ug/m³ Air	0 336	4 09	5	11/08/11 23:44	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 478	4 53	5	11/08/11 23:44	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	**1.07**	J	ug/m³ Air	0 778	4 09	5	11/08/11 23:44	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 682	4 53	5	11/08/11 23:44	GCMSR1	KRW	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

ANALYTICAL REPORT

Sample ID: AUJ0241-05 (B4CS-SS1-VOCS - Air) - cont. **Sampled: 10/15/11 19:10**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0 551	5 45	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Toluene	**1.07**	J	ug/m³ Air	0 290	3 76	5	11/08/11 23:44	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	1 04	4 09	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	2 08	8 51	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 768	7 68	5	11/08/11 23:44	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 478	4 67	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Tetrachloroethene	**13.8**		ug/m³ Air	0 566	6 78	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 333	4 60	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Ethylbenzene	**1.07**	J	ug/m³ Air	0 607	4 34	5	11/08/11 23:44	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	**3.64**	J	ug/m³ Air	1 33	8 68	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 50	10 3	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 496	4 26	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2 22	6 86	5	11/08/11 23:44	GCMSR1	KRW	11K0093
o-Xylene	**1.67**	J	ug/m³ Air	0 668	4 34	5	11/08/11 23:44	GCMSR1	KRW	11K0093
n-Nonane	ND		ug/m³ Air	0 747	5 24	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 634	4 91	5	11/08/11 23:44	GCMSR1	KRW	11K0093
n-Propylbenzene	**2.09**	J	ug/m³ Air	0 990	4 91	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	**24.3**		ug/m³ Air	0 808	4 91	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	**83.8**		ug/m³ Air	0 906	4 91	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 758	5 17	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 57	6 01	5	11/08/11 23:44	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	0 994	5 81	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 28	6 01	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	2 00	6 01	5	11/08/11 23:44	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 802	6 39	5	11/08/11 23:44	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 860	7 41	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	1 10	5 24	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	1 65	10 7	5	11/08/11 23:44	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*100 %*						11/08/11 23:44	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*88 %*						11/08/11 23:44	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*108 %*						11/08/11 23:44	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*102 %*						11/08/11 23:44	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*94 %*						11/08/11 23:44	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUJ0241-06 (B4CS-SS2-VOCS - Air)							**Sampled: 10/15/11 19:30**			
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	**12.3**		ug/m³ Air	0 316	3 61	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	**2.36**	J	ug/m³ Air	0 590	5 04	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Chloromethane	**0 902**	J	ug/m³ Air	0 152	2 11	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2 62	7 13	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Vinyl chloride	**0.753**	J	ug/m³ Air	0 378	2 61	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,3-Butadiene	ND		ug/m³ Air	0 214	2 26	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Butane	**0 366**	J	ug/m³ Air	0 222	2 42	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 628	3 96	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 334	2 69	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Acetonitrile	**0 979**	J	ug/m³ Air	0 110	1 71	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Trichlorofluoromethane	**1.55**	J	ug/m³ Air	0 407	5 73	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Acetone	**79.4**	B	ug/m³ Air	0 179	2 42	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Acrylonitrile	ND		ug/m³ Air	0 283	2 21	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
n-Pentane	**0.402**	J	ug/m³ Air	0 202	3 01	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 246	3 09	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 243	4 04	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Methylene chloride	ND		ug/m³ Air	0 324	3 54	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 713	3 18	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 487	3 19	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1 03	7 82	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	**15.6**		ug/m³ Air	0 520	4 04	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 409	4 13	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 403	3 68	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Vinyl acetate	**3.50**	J	ug/m³ Air	0 704	3 59	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
2-Butanone (MEK)	**11.6**		ug/m³ Air	0 400	3 01	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	**1590**	RA	ug/m³ Air	7 42	100	126	11/12/11 07:06	VMSC	KDK	11K0145
Hexane	**1.23**	J	ug/m³ Air	0 394	3 59	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Chloroform	**0.724**	J	ug/m³ Air	0 411	4 98	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 287	4 13	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 540	5 56	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Benzene	**0 855**	J	ug/m³ Air	0 340	3 26	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	1 75	6 42	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Cyclohexane	ND		ug/m³ Air	0 435	3 51	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 375	4 71	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 60	6 83	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Trichloroethene	**88.9**		ug/m³ Air	0 370	5 48	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Heptane	ND		ug/m³ Air	0 343	4 18	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 488	4 63	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 794	4 18	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 697	4 63	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Sample ID: AUJ0241-06 (B4CS-SS2-VOCS - Air) - cont. **Sampled: 10/15/11 19:30**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0 562	5 56	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Toluene	**1.87**	J	ug/m³ Air	0 296	3 84	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	1 07	4 18	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	2 12	8 69	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 784	7 84	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 488	4 76	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Tetrachloroethene	**179**		ug/m³ Air	0 578	6 92	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 340	4 69	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Ethylbenzene	ND		ug/m³ Air	0 620	4 43	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	ND		ug/m³ Air	1 36	8 86	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 53	10 5	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 506	4 34	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2 26	7 00	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
o-Xylene	ND		ug/m³ Air	0 682	4 43	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
n-Nonane	ND		ug/m³ Air	0 762	5 35	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 647	5 01	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	1 01	5 01	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 825	5 01	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 925	5 01	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 773	5 28	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 61	6 13	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	1 01	5 93	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 31	6 13	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	2 04	6 13	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 818	6 52	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 878	7 57	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	1 12	5 35	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	1 69	10 9	5 1	11/09/11 00:45	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*99 %*						11/09/11 00:45	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*96 %*	*RA*					11/12/11 07:06	VMSC	KDK	11K0145
Surr: Fluorobenzene (46-118%)	*88 %*						11/09/11 00:45	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*80 %*	*RA*					11/12/11 07:06	VMSC	KDK	11K0145
Surr: Toluene-d8 (70-136%)	*110 %*						11/09/11 00:45	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*102 %*	*RA*					11/12/11 07:06	VMSC	KDK	11K0145
Surr: 1,4-Dichlorobutane (38-135%)	*98 %*						11/09/11 00:45	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*82 %*	*RA*					11/12/11 07:06	VMSC	KDK	11K0145
Surr: 4-Bromofluorobenzene (51-128%)	*92 %*						11/09/11 00:45	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*98 %*	*RA*					11/12/11 07:06	VMSC	KDK	11K0145

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

ANALYTICAL REPORT

Sample ID: AUJ0241-07 (B4CS-CS1-VOCS - Air) **Sampled: 10/15/11 16:34**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**3.91**	J	ug/m³ Air	0 391	4 46	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	**2.56**	J	ug/m³ Air	0 730	6 24	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Chloromethane	**1.09**	J	ug/m³ Air	0 188	2 61	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	3 24	8 82	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 468	3 23	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,3-Butadiene	ND		ug/m³ Air	0 265	2 79	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Butane	**9.96**		ug/m³ Air	0 275	3 00	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 777	4 90	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 413	3 33	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Acetonitrile	ND		ug/m³ Air	0 137	2 12	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Trichlorofluoromethane	**1.76**	J	ug/m³ Air	0 503	7 09	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Acetone	**103**	RA,B	ug/m³ Air	0 953	15 0	31 6	11/12/11 08:04	VMSC	KDK	11K0145
Acrylonitrile	ND		ug/m³ Air	0 351	2 74	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
n-Pentane	**3.91**		ug/m³ Air	0 250	3 72	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 304	3 83	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 300	5 00	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Methylene chloride	**0.634**	J	ug/m³ Air	0 401	4 38	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 882	3 93	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 602	3 95	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1 27	9 67	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 643	5 00	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 506	5 11	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 498	4 55	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Vinyl acetate	ND		ug/m³ Air	0 871	4 44	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
2-Butanone (MEK)	**1.61**	J	ug/m³ Air	0 495	3 72	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	**17.2**		ug/m³ Air	0 453	5 00	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Hexane	**1.72**	J	ug/m³ Air	0 487	4 45	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 508	6 16	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 355	5 11	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 668	6 89	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Benzene	**2.12**	J	ug/m³ Air	0 421	4 03	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	2 16	7 94	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Cyclohexane	**0 808**	J	ug/m³ Air	0 539	4 34	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 464	5 83	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 98	8 46	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Trichloroethene	ND		ug/m³ Air	0 458	6 78	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Heptane	**0 569**	J	ug/m³ Air	0 424	5 17	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 604	5 73	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 982	5 17	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 862	5 73	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Sample ID: AUJ0241-07 (B4CS-CS1-VOCS - Air) - cont. **Sampled: 10/15/11 16:34**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0 696	6 89	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Toluene	**158**		ug/m³ Air	0 366	4 76	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	1 32	5 17	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	2 63	10 8	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 970	9 70	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 604	5 90	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Tetrachloroethene	ND		ug/m³ Air	0 715	8 56	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 421	5 81	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Ethylbenzene	**0.773**	J	ug/m³ Air	0 767	5 48	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	**1.84**	J	ug/m³ Air	1 68	11 0	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 90	13 0	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 626	5 38	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2 80	8 66	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
o-Xylene	**0 880**	J	ug/m³ Air	0 844	5 48	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
n-Nonane	**220**		ug/m³ Air	0 943	6 62	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 800	6 20	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	1 25	6 20	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	1 02	6 20	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	ND		ug/m³ Air	1 14	6 20	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 957	6 53	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 99	7 59	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	1 26	7 34	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 62	7 59	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	2 53	7 59	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	1 01	8 07	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	1 09	9 37	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	1 39	6 62	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	2 09	13 5	6 31	11/09/11 01:45	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*101 %*						11/09/11 01:45	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*96 %*	*RA*					11/12/11 08:04	VMSC	KDK	11K0145
Surr: Fluorobenzene (46-118%)	*89 %*						11/09/11 01:45	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*80 %*	*RA*					11/12/11 08:04	VMSC	KDK	11K0145
Surr: Toluene-d8 (70-136%)	*109 %*						11/09/11 01:45	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*102 %*	*RA*					11/12/11 08:04	VMSC	KDK	11K0145
Surr: 1,4-Dichlorobutane (38-135%)	*103 %*						11/09/11 01:45	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*82 %*	*RA*					11/12/11 08:04	VMSC	KDK	11K0145
Surr: 4-Bromofluorobenzene (51-128%)	*99 %*						11/09/11 01:45	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*103 %*	*RA*					11/12/11 08:04	VMSC	KDK	11K0145

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ANALYTICAL REPORT

Sample ID: AUJ0241-08 (B4CS-CS2-VOCS - Air) **Sampled: 10/15/11 19:51**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**4.38**		ug/m³ Air	0 334	3 82	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	**2.69**	J	ug/m³ Air	0 625	5 34	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Chloromethane	**1.20**	J	ug/m³ Air	0 161	2 23	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2 78	7 55	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 400	2 76	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,3-Butadiene	**0.239**	J	ug/m³ Air	0 227	2 39	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Butane	**9.77**		ug/m³ Air	0 235	2 57	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 665	4 19	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 353	2 85	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Acetonitrile	ND		ug/m³ Air	0 117	1 81	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Trichlorofluoromethane	**1.77**	J	ug/m³ Air	0 431	6 07	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Acetone	**114**	RA,B	ug/m³ Air	0 815	12 8	27	11/12/11 09:01	VMSC	KDK	11K0145
Acrylonitrile	ND		ug/m³ Air	0 300	2 34	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
n-Pentane	**3.53**		ug/m³ Air	0 214	3 19	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 260	3 27	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 257	4 28	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Methylene chloride	**0.668**	J	ug/m³ Air	0 343	3 75	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 755	3 36	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 516	3 38	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1 09	8 28	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 550	4 28	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 433	4 37	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 426	3 89	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Vinyl acetate	ND		ug/m³ Air	0 746	3 80	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
2-Butanone (MEK)	**1.69**	J	ug/m³ Air	0 424	3 19	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	**17.1**		ug/m³ Air	0 388	4 28	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Hexane	**1.92**	J	ug/m³ Air	0 417	3 81	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 435	5 27	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 304	4 37	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 572	5 89	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Benzene	**2.03**	J	ug/m³ Air	0 361	3 45	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	1 85	6 80	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Cyclohexane	**0.799**	J	ug/m³ Air	0 461	3 72	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 397	4 99	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 70	7 24	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Trichloroethene	ND		ug/m³ Air	0 392	5 81	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Heptane	**0.633**	J	ug/m³ Air	0 363	4 43	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 517	4 90	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 841	4 43	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 738	4 90	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093

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ANALYTICAL REPORT

Sample ID: AUJ0241-08 (B4CS-CS2-VOCS - Air) - cont. **Sampled: 10/15/11 19:51**

EPA TO15 - Volatile Organic Compounds by GC/MS - cont.

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
1,1,2-Trichloroethane	ND		ug/m³ Air	0 595	5 89	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Toluene	**169**		ug/m³ Air	0 313	4 07	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	1 13	4 43	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	2 25	9 20	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 830	8 30	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 517	5 05	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Tetrachloroethene	ND		ug/m³ Air	0 612	7 33	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 361	4 97	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Ethylbenzene	**0.722**	J	ug/m³ Air	0 657	4 69	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	**1.96**	J	ug/m³ Air	1 44	9 38	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 62	11 2	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 536	4 60	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2 40	7 42	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
o-Xylene	**0 952**	J	ug/m³ Air	0 722	4 69	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
n-Nonane	**179**		ug/m³ Air	0 808	5 67	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 685	5 31	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	1 07	5 31	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 874	5 31	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 980	5 31	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 819	5 59	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 70	6 49	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	1 07	6 29	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 39	6 49	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	2 16	6 49	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 867	6 91	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 930	8 02	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	1 19	5 66	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	1 79	11 5	5 4	11/09/11 02:46	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*95 %*						11/09/11 02:46	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*94 %*	*RA*					11/12/11 09:01	VMSC	KDK	11K0145
Surr: Fluorobenzene (46-118%)	*86 %*						11/09/11 02:46	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*80 %*	*RA*					11/12/11 09:01	VMSC	KDK	11K0145
Surr: Toluene-d8 (70-136%)	*106 %*						11/09/11 02:46	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*100 %*	*RA*					11/12/11 09:01	VMSC	KDK	11K0145
Surr: 1,4-Dichlorobutane (38-135%)	*103 %*						11/09/11 02:46	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*85 %*	*RA*					11/12/11 09:01	VMSC	KDK	11K0145
Surr: 4-Bromofluorobenzene (51-128%)	*100 %*						11/09/11 02:46	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*104 %*	*RA*					11/12/11 09:01	VMSC	KDK	11K0145

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ANALYTICAL REPORT

Sample ID: AUJ0241-09 (B4-IA1-VOCS - Air) **Sampled: 10/15/11 19:53**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**3.77**		ug/m³ Air	0 328	3 75	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	**2.61**	J	ug/m³ Air	0 613	5 24	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Chloromethane	**1.17**	J	ug/m³ Air	0 158	2 19	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2 72	7 41	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 393	2 71	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,3-Butadiene	ND		ug/m³ Air	0 223	2 35	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Butane	**8.71**		ug/m³ Air	0 231	2 52	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 653	4 12	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 347	2 80	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Acetonitrile	ND		ug/m³ Air	0 115	1 78	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Trichlorofluoromethane	**1.73**	J	ug/m³ Air	0 423	5 96	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Acetone	**116**	B	ug/m³ Air	0 186	2 52	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Acrylonitrile	ND		ug/m³ Air	0 295	2 30	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
n-Pentane	**3.52**		ug/m³ Air	0 210	3 13	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 256	3 21	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 252	4 20	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Methylene chloride	**0.604**	J	ug/m³ Air	0 337	3 68	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 741	3 30	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 506	3 32	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1 07	8 13	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 540	4 20	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 425	4 29	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 419	3 82	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Vinyl acetate	ND		ug/m³ Air	0 732	3 73	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
2-Butanone (MEK)	**1.25**	J	ug/m³ Air	0 416	3 13	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 380	4 20	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Hexane	**1.49**	J	ug/m³ Air	0 409	3 74	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 427	5 18	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 298	4 29	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 561	5 78	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Benzene	**1.98**	J	ug/m³ Air	0 354	3 39	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	1 81	6 67	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Cyclohexane	**0.735**	J	ug/m³ Air	0 453	3 65	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 390	4 90	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 67	7 10	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Trichloroethene	ND		ug/m³ Air	0 385	5 70	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Heptane	**0.608**	J	ug/m³ Air	0 356	4 35	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 508	4 81	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 825	4 34	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 724	4 81	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUJ0241-09 (B4-IA1-VOCS - Air) - cont.							**Sampled: 10/15/11 19:53**			
EPA TO15 - Volatile Organic Compounds by GC/MS - cont.										
1,1,2-Trichloroethane	ND		ug/m³ Air	0 584	5 78	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Toluene	**100**		ug/m³ Air	0 308	4 00	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	1 11	4 34	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	2 21	9 03	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 815	8 15	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 508	4 95	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Tetrachloroethene	ND		ug/m³ Air	0 600	7 19	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 354	4 88	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Ethylbenzene	**0.743**	J	ug/m³ Air	0 644	4 60	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	**1.80**	J	ug/m³ Air	1 41	9 21	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 59	11 0	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 526	4 52	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2 35	7 28	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
o-Xylene	**0 909**	J	ug/m³ Air	0 709	4 60	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
n-Nonane	**4.03**	J	ug/m³ Air	0 793	5 56	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 672	5 21	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	1 05	5 21	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 857	5 21	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 962	5 21	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 804	5 49	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 67	6 37	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	1 06	6 17	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 36	6 37	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	2 12	6 37	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 851	6 78	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 913	7 87	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	1 17	5 56	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	1 75	11 3	5 3	11/09/11 03:46	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*99 %*						11/09/11 03:46	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*85 %*						11/09/11 03:46	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*110 %*						11/09/11 03:46	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*105 %*						11/09/11 03:46	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*99 %*						11/09/11 03:46	GCMSR1	KRW	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

ANALYTICAL REPORT

Sample ID: AUJ0241-10 (B4-IA2-VOCS - Air) **Sampled: 10/15/11 19:54**

EPA TO15 - Volatile Organic Compounds by GC/MS

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Chlorodifluoromethane	**3.79**		ug/m³ Air	0 331	3 78	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	**2.62**	J	ug/m³ Air	0 619	5 29	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Chloromethane	**1.12**	J	ug/m³ Air	0 159	2 21	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	2 75	7 47	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 396	2 73	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,3-Butadiene	ND		ug/m³ Air	0 225	2 37	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Butane	**8.60**		ug/m³ Air	0 233	2 54	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 658	4 15	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 350	2 82	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Acetonitrile	ND		ug/m³ Air	0 116	1 79	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Trichlorofluoromethane	**1.76**	J	ug/m³ Air	0 426	6 01	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Acetone	**107**	B	ug/m³ Air	0 188	2 54	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Acrylonitrile	ND		ug/m³ Air	0 297	2 32	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
n-Pentane	**3.56**		ug/m³ Air	0 211	3 15	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 258	3 24	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 254	4 24	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Methylene chloride	**0.618**	J	ug/m³ Air	0 340	3 71	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 747	3 33	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 510	3 35	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	1 08	8 19	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 545	4 24	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 428	4 33	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 422	3 85	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Vinyl acetate	ND		ug/m³ Air	0 738	3 76	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
2-Butanone (MEK)	**1.05**	J	ug/m³ Air	0 419	3 15	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 384	4 24	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Hexane	**1.37**	J	ug/m³ Air	0 413	3 77	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 431	5 22	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 301	4 33	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 566	5 83	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Benzene	**2.04**	J	ug/m³ Air	0 357	3 42	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	1 83	6 73	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Cyclohexane	**0.776**	J	ug/m³ Air	0 456	3 68	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 393	4 94	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	1 68	7 16	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Trichloroethene	ND		ug/m³ Air	0 388	5 75	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Heptane	**0.631**	J	ug/m³ Air	0 359	4 38	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 512	4 85	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 832	4 38	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 730	4 85	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: AUJ0241-10 (B4-IA2-VOCS - Air) - cont.							**Sampled: 10/15/11 19:54**			
EPA TO15 - Volatile Organic Compounds by GC/MS - cont.										
1,1,2-Trichloroethane	ND		ug/m³ Air	0 589	5 83	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Toluene	**81.1**		ug/m³ Air	0 310	4 03	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	1 12	4 38	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	2 23	9 11	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 821	8 21	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 512	4 99	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Tetrachloroethene	ND		ug/m³ Air	0 605	7 25	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 357	4 92	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Ethylbenzene	**0.775**	J	ug/m³ Air	0 650	4 64	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	**1.85**	J	ug/m³ Air	1 43	9 28	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	1 61	11 1	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 531	4 55	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	2 37	7 34	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
o-Xylene	**0 910**	J	ug/m³ Air	0 715	4 64	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
n-Nonane	**3.16**	J	ug/m³ Air	0 799	5 61	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 678	5 26	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	1 06	5 26	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 865	5 26	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 970	5 26	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 811	5 53	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	1 68	6 43	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	1 06	6 22	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	1 37	6 43	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	2 14	6 43	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 858	6 83	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 920	7 93	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	1 18	5 60	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	1 77	11 4	5 35	11/09/11 05:47	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*98 %*						11/09/11 05:47	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*84 %*						11/09/11 05:47	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*111 %*						11/09/11 05:47	GCMSR1	KRW	11K0093
Surr: 1,4-Dichlorobutane (38-135%)	*103 %*						11/09/11 05:47	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*97 %*						11/09/11 05:47	GCMSR1	KRW	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11K0093-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Chlorodifluoromethane	ND		ug/m³ Air	0 124	1 41	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Dichlorodifluoromethane	ND		ug/m³ Air	0 231	1 98	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Chloromethane	ND		ug/m³ Air	0 0595	0 826	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ug/m³ Air	1 03	2 80	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Vinyl chloride	ND		ug/m³ Air	0 148	1 02	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,3-Butadiene	ND		ug/m³ Air	0 0841	0 885	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Butane	ND		ug/m³ Air	0 0870	0 951	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Bromomethane	ND		ug/m³ Air	0 246	1 55	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Chloroethane	ND		ug/m³ Air	0 131	1 06	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Acetonitrile	ND		ug/m³ Air	0 0433	0 672	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Trichlorofluoromethane	ND		ug/m³ Air	0 160	2 25	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Acetone	**0.247**	**J**	ug/m³ Air	0 0703	0 950	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Acrylonitrile	ND		ug/m³ Air	0 111	0 868	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
n-Pentane	ND		ug/m³ Air	0 0791	1 18	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Diethyl ether	ND		ug/m³ Air	0 0964	1 21	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,1-Dichloroethene	ND		ug/m³ Air	0 0952	1 59	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Methylene chloride	ND		ug/m³ Air	0 127	1 39	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Carbon disulfide	ND		ug/m³ Air	0 280	1 25	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Allyl chloride	ND		ug/m³ Air	0 191	1 25	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,1,2-Trichlorotrifluoroethane	ND		ug/m³ Air	0 403	3 07	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
trans-1,2-Dichloroethene	ND		ug/m³ Air	0 204	1 59	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,1-Dichloroethane	ND		ug/m³ Air	0 160	1 62	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Methyl tert-Butyl Ether	ND		ug/m³ Air	0 158	1 44	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Vinyl acetate	ND		ug/m³ Air	0 276	1 41	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
2-Butanone (MEK)	ND		ug/m³ Air	0 157	1 18	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 144	1 59	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Hexane	ND		ug/m³ Air	0 154	1 41	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Chloroform	ND		ug/m³ Air	0 161	1 95	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,2-Dichloroethane	ND		ug/m³ Air	0 113	1 62	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,1,1-Trichloroethane	ND		ug/m³ Air	0 212	2 18	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Benzene	ND		ug/m³ Air	0 134	1 28	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Carbon tetrachloride	ND		ug/m³ Air	0 684	2 52	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Cyclohexane	ND		ug/m³ Air	0 171	1 38	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,2-Dichloropropane	ND		ug/m³ Air	0 147	1 85	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Bromodichloromethane	ND		ug/m³ Air	0 629	2 68	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Trichloroethene	ND		ug/m³ Air	0 145	2 15	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11K0093-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Heptane	ND		ug/m³ Air	0 134	1 64	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
cis-1,3-Dichloropropene	ND		ug/m³ Air	0 192	1 82	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
4-Methyl-2-pentanone (MIBK)	ND		ug/m³ Air	0 311	1 64	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
trans-1,3-Dichloropropene	ND		ug/m³ Air	0 273	1 82	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,1,2-Trichloroethane	ND		ug/m³ Air	0 220	2 18	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Toluene	ND		ug/m³ Air	0 116	1 51	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
2-Hexanone	ND		ug/m³ Air	0 418	1 64	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Chlorodibromomethane	ND		ug/m³ Air	0 833	3 41	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,2-Dibromoethane (EDB)	ND		ug/m³ Air	0 307	3 07	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
n-Octane	ND		ug/m³ Air	0 192	1 87	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Tetrachloroethene	ND		ug/m³ Air	0 227	2 71	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Chlorobenzene	ND		ug/m³ Air	0 134	1 84	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Ethylbenzene	ND		ug/m³ Air	0 243	1 74	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
m-Xylene & p-Xylene	ND		ug/m³ Air	0 533	3 47	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Bromoform	ND		ug/m³ Air	0 602	4 13	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Styrene	ND		ug/m³ Air	0 199	1 70	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,1,2,2-Tetrachloroethane	ND		ug/m³ Air	0 888	2 75	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
o-Xylene	ND		ug/m³ Air	0 267	1 74	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
n-Nonane	ND		ug/m³ Air	0 299	2 10	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Isopropylbenzene	ND		ug/m³ Air	0 254	1 97	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
n-Propylbenzene	ND		ug/m³ Air	0 396	1 97	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,3,5-Trimethylbenzene	ND		ug/m³ Air	0 323	1 97	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,2,4-Trimethylbenzene	ND		ug/m³ Air	0 363	1 97	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Benzyl chloride	ND		ug/m³ Air	0 303	2 07	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,3-Dichlorobenzene	ND		ug/m³ Air	0 630	2 40	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
n-Decane	ND		ug/m³ Air	0 398	2 33	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,4-Dichlorobenzene	ND		ug/m³ Air	0 513	2 40	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,2-Dichlorobenzene	ND		ug/m³ Air	0 801	2 40	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
n-Undecane	ND		ug/m³ Air	0 321	2 56	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
1,2,4-Trichlorobenzene	ND		ug/m³ Air	0 344	2 97	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Naphthalene	ND		ug/m³ Air	0 440	2 10	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Hexachlorobutadiene	ND		ug/m³ Air	0 661	4 27	2 00	11/09/11 7:48	GCMSR1	KRW	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*95%*						11/09/11 7:48	GCMSR1	KRW	11K0093
Surr: Fluorobenzene (46-118%)	*81%*						11/09/11 7:48	GCMSR1	KRW	11K0093
Surr: Toluene-d8 (70-136%)	*105%*						11/09/11 7:48	GCMSR1	KRW	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 11K0093-BLK1 (Blank - Air) - cont.										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Surr: 1,4-Dichlorobutane (38-135%)	*103%*						11/09/11 7:48	GCMSR1	KRW	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*97%*						11/09/11 7:48	GCMSR1	KRW	11K0093
Sample ID: 11K0145-BLK1 (Blank - Air)										
EPA TO15 - Volatile Organic Compounds by GC/MS										
Acetone	**0 117**	**J**	ug/m³ Air	0 0604	0 950	2 00	11/11/11 13:30	VMSC	KDK	11K0145
cis-1,2-Dichloroethene	ND		ug/m³ Air	0 118	1 59	2 00	11/11/11 13:30	VMSC	KDK	11K0145
Trichloroethene	ND		ug/m³ Air	0 159	2 15	2 00	11/11/11 13:30	VMSC	KDK	11K0145
Tetrachloroethene	ND		ug/m³ Air	0 201	2 71	2 00	11/11/11 13:30	VMSC	KDK	11K0145
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*101%*						11/11/11 13:30	VMSC	KDK	11K0145
Surr: Fluorobenzene (46-118%)	*98%*						11/11/11 13:30	VMSC	KDK	11K0145
Surr: Toluene-d8 (70-136%)	*100%*						11/11/11 13:30	VMSC	KDK	11K0145
Surr: 1,4-Dichlorobutane (38-135%)	*77%*						11/11/11 13:30	VMSC	KDK	11K0145
Surr: 4-Bromofluorobenzene (51-128%)	*89%*						11/11/11 13:30	VMSC	KDK	11K0145

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07

PROJECT QUALITY CONTROL DATA

Calibration Check

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11K0093-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Dichlorodifluoromethane	50 3		ug/m³ Air	1 98	2 00	51 7	97%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Chloromethane	23 1		ug/m³ Air	0 826	2 00	21 8	106%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	70 7		ug/m³ Air	2 80	2 00	72 4	98%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Vinyl chloride	27 2		ug/m³ Air	1 02	2 00	26 7	102%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,3-Butadiene	26 9		ug/m³ Air	0 885	2 00	24 6	110%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Butane	25 7		ug/m³ Air	0 951	2 00	24 4	105%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Bromomethane	40 7		ug/m³ Air	1 55	2 00	40 6	100%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Chloroethane	30 4		ug/m³ Air	1 06	2 00	27 6	110%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Acetonitrile	26 0		ug/m³ Air	0 672	2 00	18 3	142%	50 - 150	GCMSR1	11/08/11 10:52	11K0093
Trichlorofluoromethane	59 7		ug/m³ Air	2 25	2 00	61 2	98%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Acetone	**36.9**	**C8, B**	**ug/m³ Air**	**0 950**	**2.00**	**27.6**	**134%**	**70 - 130**	**GCMSR1**	**11/08/11 10:52**	**11K0093**
Acrylonitrile	**32.9**	**C8**	**ug/m³ Air**	**0 868**	**2.00**	**24 1**	**137%**	**70 - 130**	**GCMSR1**	**11/08/11 10:52**	**11K0093**
n-Pentane	35 1		ug/m³ Air	1 18	2 00	32 1	109%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,1-Dichloroethene	46 2		ug/m³ Air	1 59	2 00	43 6	106%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Methylene chloride	43 8		ug/m³ Air	1 39	2 00	37 5	117%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Carbon disulfide	34 3		ug/m³ Air	1 25	2 00	33 9	101%	50 - 150	GCMSR1	11/08/11 10:52	11K0093
Allyl chloride	37 5		ug/m³ Air	1 25	2 00	35 1	107%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,1,2-Trichlorotrifluoroethane	83 6		ug/m³ Air	3 07	2 00	83 5	100%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
trans-1,2-Dichloroethene	47 0		ug/m³ Air	1 59	2 00	43 6	108%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,1-Dichloroethane	48 5		ug/m³ Air	1 62	2 00	45 3	107%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Methyl tert-Butyl Ether	42 8		ug/m³ Air	1 44	2 00	38 9	110%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Vinyl acetate	54 9		ug/m³ Air	1 41	2 00	41 0	134%	50 - 150	GCMSR1	11/08/11 10:52	11K0093
2-Butanone (MEK)	42 4		ug/m³ Air	1 18	2 00	34 0	125%	50 - 150	GCMSR1	11/08/11 10:52	11K0093
cis-1,2-Dichloroethene	47 0		ug/m³ Air	1 59	2 00	44 0	107%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Hexane	40 6		ug/m³ Air	1 41	2 00	39 5	103%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Chloroform	54 2		ug/m³ Air	1 95	2 00	53 7	101%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,2-Dichloroethane	50 1		ug/m³ Air	1 62	2 00	45 3	110%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,1,1-Trichloroethane	60 5		ug/m³ Air	2 18	2 00	61 1	99%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Benzene	42 5		ug/m³ Air	1 28	2 00	36 1	118%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Carbon tetrachloride	76 1		ug/m³ Air	2 52	2 00	69 8	109%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Cyclohexane	45 5		ug/m³ Air	1 38	2 00	38 6	118%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,2-Dichloropropane	66 3		ug/m³ Air	1 85	2 00	51 8	128%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Bromodichloromethane	79 8		ug/m³ Air	2 68	2 00	71 6	112%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Trichloroethene	56 2		ug/m³ Air	2 15	2 00	57 4	98%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Heptane	52 1		ug/m³ Air	1 64	2 00	44 6	117%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
cis-1,3-Dichloropropene	55 9		ug/m³ Air	1 82	2 00	49 9	112%	70 - 130	GCMSR1	11/08/11 10:52	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07

PROJECT QUALITY CONTROL DATA

Calibration Check - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11K0093-CCV1 (Calibration Check - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
4-Methyl-2-pentanone (MIBK)	65 5		ug/m³ Air	1 64	2 00	47 2	139%	50 - 150	GCMSR1	11/08/11 10:52	11K0093
trans-1,3-Dichloropropene	59 2		ug/m³ Air	1 82	2 00	52 8	112%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,1,2-Trichloroethane	68 3		ug/m³ Air	2 18	2 00	61 7	111%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Toluene	50 2		ug/m³ Air	1 51	2 00	43 4	116%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Chlorodibromomethane	102		ug/m³ Air	3 41	2 00	93 6	109%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,2-Dibromoethane (EDB)	94 6		ug/m³ Air	3 07	2 00	87 7	108%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
n-Octane	**67.7**	**C8**	**ug/m³ Air**	**1.87**	**2.00**	**50 9**	**133%**	**70 - 130**	**GCMSR1**	**11/08/11 10:52**	**11K0093**
Tetrachloroethene	78 0		ug/m³ Air	2 71	2 00	76 0	103%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Chlorobenzene	57 3		ug/m³ Air	1 84	2 00	52 6	109%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Ethylbenzene	58 5		ug/m³ Air	1 74	2 00	49 6	118%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
m-Xylene & p-Xylene	117		ug/m³ Air	3 47	2 00	97 3	120%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Bromoform	126		ug/m³ Air	4 13	2 00	116	109%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Styrene	54 5		ug/m³ Air	1 70	2 00	49 1	111%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,1,2,2-Tetrachloroethane	99 7		ug/m³ Air	2 75	2 00	77 6	128%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
o-Xylene	61 6		ug/m³ Air	1 74	2 00	49 1	125%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
n-Nonane	**79.5**	**C8**	**ug/m³ Air**	**2.10**	**2.00**	**56.6**	**141%**	**70 - 130**	**GCMSR1**	**11/08/11 10:52**	**11K0093**
Isopropylbenzene	64 3		ug/m³ Air	1 97	2 00	51 4	125%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
n-Propylbenzene	64 0		ug/m³ Air	1 97	2 00	52 0	123%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,3,5-Trimethylbenzene	67 6		ug/m³ Air	1 97	2 00	56 6	119%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,2,4-Trimethylbenzene	66 0		ug/m³ Air	1 97	2 00	56 6	117%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
Benzyl chloride	**87.8**	**C8**	**ug/m³ Air**	**2.07**	**2.00**	**59.6**	**147%**	**70 - 130**	**GCMSR1**	**11/08/11 10:52**	**11K0093**
1,3-Dichlorobenzene	73 9		ug/m³ Air	2 40	2 00	69 3	107%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
n-Decane	**86.6**	**C8**	**ug/m³ Air**	**2.33**	**2.00**	**63.4**	**137%**	**70 - 130**	**GCMSR1**	**11/08/11 10:52**	**11K0093**
1,4-Dichlorobenzene	73 2		ug/m³ Air	2 40	2 00	68 7	107%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
1,2-Dichlorobenzene	77 6		ug/m³ Air	2 40	2 00	68 7	113%	70 - 130	GCMSR1	11/08/11 10:52	11K0093
n-Undecane	95 3		ug/m³ Air	2 56	2 00	68 9	138%	50 - 150	GCMSR1	11/08/11 10:52	11K0093
1,2,4-Trichlorobenzene	93 8		ug/m³ Air	2 97	2 00	85 5	110%	50 - 150	GCMSR1	11/08/11 10:52	11K0093
Naphthalene	74 9		ug/m³ Air	2 10	2 00	60 4	124%	50 - 150	GCMSR1	11/08/11 10:52	11K0093
Hexachlorobutadiene	140		ug/m³ Air	4 27	2 00	122	115%	50 - 150	GCMSR1	11/08/11 10:52	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*100%*								GCMSR1	11/08/11 10:52	11K0093
Surr: Fluorobenzene (70-130%)	*91%*								GCMSR1	11/08/11 10:52	11K0093
Surr: Toluene-d8 (70-130%)	*101%*								GCMSR1	11/08/11 10:52	11K0093
Surr: 1,4-Dichlorobutane (70-130%)	*113%*								GCMSR1	11/08/11 10:52	11K0093
Surr: 4-Bromofluorobenzene (70-130%)	*107%*								GCMSR1	11/08/11 10:52	11K0093

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]		Received: Reported:	10/19/11 08:30 11/15/11 15:07

PROJECT QUALITY CONTROL DATA

Calibration Check - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11K0145-CCV1 (Calibration Check - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Acetone	29 6	B	ug/m³ Air	0 950	2 00	27 8	107%	70 - 130	VMSC	11/11/11 10:35	11K0145
cis-1,2-Dichloroethene	42 0		ug/m³ Air	1 59	2 00	44 2	95%	70 - 130	VMSC	11/11/11 10:35	11K0145
Trichloroethene	64 3		ug/m³ Air	2 15	2 00	57 7	112%	70 - 130	VMSC	11/11/11 10:35	11K0145
Tetrachloroethene	80 5		ug/m³ Air	2 71	2 00	76 4	105%	70 - 130	VMSC	11/11/11 10:35	11K0145
Surr: 2-Bromo-1,1,1-trifluoroethane (70-130%)	*98%*								VMSC	11/11/11 10:35	11K0145
Surr: Fluorobenzene (70-130%)	*92%*								VMSC	11/11/11 10:35	11K0145
Surr: Toluene-d8 (70-130%)	*100%*								VMSC	11/11/11 10:35	11K0145
Surr: 1,4-Dichlorobutane (70-130%)	*101%*								VMSC	11/11/11 10:35	11K0145
Surr: 4-Bromofluorobenzene (70-130%)	*106%*								VMSC	11/11/11 10:35	11K0145

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11K0093-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**3.77**		**3.88**	ug/m³ Air	3	25	11K0093	AUJ0241-09	11/09/11 4:46
Dichlorodifluoromethane	**2.61**	**J**	**2.58**	ug/m³ Air	1	25	11K0093	AUJ0241-09	11/09/11 4:46
Chloromethane	**1.17**	**J**	**1.12**	ug/m³ Air	5	25	11K0093	AUJ0241-09	11/09/11 4:46
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Vinyl chloride	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,3-Butadiene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Butane	**8.71**		**8.57**	ug/m³ Air	2	25	11K0093	AUJ0241-09	11/09/11 4:46
Bromomethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Chloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Acetonitrile	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Trichlorofluoromethane	**1.73**	**J**	**1.74**	ug/m³ Air	0 3	25	11K0093	AUJ0241-09	11/09/11 4:46
Acetone	**116**	**B**	**113**	ug/m³ Air	3	25	11K0093	AUJ0241-09	11/09/11 4:46
Acrylonitrile	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
n-Pentane	**3.52**		**3.58**	ug/m³ Air	2	25	11K0093	AUJ0241-09	11/09/11 4:46
Diethyl ether	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Methylene chloride	**0.604**	**J**	**0.610**	ug/m³ Air	0 9	25	11K0093	AUJ0241-09	11/09/11 4:46
Carbon disulfide	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Allyl chloride	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Vinyl acetate	ND		ND	ug/m³ Air		50	11K0093	AUJ0241-09	11/09/11 4:46
2-Butanone (MEK)	**1.25**	**J**	**1.26**	ug/m³ Air	0 9	25	11K0093	AUJ0241-09	11/09/11 4:46
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Hexane	**1.49**	**J**	**1.43**	ug/m³ Air	4	25	11K0093	AUJ0241-09	11/09/11 4:46
Chloroform	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Benzene	**1.98**	**J**	**1.92**	ug/m³ Air	3	25	11K0093	AUJ0241-09	11/09/11 4:46
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Cyclohexane	**0.735**	**J**	**0.799**	ug/m³ Air	8	25	11K0093	AUJ0241-09	11/09/11 4:46
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11K0093-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Bromodichloromethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Trichloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Heptane	**0.608**	**J**	**0.693**	ug/m³ Air	13	25	11K0093	AUJ0241-09	11/09/11 4:46
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Toluene	**100**		**100**	ug/m³ Air	0 05	25	11K0093	AUJ0241-09	11/09/11 4:46
2-Hexanone	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
n-Octane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Tetrachloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Chlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Ethylbenzene	**0.743**	**J**	**0.672**	ug/m³ Air	10	25	11K0093	AUJ0241-09	11/09/11 4:46
m-Xylene & p-Xylene	**1.80**	**J**	**1.77**	ug/m³ Air	2	25	11K0093	AUJ0241-09	11/09/11 4:46
Bromoform	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Styrene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
o-Xylene	**0 909**	**J**	**0 868**	ug/m³ Air	5	25	11K0093	AUJ0241-09	11/09/11 4:46
n-Nonane	**4.03**	**J**	**4.07**	ug/m³ Air	0 8	25	11K0093	AUJ0241-09	11/09/11 4:46
Isopropylbenzene	ND		ND	ug/m³ Air		50	11K0093	AUJ0241-09	11/09/11 4:46
n-Propylbenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Benzyl chloride	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
n-Decane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
n-Undecane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Naphthalene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-09	11/09/11 4:46

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11K0093-DUP1 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*97%*						11K0093		11/09/11 4:46
Surr: Fluorobenzene (46-118%)	*82%*						11K0093		11/09/11 4:46
Surr: Toluene-d8 (70-136%)	*108%*						11K0093		11/09/11 4:46
Surr: 1,4-Dichlorobutane (38-135%)	*103%*						11K0093		11/09/11 4:46
Surr: 4-Bromofluorobenzene (51-128%)	*99%*						11K0093		11/09/11 4:46
Sample ID: 11K0093-DUP2 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Chlorodifluoromethane	**3.79**		**4.12**	ug/m³ Air	8	25	11K0093	AUJ0241-10	11/09/11 6:48
Dichlorodifluoromethane	**2.62**	**J**	**2.85**	ug/m³ Air	9	25	11K0093	AUJ0241-10	11/09/11 6:48
Chloromethane	**1.12**	**J**	**1.21**	ug/m³ Air	8	25	11K0093	AUJ0241-10	11/09/11 6:48
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Vinyl chloride	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,3-Butadiene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Butane	**8.60**		**9.33**	ug/m³ Air	8	25	11K0093	AUJ0241-10	11/09/11 6:48
Bromomethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Chloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Acetonitrile	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Trichlorofluoromethane	**1.76**	**J**	**1.78**	ug/m³ Air	1	25	11K0093	AUJ0241-10	11/09/11 6:48
Acetone	**107**	**B**	**118**	ug/m³ Air	10	25	11K0093	AUJ0241-10	11/09/11 6:48
Acrylonitrile	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
n-Pentane	**3.56**		**3.89**	ug/m³ Air	9	25	11K0093	AUJ0241-10	11/09/11 6:48
Diethyl ether	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,1-Dichloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Methylene chloride	**0.618**	**J**	**0.678**	ug/m³ Air	9	25	11K0093	AUJ0241-10	11/09/11 6:48
Carbon disulfide	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Allyl chloride	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,1,2-Trichlorotrifluoroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
trans-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,1-Dichloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Methyl tert-Butyl Ether	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Vinyl acetate	ND		ND	ug/m³ Air		50	11K0093	AUJ0241-10	11/09/11 6:48

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11K0093-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
2-Butanone (MEK)	**1.05**	**J**	**1.07**	ug/m³ Air	2	25	11K0093	AUJ0241-10	11/09/11 6:48
cis-1,2-Dichloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Hexane	**1.37**	**J**	**1.30**	ug/m³ Air	5	25	11K0093	AUJ0241-10	11/09/11 6:48
Chloroform	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,2-Dichloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,1,1-Trichloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Benzene	**2.04**	**J**	**1.94**	ug/m³ Air	5	25	11K0093	AUJ0241-10	11/09/11 6:48
Carbon tetrachloride	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Cyclohexane	**0.776**	**J**	**0 832**	ug/m³ Air	7	25	11K0093	AUJ0241-10	11/09/11 6:48
1,2-Dichloropropane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Bromodichloromethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Trichloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Heptane	**0.631**	**J**	**0 583**	ug/m³ Air	8	25	11K0093	AUJ0241-10	11/09/11 6:48
cis-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
4-Methyl-2-pentanone (MIBK)	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
trans-1,3-Dichloropropene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,1,2-Trichloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Toluene	**81.1**		**70.6**	ug/m³ Air	14	25	11K0093	AUJ0241-10	11/09/11 6:48
2-Hexanone	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Chlorodibromomethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,2-Dibromoethane (EDB)	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
n-Octane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Tetrachloroethene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Chlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Ethylbenzene	**0.775**	**J**	**0.657**	ug/m³ Air	17	25	11K0093	AUJ0241-10	11/09/11 6:48
m-Xylene & p-Xylene	**1.85**	**J**	**1.67**	ug/m³ Air	10	25	11K0093	AUJ0241-10	11/09/11 6:48
Bromoform	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Styrene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,1,2,2-Tetrachloroethane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
o-Xylene	**0 910**	**J**	**0 822**	ug/m³ Air	10	25	11K0093	AUJ0241-10	11/09/11 6:48
n-Nonane	**3.16**	**J**	**2.88**	ug/m³ Air	9	25	11K0093	AUJ0241-10	11/09/11 6:48
Isopropylbenzene	ND		ND	ug/m³ Air		50	11K0093	AUJ0241-10	11/09/11 6:48
n-Propylbenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,3,5-Trimethylbenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: AUJ0241 Project: Bannister Complex Project Number: [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07	

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed
Sample ID: 11K0093-DUP2 (Duplicate - Air) - cont.									
EPA TO15 - Volatile Organic Compounds by GC/MS									
1,2,4-Trimethylbenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Benzyl chloride	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,3-Dichlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
n-Decane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,4-Dichlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,2-Dichlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
n-Undecane	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
1,2,4-Trichlorobenzene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Naphthalene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Hexachlorobutadiene	ND		ND	ug/m³ Air		25	11K0093	AUJ0241-10	11/09/11 6:48
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*95%*						11K0093		11/09/11 6:48
Surr: Fluorobenzene (46-118%)	*79%*						11K0093		11/09/11 6:48
Surr: Toluene-d8 (70-136%)	*103%*						11K0093		11/09/11 6:48
Surr: 1,4-Dichlorobutane (38-135%)	*105%*						11K0093		11/09/11 6:48
Surr: 4-Bromofluorobenzene (51-128%)	*100%*						11K0093		11/09/11 6:48
Sample ID: 11K0145-DUP1 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*98%*						11K0145		11/11/11 18:23
Surr: Fluorobenzene (46-118%)	*88%*						11K0145		11/11/11 18:23
Surr: Toluene-d8 (70-136%)	*98%*						11K0145		11/11/11 18:23
Surr: 1,4-Dichlorobutane (38-135%)	*81%*						11K0145		11/11/11 18:23
Surr: 4-Bromofluorobenzene (51-128%)	*95%*						11K0145		11/11/11 18:23
Sample ID: 11K0145-DUP2 (Duplicate - Air)									
EPA TO15 - Volatile Organic Compounds by GC/MS									
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*99%*						11K0145		11/11/11 20:23
Surr: Fluorobenzene (46-118%)	*87%*						11K0145		11/11/11 20:23
Surr: Toluene-d8 (70-136%)	*104%*						11K0145		11/11/11 20:23
Surr: 1,4-Dichlorobutane (38-135%)	*81%*						11K0145		11/11/11 20:23
Surr: 4-Bromofluorobenzene (51-128%)	*96%*						11K0145		11/11/11 20:23

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Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]		Received: Reported:	10/19/11 08:30 11/15/11 15:07

PROJECT QUALITY CONTROL DATA

Duplicate - Cont.

Analyte	Orig.	Data Qualifier	Duplicate	Units	RPD	Limit	QC Batch	Sample Duplicated	Date Analyzed

Sample ID: 11K0145-DUP2 (Duplicate - Air) - cont.

EPA TO15 - Volatile Organic Compounds by GC/MS

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PROJECT QUALITY CONTROL DATA

LCS

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11K0093-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Chlorodifluoromethane	38 9		ug/m³ Air	1 41	2 00	38 3	101%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Dichlorodifluoromethane	47 4		ug/m³ Air	1 98	2 00	52 0	91%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Chloromethane	21 9		ug/m³ Air	0 826	2 00	21 9	100%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	60 7		ug/m³ Air	2 80	2 00	73 5	83%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Vinyl chloride	26 4		ug/m³ Air	1 02	2 00	27 2	97%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,3-Butadiene	25 8		ug/m³ Air	0 885	2 00	24 0	108%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Butane	23 1		ug/m³ Air	0 951	2 00	24 2	96%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Bromomethane	39 7		ug/m³ Air	1 55	2 00	40 8	97%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Chloroethane	29 5		ug/m³ Air	1 06	2 00	27 4	108%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Acetonitrile	23 2		ug/m³ Air	0 672	2 00	17 7	131%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Trichlorofluoromethane	58 6		ug/m³ Air	2 25	2 00	60 2	97%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Acetone	33 8	B	ug/m³ Air	0 950	2 00	25 7	132%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Acrylonitrile	30 0		ug/m³ Air	0 868	2 00	23 5	128%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
n-Pentane	33 5		ug/m³ Air	1 18	2 00	32 0	105%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Diethyl ether	40 1		ug/m³ Air	1 21	2 00	32 8	122%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,1-Dichloroethene	45 1		ug/m³ Air	1 59	2 00	43 3	104%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Methylene chloride	41 7		ug/m³ Air	1 39	2 00	37 2	112%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Carbon disulfide	25 6		ug/m³ Air	1 25	2 00	34 0	75%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Allyl chloride	37 0		ug/m³ Air	1 25	2 00	33 6	110%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,1,2-Trichlorotrifluoroethane	83 7		ug/m³ Air	3 07	2 00	84 6	99%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
trans-1,2-Dichloroethene	42 6		ug/m³ Air	1 59	2 00	42 1	101%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,1-Dichloroethane	48 1		ug/m³ Air	1 62	2 00	44 2	109%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Methyl tert-Butyl Ether	45 5		ug/m³ Air	1 44	2 00	39 8	114%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Vinyl acetate	49 7		ug/m³ Air	1 41	2 00	40 0	124%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
2-Butanone (MEK)	39 4		ug/m³ Air	1 18	2 00	33 5	118%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
cis-1,2-Dichloroethene	46 8		ug/m³ Air	1 59	2 00	44 2	106%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Hexane	38 7		ug/m³ Air	1 41	2 00	40 8	95%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Chloroform	55 1		ug/m³ Air	1 95	2 00	52 3	105%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,2-Dichloroethane	50 1		ug/m³ Air	1 62	2 00	44 2	113%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,1,1-Trichloroethane	59 4		ug/m³ Air	2 18	2 00	59 1	101%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Benzene	41 6		ug/m³ Air	1 28	2 00	34 9	119%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Carbon tetrachloride	71 3		ug/m³ Air	2 52	2 00	71 4	100%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Cyclohexane	39 4		ug/m³ Air	1 38	2 00	38 4	103%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,2-Dichloropropane	67 6		ug/m³ Air	1 85	2 00	51 0	133%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Bromodichloromethane	89 7		ug/m³ Air	2 68	2 00	74 6	120%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Trichloroethene	56 9		ug/m³ Air	2 15	2 00	59 9	95%	50 - 150	GCMSR1	11/08/11 11:52	11K0093

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PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11K0093-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Heptane	48 3		ug/m³ Air	1 64	2 00	45 7	106%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
cis-1,3-Dichloropropene	64 0		ug/m³ Air	1 82	2 00	51 5	124%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
4-Methyl-2-pentanone (MIBK)	55 3		ug/m³ Air	1 64	2 00	47 0	118%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
trans-1,3-Dichloropropene	59 2		ug/m³ Air	1 82	2 00	47 2	125%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,1,2-Trichloroethane	74 8		ug/m³ Air	2 18	2 00	60 2	124%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Toluene	53 0		ug/m³ Air	1 51	2 00	42 0	126%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
2-Hexanone	61 6		ug/m³ Air	1 64	2 00	46 5	133%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Chlorodibromomethane	116		ug/m³ Air	3 41	2 00	95 8	121%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,2-Dibromoethane (EDB)	102		ug/m³ Air	3 07	2 00	84 8	121%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
n-Octane	61 6		ug/m³ Air	1 87	2 00	50 1	123%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Tetrachloroethene	82 6		ug/m³ Air	2 71	2 00	70 5	117%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Chlorobenzene	64 0		ug/m³ Air	1 84	2 00	51 8	124%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Ethylbenzene	62 4		ug/m³ Air	1 74	2 00	48 4	129%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
m-Xylene & p-Xylene	123		ug/m³ Air	3 47	2 00	94 9	130%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Bromoform	150		ug/m³ Air	4 13	2 00	113	133%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Styrene	60 3		ug/m³ Air	1 70	2 00	47 9	126%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,1,2,2-Tetrachloroethane	97 5		ug/m³ Air	2 75	2 00	77 9	125%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
o-Xylene	61 7		ug/m³ Air	1 74	2 00	49 3	125%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
n-Nonane	74 6		ug/m³ Air	2 10	2 00	56 2	133%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Isopropylbenzene	62 9		ug/m³ Air	1 97	2 00	52 2	120%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
n-Propylbenzene	66 0		ug/m³ Air	1 97	2 00	51 7	128%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,3,5-Trimethylbenzene	66 6		ug/m³ Air	1 97	2 00	54 3	123%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,2,4-Trimethylbenzene	68 3		ug/m³ Air	1 97	2 00	53 7	127%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Benzyl chloride	**108**	**L1**	**ug/m³ Air**	**2.07**	**2.00**	**58.2**	**185%**	**50 - 150**	**GCMSR1**	**11/08/11 11:52**	**11K0093**
1,3-Dichlorobenzene	78 0		ug/m³ Air	2 40	2 00	67 6	115%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
n-Decane	81 7		ug/m³ Air	2 33	2 00	63 6	129%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,4-Dichlorobenzene	78 6		ug/m³ Air	2 40	2 00	65 7	120%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,2-Dichlorobenzene	80 8		ug/m³ Air	2 40	2 00	67 6	120%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
n-Undecane	77 3		ug/m³ Air	2 56	2 00	69 9	111%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
1,2,4-Trichlorobenzene	59 2		ug/m³ Air	2 97	2 00	85 1	70%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Naphthalene	42 5		ug/m³ Air	2 10	2 00	56 8	75%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Hexachlorobutadiene	88 5		ug/m³ Air	4 27	2 00	119	74%	50 - 150	GCMSR1	11/08/11 11:52	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*102%*								GCMSR1	11/08/11 11:52	11K0093
Surr: Fluorobenzene (46-118%)	*95%*								GCMSR1	11/08/11 11:52	11K0093
Surr: Toluene-d8 (70-136%)	*100%*								GCMSR1	11/08/11 11:52	11K0093

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PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 11K0093-BS1 (LCS - Air) - cont.											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Surr: 1,4-Dichlorobutane (38-135%)	*108%*								GCMSR1	11/08/11 11:52	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*101%*								GCMSR1	11/08/11 11:52	11K0093
Sample ID: 11K0145-BS1 (LCS - Air)											
EPA TO15 - Volatile Organic Compounds by GC/MS											
Acetone	31 3	B	ug/m³ Air	0 950	2 00	25 9	121%	50 - 150	VMSC	11/11/11 11:33	11K0145
cis-1,2-Dichloroethene	47 5		ug/m³ Air	1 59	2 00	44 5	107%	50 - 150	VMSC	11/11/11 11:33	11K0145
Trichloroethene	67 5		ug/m³ Air	2 15	2 00	60 4	112%	50 - 150	VMSC	11/11/11 11:33	11K0145
Tetrachloroethene	90 4		ug/m³ Air	2 71	2 00	71 1	127%	50 - 150	VMSC	11/11/11 11:33	11K0145
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*99%*								VMSC	11/11/11 11:33	11K0145
Surr: Fluorobenzene (46-118%)	*104%*								VMSC	11/11/11 11:33	11K0145
Surr: Toluene-d8 (70-136%)	*95%*								VMSC	11/11/11 11:33	11K0145
Surr: 1,4-Dichlorobutane (38-135%)	*94%*								VMSC	11/11/11 11:33	11K0145
Surr: 4-Bromofluorobenzene (51-128%)	*99%*								VMSC	11/11/11 11:33	11K0145

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PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	RPD	Limit	Date Analyzed	QC Batch
Sample ID: 11K0093-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Chlorodifluoromethane	38 7		ug/m³ Air	1 41	2 00	38 3	101%	50 - 150	0 3	25	11/08/11 12:53	11K0093
Dichlorodifluoromethane	47 3		ug/m³ Air	1 98	2 00	52 0	91%	50 - 150	0 1	25	11/08/11 12:53	11K0093
Chloromethane	22 2		ug/m³ Air	0 826	2 00	21 9	101%	50 - 150	1	25	11/08/11 12:53	11K0093
1,2-Dichloro-1,1,2,2-tetrafluoroethane	60 8		ug/m³ Air	2 80	2 00	73 5	83%	50 - 150	0 2	25	11/08/11 12:53	11K0093
Vinyl chloride	26 2		ug/m³ Air	1 02	2 00	27 2	96%	50 - 150	0 7	25	11/08/11 12:53	11K0093
1,3-Butadiene	26 2		ug/m³ Air	0 885	2 00	24 0	109%	50 - 150	1	25	11/08/11 12:53	11K0093
Butane	23 4		ug/m³ Air	0 951	2 00	24 2	97%	50 - 150	1	25	11/08/11 12:53	11K0093
Bromomethane	40 0		ug/m³ Air	1 55	2 00	40 8	98%	50 - 150	0 8	25	11/08/11 12:53	11K0093
Chloroethane	29 7		ug/m³ Air	1 06	2 00	27 4	108%	50 - 150	0 6	25	11/08/11 12:53	11K0093
Acetonitrile	23 6		ug/m³ Air	0 672	2 00	17 7	134%	50 - 150	2	25	11/08/11 12:53	11K0093
Trichlorofluoromethane	58 8		ug/m³ Air	2 25	2 00	60 2	98%	50 - 150	0 4	25	11/08/11 12:53	11K0093
Acetone	34 5	B	ug/m³ Air	0 950	2 00	25 7	134%	50 - 150	2	25	11/08/11 12:53	11K0093
Acrylonitrile	30 1		ug/m³ Air	0 868	2 00	23 5	128%	50 - 150	0 2	25	11/08/11 12:53	11K0093
n-Pentane	33 7		ug/m³ Air	1 18	2 00	32 0	105%	50 - 150	0 5	25	11/08/11 12:53	11K0093
Diethyl ether	40 7		ug/m³ Air	1 21	2 00	32 8	124%	50 - 150	2	25	11/08/11 12:53	11K0093
1,1-Dichloroethene	45 3		ug/m³ Air	1 59	2 00	43 3	105%	50 - 150	0 6	25	11/08/11 12:53	11K0093
Methylene chloride	42 2		ug/m³ Air	1 39	2 00	37 2	113%	50 - 150	1	25	11/08/11 12:53	11K0093
Carbon disulfide	25 8		ug/m³ Air	1 25	2 00	34 0	76%	50 - 150	0 6	25	11/08/11 12:53	11K0093
Allyl chloride	37 5		ug/m³ Air	1 25	2 00	33 6	112%	50 - 150	1	25	11/08/11 12:53	11K0093
1,1,2-Trichlorotrifluoroethane	84 8		ug/m³ Air	3 07	2 00	84 6	100%	50 - 150	1	25	11/08/11 12:53	11K0093
trans-1,2-Dichloroethene	43 1		ug/m³ Air	1 59	2 00	42 1	102%	50 - 150	1	25	11/08/11 12:53	11K0093
1,1-Dichloroethane	48 9		ug/m³ Air	1 62	2 00	44 2	111%	50 - 150	2	25	11/08/11 12:53	11K0093
Methyl tert-Butyl Ether	46 2		ug/m³ Air	1 44	2 00	39 8	116%	50 - 150	1	25	11/08/11 12:53	11K0093
Vinyl acetate	50 7		ug/m³ Air	1 41	2 00	40 0	127%	50 - 150	2	50	11/08/11 12:53	11K0093
2-Butanone (MEK)	40 0		ug/m³ Air	1 18	2 00	33 5	119%	50 - 150	1	25	11/08/11 12:53	11K0093
cis-1,2-Dichloroethene	47 2		ug/m³ Air	1 59	2 00	44 2	107%	50 - 150	0 9	25	11/08/11 12:53	11K0093
Hexane	39 3		ug/m³ Air	1 41	2 00	40 8	96%	50 - 150	1	25	11/08/11 12:53	11K0093
Chloroform	55 5		ug/m³ Air	1 95	2 00	52 3	106%	50 - 150	0 7	25	11/08/11 12:53	11K0093
1,2-Dichloroethane	50 8		ug/m³ Air	1 62	2 00	44 2	115%	50 - 150	1	25	11/08/11 12:53	11K0093
1,1,1-Trichloroethane	60 1		ug/m³ Air	2 18	2 00	59 1	102%	50 - 150	1	25	11/08/11 12:53	11K0093
Benzene	40 9		ug/m³ Air	1 28	2 00	34 9	117%	50 - 150	2	25	11/08/11 12:53	11K0093
Carbon tetrachloride	69 8		ug/m³ Air	2 52	2 00	71 4	98%	50 - 150	2	25	11/08/11 12:53	11K0093
Cyclohexane	38 3		ug/m³ Air	1 38	2 00	38 4	100%	50 - 150	3	25	11/08/11 12:53	11K0093
1,2-Dichloropropane	66 6		ug/m³ Air	1 85	2 00	51 0	131%	50 - 150	2	25	11/08/11 12:53	11K0093
Bromodichloromethane	88 2		ug/m³ Air	2 68	2 00	74 6	118%	50 - 150	2	25	11/08/11 12:53	11K0093
Trichloroethene	56 5		ug/m³ Air	2 15	2 00	59 9	94%	50 - 150	0 8	25	11/08/11 12:53	11K0093

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PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	RPD	Limit	Date Analyzed	QC Batch
Sample ID: 11K0093-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Heptane	47 3		ug/m³ Air	1 64	2 00	45 7	104%	50 - 150	2	25	11/08/11 12:53	11K0093
cis-1,3-Dichloropropene	62 9		ug/m³ Air	1 82	2 00	51 5	122%	50 - 150	2	25	11/08/11 12:53	11K0093
4-Methyl-2-pentanone (MIBK)	54 9		ug/m³ Air	1 64	2 00	47 0	117%	50 - 150	0 7	25	11/08/11 12:53	11K0093
trans-1,3-Dichloropropene	58 2		ug/m³ Air	1 82	2 00	47 2	123%	50 - 150	2	25	11/08/11 12:53	11K0093
1,1,2-Trichloroethane	74 4		ug/m³ Air	2 18	2 00	60 2	124%	50 - 150	0 5	25	11/08/11 12:53	11K0093
Toluene	52 9		ug/m³ Air	1 51	2 00	42 0	126%	50 - 150	0 2	25	11/08/11 12:53	11K0093
2-Hexanone	61 3		ug/m³ Air	1 64	2 00	46 5	132%	50 - 150	0 5	25	11/08/11 12:53	11K0093
Chlorodibromomethane	116		ug/m³ Air	3 41	2 00	95 8	121%	50 - 150	0 1	25	11/08/11 12:53	11K0093
1,2-Dibromoethane (EDB)	102		ug/m³ Air	3 07	2 00	84 8	120%	50 - 150	0 7	25	11/08/11 12:53	11K0093
n-Octane	59 9		ug/m³ Air	1 87	2 00	50 1	120%	50 - 150	3	25	11/08/11 12:53	11K0093
Tetrachloroethene	81 4		ug/m³ Air	2 71	2 00	70 5	115%	50 - 150	1	25	11/08/11 12:53	11K0093
Chlorobenzene	64 0		ug/m³ Air	1 84	2 00	51 8	124%	50 - 150	0 09	25	11/08/11 12:53	11K0093
Ethylbenzene	63 1		ug/m³ Air	1 74	2 00	48 4	130%	50 - 150	1	25	11/08/11 12:53	11K0093
m-Xylene & p-Xylene	124		ug/m³ Air	3 47	2 00	94 9	131%	50 - 150	0 9	25	11/08/11 12:53	11K0093
Bromoform	152		ug/m³ Air	4 13	2 00	113	134%	50 - 150	1	25	11/08/11 12:53	11K0093
Styrene	61 1		ug/m³ Air	1 70	2 00	47 9	127%	50 - 150	1	25	11/08/11 12:53	11K0093
1,1,2,2-Tetrachloroethane	97 0		ug/m³ Air	2 75	2 00	77 9	125%	50 - 150	0 5	25	11/08/11 12:53	11K0093
o-Xylene	61 9		ug/m³ Air	1 74	2 00	49 3	126%	50 - 150	0 2	25	11/08/11 12:53	11K0093
n-Nonane	73 4		ug/m³ Air	2 10	2 00	56 2	131%	50 - 150	2	25	11/08/11 12:53	11K0093
Isopropylbenzene	63 3		ug/m³ Air	1 97	2 00	52 2	121%	50 - 150	0 7	50	11/08/11 12:53	11K0093
n-Propylbenzene	66 2		ug/m³ Air	1 97	2 00	51 7	128%	50 - 150	0 3	25	11/08/11 12:53	11K0093
1,3,5-Trimethylbenzene	66 7		ug/m³ Air	1 97	2 00	54 3	123%	50 - 150	0 1	25	11/08/11 12:53	11K0093
1,2,4-Trimethylbenzene	69 3		ug/m³ Air	1 97	2 00	53 7	129%	50 - 150	2	25	11/08/11 12:53	11K0093
Benzyl chloride	**108**	**L1**	**ug/m³ Air**	**2.07**	**2.00**	**58.2**	**186%**	**50 - 150**	**0.6**	**25**	**11/08/11 12:53**	**11K0093**
1,3-Dichlorobenzene	79 1		ug/m³ Air	2 40	2 00	67 6	117%	50 - 150	1	25	11/08/11 12:53	11K0093
n-Decane	82 3		ug/m³ Air	2 33	2 00	63 6	129%	50 - 150	0 7	25	11/08/11 12:53	11K0093
1,4-Dichlorobenzene	79 8		ug/m³ Air	2 40	2 00	65 7	121%	50 - 150	2	25	11/08/11 12:53	11K0093
1,2-Dichlorobenzene	80 4		ug/m³ Air	2 40	2 00	67 6	119%	50 - 150	0 5	25	11/08/11 12:53	11K0093
n-Undecane	72 6		ug/m³ Air	2 56	2 00	69 9	104%	50 - 150	6	25	11/08/11 12:53	11K0093
1,2,4-Trichlorobenzene	52 4		ug/m³ Air	2 97	2 00	85 1	62%	50 - 150	12	25	11/08/11 12:53	11K0093
Naphthalene	37 3		ug/m³ Air	2 10	2 00	56 8	66%	50 - 150	13	25	11/08/11 12:53	11K0093
Hexachlorobutadiene	79 7		ug/m³ Air	4 27	2 00	119	67%	50 - 150	10	25	11/08/11 12:53	11K0093
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*101%*										11/08/11 12:53	11K0093
Surr: Fluorobenzene (46-118%)	*96%*										11/08/11 12:53	11K0093
Surr: Toluene-d8 (70-136%)	*99%*										11/08/11 12:53	11K0093

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
14050 Summit Drive, Suite A100 Austin, TX 78728 * 512-244-0855 * Fax 512-244-0160

Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	RPD	Limit	Date Analyzed	QC Batch
Sample ID: 11K0093-BSD1 (LCS Dup - Air) - cont.												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Surr: 1,4-Dichlorobutane (38-135%)	*108%*										11/08/11 12:53	11K0093
Surr: 4-Bromofluorobenzene (51-128%)	*101%*										11/08/11 12:53	11K0093
Sample ID: 11K0145-BSD1 (LCS Dup - Air)												
EPA TO15 - Volatile Organic Compounds by GC/MS												
Acetone	30 8	B	ug/m³ Air	0 950	2 00	25 9	119%	50 - 150	2	25	11/11/11 12:31	11K0145
cis-1,2-Dichloroethene	46 8		ug/m³ Air	1 59	2 00	44 5	105%	50 - 150	1	25	11/11/11 12:31	11K0145
Trichloroethene	64 0		ug/m³ Air	2 15	2 00	60 4	106%	50 - 150	5	25	11/11/11 12:31	11K0145
Tetrachloroethene	86 0		ug/m³ Air	2 71	2 00	71 1	121%	50 - 150	5	25	11/11/11 12:31	11K0145
Surr: 2-Bromo-1,1,1-trifluoroethane (58-131%)	*104%*										11/11/11 12:31	11K0145
Surr: Fluorobenzene (46-118%)	*106%*										11/11/11 12:31	11K0145
Surr: Toluene-d8 (70-136%)	*92%*										11/11/11 12:31	11K0145
Surr: 1,4-Dichlorobutane (38-135%)	*93%*										11/11/11 12:31	11K0145
Surr: 4-Bromofluorobenzene (51-128%)	*98%*										11/11/11 12:31	11K0145

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
14050 Summit Drive, Suite A100 Austin, TX 78728 * 512-244-0855 * Fax 512-244-0160

Terracon Consulting Eng. & Scientists-Lenexa 13910 W 96th Terrace Lenexa, KS 66215 Wil W. King	Work Order: Project: Project Number:	AUJ0241 Bannister Complex [none]	Received: 10/19/11 08:30 Reported: 11/15/11 15:07

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
C8	Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
RA	Results are from a second analysis of the sample.
ND	Not detected.

TestAmerica – Austin Laboratory Chain of Custody Addendum **Work Order Number** AUJ0241

RECEIVED BY: RL. CLIENT: Terracon. - Lenexa

DATE/TIME RECEIVED: 10/19/11 0830 PROJECT: Bannister Complex

UNPACKED DATE/TIME: 10/19/11 1245 LOGIN BY: [illegible] LOGIN REVIEWED BY: RM

Number of Shipping Containers Received with COC: 3

VOC SAMPLES: ☑ YES **(IF YES, GO TO SECTIONS 1.0, 2.0, 6.0, & 7.0)**

1.0 CONTAINERS EXAMINED UPON RECEIPT: RL.

Container Sealed: ☑ YES ☐ NO Custody Seal Present: ☐ YES ☑ NO Custody Seal Signed/Dated: ☐ YES ☑ NO

If seal not intact list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: RL.

Canister Valves Closed: ☑ YES ☐ NO Canister Valves Capped: ☑ YES ☐ NO

Sample IDs match COC: ☑ YES ☐ NO Other Equipment Received: ☑ YES ☐ NO

Valve Cap Tightened Properly: ☑ YES ☐ NO Can Size: ☑ 6L ☐ 1L Other: _____

Packing Material Used: (circle) None / Absorbent / Paper / Bubble Wrap 9- Flow Controllers.

Samples received in Tedlar bags ☐ N/A ☐ YES ☑ NO

3.0 CONDITION OF BOTTLES/CONTAINERS **VERIFIED BY:** _____

Sample IDs match COC: ☐ YES ☐ NO Bottles received intact: ☐ YES ☐ NO

See additional discrepancies/comments section: ☐ YES ☐ NO Samples received from USDA restricted area: ☐ YES ☐ NO

Chain-of-Custody form properly maintained: ☐ YES ☐ NO VOA trip blanks included: ☐ N/A ☐ YES ☐ NO

4.0 SAMPLE TEMPERATURE UPON RECEIPT BY: _____ **IR THERMOMETER #:** ☐ P5 ☐ P7

Container(s) temperature: TB = Temp. Blank and/or SC = Sample Container CF = Correction Factor ***[acceptable tolerance ≤6°C]***

TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐	TB ☐ SC ☐
Initial	Initial	Initial	Initial	Initial	Initial	Initial	Initial
CF	CF	CF	CF	CF	CF	CF	CF
Final	Final	Final	Final	Final	Final	Final	Final

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____ OK to analyze samples: ☐ YES ☐ NO

5.0 PRESERVATION CHECKS

PRESERVATION OF SAMPLES REQUIRED: ☐ N/A ☐ YES ☐ VOA Samples **VERIFIED BY:** _____

NOTE: pH CHECK OF SAMPLES PERFORMED AT TIME OF ANALYSIS BY BENCH ANALYST

pH CHECK OF VOLATILE SAMPLES PERFORMED AFTER ANALYSIS BY THE BENCH ANALYST.

Cyanide samples checked for sulfides: ☐ YES ☐ NO

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Chlorine checked per specification (EPA 335.x & N.C.) ☐ YES ☐ NO Free chlorine present: ☐ YES ☐ NO

If preservation is outside acceptable limit, PM notified (_____PM) Date/Time: _____

Volatile samples filled completely: ☐ YES ☐ NO [if no, list ID and approx. amt. of headspace (>6mm) in Comments Section 7.0]

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

_____

_____

_____

8.0 CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

Project Management Login Review: JNS for DW Date: 10/25/11

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE Revised 07/26/11

47/238

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

AUJ0241

TestAmerica Austin
14050 Summit Dr.
Suite A-100
Austin, TX 78728
phone: 512-244-0855 fax: 512-244-0160

Client Contact Information	Project Manager: Wil King		1 of 1 COCs
Company: Terracon Consultants Inc	Phone: 913-492-7777	Samples Collected By: CSC + WWK	
Address: 13910 West 96th Terrace	Email: wwking@terracon.com		
City/State/Zip Lenexa Kansas 66215			
Phone: 913-492-7777	Site Contact:		
FAX: 913-492-7443	LAB Contact:		
Project Name: Bannister Complex	Analysis Turnaround Time		
Site: Building 4	Standard (Specify) X		
PO # 02107144	Rush (Specity)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
B4-Blank-VOCs	10-15-11	—	—	—	—	—	R10886	X												X
	CSC																			

Special Instructions/QC Requirements & Comments:
Other Sample Type = Blank

Samples Shipped by:	Date/Time: 10-18-11 / 1530	Samples Received by: [illegible] 10/19/11 0830
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

TAL-4143 (0608)

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

TestAmerica Austin
14050 Summit Dr.
Suite A-100
Austin, TX 78728
phone: 512-244-0855 fax: 512-244-0160

1 of 1 COCs

Client Contact Information	Project Manager: Wil King
Company: Terracon Consultants Inc	Phone: 913-492-7777
Address: 13910 West 96th Terrace	Email: wlking@terracon.com
City/State/Zip Lenexa, Kansas 66215	
Phone: 913-492-7777	Site Contact:
FAX: 913-492-7443	LAB Contact:
Project Name: Bannister Complex	Analysis Turnaround Time
Site: Building 4	Standard (Specify) X
PO # 02107144	Rush (Specity)

Samples Collected By: CSC + WWK

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specity in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
B4-Dup-VOCs	10-14-11 + 10-15-11	1954	1954	28	4	7289097	RA2257	X												X
B4-OA1-VOCs		2000	1621	29	2	7340650	RA2269	X									X			
B4-OA2-VOCs		1959	1959	>30	8	7343485	1001	X									X			
	CSC																			

Special Instructions/QC Requirements & Comments:
Other Sample Type – Duplicate

Samples Shipped by:	Date/Time: 10-18-11/1530	Samples Received by: Rick Tech 10/19/11 0830
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

TAL-4143 (0608)

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

TestAmerica Austin
14050 Summit Dr.
Suite A-100
Austin, TX 78728
phone: 512-244-0855 fax: 512-244-0160

1 of 1 COCs

Client Contact Information

Company: Terracon Consultants Inc
Address: 13910 West 96th Terrace
City/State/Zip Lenexa, Kansas 66215
Phone: 913-492-7777
FAX: 913-492-7443
Project Name: Bannister Complex
Site: Building 4
PO # 021071444

Project Manager: Wil King
Phone: 913-492-7777
Email: wwking@terracon.com
Site Contact:
LAB Contact:

Analysis Turnaround Time
Standard (Specify) X
Rush (Specity)

Samples Collected By: CSC + WWK

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
B4CS-SS1-VOCs	10-14-11	1814	1910	>30	4	7301138	5425	X												X
B4CS-SS2-VOCs	1	1830	1930	>30	6	7301146	RA2328	X												X
B4CS-CS1-VOCs	10-14-11 + 10-15-11	1951	1634	26	4	7299278	RA2380	X								X				
B4CS-CS2-VOCs		1951	1951	>30	5	7298377	RA2251	X								X				
B4-IA1-VOCs		1953	1953	29	4	7300138	RA0844	X								X				
B4-IA2-VOCs		1954	1954	30	6	5502898	5403	X								X				
	CSC																			

Special Instructions/QC Requirements & Comments:
Other Sample Type = Sub-Slab

Samples Shipped by:	Date/Time: 10-18-11/1530	Samples Received by: Pete Fosth 10/19/11 0830
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

TAL-4143 (0608)

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

TestAmerica Austin

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
7343491	BRIO	GOOD	24HR-70%	DTW 09/29/11	DTW 10/13/11	good	
7300142					DTW 10/10/11	good	
7300947					DTW 10/10/11	good	
7299280					DTW 10/10/11	good	
7300951					DTW 10/10/11	good	
7299277					DTW 10/10/11	good	
7300971					DTW 10/10/11	good	
[illegible]						good	
[illegible]						good	
[illegible]						good	
[illegible]						good	
[illegible]						good	
[illegible]						good	
[illegible]						good	
[illegible]						good	
[illegible]							
[illegible]							
[illegible]						GOOD	
5502891B	TERRACON	GOOD	24HR-7%	DTW 10/13/11	DTW 10/24/11	GOOD	
7340650					DTW 10/24/11	GOOD	
7289097					DTW 10/24/11	GOOD	
7343485					DTW 10/24/11	GOOD	
7298377					DTW 10/24/11	GOOD	

TestAmerica Austin

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
7300138	TERRACON	GOOD	24HR-70%	DTW 10/13/11	DTW 10/24/11	GOOD	
7299278					DTW 10/24/11	GOOD	
7301138			1HR - 70%		DTW 10/24/11	GOOD	
7301146					DTW 10/24/11	GOOD	
7301037	TERRACON	GOOD	24HR-70%	DTW 10/17/11	DTW 10/27/11	GOOD	
7343025					DTW 10/27/11	GOOD	
7343492					DTW 11/02/11	GOOD	
7343491					DTW 11/02/11	GOOD	
7229273					DTW 11/02/11	GOOD	
7343023					DTW 11/02/11	GOOD	
7301137			1HR-70%		DTW 10/27/11	GOOD	
7300950					DTW 10/27/11	GOOD	
7300148					DTW 10/27/11	GOOD	
7301114					DTW 10/27/11	GOOD	
7298375					DTW 10/27/11	GOOD	
7300957		DTW 10/17/11			DTW 10/27/11	GOOD	
7300952	TERRACON	GOOD	24HR-70%	DTW 10/18/11	DTW 11/02/11	GOOD	
7343031					DTW 10/27/11	GOOD	
7300947					DTW 11/02/11	GOOD	
7300971					DTW 11/02/11	GOOD	

TestAmerica Austin

VOC EQUIPMENT SIGN-OUT LOGBOOK

EQUIPMENT NUMBER	CLIENT	CONDITION SHIPPED OUT	CALIBRATED	INITIALS/DATE OUT	INITIALS/DATE RETURNED	CONDITION ON RETURN	COMMENTS
7342987	TERRACON	GOOD	24HR-70%	DTW 10/18/11	DTW 11/02/11	GOOD	
7299277					DTW 10/27/11	Bad gauge	
7300142					DTW 11/02/11	GOOD	
7289063					DTW 10/27/11	GOOD	
7301111					DTW 11/02/11	GOOD	
7300105					DTW 11/02/11	GOOD	
7299282			1HR-70%		DTW 10/27/11	GOOD	
7301142					DTW 10/27/11	GOOD	
7342993	TERRACON	GOOD	24HR-70%	DTW 10/19/11	DTW 10/27/11	GOOD	
7301018					DTW 11/02/11	GOOD	
7300951					DTW 11/02/11	GOOD	
7300948					DTW 10/27/11	GOOD	
7300976					DTW 11/02/11	GOOD	
7299378					DTW 11/02/11	GOOD	
7342868					DTW 11/02/11	GOOD	
7342995					DTW 10/27/11	GOOD	
7299272					DTW 11/02/11	GOOD	
7299280					DTW 11/02/11	GOOD	
7300137					DTW 10/27/11	GOOD	
A003			1HR-70%		DTW 10/27/11	GOOD	
A001					DTW 10/27/11	GOOD	
A016					DTW 10/27/11	GOOD	

VOC PREP REPORT (by Lab Sample ID)

Lab Samp	Canister ID	Prep Date	Initial Pressure (PSIG)	Final Pressure (PSIG)	Final Pressure ("Hg)	Diluent Added	Initial Dilution Factor	Primary Dilution Factor	Final Dilution
AUJ0241-01	RA0886	11/8/2011 4:03:27 PM	-14.34	0	0	16.5	1	2.175732	2.175732
AUJ0241-02	RA2257	11/8/2011 4:03:28 PM	-14.34	-2.455796	5	16.5	1	2.625333	2.625333
AUJ0241-03	RA2263	11/8/2011 4:03:57 PM	-14.34	-0.982318	2	16.5	1	2.335735	2.335735
AUJ0241-04	1001	11/8/2011 4:04:48 PM	-14.34	-2.259332	4.6	16.5	1	2.582639	2.582639
AUJ0241-05	5425	11/7/2011 5:25:02 PM	-14.34	-1.768173	3.6	16.7	1	2.497648	2.497648
AUJ0241-06	RA2328	11/11/2011 5:05:00 PM	0	0	0	58	2.5495	4.945578	12.60875
AUJ0241-06	RA2328	11/7/2011 5:25:07 PM	-14.34	-2.062868	4.2	16.6	1	2.549455	2.549455
AUJ0241-07	RA2380	11/8/2011 4:05:09 PM	-14.34	-4.420432	9	16.6	1	3.155379	3.155379
AUJ0241-08	RA2251	11/8/2011 4:05:44 PM	-14.34	-2.750491	5.6	16.6	1	2.700718	2.700718
AUJ0241-09	RA0844	11/8/2011 4:06:07 PM	-14.34	-2.455796	5	16.8	1	2.650577	2.650577
AUJ0241-10	5403	11/8/2011 4:06:25 PM	-14.34	-2.554027	5.2	16.8	1	2.672669	2.672669

PEER REVIEWED BY DTM

Initial Calibration

Response Factor Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration

Calibration Files
20 =RA102610.D 50 =RA102611.D 100 =RA102612.D
250 =RA102613.D 500 =RA102614.D 750 =RA102615.D

1000 =RA102616.D 20A =RA102619.D 50A =RA102620.D 100A =RA102621.D

		Compound	20	50	100	250	500	750	1000	20A	50A	100A	Avg	%RSD
1)	i	1,1-Dichloro-1-Fluoro	----------ISTD----------											
2)	s	2-Bromo-1,1,1-trifl	0.622	0.635	0.633	0.636	0.629	0.632	0.628	0.625	0.631	0.630	0.62749	1.57
3)	t	Ethylene	0.059	0.067	0.065	0.057	0.057	0.054	0.055				0.05918	8.10
4)	t	Acetylene	0.126	0.128	0.120	0.107	0.110	0.105	0.106				0.11451	8.75
5)	t	Ethane	0.035	0.032	0.027	0.017	0.013						0.02480	37.96
6)	t	Halocarbon 134A								0.404	0.296	0.299	0.33082	11.58
7)	t	Propylene	0.257	0.252	0.236	0.211	0.216	0.209	0.210				0.22732	9.15
8)	t	Chlorodifluorometha								0.576	0.438	0.442	0.47434	10.41
9)	t	Propane	0.117	0.118	0.109	0.097	0.098	0.095	0.096				0.10427	9.87
10)	t	Dichlorodifluoromet	1.218	1.228	1.156	1.020	1.036	0.982	0.991				1.09025	9.85
11)	t	Chloromethane	0.315	0.332	0.322	0.282	0.297	0.285	0.288				0.30308	6.53
12)	t	Isobutane	0.671	0.666	0.636	0.553	0.566	0.542	0.548				0.59759	9.69
13)	t	Halocarbon 114	1.409	1.421	1.347	1.180	1.260	1.186	1.194				1.28528	8.25
14)	t	Acetaldehyde								0.097	0.079	0.089	0.10646	17.29
15)	t	Vinyl chloride	0.439	0.456	0.438	0.387	0.410	0.391	0.398				0.41692	6.53
16)	t	1-Butene/Isobutene	0.391	0.411	0.402	0.358	0.380	0.358	0.364				0.38065	5.66
17)	t	1,3-Butadiene	0.201	0.220	0.211	0.192	0.204	0.195	0.195				0.20254	4.93
18)	t	n-Butane	0.606	0.577	0.546	0.475	0.486	0.459	0.463				0.51609	11.54
19)	t	Methanol								0.064	0.049	0.050	0.05969	12.64
20)	t	trans-2-Butene	0.321	0.350	0.336	0.318	0.340	0.321	0.325				0.33018	3.58
21)	t	Neopentane								1.375	1.135	1.056	1.10880	11.27
22)	t	Dichlorofluorometha								0.852	0.634	0.656	0.75515	12.70
23)	t	Bromomethane	0.458	0.492	0.468	0.421	0.449	0.425	0.430				0.44897	5.78
24)	t	cis-2-Butene	0.323	0.338	0.329	0.311	0.335	0.319	0.321				0.32526	2.91
25)	t	Chloroethane	0.191	0.201	0.205	0.196	0.214	0.205	0.211				0.20325	4.02
26)	t	Vinyl bromide								0.581	0.439	0.439	0.48043	10.62
27)	t	3-Methyl-1-butene	0.673	0.673	0.677	0.661	0.705	0.672	0.685				0.67791	2.04
28)	t	Ethanol								0.124	0.090	0.095	0.10767	11.80
29)	t	Acetonitrile								0.155	0.125	0.143	0.18319	23.11
30)	t	Acrolein								0.079	0.065	0.078	0.09743	23.93
31)	t	Isopentane	0.316	0.321	0.303	0.270	0.285	0.267	0.269				0.29018	7.92
32)	t	Trichlorofluorometh	1.000	1.059	0.996	0.893	0.953	0.894	0.908				0.95753	6.67
33)	t	1-Pentene	0.340	0.348	0.348	0.337	0.355	0.342	0.349				0.34584	1.81
34)	t	Acetone								0.299	0.231	0.250	0.30614	17.15
35)	T	2-Propanol								0.395	0.313	0.321	0.36079	11.36
36)	t	Acrylonitrile								0.126	0.101	0.124	0.15725	25.09
37)	t	n-Pentane	0.542	0.569	0.519	0.481	0.491	0.465	0.472				0.50567	7.70
38)	T	Diethyl ether								0.122	0.110	0.130	0.14985	19.43
39)	t	Isoprene	0.433	0.448	0.449	0.439	0.465	0.443	0.456				0.44752	2.36

40)	t	trans-2-Pentene	0.523	0.556	0.560	0.555	0.581	0.561	0.572				0.55802	3.23
41)	t	1,1-Dichloroethene	0.542	0.558	0.539	0.495	0.526	0.500	0.505				0.52365	4.63
42)	t	cis-2-Pentene	0.537	0.552	0.551	0.550	0.575	0.558	0.571				0.55636	2.37
43)	t	Methylene chloride	0.298	0.335	0.331	0.317	0.340	0.326	0.329				0.32511	4.34
44)	t	2-Methyl-2-butene	0.534	0.554	0.560	0.565	0.582	0.559	0.571				0.56071	2.67
45)	t	Carbon Disulfide								1.613	1.359	1.308	1.37162	8.34
46)	t	3-Chloropropene	0.262	0.276	0.284	0.272	0.292	0.282	0.288				0.27922	3.69
47)	t	Halocarbon 113	0.715	0.743	0.739	0.698	0.749	0.717	0.727				0.72673	2.51
48)	t	Neohexane	0.421	0.426	0.404	0.372	0.398	0.381	0.383				0.39772	5.15
49)	t	Cyclopentene	0.832	0.875	0.859	0.828	0.861	0.829	0.849				0.84750	2.17
50)	t	trans-1,2-Dichloroe	0.464	0.525	0.513	0.465	0.496	0.472	0.481				0.48798	4.95
51)	t	4-Methyl-1-pentene	0.443	0.446	0.447	0.417	0.447	0.428	0.407				0.43349	3.72
52)	T	1-Propanol								0.048	0.042	0.043	0.04973	13.19
53)	t	1,1-Dichloroethane	0.574	0.617	0.616	0.616	0.643	0.619	0.634				0.61702	3.50
54)	t	Cyclopentane	0.585	0.611	0.577	0.534	0.548	0.519	0.528				0.55739	6.16
55)	t	2,3-Dimethylbutane	0.701	0.729	0.702	0.647	0.690	0.659	0.667				0.68490	4.19
56)	T	Methyl tert-butyl e	0.623	0.666	0.706	0.780	0.964	0.963	0.997				0.81408	19.39
57)	t	Isohexane	0.365	0.354	0.345	0.334	0.350	0.331	0.337				0.34503	3.47
58)	t	Vinyl acetate								0.517	0.381	0.458	0.53991	18.32
59)	t	cis-4-Methyl-2-pent								0.831	0.663	0.692	0.74934	8.52
60)	t	trans-4-Methyl-2-pe								0.942	0.747	0.778	0.84162	8.40
61)	T	Butyraldehyde								0.051	0.041	0.049	0.05918	20.86
62)	t	2-Butanone								0.438	0.324	0.379	0.45119	18.16
63)	t	Chloroprene	0.413	0.444	0.430	0.436	0.446	0.433	0.443				0.43514	2.60
64)	t	3-Methylpentane	0.699	0.737	0.725	0.678	0.715	0.679	0.689				0.70302	3.30
65)	s	Fluorobenzene	2.078	2.097	2.107	2.137	2.160	2.043	2.107	2.053	2.076	2.088	2.06429	4.19
66)	t	2-Methyl-1-pentene	0.547	0.545	0.573	0.603	0.599	0.559	0.607				0.57598	4.70
67)	t	1-Hexene	0.206	0.283	0.237	0.260	0.240	0.245	0.228				0.24279	10.03
68)	t	cis-1,2-Dichloroeth	0.421	0.446	0.459	0.443	0.469	0.447	0.458				0.44903	3.45
69)	t	Bromochloromethane	0.377	0.391	0.403	0.391	0.411	0.399	0.407				0.39696	2.96
70)	t	2-Ethyl-1-butene								0.520	0.403	0.434	0.46457	9.26
71)	t	n-Hexane	0.559	0.579	0.558	0.555	0.560	0.540	0.561				0.55876	2.03
72)	t	Chloroform	0.721	0.738	0.741	0.743	0.760	0.734	0.758				0.74210	1.82
73)	t	cis-3-Hexene								0.500	0.378	0.413	0.43826	9.53
74)	t	trans-2-Hexene	0.546	0.561	0.557	0.591	0.587	0.572	0.600				0.57336	3.46
75)	t	2-Methyl-2-pentene								0.501	0.393	0.410	0.43543	8.63
76)	t	cis-3-Methyl-2-pent								0.594	0.480	0.498	0.53360	7.93
77)	t	cis-2-Hexene	0.497	0.509	0.502	0.529	0.530	0.516	0.539				0.51719	3.01
78)	t	Methylcyclopentane	0.754	0.775	0.759	0.718	0.753	0.723	0.739				0.74592	2.71
79)	t	1,2-Dichloroethane	0.282	0.337	0.355	0.372	0.388	0.376	0.390				0.35704	10.66
80)	t	2,4-Dimethylpentane	0.636	0.647	0.649	0.622	0.662	0.636	0.644				0.64217	1.97
81)	t	1,1,1-Trichloroetha	0.752	0.789	0.786	0.767	0.814	0.788	0.802				0.78505	2.63
82)	i	Chlorobenzene-d5	----------ISTD----------											
83)	T	Methylcyclopentene								0.750	0.577	0.601	0.64823	10.31
84)	t	Benzene	0.586	0.628	0.658	0.703	0.661	0.697	0.694				0.66104	6.46
85)	t	Carbon tetrachlorid	0.528	0.509	0.503	0.479	0.475	0.499	0.485				0.49689	3.78
86)	T	1-Butanol								0.168	0.153	0.151	0.16707	13.86
87)	t	Cyclohexane	0.403	0.387	0.377	0.348	0.345	0.359	0.349				0.36672	6.14
88)	t	Isoheptane	0.434	0.412	0.414	0.413	0.409	0.426	0.411				0.41708	2.26
89)	t	2,3-Dimethylpentane	0.437	0.417	0.421	0.400	0.398	0.412	0.396				0.41162	3.58
90)	T	Cyclohexene								0.528	0.411	0.416	0.45943	10.77
91)	t	3-Methylhexane	0.357	0.337	0.338	0.332	0.326	0.340	0.331				0.33728	2.90
92)	t	1,2-Dichloropropane	0.169	0.189	0.199	0.224	0.214	0.232	0.233				0.20848	11.49
93)	t	Bromodichloromethan	0.437	0.444	0.435	0.462	0.417	0.442	0.446				0.44046	3.09

94)	t	Trichloroethene	0.481	0.416	0.388	0.382	0.344	0.360	0.360				0.39008	11.87
95)	T	1,4-Dioxane								0.158	0.145	0.147	0.17007	15.36
96)	T	1-Heptene								0.186	0.162	0.166	0.18074	9.31
97)	t	2,2,4-Trimethylpent	1.201	1.158	1.174	1.132	1.126	1.168	1.130				1.15561	2.41
98)	t	2-Chloropentane	0.275	0.289	0.325	0.351	0.358	0.383	0.381				0.33753	12.69
99)	t	trans-3-Heptene								0.248	0.213	0.229	0.24231	9.52
100)	t	n-Heptane	0.270	0.254	0.246	0.262	0.251	0.268	0.268				0.25962	3.66
101)	T	cis-3-Heptene								0.262	0.221	0.232	0.24756	9.10
102)	T	trans-2-Heptene								0.293	0.235	0.254	0.26947	9.83
103)	T	2,4,4-Trimethyl-1-p								0.772	0.739	0.744	0.79664	8.64
104)	t	cis-1,3-Dichloropro	0.303	0.314	0.316	0.351	0.315	0.344	0.348				0.32716	6.03
105)	T	Methylisobutylketon								0.302	0.243	0.277	0.34128	23.49
106)	t	Methylcyclohexane	0.569	0.546	0.545	0.523	0.518	0.540	0.522				0.53737	3.38
107)	T	2,4,4-Trimethyl-2-p								0.449	0.442	0.444	0.47797	9.34
108)	T	2,5-Dimethylhexane								0.636	0.527	0.539	0.58570	9.56
109)	T	2,2,3-Trimethylpent								1.077	0.904	0.882	0.96161	9.02
110)	t	trans-1,3-Dichlorop	0.250	0.260	0.262	0.298	0.278	0.306	0.313				0.28097	8.89
111)	t	1,1,2-Trichloroetha	0.238	0.240	0.239	0.276	0.250	0.275	0.283				0.25738	7.71
112)	t	2,3,4-Trimethylpent	0.613	0.549	0.561	0.529	0.529	0.545	0.526				0.55043	5.50
113)	s	Toluene-d8	1.238	1.185	1.178	1.190	1.143	1.167	1.149	1.223	1.233	1.226	1.18790	3.35
114)	t	Toluene	0.653	0.635	0.657	0.778	0.727	0.803	0.816				0.72410	10.55
115)	s	1,4-Dichlorobutane	0.102	0.108	0.110	0.108	0.110	0.115	0.118	0.104	0.109	0.107	0.11047	4.80
116)	t	2-Hexanone								0.231	0.197	0.223	0.28355	27.26
117)	t	2-Methylheptane	0.381	0.364	0.378	0.373	0.390	0.407	0.396				0.38410	3.77
118)	T	1-Methylcyclohexene								0.502	0.429	0.453	0.49648	11.20
119)	t	Dibromochloromethan	0.400	0.425	0.421	0.476	0.421	0.465	0.480				0.44118	7.17
120)	t	3-Methylheptane	0.382	0.369	0.379	0.383	0.390	0.412	0.400				0.38786	3.66
121)	T	Hexanal								0.050	0.038	0.041	0.05401	25.70
122)	t	1,2-Dibromoethane	0.342	0.358	0.351	0.394	0.353	0.393	0.404				0.37063	6.83
123)	T	2,2,5-Trimethylhexa								1.146	1.056	1.048	1.14786	8.98
124)	T	1-Octene								0.205	0.160	0.180	0.20584	15.64
125)	t	n-Octane	0.384	0.368	0.363	0.400	0.398	0.431	0.425				0.39539	6.60
126)	t	Tetrachloroethene	0.367	0.348	0.329	0.357	0.317	0.345	0.351				0.34510	4.94
127)	T	cis-2-Octene								0.269	0.211	0.239	0.27717	17.22
128)	t	Chlorobenzene	0.480	0.495	0.474	0.560	0.504	0.572	0.598				0.52611	9.44
129)	t	Ethylbenzene	0.608	0.612	0.610	0.785	0.785	0.912	0.955				0.75249	19.53
130)	t	m/p-Xylene	0.488	0.487	0.487	0.615	0.625	0.731	0.764				0.59954	19.61
131)	t	Bromoform	0.261	0.275	0.269	0.330	0.305	0.359	0.379				0.31091	14.91
132)	T	Butyl acrylate								0.231	0.199	0.235	0.30315	30.70
133)	T	Heptanal								0.078	0.059	0.067	0.09467	33.75
134)	t	Styrene	0.346	0.350	0.335	0.434	0.420	0.502	0.539				0.41798	19.17
135)	t	1,1,2,2-Tetrachloro	0.328	0.331	0.322	0.386	0.401	0.474	0.509				0.39290	18.97
136)	t	o-Xylene	0.471	0.474	0.475	0.595	0.637	0.740	0.761				0.59320	21.17
137)	T	1-Nonene								0.186	0.153	0.178	0.21712	23.68
138)	t	cis-4-Nonene								0.338	0.262	0.304	0.36855	21.99
139)	t	trans-4-Nonene								0.307	0.246	0.286	0.34219	22.71
140)	t	n-Nonane	0.308	0.304	0.307	0.356	0.356	0.403	0.407				0.34882	12.74
141)	s	1,4-Bromofluorobenz	0.494	0.511	0.521	0.518	0.519	0.540	0.550	0.499	0.506	0.500	0.52086	4.57
142)	t	Isopropylbenzene	0.774	0.767	0.778	0.958	1.037	1.197	1.227				0.96233	20.71
143)	T	Benzaldehyde								0.168	0.133	0.127	0.17439	29.23
144)	t	alpha-Pinene	0.740	0.755	0.817	0.847	0.881	0.927	0.896				0.83765	8.44
145)	T	o/m-Chlorotoluene								0.474	0.347	0.392	0.49007	23.35
146)	T	p-Chlorotoluene								0.462	0.331	0.368	0.46850	24.21
147)	t	n-Propylbenzene	0.701	0.699	0.681	0.878	0.912	1.089	1.170				0.87563	22.48
148)	t	m-Ethyltoluene	0.578	0.559	0.535	0.688	0.727	0.873	0.960				0.70308	23.24

149)	t	p-Ethyltoluene	0.513	0.526	0.498	0.647	0.680	0.819	0.886				0.65279	23.61
150)	t	1,3,5-Trimethylbenz	0.530	0.510	0.496	0.620	0.666	0.798	0.871				0.64169	22.82
151)	t	o-Ethyltoluene	0.600	0.603	0.591	0.738	0.795	0.952	1.038				0.75968	23.72
152)	t	beta-Pinene	0.733	0.745	0.786	0.849	0.901	0.956	0.942				0.84463	10.87
153)	t	1,2,4-Trimethylbenz	0.452	0.442	0.423	0.538	0.584	0.750	0.840				0.57538	28.22
154)	T	tert-Butylbenzene								0.769	0.559	0.612	0.80479	23.80
155)	T	1-Decene								0.140	0.104	0.118	0.16072	30.54
156)	t	Benzyl chloride	0.254	0.244	0.223	0.295	0.352						0.27379	18.70
157)	t	m-Dichlorobenzene	0.304	0.304	0.288	0.357	0.339	0.456	0.519				0.36670	23.85
158)	t	n-Decane	0.346	0.322	0.337	0.393	0.412	0.497	0.518				0.40361	19.34
159)	t	p-Dichlorobenzene	0.293	0.292	0.274	0.336	0.326	0.449	0.504				0.35337	24.90
160)	T	Isobutylbenzene								0.697	0.498	0.549	0.75765	29.08
161)	t	1,2,3-Trimethylbenz	0.495	0.469	0.452	0.558	0.659	0.856	0.912				0.62887	29.94
162)	T	p-Isopropyltoluene								0.700	0.478	0.534	0.77539	34.09
163)	t	o-Dichlorobenzene	0.283	0.269	0.256	0.313	0.340	0.469	0.513				0.34903	29.09
164)	T	Limonene								0.303	0.211	0.238	0.32671	29.39
165)	T	Indan								0.491	0.343	0.379	0.54011	33.53
166)	T	Indene								0.399	0.268	0.308	0.46168	39.45
167)	t	m-Diethylbenzene	0.402	0.339	0.311	0.379	0.495	0.606	0.638				0.45280	28.59
168)	t	p-Diethylbenzene	0.393	0.323	0.296	0.361	0.474	0.586	0.625				0.43682	29.50
169)	T	n-Butylbenzene								0.519	0.354	0.390	0.57360	37.30
170)	T	1-Undecene								0.132	0.106	0.107	0.15505	30.53
171)	T	n-Undecane								0.407	0.318	0.317	0.46269	29.36
172)	t	1,2,4-Trichlorobenz	0.270	0.244	0.217	0.221	0.210	0.229	0.237				0.23254	8.67
173)	T	Naphthalene								0.666	0.484	0.369	0.57912	29.62
174)	t	Hexachloro-1,3-buta	0.349	0.330	0.319	0.327	0.310	0.330	0.322				0.32685	3.68

(#) = Out of Range ### Number of calibration levels exceeded format ###

RA111026.M Thu Oct 27 14:47:45 2011 DAH

Calibration Table Report

Method: RA111026.M

Title:

Last Calibration: Thu Oct 27 14:46:27 2011

Calibration Files

Compound	20	50	100	250	500	750	1000	20A	50A	100A	250A	500A	750A	999A	Avg	%RSD
	RA102610.	RA102611.	RA102612.	RA102613.	RA102614.	RA102615.	RA102616.	RA102619.	RA102620.	RA102621.	RA102622.	RA102623.	RA102624.	RA102625.D		
1,1-Dichloro-1-Fluoroethane	ISTD															
2-Bromo-1,1,1-trifluoroethane	0.622	0.635	0.633	0.636	0.629	0.632	0.628	0.625	0.631	0.630	0.626	0.638	0.621	0.598	0.62749	1.57
Ethylene	0.059	0.067	0.065	0.057	0.057	0.054	0.055								0.05918	8.10
Acetylene	0.126	0.128	0.120	0.107	0.110	0.105	0.106								0.11451	8.75
Ethane	0.035	0.032	0.027	0.017	0.013										0.02480	37.96
Halocarbon 134A								0.404	0.296	0.299	0.310	0.315	0.339	0.353	0.33082	11.58
Propylene	0.257	0.252	0.236	0.211	0.216	0.209	0.210								0.22732	9.15
Chlorodifluoromethane								0.576	0.438	0.442	0.446	0.447	0.477	0.494	0.47434	10.41
Propane	0.117	0.118	0.109	0.097	0.098	0.095	0.096								0.10427	9.87
Dichlorodifluoromethane	1.218	1.228	1.156	1.020	1.036	0.982	0.991								1.09025	9.85
Chloromethane	0.315	0.332	0.322	0.282	0.297	0.285	0.288								0.30308	6.53
Isobutane	0.671	0.666	0.636	0.553	0.566	0.542	0.548								0.59759	9.69
Halocarbon 114	1.409	1.421	1.347	1.180	1.260	1.186	1.194								1.28528	8.25
Acetaldehyde								0.097	0.079	0.089	0.111	0.115	0.124	0.129	0.10646	17.29
Vinyl chloride	0.439	0.456	0.438	0.387	0.410	0.391	0.398								0.41692	6.53
1-Butene/Isobutene	0.391	0.411	0.402	0.358	0.380	0.358	0.364								0.38065	5.66
1,3-Butadiene	0.201	0.220	0.211	0.192	0.204	0.195	0.195								0.20254	4.93
n-Butane	0.606	0.577	0.546	0.475	0.486	0.459	0.463								0.51609	11.54
Methanol								0.064	0.049	0.050	0.058	0.061	0.067	0.068	0.05969	12.64
trans-2-Butene	0.321	0.350	0.336	0.318	0.340	0.321	0.325								0.33018	3.58
Neopentane								1.375	1.135	1.056	1.020	1.013	1.064	1.099	1.10880	11.27
Dichlorofluoromethane								0.852	0.634	0.656	0.687	0.766	0.839	0.852	0.75515	12.70
Bromomethane	0.458	0.492	0.468	0.421	0.449	0.425	0.430								0.44897	5.78
cis-2-Butene	0.323	0.338	0.329	0.311	0.335	0.319	0.321								0.32526	2.91
Chloroethane	0.191	0.201	0.205	0.196	0.214	0.205	0.211								0.20325	4.02
Vinyl bromide								0.581	0.439	0.439	0.448	0.459	0.493	0.504	0.48043	10.62
3-Methyl-1-butene	0.673	0.673	0.677	0.661	0.705	0.672	0.685								0.67791	2.04
Ethanol								0.124	0.090	0.095	0.102	0.109	0.117	0.117	0.10767	11.80
Acetonitrile								0.155	0.125	0.143	0.191	0.213	0.220	0.235	0.18319	23.11
Acrolein								0.079	0.065	0.078	0.102	0.114	0.117	0.125	0.09743	23.93
Isopentane	0.316	0.321	0.303	0.270	0.285	0.267	0.269								0.29018	7.92
Trichlorofluoromethane	1.000	1.059	0.996	0.893	0.953	0.894	0.908								0.95753	6.67
1-Pentene	0.340	0.348	0.348	0.337	0.355	0.342	0.349								0.34584	1.81
Acetone								0.299	0.231	0.250	0.302	0.332	0.353	0.375	0.30614	17.18
2-Propanol								0.395	0.313	0.321	0.331	0.358	0.419	0.389	0.36079	11.36
Acrylonitrile								0.126	0.101	0.124	0.170	0.186	0.190	0.203	0.15725	25.09
n-Pentane	0.542	0.569	0.519	0.481	0.491	0.465	0.472								0.50567	7.70
Diethyl ether								0.122	0.110	0.130	0.160	0.166	0.178	0.184	0.14985	19.43
Isoprene	0.433	0.448	0.449	0.439	0.465	0.443	0.456								0.44752	2.36
trans-2-Pentene	0.523	0.556	0.560	0.555	0.581	0.561	0.572								0.55802	3.23
1,1-Dichloroethene	0.542	0.558	0.539	0.495	0.526	0.500	0.505								0.52365	4.63
cis-2-Pentene	0.537	0.552	0.551	0.550	0.575	0.558	0.571								0.55636	2.37
Methylene chloride	0.298	0.335	0.331	0.317	0.340	0.326	0.329								0.32511	4.34
2-Methyl-2-butene	0.534	0.554	0.560	0.565	0.582	0.559	0.571								0.56071	2.67
Carbon Disulfide								1.613	1.359	1.308	1.275	1.295	1.361	1.390	1.37162	8.34
3-Chloropropene	0.262	0.276	0.284	0.272	0.292	0.282	0.288								0.27922	3.69
Halocarbon 113	0.715	0.743	0.739	0.698	0.749	0.717	0.727								0.72673	2.51
Neohexane	0.421	0.426	0.404	0.372	0.398	0.381	0.383								0.39772	5.15
Cyclopentene	0.832	0.875	0.859	0.828	0.861	0.829	0.849								0.84750	2.17
trans-1,2-Dichloroethene	0.464	0.525	0.513	0.465	0.496	0.472	0.481								0.48798	4.95
4-Methyl-1-pentene	0.443	0.446	0.447	0.417	0.447	0.428	0.407								0.43349	3.72
1-Propanol								0.048	0.042	0.043	0.047	0.053	0.059	0.056	0.04973	13.19
1,1-Dichloroethane	0.574	0.617	0.616	0.616	0.643	0.619	0.634								0.61702	3.50
Cyclopentane	0.585	0.611	0.577	0.534	0.548	0.519	0.528								0.55739	6.16
2,3-Dimethylbutane	0.701	0.729	0.702	0.647	0.690	0.659	0.667								0.68491	4.19
Methyl tert-butyl ether	0.623	0.666	0.706	0.780	0.964	0.963	0.997								0.81408	19.39
Isohexane	0.365	0.354	0.345	0.334	0.350	0.331	0.337								0.34503	3.47

	Vinyl acetate								0.517	0.381	0.458	0.579	0.684	0.6	0.560	0.53992	18.32
	cis-4-Methyl-2-pentene								0.831	0.663	0.692	0.713	0.744	0.789	0.813	0.74934	8.52
	trans-4-Methyl-2-pentene								0.942	0.747	0.778	0.802	0.840	0.88	0.904	0.84162	8.40
	Butyraldehyde								0.051	0.041	0.049	0.062	0.067	0.071	0.074	0.05918	20.86
	2-Butanone								0.438	0.324	0.379	0.440	0.494	0.525	0.558	0.45119	18.16
	Chloroprene	0.413	0.444	0.430	0.436	0.446	0.433	0.443								0.43514	2.60
	3-Methylpentane	0.699	0.737	0.725	0.678	0.715	0.679	0.689								0.70302	3.30
	Fluorobenzene	2.078	2.097	2.107	2.137	2.160	2.043	2.107	2.053	2.076	2.088	2.076	2.130	1.872	1.876	2.06429	4.19
	2-Methyl-1-pentene	0.547	0.545	0.573	0.603	0.599	0.559	0.607								0.57598	4.70
	1-Hexene	0.206	0.283	0.237	0.260	0.240	0.245	0.228								0.24279	10.03
	cis-1,2-Dichloroethene	0.421	0.446	0.459	0.443	0.469	0.447	0.458								0.44903	3.45
	Bromochloromethane	0.377	0.391	0.403	0.391	0.411	0.399	0.407								0.39696	2.96
	2-Ethyl-1-butene								0.520	0.403	0.434	0.432	0.471	0.489	0.504	0.46457	9.26
	n-Hexane	0.559	0.579	0.558	0.555	0.560	0.540	0.561								0.55876	2.03
	Chloroform	0.721	0.738	0.741	0.743	0.760	0.734	0.758								0.74210	1.82
	cis-3-Hexene								0.500	0.378	0.413	0.404	0.450	0.455	0.468	0.43826	9.53
	trans-2-Hexene	0.546	0.561	0.557	0.591	0.587	0.572	0.600								0.57336	3.46
	2-Methyl-2-pentene								0.501	0.393	0.410	0.403	0.435	0.448	0.458	0.43543	8.63
	cis-3-Methyl-2-pentene								0.594	0.480	0.498	0.507	0.527	0.555	0.574	0.53360	7.93
	cis-2-Hexene	0.497	0.509	0.502	0.529	0.530	0.516	0.539								0.51719	3.01
	Methylcyclopentane	0.754	0.775	0.759	0.718	0.753	0.723	0.739								0.74592	2.71
	1,2-Dichloroethane	0.282	0.337	0.355	0.372	0.388	0.376	0.390								0.35704	10.66
	2,4-Dimethylpentane	0.636	0.647	0.649	0.622	0.662	0.636	0.644								0.64217	1.97
	1,1,1-Trichloroethane	0.752	0.789	0.786	0.767	0.814	0.788	0.802								0.78505	2.63
	Chlorobenzene-d5	ISTD	0.439	0.383	0.499	0.606	0.607	0.756								0.54399	22.78
	Methylcyclopentene								0.750	0.577	0.601	0.597	0.615	0.711	0.685	0.64823	10.31
	Benzene	0.586	0.628	0.658	0.703	0.661	0.697	0.694								0.66104	6.46
	Carbon tetrachloride	0.528	0.509	0.503	0.479	0.475	0.499	0.485								0.49689	3.78
	1-Butanol								0.168	0.153	0.151	0.167	0.151	0.212		0.16707	13.86
	Cyclohexane	0.403	0.387	0.377	0.348	0.345	0.359	0.349								0.36672	6.14
	Isoheptane	0.434	0.412	0.414	0.413	0.409	0.426	0.411								0.41708	2.26
	2,3-Dimethylpentane	0.437	0.417	0.421	0.400	0.398	0.412	0.396								0.41162	3.58
	Cyclohexene								0.528	0.411	0.416	0.429	0.426	0.51	0.496	0.45943	10.77
	3-Methylhexane	0.357	0.337	0.338	0.332	0.326	0.340	0.331								0.33728	2.90
	1,2-Dichloropropane	0.169	0.189	0.199	0.224	0.214	0.232	0.233								0.20848	11.49
	Bromodichloromethane	0.437	0.444	0.435	0.462	0.417	0.442	0.446								0.44046	3.09
	Trichloroethene	0.481	0.416	0.388	0.382	0.344	0.360	0.360								0.39008	11.87
	1,4-Dioxane								0.158	0.145	0.147	0.163	0.165	0.209	0.204	0.17007	15.36
	1-Heptene								0.186	0.162	0.166	0.168	0.178	0.205	0.199	0.18074	9.31
	2,2,4-Trimethylpentane	1.201	1.158	1.174	1.132	1.126	1.168	1.130								1.15561	2.41
	2-Chloropentane	0.275	0.289	0.325	0.351	0.358	0.383	0.381								0.33753	12.69
	trans-3-Heptene								0.248	0.213	0.229	0.223	0.239	0.276	0.267	0.24231	9.52
	n-Heptane	0.270	0.254	0.246	0.262	0.251	0.268	0.268								0.25962	3.66
	cis-3-Heptene								0.262	0.221	0.232	0.230	0.239	0.279	0.270	0.24756	9.10
	trans-2-Heptene								0.293	0.235	0.254	0.245	0.263	0.301	0.294	0.26947	9.83
	2,4,4-Trimethyl-1-pentene								0.772	0.739	0.744	0.797	0.741	0.907	0.877	0.79664	8.64
	cis-1,3-Dichloropropene	0.303	0.314	0.316	0.351	0.315	0.344	0.348								0.32716	6.03
	Methylisobutylketone								0.302	0.243	0.277	0.325	0.344	0.449	0.448	0.34128	23.49
	Methylcyclohexane	0.569	0.546	0.545	0.523	0.518	0.54	0.522								0.53737	3.38
	2,4,4-Trimethyl-2-pentene								0.449	0.442	0.444	0.48	0.45	0.548	0.532	0.47797	9.34
	2,5-Dimethylhexane								0.636	0.527	0.539	0.563	0.539	0.662	0.633	0.58570	9.56
	2,2,3-Trimethylpentane								1.077	0.904	0.882	0.924	0.867	1.051	1.026	0.96161	9.02
	trans-1,3-Dichloropropene	0.25	0.26	0.262	0.298	0.278	0.306	0.313								0.28097	8.89
	1,1,2-Trichloroethane	0.238	0.24	0.239	0.276	0.25	0.275	0.283								0.25738	7.71
	2,3,4-Trimethylpentane	0.613	0.549	0.561	0.529	0.529	0.545	0.526								0.55043	5.50
	Toluene-d8	1.238	1.185	1.178	1.19	1.143	1.167	1.149	1.223	1.233	1.226	1.229	1.202	1.158	1.107	1.18790	3.35
	Toluene	0.653	0.635	0.657	0.778	0.727	0.803	0.816								0.72410	10.55
	1,4-Dichlorobutane	0.102	0.108	0.11	0.108	0.11	0.115	0.118	0.104	0.109	0.107	0.111	0.108	0.117	0.121	0.11047	4.80
	2-Hexanone								0.231	0.197	0.223	0.268	0.29	0.389	0.386	0.28355	27.26
	2-Methylheptane	0.381	0.364	0.378	0.373	0.39	0.407	0.396								0.38410	3.77
	1-Methylcyclohexene								0.502	0.429	0.453	0.472	0.48	0.577	0.564	0.49548	11.20
	Dibromochloromethane	0.4	0.425	0.421	0.476	0.421	0.465	0.48								0.44118	7.17
	3-Methylheptane	0.382	0.369	0.379	0.383	0.39	0.412	0.4								0.38787	3.66
	Hexanal								0.05	0.038	0.041	0.049	0.054	0.072	0.073	0.05401	25.70
	1,2-Dibromoethane	0.342	0.358	0.351	0.394	0.353	0.393	0.404								0.37063	6.83
	2,2,5-Trimethylhexane								1.146	1.056	1.048	1.142	1.07	1.309	1.264	1.14786	8.98
	1-Octene								0.205	0.16	0.18	0.194	0.208	0.247	0.246	0.20584	15.64

	n-Octane	0.384	0.368	0.363	0.4	0.398	0.431	0.425								0.39539	6.60
	Tetrachloroethene	0.367	0.348	0.329	0.357	0.317	0.345	0.351								0.34510	4.94
	cis-2-Octene								0.269	0.211	0.239	0.259	0.285	0.339	0.337	0.27717	17.22
	Chlorobenzene	0.48	0.495	0.474	0.56	0.504	0.572	0.598								0.52611	9.44
	Ethylbenzene	0.608	0.612	0.61	0.785	0.785	0.912	0.955								0.75249	19.53
	m/p-Xylene	0.488	0.487	0.487	0.615	0.625	0.731	0.764								0.59954	19.61
	Bromoform	0.261	0.275	0.269	0.33	0.305	0.359	0.379								0.31091	14.91
	Butyl acrylate								0.231	0.199	0.235	0.277	0.332	0.443	0.404	0.30315	30.70
	Heptanal								0.078	0.059	0.067	0.085	0.098	0.133	0.142	0.09467	33.75
	Styrene	0.346	0.35	0.335	0.434	0.42	0.502	0.539								0.41798	19.17
	1,1,2,2-Tetrachloroethane	0.328	0.331	0.322	0.386	0.401	0.474	0.509								0.39290	18.97
	o-Xylene	0.471	0.474	0.475	0.595	0.637	0.74	0.761								0.59320	21.17
	1-Nonene								0.186	0.153	0.178	0.206	0.229	0.284	0.284	0.21712	23.68
	cis-4-Nonene								0.338	0.262	0.304	0.345	0.384	0.474	0.473	0.36855	21.99
	trans-4-Nonene								0.307	0.246	0.286	0.309	0.359	0.449	0.441	0.34219	22.71
	n-Nonane	0.308	0.304	0.307	0.356	0.356	0.403	0.407								0.34882	12.74
	1,4-Bromofluorobenzene	0.494	0.511	0.521	0.518	0.519	0.54	0.55	0.499	0.506	0.5	0.507	0.501	0.561	0.565	0.52086	4.57
	Isopropylbenzene	0.774	0.767	0.778	0.958	1.037	1.197	1.227								0.96233	20.71
	Benzaldehyde								0.168	0.133	0.127	0.133	0.173	0.231	0.256	0.17439	29.23
	alpha-Pinene	0.74	0.755	0.817	0.847	0.881	0.927	0.896								0.83765	8.44
	o/m-Chlorotoluene								0.474	0.347	0.392	0.438	0.5	0.638	0.642	0.49007	23.35
	p-Chlorotoluene								0.462	0.331	0.368	0.406	0.478	0.613	0.621	0.46850	24.21
	n-Propylbenzene	0.701	0.699	0.681	0.878	0.912	1.089	1.17								0.87563	22.48
	m-Ethyltoluene	0.578	0.559	0.535	0.688	0.727	0.873	0.96								0.70308	23.24
	p-Ethyltoluene	0.513	0.526	0.498	0.647	0.68	0.819	0.886								0.65280	23.61
	1,3,5-Trimethylbenzene	0.53	0.51	0.496	0.62	0.666	0.798	0.871								0.64169	22.82
	o-Ethyltoluene	0.6	0.603	0.591	0.738	0.795	0.952	1.038								0.75968	23.72
	beta-Pinene	0.733	0.745	0.786	0.849	0.901	0.956	0.942								0.84463	10.87
	1,2,4-Trimethylbenzene	0.452	0.442	0.423	0.538	0.584	0.75	0.84								0.57538	28.22
	tert-Butylbenzene								0.769	0.559	0.612	0.77	0.827	1.039	1.059	0.80479	23.80
	1-Decene								0.14	0.104	0.118	0.143	0.169	0.218	0.233	0.16072	30.54
	Benzyl chloride	0.254	0.244	0.223	0.295	0.352										0.27379	18.70
	m-Dichlorobenzene	0.304	0.304	0.288	0.357	0.339	0.456	0.519								0.36670	23.85
	n-Decane	0.346	0.322	0.337	0.393	0.412	0.497	0.518								0.40361	19.34
	p-Dichlorobenzene	0.293	0.292	0.274	0.336	0.326	0.449	0.504								0.35337	24.90
	Isobutylbenzene								0.697	0.498	0.549	0.681	0.786	1.007	1.086	0.75765	29.08
	1,2,3-Trimethylbenzene	0.495	0.469	0.452	0.558	0.659	0.856	0.912								0.62887	29.94
	p-Isopropyltoluene								0.7	0.478	0.534	0.644	0.82	1.092	1.159	0.77539	34.09
	o-Dichlorobenzene	0.283	0.269	0.256	0.313	0.34	0.469	0.513								0.34903	29.09
	Limonene								0.303	0.211	0.238	0.29	0.34	0.44	0.465	0.32671	29.39
	Indan								0.491	0.343	0.379	0.445	0.561	0.732	0.829	0.54011	33.53
	Indene								0.399	0.268	0.308	0.349	0.497	0.684	0.727	0.46168	39.45
	m-Diethylbenzene	0.402	0.339	0.311	0.379	0.495	0.606	0.638								0.45280	28.59
	p-Diethylbenzene	0.393	0.323	0.296	0.361	0.474	0.586	0.625								0.43682	29.50
	n-Butylbenzene								0.519	0.354	0.39	0.427	0.6	0.86	0.866	0.57360	37.30
	1-Undecene								0.132	0.106	0.107	0.154	0.149	0.226	0.211	0.15505	30.53
	n-Undecane								0.407	0.318	0.317	0.482	0.434	0.667	0.614	0.46269	29.36
	1,2,4-Trichlorobenzene	0.27	0.244	0.217	0.221	0.21	0.229	0.237								0.23254	8.67
	Naphthalene								0.666	0.484	0.369	0.627	0.408	0.864	0.634	0.57912	29.62
	Hexachloro-1,3-butadiene	0.349	0.33	0.319	0.327	0.31	0.33	0.322					0.403			0.32685	3.68
						0.310 ME								10-27-11			
	Thu Oct 27 14:49:54 2011					10-27-11											

Compound List Report GCMS-R1

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:16:33 2011
Response via : Initial Calibration
Total Cpnds : 174

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,1-Dichloro-1-Fluoroethane	81	11.49	1.000	A	3	A	B
2	S	2-Bromo-1,1,1-trifluoroethane	83	10.36	0.902	A	3	A	B
3	T	Ethylene	26	3.33	0.290	A	3	A	B
4	T	Acetylene	26	3.44	0.299	A	3	A	B
5	T	Ethane	26	3.52	0.306	A	2	A	B
6	T	Halocarbon 134A	69	4.31	0.375	A	3	A	B
7	T	Propylene	41	5.09	0.443	A	3	A	B
8	T	Chlorodifluoromethane	51	5.46	0.475	A	3	A	B
9	T	Propane	43	5.25	0.457	A	3	A	B
10	T	Dichlorodifluoromethane	85	5.76	0.501	A	3	A	B
11	T	Chloromethane	50	6.61	0.575	A	3	A	B
12	T	Isobutane	43	7.26	0.632	A	3	A	B
13	T	Halocarbon 114	85	7.47	0.650	A	3	A	B
14	T	Acetaldehyde	44	7.45	0.648	A	3	A	B
15	T	Vinyl chloride	62	7.69	0.669	A	3	A	B
16	T	1-Butene/Isobutene	41	8.12	0.707	A	3	A	B
17	T	1,3-Butadiene	39	8.24	0.717	A	3	A	B
18	T	n-Butane	43	8.39	0.730	A	3	A	B
19	T	Methanol	31	8.27	0.720	A	1	A	B
20	T	trans-2-Butene	41	8.77	0.763	A	3	A	B
21	T	Neopentane	57	8.81	0.767	A	3	A	B
22	T	Dichlorofluoromethane	67	10.06	0.875	A	3	A	B
23	T	Bromomethane	94	8.93	0.777	A	3	A	B
24	T	cis-2-Butene	41	9.24	0.804	A	3	A	B
25	T	Chloroethane	64	9.51	0.828	A	3	A	B
26	T	Vinyl bromide	106	10.28	0.895	A	3	A	B
27	T	3-Methyl-1-butene	55	10.32	0.898	A	3	A	B
28	T	Ethanol	45	10.40	0.905	A	2	A	B
29	T	Acetonitrile	41	10.51	0.914	A	3	A	B
30	T	Acrolein	56	10.73	0.934	A	3	A	B
31	T	Isopentane	41	10.94	0.952	A	3	A	B
32	T	Trichlorofluoromethane	101	11.21	0.975	A	3	A	B
33	T	1-Pentene	42	11.52	1.002	A	3	A	B
34	T	Acetone	43	11.04	0.961	A	2	A	B
35	T	2-Propanol	45	11.81	1.028	A	3	A	B
36	T	Acrylonitrile	52	11.94	1.039	A	3	A	B
37	T	n-Pentane	43	11.94	1.039	A	3	A	B
38	T	Diethyl ether	74	12.14	1.056	A	3	A	B
39	T	Isoprene	67	12.11	1.054	A	3	A	B
40	T	trans-2-Pentene	55	12.27	1.068	A	3	A	B
41	T	1,1-Dichloroethene	61	12.35	1.074	A	3	A	B
42	T	cis-2-Pentene	55	12.56	1.093	A	3	A	B
43	T	Methylene chloride	49	12.69	1.104	A	3	A	B
44	T	2-Methyl-2-butene	55	12.74	1.109	A	3	A	B
45	T	Carbon Disulfide	76	12.77	1.111	A	1	A	B
46	T	3-Chloropropene	41	12.85	1.118	A	2	A	B
47	T	Halocarbon 113	151	13.15	1.144	A	3	A	B
48	T	Neohexane	43	13.30	1.158	A	3	A	B
49	T	Cyclopentene	67	14.00	1.218	A	3	A	B
50	T	trans-1,2-Dichloroethene	61	14.17	1.233	A	3	A	B
51	T	4-Methyl-1-pentene	43	14.20	1.236	A	3	A	B
52	T	1-Propanol	59	14.20	1.236	A	3	A	B
53	T	1,1-Dichloroethane	63	14.46	1.258	A	3	A	B
54	T	Cyclopentane	42	14.44	1.257	A	3	A	B
55	T	2,3-Dimethylbutane	43	14.55	1.266	A	3	A	B
56	T	Methyl tert-butyl ether	73	14.67	1.276	A	3	A	B
57	T	Isohexane	42	14.76	1.284	A	3	A	B
58	T	Vinyl acetate	43	14.88	1.295	A	2	A	B
59	T	cis-4-Methyl-2-pentene	69	14.70	1.279	A	3	A	B
60	T	trans-4-Methyl-2-pentene	69	14.83	1.291	A	3	A	B
61	T	Butyraldehyde	72	14.95	1.301	A	3	A	B
62	T	2-Butanone	43	15.18	1.321	A	3	A	B
63	T	Chloroprene	53	15.33	1.334	A	3	A	B
64	T	3-Methylpentane	57	15.36	1.336	A	3	A	B
65	S	Fluorobenzene	96	18.80	1.636	A	2	A	B

66	T	2-Methyl-1-pentene	56	15.58	1.356	A	3	A	B
67	T	1-Hexene	41	15.62	1.360	A	3	A	B
68	T	cis-1,2-Dichloroethene	61	15.76	1.371	A	3	A	B
69	T	Bromochloromethane	130	15.99	1.391	A	3	A	B
70	T	2-Ethyl-1-butene	69	16.08	1.399	A	3	A	B
71	T	n-Hexane	57	16.11	1.402	A	3	A	B
72	T	Chloroform	83	16.23	1.412	A	3	A	B
73	T	cis-3-Hexene	55	16.25	1.414	A	3	A	B
74	T	trans-2-Hexene	55	16.33	1.421	A	3	A	B
75	T	2-Methyl-2-pentene	41	16.43	1.430	A	3	A	B
76	T	cis-3-Methyl-2-pentene	69	16.55	1.440	A	3	A	B
77	T	cis-2-Hexene	55	16.73	1.455	A	3	A	B
78	T	Methylcyclopentane	56	17.23	1.500	A	3	A	B
79	T	1,2-Dichloroethane	62	17.26	1.502	A	3	A	B
80	T	2,4-Dimethylpentane	43	17.42	1.516	A	3	A	B
81	T	1,1,1-Trichloroethane	97	17.61	1.532	A	3	A	B
82	I	Chlorobenzene-d5	117	25.94	1.000	A	3	A	B
83	T	Methylcyclopentene	67	18.24	0.703	A	3	A	B
84	T	Benzene	78	18.28	0.705	A	3	A	B
85	T	Carbon tetrachloride	117	18.50	0.713	A	3	A	B
86	T	1-Butanol	56	18.51	0.713	A	3	A	B
87	T	Cyclohexane	56	18.67	0.720	A	3	A	B
88	T	Isoheptane	43	19.07	0.735	A	3	A	B
89	T	2,3-Dimethylpentane	56	19.14	0.738	A	3	A	B
90	T	Cyclohexene	67	19.38	0.747	A	3	A	B
91	T	3-Methylhexane	43	19.44	0.750	A	3	A	B
92	T	1,2-Dichloropropane	63	19.55	0.754	A	3	A	B
93	T	Bromodichloromethane	83	19.88	0.766	A	3	A	B
94	T	Trichloroethene	130	19.94	0.769	A	3	A	B
95	T	1,4-Dioxane	88	19.99	0.771	A	3	A	B
96	T	1-Heptene	55	20.00	0.771	A	3	A	B
97	T	2,2,4-Trimethylpentane	57	20.01	0.772	A	3	A	B
98	T	2-Chloropentane	70	20.25	0.781	A	3	A	B
99	T	trans-3-Heptene	41	20.41	0.787	A	3	A	B
100	T	n-Heptane	71	20.50	0.790	A	3	A	B
101	T	cis-3-Heptene	41	20.55	0.792	A	3	A	B
102	T	trans-2-Heptene	55	20.70	0.798	A	3	A	B
103	T	2,4,4-Trimethyl-1-pentene	57	20.94	0.807	A	3	A	B
104	T	cis-1,3-Dichloropropene	75	21.33	0.822	A	3	A	B
105	T	Methylisobutylketone	43	21.45	0.827	A	3	A	B
106	T	Methylcyclohexane	83	21.40	0.825	A	3	A	B
107	T	2,4,4-Trimethyl-2-pentene	55	21.68	0.836	A	3	A	B
108	T	2,5-Dimethylhexane	57	21.87	0.843	A	3	A	B
109	T	2,2,3-Trimethylpentane	57	21.96	0.846	A	3	A	B
110	T	trans-1,3-Dichloropropene	75	22.20	0.856	A	3	A	B
111	T	1,1,2-Trichloroethane	97	22.44	0.865	A	3	A	B
112	T	2,3,4-Trimethylpentane	43	22.66	0.874	A	3	A	B
113	S	Toluene-d8	98	22.71	0.875	A	2	A	B
114	T	Toluene	91	22.87	0.882	A	3	A	B
115	S	1,4-Dichlorobutane	90	27.83	1.073	A	3	A	B
116	T	2-Hexanone	43	23.44	0.904	A	3	A	B
117	T	2-Methylheptane	43	23.31	0.899	A	3	A	B
118	T	1-Methylcyclohexene	81	23.31	0.899	A	3	A	B
119	T	Dibromochloromethane	129	23.55	0.908	A	3	A	B
120	T	3-Methylheptane	85	23.63	0.911	A	3	A	B
121	T	Hexanal	44	23.81	0.918	A	3	A	B
122	T	1,2-Dibromoethane	107	23.95	0.923	A	3	A	B
123	T	2,2,5-Trimethylhexane	57	24.08	0.928	A	3	A	B
124	T	1-Octene	55	24.23	0.934	A	3	A	B
125	T	n-Octane	43	24.70	0.952	A	3	A	B
126	T	Tetrachloroethene	164	24.80	0.956	A	3	A	B
127	T	cis-2-Octene	55	25.19	0.971	A	3	A	B
128	T	Chlorobenzene	112	26.01	1.003	A	3	A	B
129	T	Ethylbenzene	91	26.76	1.032	A	3	A	B
130	T	m/p-Xylene	91	27.13	1.046	A	3	A	B
131	T	Bromoform	173	27.15	1.047	A	3	A	B
132	T	Butyl acrylate	55	27.75	1.070	A	3	A	B
133	T	Heptanal	70	27.88	1.075	A	3	A	B
134	T	Styrene	104	27.79	1.072	A	3	A	B
135	T	1,1,2,2-Tetrachloroethane	83	28.00	1.080	A	3	A	B
136	T	o-Xylene	91	28.00	1.080	A	3	A	B
137	T	1-Nonene	56	28.19	1.087	A	3	A	B
138	T	cis-4-Nonene	55	28.37	1.094	A	3	A	B
139	T	trans-4-Nonene	55	28.46	1.097	A	3	A	B

140	T	n-Nonane	43	28.62	1.103	A	3	A	B
141	S	1,4-Bromofluorobenzene	95	28.91	1.114	A	3	A	B
142	T	Isopropylbenzene	105	29.23	1.127	A	3	A	B
143	T	Benzaldehyde	77	29.95	1.155	A	3	A	B
144	T	alpha-Pinene	93	30.01	1.157	A	3	A	B
145	T	o/m-Chlorotoluene	91	30.19	1.164	A	3	A	B
146	T	p-Chlorotoluene	91	30.35	1.170	A	3	A	B
147	T	n-Propylbenzene	91	30.33	1.169	A	3	A	B
148	T	m-Ethyltoluene	105	30.59	1.179	A	3	A	B
149	T	p-Ethyltoluene	105	30.67	1.183	A	3	A	B
150	T	1,3,5-Trimethylbenzene	105	30.87	1.190	A	3	A	B
151	T	o-Ethyltoluene	105	31.26	1.205	A	3	A	B
152	T	beta-Pinene	93	31.53	1.216	A	3	A	B
153	T	1,2,4-Trimethylbenzene	105	31.79	1.226	A	3	A	B
154	T	tert-Butylbenzene	119	31.77	1.225	A	3	A	B
155	T	1-Decene	56	31.85	1.228	A	3	A	B
156	T	Benzyl chloride	91	32.07	1.236	A	3	A	B
157	T	m-Dichlorobenzene	146	32.07	1.236	A	3	A	B
158	T	n-Decane	57	32.25	1.243	A	3	A	B
159	T	p-Dichlorobenzene	146	32.24	1.243	A	3	A	B
160	T	Isobutylbenzene	91	32.34	1.247	A	3	A	B
161	T	1,2,3-Trimethylbenzene	105	32.81	1.265	A	3	A	B
162	T	p-Isopropyltoluene	119	32.88	1.268	A	3	A	B
163	T	o-Dichlorobenzene	146	33.06	1.275	A	3	A	B
164	T	Limonene	68	33.23	1.281	A	3	A	B
165	T	Indan	117	33.25	1.282	A	3	A	B
166	T	Indene	115	33.48	1.291	A	3	A	B
167	T	m-Diethylbenzene	105	33.68	1.299	A	3	A	B
168	T	p-Diethylbenzene	119	33.92	1.308	A	3	A	B
169	T	n-Butylbenzene	91	33.96	1.309	A	3	A	B
170	T	1-Undecene	55	35.25	1.359	A	3	A	B
171	T	n-Undecane	57	35.61	1.373	A	3	A	B
172	T	1,2,4-Trichlorobenzene	180	37.67	1.452	A	3	A	B
173	T	Naphthalene	128	37.86	1.460	A	3	A	B
174	T	Hexachloro-1,3-butadiene	225	38.66	1.491	A	3	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

RA111026.M Thu Oct 27 14:25:11 2011 DAH

MA 10-27-11

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Compound	CAS Number	Purity (102 / Dilution Factor	0.02	0.05	0.1	0.25	0.5	0.75	1
		0.01057		Purity (ext)	0.0106				
1,1-Dichlor	1717-00-6	0.2	10	10	10	10	10	10	10
2-Bromo-1	421-06-7	0.2	10	10	10	10	10	10	10
Ethylene	74-85-1	0.01057	20.2	50.5	101	252.5	505	757.5	1010
Acetylene	74-86-2	0.01057	20.2	50.5	101	252.5	505	757.5	1010
Ethane	74-84-0	0.01057	20.2	50.5	101	252.5	505	757.5	1010
Halocarbo	811-97-2	0.0106	20.4	51	102	255	510	765	1020
Propylene	115-07-1	0.01057	19.8	49.5	99	247.5	495	742.5	990
Chlorodiflu	75-45-6	0.0106	21	52.5	105	262.5	525	787.5	1050
Propane	74-98-6	0.01057	19.6	49	98	245	490	735	980
Dichlorodif	75-71-8	0.01057	19.8	49.5	99	247.5	495	742.5	990
Chlorometl	74-87-3	0.01057	20	50	100	250	500	750	1000
Isobutane	75-28-5	0.01057	19.6	49	98	245	490	735	980
Halocarbo	76-14-2	0.01057	19.6	49	98	245	490	735	980
Acetaldehy	75-07-0	0.0106	20.4	51	102	255	510	765	1020
Vinyl chlori	75-01-4	0.01057	19.8	49.5	99	247.5	495	742.5	990
1-Butene/I	106-98-9	0.01057	19.4	48.5	97	242.5	485	727.5	970
1,3-Butadi	106-99-0	0.01057	21	52.5	105	262.5	525	787.5	1050
n-Butane	106-97-8	0.01057	19.4	48.5	97	242.5	485	727.5	970
Methanol	67-56-1	0.0106	20.8	52	104	260	520	780	1040
trans-2-Bu	624-64-6	0.01057	19.4	48.5	97	242.5	485	727.5	970
Neopentan	463-82-1	0.0106	21	52.5	105	262.5	525	787.5	1050
Dichloroflu	75-43-4	0.0106	21.2	53	106	265	530	795	1060
Bromometl	74-83-9	0.01057	19.8	49.5	99	247.5	495	742.5	990
cis-2-Buter	590-18-1	0.01057	20.8	52	104	260	520	780	1040
Chloroetha	75-00-3	0.01057	19.8	49.5	99	247.5	495	742.5	990
Vinyl Brom	593-60-2	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Methyl-1	563-45-1	0.01057	21	52.5	105	262.5	525	787.5	1050
Ethanol	64-17-5	0.0106	20.4	51	102	255	510	765	1020
Acetonitrile	75-05-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Acrolein	107-02-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Isopentane	78-78-4	0.01057	19.8	49.5	99	247.5	495	742.5	990
Trichlorofl	75-69-4	0.01057	20.6	51.5	103	257.5	515	772.5	1030
1-Pentene	109-67-1	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Acetone	67-64-1	0.0106	22	55	110	275	550	825	1100
2-Propanol	67-63-0	0.0106	24	60	120	300	600	900	1200
Acrylonitrile	107-13-1	0.0106	21	52.5	105	262.5	525	787.5	1050
n-Pentane	109-66-0	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Diethyl eth	60-29-7	0.0106	20.4	51	102	255	510	765	1020
Isoprene	78-79-5	0.01057	20.4	51	102	255	510	765	1020
trans-2-Pe	646-04-8	0.01057	21	52.5	105	262.5	525	787.5	1050
1,1-Dichlor	75-35-4	0.01057	20.8	52	104	260	520	780	1040
cis-2-Pente	627-20-3	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Methylene	75-09-2	0.01057	20.4	51	102	255	510	765	1020
2-Methyl-2	513-35-9	0.01057	21.4	53.5	107	267.5	535	802.5	1070
Carbon Di	75-15-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030
3-Chloropr	107-05-1	0.01057	21.2	53	106	265	530	795	1060
Halocarbo	76-13-1	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Neohexane	75-83-2	0.01057	20.4	51	102	255	510	765	1020

Cyclopente	142-29-0	0.01057	19.8	49.5	99	247.5	495	742.5	990
trans-1,2-D	156-60-5	0.01057	20.8	52	104	260	520	780	1040
4-Methyl-1	691-37-2	0.01057	20.4	51	102	255	510	765	1020
1-Propanol	71-23-8	0.0106	24	60	120	300	600	900	1200
1,1-Dichlor	75-34-3	0.01057	21.2	53	106	265	530	795	1060
Cyclopenta	287-92-3	0.01057	20.4	51	102	255	510	765	1020
2,3-Dimeth	79-29-8	0.01057	20.2	50.5	101	252.5	505	757.5	1010
Methyl tert	1634-04-4	0.01057	20.4	51	102	255	510	765	1020
Isohexane	107-83-5	0.01057	20.8	52	104	260	520	780	1040
Vinyl Aceta	108-05-4	0.0106	22	55	110	275	550	825	1100
cis-4-Meth	691-38-3	0.0106	20.8	52	104	260	520	780	1040
trans-4-Me	674-76-0	0.0106	20.6	51.5	103	257.5	515	772.5	1030
Butyraldeh	123-72-8	0.0106	20.6	51.5	103	257.5	515	772.5	1030
2-Butanone	78-93-3	0.0106	21.8	54.5	109	272.5	545	817.5	1090
Chloroprer	126-99-8	0.01057	20.2	50.5	101	252.5	505	757.5	1010
3-Methylpe	96-14-0	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Fluorobenz	462-06-6	0.2	10	10	10	10	10	10	10
2-Methyl-1	763-29-1	0.01057	20.4	51	102	255	510	765	1020
1-Hexene	592-41-6	0.01057	20.2	50.5	101	252.5	505	757.5	1010
cis-1,2-Dic	156-59-2	0.01057	21	52.5	105	262.5	525	787.5	1050
Bromochlo	74-97-5	0.01057	20.4	51	102	255	510	765	1020
2-Ethyl-1-b	760-21-4	0.0106	20	50	100	250	500	750	1000
n-Hexane	110-54-3	0.01057	21.2	53	106	265	530	795	1060
Chloroform	67-66-3	0.01057	20.8	52	104	260	520	780	1040
cis-3-Hexe	9/3/7642	0.0106	20.6	51.5	103	257.5	515	772.5	1030
trans-2-He	4050-45-7	0.01057	21	52.5	105	262.5	525	787.5	1050
2-Methyl-2	625-27-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010
cis-3-Meth	922-62-3	0.0106	21	52.5	105	262.5	525	787.5	1050
cis-2-Hexe	7688-21-3	0.01057	19.4	48.5	97	242.5	485	727.5	970
1,2-Dichlor	107-06-2	0.01057	21.2	53	106	265	530	795	1060
Methylcycl	96-37-7	0.01057	20.2	50.5	101	252.5	505	757.5	1010
2,4-Dimeth	108-08-7	0.01057	20.6	51.5	103	257.5	515	772.5	1030
1,1,1-Trich	71-55-6	0.01057	21.2	53	106	265	530	795	1060
Chloroben	3114-55-4	0.2	10	10	10	10	10	10	10
Methylcycl	693-89-0	0.0106	22	55	110	275	550	825	1100
Benzene	71-43-2	0.01057	21.4	53.5	107	267.5	535	802.5	1070
1-Butanol	71-36-3	0.0106	19.4	48.5	97	242.5	485	727.5	970
Carbon tet	56-23-5	0.01057	21	52.5	105	262.5	525	787.5	1050
Cyclohexa	110-82-7	0.01057	21.2	53	106	265	530	795	1060
Isoheptane	31394-54-	0.01057	20.6	51.5	103	257.5	515	772.5	1030
2,3-Dimeth	565-59-3	0.01057	20.4	51	102	255	510	765	1020
Cyclohexe	110-83-8	0.0106	20.2	50.5	101	252.5	505	757.5	1010
3-Methylhe	589-34-4	0.01057	20.4	51	102	255	510	765	1020
1,2-Dichlor	78-87-5	0.01057	21.2	53	106	265	530	795	1060
Bromodich	75-27-4	0.01057	20.2	50.5	101	252.5	505	757.5	1010
Trichloroet	79-01-6	0.01057	20.2	50.5	101	252.5	505	757.5	1010
1,4-Dioxan	123-91-1	0.0106	20.8	52	104	260	520	780	1040
1-Heptene	592-76-7	0.0106	20	50	100	250	500	750	1000
2,2,4-Trim	540-84-1	0.01057	20.4	51	102	255	510	765	1020
2-Chlorope	625-29-6	0.01057	20.4	51	102	255	510	765	1020
trans-3-He	14686-14-	0.0106	21.4	53.5	107	267.5	535	802.5	1070
n-Heptane	142-82-5	0.01057	20.6	51.5	103	257.5	515	772.5	1030

cis-3-Hept	10/6/7642	0.0106	21.4	53.5	107	267.5	535	802.5	1070
trans-2-He	14686-13-(	0.0106	20.6	51.5	103	257.5	515	772.5	1030
2,4,4-Trim	107-39-1	0.0106	20.4	51	102	255	510	765	1020
cis-1,3-Dic	10061-01-!	0.01057	20.8	52	104	260	520	780	1040
Methylisob	108-10-1	0.0106	21.8	54.5	109	272.5	545	817.5	1090
Methylcycl	108-87-2	0.01057	20.6	51.5	103	257.5	515	772.5	1030
2,4,4-Trim	107-40-4	0.0106	20.2	50.5	101	252.5	505	757.5	1010
2,5-Dimeth	592-13-2	0.0106	20.8	52	104	260	520	780	1040
2,2,3-Trim	564-02-3	0.0106	20.6	51.5	103	257.5	515	772.5	1030
trans-1,3-D	10061-02-(	0.01057	22	55	110	275	550	825	1100
1,1,2-Trich	79-00-5	0.01057	21.4	53.5	107	267.5	535	802.5	1070
2,3,4-Trim	565-75-3	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Toluene-d8	2037-26-5	0.2	10	10	10	10	10	10	10
Toluene	108-88-3	0.01057	21.8	54.5	109	272.5	545	817.5	1090
1,4-Dichlor	110-56-5	0.2	10	10	10	10	10	10	10
2-Hexanon	591-78-6	0.0106	21.4	53.5	107	257.5	535	802.5	1070
2-Methylhe	592-27-8	0.01057	20.6	51.5	103	267.5	515	772.5	1030
1-Methylcy	591-49-1	0.0106	21.4	53.5	107	267.5	535	802.5	1070
Dibromoch	124-48-1	0.01057	20.8	52	104	260	520	780	1040
3-Methylhe	589-81-1	0.01057	20.4	51	102	255	510	765	1020
Hexanal	66-25-1	0.0106	20.6	51.5	103	257.5	515	772.5	1030
1,2-Dibrom	106-93-4	0.01057	21.6	54	108	270	540	810	1080
2,2,5-Trim	3522-94-9	0.0106	21.8	54.5	109	272.5	545	817.5	1090
1-Octene	111-66-0	0.0106	20	50	100	250	500	750	1000
n-Octane	111-65-9	0.01057	20.6	51.5	103	257.5	515	772.5	1030
Tetrachlor	127-18-4	0.01057	21.2	53	106	265	530	795	1060
cis-2-Octe	4/8/7642	0.0106	21	52.5	105	262.5	525	787.5	1050
Chloroben	108-90-7	0.01057	21.6	54	108	270	540	810	1080
Ethylbenze	100-41-4	0.01057	21.6	54	108	270	540	810	1080
m/p-Xylene	106-42-3	0.01057	42.4	106	212	530	1060	1590	2120
Bromoform	75-25-2	0.01057	21.2	53	106	265	530	795	1060
Butyl Acryl	141-32-2	0.0106	22.8	57	114	285	570	855	1140
Styrene	100-42-5	0.01057	21.8	54.5	109	272.5	545	817.5	1090
Heptanal	111-71-7	0.0106	20.6	51.5	103	257.5	515	772.5	1030
1,1,2,2-Tet	79-34-5	0.01057	21.4	53.5	107	267.5	535	802.5	1070
o-Xylene	95-47-6	0.01057	21.4	53.5	107	267.5	535	802.5	1070
1-Nonene	124-11-8	0.0106	19.4	48.5	97	242.5	485	727.5	970
cis-4-None	10405-84-2	0.0106	22.8	57	114	285	570	855	1140
trans-4-No	10405-85-3	0.0106	19.2	48	96	240	480	720	960
n-Nonane	111-84-2	0.01057	20.4	51	102	255	510	765	1020
1,4-Bromo	460-00-4	0.2	10	10	10	10	10	10	10
Isopropylb	98-82-8	0.01057	19.8	49.5	99	247.5	495	742.5	990
Benzaldeh	100-52-7	0.0106	20.8	52	104	260	520	780	1040
alpha-Pine	80-56-8	0.01057	21.4	53.5	107	267.5	535	802.5	1070
o/m-Chlorc	2/3-CT	0.0106	42.8	107	214	535	1070	1605	2140
p-Chlorotol	106-43-4	0.0106	21.6	54	108	270	540	810	1080
n-Propylbe	103-65-1	0.01057	20	50	100	250	500	750	1000
m-Ethyltolu	620-14-4	0.01057	20	50	100	250	500	750	1000
p-Ethyltolu	622-96-8	0.01057	20.2	50.5	101	252.5	505	757.5	1010
1,3,5-Trim	108-67-8	0.01057	21.8	54.5	109	272.5	545	817.5	1090
o-Ethyltolu	611-14-3	0.01057	19.8	49.5	99	247.5	495	742.5	990
beta-Pinen	127-91-3	0.01057	15	37.5	75	187.5	375	562.5	750

1,2,4-Trim	95-63-6	0.01057	21.8	54.5	109	272.5	545	817.5	1090
tert-Butylbe	98-06-6	0.0106	21.4	53.5	107	267.5	535	802.5	1070
1-Decene	872-05-9	0.0106	21.4	53.5	107	267.5	535	802.5	1070
Benzyl chl	100-44-7	0.01057	21.8	54.5	109	272.5	545	817.5	1090
m-Dichloro	541-73-1	0.01057	21.8	54.5	109	272.5	545	817.5	1090
n-Decane	124-18-5	0.01057	20.6	51.5	103	257.5	515	772.5	1030
p-Dichlorol	106-46-7	0.01057	21.6	54	108	270	540	810	1080
Isobutylber	538-93-2	0.0106	22	55	110	275	550	825	1100
1,2,3-Trim	526-73-8	0.01057	19.6	49	98	245	490	735	980
p-Isopropyl	99-87-6	0.0106	22	55	110	275	550	825	1100
o-Dichlorol	95-50-1	0.01057	21.6	54	108	270	540	810	1080
Limonene	138-86-3	0.0106	21	52.5	105	262.5	525	787.5	1050
Indan	496-11-7	0.0106	21	52.5	105	262.5	525	787.5	1050
Indene	95-13-6	0.0106	20.6	51.5	103	257.5	515	772.5	1030
m-Diethylb	141-93-5	0.01057	19.4	48.5	97	242.5	485	727.5	970
p-Diethylbe	105-05-5	0.01057	19.8	49.5	99	247.5	495	742.5	990
n-Butylben	104-51-8	0.0106	22.2	55.5	111	277.5	555	832.5	1110
1-Undecen	821-95-4	0.0106	20.8	52	104	260	520	780	1040
n-Undecan	1120-21-4	0.0106	20.4	51	102	255	510	765	1020

Austin Laboratory

INSTRUMENT GCMS-R1 ANALYST / DATE: VAL 10/26/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: 10/26/11 Batch ID: NA

DAILY CHECK ✓	INSERT: CHANGED (Y/N)	SEPTA: CHANGED (Y/N)	COLUMN: CHANGED (Y/N)	AUTOSAMPLER MAINT. NA
M. PUMP OIL ✓	TURBO OIL NA	FILAMENT CHANGE NO	OTHER NA	
NO MAINTENANCE REQUIRED:			RETURNED TO SERVICE:	

DAILY CHECK includes sufficient carrier and detector gases, correct column flow/pressure, condition of septa, etc. Glass insert, septa, column and gases changed as needed. Source cleaned as needed. Mechanical pump oil and turbomolecular pump oil changed semiannually (usually on service contract). OTHER is for minor maintenance performed or for reference to Repair Log for major repairs.

MASS SPECTROMETER CONDITIONS:

Tune File: R102611B.U Elect Mult. 1812 volts Sampling Rate 1 6 Scan Range 1 23.0-27.0

Sampling Rate 2 4 Scan Range 2 29.0-175 Sampling Rate 3 3 Scan Range 3 33-275

Tuning Performance (circle one): BFB Autotune Other Interface: Entech

GC PROGRAM:

GC Meth. RA110918.M Initial Temp. -50 °C Final Hold 0.0 min Inj. Temp. 100 °C Init.Hold 3.0 min

Carrier Gas: Helium Ramp 1 15.0 °C/min to 0°C Flow/Pressure 1.6 mL/min Final Temp. 240 °C

Ramp 2 5°C to 150°C

Ramp 3 35°C to 240°C

Other Program or Special Conditions: ICVs reprocessed under RA110226.M

GC COLUMN:

Column ID#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: 341359

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	WARMUP	RA1748	0.5	6	RA102601	0.01057	Retained
2	↓	↓	↓	↓	02	↓	Retained
3					03		DATA NOT USED TEST RUNS
4					04		
5					05		
6	WARMUP NT				06		Retained
7	↓	↓	↓	↓	07	↓	
8	MB	RA2688	↓	1	08	1.0	
9	PREFLUSH	RA1748	0.1	6	09	0.01057	110C-15P-34-64

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	1OZ BLEND 20	RA1748	0.02	6	RA102610	0.01057	VOC-VSP-34-64
11	50		0.05		11		
12	100		0.10		12		
13	250		0.25		13		
14	500		0.50		14		
15	750		0.75		15		
16	1000		1.0		16		
17	MB	RA2288	0.5	1	17	1.0	
18	PRE FLUSH	RA1776	0.1	13	18	0.01060	VOC-VSP-34-53
19	EXT BLEND 20		0.02		19		
20	50		0.05		20		
21	100		0.10		21		
22	250		0.25		22		
23	500		0.50		23		
24	750		0.75		24		
25	1000		1.0		25		
26	MB	RA2288	0.5	1	26	1.0	
27	ICV 1OZ	RA1768		7	27	0.01062	VOC-VSP-34-65
28	EXT	RA1596		~~13~~ 14	28	0.01065	VOC-VSP-34-54
29	LCS	RA1821		10	29	0.01051	VOC-VSP-34-60
30							
31							
32							
33							
34							
35							
36							
37							

Sequence Name: C:\msdchem\1\sequence\R111026.S
Comment:
Operator: KDK
Data Path: C:\MSDCHEM\1\DATA\R111026\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

KDK 10/27/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info
1)	Sample	1	RA102601 RA110918 WARMUP
2)	Sample	1	RA102602 RA110918 WARMUP
3)	Sample	1	RA102603 RA110918 WARMUP
4)	Sample	1	RA102604 RA110918 WARMUP
5)	Sample	1	RA102605 RA110918 WARMUP
6)	Sample	1	RA102606 RA110918 WARMUPNT
7)	Sample	1	RA102607 RA110918 WARMUPNT
8)	Sample	1	RA102608 RA110918 MB
9)	Sample	1	RA102609 RA110918 PREFLUSH,,,,0.01057;102
10)	Sample	1	RA102610 RA110918 102 BLEND 20,,,,0.01057;102
11)	Sample	1	RA102611 RA110918 102 BLEND 50,,,,0.01057;102
12)	Sample	1	RA102612 RA110918 102 BLEND 100,,,,0.01057;102
13)	Sample	1	RA102613 RA110918 102 BLEND 250,,,,0.01057;102
14)	Sample	1	RA102614 RA110918 102 BLEND 500,,,,0.01057;102
15)	Sample	1	RA102615 RA110918 102 BLEND 750,,,,0.01057;102
16)	Sample	1	RA102616 RA110918 102 BLEND 1000,,,,0.01057;102
17)	Sample	1	RA102617 RA110918 MB
18)	Sample	1	RA102618 RA110918 PREFLUSH,,,,0.01060;EXT
19)	Sample	1	RA102619 RA110918 EXT BLEND 20,,,,0.01060;EXT
20)	Sample	1	RA102620 RA110918 EXT BLEND 50,,,,0.01060;EXT
21)	Sample	1	RA102621 RA110918 EXT BLEND 100,,,,0.01060;EXT
22)	Sample	1	RA102622 RA110918 EXT BLEND 250,,,,0.01060;EXT
23)	Sample	1	RA102623 RA110918 EXT BLEND 500,,,,0.01060;EXT
24)	Sample	1	RA102624 RA110918 EXT BLEND 750,,,,0.01060;EXT
25)	Sample	1	RA102625 RA110918 EXT BLEND 1000,,,,0.01060;EXT
26)	Sample	1	RA102626 RA110918 MB
27)	Sample	1	RA102627 RA110918 ICV 102,,,,0.01062;102
28)	Sample	1	RA102628 RA110918 ICV EXT,,,,0.01065;EXT
29)	Sample	1	RA102629 RA110918 ICV LCS,,,,0.01051;LCS

10/27/11

----------SEQUENCE TABLE ----------

Sequence Name: C:\Smart\R111026.SEQ
Date: 10-27-2011
Time: 14:57:44
Int. Std Volume: 200 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	6	500	0	C:\Smart\R091711A.MPT	12:00
WARMUP	1	6	500	0	C:\Smart\R091711A.MPT	12:00
WARMUP	1	6	500	0	C:\Smart\R091711A.MPT	12:00
WARMUP	1	6	500	0	C:\Smart\R091711A.MPT	12:00
WARMUP	1	6	500	0	C:\Smart\R091711A.MPT	12:00
WARMUPNT	1	6	500	0	C:\Smart\R091711A.MPT	12:00
WARMUPNT	1	6	500	0	C:\Smart\R091711A.MPT	12:00
MB 1	1		500	0	C:\Smart\R091711A.MPT	12:00
PREFLUSH	1	6	100	0	C:\Smart\R091711A.MPT	12:00
102 BLEND 20	1	6	20	0	C:\Smart\R091711A.MPT	12:00
102 BLEND 50	1	6	50	0	C:\Smart\R091711A.MPT	12:00
102 BLEND 100	1	6	100	0	C:\Smart\R091711A.MPT	12:00
102 BLEND 250	1	6	250	0	C:\Smart\R091711A.MPT	12:00
102 BLEND 500	1	6	500	0	C:\Smart\R091711A.MPT	12:00
102 BLEND 750	1	6	750	0	C:\Smart\R091711A.MPT	12:00
102 BLEND 1000	1	6	1000	0	C:\Smart\R091711A.MPT	12:00
MB 1	1		500	0	C:\Smart\R091711A.MPT	12:00
PREFLUSH	1	13	100	0	C:\Smart\R091711A.MPT	12:00
EXT BLEND 20	1	13	20	0	C:\Smart\R091711A.MPT	12:00
EXT BLEND 50	1	13	50	0	C:\Smart\R091711A.MPT	12:00
EXT BLEND 100	1	13	100	0	C:\Smart\R091711A.MPT	12:00
EXT BLEND 250	1	13	250	0	C:\Smart\R091711A.MPT	12:00
EXT BLEND 500	1	13	500	0	C:\Smart\R091711A.MPT	12:00
EXT BLEND 750	1	13	750	0	C:\Smart\R091711A.MPT	12:00
EXT BLEND 1000	1	13	1000	0	C:\Smart\R091711A.MPT	12:00
MB 1	1		500	0	C:\Smart\R091711A.MPT	12:00
ICV 102	1	7	500	0	C:\Smart\R091711A.MPT	12:00
ICV EXT	1	14	500	0	C:\Smart\R091711A.MPT	12:00
ICV LCS	1	10	500	0	C:\Smart\R091711A.MPT	12:00

BFB

KDK 10/27/11

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102610.D Vial: 1
Acq On : 26 Oct 2011 7:11 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,20 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :

Spectrum Information: Average of 28.892 to 28.925 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.1	8610	PASS
75	95	30	66	39.2	27943	PASS
95	95	100	100	100.0	71279	PASS
96	95	5	9	6.7	4795	PASS
173	174	0.00	2	0.6	393	PASS
174	95	50	120	99.0	70544	PASS
175	174	4	9	7.3	5132	PASS
176	174	93	101	97.1	68520	PASS
177	176	5	9	6.5	4435	PASS

RA102610.D RA110918.M Thu Oct 27 08:37:18 2011 KDK

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102610.D Vial: 1
Acq On : 26 Oct 2011 7:11 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,20 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:49 19111 Quant Results File: RA110918.RES

KDK 10/27/11

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

MM 10-27-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	300865	2.0000 ppbV	0.03
82) Chlorobenzene-d5	25.94	117	452500	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	187256	2.0588 ppbV	0.03
Spiked Amount 2.000			Recovery	= 103.00%	
65) Fluorobenzene	18.81	96	625278	2.1833 ppbV	0.02
Spiked Amount 2.000			Recovery	= 109.00%	
113) Toluene-d8	22.71	98	560292	2.2590 ppbV	0.02
Spiked Amount 2.000			Recovery	= 113.00%	
115) 1,4-Dichlorobutane	27.83	90	46277	1.9013 ppbV	0.01
Spiked Amount 2.000			Recovery	= 95.00%	
141) 1,4-Bromofluorobenzene	28.91	95	223653	1.9607 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	

Target Compounds					Qvalue	
3) Ethylene	3.33	26	1910m	0.2373 ppbV	S	
4) Acetylene	3.44	26	4048	0.2297 ppbV	S	99
5) Ethane	3.52	26	1118	0.5239 ppbV	S	96
7) Propylene	5.10	41	8085	0.2706 ppbV	S	95
9) Propane	5.26	43	3647	0.2791 ppbV	S	88
10) Dichlorodifluoromethane	5.77	85	38358	0.2560 ppbV	S	98
11) Chloromethane	6.63	50	10029	0.2460 ppbV	S	97
12) Isobutane	7.27	43	20920	0.2576 ppbV	S	98
13) Halocarbon 114	7.49	85	43917	0.2445 ppbV	S	94
15) Vinyl chloride	7.71	62	13808	0.2496 ppbV	S	98
16) 1-Butene/Isobutene	8.15	41	12075	0.2251 ppbV	S	95
17) 1,3-Butadiene	8.25	39	6699	0.2279 ppbV	S	95
18) n-Butane	8.41	43	18688	0.2621 ppbV	S	97
20) trans-2-Butene	8.79	41	9909	0.2072 ppbV	S	93
23) Bromomethane	8.95	94	14405	0.2284 ppbV	S	98
24) cis-2-Butene	9.26	41	10688	0.2248 ppbV	S	95
25) Chloroethane	9.54	64	6000	0.2074 ppbV	S	98
27) 3-Methyl-1-butene	10.34	55	22460	0.2237 ppbV	S	98
31) Isopentane	10.96	41	9934	0.2205 ppbV	S	94
32) Trichlorofluoromethane	11.23	101	32749	0.2212 ppbV	S	95
33) 1-Pentene	11.54	42	11140	0.2085 ppbV	S	89
37) n-Pentane	11.96	43	17756	0.2354 ppbV	S	94
39) Isoprene	12.13	67	14033	0.2101 ppbV	S	97
40) trans-2-Pentene	12.29	55	17463	0.2069 ppbV	S	98
41) 1,1-Dichloroethene	12.37	61	17924	0.2337 ppbV	S	94
42) cis-2-Pentene	12.58	55	17587	0.2089 ppbV	S	97
43) Methylene chloride	12.71	49	9656	0.1970 ppbV	S	94
44) 2-Methyl-2-butene	12.76	55	18176	0.2113 ppbV	S	91
46) 3-Chloropropene	12.87	41	8828	0.1889 ppbV	S	93
47) Halocarbon 113	13.17	151	23408	0.1934 ppbV	S	90
48) Neohexane	13.32	43	13651	0.2310 ppbV	S	95
49) Cyclopentene	14.02	67	26188	0.2073 ppbV	S	98
50) trans-1,2-Dichloroethene	14.19	61	15333	0.2166 ppbV	S	98
51) 4-Methyl-1-pentene	14.22	43	14358	0.2369 ppbV	S	88
53) 1,1-Dichloroethane	14.48	63	19359	0.2208 ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102610.D Vial: 1
Acq On : 26 Oct 2011 7:11 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,20 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:49 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Cyclopentane	14.46	42	18962	0.2368	ppbV	S	97
55)	2,3-Dimethylbutane	14.57	43	22514	0.2341	ppbV	S	98
56)	Methyl tert-butyl ether	14.72	73	20219	0.1783	ppbV	S	92
57)	Isohexane	14.78	42	12063	0.2437	ppbV	S	92
63)	Chloroprene	15.35	53	13278	0.2072	ppbV	S	94
64)	3-Methylpentane	15.37	57	22907	0.2402	ppbV	S	94
66)	2-Methyl-1-pentene	15.60	56	17735	0.2183	ppbV	S	95
67)	1-Hexene	15.64	41	6605	0.1719	ppbV	S	92
68)	cis-1,2-Dichloroethene	15.78	61	14042	0.2224	ppbV	S	98
69)	Bromochloromethane	16.00	130	12217	0.1989	ppbV	S	95
71)	n-Hexane	16.12	57	18856	0.2413	ppbV	S	91
72)	Chloroform	16.24	83	23832	0.2163	ppbV	S	93
74)	trans-2-Hexene	16.34	55	18228	0.2168	ppbV	S	93
77)	cis-2-Hexene	16.74	55	15339	0.2037	ppbV	S	89
78)	Methylcyclopentane	17.24	56	24207	0.2387	ppbV	S	92
79)	1,2-Dichloroethane	17.28	62	9501	0.1736	ppbV	S	94
80)	2,4-Dimethylpentane	17.43	43	20827	0.2249	ppbV	S	93
81)	1,1,1-Trichloroethane	17.62	97	25333	0.2189	ppbV	S	95
84)	Benzene	18.29	78	29976	0.2129	ppbV	S	97
85)	Carbon tetrachloride	18.52	117	26527	0.2394	ppbV	S	93
87)	Cyclohexane	18.68	56	20444	0.2793	ppbV	S	97
88)	Isoheptane	19.08	43	21399	0.2395	ppbV	S	94
89)	2,3-Dimethylpentane	19.15	56	21311	0.2536	ppbV	S	97
91)	3-Methylhexane	19.45	43	17394	0.2418	ppbV	S	93
92)	1,2-Dichloropropane	19.56	63	8560	0.1919	ppbV	S	95
93)	Bromodichloromethane	19.88	83	21116	0.2111	ppbV	S	93
94)	Trichloroethene	19.94	130	23225	0.2488	ppbV	S	92
97)	2,2,4-Trimethylpentane	20.03	57	58612	0.2480	ppbV	S	99
98)	2-Chloropentane	20.27	70	13420	0.1899	ppbV	S	95
100)	n-Heptane	20.50	71	13298	0.2512	ppbV	S	90
104)	cis-1,3-Dichloropropene	21.34	75	15062	0.2136	ppbV	S	93
106)	Methylcyclohexane	21.40	83	28021	0.2665	ppbV	S	92
110)	trans-1,3-Dichloropropene	22.21	75	13159	0.2112	ppbV	S	95
111)	1,1,2-Trichloroethane	22.44	97	12200	0.2069	ppbV	S	88
112)	2,3,4-Trimethylpentane	22.66	43	30190	0.2579	ppbV	S	93
114)	Toluene	22.87	91	34061	0.2069	ppbV	S	94
117)	2-Methylheptane	23.32	43	18789	0.2229	ppbV	S	95
119)	Dibromochloromethane	23.56	129	19901	0.1743	ppbV	S	98
120)	3-Methylheptane	23.64	85	18638	0.2328	ppbV	S	93
122)	1,2-Dibromoethane	23.95	107	17666	0.1964	ppbV	S	92
125)	n-Octane	24.70	43	18893	0.2114	ppbV	S	97
126)	Tetrachloroethene	24.80	164	18631	0.2005	ppbV	S	97
128)	Chlorobenzene	26.02	112	24805	0.1875	ppbV	S	94
129)	Ethylbenzene	26.76	91	31427	0.1770	ppbV	S	96
130)	m/p-Xylene	27.14	91	49488m	0.3437	ppbV	S	
131)	Bromoform	27.15	173	13219	0.1441	ppbV	S	96
134)	Styrene	27.80	104	18064	0.1747	ppbV	S	93
135)	1,1,2,2-Tetrachloroethane	28.01	83	16762	0.1778	ppbV	S	97
136)	o-Xylene	28.00	91	24107	0.1745	ppbV	S	95
140)	n-Nonane	28.62	43	15042	0.1818	ppbV	S	88
142)	Isopropylbenzene	29.23	105	36637	0.1589	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102610.D Vial: 1
Acq On : 26 Oct 2011 7:11 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,20 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:49 19111 Quant Results File: RA110918.RES

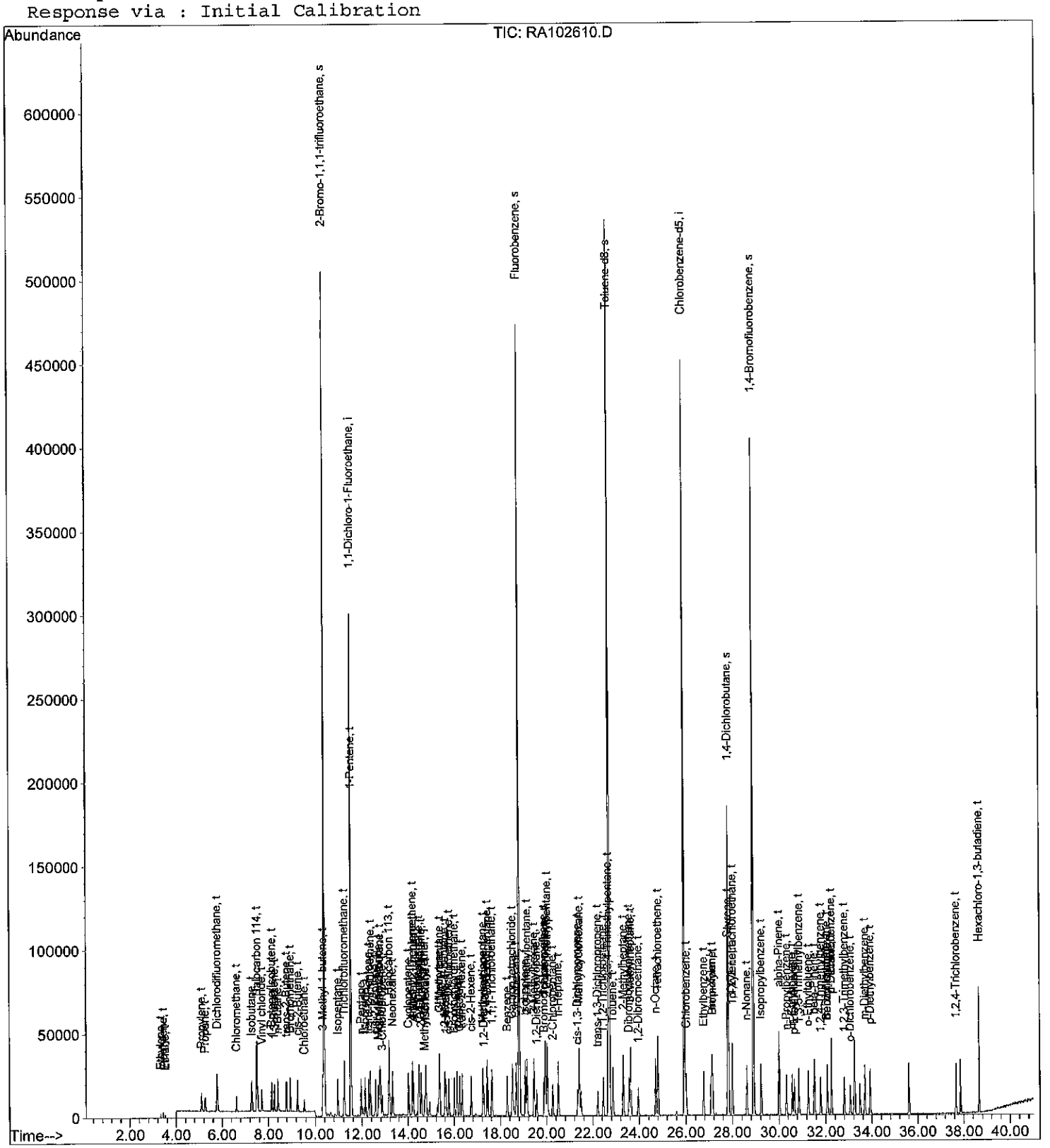
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144)	alpha-Pinene	30.01	93	37883	0.2142	ppbV	S	98
147)	n-Propylbenzene	30.33	91	33540	0.1555	ppbV	S	99
148)	m-Ethyltoluene	30.59	105	27642	0.1570	ppbV	S	96
149)	p-Ethyltoluene	30.67	105	24774	0.1483	ppbV	S	99
150)	1,3,5-Trimethylbenzene	30.87	105	27651	0.1755	ppbV	S	98
151)	o-Ethyltoluene	31.26	105	28434	0.1502	ppbV	S	95
152)	beta-Pinene	31.53	93	26311	0.1455	ppbV	S	98
153)	1,2,4-Trimethylbenzene	31.79	105	23551	0.1638	ppbV	S	95
156)	Benzyl chloride	32.06	91	13213	0.1619	ppbV	S	91
157)	m-Dichlorobenzene	32.06	146	15853	0.1550	ppbV	S	92
158)	n-Decane	32.25	57	17034	0.1746	ppbV	S	98
159)	p-Dichlorobenzene	32.24	146	15144	0.1557	ppbV	S	96
161)	1,2,3-Trimethylbenzene	32.80	105	23211	0.1514	ppbV	S	93
163)	o-Dichlorobenzene	33.06	146	14627	0.1539	ppbV	S	96
167)	m-Diethylbenzene	33.68	105	18644	0.1671	ppbV	S	96
168)	p-Diethylbenzene	33.91	119	18589	0.1710	ppbV	S	99
172)	1,2,4-Trichlorobenzene	37.67	180	14038	0.3099	ppbV	S	98
174)	Hexachloro-1,3-butadiene	38.66	225	18004	0.2084	ppbV	S	92

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102610.D Vial: 1
Acq On : 26 Oct 2011 7:11 pm Operator: KDK
Sample : 102 BLEND 20,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,20 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:49 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102611.D Vial: 1
Acq On : 26 Oct 2011 8:08 pm Operator: KDK
Sample : 102 BLEND 50,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,50 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:51 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	270162	2.0000 ppbV	0.03
82) Chlorobenzene-d5	25.94	117	435214	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	171502	2.0999 ppbV	0.03
Spiked Amount 2.000			Recovery	= 105.00%	
65) Fluorobenzene	18.81	96	566554	2.2031 ppbV	0.02
Spiked Amount 2.000			Recovery	= 110.00%	
113) Toluene-d8	22.71	98	515843	2.1624 ppbV	0.02
Spiked Amount 2.000			Recovery	= 108.00%	
115) 1,4-Dichlorobutane	27.83	90	46879	2.0025 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.00%	
141) 1,4-Bromofluorobenzene	28.91	95	222221	2.0255 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	

Target Compounds					Qvalue
3) Ethylene	3.33	26	4801m	0.6643 ppbV	S
4) Acetylene	3.43	26	9238	0.5839 ppbV	S 100
5) Ethane	3.52	26	2324	1.2127 ppbV	S 98
7) Propylene	5.10	41	17844	0.6652 ppbV	S 98
9) Propane	5.25	43	8286	0.7063 ppbV	S 93
10) Dichlorodifluoromethane	5.77	85	86813	0.6454 ppbV	S 99
11) Chloromethane	6.63	50	23672	0.6466 ppbV	S 98
12) Isobutane	7.27	43	46606	0.6392 ppbV	S 97
13) Halocarbon 114	7.49	85	99385	0.6162 ppbV	S 99
15) Vinyl chloride	7.71	62	32256	0.6493 ppbV	S 99
16) 1-Butene/Isobutene	8.15	41	28481	0.5913 ppbV	S 97
17) 1,3-Butadiene	8.25	39	16472	0.6242 ppbV	S 98
18) n-Butane	8.40	43	39982	0.6245 ppbV	S 97
20) trans-2-Butene	8.79	41	24213	0.5638 ppbV	S 96
23) Bromomethane	8.95	94	34789	0.6144 ppbV	S 97
24) cis-2-Butene	9.26	41	25093	0.5878 ppbV	S 98
25) Chloroethane	9.54	64	14192	0.5464 ppbV	S 95
27) 3-Methyl-1-butene	10.34	55	50460	0.5596 ppbV	S 98
31) Isopentane	10.96	41	22715	0.5614 ppbV	S 92
32) Trichlorofluoromethane	11.23	101	77907	0.5859 ppbV	S 98
33) 1-Pentene	11.54	42	25622	0.5341 ppbV	S 97
37) n-Pentane	11.96	43	41840	0.6178 ppbV	S 97
39) Isoprene	12.13	67	32589	0.5433 ppbV	S 97
40) trans-2-Pentene	12.28	55	41653	0.5496 ppbV	S 95
41) 1,1-Dichloroethene	12.36	61	41466	0.6020 ppbV	S 97
42) cis-2-Pentene	12.58	55	40582	0.5368 ppbV	S 95
43) Methylene chloride	12.70	49	24407	0.5546 ppbV	S 97
44) 2-Methyl-2-butene	12.76	55	42285	0.5476 ppbV	S 95
46) 3-Chloropropene	12.87	41	20857	0.4971 ppbV	S 92
47) Halocarbon 113	13.17	151	54628	0.5027 ppbV	S 89
48) Neohexane	13.31	43	31006	0.5842 ppbV	S 92
49) Cyclopentene	14.02	67	61860	0.5452 ppbV	S 99
50) trans-1,2-Dichloroethene	14.19	61	39016	0.6138 ppbV	S 97
51) 4-Methyl-1-pentene	14.22	43	32455	0.5963 ppbV	S 95
53) 1,1-Dichloroethane	14.48	63	46657	0.5927 ppbV	S 97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102611.D Vial: 1
Acq On : 26 Oct 2011 8:08 pm Operator: KDK
Sample : 102 BLEND 50,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,50 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:51 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Cyclopentane	14.46	42	44526	0.6192	ppbV	S	96
55)	2,3-Dimethylbutane	14.57	43	52536	0.6084	ppbV	S	99
56)	Methyl tert-butyl ether	14.71	73	48470	0.4760	ppbV	S	93
57)	Isohexane	14.77	42	26252	0.5906	ppbV	S	95
63)	Chloroprene	15.34	53	31983	0.5559	ppbV	S	95
64)	3-Methylpentane	15.37	57	54189	0.6328	ppbV	S	97
66)	2-Methyl-1-pentene	15.60	56	39655	0.5435	ppbV	S	95
67)	1-Hexene	15.64	41	20407	0.5914	ppbV	S	94
68)	cis-1,2-Dichloroethene	15.78	61	33412	0.5893	ppbV	S	98
69)	Bromochloromethane	16.00	130	28457	0.5158	ppbV	S	94
71)	n-Hexane	16.12	57	43783	0.6240	ppbV	S	95
72)	Chloroform	16.24	83	54822	0.5541	ppbV	S	95
74)	trans-2-Hexene	16.33	55	42076	0.5574	ppbV	S	94
77)	cis-2-Hexene	16.74	55	35238	0.5212	ppbV	S	94
78)	Methylcyclopentane	17.24	56	55879	0.6135	ppbV	S	93
79)	1,2-Dichloroethane	17.28	62	25489	0.5187	ppbV	S	97
80)	2,4-Dimethylpentane	17.43	43	47549	0.5717	ppbV	S	98
81)	1,1,1-Trichloroethane	17.62	97	59683	0.5743	ppbV	S	95
84)	Benzene	18.29	78	77247	0.5703	ppbV	S	100
85)	Carbon tetrachloride	18.51	117	61477	0.5768	ppbV	S	97
87)	Cyclohexane	18.68	56	47122	0.6694	ppbV	S	95
88)	Isoheptane	19.08	43	48791	0.5678	ppbV	S	97
89)	2,3-Dimethylpentane	19.15	56	48953	0.6058	ppbV	S	96
91)	3-Methylhexane	19.45	43	39553	0.5717	ppbV	S	97
92)	1,2-Dichloropropane	19.56	63	23004	0.5361	ppbV	S	95
93)	Bromodichloromethane	19.88	83	51544	0.5358	ppbV	S	100
94)	Trichloroethene	19.94	130	48287	0.5379	ppbV	S	89
97)	2,2,4-Trimethylpentane	20.02	57	135880	0.5978	ppbV	S	96
98)	2-Chloropentane	20.26	70	33901	0.4987	ppbV	S	96
100)	n-Heptane	20.50	71	30038	0.5899	ppbV	S	90
104)	cis-1,3-Dichloropropene	21.34	75	37512	0.5530	ppbV	S	95
106)	Methylcyclohexane	21.40	83	64646	0.6394	ppbV	S	95
110)	trans-1,3-Dichloropropene	22.21	75	32844	0.5481	ppbV	S	97
111)	1,1,2-Trichloroethane	22.44	97	29523	0.5206	ppbV	S	98
112)	2,3,4-Trimethylpentane	22.66	43	65069	0.5780	ppbV	S	92
114)	Toluene	22.87	91	79612	0.5028	ppbV	S	99
117)	2-Methylheptane	23.31	43	43072	0.5313	ppbV	S	96
119)	Dibromochloromethane	23.56	129	50838	0.4628	ppbV	S	98
120)	3-Methylheptane	23.64	85	43327	0.5628	ppbV	S	94
122)	1,2-Dibromoethane	23.96	107	44496	0.5144	ppbV	S	99
125)	n-Octane	24.71	43	43567	0.5070	ppbV	S	96
126)	Tetrachloroethene	24.80	164	42465	0.4752	ppbV	S	96
128)	Chlorobenzene	26.02	112	61467	0.4830	ppbV	S	97
129)	Ethylbenzene	26.76	91	75984	0.4449	ppbV	S	97
130)	m/p-Xylene	27.13	91	118809m	0.8580	ppbV	S	
131)	Bromoform	27.15	173	33487	0.3795	ppbV	S	98
134)	Styrene	27.80	104	43890	0.4414	ppbV	S	98
135)	1,1,2,2-Tetrachloroethane	28.01	83	40771	0.4498	ppbV	S	98
136)	o-Xylene	28.00	91	58332	0.4390	ppbV	S	96
140)	n-Nonane	28.62	43	35656	0.4480	ppbV	S	94
142)	Isopropylbenzene	29.23	105	87272	0.3935	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102611.D Vial: 1
Acq On : 26 Oct 2011 8:08 pm Operator: KDK
Sample : 102 BLEND 50,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,50 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:51 19111 Quant Results File: RA110918.RES

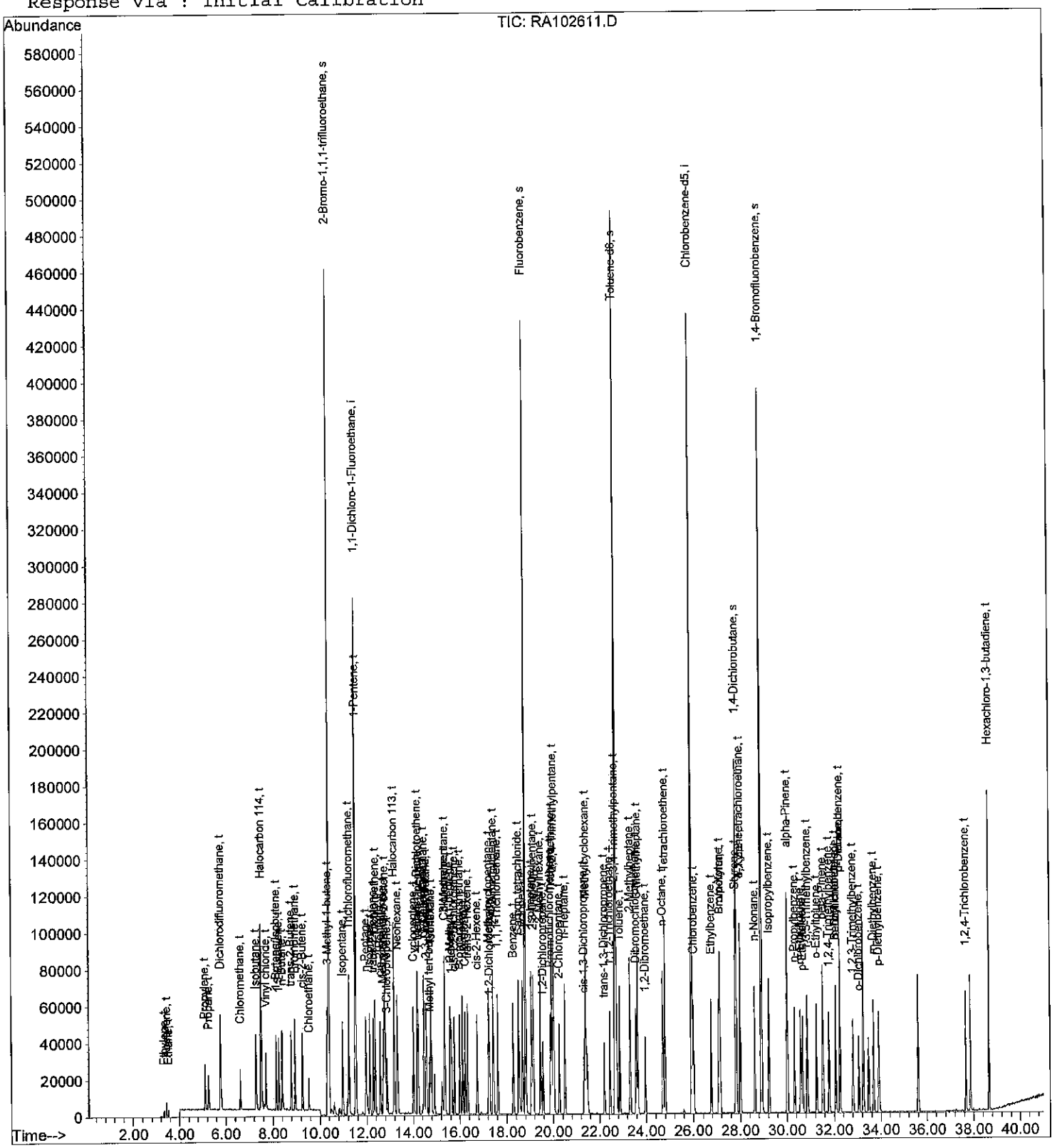
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144)	alpha-Pinene	30.01	93	92957	0.5464	ppbV	S	98
147)	n-Propylbenzene	30.33	91	80436	0.3876	ppbV	S	98
148)	m-Ethyltoluene	30.59	105	64336	0.3799	ppbV	S	99
149)	p-Ethyltoluene	30.67	105	61043	0.3798	ppbV	S	99
150)	1,3,5-Trimethylbenzene	30.87	105	63972	0.4222	ppbV	S	99
151)	o-Ethyltoluene	31.26	105	68613	0.3768	ppbV	S	99
152)	beta-Pinene	31.53	93	64302	0.3697	ppbV	S	94
153)	1,2,4-Trimethylbenzene	31.79	105	55376	0.4005	ppbV	S	99
156)	Benzyl chloride	32.06	91	30626	0.3902	ppbV	S	97
157)	m-Dichlorobenzene	32.06	146	38091	0.3871	ppbV	S	94
158)	n-Decane	32.25	57	38124	0.4063	ppbV	S	96
159)	p-Dichlorobenzene	32.24	146	36285	0.3879	ppbV	S	97
161)	1,2,3-Trimethylbenzene	32.81	105	52831	0.3582	ppbV	S	99
163)	o-Dichlorobenzene	33.06	146	33439	0.3658	ppbV	S	96
167)	m-Diethylbenzene	33.68	105	37862	0.3528	ppbV	S	99
168)	p-Diethylbenzene	33.92	119	36735	0.3514	ppbV	S	94
172)	1,2,4-Trichlorobenzene	37.67	180	30572	0.7017	ppbV	S	99
174)	Hexachloro-1,3-butadiene	38.66	225	41065	0.4941	ppbV	S	94

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102611.D Vial: 1
Acq On : 26 Oct 2011 8:08 pm Operator: KDK
Sample : 102 BLEND 50,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,50 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:51 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102612.D Vial: 1
Acq On : 26 Oct 2011 9:05 pm Operator: KDK
Sample : 102 BLEND 100,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:54 19111 Quant Results File: RA110918.RES

VDK 10/27/11

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

DAH 10-27-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	265308	2.0000 ppbV	0.03
82) Chlorobenzene-d5	25.94	117	429985	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	167959	2.0942 ppbV	0.03
Spiked Amount 2.000			Recovery	= 104.50%	
65) Fluorobenzene	18.81	96	559094	2.2138 ppbV	0.02
Spiked Amount 2.000			Recovery	= 110.50%	
113) Toluene-d8	22.71	98	506653	2.1497 ppbV	0.02
Spiked Amount 2.000			Recovery	= 107.50%	
115) 1,4-Dichlorobutane	27.83	90	47271	2.0438 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.00%	
141) 1,4-Bromofluorobenzene	28.91	95	224058	2.0671 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	

Target Compounds					Qvalue	
3) Ethylene	3.33	26	9188m	1.2946 ppbV	S	
4) Acetylene	3.44	26	17031	1.0961 ppbV	S	99
5) Ethane	3.51	26	3824	2.0320 ppbV	S	99
7) Propylene	5.10	41	32708	1.2416 ppbV	S	97
9) Propane	5.25	43	14936	1.2964 ppbV	S	94
10) Dichlorodifluoromethane	5.77	85	160465	1.2147 ppbV	S	99
11) Chloromethane	6.62	50	45171	1.2565 ppbV	S	99
12) Isobutane	7.27	43	87421	1.2209 ppbV	S	99
13) Halocarbon 114	7.48	85	185135	1.1689 ppbV	S	97
15) Vinyl chloride	7.71	62	60760	1.2454 ppbV	S	98
16) 1-Butene/Isobutene	8.14	41	54615	1.1546 ppbV	S	98
17) 1,3-Butadiene	8.25	39	31094	1.1998 ppbV	S	97
18) n-Butane	8.40	43	74212	1.1804 ppbV	S	98
20) trans-2-Butene	8.79	41	45722	1.0841 ppbV	S	96
23) Bromomethane	8.94	94	65032	1.1695 ppbV	S	99
24) cis-2-Butene	9.25	41	48002	1.1450 ppbV	S	99
25) Chloroethane	9.53	64	28474	1.1164 ppbV	S	97
27) 3-Methyl-1-butene	10.33	55	99697	1.1259 ppbV	S	97
31) Isopentane	10.95	41	42052	1.0583 ppbV	S	98
32) Trichlorofluoromethane	11.22	101	143906	1.1020 ppbV	S	97
33) 1-Pentene	11.53	42	50319	1.0681 ppbV	S	98
37) n-Pentane	11.95	43	75001	1.1277 ppbV	S	95
39) Isoprene	12.13	67	64254	1.0908 ppbV	S	98
40) trans-2-Pentene	12.28	55	82479	1.1082 ppbV	S	96
41) 1,1-Dichloroethene	12.36	61	78655	1.1628 ppbV	S	96
42) cis-2-Pentene	12.58	55	79525	1.0712 ppbV	S	96
43) Methylene chloride	12.70	49	47296	1.0943 ppbV	S	97
44) 2-Methyl-2-butene	12.76	55	84058	1.1084 ppbV	S	93
46) 3-Chloropropene	12.87	41	42156	1.0231 ppbV	S	93
47) Halocarbon 113	13.17	151	106702	0.9998 ppbV	S	90
48) Neohexane	13.31	43	57733	1.1077 ppbV	S	93
49) Cyclopentene	14.01	67	119185	1.0697 ppbV	S	97
50) trans-1,2-Dichloroethene	14.19	61	74767	1.1978 ppbV	S	98
51) 4-Methyl-1-pentene	14.21	43	63881	1.1952 ppbV	S	95
53) 1,1-Dichloroethane	14.47	63	91517	1.1839 ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102612.D Vial: 1
Acq On : 26 Oct 2011 9:05 pm Operator: KDK
Sample : 102 BLEND 100,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:54 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Cyclopentane	14.46	42	82563	1.1692	ppbV	S	95
55)	2,3-Dimethylbutane	14.57	43	99426	1.1725	ppbV	S	98
56)	Methyl tert-butyl ether	14.70	73	100955	1.0096	ppbV	S	92
57)	Isohexane	14.77	42	50340	1.1533	ppbV	S	96
63)	Chloroprene	15.34	53	60919	1.0782	ppbV	S	96
64)	3-Methylpentane	15.37	57	104685	1.2449	ppbV	S	96
66)	2-Methyl-1-pentene	15.60	56	81909	1.1431	ppbV	S	95
67)	1-Hexene	15.64	41	33549	0.9900	ppbV	S	95
68)	cis-1,2-Dichloroethene	15.77	61	67570	1.2136	ppbV	S	99
69)	Bromochloromethane	16.00	130	57697	1.0650	ppbV	S	96
71)	n-Hexane	16.12	57	82882	1.2029	ppbV	S	97
72)	Chloroform	16.24	83	108071	1.1122	ppbV	S	97
74)	trans-2-Hexene	16.34	55	81990	1.1060	ppbV	S	96
77)	cis-2-Hexene	16.73	55	68235	1.0276	ppbV	S	95
78)	Methylcyclopentane	17.24	56	107496	1.2018	ppbV	S	96
79)	1,2-Dichloroethane	17.27	62	52748	1.0930	ppbV	S	99
80)	2,4-Dimethylpentane	17.43	43	93772	1.1481	ppbV	S	98
81)	1,1,1-Trichloroethane	17.62	97	116773	1.1442	ppbV	S	99
84)	Benzene	18.29	78	160038	1.1959	ppbV	S	98
85)	Carbon tetrachloride	18.51	117	120056	1.1401	ppbV	S	97
87)	Cyclohexane	18.68	56	90761	1.3050	ppbV	S	95
88)	Isoheptane	19.08	43	96941	1.1419	ppbV	S	98
89)	2,3-Dimethylpentane	19.15	56	97518	1.2214	ppbV	S	97
91)	3-Methylhexane	19.45	43	78389	1.1468	ppbV	S	97
92)	1,2-Dichloropropane	19.56	63	47983	1.1318	ppbV	S	92
93)	Bromodichloromethane	19.89	83	99774	1.0497	ppbV	S	98
94)	Trichloroethene	19.94	130	89074	1.0044	ppbV	S	93
97)	2,2,4-Trimethylpentane	20.02	57	272018	1.2112	ppbV	S	97
98)	2-Chloropentane	20.26	70	75340	1.1218	ppbV	S	99
100)	n-Heptane	20.50	71	57610	1.1451	ppbV	S	90
104)	cis-1,3-Dichloropropene	21.33	75	74655	1.1140	ppbV	S	94
106)	Methylcyclohexane	21.40	83	127532	1.2766	ppbV	S	96
110)	trans-1,3-Dichloropropene	22.21	75	65490	1.1061	ppbV	S	97
111)	1,1,2-Trichloroethane	22.44	97	58200	1.0387	ppbV	S	98
112)	2,3,4-Trimethylpentane	22.66	43	131255	1.1802	ppbV	S	93
114)	Toluene	22.87	91	162659	1.0398	ppbV	S	100
117)	2-Methylheptane	23.31	43	88573	1.1058	ppbV	S	98
119)	Dibromochloromethane	23.56	129	99605	0.9178	ppbV	S	98
120)	3-Methylheptane	23.63	85	87766	1.1538	ppbV	S	95
122)	1,2-Dibromoethane	23.96	107	86031	1.0066	ppbV	S	97
125)	n-Octane	24.70	43	85013	1.0013	ppbV	S	96
126)	Tetrachloroethene	24.80	164	79171	0.8967	ppbV	S	96
128)	Chlorobenzene	26.02	112	116270	0.9248	ppbV	S	98
129)	Ethylbenzene	26.76	91	149650	0.8868	ppbV	S	98
130)	m/p-Xylene	27.13	91	234504m	1.7142	ppbV	S	
131)	Bromoform	27.15	173	64705	0.7422	ppbV	S	96
134)	Styrene	27.80	104	82944	0.8442	ppbV	S	99
135)	1,1,2,2-Tetrachloroethane	28.01	83	78280	0.8740	ppbV	S	100
136)	o-Xylene	28.00	91	115475	0.8795	ppbV	S	97
140)	n-Nonane	28.62	43	71165	0.9050	ppbV	S	98
142)	Isopropylbenzene	29.23	105	175007	0.7987	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102612.D Vial: 1
Acq On : 26 Oct 2011 9:05 pm Operator: KDK
Sample : 102 BLEND 100,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:54 19111 Quant Results File: RA110918.RES

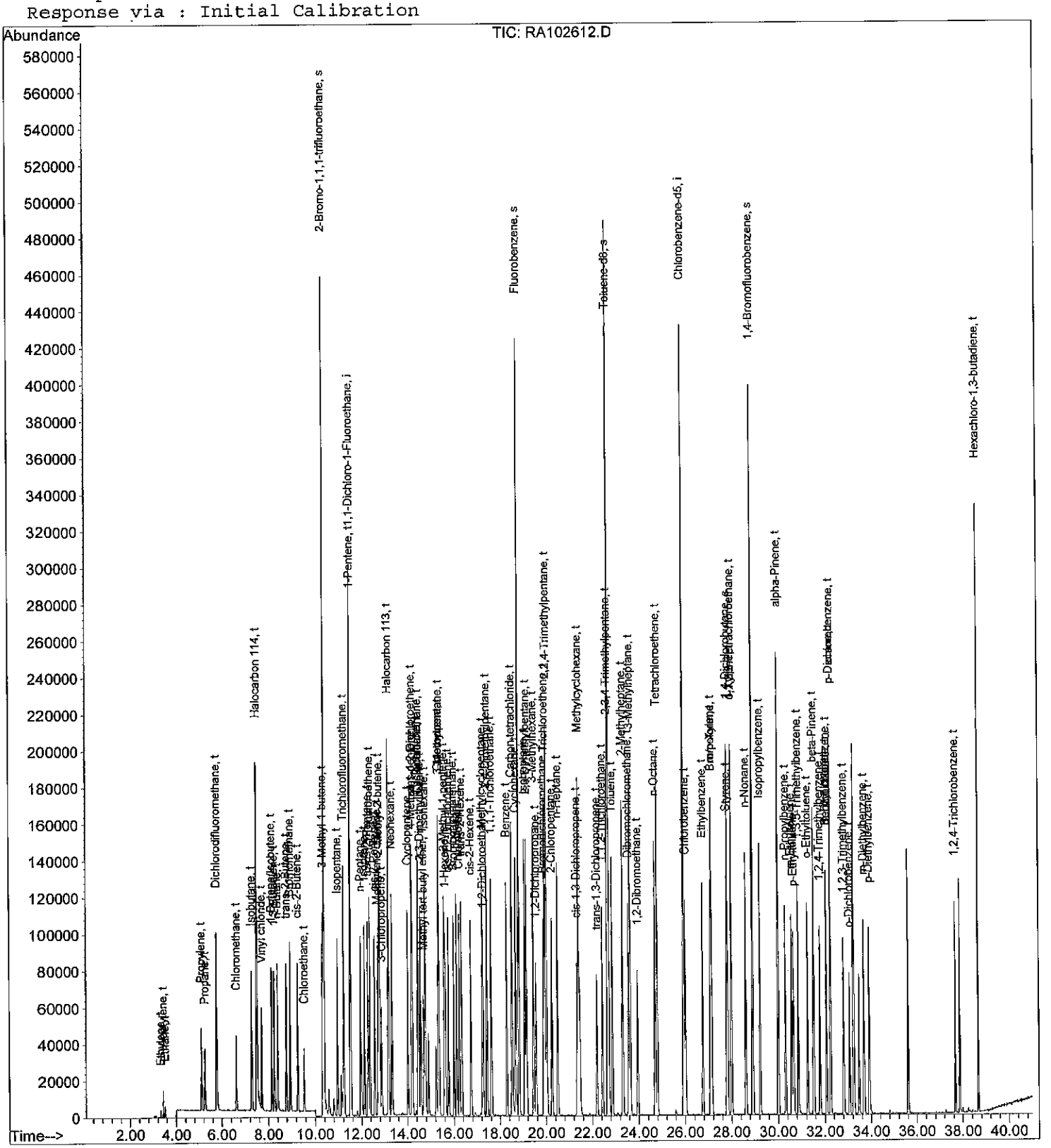
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144) alpha-Pinene	30.01	93	198618	1.1817	ppbV	S	99
147) n-Propylbenzene	30.33	91	154799	0.7550	ppbV	S	98
148) m-Ethyltoluene	30.59	105	121682	0.7272	ppbV	S	98
149) p-Ethyltoluene	30.67	105	114324	0.7200	ppbV	S	99
150) 1,3,5-Trimethylbenzene	30.86	105	122981	0.8214	ppbV	S	99
151) o-Ethyltoluene	31.26	105	132941	0.7390	ppbV	S	99
152) beta-Pinene	31.53	93	133949	0.7794	ppbV	S	99
153) 1,2,4-Trimethylbenzene	31.79	105	104772	0.7669	ppbV	S	99
156) Benzyl chloride	32.06	91	55208	0.7119	ppbV	S	97
157) m-Dichlorobenzene	32.07	146	71427	0.7347	ppbV	S	97
158) n-Decane	32.25	57	78946	0.8515	ppbV	S	98
159) p-Dichlorobenzene	32.25	146	67163	0.7267	ppbV	S	98
161) 1,2,3-Trimethylbenzene	32.81	105	100701	0.6911	ppbV	S	98
163) o-Dichlorobenzene	33.06	146	62919	0.6967	ppbV	S	97
167) m-Diethylbenzene	33.68	105	68452	0.6457	ppbV	S	96
168) p-Diethylbenzene	33.91	119	66667	0.6454	ppbV	S	97
172) 1,2,4-Trichlorobenzene	37.67	180	53794	1.2497	ppbV	S	95
174) Hexachloro-1,3-butadiene	38.66	225	78390	0.9547	ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102612.D Vial: 1
Acq On : 26 Oct 2011 9:05 pm Operator: KDK
Sample : 102 BLEND 100,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:54 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102613.D Vial: 1
Acq On : 26 Oct 2011 10:03 pm Operator: KDK
Sample : 102 BLEND 250,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:56 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	293750	2.0000 ppbV	0.03
82) Chlorobenzene-d5	25.94	117	479093	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	186855	2.1042 ppbV	0.03
Spiked Amount 2.000			Recovery	= 105.00%	
65) Fluorobenzene	18.81	96	627658	2.2447 ppbV	0.02
Spiked Amount 2.000			Recovery	= 112.00%	
113) Toluene-d8	22.71	98	570238	2.1714 ppbV	0.02
Spiked Amount 2.000			Recovery	= 108.50%	
115) 1,4-Dichlorobutane	27.83	90	51671	2.0050 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.50%	
141) 1,4-Bromofluorobenzene	28.91	95	248343	2.0563 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	

Target Compounds					Qvalue
3) Ethylene	3.33	26	22205m	2.8257 ppbV	S
4) Acetylene	3.44	26	41918	2.4366 ppbV	S 99
5) Ethane	3.52	26	6488	3.1137 ppbV	S 100
7) Propylene	5.10	41	81193	2.7838 ppbV	S 98
9) Propane	5.25	43	36790	2.8841 ppbV	S 94
10) Dichlorodifluoromethane	5.76	85	392094	2.6807 ppbV	S 99
11) Chloromethane	6.62	50	109626	2.7542 ppbV	S 99
12) Isobutane	7.27	43	210467	2.6547 ppbV	S 99
13) Halocarbon 114	7.48	85	448729	2.5588 ppbV	S 96
15) Vinyl chloride	7.70	62	148641	2.7517 ppbV	S 100
16) 1-Butene/Isobutene	8.13	41	134825	2.5742 ppbV	S 96
17) 1,3-Butadiene	8.25	39	78220	2.7260 ppbV	S 95
18) n-Butane	8.39	43	178892	2.5698 ppbV	S 98
20) trans-2-Butene	8.77	41	119868	2.5669 ppbV	S 97
23) Bromomethane	8.94	94	161891	2.6295 ppbV	S 100
24) cis-2-Butene	9.25	41	125660	2.7072 ppbV	S 99
25) Chloroethane	9.52	64	75294	2.6662 ppbV	S 98
27) 3-Methyl-1-butene	10.33	55	269251	2.7464 ppbV	S 97
31) Isopentane	10.95	41	103911	2.3620 ppbV	S 92
32) Trichlorofluoromethane	11.22	101	356812	2.4679 ppbV	S 99
33) 1-Pentene	11.53	42	134739	2.5831 ppbV	S 97
37) n-Pentane	11.95	43	192190	2.6098 ppbV	S 96
39) Isoprene	12.12	67	173985	2.6676 ppbV	S 98
40) trans-2-Pentene	12.27	55	225990	2.7423 ppbV	S 97
41) 1,1-Dichloroethene	12.36	61	199906	2.6691 ppbV	S 98
42) cis-2-Pentene	12.57	55	219993	2.6765 ppbV	S 97
43) Methylene chloride	12.70	49	125587	2.6245 ppbV	S 98
44) 2-Methyl-2-butene	12.75	55	234444	2.7921 ppbV	S 95
46) 3-Chloropropene	12.86	41	111738	2.4492 ppbV	S 93
47) Halocarbon 113	13.16	151	278954	2.3608 ppbV	S 91
48) Neohexane	13.31	43	147408	2.5544 ppbV	S 94
49) Cyclopentene	14.01	67	318057	2.5782 ppbV	S 99
50) trans-1,2-Dichloroethene	14.18	61	187612	2.7145 ppbV	S 97
51) 4-Methyl-1-pentene	14.21	43	165174	2.7911 ppbV	S 96
53) 1,1-Dichloroethane	14.47	63	253618	2.9631 ppbV	S 99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102613.D Vial: 1
Acq On : 26 Oct 2011 10:03 pm Operator: KDK
Sample : 102 BLEND 250,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:56 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Cyclopentane	14.45	42	211230	2.7017	ppbV	S	97
55)	2,3-Dimethylbutane	14.56	43	253623	2.7014	ppbV	S	98
56)	Methyl tert-butyl ether	14.68	73	308667	2.7880	ppbV	S	94
57)	Isohexane	14.77	42	134631	2.7858	ppbV	S	96
63)	Chloroprene	15.34	53	171069	2.7347	ppbV	S	98
64)	3-Methylpentane	15.36	57	270861	2.9092	ppbV	S	96
66)	2-Methyl-1-pentene	15.60	56	238724	3.0090	ppbV	S	95
67)	1-Hexene	15.63	41	102027	2.7191	ppbV	S	94
68)	cis-1,2-Dichloroethene	15.77	61	180704	2.9314	ppbV	S	99
69)	Bromochloromethane	16.00	130	154801	2.5807	ppbV	S	98
71)	n-Hexane	16.12	57	228420	2.9941	ppbV	S	96
72)	Chloroform	16.23	83	299735	2.7860	ppbV	S	97
74)	trans-2-Hexene	16.33	55	240745	2.9330	ppbV	S	98
77)	cis-2-Hexene	16.73	55	199089	2.7080	ppbV	S	96
78)	Methylcyclopentane	17.24	56	281476	2.8423	ppbV	S	97
79)	1,2-Dichloroethane	17.27	62	152857	2.8607	ppbV	S	99
80)	2,4-Dimethylpentane	17.42	43	248615	2.7492	ppbV	S	97
81)	1,1,1-Trichloroethane	17.61	97	315464	2.7919	ppbV	S	100
84)	Benzene	18.29	78	476251	3.1940	ppbV	S	99
85)	Carbon tetrachloride	18.51	117	318610	2.7155	ppbV	S	99
87)	Cyclohexane	18.68	56	233383	3.0117	ppbV	S	98
88)	Isoheptane	19.07	43	269316	2.8472	ppbV	S	98
89)	2,3-Dimethylpentane	19.15	56	258123	2.9016	ppbV	S	97
91)	3-Methylhexane	19.45	43	214551	2.8171	ppbV	S	97
92)	1,2-Dichloropropane	19.56	63	150432	3.1847	ppbV	S	95
93)	Bromodichloromethane	19.89	83	295654	2.7916	ppbV	S	99
94)	Trichloroethene	19.94	130	243988	2.4691	ppbV	S	95
97)	2,2,4-Trimethylpentane	20.02	57	730990	2.9212	ppbV	S	97
98)	2-Chloropentane	20.25	70	226911	3.0324	ppbV	S	99
100)	n-Heptane	20.50	71	170580	3.0431	ppbV	S	92
104)	cis-1,3-Dichloropropene	21.33	75	231060	3.0944	ppbV	S	94
106)	Methylcyclohexane	21.41	83	340721	3.0611	ppbV	S	94
110)	trans-1,3-Dichloropropene	22.21	75	207330	3.1429	ppbV	S	97
111)	1,1,2-Trichloroethane	22.44	97	186824	2.9926	ppbV	S	98
112)	2,3,4-Trimethylpentane	22.66	43	345188	2.7856	ppbV	S	92
114)	Toluene	22.87	91	536870	3.0801	ppbV	S	99
117)	2-Methylheptane	23.31	43	252813	2.8327	ppbV	S	96
119)	Dibromochloromethane	23.56	129	313328	2.5913	ppbV	S	98
120)	3-Methylheptane	23.63	85	247266	2.9175	ppbV	S	97
122)	1,2-Dibromoethane	23.95	107	269299	2.8279	ppbV	S	98
125)	n-Octane	24.71	43	260525	2.7539	ppbV	S	98
126)	Tetrachloroethene	24.80	164	239811	2.4377	ppbV	S	97
128)	Chlorobenzene	26.02	112	382713	2.7321	ppbV	S	99
129)	Ethylbenzene	26.76	91	536634	2.8542	ppbV	S	98
130)	m/p-Xylene	27.13	91	825460m	5.4155	ppbV	S	
131)	Bromoform	27.15	173	221675	2.2821	ppbV	S	99
134)	Styrene	27.80	104	299319	2.7342	ppbV	S	98
135)	1,1,2,2-Tetrachloroethane	28.01	83	261219	2.6177	ppbV	S	98
136)	o-Xylene	28.00	91	403009	2.7549	ppbV	S	98
140)	n-Nonane	28.62	43	229688	2.6215	ppbV	S	98
142)	Isopropylbenzene	29.23	105	600052	2.4578	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102613.D Vial: 1
Acq On : 26 Oct 2011 10:03 pm Operator: KDK
Sample : 102 BLEND 250,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:56 19111 Quant Results File: RA110918.RES

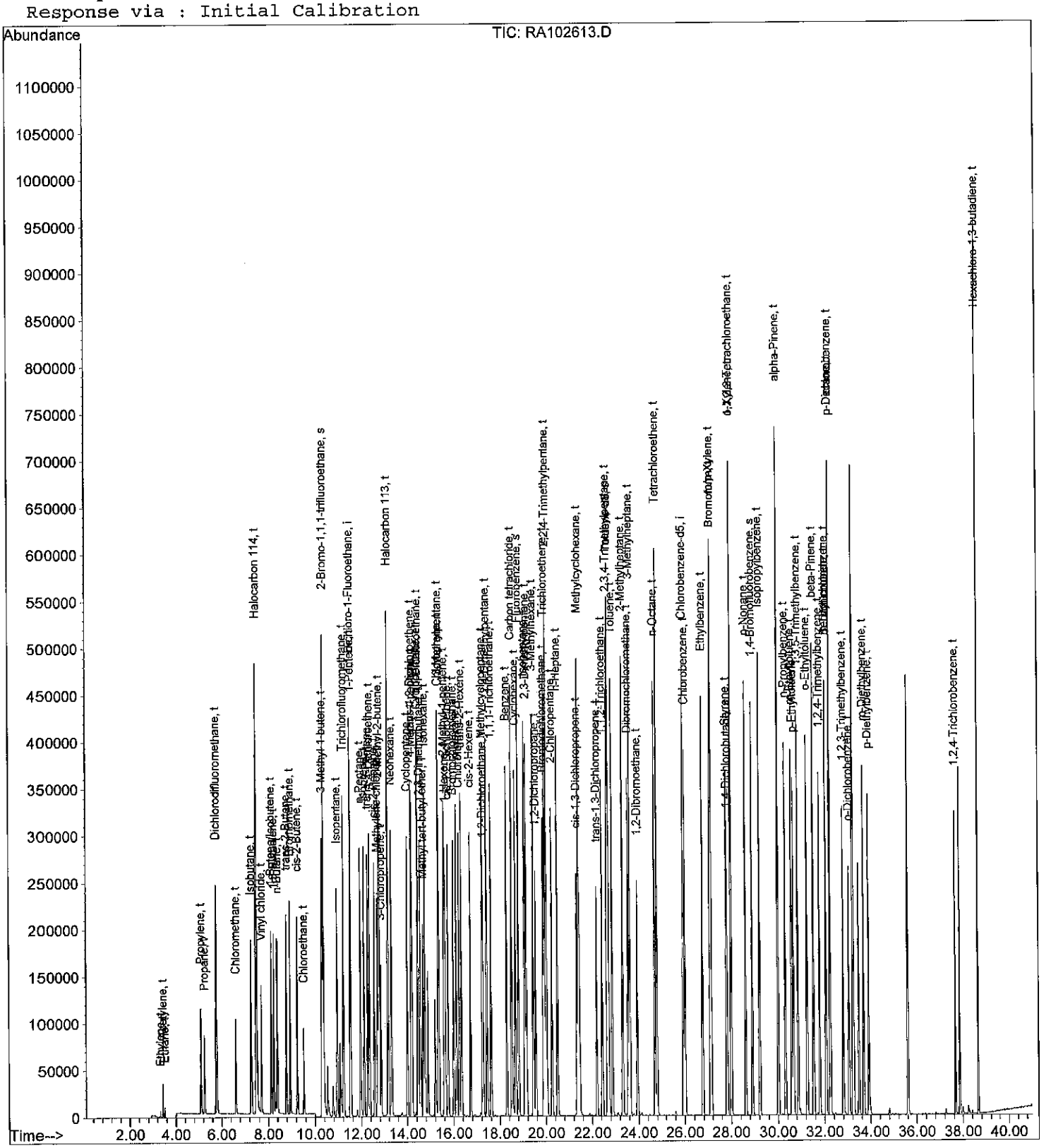
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
144) alpha-Pinene	30.01	93	573993	3.0649 ppbV	S	98
147) n-Propylbenzene	30.33	91	555612	2.4322 ppbV	S	98
148) m-Ethyltoluene	30.59	105	435627	2.3367 ppbV	S	99
149) p-Ethyltoluene	30.67	105	413897	2.3394 ppbV	S	98
150) 1,3,5-Trimethylbenzene	30.86	105	427527	2.5629 ppbV	S	98
151) o-Ethyltoluene	31.26	105	462765	2.3087 ppbV	S	99
152) beta-Pinene	31.54	93	403149	2.1054 ppbV	S	97
153) 1,2,4-Trimethylbenzene	31.79	105	370999	2.4372 ppbV	S	98
156) Benzyl chloride	32.07	91	203813	2.3587 ppbV	S	97
157) m-Dichlorobenzene	32.07	146	246476	2.2755 ppbV	S	96
158) n-Decane	32.25	57	255998	2.4781 ppbV	S	98
159) p-Dichlorobenzene	32.24	146	229519	2.2288 ppbV	S	96
161) 1,2,3-Trimethylbenzene	32.80	105	346204	2.1323 ppbV	S	98
163) o-Dichlorobenzene	33.06	146	214126	2.1280 ppbV	S	95
167) m-Diethylbenzene	33.69	105	232954	1.9721 ppbV	S	99
168) p-Diethylbenzene	33.91	119	226051	1.9641 ppbV	S	97
172) 1,2,4-Trichlorobenzene	37.67	180	152237	3.1741 ppbV	S	99
174) Hexachloro-1,3-butadiene	38.66	225	223373	2.4417 ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102613.D Vial: 1
Acq On : 26 Oct 2011 10:03 pm Operator: KDK
Sample : 102 BLEND 250,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:56 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102614.D Vial: 1
Acq On : 26 Oct 2011 11:03 pm Operator: KDK
Sample : 102 BLEND 500,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:58 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.50	81	282739	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.94	117	496721	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.37	83	177976	2.0822 ppbV	0.02
Spiked Amount 2.000			Recovery	= 104.00%	
65) Fluorobenzene	18.81	96	610748	2.2693 ppbV	0.01
Spiked Amount 2.000			Recovery	= 113.50%	
113) Toluene-d8	22.71	98	567848	2.0856 ppbV	0.02
Spiked Amount 2.000			Recovery	= 104.50%	
115) 1,4-Dichlorobutane	27.83	90	54471	2.0387 ppbV	0.01
Spiked Amount 2.000			Recovery	= 102.00%	
141) 1,4-Bromofluorobenzene	28.91	95	257575	2.0571 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	

Target Compounds					Qvalue
3) Ethylene	3.33	26	43200m	5.7116 ppbV	S
4) Acetylene	3.44	26	82724	4.9958 ppbV	S 99
5) Ethane	3.52	26	10182	5.0768 ppbV	S 99
7) Propylene	5.09	41	160131	5.7041 ppbV	S 98
9) Propane	5.25	43	71986	5.8630 ppbV	S 96
10) Dichlorodifluoromethane	5.76	85	766316	5.4433 ppbV	S 100
11) Chloromethane	6.61	50	222156	5.7986 ppbV	S 98
12) Isobutane	7.26	43	414687	5.4344 ppbV	S 99
13) Halocarbon 114	7.47	85	922866	5.4674 ppbV	S 98
15) Vinyl chloride	7.69	62	303291	5.8333 ppbV	S 99
16) 1-Butene/Isobutene	8.12	41	275498	5.4650 ppbV	S 96
17) 1,3-Butadiene	8.24	39	159988	5.7927 ppbV	S 94
18) n-Butane	8.39	43	352228	5.2569 ppbV	S 99
20) trans-2-Butene	8.77	41	246253	5.4787 ppbV	S 96
23) Bromomethane	8.93	94	331787	5.5990 ppbV	S 98
24) cis-2-Butene	9.24	41	260610	5.8332 ppbV	S 97
25) Chloroethane	9.51	64	158264	5.8224 ppbV	S 97
27) 3-Methyl-1-butene	10.32	55	552780	5.8580 ppbV	S 98
31) Isopentane	10.94	41	210509	4.9714 ppbV	S 92
32) Trichlorofluoromethane	11.21	101	733069	5.2678 ppbV	S 98
33) 1-Pentene	11.52	42	273323	5.4439 ppbV	S 94
37) n-Pentane	11.94	43	377797	5.3301 ppbV	S 97
39) Isoprene	12.11	67	354185	5.6419 ppbV	S 97
40) trans-2-Pentene	12.27	55	455440	5.7419 ppbV	S 96
41) 1,1-Dichloroethene	12.35	61	408481	5.6664 ppbV	S 99
42) cis-2-Pentene	12.56	55	442712	5.5959 ppbV	S 96
43) Methylene chloride	12.69	49	259428	5.6326 ppbV	S 97
44) 2-Methyl-2-butene	12.74	55	465479	5.7595 ppbV	S 96
46) 3-Chloropropene	12.85	41	231148	5.2640 ppbV	S 92
47) Halocarbon 113	13.15	151	576519	5.0692 ppbV	S 90
48) Neohexane	13.30	43	303159	5.4579 ppbV	S 94
49) Cyclopentene	14.00	67	636591	5.3611 ppbV	S 98
50) trans-1,2-Dichloroethene	14.17	61	385300	5.7919 ppbV	S 99
51) 4-Methyl-1-pentene	14.20	43	340352	5.9753 ppbV	S 94
53) 1,1-Dichloroethane	14.46	63	509233	6.1813 ppbV	S 99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102614.D Vial: 1
Acq On : 26 Oct 2011 11:03 pm Operator: KDK
Sample : 102 BLEND 500,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:58 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Cyclopentane	14.44	42	417914	5.5533	ppbV	S	96
55)	2,3-Dimethylbutane	14.55	43	520625	5.7612	ppbV	S	99
56)	Methyl tert-butyl ether	14.67	73	734631	6.8938	ppbV	S	95
57)	Isohexane	14.76	42	271628	5.8394	ppbV	S	96
63)	Chloroprene	15.33	53	336808	5.5938	ppbV	S	96
64)	3-Methylpentane	15.36	57	550205	6.1396	ppbV	S	97
66)	2-Methyl-1-pentene	15.58	56	456287	5.9753	ppbV	S	93
67)	1-Hexene	15.62	41	181468	5.0246	ppbV	S	89
68)	cis-1,2-Dichloroethene	15.76	61	368024	6.2026	ppbV	S	99
69)	Bromochloromethane	15.99	130	313199	5.4248	ppbV	S	96
71)	n-Hexane	16.11	57	443682	6.0423	ppbV	S	96
72)	Chloroform	16.23	83	590603	5.7034	ppbV	S	98
74)	trans-2-Hexene	16.33	55	460476	5.8284	ppbV	S	97
77)	cis-2-Hexene	16.73	55	383817	5.4240	ppbV	S	95
78)	Methylcyclopentane	17.23	56	568458	5.9638	ppbV	S	97
79)	1,2-Dichloroethane	17.26	62	306906	5.9674	ppbV	S	99
80)	2,4-Dimethylpentane	17.42	43	509491	5.8534	ppbV	S	96
81)	1,1,1-Trichloroethane	17.61	97	644301	5.9242	ppbV	S	99
84)	Benzene	18.28	78	928685	6.0073	ppbV	S	99
85)	Carbon tetrachloride	18.50	117	654484	5.3801	ppbV	S	100
87)	Cyclohexane	18.67	56	479363	5.9664	ppbV	S	97
88)	Isoheptane	19.07	43	552912	5.6380	ppbV	S	96
89)	2,3-Dimethylpentane	19.14	56	533184	5.7809	ppbV	S	97
91)	3-Methylhexane	19.44	43	436319	5.5257	ppbV	S	97
92)	1,2-Dichloropropane	19.55	63	298249	6.0900	ppbV	S	95
93)	Bromodichloromethane	19.88	83	553022	5.0364	ppbV	S	98
94)	Trichloroethene	19.94	130	456553	4.4563	ppbV	S	94
97)	2,2,4-Trimethylpentane	20.01	57	1507794	5.8117	ppbV	S	98
98)	2-Chloropentane	20.25	70	479077	6.1750	ppbV	S	98
100)	n-Heptane	20.50	71	338853	5.8304	ppbV	S	91
104)	cis-1,3-Dichloropropene	21.33	75	429882	5.5527	ppbV	S	96
106)	Methylcyclohexane	21.40	83	699948	6.0653	ppbV	S	96
110)	trans-1,3-Dichloropropene	22.20	75	400954	5.8624	ppbV	S	97
111)	1,1,2-Trichloroethane	22.44	97	350970	5.4224	ppbV	S	98
112)	2,3,4-Trimethylpentane	22.66	43	715155	5.5664	ppbV	S	93
114)	Toluene	22.87	91	1039613	5.7527	ppbV	S	98
117)	2-Methylheptane	23.31	43	526771	5.6928	ppbV	S	97
119)	Dibromochloromethane	23.55	129	574765	4.5848	ppbV	S	99
120)	3-Methylheptane	23.63	85	522648	5.9478	ppbV	S	97
122)	1,2-Dibromoethane	23.95	107	500096	5.0652	ppbV	S	98
125)	n-Octane	24.70	43	537896	5.4841	ppbV	S	96
126)	Tetrachloroethene	24.80	164	441452	4.3281	ppbV	S	97
128)	Chlorobenzene	26.01	112	713877	4.9154	ppbV	S	99
129)	Ethylbenzene	26.76	91	1113451	5.7119	ppbV	S	100
130)	m/p-Xylene	27.13	91	1738168m	10.9986	ppbV	S	
131)	Bromoform	27.15	173	423993	4.2100	ppbV	S	98
134)	Styrene	27.79	104	600639	5.2920	ppbV	S	97
135)	1,1,2,2-Tetrachloroethane	28.00	83	562672	5.4384	ppbV	S	98
136)	o-Xylene	28.00	91	894015	5.8945	ppbV	S	98
140)	n-Nonane	28.62	43	477150	5.2526	ppbV	S	97
142)	Isopropylbenzene	29.23	105	1348095	5.3258	ppbV	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102614.D Vial: 1
Acq On : 26 Oct 2011 11:03 pm Operator: KDK
Sample : 102 BLEND 500,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:58 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

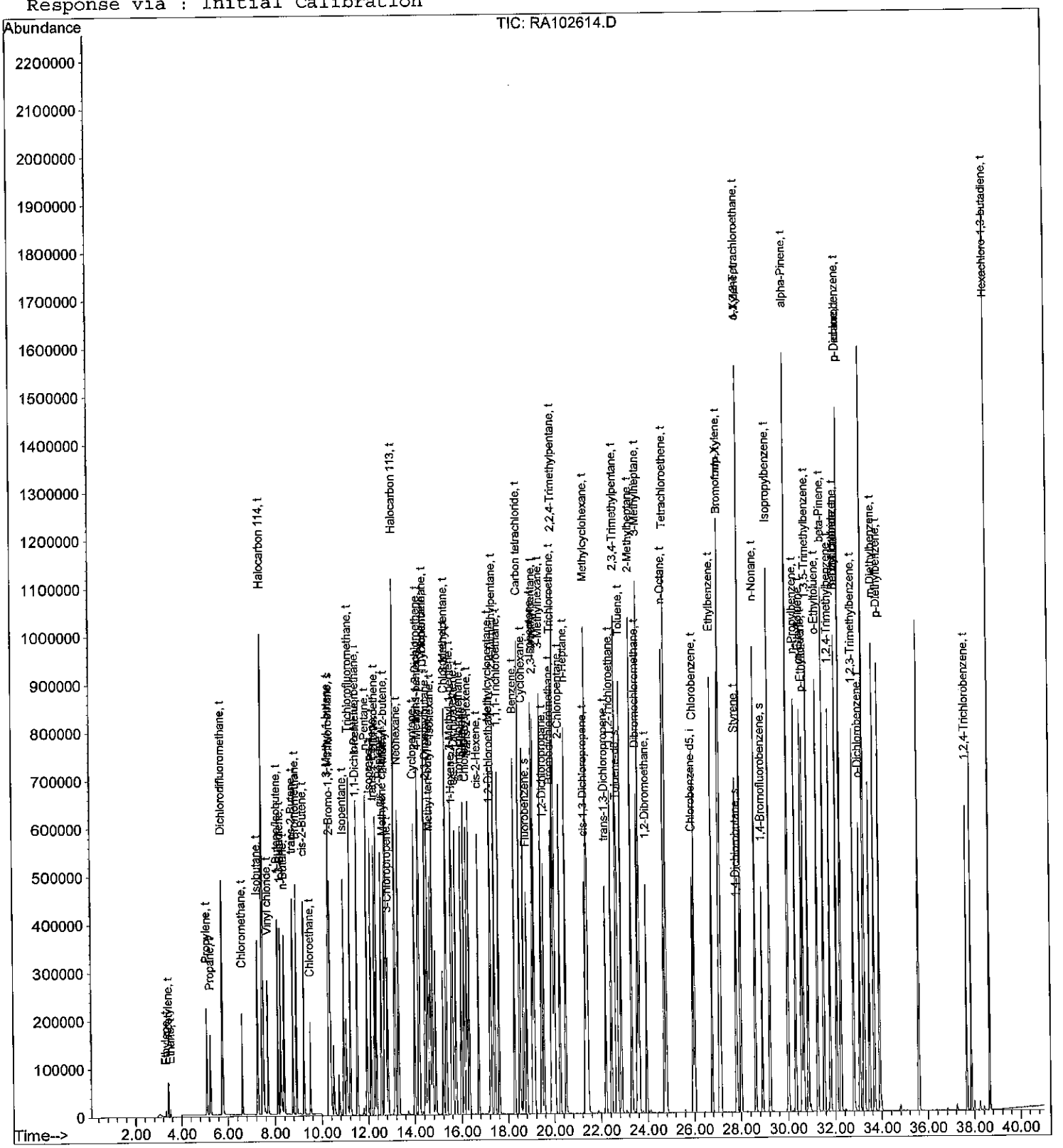
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144) alpha-Pinene	30.01	93	1236772	6.3695	ppbV	S	99
147) n-Propylbenzene	30.33	91	1196429	5.0516	ppbV	S	98
148) m-Ethyltoluene	30.59	105	954495	4.9382	ppbV	S	100
149) p-Ethyltoluene	30.67	105	902111	4.9180	ppbV	S	100
150) 1,3,5-Trimethylbenzene	30.87	105	953552	5.5134	ppbV	S	99
151) o-Ethyltoluene	31.26	105	1032825	4.9699	ppbV	S	99
152) beta-Pinene	31.53	93	886946	4.4677	ppbV	S	98
153) 1,2,4-Trimethylbenzene	31.79	105	835076	5.2911	ppbV	S	99
156) Benzyl chloride	32.07	91	504128	5.6271	ppbV	S	99
157) m-Dichlorobenzene	32.07	146	484899	4.3177	ppbV	S	97
158) n-Decane	32.25	57	557074	5.2012	ppbV	S	98
159) p-Dichlorobenzene	32.24	146	462710	4.3339	ppbV	S	97
161) 1,2,3-Trimethylbenzene	32.81	105	848247	5.0390	ppbV	S	99
163) o-Dichlorobenzene	33.06	146	481505	4.6154	ppbV	S	97
167) m-Diethylbenzene	33.68	105	629717	5.1416	ppbV	S	97
168) p-Diethylbenzene	33.92	119	616445	5.1661	ppbV	S	98
172) 1,2,4-Trichlorobenzene	37.67	180	300262	6.0382	ppbV	S	97
174) Hexachloro-1,3-butadiene	38.66	225	440170	4.6407	ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102614.D Vial: 1
Acq On : 26 Oct 2011 11:03 pm Operator: KDK
Sample : 102 BLEND 500,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 11:58 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102615.D Vial: 1
Acq On : 27 Oct 2011 12:06 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,750 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:00 19111 Quant Results File: RA110918.RES

KDK 10/27/11

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

DAH 10-27-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.49	81	293996	2.0000 ppbV	0.00
82) Chlorobenzene-d5	25.93	117	479276	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.36	83	185896	2.0916 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.50%	
65) Fluorobenzene	18.80	96	600759	2.1467 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	
113) Toluene-d8	22.71	98	559380	2.1293 ppbV	0.01
Spiked Amount 2.000			Recovery	= 106.50%	
115) 1,4-Dichlorobutane	27.83	90	54897	2.1294 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	
141) 1,4-Bromofluorobenzene	28.91	95	258952	2.1433 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.00%	

Target Compounds					Qvalue	
3) Ethylene	3.33	26	63753m	8.1062 ppbV	S	
4) Acetylene	3.44	26	123462	7.1705 ppbV	S	99
5) Ethane	3.52	26	13763	6.5996 ppbV	S	99
7) Propylene	5.09	41	240911	8.2530 ppbV	S	98
9) Propane	5.25	43	108236	8.4778 ppbV	S	95
10) Dichlorodifluoromethane	5.75	85	1132419	7.7358 ppbV	S	99
11) Chloromethane	6.60	50	331596	8.3238 ppbV	S	98
12) Isobutane	7.25	43	619034	7.8017 ppbV	S	99
13) Halocarbon 114	7.46	85	1353903	7.7139 ppbV	S	98
15) Vinyl chloride	7.69	62	451079	8.3436 ppbV	S	99
16) 1-Butene/Isobutene	8.12	41	404882	7.7240 ppbV	S	96
17) 1,3-Butadiene	8.23	39	238936	8.3199 ppbV	S	96
18) n-Butane	8.38	43	519110	7.4509 ppbV	S	98
20) trans-2-Butene	8.76	41	362920	7.7652 ppbV	S	96
23) Bromomethane	8.91	94	490208	7.9556 ppbV	S	99
24) cis-2-Butene	9.23	41	386176	8.3127 ppbV	S	97
25) Chloroethane	9.50	64	236989	8.3848 ppbV	S	98
27) 3-Methyl-1-butene	10.31	55	822055	8.3781 ppbV	S	97
31) Isopentane	10.93	41	308120	6.9979 ppbV	S	95
32) Trichlorofluoromethane	11.20	101	1073279	7.4172 ppbV	S	99
33) 1-Pentene	11.50	42	410881	7.8704 ppbV	S	97
37) n-Pentane	11.93	43	558592	7.5790 ppbV	S	98
39) Isoprene	12.10	67	527023	8.0736 ppbV	S	98
40) trans-2-Pentene	12.25	55	685911	8.3164 ppbV	S	96
41) 1,1-Dichloroethene	12.34	61	605616	8.0794 ppbV	S	99
42) cis-2-Pentene	12.55	55	670244	8.1475 ppbV	S	97
43) Methylene chloride	12.68	49	387042	8.0816 ppbV	S	97
44) 2-Methyl-2-butene	12.73	55	696958	8.2934 ppbV	S	96
46) 3-Chloropropene	12.83	41	348285	7.6278 ppbV	S	94
47) Halocarbon 113	13.14	151	860508	7.2765 ppbV	S	91
48) Neohexane	13.29	43	452472	7.8341 ppbV	S	94
49) Cyclopentene	13.99	67	956756	7.7489 ppbV	S	97
50) trans-1,2-Dichloroethene	14.16	61	572625	8.2783 ppbV	S	96
51) 4-Methyl-1-pentene	14.19	43	509286	8.5987 ppbV	S	96
53) 1,1-Dichloroethane	14.45	63	764808	8.9282 ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102615.D Vial: 1
Acq On : 27 Oct 2011 12:06 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,750 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:00 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
54) Cyclopentane	14.43	42	616397	7.8772 ppbV	S	96
55) 2,3-Dimethylbutane	14.54	43	775097	8.2488 ppbV	S	97
56) Methyl tert-butyl ether	14.66	73	1144726	10.3309 ppbV	S	96
57) Isohexane	14.75	42	401560	8.3021 ppbV	S	96
63) Chloroprene	15.32	53	509477	8.1376 ppbV	S	96
64) 3-Methylpentane	15.35	57	814611	8.7420 ppbV	S	97
66) 2-Methyl-1-pentene	15.57	56	663971	8.3621 ppbV	S	95
67) 1-Hexene	15.61	41	288209	7.6746 ppbV	S	92
68) cis-1,2-Dichloroethene	15.75	61	547395	8.8724 ppbV	S	98
69) Bromochloromethane	15.98	130	474009	7.8957 ppbV	S	96
71) n-Hexane	16.11	57	666736	8.7323 ppbV	S	95
72) Chloroform	16.22	83	890162	8.2670 ppbV	S	98
74) trans-2-Hexene	16.32	55	699803	8.5184 ppbV	S	97
77) cis-2-Hexene	16.72	55	582769	7.9202 ppbV	S	96
78) Methylcyclopentane	17.23	56	851532	8.5914 ppbV	S	95
79) 1,2-Dichloroethane	17.26	62	464722	8.6899 ppbV	S	98
80) 2,4-Dimethylpentane	17.41	43	762839	8.4284 ppbV	S	95
81) 1,1,1-Trichloroethane	17.60	97	972796	8.6022 ppbV	S	99
84) Benzene	18.28	78	1416879	9.4988 ppbV	S	99
85) Carbon tetrachloride	18.50	117	994908	8.4762 ppbV	S	99
87) Cyclohexane	18.67	56	722383	9.3184 ppbV	S	96
88) Isoheptane	19.06	43	833744	8.8110 ppbV	S	96
89) 2,3-Dimethylpentane	19.14	56	798544	8.9732 ppbV	S	96
91) 3-Methylhexane	19.44	43	658675	8.6454 ppbV	S	96
92) 1,2-Dichloropropane	19.55	63	466315	9.8683 ppbV	S	95
93) Bromodichloromethane	19.87	83	848960	8.0130 ppbV	S	99
94) Trichloroethene	19.93	130	690232	6.9823 ppbV	S	95
97) 2,2,4-Trimethylpentane	20.02	57	2262860	9.0395 ppbV	S	98
98) 2-Chloropentane	20.24	70	742192	9.9146 ppbV	S	96
100) n-Heptane	20.49	71	523574	9.3367 ppbV	S	92
104) cis-1,3-Dichloropropene	21.32	75	679171	9.0920 ppbV	S	95
106) Methylcyclohexane	21.40	83	1057258	9.4950 ppbV	S	95
110) trans-1,3-Dichloropropene	22.20	75	639994	9.6980 ppbV	S	97
111) 1,1,2-Trichloroethane	22.44	97	559716	8.9622 ppbV	S	98
112) 2,3,4-Trimethylpentane	22.66	43	1067128	8.6083 ppbV	S	93
114) Toluene	22.87	91	1663255	9.5387 ppbV	S	100
117) 2-Methylheptane	23.32	43	796143	8.9170 ppbV	S	97
119) Dibromochloromethane	23.56	129	918879	7.5965 ppbV	S	99
120) 3-Methylheptane	23.63	85	797745	9.4089 ppbV	S	96
122) 1,2-Dibromoethane	23.95	107	806710	8.4681 ppbV	S	98
125) n-Octane	24.70	43	842378	8.9010 ppbV	S	96
126) Tetrachloroethene	24.80	164	694887	7.0609 ppbV	S	97
128) Chlorobenzene	26.01	112	1174299	8.3800 ppbV	S	99
129) Ethylbenzene	26.76	91	1870361	9.9441 ppbV	S	99
130) m/p-Xylene	27.13	91	2945004m	19.3134 ppbV	S	
131) Bromoform	27.15	173	722295	7.4329 ppbV	S	99
134) Styrene	27.80	104	1038942	9.4870 ppbV	S	98
135) 1,1,2,2-Tetrachloroethane	28.00	83	963055	9.6470 ppbV	S	98
136) o-Xylene	28.00	91	1504044	10.2775 ppbV	S	100
140) n-Nonane	28.62	43	781854	8.9201 ppbV	S	97
142) Isopropylbenzene	29.23	105	2250385	9.2140 ppbV	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102615.D Vial: 1
Acq On : 27 Oct 2011 12:06 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,750 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:00 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

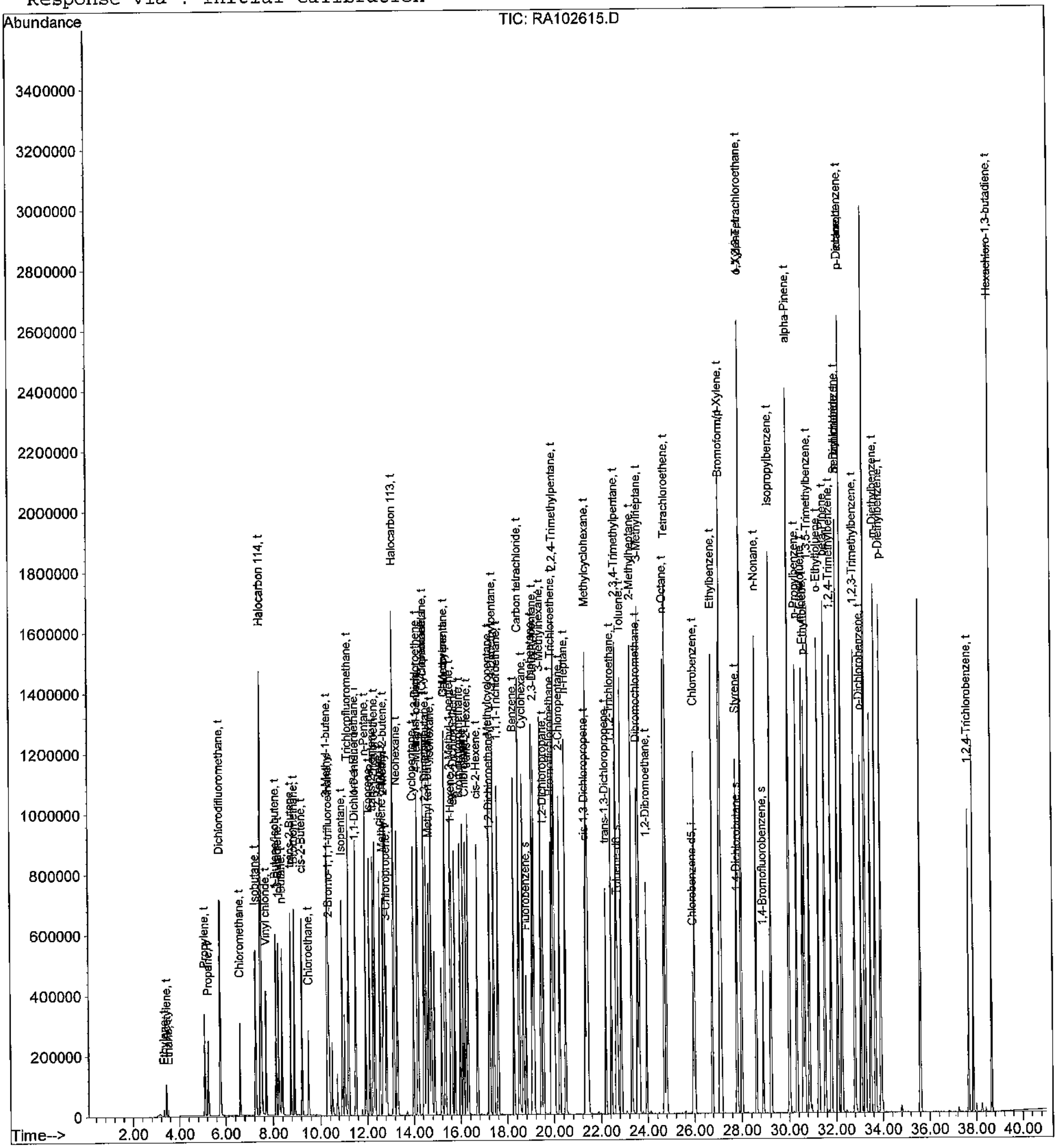
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
144)	alpha-Pinene	30.02	93	1883908	10.0555	ppbV	S	99
147)	n-Propylbenzene	30.33	91	2068162	9.0501	ppbV	S	98
148)	m-Ethyltoluene	30.59	105	1659026	8.8957	ppbV	S	100
149)	p-Ethyltoluene	30.68	105	1572369	8.8840	ppbV	S	99
150)	1,3,5-Trimethylbenzene	30.87	105	1652112	9.9001	ppbV	S	99
151)	o-Ethyltoluene	31.26	105	1790916	8.9315	ppbV	S	99
152)	beta-Pinene	31.54	93	1361902	7.1098	ppbV	S	97
153)	1,2,4-Trimethylbenzene	31.79	105	1553392	10.2007	ppbV	S	98
156)	Benzyl chloride	32.07	91	1011038	11.6960	ppbV	S	98
157)	m-Dichlorobenzene	32.07	146	943949	8.7112	ppbV	S	97
158)	n-Decane	32.25	57	973310	9.4183	ppbV	S	97
159)	p-Dichlorobenzene	32.25	146	921039	8.9407	ppbV	S	98
161)	1,2,3-Trimethylbenzene	32.81	105	1593859	9.8129	ppbV	S	98
163)	o-Dichlorobenzene	33.06	146	961266	9.5496	ppbV	S	97
167)	m-Diethylbenzene	33.69	105	1116062	9.4443	ppbV	S	98
168)	p-Diethylbenzene	33.92	119	1102403	9.5750	ppbV	S	98
172)	1,2,4-Trichlorobenzene	37.67	180	474618	9.8919	ppbV	S	98
174)	Hexachloro-1,3-butadiene	38.66	225	677837	7.4065	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102615.D Vial: 1
Acq On : 27 Oct 2011 12:06 am Operator: KDK
Sample : 102 BLEND 750,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,750 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:00 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102616.D Vial: 1
Acq On : 27 Oct 2011 1:11 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:02 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.48	81	291738	2.0000 ppbV	0.00
82) Chlorobenzene-d5	25.93	117	497138	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.35	83	183216	2.0774 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
65) Fluorobenzene	18.80	96	614692	2.2135 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.50%	
113) Toluene-d8	22.71	98	571212	2.0962 ppbV	0.01
Spiked Amount 2.000			Recovery	= 105.00%	
115) 1,4-Dichlorobutane	27.83	90	58714	2.1956 ppbV	0.01
Spiked Amount 2.000			Recovery	= 110.00%	
141) 1,4-Bromofluorobenzene	28.91	95	273613	2.1833 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.00%	

Target Compounds					Qvalue
3) Ethylene	3.33	26	86089m	11.0310 ppbV	S
4) Acetylene	3.44	26	164571	9.6321 ppbV	S 99
5) Ethane	3.52	26	16968	8.1994 ppbV	S 100
7) Propylene	5.09	41	320064	11.0494 ppbV	S 98
9) Propane	5.24	43	144900	11.4375 ppbV	S 94
10) Dichlorodifluoromethane	5.75	85	1512704	10.4136 ppbV	S 99
11) Chloromethane	6.60	50	444221	11.2372 ppbV	S 98
12) Isobutane	7.25	43	827614	10.5111 ppbV	S 100
13) Halocarbon 114	7.46	85	1804507	10.3608 ppbV	S 96
15) Vinyl chloride	7.68	62	607375	11.3216 ppbV	S 99
16) 1-Butene/Isobutene	8.11	41	544106	10.4603 ppbV	S 97
17) 1,3-Butadiene	8.23	39	315839	11.0829 ppbV	S 94
18) n-Butane	8.37	43	692996	10.0237 ppbV	S 98
20) trans-2-Butene	8.75	41	485954	10.4781 ppbV	S 96
23) Bromomethane	8.91	94	655981	10.7284 ppbV	S 99
24) cis-2-Butene	9.23	41	514941	11.1703 ppbV	S 98
25) Chloroethane	9.50	64	321878	11.4764 ppbV	S 98
27) 3-Methyl-1-butene	10.30	55	1109360	11.3937 ppbV	S 98
31) Isopentane	10.93	41	410995	9.4067 ppbV	S 96
32) Trichlorofluoromethane	11.19	101	1441417	10.0384 ppbV	S 100
33) 1-Pentene	11.50	42	554822	10.7098 ppbV	S 95
37) n-Pentane	11.92	43	749899	10.2534 ppbV	S 97
39) Isoprene	12.10	67	716445	11.0604 ppbV	S 98
40) trans-2-Pentene	12.25	55	925432	11.3073 ppbV	S 96
41) 1,1-Dichloroethene	12.33	61	809872	10.8880 ppbV	S 99
42) cis-2-Pentene	12.54	55	906929	11.1100 ppbV	S 97
43) Methylene chloride	12.67	49	517295	10.8850 ppbV	S 95
44) 2-Methyl-2-butene	12.73	55	942440	11.3013 ppbV	S 96
46) 3-Chloropropene	12.83	41	470665	10.3879 ppbV	S 93
47) Halocarbon 113	13.14	151	1154271	9.8361 ppbV	S 91
48) Neohexane	13.29	43	602162	10.5066 ppbV	S 93
49) Cyclopentene	13.99	67	1296104	10.5786 ppbV	S 97
50) trans-1,2-Dichloroethene	14.15	61	771150	11.2346 ppbV	S 98
51) 4-Methyl-1-pentene	14.19	43	640325	10.8949 ppbV	S 95
53) 1,1-Dichloroethane	14.45	63	1036108	12.1889 ppbV	S 99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102616.D Vial: 1
Acq On : 27 Oct 2011 1:11 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:02 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Cyclopentane	14.43	42	830204	10.6917	ppbV	S	95
55)	2,3-Dimethylbutane	14.53	43	1039043	11.1433	ppbV	S	98
56)	Methyl tert-butyl ether	14.65	73	1567957	14.2599	ppbV	S	96
57)	Isohexane	14.74	42	540804	11.2674	ppbV	S	97
63)	Chloroprene	15.32	53	690259	11.1104	ppbV	S	96
64)	3-Methylpentane	15.34	57	1093866	11.8297	ppbV	S	97
66)	2-Methyl-1-pentene	15.57	56	955314	12.1244	ppbV	S	95
67)	1-Hexene	15.61	41	355639	9.5435	ppbV	S	88
68)	cis-1,2-Dichloroethene	15.74	61	741573	12.1128	ppbV	S	99
69)	Bromochloromethane	15.98	130	640242	10.7473	ppbV	S	97
71)	n-Hexane	16.10	57	916058	12.0905	ppbV	S	95
72)	Chloroform	16.21	83	1214669	11.3681	ppbV	S	98
74)	trans-2-Hexene	16.31	55	970987	11.9109	ppbV	S	97
77)	cis-2-Hexene	16.71	55	805401	11.0306	ppbV	S	95
78)	Methylcyclopentane	17.22	56	1150666	11.6994	ppbV	S	97
79)	1,2-Dichloroethane	17.25	62	638023	12.0228	ppbV	S	99
80)	2,4-Dimethylpentane	17.41	43	1022523	11.3851	ppbV	S	96
81)	1,1,1-Trichloroethane	17.60	97	1310076	11.6743	ppbV	S	99
84)	Benzene	18.27	78	1951557	12.6132	ppbV	S	99
85)	Carbon tetrachloride	18.49	117	1337226	10.9833	ppbV	S	100
87)	Cyclohexane	18.66	56	973005	12.1004	ppbV	S	96
88)	Isoheptane	19.06	43	1112335	11.3328	ppbV	S	95
89)	2,3-Dimethylpentane	19.13	56	1062142	11.5064	ppbV	S	97
91)	3-Methylhexane	19.44	43	886867	11.2222	ppbV	S	95
92)	1,2-Dichloropropane	19.54	63	647556	13.2114	ppbV	S	96
93)	Bromodichloromethane	19.87	83	1182455	10.7597	ppbV	S	99
94)	Trichloroethene	19.93	130	955878	9.3222	ppbV	S	94
97)	2,2,4-Trimethylpentane	20.01	57	3027831	11.6608	ppbV	S	98
98)	2-Chloropentane	20.24	70	1021852	13.1600	ppbV	S	97
100)	n-Heptane	20.49	71	724797	12.4607	ppbV	S	89
104)	cis-1,3-Dichloropropene	21.32	75	951367	12.2783	ppbV	S	96
106)	Methylcyclohexane	21.40	83	1411508	12.2210	ppbV	S	95
110)	trans-1,3-Dichloropropene	22.20	75	905556	13.2290	ppbV	S	96
111)	1,1,2-Trichloroethane	22.44	97	795315	12.2771	ppbV	S	98
112)	2,3,4-Trimethylpentane	22.66	43	1424349	11.0772	ppbV	S	91
114)	Toluene	22.87	91	2335833	12.9145	ppbV	S	98
117)	2-Methylheptane	23.31	43	1070362	11.5576	ppbV	S	96
119)	Dibromochloromethane	23.56	129	1310510	10.4449	ppbV	S	99
120)	3-Methylheptane	23.63	85	1071945	12.1887	ppbV	S	97
122)	1,2-Dibromoethane	23.95	107	1145607	11.5934	ppbV	S	99
125)	n-Octane	24.70	43	1150940	11.7244	ppbV	S	95
126)	Tetrachloroethene	24.80	164	978827	9.5887	ppbV	S	96
128)	Chlorobenzene	26.01	112	1697358	11.6774	ppbV	S	100
129)	Ethylbenzene	26.76	91	2711252	13.8969	ppbV	S	100
130)	m/p-Xylene	27.14	91	4253613m	26.8931	ppbV	S	
131)	Bromoform	27.15	173	1054200	10.4587	ppbV	S	98
134)	Styrene	27.80	104	1543622	13.5889	ppbV	S	98
135)	1,1,2,2-Tetrachloroethane	28.00	83	1432079	13.8299	ppbV	S	99
136)	o-Xylene	28.00	91	2139210	14.0925	ppbV	S	99
140)	n-Nonane	28.62	43	1090236	11.9915	ppbV	S	96
142)	Isopropylbenzene	29.23	105	3190760	12.5949	ppbV	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102616.D Vial: 1
Acq On : 27 Oct 2011 1:11 am Operator: KDK
Sample : 102 BLEND 1000,,,,0.01057;102 Inst : GCMS-R1
Misc : 1,1,1000,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:02 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
144) alpha-Pinene	30.02	93	2519535	12.9651 ppbV	S	99
147) n-Propylbenzene	30.33	91	3073103	12.9645 ppbV	S	99
148) m-Ethyltoluene	30.59	105	2522477	13.0395 ppbV	S	99
149) p-Ethyltoluene	30.68	105	2350453	12.8030 ppbV	S	99
150) 1,3,5-Trimethylbenzene	30.87	105	2493496	14.4052 ppbV	S	100
151) o-Ethyltoluene	31.26	105	2700475	12.9837 ppbV	S	99
152) beta-Pinene	31.54	93	1855322	9.3377 ppbV	S	97
153) 1,2,4-Trimethylbenzene	31.80	105	2404571	15.2228 ppbV	S	100
156) Benzyl chloride	32.07	91	1544085	17.2206 ppbV	S	98
157) m-Dichlorobenzene	32.07	146	1485166	13.2134 ppbV	S	96
158) n-Decane	32.25	57	1402458	13.0834 ppbV	S	97
159) p-Dichlorobenzene	32.25	146	1428921	13.3725 ppbV	S	97
161) 1,2,3-Trimethylbenzene	32.81	105	2349096	13.9431 ppbV	S	98
163) o-Dichlorobenzene	33.06	146	1455849	13.9433 ppbV	S	97
167) m-Diethylbenzene	33.69	105	1626459	13.2689 ppbV	S	99
168) p-Diethylbenzene	33.92	119	1625468	13.6109 ppbV	S	99
172) 1,2,4-Trichlorobenzene	37.67	180	679173	13.6466 ppbV	S	99
174) Hexachloro-1,3-butadiene	38.66	225	912490	9.6122 ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report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Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102616.D   Vial: 1
Acq On    : 27 Oct 2011   1:11 am                        Operator: KDK
Sample    : 102 BLEND 1000,,,,0.01057;102                Inst    : GCMS-R1
Misc      : 1,1,1000,1000                                Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:02 19111              Quant Results File: RA110918.RES

Method         : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title          :
Last Update    : Wed Oct 19 10:19:11 2011
Response via   : Initial Calibration
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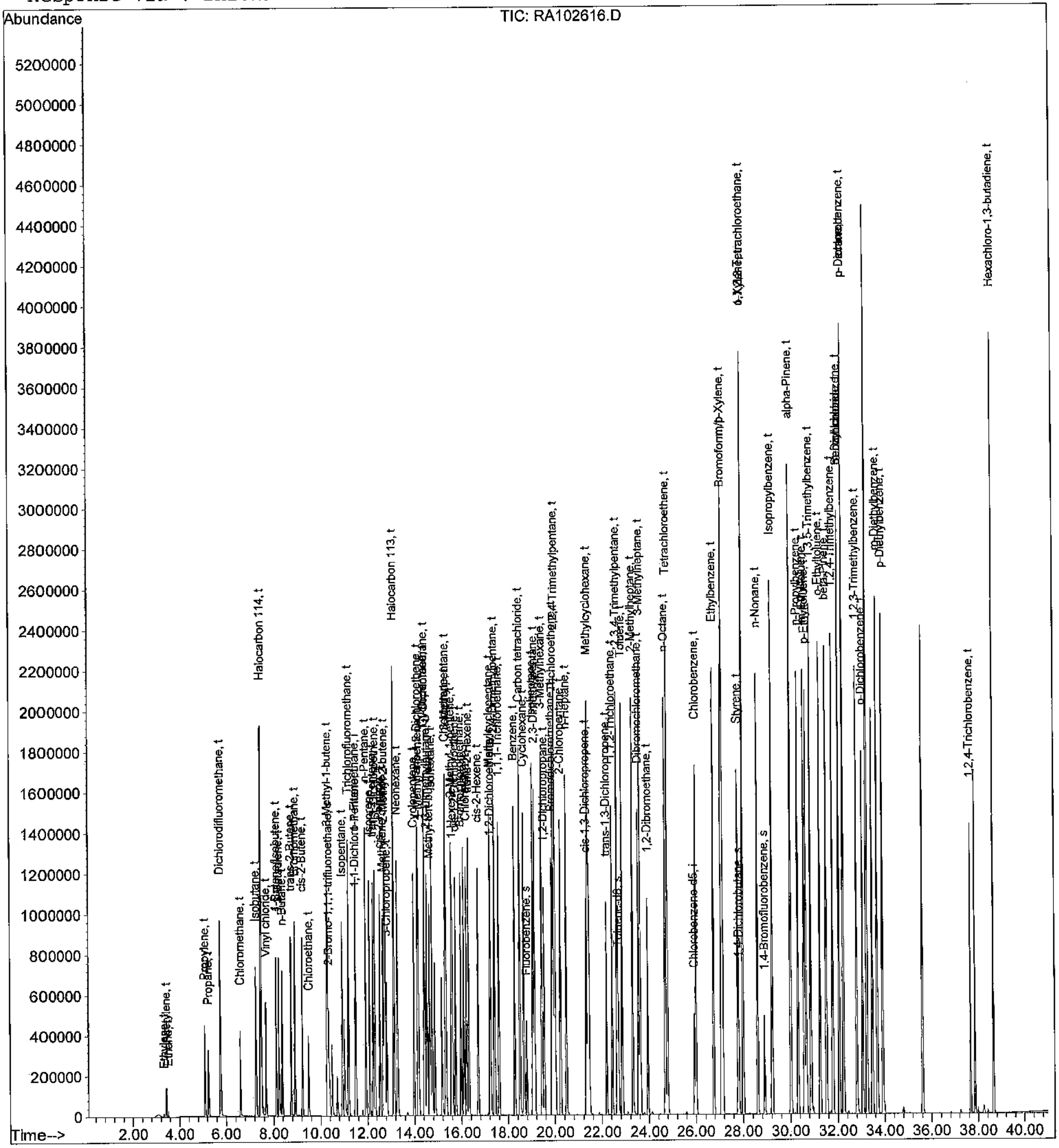


Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102619.D Vial: 1
Acq On : 27 Oct 2011 4:05 am Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,20 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:05 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	294151	2.0000 ppbV	0.03
82) Chlorobenzene-d5	25.94	117	449095	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	183726	2.0661 ppbV	0.03
Spiked Amount 2.000			Recovery	= 103.50%	
65) Fluorobenzene	18.81	96	603757	2.1563 ppbV	0.02
Spiked Amount 2.000			Recovery	= 108.00%	
113) Toluene-d8	22.71	98	549433	2.2320 ppbV	0.02
Spiked Amount 2.000			Recovery	= 111.50%	
115) 1,4-Dichlorobutane	27.83	90	46761	1.9357 ppbV	0.01
Spiked Amount 2.000			Recovery	= 97.00%	
141) 1,4-Bromofluorobenzene	28.91	95	224259	1.9809 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.33	69	12838	0.2934 ppbV	S	87
8) Chlorodifluoromethane	5.48	51	18858	0.2986 ppbV	S	96
14) Acetaldehyde	7.68	44	3098m	0.2242 ppbV	S	
19) Methanol	8.44	31	2090m	0.2673 ppbV	S	
21) Neopentane	8.83	57	45026	0.3084 ppbV	S	95
22) Dichlorofluoromethane	10.08	67	28163	0.2605 ppbV	S	95
26) Vinyl bromide	10.31	106	18644	0.2681 ppbV	S	99
28) Ethanol	10.52	45	3947m	0.2779 ppbV	S	
29) Acetonitrile	10.64	41	4964m	0.1686 ppbV	S	
30) Acrolein	10.84	56	2539m	0.1770 ppbV	S	
34) Acetone	11.19	43	10271m	0.2015 ppbV	S	
35) 2-Propanol	11.91	45	14784m	0.3312 ppbV	S	
36) Acrylonitrile	12.01	52	4119	0.1698 ppbV	S	88
38) Diethyl ether	12.20	74	3877	0.1749 ppbV	S	98
45) Carbon Disulfide	12.79	76	51818	0.2650 ppbV	S	97
52) 1-Propanol	14.27	59	1801	0.2970 ppbV	S	83
58) Vinyl acetate	14.91	43	17741	0.1938 ppbV	S	97
59) cis-4-Methyl-2-pentene	14.72	69	26954	0.2680 ppbV	S	94
60) trans-4-Methyl-2-pentene	14.84	69	30245	0.2623 ppbV	S	96
61) Butyraldehyde	15.00	72	1650	0.1879 ppbV	S	91
62) 2-Butanone	15.26	43	14902m	0.2158 ppbV	S	
70) 2-Ethyl-1-butene	16.09	69	16208	0.2540 ppbV	S	96
73) cis-3-Hexene	16.26	55	16048	0.2597 ppbV	S	91
75) 2-Methyl-2-pentene	16.44	41	15776	0.2422 ppbV	S	93
76) cis-3-Methyl-2-pentene	16.56	69	19455	0.2645 ppbV	S	98
83) Methylcyclopentene	18.25	67	39294	0.3121 ppbV	S	96
86) 1-Butanol	18.55	56	7767	0.2884 ppbV	S	92
90) Cyclohexene	19.38	67	25364	0.2876 ppbV	S	98
95) 1,4-Dioxane	20.04	88	7812	0.2572 ppbV	S	93
96) 1-Heptene	20.00	55	8857	0.2457 ppbV	S	98
99) trans-3-Heptene	20.42	41	12654	0.2409 ppbV	S	94
101) cis-3-Heptene	20.55	41	13330	0.2479 ppbV	S	94
102) trans-2-Heptene	20.70	55	14378	0.2605 ppbV	S	97
103) 2,4,4-Trimethyl-1-pentene	20.94	57	37467	0.2460 ppbV	S	92
105) Methylisobutylketone	21.48	43	15662	0.2180 ppbV	S	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102619.D Vial: 1
Acq On : 27 Oct 2011 4:05 am Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,20 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:05 19111 Quant Results File: RA110918.RES

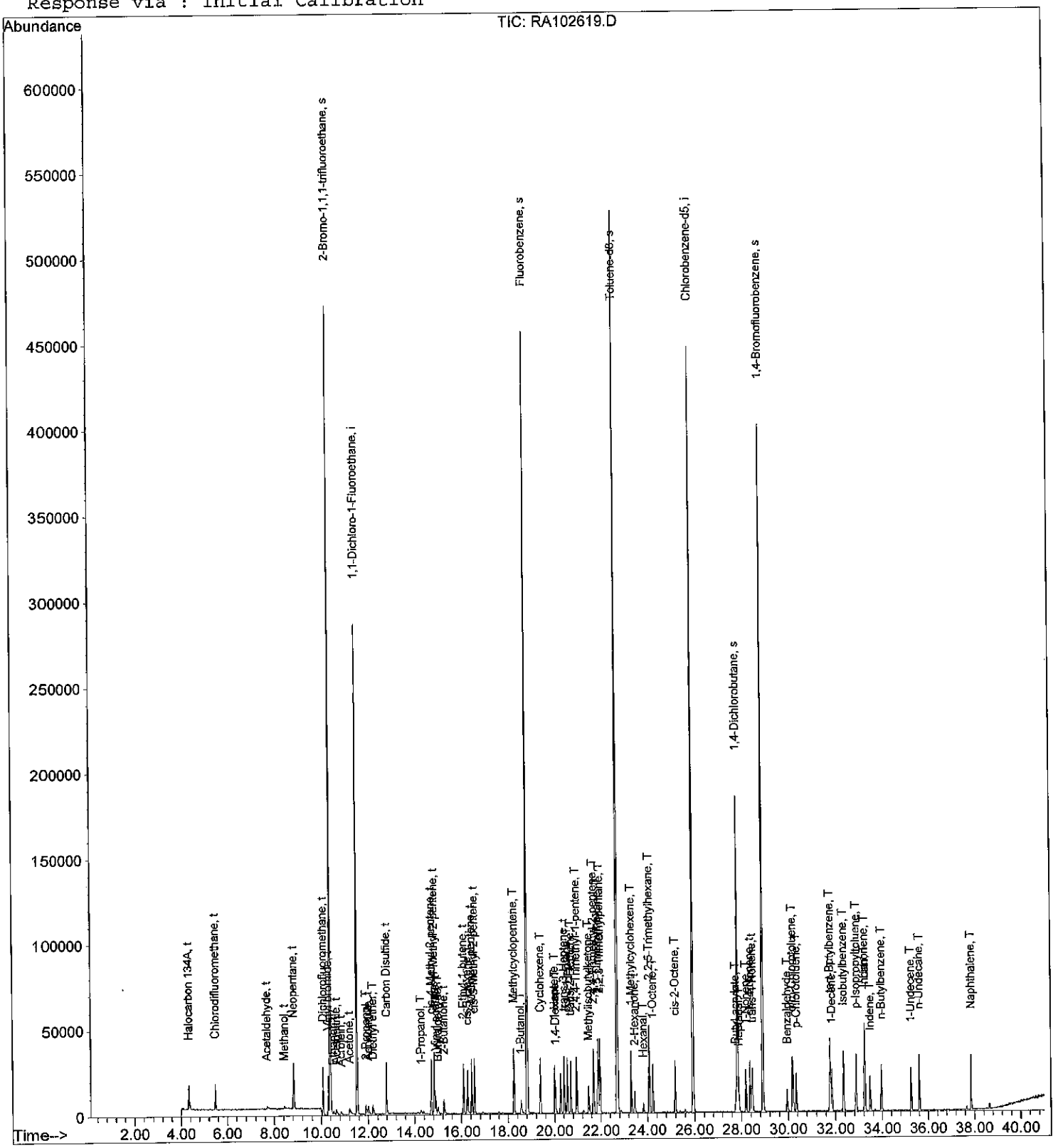
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
107) 2,4,4-Trimethyl-2-pentene	21.69	55	21594	0.2302	ppbV	S	93
108) 2,5-Dimethylhexane	21.87	57	31479	0.2750	ppbV	S	99
109) 2,2,3-Trimethylpentane	21.96	57	52786	0.2844	ppbV	S	98
116) 2-Hexanone	23.47	43	11756	0.1933	ppbV	S	97
118) 1-Methylcyclohexene	23.32	81	25554	0.2593	ppbV	S	93
121) Hexanal	23.83	44	2443	0.2004	ppbV	S	92
123) 2,2,5-Trimethylhexane	24.08	57	59486	0.2657	ppbV	S	95
124) 1-Octene	24.23	55	9771	0.2198	ppbV	S	97
127) cis-2-Octene	25.19	55	13450	0.2246	ppbV	S	89
132) Butyl acrylate	27.75	55	12559	0.1870	ppbV	S	91
133) Heptanal	27.89	70	3821	0.1920	ppbV	S	86
137) 1-Nonene	28.19	56	8580	0.1787	ppbV	S	95
138) cis-4-Nonene	28.38	55	18337	0.2202	ppbV	S	96
139) trans-4-Nonene	28.46	55	14044	0.1760	ppbV	S	92
143) Benzaldehyde	29.95	77	8330	0.2170	ppbV	S	99
145) o/m-Chlorotoluene	30.19	91	48267	0.4172	ppbV	S	94
146) p-Chlorotoluene	30.35	91	23766	0.2149	ppbV	S	91
154) tert-Butylbenzene	31.77	119	39150	0.2073	ppbV	S	97
155) 1-Decene	31.86	56	7142	0.1899	ppbV	S	92
160) Isobutylbenzene	32.34	91	36478	0.2031	ppbV	S	93
162) p-Isopropyltoluene	32.88	119	36639	0.1934	ppbV	S	96
164) Limonene	33.23	68	15138	0.2033	ppbV	S	93
165) Indan	33.25	117	24530	0.1750	ppbV	S	95
166) Indene	33.48	115	19546	0.1713	ppbV	S	98
169) n-Butylbenzene	33.96	91	27420	0.2082	ppbV	S	96
170) 1-Undecene	35.25	55	6506	0.1969	ppbV	S	96
171) n-Undecane	35.61	57	19745	0.2060	ppbV	S	99
173) Naphthalene	37.86	128	34567	0.3495	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102619.D Vial: 1
Acq On : 27 Oct 2011 4:05 am Operator: KDK
Sample : EXT BLEND 20,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,20 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:05 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102620.D Vial: 1
Acq On : 27 Oct 2011 5:01 am Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,50 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:07 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	298366	2.0000 ppbV	0.03
82) Chlorobenzene-d5	25.94	117	447461	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	188157	2.0861 ppbV	0.03
Spiked Amount 2.000			Recovery	= 104.50%	
65) Fluorobenzene	18.81	96	619319	2.1806 ppbV	0.02
Spiked Amount 2.000			Recovery	= 109.00%	
113) Toluene-d8	22.71	98	551852	2.2500 ppbV	0.02
Spiked Amount 2.000			Recovery	= 112.50%	
115) 1,4-Dichlorobutane	27.83	90	48575	2.0181 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	
141) 1,4-Bromofluorobenzene	28.91	95	226419	2.0073 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.33	69	23885	0.5382 ppbV	S	95
8) Chlorodifluoromethane	5.48	51	36391	0.5680 ppbV	S	99
14) Acetaldehyde	7.62	44	6395m	0.4563 ppbV	S	
19) Methanol	8.41	31	4066m	0.5126 ppbV	S	
21) Neopentane	8.83	57	94211	0.6361 ppbV	S	97
22) Dichlorofluoromethane	10.08	67	53133	0.4846 ppbV	S	99
26) Vinyl bromide	10.31	106	35780	0.5073 ppbV	S	95
28) Ethanol	10.47	45	7239m	0.5025 ppbV	S	
29) Acetonitrile	10.60	41	10184m	0.3410 ppbV	S	
30) Acrolein	10.82	56	5314	0.3652 ppbV	S	88
34) Acetone	11.15	43	20058m	0.3880 ppbV	S	
35) 2-Propanol	11.87	45	29734m	0.6567 ppbV	S	
36) Acrylonitrile	12.01	52	8417	0.3421 ppbV	S	98
38) Diethyl ether	12.19	74	8866	0.3943 ppbV	S	92
45) Carbon Disulfide	12.78	76	110706	0.5582 ppbV	S	99
52) 1-Propanol	14.25	59	4005m	0.6511 ppbV	S	
58) Vinyl acetate	14.90	43	33165	0.3572 ppbV	S	98
59) cis-4-Methyl-2-pentene	14.71	69	54503	0.5342 ppbV	S	96
60) trans-4-Methyl-2-pentene	14.84	69	60798	0.5197 ppbV	S	97
61) Butyraldehyde	14.99	72	3321	0.3729 ppbV	S	83
62) 2-Butanone	15.23	43	27937	0.3988 ppbV	S	97
70) 2-Ethyl-1-butene	16.10	69	31842	0.4920 ppbV	S	95
73) cis-3-Hexene	16.26	55	30805	0.4914 ppbV	S	95
75) 2-Methyl-2-pentene	16.44	41	31365	0.4748 ppbV	S	91
76) cis-3-Methyl-2-pentene	16.56	69	39811	0.5336 ppbV	S	98
83) Methylcyclopentene	18.25	67	75247	0.5999 ppbV	S	97
86) 1-Butanol	18.53	56	17594m	0.6557 ppbV	S	
90) Cyclohexene	19.38	67	49278	0.5609 ppbV	S	98
95) 1,4-Dioxane	20.03	88	17884	0.5909 ppbV	S	93
96) 1-Heptene	20.00	55	19264	0.5364 ppbV	S	92
99) trans-3-Heptene	20.41	41	27080	0.5175 ppbV	S	97
101) cis-3-Heptene	20.55	41	28054	0.5236 ppbV	S	95
102) trans-2-Heptene	20.70	55	28688	0.5217 ppbV	S	97
103) 2,4,4-Trimethyl-1-pentene	20.95	57	89399	0.5892 ppbV	S	98
105) Methylisobutylketone	21.47	43	31469	0.4397 ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102620.D Vial: 1
Acq On : 27 Oct 2011 5:01 am Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,50 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:07 19111 Quant Results File: RA110918.RES

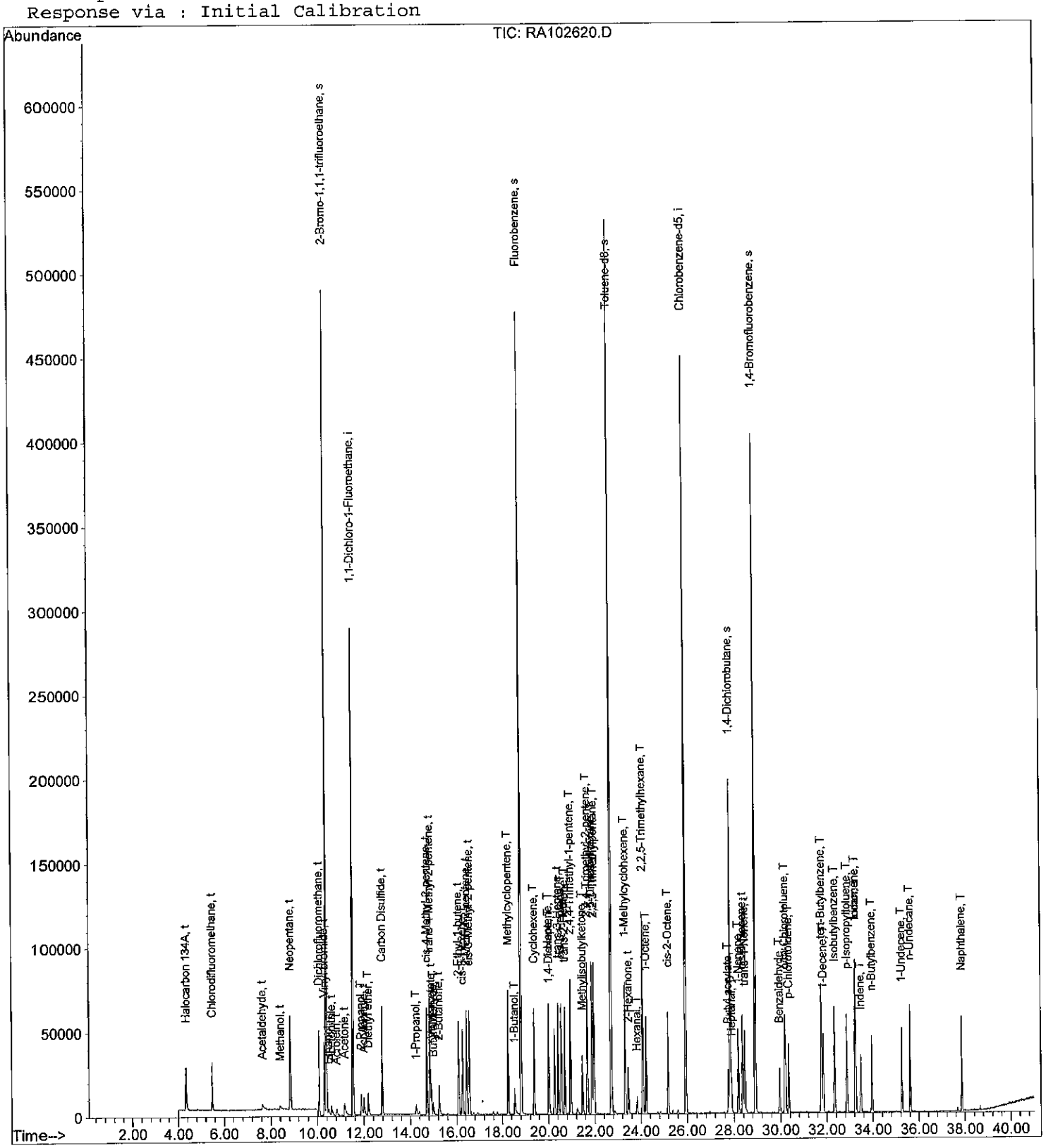
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.68	55	52947	0.5664	ppbV	S	89
108) 2,5-Dimethylhexane	21.87	57	65045	0.5704	ppbV	S	96
109) 2,2,3-Trimethylpentane	21.97	57	110469	0.5973	ppbV	S	97
116) 2-Hexanone	23.46	43	25052	0.4135	ppbV	S	99
118) 1-Methylcyclohexene	23.32	81	54369	0.5538	ppbV	S	95
121) Hexanal	23.82	44	4692	0.3863	ppbV	S	83
123) 2,2,5-Trimethylhexane	24.08	57	136478	0.6119	ppbV	S	98
124) 1-Octene	24.24	55	19000	0.4289	ppbV	S	95
127) cis-2-Octene	25.19	55	26283	0.4406	ppbV	S	99
132) Butyl acrylate	27.76	55	26861	0.4015	ppbV	S	93
133) Heptanal	27.90	70	7255	0.3660	ppbV	S	82
137) 1-Nonene	28.19	56	17601	0.3679	ppbV	S	93
138) cis-4-Nonene	28.37	55	35396	0.4266	ppbV	S	94
139) trans-4-Nonene	28.46	55	27949	0.3515	ppbV	S	98
143) Benzaldehyde	29.95	77	16373	0.4280	ppbV	S	95
145) o/m-Chlorotoluene	30.19	91	87956	0.7630	ppbV	S	94
146) p-Chlorotoluene	30.35	91	42348	0.3844	ppbV	S	94
154) tert-Butylbenzene	31.77	119	70863	0.3765	ppbV	S	97
155) 1-Decene	31.85	56	13183	0.3519	ppbV	S	96
160) Isobutylbenzene	32.34	91	64920	0.3628	ppbV	S	94
162) p-Isopropyltoluene	32.88	119	62390	0.3306	ppbV	S	94
164) Limonene	33.23	68	26277	0.3542	ppbV	S	94
165) Indan	33.25	117	42765	0.3063	ppbV	S	98
166) Indene	33.48	115	32732	0.2878	ppbV	S	99
169) n-Butylbenzene	33.96	91	46654	0.3555	ppbV	S	96
170) 1-Undecene	35.25	55	13089	0.3975	ppbV	S	96
171) n-Undecane	35.61	57	38538	0.4036	ppbV	S	97
173) Naphthalene	37.86	128	62610	0.6353	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102620.D Vial: 1
Acq On : 27 Oct 2011 5:01 am Operator: KDK
Sample : EXT BLEND 50,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,50 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:07 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102621.D Vial: 1
Acq On : 27 Oct 2011 5:58 am Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:09 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	302112	2.0000 ppbV	0.03
82) Chlorobenzene-d5	25.94	117	464609	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	190445	2.0852 ppbV	0.03
Spiked Amount 2.000			Recovery	= 104.50%	
65) Fluorobenzene	18.81	96	630812	2.1935 ppbV	0.02
Spiked Amount 2.000			Recovery	= 109.50%	
113) Toluene-d8	22.71	98	569603	2.2366 ppbV	0.02
Spiked Amount 2.000			Recovery	= 112.00%	
115) 1,4-Dichlorobutane	27.83	90	49919	1.9974 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.00%	
141) 1,4-Bromofluorobenzene	28.91	95	232267	1.9832 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.33	69	48815	1.0863 ppbV	S	92
8) Chlorodifluoromethane	5.47	51	74248	1.1446 ppbV	S	98
14) Acetaldehyde	7.57	44	14570m	1.0268 ppbV	S	
19) Methanol	8.35	31	8346m	1.0392 ppbV	S	
21) Neopentane	8.83	57	177500	1.1836 ppbV	S	95
22) Dichlorofluoromethane	10.08	67	111283	1.0024 ppbV	S	99
26) Vinyl bromide	10.30	106	72423	1.0141 ppbV	S	99
28) Ethanol	10.45	45	15473m	1.0609 ppbV	S	
29) Acetonitrile	10.57	41	23664	0.7826 ppbV	S	98
30) Acrolein	10.79	56	12836	0.8712 ppbV	S	85
34) Acetone	11.12	43	44087m	0.8423 ppbV	S	
35) 2-Propanol	11.84	45	61733m	1.3465 ppbV	S	
36) Acrylonitrile	11.98	52	20928	0.8399 ppbV	S	97
38) Diethyl ether	12.17	74	21167	0.9297 ppbV	S	96
45) Carbon Disulfide	12.78	76	215645	1.0738 ppbV	S	97
52) 1-Propanol	14.23	59	8208	1.3179 ppbV	S	95
58) Vinyl acetate	14.90	43	80637	0.8577 ppbV	S	99
59) cis-4-Methyl-2-pentene	14.71	69	115299	1.1162 ppbV	S	96
60) trans-4-Methyl-2-pentene	14.84	69	128274	1.0830 ppbV	S	97
61) Butyraldehyde	14.98	72	8110	0.8995 ppbV	S	94
62) 2-Butanone	15.22	43	66093	0.9317 ppbV	S	94
70) 2-Ethyl-1-butene	16.09	69	69440	1.0596 ppbV	S	97
73) cis-3-Hexene	16.26	55	68168	1.0739 ppbV	S	98
75) 2-Methyl-2-pentene	16.44	41	66259	0.9906 ppbV	S	86
76) cis-3-Methyl-2-pentene	16.56	69	83802	1.1093 ppbV	S	98
83) Methylcyclopentene	18.25	67	162832	1.2503 ppbV	S	99
86) 1-Butanol	18.53	56	36166	1.2981 ppbV	S	95
90) Cyclohexene	19.38	67	103516	1.1347 ppbV	S	96
95) 1,4-Dioxane	20.01	88	37587	1.1961 ppbV	S	82
96) 1-Heptene	20.00	55	40956	1.0982 ppbV	S	95
99) trans-3-Heptene	20.41	41	60348	1.1106 ppbV	S	95
101) cis-3-Heptene	20.55	41	61057	1.0974 ppbV	S	97
102) trans-2-Heptene	20.70	55	64521	1.1301 ppbV	S	95
103) 2,4,4-Trimethyl-1-pentene	20.95	57	186799	1.1857 ppbV	S	98
105) Methylisobutylketone	21.46	43	74292	0.9996 ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102621.D Vial: 1
Acq On : 27 Oct 2011 5:58 am Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:09 19111 Quant Results File: RA110918.RES

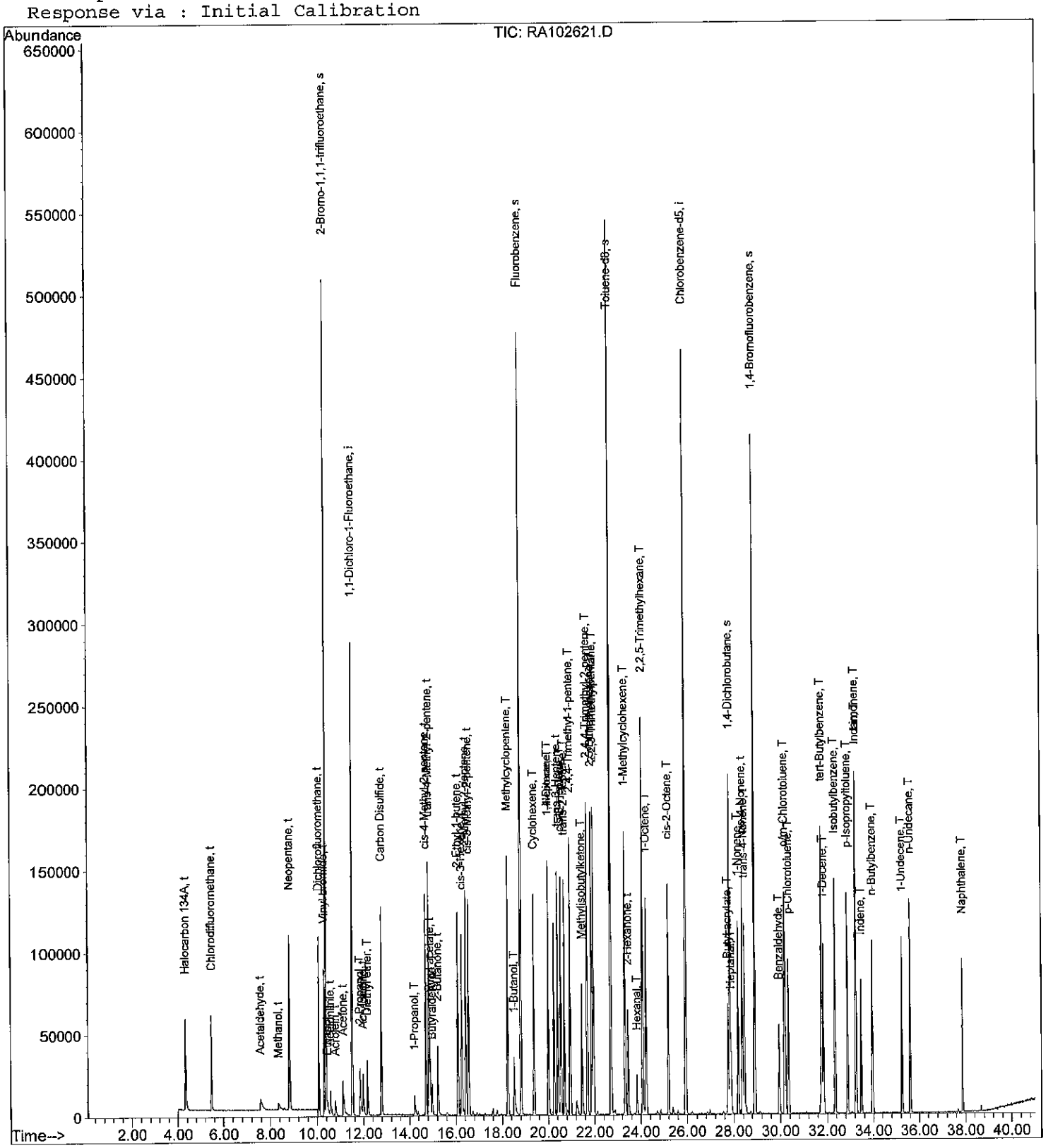
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
107) 2,4,4-Trimethyl-2-pentene	21.69	55	110533	1.1388	ppbV	S	92
108) 2,5-Dimethylhexane	21.87	57	138096	1.1663	ppbV	S	97
109) 2,2,3-Trimethylpentane	21.96	57	223689	1.1648	ppbV	S	98
116) 2-Hexanone	23.45	43	58698	0.9331	ppbV	S	97
118) 1-Methylcyclohexene	23.32	81	119253	1.1698	ppbV	S	98
121) Hexanal	23.82	44	10454	0.8289	ppbV	S	88
123) 2,2,5-Trimethylhexane	24.08	57	281341	1.2148	ppbV	S	99
124) 1-Octene	24.24	55	44365	0.9646	ppbV	S	98
127) cis-2-Octene	25.19	55	61879	0.9990	ppbV	S	96
132) Butyl acrylate	27.76	55	65949	0.9494	ppbV	S	97
133) Heptanal	27.88	70	17068	0.8292	ppbV	S	94
137) 1-Nonene	28.19	56	42538	0.8562	ppbV	S	95
138) cis-4-Nonene	28.37	55	85259	0.9896	ppbV	S	92
139) trans-4-Nonene	28.46	55	67537	0.8180	ppbV	S	96
143) Benzaldehyde	29.95	77	32410	0.8159	ppbV	S	94
145) o/m-Chlorotoluene	30.19	91	206400	1.7244	ppbV	S	93
146) p-Chlorotoluene	30.35	91	97974	0.8565	ppbV	S	94
154) tert-Butylbenzene	31.77	119	161257	0.8252	ppbV	S	97
155) 1-Decene	31.85	56	31011	0.7972	ppbV	S	92
160) Isobutylbenzene	32.34	91	148805	0.8009	ppbV	S	97
162) p-Isopropyltoluene	32.88	119	144620	0.7380	ppbV	S	99
164) Limonene	33.23	68	61589	0.7995	ppbV	S	97
165) Indan	33.25	117	98008	0.6760	ppbV	S	97
166) Indene	33.48	115	78022	0.6608	ppbV	S	100
169) n-Butylbenzene	33.96	91	106509	0.7816	ppbV	S	95
170) 1-Undecene	35.25	55	27452	0.8030	ppbV	S	96
171) n-Undecane	35.61	57	79712	0.8039	ppbV	S	97
173) Naphthalene	37.86	128	99135	0.9687	ppbV	S	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102621.D Vial: 1
Acq On : 27 Oct 2011 5:58 am Operator: KDK
Sample : EXT BLEND 100,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:09 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102622.D Vial: 1
Acq On : 27 Oct 2011 6:57 am Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:11 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.50	81	296986	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	449877	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.37	83	185970	2.0714 ppbV	0.02
Spiked Amount 2.000			Recovery	= 103.50%	
65) Fluorobenzene	18.81	96	616550	2.1809 ppbV	0.02
Spiked Amount 2.000			Recovery	= 109.00%	
113) Toluene-d8	22.71	98	552901	2.2422 ppbV	0.01
Spiked Amount 2.000			Recovery	= 112.00%	
115) 1,4-Dichlorobutane	27.83	90	49939	2.0637 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
141) 1,4-Bromofluorobenzene	28.91	95	227924	2.0098 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.31	69	124311	2.8142 ppbV	S	93
8) Chlorodifluoromethane	5.46	51	184279	2.8898 ppbV	S	97
14) Acetaldehyde	7.49	44	44644m	3.2006 ppbV	S	
19) Methanol	8.30	31	23848m	3.0207 ppbV	S	
21) Neopentane	8.82	57	421279	2.8576 ppbV	S	97
22) Dichlorofluoromethane	10.07	67	286728	2.6273 ppbV	S	98
26) Vinyl bromide	10.30	106	181511	2.5855 ppbV	S	97
28) Ethanol	10.41	45	41019m	2.8609 ppbV	S	
29) Acetonitrile	10.53	41	77553	2.6091 ppbV	S	99
30) Acrolein	10.75	56	41540	2.8682 ppbV	S	96
34) Acetone	11.07	43	130774	2.5415 ppbV	S	96
35) 2-Propanol	11.82	45	156108	3.4638 ppbV	S	98
36) Acrylonitrile	11.96	52	70362	2.8727 ppbV	S	96
38) Diethyl ether	12.16	74	64113	2.8646 ppbV	S	98
45) Carbon Disulfide	12.78	76	516666	2.6170 ppbV	S	100
52) 1-Propanol	14.21	59	22075	3.6055 ppbV	S	98
58) Vinyl acetate	14.89	43	250467	2.7101 ppbV	S	98
59) cis-4-Methyl-2-pentene	14.71	69	291759	2.8732 ppbV	S	96
60) trans-4-Methyl-2-pentene	14.84	69	325206	2.7930 ppbV	S	96
61) Butyraldehyde	14.97	72	24941	2.8139 ppbV	S	95
62) 2-Butanone	15.20	43	188938	2.7095 ppbV	S	100
70) 2-Ethyl-1-butene	16.08	69	169972	2.6383 ppbV	S	96
73) cis-3-Hexene	16.26	55	163609	2.6219 ppbV	S	96
75) 2-Methyl-2-pentene	16.43	41	160323	2.4382 ppbV	S	94
76) cis-3-Methyl-2-pentene	16.55	69	209277	2.8182 ppbV	S	95
83) Methylcyclopentene	18.24	67	391728	3.1064 ppbV	S	97
86) 1-Butanol	18.51	56	96780	3.5876 ppbV	S	97
90) Cyclohexene	19.38	67	258282	2.9239 ppbV	S	98
95) 1,4-Dioxane	20.00	88	100905	3.3162 ppbV	S	84
96) 1-Heptene	20.00	55	100096	2.7720 ppbV	S	95
99) trans-3-Heptene	20.41	41	142268	2.7040 ppbV	S	97
101) cis-3-Heptene	20.55	41	146593	2.7211 ppbV	S	94
102) trans-2-Heptene	20.70	55	150663	2.7254 ppbV	S	96
103) 2,4,4-Trimethyl-1-pentene	20.94	57	484591	3.1768 ppbV	S	96
105) Methylisobutylketone	21.45	43	211350	2.9370 ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102622.D Vial: 1
Acq On : 27 Oct 2011 6:57 am Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:11 19111 Quant Results File: RA110918.RES

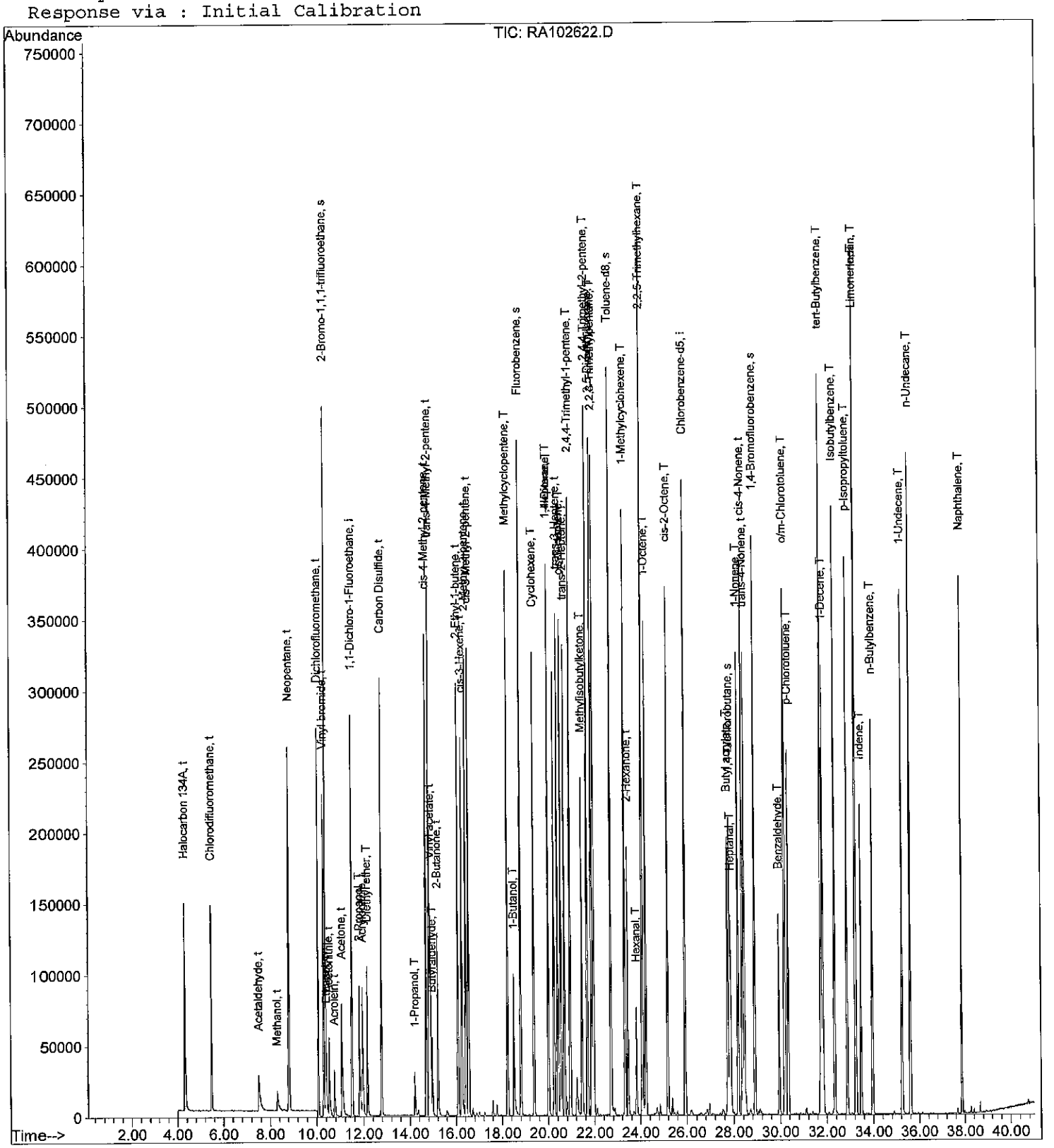
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
107) 2,4,4-Trimethyl-2-pentene	21.68	55	288820	3.0731	ppbV	S	96
108) 2,5-Dimethylhexane	21.87	57	349269	3.0464	ppbV	S	99
109) 2,2,3-Trimethylpentane	21.96	57	567524	3.0521	ppbV	S	98
116) 2-Hexanone	23.44	43	164747	2.7046	ppbV	S	96
118) 1-Methylcyclohexene	23.32	81	300732	3.0466	ppbV	S	97
121) Hexanal	23.82	44	30158	2.4695	ppbV	S	93
123) 2,2,5-Trimethylhexane	24.08	57	741898	3.3083	ppbV	S	99
124) 1-Octene	24.23	55	115540	2.5942	ppbV	S	95
127) cis-2-Octene	25.19	55	162371	2.7071	ppbV	S	97
132) Butyl acrylate	27.75	55	188556	2.8032	ppbV	S	99
133) Heptanal	27.88	70	52206	2.6193	ppbV	S	97
137) 1-Nonene	28.19	56	119027	2.4743	ppbV	S	94
138) cis-4-Nonene	28.37	55	234550	2.8117	ppbV	S	96
139) trans-4-Nonene	28.46	55	176584	2.2087	ppbV	S	98
143) Benzaldehyde	29.95	77	82733	2.1510	ppbV	S	99
145) o/m-Chlorotoluene	30.19	91	558364	4.8177	ppbV	S	94
146) p-Chlorotoluene	30.35	91	261397	2.3600	ppbV	S	95
154) tert-Butylbenzene	31.77	119	490954	2.5946	ppbV	S	98
155) 1-Decene	31.85	56	91058	2.4175	ppbV	S	95
160) Isobutylbenzene	32.34	91	446558	2.4823	ppbV	S	96
162) p-Isopropyltoluene	32.88	119	422455	2.2264	ppbV	S	98
164) Limonene	33.23	68	181264	2.4299	ppbV	S	98
165) Indan	33.25	117	278615	1.9846	ppbV	S	98
166) Indene	33.48	115	214259	1.8740	ppbV	S	98
169) n-Butylbenzene	33.96	91	282258	2.1390	ppbV	S	96
170) 1-Undecene	35.25	55	95389	2.8816	ppbV	S	96
171) n-Undecane	35.61	57	292813	3.0498	ppbV	S	97
173) Naphthalene	37.86	128	407654	4.1140	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102622.D Vial: 1
Acq On : 27 Oct 2011 6:57 am Operator: KDK
Sample : EXT BLEND 250,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,250 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:11 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102623.D Vial: 1
Acq On : 27 Oct 2011 7:56 am Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:14 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.49	81	296327	2.0000 ppbV	0.01
82) Chlorobenzene-d5	25.94	117	481470	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.36	83	188991	2.1097 ppbV	0.01
Spiked Amount 2.000			Recovery	= 105.50%	
65) Fluorobenzene	18.80	96	631100	2.2374 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
113) Toluene-d8	22.71	98	578691	2.1928 ppbV	0.01
Spiked Amount 2.000			Recovery	= 109.50%	
115) 1,4-Dichlorobutane	27.83	90	51844	2.0018 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
141) 1,4-Bromofluorobenzene	28.91	95	240989	1.9856 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.31	69	252171	5.7214 ppbV	S	93
8) Chlorodifluoromethane	5.46	51	368714	5.7948 ppbV	S	98
14) Acetaldehyde	7.45	44	92047m	6.6137 ppbV	S	
19) Methanol	8.27	31	49548m	6.2900 ppbV	S	
21) Neopentane	8.81	57	835298	5.6785 ppbV	S	95
22) Dichlorofluoromethane	10.06	67	637328	5.8529 ppbV	S	100
26) Vinyl bromide	10.28	106	371559	5.3043 ppbV	S	97
28) Ethanol	10.40	45	86997m	6.0811 ppbV	S	
29) Acetonitrile	10.51	41	172034	5.8006 ppbV	S	99
30) Acrolein	10.73	56	92573	6.4061 ppbV	S	97
34) Acetone	11.04	43	286741	5.5850 ppbV	S	98
35) 2-Propanol	11.81	45	336880	7.4914 ppbV	S	96
36) Acrylonitrile	11.94	52	153221	6.2696 ppbV	S	97
38) Diethyl ether	12.14	74	133014	5.9564 ppbV	S	96
45) Carbon Disulfide	12.77	76	1047616	5.3182 ppbV	S	99
52) 1-Propanol	14.20	59	49918	8.1712 ppbV	S	99
58) Vinyl acetate	14.88	43	590694	6.4057 ppbV	S	99
59) cis-4-Methyl-2-pentene	14.70	69	607626	5.9970 ppbV	S	96
60) trans-4-Methyl-2-pentene	14.83	69	679027	5.8448 ppbV	S	96
61) Butyraldehyde	14.95	72	53888	6.0932 ppbV	S	95
62) 2-Butanone	15.18	43	422799	6.0767 ppbV	S	97
70) 2-Ethyl-1-butene	16.08	69	369790	5.7527 ppbV	S	97
73) cis-3-Hexene	16.25	55	364320	5.8514 ppbV	S	95
75) 2-Methyl-2-pentene	16.43	41	345137	5.2605 ppbV	S	91
76) cis-3-Methyl-2-pentene	16.55	69	434469	5.8637 ppbV	S	97
83) Methylcyclopentene	18.24	67	863191	6.3959 ppbV	S	97
86) 1-Butanol	18.51	56	187050	6.4789 ppbV	S	96
90) Cyclohexene	19.38	67	549264	5.8100 ppbV	S	98
95) 1,4-Dioxane	19.99	88	218700	6.7159 ppbV	S	83
96) 1-Heptene	20.00	55	226638	5.8645 ppbV	S	94
99) trans-3-Heptene	20.41	41	326109	5.7915 ppbV	S	93
101) cis-3-Heptene	20.55	41	326578	5.6643 ppbV	S	92
102) trans-2-Heptene	20.70	55	346059	5.8492 ppbV	S	97
103) 2,4,4-Trimethyl-1-pentene	20.94	57	964306	5.9068 ppbV	S	96
105) Methylisobutylketone	21.45	43	479003	6.2196 ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102623.D Vial: 1
Acq On : 27 Oct 2011 7:56 am Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:14 19111 Quant Results File: RA110918.RES

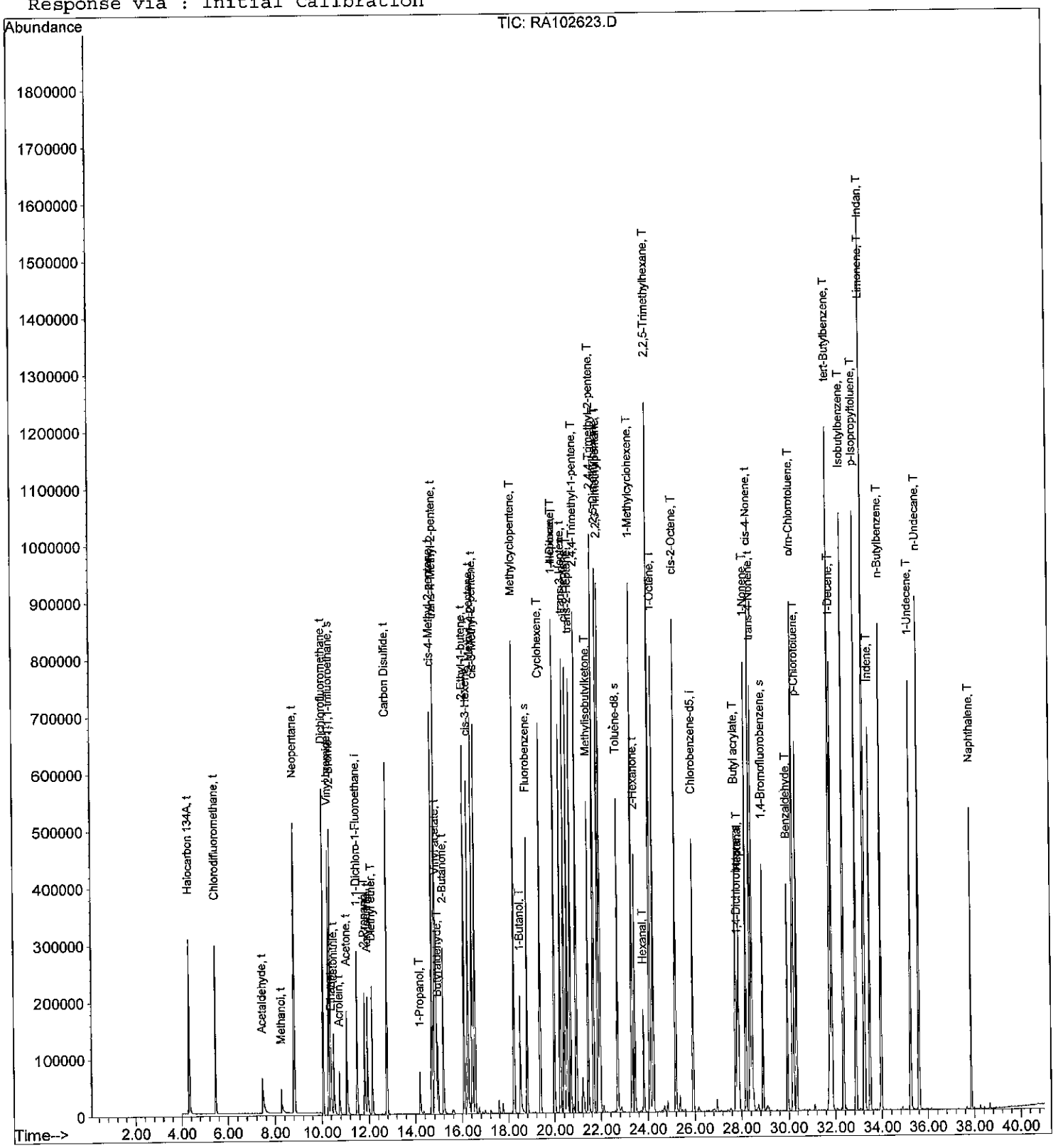
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.68	55	579415	5.7605 ppbV	S	96
108) 2,5-Dimethylhexane	21.87	57	715220	5.8290 ppbV	S	97
109) 2,2,3-Trimethylpentane	21.96	57	1139783	5.7275 ppbV	S	98
116) 2-Hexanone	23.44	43	396185	6.0773 ppbV	S	95
118) 1-Methylcyclohexene	23.31	81	655136	6.2013 ppbV	S	97
121) Hexanal	23.81	44	70807	5.4176 ppbV	S	97
123) 2,2,5-Trimethylhexane	24.08	57	1488526	6.2021 ppbV	S	98
124) 1-Octene	24.23	55	265522	5.5706 ppbV	S	97
127) cis-2-Octene	25.19	55	381925	5.9498 ppbV	S	98
132) Butyl acrylate	27.75	55	483401	6.7150 ppbV	S	98
133) Heptanal	27.88	70	128192	6.0096 ppbV	S	97
137) 1-Nonene	28.19	56	283077	5.4985 ppbV	S	97
138) cis-4-Nonene	28.37	55	558441	6.2551 ppbV	S	96
139) trans-4-Nonene	28.46	55	439174	5.1326 ppbV	S	97
143) Benzaldehyde	29.95	77	229208	5.5682 ppbV	S	99
145) o/m-Chlorotoluene	30.19	91	1365104	11.0057 ppbV	S	95
146) p-Chlorotoluene	30.35	91	658808	5.5577 ppbV	S	95
154) tert-Butylbenzene	31.77	119	1128951	5.5748 ppbV	S	98
155) 1-Decene	31.85	56	230613	5.7207 ppbV	S	96
160) Isobutylbenzene	32.34	91	1103015	5.7291 ppbV	S	97
162) p-Isopropyltoluene	32.88	119	1151085	5.6683 ppbV	S	98
164) Limonene	33.23	68	455770	5.7089 ppbV	S	97
165) Indan	33.25	117	752174	5.0063 ppbV	S	99
166) Indene	33.48	115	653671	5.3422 ppbV	S	99
169) n-Butylbenzene	33.96	91	849277	6.0137 ppbV	S	97
170) 1-Undecene	35.25	55	197863	5.5851 ppbV	S	96
171) n-Undecane	35.61	57	564463	5.4935 ppbV	S	98
173) Naphthalene	37.86	128	567637	5.3527 ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102623.D Vial: 1
Acq On : 27 Oct 2011 7:56 am Operator: KDK
Sample : EXT BLEND 500,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:14 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102624.D Vial: 1
Acq On : 27 Oct 2011 8:59 am Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,750 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:16 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.49	81	268145	2.0000 ppbV	0.00
82) Chlorobenzene-d5	25.93	117	382558	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.36	83	166636	2.0557 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
65) Fluorobenzene	18.80	96	501928	1.9665 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
113) Toluene-d8	22.71	98	443191	2.1135 ppbV	0.01
Spiked Amount 2.000			Recovery	= 105.50%	
115) 1,4-Dichlorobutane	27.83	90	44766	2.1754 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.00%	
141) 1,4-Bromofluorobenzene	28.91	95	214624	2.2256 ppbV	0.00
Spiked Amount 2.000			Recovery	= 111.50%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.30	69	368845	9.2481 ppbV	S	93
8) Chlorodifluoromethane	5.46	51	534004	9.2747 ppbV	S	98
14) Acetaldehyde	7.43	44	134960m	10.7161 ppbV	S	
19) Methanol	8.26	31	74480m	10.4487 ppbV	S	
21) Neopentane	8.81	57	1191115	8.9485 ppbV	S	96
22) Dichlorofluoromethane	10.05	67	947627	9.6172 ppbV	S	99
26) Vinyl bromide	10.28	106	540785	8.5315 ppbV	S	97
28) Ethanol	10.40	45	127392	9.8406 ppbV	S	97
29) Acetonitrile	10.50	41	242022	9.0181 ppbV	S	99
30) Acrolein	10.71	56	128927	9.8594 ppbV	S	98
34) Acetone	11.02	43	414140	8.9141 ppbV	S	98
35) 2-Propanol	11.80	45	535979	13.1716 ppbV	S	97
36) Acrylonitrile	11.93	52	212452	9.6069 ppbV	S	99
38) Diethyl ether	12.13	74	193040	9.5529 ppbV	S	98
45) Carbon Disulfide	12.76	76	1494004	8.3814 ppbV	S	99
52) 1-Propanol	14.20	59	75753	13.7034 ppbV	S	94
58) Vinyl acetate	14.87	43	704011m	8.4369 ppbV	S	
59) cis-4-Methyl-2-pentene	14.69	69	874332	9.5362 ppbV	S	96
60) trans-4-Methyl-2-pentene	14.82	69	965588	9.1849 ppbV	S	97
61) Butyraldehyde	14.94	72	77615	9.6984 ppbV	S	95
62) 2-Butanone	15.17	43	609726	9.6843 ppbV	S	97
70) 2-Ethyl-1-butene	16.07	69	520826	8.9539 ppbV	S	97
73) cis-3-Hexene	16.25	55	499386	8.8637 ppbV	S	95
75) 2-Methyl-2-pentene	16.42	41	481803	8.1154 ppbV	S	91
76) cis-3-Methyl-2-pentene	16.54	69	621223	9.2653 ppbV	S	97
83) Methylcyclopentene	18.23	67	1190054	11.0977 ppbV	S	97
86) 1-Butanol	18.51	56	312134	13.6068 ppbV	S	95
90) Cyclohexene	19.37	67	783177	10.4262 ppbV	S	97
95) 1,4-Dioxane	19.99	88	331293	12.8038 ppbV	S	87
96) 1-Heptene	20.00	55	312451	10.1754 ppbV	S	94
99) trans-3-Heptene	20.41	41	449231	10.0408 ppbV	S	94
101) cis-3-Heptene	20.55	41	454117	9.9129 ppbV	S	92
102) trans-2-Heptene	20.69	55	472173	10.0443 ppbV	S	98
103) 2,4,4-Trimethyl-1-pentene	20.94	57	1406232	10.8409 ppbV	S	96
105) Methylisobutylketone	21.44	43	744110	12.1600 ppbV	S	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102624.D Vial: 1
Acq On : 27 Oct 2011 8:59 am Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,750 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:16 19111 Quant Results File: RA110918.RES

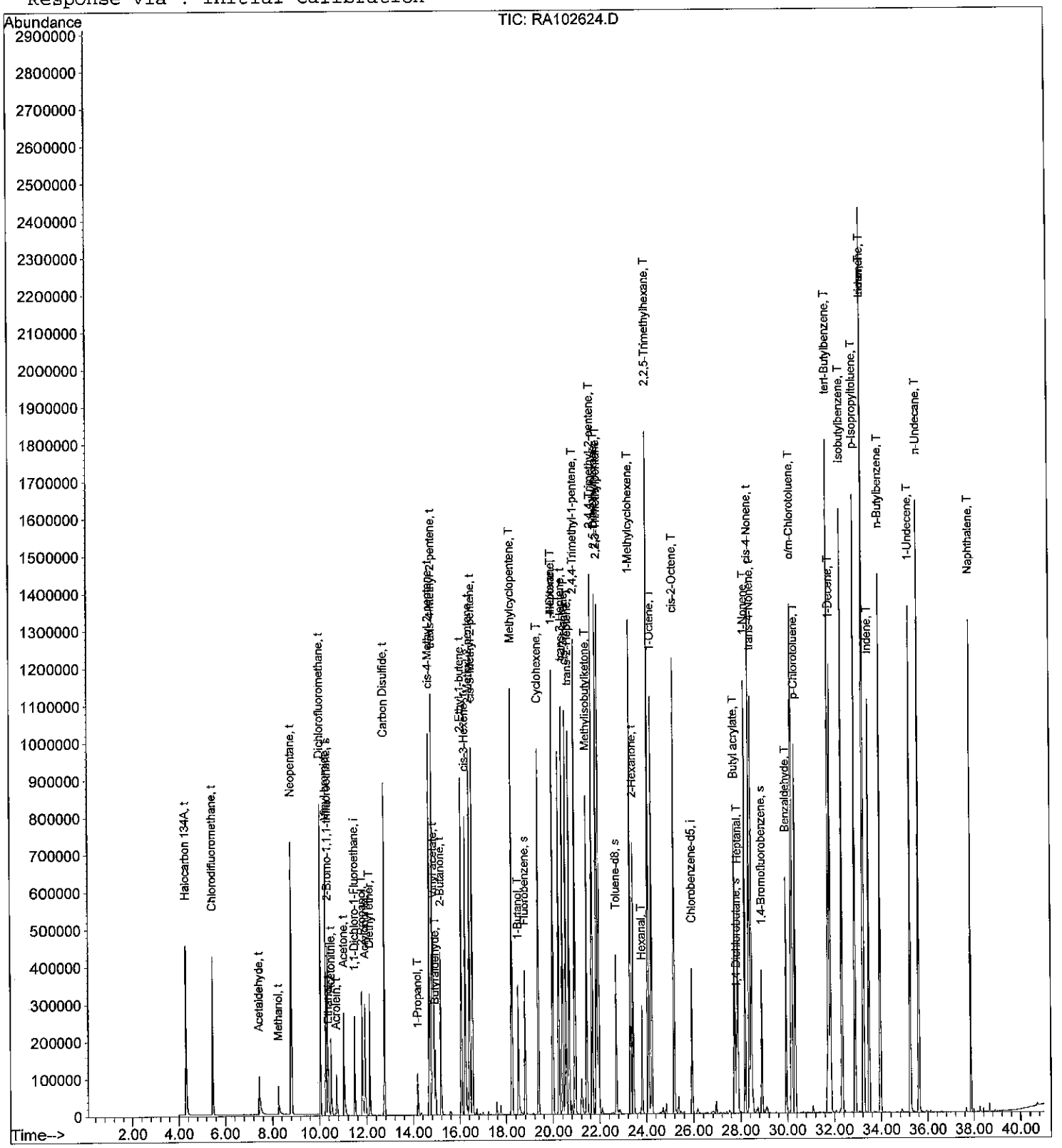
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
107) 2,4,4-Trimethyl-2-pentene	21.68	55	842184	10.5377 ppbV	S	97
108) 2,5-Dimethylhexane	21.87	57	1046839	10.7375 ppbV	S	96
109) 2,2,3-Trimethylpentane	21.96	57	1645927	10.4094 ppbV	S	98
116) 2-Hexanone	23.43	43	633475	12.2297 ppbV	S	95
118) 1-Methylcyclohexene	23.31	81	939347	11.1906 ppbV	S	98
121) Hexanal	23.81	44	113534	10.9328 ppbV	S	94
123) 2,2,5-Trimethylhexane	24.08	57	2169331	11.3757 ppbV	S	98
124) 1-Octene	24.23	55	375739	9.9211 ppbV	S	97
127) cis-2-Octene	25.19	55	541206	10.6110 ppbV	S	97
132) Butyl acrylate	27.75	55	768004	13.4268 ppbV	S	99
133) Heptanal	27.88	70	208967	12.3291 ppbV	S	96
137) 1-Nonene	28.19	56	419294	10.2501 ppbV	S	96
138) cis-4-Nonene	28.37	55	822318	11.5922 ppbV	S	96
139) trans-4-Nonene	28.46	55	654741	9.6304 ppbV	S	98
143) Benzaldehyde	29.95	77	365522	11.1756 ppbV	S	98
145) o/m-Chlorotoluene	30.19	91	2077770	21.0824 ppbV	S	96
146) p-Chlorotoluene	30.35	91	1006899	10.6903 ppbV	S	95
154) tert-Butylbenzene	31.77	119	1690634	10.5069 ppbV	S	98
155) 1-Decene	31.85	56	355296	11.0925 ppbV	S	94
160) Isobutylbenzene	32.34	91	1684045	11.0085 ppbV	S	98
162) p-Isopropyltoluene	32.88	119	1826981	11.3228 ppbV	S	98
164) Limonene	33.24	68	702885	11.0807 ppbV	S	98
165) Indan	33.25	117	1168488	9.7881 ppbV	S	99
166) Indene	33.48	115	1071348	11.0195 ppbV	S	99
169) n-Butylbenzene	33.96	91	1451578	12.9362 ppbV	S	98
170) 1-Undecene	35.25	55	357156	12.6880 ppbV	S	97
171) n-Undecane	35.61	57	1034196	12.6674 ppbV	S	97
173) Naphthalene	37.86	128	1432820	17.0045 ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102624.D Vial: 1
Acq On : 27 Oct 2011 8:59 am Operator: KDK
Sample : EXT BLEND 750,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,750 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:16 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102625.D Vial: 1
Acq On : 27 Oct 2011 10:03 am Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:18 19111 Quant Results File: RA110918.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.48	81	255531	2.0000 ppbV	0.00
82) Chlorobenzene-d5	25.93	117	389258	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.35	83	152739	1.9773 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
65) Fluorobenzene	18.80	96	479443	1.9711 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
113) Toluene-d8	22.70	98	430940	2.0197 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	
115) 1,4-Dichlorobutane	27.83	90	46971	2.2433 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	
141) 1,4-Bromofluorobenzene	28.91	95	219933	2.2414 ppbV	0.00
Spiked Amount 2.000			Recovery	= 112.00%	

Target Compounds						Qvalue
6) Halocarbon 134A	4.30	69	487963	12.8387 ppbV	S	95
8) Chlorodifluoromethane	5.45	51	702563	12.8046 ppbV	S	98
14) Acetaldehyde	7.42	44	178257m	14.8527 ppbV	S	
19) Methanol	8.26	31	95283m	14.0270 ppbV	S	
21) Neopentane	8.80	57	1562549	12.3185 ppbV	S	96
22) Dichlorofluoromethane	10.04	67	1223799	13.0331 ppbV	S	100
26) Vinyl bromide	10.27	106	703316	11.6434 ppbV	S	97
28) Ethanol	10.40	45	161770	13.1131 ppbV	S	97
29) Acetonitrile	10.49	41	327408	12.8019 ppbV	S	99
30) Acrolein	10.71	56	175053	14.0476 ppbV	S	97
34) Acetone	11.02	43	559083	12.6280 ppbV	S	96
35) 2-Propanol	11.80	45	631505	16.2853 ppbV	S	97
36) Acrylonitrile	11.92	52	288864	13.7070 ppbV	S	98
38) Diethyl ether	12.12	74	254357	13.2087 ppbV	S	97
45) Carbon Disulfide	12.76	76	1939094	11.4153 ppbV	S	100
52) 1-Propanol	14.19	59	91118m	17.2966 ppbV	S	
58) Vinyl acetate	14.87	43	834359m	10.4926 ppbV	S	
59) cis-4-Methyl-2-pentene	14.68	69	1145532	13.1110 ppbV	S	96
60) trans-4-Methyl-2-pentene	14.82	69	1260768	12.5847 ppbV	S	97
61) Butyraldehyde	14.93	72	103288	13.5435 ppbV	S	92
62) 2-Butanone	15.17	43	823334	13.7226 ppbV	S	97
70) 2-Ethyl-1-butene	16.07	69	682988	12.3213 ppbV	S	97
73) cis-3-Hexene	16.24	55	652249	12.1484 ppbV	S	96
75) 2-Methyl-2-pentene	16.42	41	627086	11.0839 ppbV	S	90
76) cis-3-Methyl-2-pentene	16.54	69	816934	12.7857 ppbV	S	95
83) Methylcyclopentene	18.23	67	1555090	14.2522 ppbV	S	96
86) 1-Butanol	18.50	56	202469m	8.6742 ppbV	S	
90) Cyclohexene	19.37	67	1032714	13.5116 ppbV	S	98
95) 1,4-Dioxane	19.98	88	437363	16.6122 ppbV	S	90
96) 1-Heptene	19.99	55	411147	13.1591 ppbV	S	93
99) trans-3-Heptene	20.40	41	589936	12.9587 ppbV	S	95
101) cis-3-Heptene	20.54	41	596596	12.7989 ppbV	S	92
102) trans-2-Heptene	20.69	55	623852	13.0425 ppbV	S	97
103) 2,4,4-Trimethyl-1-pentene	20.94	57	1846342	13.9887 ppbV	S	95
105) Methylisobutylketone	21.44	43	1007881	16.1869 ppbV	S	95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102625.D Vial: 1
Acq On : 27 Oct 2011 10:03 am Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:18 19111 Quant Results File: RA110918.RES

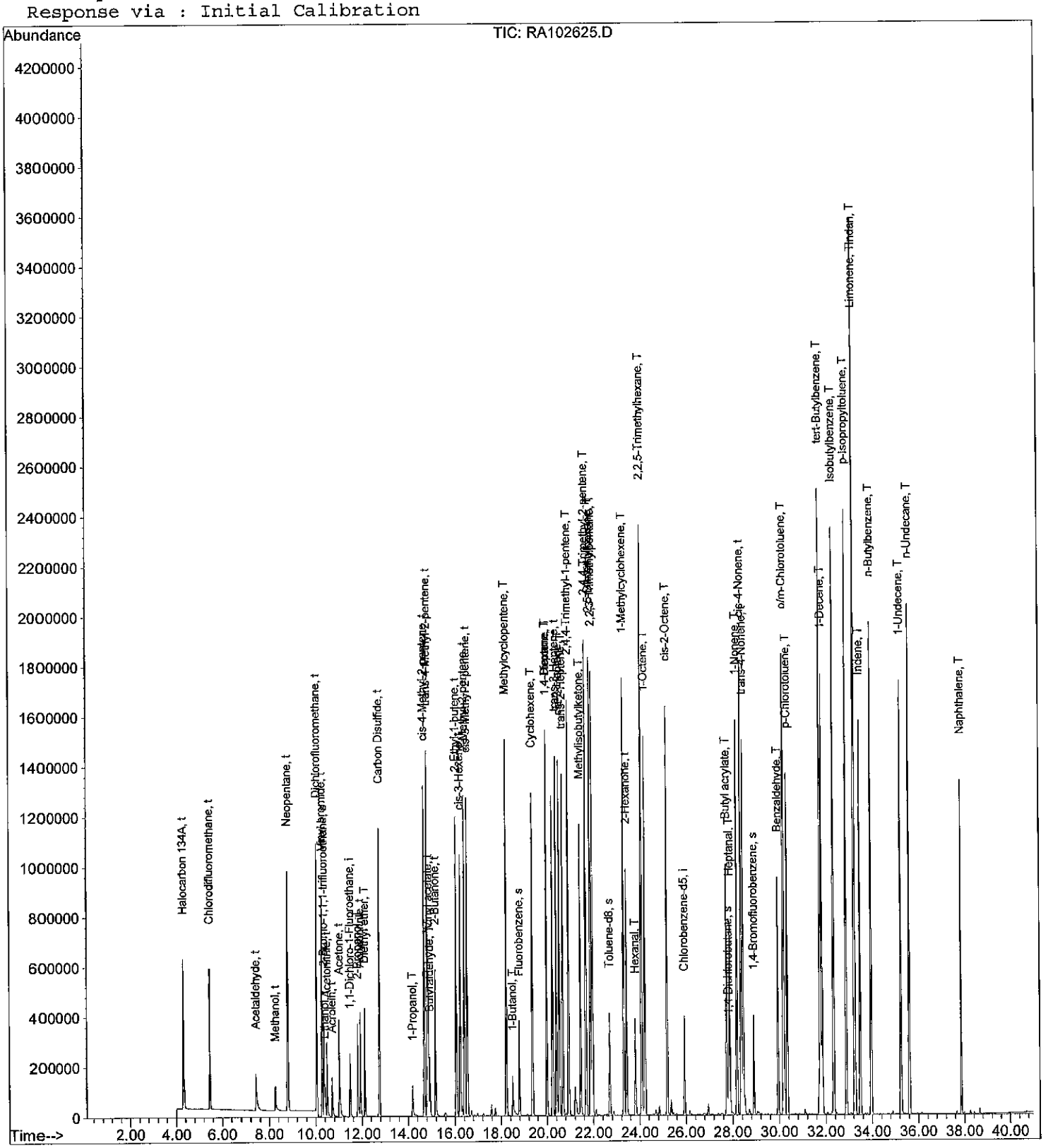
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration
DataAcq Meth : RA110918

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
107) 2,4,4-Trimethyl-2-pentene	21.68	55	1109410	13.6424	ppbV	S	98
108) 2,5-Dimethylhexane	21.87	57	1358237	13.6918	ppbV	S	96
109) 2,2,3-Trimethylpentane	21.96	57	2179679	13.5478	ppbV	S	98
116) 2-Hexanone	23.43	43	852055	16.1664	ppbV	S	95
118) 1-Methylcyclohexene	23.31	81	1244667	14.5726	ppbV	S	97
121) Hexanal	23.81	44	155452	14.7117	ppbV	S	95
123) 2,2,5-Trimethylhexane	24.08	57	2841366	14.6433	ppbV	S	98
124) 1-Octene	24.23	55	507856	13.1788	ppbV	S	96
127) cis-2-Octene	25.19	55	730512	14.0760	ppbV	S	97
132) Butyl acrylate	27.75	55	950512	16.3315	ppbV	S	98
133) Heptanal	27.88	70	301940	17.5080	ppbV	S	95
137) 1-Nonene	28.19	56	568471	13.6577	ppbV	S	97
138) cis-4-Nonene	28.37	55	1112244	15.4094	ppbV	S	95
139) trans-4-Nonene	28.47	55	873742	12.6305	ppbV	S	97
143) Benzaldehyde	29.95	77	548871	16.4925	ppbV	S	99
145) o/m-Chlorotoluene	30.19	91	2835432	28.2749	ppbV	S	96
146) p-Chlorotoluene	30.35	91	1383448	14.4353	ppbV	S	95
154) tert-Butylbenzene	31.77	119	2336923	14.2734	ppbV	S	98
155) 1-Decene	31.85	56	514686	15.7922	ppbV	S	95
160) Isobutylbenzene	32.34	91	2464883	15.8355	ppbV	S	98
162) p-Isopropyltoluene	32.88	119	2630472	16.0219	ppbV	S	99
164) Limonene	33.24	68	1006951	15.6009	ppbV	S	99
165) Indan	33.26	117	1795928	14.7850	ppbV	S	99
166) Indene	33.48	115	1545053	15.6184	ppbV	S	97
169) n-Butylbenzene	33.96	91	1982930	17.3674	ppbV	S	97
170) 1-Undecene	35.25	55	453671	15.8393	ppbV	S	97
171) n-Undecane	35.61	57	1291730	15.5495	ppbV	S	96
173) Naphthalene	37.86	128	1425508	16.6266	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111026\RA102625.D Vial: 1
Acq On : 27 Oct 2011 10:03 am Operator: KDK
Sample : EXT BLEND 1000,,,,0.01060;EXT Inst : GCMS-R1
Misc : 1,1,1000,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 27 12:18 19111 Quant Results File: RA110918.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA110918.M (RTE Integrator)
Title :
Last Update : Wed Oct 19 10:19:11 2011
Response via : Initial Calibration



Response Factor Report VMSC

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration

12-8-11

Calibration Files
20 =MC110710.D 50 =MC110711.D 100 =MC110712.D
250 =MC110713.D 500 =MC110714.D 750 =MC110715.D

1000 =MC110716.D 20A =MC110710.D 50A =MC110711.D 100A =MC110712.D

		Compound	20	50	100	250	500	750	1000	20A	50A	100A	Avg	%RSD
1)	i	1,1-Dichloro-1-Fluoro	----------ISTD----------											
2)	s	2-Bromo-1,1,1-trifl	0.418	0.413	0.418	0.418	0.426	0.426	0.356	0.418	0.413	0.418	0.41060	5.79
3)	t	Ethylene	0.055	0.062	0.061	0.061	0.062	0.064	0.069				0.06197	6.50
4)	t	Acetylene	0.088	0.081	0.083	0.085	0.094	0.103	0.116				0.09277	13.64
5)	t	Ethane	0.048	0.044	0.044	0.042	0.042	0.042	0.045				0.04382	5.07
6)	t	Halocarbon 134A											0.00000	-1.00
7)	t	Propylene	0.140	0.139	0.146	0.154	0.170	0.184	0.198				0.16154	14.23
8)	t	Chlorodifluorometha											0.00000	-1.00
9)	t	Propane	0.073	0.069	0.070	0.070	0.075	0.081	0.088				0.07501	9.57
10)	t	Dichlorodifluoromet	0.866	0.847	0.843	0.847	0.909	0.968	1.042				0.90302	8.44
11)	t	Chloromethane	0.194	0.182	0.186	0.187	0.202	0.218	0.211				0.19712	6.86
12)	t	Isobutane	0.391	0.395	0.412	0.423	0.458	0.483	0.466				0.43226	8.41
13)	t	Halocarbon 114	0.775	0.750	0.749	0.739	0.793	0.825	0.868				0.78558	5.99
14)	t	Acetaldehyde								0.053	0.067	0.084	0.08196	20.02
15)	t	Vinyl chloride	0.201	0.202	0.208	0.211	0.229	0.237	0.230				0.21694	6.82
16)	t	1-Butene/Isobutene	0.293	0.280	0.280	0.269	0.284	0.288	0.267				0.28021	3.44
17)	t	1,3-Butadiene	0.176	0.182	0.180	0.166	0.169	0.169	0.157				0.17101	5.06
18)	t	n-Butane	0.364	0.354	0.345	0.333	0.347	0.355	0.322				0.34571	4.07
19)	t	Methanol								0.070	0.061	0.059	0.04672	35.50
20)	t	trans-2-Butene	0.275	0.266	0.268	0.236	0.243	0.245	0.219				0.25034	8.09
21)	t	Neopentane											0.00000	-1.00
22)	t	Dichlorofluorometha											0.00000	-1.00
23)	t	Bromomethane	0.222	0.214	0.217	0.214	0.226	0.238	0.228				0.22276	3.96
24)	t	cis-2-Butene	0.276	0.273	0.267	0.236	0.236	0.238	0.211				0.24835	9.74
25)	t	Chloroethane	0.123	0.113	0.118	0.108	0.110	0.110	0.092				0.11044	8.88
26)	t	Vinyl bromide								0.256	0.239	0.237	0.22123	10.55
27)	t	3-Methyl-1-butene	0.502	0.464	0.472	0.455	0.473	0.482	0.454				0.47154	3.55
28)	t	Ethanol								0.055	0.066	0.069	0.05480	23.01
29)	t	Acetonitrile								0.095	0.109	0.120	0.13642	20.96
30)	t	Acrolein								0.018	0.029	0.036	0.04663	41.16
31)	t	Isopentane	0.291	0.287	0.292	0.283	0.289	0.305	0.266				0.28758	4.11
32)	t	Trichlorofluorometh	0.959	0.930	0.935	0.888	0.922	0.949	0.973				0.93654	2.94
33)	t	1-Pentene	0.296	0.285	0.294	0.273	0.251	0.244	0.212				0.26505	11.66
34)	t	Acetone								0.203	0.218	0.264	0.31577	27.66
35)	T	2-Propanol								0.203	0.218	0.264	0.00000	-1.00
36)	t	Acrylonitrile								0.053	0.062	0.073	0.08873	29.82
37)	t	n-Pentane	0.389	0.381	0.400	0.383	0.343	0.322	0.270				0.35551	13.21
38)	T	Diethyl ether											0.00000	-1.00
39)	t	Isoprene	0.234	0.235	0.245	0.238	0.225	0.224	0.197				0.22840	6.86

40)	t	trans-2-Pentene	0.408	0.390	0.410	0.395	0.367	0.365	0.318				0.37916	8.47
41)	t	1,1-Dichloroethene	0.406	0.405	0.411	0.397	0.348	0.318	0.263				0.36383	15.61
42)	t	cis-2-Pentene	0.392	0.385	0.403	0.399	0.379	0.380	0.324				0.38021	6.93
43)	t	Methylene chloride	0.306	0.287	0.286	0.289	0.298	0.300	0.254				0.28857	5.87
44)	t	2-Methyl-2-butene	0.405	0.398	0.419	0.413	0.406	0.413	0.359				0.40208	4.97
45)	t	Carbon Disulfide								0.704	0.683	0.675	0.61862	15.78
46)	t	3-Chloropropene	0.248	0.228	0.244	0.247	0.253	0.255	0.206				0.24010	7.20
47)	t	Halocarbon 113	0.447	0.408	0.407	0.417	0.458	0.498	0.535				0.45279	10.77
48)	t	Neohexane	0.333	0.340	0.344	0.360	0.382	0.389	0.333				0.35450	6.52
49)	t	Cyclopentene	0.440	0.446	0.476	0.473	0.451	0.441	0.367				0.44190	8.21
50)	t	trans-1,2-Dichloroe	0.355	0.345	0.352	0.368	0.382	0.378	0.309				0.35545	6.91
51)	t	4-Methyl-1-pentene	0.361	0.351	0.362	0.376	0.387	0.388	0.332				0.36536	5.53
52)	T	1-Propanol											0.00000	-1.00
53)	t	1,1-Dichloroethane	0.486	0.439	0.444	0.443	0.448	0.453	0.405				0.44532	5.34
54)	t	Cyclopentane	0.414	0.413	0.429	0.424	0.410	0.402	0.342				0.40482	7.21
55)	t	2,3-Dimethylbutane	0.557	0.541	0.549	0.567	0.595	0.609	0.513				0.56166	5.79
56)	T	Methyl tert-butyl e	0.359	0.396	0.514	0.639	0.727	0.763	0.691				0.58427	27.78
57)	t	Isohexane	0.317	0.292	0.290	0.295	0.309	0.312	0.264				0.29686	6.07
58)	t	Vinyl acetate								0.236	0.249	0.307	0.42023	37.03
59)	t	cis-4-Methyl-2-pent								0.236	0.249	0.307	0.00000	-1.00
60)	t	trans-4-Methyl-2-pe								0.236	0.249	0.307	0.00000	-1.00
61)	T	Butyraldehyde								0.236	0.249	0.307	0.00000	-1.00
62)	t	2-Butanone								0.183	0.203	0.251	0.32531	34.53
63)	t	Chloroprene	0.409	0.407	0.434	0.458	0.478	0.478	0.404				0.43823	7.57
64)	t	3-Methylpentane	0.445	0.430	0.437	0.440	0.455	0.458	0.435				0.44294	2.37
65)	s	Fluorobenzene	1.078	1.074	1.039	1.068	1.089	1.106	0.779	1.078	1.074	1.039	1.03325	10.59
66)	t	2-Methyl-1-pentene	0.370	0.337	0.352	0.389	0.389	0.424	0.372				0.37628	7.55
67)	t	1-Hexene	0.267	0.265	0.269	0.272	0.280	0.287	0.238				0.26819	5.77
68)	t	cis-1,2-Dichloroeth	0.361	0.336	0.339	0.347	0.368	0.374	0.323				0.34968	5.39
69)	t	Bromochloromethane	0.232	0.213	0.217	0.227	0.250	0.269	0.211				0.23152	9.25
70)	t	2-Ethyl-1-butene											0.00000	-1.00
71)	t	n-Hexane	0.361	0.344	0.359	0.375	0.398	0.402	0.301				0.36282	9.54
72)	t	Chloroform	0.657	0.609	0.583	0.597	0.625	0.641	0.526				0.60551	7.12
73)	t	cis-3-Hexene											0.00000	-1.00
74)	t	trans-2-Hexene	0.438	0.415	0.427	0.436	0.452	0.464	0.347				0.42578	8.95
75)	t	2-Methyl-2-pentene											0.00000	-1.00
76)	t	cis-3-Methyl-2-pent											0.00000	-1.00
77)	t	cis-2-Hexene	0.356	0.359	0.373	0.384	0.401	0.410	0.313				0.37079	8.76
78)	t	Methylcyclopentane	0.438	0.432	0.447	0.471	0.498	0.500	0.368				0.45053	10.10
79)	t	1,2-Dichloroethane	0.494	0.462	0.424	0.443	0.471	0.476	0.395				0.45219	7.53
80)	t	2,4-Dimethylpentane	0.568	0.541	0.555	0.580	0.604	0.607	0.466				0.56014	8.55
81)	t	1,1,1-Trichloroetha	0.760	0.708	0.713	0.744	0.799	0.819	0.659				0.74333	7.44
82)	i	Chlorobenzene-d5	----------ISTD----------											
83)	T	Methylcyclopentene											0.00000	-1.00
84)	t	Benzene	0.816	0.736	0.702	0.675	0.658	0.684	0.691				0.70895	7.46
85)	t	Carbon tetrachlorid	1.081	0.972	1.010	0.966	0.972	0.984	1.035				1.00272	4.23
86)	T	1-Butanol								0.128	0.120	0.140	0.11393	19.23
87)	t	Cyclohexane	0.477	0.442	0.452	0.442	0.433	0.429	0.429				0.44356	3.85
88)	t	Isoheptane	0.783	0.715	0.740	0.711	0.682	0.675	0.697				0.71459	5.20
89)	t	2,3-Dimethylpentane	0.641	0.559	0.598	0.565	0.533	0.527	0.555				0.56842	6.95
90)	T	Cyclohexene											0.00000	-1.00
91)	t	3-Methylhexane	0.607	0.549	0.581	0.564	0.542	0.535	0.558				0.56221	4.42
92)	t	1,2-Dichloropropane	0.231	0.210	0.196	0.210	0.220	0.228	0.242				0.21961	7.10
93)	t	Bromodichloromethan	0.679	0.640	0.573	0.604	0.619	0.639	0.697				0.63596	6.69

94)	t	Trichloroethene	0.498	0.434	0.443	0.440	0.453	0.473	0.453				0.45627	4.85
95)	T	1,4-Dioxane								0.146	0.103	0.101	0.08748	37.68
96)	T	1-Heptene								0.146	0.103	0.101	0.00000	-1.00
97)	t	2,2,4-Trimethylpent	1.618	1.474	1.520	1.469	1.422	1.415	1.456				1.48204	4.69
98)	t	2-Chloropentane	0.254	0.251	0.263	0.319	0.348	0.375	0.404				0.31607	19.64
99)	t	trans-3-Heptene											0.00000	-1.00
100)	t	n-Heptane	0.297	0.285	0.288	0.284	0.279	0.279	0.285				0.28530	2.16
101)	T	cis-3-Heptene											0.00000	-1.00
102)	T	trans-2-Heptene											0.00000	-1.00
103)	T	2,4,4-Trimethyl-1-p											0.00000	-1.00
104)	t	cis-1,3-Dichloropro	0.279	0.264	0.261	0.322	0.356	0.378	0.415				0.32502	18.62
105)	T	Methylisobutylketon								0.381	0.365	0.422	0.50257	23.10
106)	t	Methylcyclohexane	0.567	0.524	0.555	0.545	0.533	0.541	0.555				0.54586	2.68
107)	T	2,4,4-Trimethyl-2-p											0.00000	-1.00
108)	T	2,5-Dimethylhexane											0.00000	-1.00
109)	T	2,2,3-Trimethylpent											0.00000	-1.00
110)	t	trans-1,3-Dichlorop	0.207	0.205	0.220	0.301	0.348	0.382					0.27722	27.85
111)	t	1,1,2-Trichloroetha	0.187	0.169	0.175	0.213	0.242	0.263	0.288				0.21964	21.03
112)	t	2,3,4-Trimethylpent	0.917	0.847	0.853	0.870	0.860	0.863	0.929				0.87693	3.70
113)	s	Toluene-d8	1.139	1.115	1.119	1.046	1.007	1.000	1.060	1.139	1.115	1.119	1.06943	5.02
114)	t	Toluene	0.508	0.484	0.488	0.600	0.660	0.715	0.791				0.60662	19.90
115)	s	1,4-Dichlorobutane	0.069	0.070	0.071	0.077	0.078	0.076	0.081	0.069	0.070	0.071	0.07456	5.94
116)	t	2-Hexanone								0.069	0.070	0.071	0.00000	-1.00
117)	t	2-Methylheptane	0.435	0.433	0.456	0.504	0.539	0.558	0.625				0.50722	14.15
118)	T	1-Methylcyclohexene											0.00000	-1.00
119)	t	Dibromochloromethan	0.433	0.397	0.399	0.491	0.556	0.613	0.696				0.51236	22.32
120)	t	3-Methylheptane	0.273	0.269	0.281	0.321	0.340	0.366	0.398				0.32128	15.45
121)	T	Hexanal											0.00000	-1.00
122)	t	1,2-Dibromoethane	0.383	0.341	0.336	0.389	0.428	0.471	0.528				0.41086	17.07
123)	T	2,2,5-Trimethylhexa											0.00000	-1.00
124)	T	1-Octene											0.00000	-1.00
125)	t	n-Octane	0.338	0.338	0.386	0.481	0.515	0.545	0.621				0.46060	23.75
126)	t	Tetrachloroethene	0.369	0.321	0.306	0.325	0.338	0.368	0.391				0.34526	8.94
127)	T	cis-2-Octene											0.00000	-1.00
128)	t	Chlorobenzene	0.448	0.401	0.393	0.485	0.536	0.585	0.645				0.49904	18.96
129)	t	Ethylbenzene	0.374	0.377	0.481	0.682	0.791	0.864	0.972				0.64840	37.24
130)	t	m/p-Xylene	0.348	0.353	0.434	0.598	0.682	0.740	0.851				0.57219	34.68
131)	t	Bromoform	0.241	0.216	0.236	0.319	0.375	0.424					0.30172	28.08
132)	T	Butyl acrylate											0.00000	-1.00
133)	T	Heptanal											0.00000	-1.00
134)	t	Styrene	0.214	0.197	0.251	0.377	0.451	0.501	0.576				0.36679	40.78
135)	t	1,1,2,2-Tetrachloro	0.278	0.243	0.272	0.356	0.403	0.433	0.509				0.35639	27.46
136)	t	o-Xylene	0.324	0.325	0.394	0.555	0.634	0.685	0.790				0.52954	35.05
137)	T	1-Nonene											0.00000	-1.00
138)	t	cis-4-Nonene											0.00000	-1.00
139)	t	trans-4-Nonene											0.00000	-1.00
140)	t	n-Nonane	0.233	0.228	0.300	0.411	0.482	0.522	0.639				0.40218	38.85
141)	s	1,4-Bromofluorobenz	0.696	0.695	0.705	0.748	0.745	0.726	0.755	0.696	0.695	0.705	0.72421	3.43
142)	t	Isopropylbenzene	0.445	0.438	0.573	0.849	1.018	1.142	1.330				0.82771	42.75
143)	T	Benzaldehyde											0.00000	-1.00
144)	t	alpha-Pinene	0.395	0.383	0.526	0.730	0.854	0.952	1.137				0.71104	40.68
145)	T	o/m-Chlorotoluene											0.00000	-1.00
146)	T	p-Chlorotoluene											0.00000	-1.00
147)	t	n-Propylbenzene	0.483	0.455	0.586	0.893	1.084	1.185	1.436				0.87457	43.50
148)	t	m-Ethyltoluene	0.338	0.346	0.439	0.689	0.855	0.952	1.173				0.68470	47.51

149)	t	p-Ethyltoluene	0.353	0.344	0.439	0.677	0.831	0.925	1.122				0.67020	45.42
150)	t	1,3,5-Trimethylbenz	0.311	0.317	0.417	0.637	0.785	0.874	1.071				0.63021	46.88
151)	t	o-Ethyltoluene	0.346	0.339	0.456	0.725	0.898	1.004	1.217				0.71200	48.44
152)	t	beta-Pinene	0.355	0.369	0.515	0.736	0.866	0.965	1.159				0.70924	43.56
153)	t	1,2,4-Trimethylbenz	0.273	0.267	0.367	0.596	0.748	0.836	1.045				0.59033	51.18
154)	T	tert-Butylbenzene											0.00000	-1.00
155)	T	1-Decene											0.00000	-1.00
156)	t	Benzyl chloride	0.229	0.202	0.246	0.406	0.525	0.583	0.764				0.42218	50.29
157)	t	m-Dichlorobenzene	0.261	0.227	0.258	0.395	0.484	0.551	0.688				0.40917	42.50
158)	t	n-Decane	0.201	0.202	0.260	0.377	0.463	0.520	0.668				0.38446	45.95
159)	t	p-Dichlorobenzene	0.255	0.223	0.259	0.383	0.470	0.539	0.692				0.40297	43.20
160)	T	Isobutylbenzene											0.00000	-1.00
161)	t	1,2,3-Trimethylbenz	0.283	0.277	0.369	0.637	0.808	0.921	1.155				0.63552	53.94
162)	T	p-Isopropyltoluene											0.00000	-1.00
163)	t	o-Dichlorobenzene	0.224	0.185	0.215	0.345	0.434	0.506	0.634				0.36321	46.60
164)	T	Limonene								0.134	0.130	0.184	0.28314	49.85
165)	T	Indan								0.307	0.288	0.353	0.56445	47.76
166)	T	Indene								0.227	0.202	0.259	0.39682	49.48
167)	t	m-Diethylbenzene	0.204	0.198	0.261	0.454	0.591	0.686	0.904				0.47099	57.36
168)	t	p-Diethylbenzene	0.182	0.170	0.226	0.428	0.578	0.691	0.926				0.45733	63.19
169)	T	n-Butylbenzene											0.00000	-1.00
170)	T	1-Undecene											0.00000	-1.00
171)	T	n-Undecane								0.203	0.207	0.282	0.48941	57.34
172)	t	1,2,4-Trichlorobenz	0.138	0.110	0.123	0.233	0.338	0.440	0.603				0.28368	65.81
173)	T	Naphthalene								0.388	0.309	0.368	0.83516	65.79
174)	t	Hexachloro-1,3-buta	0.248	0.212	0.244	0.381	0.551	0.684	0.929				0.46410	58.20

(#) = Out of Range ### Number of calibration levels exceeded format ###

CA111107.M Tue Nov 08 13:56:01 2011 DAH

Calibration Table Report

Method: CA111107.M

Title:

Last Calibration: Tue Nov 08 13:54:43 2011

Calibration Files

Compound	20	50	100	250	500	750	1000	20A	50A	100A	250A	500A	750A	999A	Avg	%RSD
	MC110710.	MC110711.	MC110712.	MC110713.	MC110714.	MC110715.	MC110716.	MC110710.	MC110711.	MC110712.	MC110713.	MC110714.	MC110715.	MC110716.D		
1,1-Dichloro-1-Fluoroethane	ISTD															
2-Bromo-1,1,1-trifluoroethane	0.418	0.413	0.418	0.418	0.426	0.426	0.356	0.418	0.413	0.418	0.418	0.426	0.426	0.356	0.41060	5.79
Ethylene	0.055	0.062	0.061	0.061	0.062	0.064	0.069								0.06197	6.50
Acetylene	0.088	0.081	0.083	0.085	0.094	0.103	0.116								0.09277	13.64
Ethane	0.048	0.044	0.044	0.042	0.042	0.042	0.045								0.04382	5.07
Halocarbon 134A															0.00000	0.00
Propylene	0.140	0.139	0.146	0.154	0.170	0.184	0.198								0.16154	14.23
Chlorodifluoromethane															0.00000	0.00
Propane	0.073	0.069	0.070	0.070	0.075	0.081	0.088								0.07501	9.57
Dichlorodifluoromethane	0.866	0.847	0.843	0.847	0.909	0.968	1.042								0.90302	8.44
Chloromethane	0.194	0.182	0.186	0.187	0.202	0.218	0.211								0.19712	6.86
Isobutane	0.391	0.395	0.412	0.423	0.458	0.483	0.466								0.43226	8.41
Halocarbon 114	0.775	0.750	0.749	0.739	0.793	0.825	0.868								0.78558	5.99
Acetaldehyde								0.053	0.067	0.084	0.084	0.093	0.096	0.096	0.08196	20.02
Vinyl chloride	0.201	0.202	0.208	0.211	0.229	0.237	0.230					0.253			0.21694	6.82
1-Butene/Isobutene	0.293	0.280	0.280	0.269	0.284	0.288	0.267								0.28022	3.44
1,3-Butadiene	0.176	0.182	0.180	0.166	0.169	0.169	0.157								0.17101	5.06
n-Butane	0.364	0.354	0.345	0.333	0.347	0.355	0.322								0.34571	4.07
Methanol					0.344			0.070	0.061	0.059	0.044	0.032	0.028	0.033	0.04672	35.50
trans-2-Butene	0.275	0.266	0.268	0.236	0.243	0.245	0.219								0.25034	8.09
Neopentane															0.00000	0.00
Dichlorofluoromethane															0.00000	0.00
Bromomethane	0.222	0.214	0.217	0.214	0.226	0.238	0.228								0.22276	3.96
cis-2-Butene	0.276	0.273	0.267	0.236	0.236	0.238	0.211								0.24835	9.74
Chloroethane	0.123	0.113	0.118	0.108	0.110	0.110	0.092								0.11044	8.88
Vinyl bromide								0.256	0.239	0.237	0.215	0.207	0.207	0.188	0.22123	10.55
3-Methyl-1-butene	0.502	0.464	0.472	0.455	0.473	0.482	0.464								0.47154	3.55
Ethanol								0.055	0.066	0.069	0.066	0.049	0.038	0.041	0.05480	23.01
Acetonitrile								0.095	0.109	0.120	0.147	0.159	0.171	0.154	0.13642	20.96
Acrolein								0.018	0.029	0.036	0.050	0.062	0.068	0.063	0.04663	41.16
Isopentane	0.291	0.287	0.292	0.283	0.289	0.305	0.266								0.28758	4.11
Trichlorofluoromethane	0.959	0.930	0.935	0.888	0.922	0.949	0.973								0.93654	2.94
1-Pentene	0.296	0.285	0.294	0.273	0.251	0.244	0.212								0.26505	11.66
Acetone								0.203	0.218	0.264	0.333	0.383	0.414	0.395	0.31577	27.66
2-Propanol															0.00000	0.00
Acrylonitrile								0.053	0.062	0.073	0.093	0.109	0.121	0.111	0.08873	29.82
n-Pentane	0.389	0.381	0.400	0.383	0.343	0.322	0.270								0.35551	13.21
Diethyl ether															0.00000	0.00
Isoprene	0.234	0.235	0.245	0.238	0.225	0.224	0.197								0.22840	6.86
trans-2-Pentene	0.408	0.390	0.410	0.395	0.367	0.365	0.318								0.37916	8.47
1,1-Dichloroethene	0.406	0.405	0.411	0.397	0.348	0.318	0.263								0.36383	15.61
cis-2-Pentene	0.392	0.385	0.403	0.399	0.379	0.380	0.324								0.38021	6.93
Methylene chloride	0.306	0.287	0.286	0.289	0.298	0.300	0.254								0.28857	5.87
2-Methyl-2-butene	0.405	0.398	0.419	0.413	0.406	0.413	0.359								0.40208	4.97
Carbon Disulfide								0.704	0.683	0.675	0.655	0.615	0.58	0.419	0.61862	15.78
3-Chloropropene	0.248	0.228	0.244	0.247	0.253	0.255	0.206								0.24011	7.20
Halocarbon 113	0.447	0.408	0.407	0.417	0.458	0.498	0.535								0.45279	10.77
Neohexane	0.333	0.340	0.344	0.360	0.382	0.389	0.333								0.35450	6.52
Cyclopentene	0.440	0.446	0.476	0.473	0.451	0.441	0.367								0.44190	8.21
trans-1,2-Dichloroethene	0.355	0.345	0.352	0.368	0.382	0.378	0.309								0.35545	6.91
4-Methyl-1-pentene	0.361	0.351	0.362	0.376	0.387	0.388	0.332								0.36536	5.53
1-Propanol															0.00000	0.00
1,1-Dichloroethane	0.486	0.439	0.444	0.443	0.448	0.453	0.405								0.44532	5.34
Cyclopentane	0.414	0.413	0.429	0.424	0.410	0.402	0.342								0.40482	7.21
2,3-Dimethylbutane	0.557	0.541	0.549	0.567	0.595	0.609	0.513								0.56166	5.79
Methyl tert-butyl ether	0.359	0.396	0.514	0.639	0.727	0.763	0.691								0.58427	27.78
Isohexane	0.317	0.292	0.290	0.295	0.309	0.312	0.264								0.29686	6.07

	Vinyl acetate								0.236	0.249	0.307	0.441	0.544	0.606	0.559	0.42023	37.03
	cis-4-Methyl-2-pentene															0.00000	0.00
	trans-4-Methyl-2-pentene															0.00000	0.00
	Butyraldehyde															0.00000	0.00
	2-Butanone								0.183	0.203	0.251	0.344	0.420	0.456	0.420	0.32531	34.53
	Chloroprene	0.409	0.407	0.434	0.458	0.478	0.478	0.404								0.43823	7.57
	3-Methylpentane	0.445	0.430	0.437	0.440	0.455	0.458	0.435								0.44294	2.37
	Fluorobenzene	1.078	1.074	1.039	1.068	1.089	1.106	0.779	1.078	1.074	1.039	1.068	1.089	1.106	0.779	1.03325	10.59
	2-Methyl-1-pentene	0.370	0.337	0.352	0.389	0.389	0.424	0.372								0.37628	7.55
	1-Hexene	0.267	0.265	0.269	0.272	0.280	0.287	0.238								0.26819	5.77
	cis-1,2-Dichloroethene	0.361	0.336	0.339	0.347	0.368	0.374	0.323								0.34968	5.39
	Bromochloromethane	0.232	0.213	0.217	0.227	0.250	0.269	0.211								0.23153	9.25
	2-Ethyl-1-butene															0.00000	0.00
	n-Hexane	0.361	0.344	0.359	0.375	0.398	0.402	0.301								0.36282	9.54
	Chloroform	0.657	0.609	0.583	0.597	0.625	0.641	0.526								0.60551	7.12
	cis-3-Hexene															0.00000	0.00
	trans-2-Hexene	0.438	0.415	0.427	0.436	0.452	0.464	0.347								0.42578	8.95
	2-Methyl-2-pentene															0.00000	0.00
	cis-3-Methyl-2-pentene															0.00000	0.00
	cis-2-Hexene	0.356	0.359	0.373	0.384	0.401	0.410	0.313								0.37079	8.76
	Methylcyclopentane	0.438	0.432	0.447	0.471	0.498	0.500	0.368								0.45053	10.10
	1,2-Dichloroethane	0.494	0.462	0.424	0.443	0.471	0.476	0.395								0.45220	7.53
	2,4-Dimethylpentane	0.568	0.541	0.555	0.580	0.604	0.607	0.466								0.56014	8.55
	1,1,1-Trichloroethane	0.760	0.708	0.713	0.744	0.799	0.819	0.659								0.74333	7.44
	Chlorobenzene-d5	ISTD	0.439	0.383	0.499	0.606	0.607	0.756								0.54399	22.78
	Methylcyclopentene					0.658										0.00000	0.00
	Benzene	0.816	0.736	0.702	0.675	0.658	0.684	0.691								0.70896	7.46
	Carbon tetrachloride	1.081	0.972	1.010	0.966	0.972	0.984	1.035								1.00272	4.23
	1-Butanol								0.128	0.120	0.140	0.132	0.106	0.09	0.082	0.11393	19.23
	Cyclohexane	0.477	0.442	0.452	0.442	0.433	0.429	0.429								0.44356	3.85
	Isoheptane	0.783	0.715	0.740	0.711	0.682	0.675	0.697								0.71459	5.20
	2,3-Dimethylpentane	0.641	0.559	0.598	0.565	0.533	0.527	0.555								0.56842	6.95
	Cyclohexene															0.00000	0.00
	3-Methylhexane	0.607	0.549	0.581	0.564	0.542	0.535	0.558								0.56221	4.42
	1,2-Dichloropropane	0.231	0.210	0.196	0.210	0.220	0.228	0.242								0.21961	7.10
	Bromodichloromethane	0.679	0.640	0.573	0.604	0.619	0.639	0.697								0.63596	6.69
	Trichloroethene	0.498	0.434	0.443	0.440	0.453	0.473	0.453								0.45627	4.85
	1,4-Dioxane								0.146	0.103	0.101	0.083	0.054	0.05	0.076	0.08748	37.68
	1-Heptene															0.00000	0.00
	2,2,4-Trimethylpentane	1.618	1.474	1.520	1.469	1.422	1.415	1.456								1.48204	4.69
	2-Chloropentane	0.254	0.251	0.263	0.319	0.348	0.375	0.404								0.31607	19.64
	trans-3-Heptene															0.00000	0.00
	n-Heptane	0.297	0.285	0.288	0.284	0.279	0.279	0.285								0.28530	2.16
	cis-3-Heptene															0.00000	0.00
	trans-2-Heptene															0.00000	0.00
	2,4,4-Trimethyl-1-pentene															0.00000	0.00
	cis-1,3-Dichloropropene	0.279	0.264	0.261	0.322	0.356	0.378	0.415								0.32502	18.62
	Methylisobutylketone								0.381	0.365	0.422	0.521	0.574	0.585	0.671	0.50258	23.10
	Methylcyclohexane	0.567	0.524	0.555	0.545	0.533	0.541	0.555								0.54586	2.68
	2,4,4-Trimethyl-2-pentene															0.00000	0.00
	2,5-Dimethylhexane															0.00000	0.00
	2,2,3-Trimethylpentane															0.00000	0.00
	trans-1,3-Dichloropropene	0.207	0.205	0.22	0.301	0.348	0.382									0.27722	27.85
	1,1,2-Trichloroethane	0.187	0.169	0.175	0.213	0.242	0.263	0.288								0.21964	21.03
	2,3,4-Trimethylpentane	0.917	0.847	0.853	0.87	0.86	0.863	0.929								0.87693	3.70
	Toluene-d8	1.139	1.115	1.119	1.046	1.007	1	1.06	1.139	1.115	1.119	1.046	1.007	1	1.060	1.06943	5.02
	Toluene	0.508	0.484	0.488	0.6	0.66	0.715	0.791								0.60662	19.90
	1,4-Dichlorobutane	0.069	0.07	0.071	0.077	0.078	0.076	0.081	0.069	0.07	0.071	0.077	0.078	0.076	0.081	0.07456	5.94
	2-Hexanone															0.00000	0.00
	2-Methylheptane	0.435	0.433	0.456	0.504	0.539	0.558	0.625								0.50722	14.15
	1-Methylcyclohexene															0.00000	0.00
	Dibromochloromethane	0.433	0.397	0.399	0.491	0.556	0.613	0.696								0.51236	22.32
	3-Methylheptane	0.273	0.269	0.281	0.321	0.34	0.366	0.398								0.32128	15.45
	Hexanal															0.00000	0.00
	1,2-Dibromoethane	0.383	0.341	0.336	0.389	0.428	0.471	0.528								0.41087	17.07
	2,2,5-Trimethylhexane															0.00000	0.00
	1-Octene															0.00000	0.00

	n-Octane	0.338	0.338	0.386	0.481	0.515	0.545	0.621								0.46060	23.75
	Tetrachloroethene	0.369	0.321	0.306	0.325	0.338	0.368	0.391								0.34526	8.94
	cis-2-Octene															0.00000	0.00
	Chlorobenzene	0.448	0.401	0.393	0.485	0.536	0.585	0.645								0.49904	18.96
	Ethylbenzene	0.374	0.377	0.481	0.682	0.791	0.864	0.972								0.64840	37.24
	m/p-Xylene	0.348	0.353	0.434	0.598	0.682	0.74	0.851								0.57219	34.68
	Bromoform	0.241	0.216	0.236	0.319	0.375	0.424									0.30172	28.08
	Butyl acrylate															0.00000	0.00
	Heptanal															0.00000	0.00
	Styrene	0.214	0.197	0.251	0.377	0.451	0.501	0.576								0.36679	40.78
	1,1,2,2-Tetrachloroethane	0.278	0.243	0.272	0.356	0.403	0.433	0.509								0.35639	27.46
	o-Xylene	0.324	0.325	0.394	0.555	0.634	0.685	0.79								0.52954	35.05
	1-Nonene															0.00000	0.00
	cis-4-Nonene															0.00000	0.00
	trans-4-Nonene															0.00000	0.00
	n-Nonane	0.233	0.228	0.3	0.411	0.482	0.522	0.639								0.40218	38.85
	1,4-Bromofluorobenzene	0.696	0.695	0.705	0.748	0.745	0.726	0.755	0.696	0.695	0.705	0.748	0.745	0.726	0.755	0.72421	3.43
	Isopropylbenzene	0.445	0.438	0.573	0.849	1.018	1.142	1.33								0.82771	42.75
	Benzaldehyde															0.00000	0.00
	alpha-Pinene	0.395	0.383	0.526	0.73	0.854	0.952	1.137								0.71104	40.68
	o/m-Chlorotoluene															0.00000	0.00
	p-Chlorotoluene															0.00000	0.00
	n-Propylbenzene	0.483	0.455	0.586	0.893	1.084	1.185	1.436								0.87458	43.50
	m-Ethyltoluene	0.338	0.346	0.439	0.689	0.855	0.952	1.173								0.68470	47.51
	p-Ethyltoluene	0.353	0.344	0.439	0.677	0.831	0.925	1.122								0.67020	45.42
	1,3,5-Trimethylbenzene	0.311	0.317	0.417	0.637	0.785	0.874	1.071								0.63021	46.88
	o-Ethyltoluene	0.346	0.339	0.456	0.725	0.898	1.004	1.217								0.71201	48.44
	beta-Pinene	0.355	0.369	0.515	0.736	0.866	0.965	1.159								0.70924	43.56
	1,2,4-Trimethylbenzene	0.273	0.267	0.367	0.596	0.748	0.836	1.045								0.59033	51.18
	tert-Butylbenzene															0.00000	0.00
	1-Decene															0.00000	0.00
	Benzyl chloride	0.229	0.202	0.246	0.406	0.525	0.583	0.764								0.42218	50.29
	m-Dichlorobenzene	0.261	0.227	0.258	0.395	0.484	0.551	0.688								0.40917	42.50
	n-Decane	0.201	0.202	0.26	0.377	0.463	0.52	0.668								0.38447	45.95
	p-Dichlorobenzene	0.255	0.223	0.259	0.383	0.47	0.539	0.692								0.40297	43.20
	Isobutylbenzene															0.00000	0.00
	1,2,3-Trimethylbenzene	0.283	0.277	0.369	0.637	0.808	0.921	1.155								0.63552	53.94
	p-Isopropyltoluene															0.00000	0.00
	o-Dichlorobenzene	0.224	0.185	0.215	0.345	0.434	0.506	0.634								0.36321	46.60
	Limonene								0.134	0.13	0.184	0.288	0.353	0.395	0.499	0.28314	49.85
	Indan								0.307	0.288	0.353	0.546	0.681	0.776	1.000	0.56446	47.76
	Indene								0.227	0.202	0.259	0.451	0.58	0.662	1.000	0.39682	49.48
	m-Diethylbenzene	0.204	0.198	0.261	0.454	0.591	0.686	0.904								0.47099	57.36
	p-Diethylbenzene	0.182	0.17	0.226	0.428	0.578	0.691	0.926								0.45733	63.19
	n-Butylbenzene															0.00000	0.00
	1-Undecene															0.00000	0.00
	n-Undecane								0.203	0.207	0.282	0.468	0.611	0.718	0.937	0.48941	57.34
	1,2,4-Trichlorobenzene	0.138	0.11	0.123	0.233	0.338	0.44	0.603								0.28368	65.81
	Naphthalene								0.388	0.309	0.368	0.713	1.01	1.296	1.761	0.83516	65.79
	Hexachloro-1,3-butadiene	0.248	0.212	0.244	0.381	0.551	0.684	0.929								0.46410	58.20
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	Purity (102	0.01062		Purity (ext)	0.01062				
Compound	CAS Number	Dilution Factor	0.02	0.05	0.1	0.25	0.5	0.75	1
1,1-Dichlor	1717-00-6	0.2	10	10	10	10	10	10	10
2-Bromo-1	421-06-7	0.2	10	10	10	10	10	10	10
Ethylene	74-85-1	0.01062	20.2	50.5	101	252.5	505	757.5	1010
Acetylene	74-86-2	0.01062	20.2	50.5	101	252.5	505	757.5	1010
Ethane	74-84-0	0.01062	20.2	50.5	101	252.5	505	757.5	1010
Halocarbor	811-97-2	0.01062	20.4	51	102	255	510	765	1020
Propylene	115-07-1	0.01062	19.8	49.5	99	247.5	495	742.5	990
Chlorodiflu	75-45-6	0.01062	21	52.5	105	262.5	525	787.5	1050
Propane	74-98-6	0.01062	19.6	49	98	245	490	735	980
Dichlorodif	75-71-8	0.01062	19.8	49.5	99	247.5	495	742.5	990
Chlorometl	74-87-3	0.01062	20	50	100	250	500	750	1000
Isobutane	75-28-5	0.01062	19.6	49	98	245	490	735	980
Halocarbor	76-14-2	0.01062	19.6	49	98	245	490	735	980
Acetaldehy	75-07-0	0.01062	20.4	51	102	255	510	765	1020
Vinyl chlori	75-01-4	0.01062	19.8	49.5	99	247.5	495	742.5	990
1-Butene/Is	106-98-9	0.01062	19.4	48.5	97	242.5	485	727.5	970
1,3-Butadie	106-99-0	0.01062	21	52.5	105	262.5	525	787.5	1050
n-Butane	106-97-8	0.01062	19.4	48.5	97	242.5	485	727.5	970
Methanol	67-56-1	0.01062	20.8	52	104	260	520	780	1040
trans-2-But	624-64-6	0.01062	19.4	48.5	97	242.5	485	727.5	970
Neopentan	463-82-1	0.01062	21	52.5	105	262.5	525	787.5	1050
Dichloroflu	75-43-4	0.01062	21.2	53	106	265	530	795	1060
Bromometl	74-83-9	0.01062	19.8	49.5	99	247.5	495	742.5	990
cis-2-Buter	590-18-1	0.01062	20.8	52	104	260	520	780	1040
Chloroetha	75-00-3	0.01062	19.8	49.5	99	247.5	495	742.5	990
Vinyl Brom	593-60-2	0.01062	20.6	51.5	103	257.5	515	772.5	1030
3-Methyl-1	563-45-1	0.01062	21	52.5	105	262.5	525	787.5	1050
Ethanol	64-17-5	0.01062	20.4	51	102	255	510	765	1020
Acetonitrile	75-05-8	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Acrolein	107-02-8	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Isopentane	78-78-4	0.01062	19.8	49.5	99	247.5	495	742.5	990
Trichloroflu	75-69-4	0.01062	20.6	51.5	103	257.5	515	772.5	1030
1-Pentene	109-67-1	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Acetone	67-64-1	0.01062	22	55	110	275	550	825	1100
2-Propanol	67-63-0	0.01062	24	60	120	300	600	900	1200
Acrylonitrile	107-13-1	0.01062	21	52.5	105	262.5	525	787.5	1050
n-Pentane	109-66-0	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Diethyl eth	60-29-7	0.01062	20.4	51	102	255	510	765	1020
Isoprene	78-79-5	0.01062	20.4	51	102	255	510	765	1020
trans-2-Pe	646-04-8	0.01062	21	52.5	105	262.5	525	787.5	1050
1,1-Dichlor	75-35-4	0.01062	20.8	52	104	260	520	780	1040
cis-2-Pente	627-20-3	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Methylene	75-09-2	0.01062	20.4	51	102	255	510	765	1020
2-Methyl-2	513-35-9	0.01062	21.4	53.5	107	267.5	535	802.5	1070
Carbon Dis	75-15-0	0.01062	20.6	51.5	103	257.5	515	772.5	1030
3-Chloropr	107-05-1	0.01062	21.2	53	106	265	530	795	1060
Halocarbor	76-13-1	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Neohexane	75-83-2	0.01062	20.4	51	102	255	510	765	1020

Cyclopente	142-29-0	0.01062	19.8	49.5	99	247.5	495	742.5	990
trans-1,2-D	156-60-5	0.01062	20.8	52	104	260	520	780	1040
4-Methyl-1·	691-37-2	0.01062	20.4	51	102	255	510	765	1020
1-Propanol	71-23-8	0.01062	24	60	120	300	600	900	1200
1,1-Dichlor	75-34-3	0.01062	21.2	53	106	265	530	795	1060
Cyclopente	287-92-3	0.01062	20.4	51	102	255	510	765	1020
2,3-Dimeth	79-29-8	0.01062	20.2	50.5	101	252.5	505	757.5	1010
Methyl tert·	1634-04-4	0.01062	20.4	51	102	255	510	765	1020
Isohexane	107-83-5	0.01062	20.8	52	104	260	520	780	1040
Vinyl Acete	108-05-4	0.01062	22	55	110	275	550	825	1100
cis-4-Meth	691-38-3	0.01062	20.8	52	104	260	520	780	1040
trans-4-Me	674-76-0	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Butyraldeh	123-72-8	0.01062	20.6	51.5	103	257.5	515	772.5	1030
2-Butanone	78-93-3	0.01062	21.8	54.5	109	272.5	545	817.5	1090
Chloroprer	126-99-8	0.01062	20.2	50.5	101	252.5	505	757.5	1010
3-Methylpe	96-14-0	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Fluorobenz	462-06-6	0.2	10	10	10	10	10	10	10
2-Methyl-1·	763-29-1	0.01062	20.4	51	102	255	510	765	1020
1-Hexene	592-41-6	0.01062	20.2	50.5	101	252.5	505	757.5	1010
cis-1,2-Dic	156-59-2	0.01062	21	52.5	105	262.5	525	787.5	1050
Bromochlo	74-97-5	0.01062	20.4	51	102	255	510	765	1020
2-Ethyl-1-b	760-21-4	0.01062	20	50	100	250	500	750	1000
n-Hexane	110-54-3	0.01062	21.2	53	106	265	530	795	1060
Chloroform	67-66-3	0.01062	20.8	52	104	260	520	780	1040
cis-3-Hexe	9/3/7642	0.01062	20.6	51.5	103	257.5	515	772.5	1030
trans-2-He	4050-45-7	0.01062	21	52.5	105	262.5	525	787.5	1050
2-Methyl-2·	625-27-4	0.01062	20.2	50.5	101	252.5	505	757.5	1010
cis-3-Meth	922-62-3	0.01062	21	52.5	105	262.5	525	787.5	1050
cis-2-Hexe	7688-21-3	0.01062	19.4	48.5	97	242.5	485	727.5	970
1,2-Dichlor	107-06-2	0.01062	21.2	53	106	265	530	795	1060
Methylcycl	96-37-7	0.01062	20.2	50.5	101	252.5	505	757.5	1010
2,4-Dimeth	108-08-7	0.01062	20.6	51.5	103	257.5	515	772.5	1030
1,1,1-Trich	71-55-6	0.01062	21.2	53	106	265	530	795	1060
Chlorobenz	3114-55-4	0.2	10	10	10	10	10	10	10
Methylcycl	693-89-0	0.01062	22	55	110	275	550	825	1100
Benzene	71-43-2	0.01062	21.4	53.5	107	267.5	535	802.5	1070
1-Butanol	71-36-3	0.01062	19.4	48.5	97	242.5	485	727.5	970
Carbon tet	56-23-5	0.01062	21	52.5	105	262.5	525	787.5	1050
Cyclohexa	110-82-7	0.01062	21.2	53	106	265	530	795	1060
Isoheptane	31394-54-4	0.01062	20.6	51.5	103	257.5	515	772.5	1030
2,3-Dimeth	565-59-3	0.01062	20.4	51	102	255	510	765	1020
Cyclohexe	110-83-8	0.01062	20.2	50.5	101	252.5	505	757.5	1010
3-Methylhe	589-34-4	0.01062	20.4	51	102	255	510	765	1020
1,2-Dichlor	78-87-5	0.01062	21.2	53	106	265	530	795	1060
Bromodich	75-27-4	0.01062	20.2	50.5	101	252.5	505	757.5	1010
Trichloroet	79-01-6	0.01062	20.2	50.5	101	252.5	505	757.5	1010
1,4-Dioxan	123-91-1	0.01062	20.8	52	104	260	520	780	1040
1-Heptene	592-76-7	0.01062	20	50	100	250	500	750	1000
2,2,4-Trim	540-84-1	0.01062	20.4	51	102	255	510	765	1020
2-Chlorope	625-29-6	0.01062	20.4	51	102	255	510	765	1020
trans-3-He	14686-14-7	0.01062	21.4	53.5	107	267.5	535	802.5	1070
n-Heptane	142-82-5	0.01062	20.6	51.5	103	257.5	515	772.5	1030

cis-3-Hepte	10/6/7642	0.01062	21.4	53.5	107	267.5	535	802.5	1070
trans-2-He	14686-13-(	0.01062	20.6	51.5	103	257.5	515	772.5	1030
2,4,4-Trime	107-39-1	0.01062	20.4	51	102	255	510	765	1020
cis-1,3-Dic	10061-01-!	0.01062	20.8	52	104	260	520	780	1040
Methylisob	108-10-1	0.01062	21.8	54.5	109	272.5	545	817.5	1090
Methylcycl	108-87-2	0.01062	20.6	51.5	103	257.5	515	772.5	1030
2,4,4-Trime	107-40-4	0.01062	20.2	50.5	101	252.5	505	757.5	1010
2,5-Dimeth	592-13-2	0.01062	20.8	52	104	260	520	780	1040
2,2,3-Trime	564-02-3	0.01062	20.6	51.5	103	257.5	515	772.5	1030
trans-1,3-D	10061-02-(	0.01062	22	55	110	275	550	825	1100
1,1,2-Trich	79-00-5	0.01062	21.4	53.5	107	267.5	535	802.5	1070
2,3,4-Trime	565-75-3	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Toluene-d8	2037-26-5	0.2	10	10	10	10	10	10	10
Toluene	108-88-3	0.01062	21.8	54.5	109	272.5	545	817.5	1090
1,4-Dichlor	110-56-5	0.2	10	10	10	10	10	10	10
2-Hexanon	591-78-6	0.01062	21.4	53.5	107	257.5	535	802.5	1070
2-Methylhe	592-27-8	0.01062	20.6	51.5	103	267.5	515	772.5	1030
1-Methylcy	591-49-1	0.01062	21.4	53.5	107	267.5	535	802.5	1070
Dibromoch	124-48-1	0.01062	20.8	52	104	260	520	780	1040
3-Methylhe	589-81-1	0.01062	20.4	51	102	255	510	765	1020
Hexanal	66-25-1	0.01062	20.6	51.5	103	257.5	515	772.5	1030
1,2-Dibrom	106-93-4	0.01062	21.6	54	108	270	540	810	1080
2,2,5-Trime	3522-94-9	0.01062	21.8	54.5	109	272.5	545	817.5	1090
1-Octene	111-66-0	0.01062	20	50	100	250	500	750	1000
n-Octane	111-65-9	0.01062	20.6	51.5	103	257.5	515	772.5	1030
Tetrachlor	127-18-4	0.01062	21.2	53	106	265	530	795	1060
cis-2-Octe	4/8/7642	0.01062	21	52.5	105	262.5	525	787.5	1050
Chloroben	108-90-7	0.01062	21.6	54	108	270	540	810	1080
Ethylbenze	100-41-4	0.01062	21.6	54	108	270	540	810	1080
m/p-Xylene	106-42-3	0.01062	42.4	106	212	530	1060	1590	2120
Bromoform	75-25-2	0.01062	21.2	53	106	265	530	795	1060
Butyl Acryl	141-32-2	0.01062	22.8	57	114	285	570	855	1140
Styrene	100-42-5	0.01062	21.8	54.5	109	272.5	545	817.5	1090
Heptanal	111-71-7	0.01062	20.6	51.5	103	257.5	515	772.5	1030
1,1,2,2-Tet	79-34-5	0.01062	21.4	53.5	107	267.5	535	802.5	1070
o-Xylene	95-47-6	0.01062	21.4	53.5	107	267.5	535	802.5	1070
1-Nonene	124-11-8	0.01062	19.4	48.5	97	242.5	485	727.5	970
cis-4-None	10405-84-2	0.01062	22.8	57	114	285	570	855	1140
trans-4-No	10405-85-3	0.01062	19.2	48	96	240	480	720	960
n-Nonane	111-84-2	0.01062	20.4	51	102	255	510	765	1020
1,4-Bromo	460-00-4	0.2	10	10	10	10	10	10	10
Isopropylbe	98-82-8	0.01062	19.8	49.5	99	247.5	495	742.5	990
Benzaldeh	100-52-7	0.01062	20.8	52	104	260	520	780	1040
alpha-Pine	80-56-8	0.01062	21.4	53.5	107	267.5	535	802.5	1070
o/m-Chlorc	2/3-CT	0.01062	42.8	107	214	535	1070	1605	2140
p-Chlorotol	106-43-4	0.01062	21.6	54	108	270	540	810	1080
n-Propylbe	103-65-1	0.01062	20	50	100	250	500	750	1000
m-Ethyltolu	620-14-4	0.01062	20	50	100	250	500	750	1000
p-Ethyltolu	622-96-8	0.01062	20.2	50.5	101	252.5	505	757.5	1010
1,3,5-Trime	108-67-8	0.01062	21.8	54.5	109	272.5	545	817.5	1090
o-Ethyltolu	611-14-3	0.01062	19.8	49.5	99	247.5	495	742.5	990
beta-Pinen	127-91-3	0.01062	15	37.5	75	187.5	375	562.5	750

1,2,4-Trime	95-63-6	0.01062	21.8	54.5	109	272.5	545	817.5	1090
tert-Butylbe	98-06-6	0.01062	21.4	53.5	107	267.5	535	802.5	1070
1-Decene	872-05-9	0.01062	21.4	53.5	107	267.5	535	802.5	1070
Benzyl chlo	100-44-7	0.01062	21.8	54.5	109	272.5	545	817.5	1090
m-Dichloro	541-73-1	0.01062	21.8	54.5	109	272.5	545	817.5	1090
n-Decane	124-18-5	0.01062	20.6	51.5	103	257.5	515	772.5	1030
p-Dichlorob	106-46-7	0.01062	21.6	54	108	270	540	810	1080
Isobutylber	538-93-2	0.01062	22	55	110	275	550	825	1100
1,2,3-Trime	526-73-8	0.01062	19.6	49	98	245	490	735	980
p-Isopropyl	99-87-6	0.01062	22	55	110	275	550	825	1100
o-Dichlorob	95-50-1	0.01062	21.6	54	108	270	540	810	1080
Limonene	138-86-3	0.01062	21	52.5	105	262.5	525	787.5	1050
Indan	496-11-7	0.01062	21	52.5	105	262.5	525	787.5	1050
Indene	95-13-6	0.01062	20.6	51.5	103	257.5	515	772.5	1030
m-Diethylb	141-93-5	0.01062	19.4	48.5	97	242.5	485	727.5	970
p-Diethylbe	105-05-5	0.01062	19.8	49.5	99	247.5	495	742.5	990
n-Butylben	104-51-8	0.01062	22.2	55.5	111	277.5	555	832.5	1110
1-Undecen	821-95-4	0.01062	20.8	52	104	260	520	780	1040
n-Undecan	1120-21-4	0.01062	20.4	51	102	255	510	765	1020

Compound List Report VMSC

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
Total Cpnds : 174

DMW 11/9/11

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,1-Dichloro-1-Fluoroethane	81	11.84	1.000	A	3	A	B
2	S	2-Bromo-1,1,1-trifluoroethane	83	10.70	0.903	A	3	A	B
3	T	Ethylene	26	3.79	0.320	A	3	A	B
4	T	Acetylene	26	3.89	0.329	A	3	A	B
5	T	Ethane	26	3.98	0.336	A	2	A	B
6	T	Halocarbon 134A	69	4.77	0.403	A	3	A	B
7	T	Propylene	41	5.54	0.468	A	3	A	B
8	T	Chlorodifluoromethane	51	5.90	0.498	A	3	A	B
9	T	Propane	43	5.69	0.481	A	3	A	B
10	T	Dichlorodifluoromethane	85	6.18	0.522	A	3	A	B
11	T	Chloromethane	50	7.00	0.591	A	3	A	B
12	T	Isobutane	43	7.64	0.645	A	3	A	B
13	T	Halocarbon 114	85	7.84	0.662	A	3	A	B
14	T	Acetaldehyde	44	7.83	0.661	A	3	A	B
15	T	Vinyl chloride	62	8.07	0.681	A	3	A	B
16	T	1-Butene/Isobutene	41	8.50	0.717	A	3	A	B
17	T	1,3-Butadiene	39	8.60	0.726	A	3	A	B
18	T	n-Butane	43	8.76	0.740	A	3	A	B
19	T	Methanol	31	8.62	0.728	A	1	A	B
20	T	trans-2-Butene	41	9.13	0.771	A	3	A	B
21	T	Neopentane	57	9.18	0.775	A	3	A	B
22	T	Dichlorofluoromethane	67	10.42	0.880	A	3	A	B
23	T	Bromomethane	94	9.29	0.785	A	3	A	B
24	T	cis-2-Butene	41	9.60	0.810	A	3	A	B
25	T	Chloroethane	64	9.86	0.833	A	3	A	B
26	T	Vinyl bromide	106	10.64	0.898	A	3	A	B
27	T	3-Methyl-1-butene	55	10.67	0.901	A	3	A	B
28	T	Ethanol	45	10.69	0.902	A	2	A	B
29	T	Acetonitrile	41	10.84	0.915	A	3	A	B
30	T	Acrolein	56	11.08	0.935	A	3	A	B
31	T	Isopentane	41	11.29	0.953	A	3	A	B
32	T	Trichlorofluoromethane	101	11.56	0.976	A	3	A	B
33	T	1-Pentene	42	11.87	1.002	A	3	A	B
34	T	Acetone	43	11.36	0.959	A	2	A	B
35	T	2-Propanol	45	12.06	1.018	A	3	A	B
36	T	Acrylonitrile	52	12.27	1.036	A	3	A	B
37	T	n-Pentane	43	12.29	1.037	A	3	A	B
38	T	Diethyl ether	74	12.45	1.052	A	3	A	B
39	T	Isoprene	67	12.46	1.052	A	3	A	B
40	T	trans-2-Pentene	55	12.61	1.065	A	3	A	B
41	T	1,1-Dichloroethene	61	12.70	1.072	A	3	A	B
42	T	cis-2-Pentene	55	12.91	1.090	A	3	A	B
43	T	Methylene chloride	49	13.03	1.100	A	3	A	B
44	T	2-Methyl-2-butene	55	13.09	1.105	A	3	A	B
45	T	Carbon Disulfide	76	13.15	1.110	A	1	A	B
46	T	3-Chloropropene	41	13.20	1.114	A	2	A	B
47	T	Halocarbon 113	151	13.50	1.140	A	3	A	B
48	T	Neohexane	43	13.66	1.153	A	3	A	B
49	T	Cyclopentene	67	14.37	1.213	A	3	A	B
50	T	trans-1,2-Dichloroethene	61	14.52	1.226	A	3	A	B
51	T	4-Methyl-1-pentene	43	14.56	1.230	A	3	A	B
52	T	1-Propanol	59	14.53	1.227	A	3	A	B
53	T	1,1-Dichloroethane	63	14.81	1.251	A	3	A	B
54	T	Cyclopentane	42	14.81	1.251	A	3	A	B
55	T	2,3-Dimethylbutane	43	14.91	1.259	A	3	A	B
56	T	Methyl tert-butyl ether	73	14.98	1.265	A	3	A	B
57	T	Isohexane	42	15.12	1.277	A	3	A	B
58	T	Vinyl acetate	43	15.22	1.285	A	2	A	B
59	T	cis-4-Methyl-2-pentene	69	15.06	1.272	A	3	A	B
60	T	trans-4-Methyl-2-pentene	69	15.20	1.283	A	3	A	B
61	T	Butyraldehyde	72	15.27	1.289	A	3	A	B
62	T	2-Butanone	43	15.51	1.309	A	3	A	B
63	T	Chloroprene	53	15.69	1.325	A	3	A	B
64	T	3-Methylpentane	57	15.72	1.327	A	3	A	B
65	S	Fluorobenzene	96	19.17	1.619	A	2	A	B

66	T	2-Methyl-1-pentene	56	15.95	1.347	A	3	A	B
67	T	1-Hexene	41	15.99	1.350	A	3	A	B
68	T	cis-1,2-Dichloroethene	61	16.11	1.360	A	3	A	B
69	T	Bromochloromethane	130	16.35	1.380	A	3	A	B
70	T	2-Ethyl-1-butene	69	16.47	1.391	A	3	A	B
71	T	n-Hexane	57	16.47	1.391	A	3	A	B
72	T	Chloroform	83	16.58	1.400	A	3	A	B
73	T	cis-3-Hexene	55	16.47	1.391	A	3	A	B
74	T	trans-2-Hexene	55	16.69	1.409	A	3	A	B
75	T	2-Methyl-2-pentene	41	16.69	1.409	A	3	A	B
76	T	cis-3-Methyl-2-pentene	69	16.86	1.424	A	3	A	B
77	T	cis-2-Hexene	55	17.08	1.442	A	3	A	B
78	T	Methylcyclopentane	56	17.60	1.486	A	3	A	B
79	T	1,2-Dichloroethane	62	17.63	1.488	A	3	A	B
80	T	2,4-Dimethylpentane	43	17.78	1.502	A	3	A	B
81	T	1,1,1-Trichloroethane	97	17.97	1.518	A	3	A	B
82	I	Chlorobenzene-d5	117	26.27	1.000	A	3	A	B
83	T	Methylcyclopentene	67	18.67	0.710	A	3	A	B
84	T	Benzene	78	18.65	0.710	A	3	A	B
85	T	Carbon tetrachloride	117	18.87	0.718	A	3	A	B
86	T	1-Butanol	56	18.82	0.716	A	3	A	B
87	T	Cyclohexane	56	19.05	0.725	A	3	A	B
88	T	Isoheptane	43	19.43	0.739	A	3	A	B
89	T	2,3-Dimethylpentane	56	19.51	0.742	A	3	A	B
90	T	Cyclohexene	67	19.81	0.754	A	3	A	B
91	T	3-Methylhexane	43	19.81	0.754	A	3	A	B
92	T	1,2-Dichloropropane	63	19.91	0.758	A	3	A	B
93	T	Bromodichloromethane	83	20.23	0.770	A	3	A	B
94	T	Trichloroethene	130	20.30	0.773	A	3	A	B
95	T	1,4-Dioxane	88	20.34	0.774	A	3	A	B
96	T	1-Heptene	55	20.38	0.776	A	3	A	B
97	T	2,2,4-Trimethylpentane	57	20.38	0.776	A	3	A	B
98	T	2-Chloropentane	70	20.61	0.784	A	3	A	B
99	T	trans-3-Heptene	41	20.85	0.794	A	3	A	B
100	T	n-Heptane	71	20.85	0.794	A	3	A	B
101	T	cis-3-Heptene	41	20.85	0.794	A	3	A	B
102	T	trans-2-Heptene	55	21.08	0.802	A	3	A	B
103	T	2,4,4-Trimethyl-1-pentene	57	21.30	0.811	A	3	A	B
104	T	cis-1,3-Dichloropropene	75	21.68	0.825	A	3	A	B
105	T	Methylisobutylketone	43	21.77	0.829	A	3	A	B
106	T	Methylcyclohexane	83	21.77	0.828	A	3	A	B
107	T	2,4,4-Trimethyl-2-pentene	55	22.06	0.840	A	3	A	B
108	T	2,5-Dimethylhexane	57	22.22	0.846	A	3	A	B
109	T	2,2,3-Trimethylpentane	57	22.32	0.850	A	3	A	B
110	T	trans-1,3-Dichloropropene	75	22.55	0.858	A	3	A	B
111	T	1,1,2-Trichloroethane	97	22.78	0.867	A	3	A	B
112	T	2,3,4-Trimethylpentane	43	23.01	0.876	A	3	A	B
113	S	Toluene-d8	98	23.06	0.878	A	2	A	B
114	T	Toluene	91	23.22	0.884	A	3	A	B
115	S	1,4-Dichlorobutane	90	28.15	1.072	A	3	A	B
116	T	2-Hexanone	43	23.76	0.904	A	3	A	B
117	T	2-Methylheptane	43	23.66	0.900	A	3	A	B
118	T	1-Methylcyclohexene	81	23.64	0.900	A	3	A	B
119	T	Dibromochloromethane	129	23.91	0.910	A	3	A	B
120	T	3-Methylheptane	85	23.97	0.913	A	3	A	B
121	T	Hexanal	44	24.09	0.917	A	3	A	B
122	T	1,2-Dibromoethane	107	24.30	0.925	A	3	A	B
123	T	2,2,5-Trimethylhexane	57	24.42	0.930	A	3	A	B
124	T	1-Octene	55	24.53	0.934	A	3	A	B
125	T	n-Octane	43	25.04	0.953	A	3	A	B
126	T	Tetrachloroethene	164	25.14	0.957	A	3	A	B
127	T	cis-2-Octene	55	25.53	0.972	A	3	A	B
128	T	Chlorobenzene	112	26.35	1.003	A	3	A	B
129	T	Ethylbenzene	91	27.09	1.031	A	3	A	B
130	T	m/p-Xylene	91	27.46	1.045	A	3	A	B
131	T	Bromoform	173	27.49	1.046	A	3	A	B
132	T	Butyl acrylate	55	28.02	1.066	A	3	A	B
133	T	Heptanal	70	28.21	1.074	A	3	A	B
134	T	Styrene	104	28.12	1.070	A	3	A	B
135	T	1,1,2,2-Tetrachloroethane	83	28.32	1.078	A	3	A	B
136	T	o-Xylene	91	28.33	1.078	A	3	A	B
137	T	1-Nonene	56	28.47	1.083	A	3	A	B
138	T	cis-4-Nonene	55	28.58	1.088	A	3	A	B
139	T	trans-4-Nonene	55	28.74	1.094	A	3	A	B

140	T	n-Nonane	43	28.93	1.101	A	3	A	B
141	S	1,4-Bromofluorobenzene	95	29.23	1.113	A	3	A	B
142	T	Isopropylbenzene	105	29.54	1.125	A	3	A	B
143	T	Benzaldehyde	77	30.22	1.150	A	3	A	B
144	T	alpha-Pinene	93	30.33	1.155	A	3	A	B
145	T	o/m-Chlorotoluene	91	30.48	1.160	A	3	A	B
146	T	p-Chlorotoluene	91	30.64	1.166	A	3	A	B
147	T	n-Propylbenzene	91	30.64	1.166	A	3	A	B
148	T	m-Ethyltoluene	105	30.90	1.176	A	3	A	B
149	T	p-Ethyltoluene	105	30.98	1.179	A	3	A	B
150	T	1,3,5-Trimethylbenzene	105	31.18	1.187	A	3	A	B
151	T	o-Ethyltoluene	105	31.57	1.202	A	3	A	B
152	T	beta-Pinene	93	31.85	1.212	A	3	A	B
153	T	1,2,4-Trimethylbenzene	105	32.10	1.222	A	3	A	B
154	T	tert-Butylbenzene	119	32.10	1.222	A	3	A	B
155	T	1-Decene	56	32.10	1.222	A	3	A	B
156	T	Benzyl chloride	91	32.37	1.232	A	3	A	B
157	T	m-Dichlorobenzene	146	32.37	1.232	A	3	A	B
158	T	n-Decane	57	32.54	1.239	A	3	A	B
159	T	p-Dichlorobenzene	146	32.55	1.239	A	3	A	B
160	T	Isobutylbenzene	91	32.64	1.242	A	3	A	B
161	T	1,2,3-Trimethylbenzene	105	33.10	1.260	A	3	A	B
162	T	p-Isopropyltoluene	119	33.11	1.260	A	3	A	B
163	T	o-Dichlorobenzene	146	33.36	1.270	A	3	A	B
164	T	Limonene	68	33.53	1.276	A	3	A	B
165	T	Indan	117	33.55	1.277	A	3	A	B
166	T	Indene	115	33.78	1.286	A	3	A	B
167	T	m-Diethylbenzene	105	33.98	1.293	A	3	A	B
168	T	p-Diethylbenzene	119	34.21	1.302	A	3	A	B
169	T	n-Butylbenzene	91	34.21	1.302	A	3	A	B
170	T	1-Undecene	55	35.56	1.354	A	3	A	B
171	T	n-Undecane	57	35.89	1.366	A	3	A	B
172	T	1,2,4-Trichlorobenzene	180	37.88	1.442	A	3	A	B
173	T	Naphthalene	128	38.07	1.449	A	3	A	B
174	T	Hexachloro-1,3-butadiene	225	38.85	1.479	A	3	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

CA111107.M Tue Nov 08 14:30:06 2011 DAH

INSTRUMENT VMSC ANALYST / DATE: KGK 11/7/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: 11/7/11 Batch ID: NA

DAILY CHECK ✓	INSERT: CHANGED (Y/N)	SEPTA: CHANGED (Y/N)	COLUMN: CHANGED (Y/N)	AUTOSAMPLER MAINT. NA
M. PUMP OIL ✓	TURBO OIL NO	FILAMENT CHANGE NO	OTHER NA	
NO MAINTENANCE REQUIRED:			RETURNED TO SERVICE:	

DAILY CHECK includes sufficient carrier and detector gases, correct column flow/pressure, condition of septa, etc. Glass insert, septa, column and gases changed as needed. Source cleaned as needed. Mechanical pump oil and turbomolecular pump oil changed semiannually (usually on service contract). OTHER is for minor maintenance performed or for reference to Repair Log for major repairs.

MASS SPECTROMETER CONDITIONS:

Tune File: C110705.U Elect Mult. 1518 volts Sampling Rate 1 6 Scan Range 1 23.0-27.0

Sampling Rate 2 4 Scan Range 2 29.0-175 Sampling Rate 3 3 Scan Range 3 33-275

Tuning Performance (circle one): BFB Autotune Other Interface (circle one): Direct Jet Separator Other

GC PROGRAM:

GC Meth. CA111026.M Initial Temp. -50 °C Final Hold 0.0 min Inj. Temp. 100 °C Init.Hold 3.0 min

Carrier Gas: Helium Ramp 1 15.0 °C/min to 0°C Flow/Pressure 1.6 mL/min Final Temp. 240 °C Ramp 2 5°C to 150°C

Ramp 3 35°C to 240°C

Other Program or Special Conditions: NA

ICVs reprocessed under CA111107.M

GC COLUMN:

Column ID#: MSVOCID014 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: CC-328925 (AT01594)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	WARMUP	RA1768	0.5	8	MC110701	0.01062	VOC-VSP-34-65
2	-CCV	↓	↓	↓	02	↓	↓
3	-BS1	CW1040	↓	13	03	0.01059	VOC-VSP-34-61
4	-BSD1	↓	↓	↓	04	↓	↓
5	-BLK1	HL0936	↓	2	05	1.0	
6	WARMUP	RA1768	↓	8	06	0.01062	VOC-VSP-34-65
7	CCAL	↓	↓	↓	07	↓	↓
8	MB	HL0936	↓	2	08	1.0	
9	PREFLUSH	RA1768	0.1	8	09	0.01062	VOC-VSP-34-65
10	CCV Blend 20	↓	0.02	↓	10	↓	↓

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
11	CCV Blend 50	RA1768	0.05	8	MC110711	0.01062	VOC-VSP-34-65
12	100		0.10		12		
13	250		0.25		13		
14	500		0.50		14		
15	750		0.75		15		
16	1000		1.0		16		
17.	MB	HL0936	0.5	2	17	1.0	
18	ICV 102	RA1748	1	7	18	0.01057	VOC-VSP-34-64
19	ICV LCS CW1640	~~0.01059~~ VOC 11/7/11		13	19	0.01059	VOC-VSP-34.61
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

VOC 11/7/11

Sequence Name: C:\HPCHEM\1\SEQUENCE\CL111107.S
Comment:
Operator: KDK
Data Path: C:\MSVOC3\HPCHEM\3\DATA\C111107\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	MC110701	CA111026	WARMUP
2	Sample	2	MC110702	CA111026	-CCV1,,,,0.01062;CCAL
3	Sample	3	MC110703	CA111026	-BS1,,,,0.01059;LCS
4	Sample	4	MC110704	CA111026	-BSD1,,,,0.01059;LCS
5	Sample	5	MC110705	CA111026	-BLK1
6	Sample	6	MC110706	CA111026	WARMUP,,,,0.01062;CCAL
7	Sample	7	MC110707	CA111026	CCAL,,,,0.01062;CCAL
8	Sample	8	MC110708	CA111026	MB
9	Sample	9	MC110709	CA111026	PREFLUSH 100,,,,0.01062;CCAL
10	Sample	10	MC110710	CA111026	CCV BLEND 20,,,,0.01062;CCAL
11	Sample	11	MC110711	CA111026	CCV BLEND 50,,,,0.01062;CCAL
12	Sample	12	MC110712	CA111026	CCV BLEND 100,,,,0.01062;CCAL
13	Sample	13	MC110713	CA111026	CCV BLEND 250,,,,0.01062;CCAL
14	Sample	14	MC110714	CA111026	CCV BLEND 500,,,,0.01062;CCAL
15	Sample	15	MC110715	CA111026	CCV BLEND 750,,,,0.01062;CCAL
16	Sample	16	MC110716	CA111026	CCV BLEND 1000,,,,0.01062;CCA
17	Sample	17	MC110717	CA111026	MB
18	Sample	18	MC110718	CA111026	ICV CCV,,,,0.01057;CCAL
19	Sample	19	MC110719	CA111026	ICV LCS,,,,0.01059;LCS
20					

----------SEQUENCE TABLE ----------

Sequence Name: C:\Smart\C111107.SEQ
Date: 11-08-2011
Time: 08:49:12
Int. Std Volume: 200 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	8	500	0	C:\Smart\C111025A.MPT	12:00
-CCV1	1	8	500	0	C:\Smart\C111025A.MPT	12:00
-BS1	1	13	500	0	C:\Smart\C111025A.MPT	12:00
-BSD1	1	13	500	0	C:\Smart\C111025A.MPT	12:00
-BLK1	1	2	500	0	C:\Smart\C111025A.MPT	12:00
WARMUP	1	8	500	0	C:\Smart\C111025A.MPT	12:00
CCAL	1	8	500	0	C:\Smart\C111025A.MPT	12:00
MB	1	2	500	0	C:\Smart\C111025A.MPT	12:00
PREFLUSH	1	8	100	0	C:\Smart\C111025A.MPT	12:00
CCV BLEND 20	1	8	20	0	C:\Smart\C111025A.MPT	12:00
CCV BLEND 50	1	8	50	0	C:\Smart\C111025A.MPT	12:00
CCV BLEND 100	1	8	100	0	C:\Smart\C111025A.MPT	12:00
CCV BLEND 250	1	8	250	0	C:\Smart\C111025A.MPT	12:00
CCV BLEND 500	1	8	500	0	C:\Smart\C111025A.MPT	12:00
CCV BLEND 750	1	8	750	0	C:\Smart\C111025A.MPT	12:00
CCV BLEND 1000	1	8	1000	0	C:\Smart\C111025A.MPT	12:00
MB	1	2	500	0	C:\Smart\C111025A.MPT	12:00
ICV CCV	1	7	500	0	C:\Smart\C111025A.MPT	12:00
ICV LCS	1	13	500	0	C:\Smart\C111025A.MPT	12:00

BFB

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110710.D Vial: 10
Acq On : 7 Nov 2011 9:46 pm Operator: KDK
Sample : CCV BLEND 20,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.209 to 29.248 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.7	11909	PASS
75	95	30	66	53.8	28248	PASS
95	95	100	100	100.0	52542	PASS
96	95	5	9	6.6	3451	PASS
173	174	0.00	2	0.4	160	PASS
174	95	50	120	68.1	35794	PASS
175	174	4	9	7.5	2676	PASS
176	174	93	101	97.3	34820	PASS
177	176	5	9	6.4	2238	PASS

MC110710.D CA111107.M Tue Nov 08 11:23:48 2011 KDK

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110710.D Vial: 10
Acq On : 7 Nov 2011 9:46 pm Operator: KDK
Sample : CCV BLEND 20,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:18 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.86	81	323809	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.28	117	253005	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.71	83	135500	2.0170 ppbV	0.01
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	19.18	96	348950	1.9379 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.00%	
113) Toluene-d8	23.06	98	288196	2.1213 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
115) 1,4-Dichlorobutane	28.15	90	17428	1.7267 ppbV	0.00
Spiked Amount 2.000			Recovery	= 86.50%	
141) 1,4-Bromofluorobenzene	29.23	95	176058	1.9600 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	

Target Compounds						Qvalue
3) Ethylene	3.79	26	1920	0.1772 ppbV	S	94
4) Acetylene	3.89	26	3042	0.2070 ppbV	S	98
5) Ethane	3.98	26	1669	0.2269 ppbV	S	98
7) Propylene	5.55	41	4781	0.1758 ppbV	S	95
9) Propane	5.70	43	2450	0.1954 ppbV	S	89
10) Dichlorodifluoromethane	6.20	85	29485	0.2035 ppbV	S	98
11) Chloromethane	7.02	50	6684	0.2026 ppbV	S	96
12) Isobutane	7.66	43	13161	0.1793 ppbV	S	95
13) Halocarbon 114	7.87	85	26124	0.2028 ppbV	S	99
14) Acetaldehyde	8.23	44	1853m	0.1266 ppbV	S	
15) Vinyl chloride	8.08	62	6832	0.1865 ppbV	S	98
16) 1-Butene/Isobutene	8.51	41	9787	0.2029 ppbV	S	94
17) 1,3-Butadiene	8.62	39	6337	0.2169 ppbV	S	94
18) n-Butane	8.77	43	12129	0.2054 ppbV	S	96
19) Methanol	8.84	31	2487m	0.3029 ppbV	S	
20) trans-2-Butene	9.14	41	9165	0.2130 ppbV	S	99
23) Bromomethane	9.31	94	7565	0.2045 ppbV	S	97
24) cis-2-Butene	9.61	41	9864	0.2341 ppbV	S	98
25) Chloroethane	9.89	64	4178	0.2235 ppbV	S	95
26) Vinyl bromide	10.66	106	9051	0.2544 ppbV	S	94
27) 3-Methyl-1-butene	10.69	55	18122	0.2288 ppbV	S	98
28) Ethanol	10.91	45	1932m	0.2062 ppbV	S	
29) Acetonitrile	11.04	41	3365m	0.1402 ppbV	S	
30) Acrolein	11.23	56	628m	0.0813 ppbV	S	
31) Isopentane	11.31	41	9915	0.2022 ppbV	S	97
32) Trichlorofluoromethane	11.58	101	33965	0.2245 ppbV	S	97
33) 1-Pentene	11.88	42	10488	0.2262 ppbV	S	96
34) Acetone	11.64	43	7679m	0.1394 ppbV	S	
36) Acrylonitrile	12.38	52	1899	0.1226 ppbV	S	87
37) n-Pentane	12.31	43	13794	0.2237 ppbV	S	97
39) Isoprene	12.48	67	8199	0.2065 ppbV	S	97
40) trans-2-Pentene	12.63	55	14726	0.2241 ppbV	S	98
41) 1,1-Dichloroethene	12.72	61	14506	0.2359 ppbV	S	98
42) cis-2-Pentene	12.93	55	13896	0.2102 ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110710.D Vial: 10
Acq On : 7 Nov 2011 9:46 pm Operator: KDK
Sample : CCV BLEND 20,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:18 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	Methylene chloride	13.05	49	10732	0.2211 ppbV	S	98
44)	2-Methyl-2-butene	13.11	55	14917	0.2131 ppbV	S	97
45)	Carbon Disulfide	13.16	76	24929	0.2360 ppbV	S	98
46)	3-Chloropropene	13.22	41	9028	0.2143 ppbV	S	95
47)	Halocarbon 113	13.52	151	15816	0.2081 ppbV	S	98
48)	Neohexane	13.68	43	11677	0.1890 ppbV	S	97
49)	Cyclopentene	14.38	67	14976	0.1941 ppbV	S	97
50)	trans-1,2-Dichloroethene	14.55	61	12689	0.2076 ppbV	S	98
51)	4-Methyl-1-pentene	14.59	43	12646	0.1980 ppbV	S	98
53)	1,1-Dichloroethane	14.84	63	17715	0.2354 ppbV	S	98
54)	Cyclopentane	14.83	42	14524	0.2061 ppbV	S	97
55)	2,3-Dimethylbutane	14.94	43	19342	0.1970 ppbV	S	92
56)	Methyl tert-butyl ether	15.08	73	12595m	0.1237 ppbV	S	
57)	Isohexane	15.14	42	11324	0.2192 ppbV	S	92
58)	Vinyl acetate	15.27	43	8939	0.1201 ppbV	S	99
62)	2-Butanone	15.66	43	6873m	0.1215 ppbV	S	
63)	Chloroprene	15.71	53	14211	0.1880 ppbV	S	97
64)	3-Methylpentane	15.74	57	15749	0.2060 ppbV	S	95
66)	2-Methyl-1-pentene	15.97	56	12985m	0.1914 ppbV	S	
67)	1-Hexene	16.00	41	9286m	0.1969 ppbV	S	
68)	cis-1,2-Dichloroethene	16.13	61	13041	0.2186 ppbV	S	95
69)	Bromochloromethane	16.36	130	8148	0.1980 ppbV	S	95
71)	n-Hexane	16.49	57	13141	0.2039 ppbV	S	97
72)	Chloroform	16.60	83	23510	0.2311 ppbV	S	98
74)	trans-2-Hexene	16.71	55	15820	0.2114 ppbV	S	92
77)	cis-2-Hexene	17.10	55	11876	0.1819 ppbV	S	97
78)	Methylcyclopentane	17.62	56	15213	0.1895 ppbV	S	99
79)	1,2-Dichloroethane	17.64	62	18009	0.2445 ppbV	S	97
80)	2,4-Dimethylpentane	17.81	43	20112	0.2038 ppbV	S	93
81)	1,1,1-Trichloroethane	18.00	97	27718	0.2197 ppbV	S	98
84)	Benzene	18.67	78	23454	0.2679 ppbV	S	98
85)	Carbon tetrachloride	18.89	117	30493	0.2595 ppbV	S	95
86)	1-Butanol	18.91	56	3325	0.2188 ppbV	S	94
87)	Cyclohexane	19.06	56	13593	0.2404 ppbV	S	94
88)	Isoheptane	19.43	43	21659	0.2409 ppbV	S	96
89)	2,3-Dimethylpentane	19.52	56	17577	0.2451 ppbV	S	97
91)	3-Methylhexane	19.82	43	16635	0.2352 ppbV	S	97
92)	1,2-Dichloropropane	19.93	63	6579	0.2534 ppbV	S	95
93)	Bromodichloromethane	20.24	83	18427	0.2501 ppbV	S	97
94)	Trichloroethene	20.31	130	13507	0.2316 ppbV	S	97
95)	1,4-Dioxane	20.41	88	4074m	0.3604 ppbV	S	
97)	2,2,4-Trimethylpentane	20.39	57	44349	0.2390 ppbV	S	97
98)	2-Chloropentane	20.62	70	6954	0.1801 ppbV	S	92
100)	n-Heptane	20.86	71	8226	0.2305 ppbV	S	94
104)	cis-1,3-Dichloropropene	21.70	75	7794	0.1955 ppbV	S	98
105)	Methylisobutylketone	21.83	43	11157m	0.1760 ppbV	S	
106)	Methylcyclohexane	21.78	83	15683	0.2246 ppbV	S	88
110)	trans-1,3-Dichloropropene	22.55	75	6140	0.1644 ppbV	S	97
111)	1,1,2-Trichloroethane	22.79	97	5373	0.1959 ppbV	S	98
112)	2,3,4-Trimethylpentane	23.02	43	25376	0.2367 ppbV	S	93

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110710.D Vial: 10
Acq On : 7 Nov 2011 9:46 pm Operator: KDK
Sample : CCV BLEND 20,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:18 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

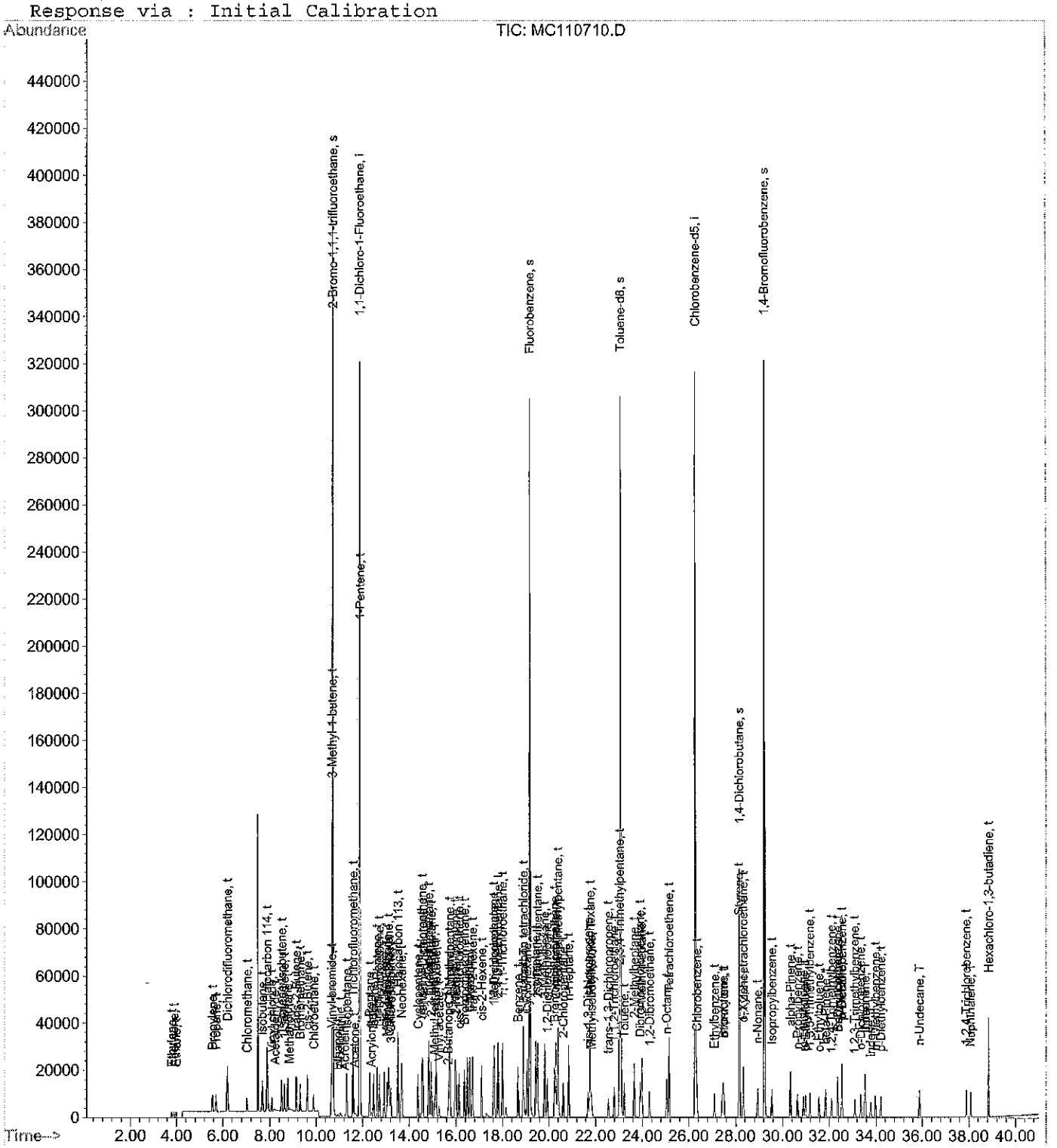
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
114)	Toluene	23.23	91	14890	0.1976	ppbV	S	96
117)	2-Methylheptane	23.66	43	12046	0.1955	ppbV	S	96
119)	Dibromochloromethane	23.91	129	12097	0.2054	ppbV	S	98
120)	3-Methylheptane	23.97	85	7492	0.1898	ppbV	S	86
122)	1,2-Dibromoethane	24.31	107	11112	0.2211	ppbV	S	99
125)	n-Octane	25.04	43	9356	0.1633	ppbV	S	88
126)	Tetrachloroethene	25.15	164	10508	0.2482	ppbV	S	93
128)	Chlorobenzene	26.35	112	13011	0.2111	ppbV	S	94
129)	Ethylbenzene	27.09	91	10840	0.1322	ppbV	S	96
130)	m/p-Xylene	27.46	91	19805m	0.2782	ppbV	S	
131)	Bromoform	27.49	173	6847	0.1914	ppbV	S	97
134)	Styrene	28.13	104	6281	0.1342	ppbV #	S	81
135)	1,1,2,2-Tetrachloroethane	28.33	83	7984	0.1808	ppbV	S	97
136)	o-Xylene	28.33	91	9310	0.1418	ppbV	S	97
140)	n-Nonane	28.93	43	6387	0.1272	ppbV	S	93
142)	Isopropylbenzene	29.54	105	11845	0.1156	ppbV	S	94
144)	alpha-Pinene	30.34	93	11358	0.1291	ppbV	S	96
147)	n-Propylbenzene	30.64	91	12967	0.1207	ppbV	S	98
148)	m-Ethyltoluene	30.89	105	9076	0.1067	ppbV	S	94
149)	p-Ethyltoluene	30.99	105	9582	0.1156	ppbV	S	95
150)	1,3,5-Trimethylbenzene	31.17	105	9098	0.1176	ppbV	S	96
151)	o-Ethyltoluene	31.57	105	9213	0.1050	ppbV	S	97
152)	beta-Pinene	31.85	93	7144	0.0816	ppbV	S	94
153)	1,2,4-Trimethylbenzene	32.09	105	7982	0.1110	ppbV	S	95
156)	Benzyl chloride	32.37	91	6705	0.1318	ppbV	S	89
157)	m-Dichlorobenzene	32.37	146	7652	0.1514	ppbV	S	93
158)	n-Decane	32.54	57	5563	0.1190	ppbV	S	91
159)	p-Dichlorobenzene	32.55	146	7402	0.1497	ppbV	S	97
161)	1,2,3-Trimethylbenzene	33.11	105	7439	0.0984	ppbV	S	94
163)	o-Dichlorobenzene	33.36	146	6511	0.1476	ppbV	S	94
164)	Limonene	33.53	68	3784	0.1110	ppbV	S	95
165)	Indan	33.55	117	8666	0.1279	ppbV	S	95
166)	Indene	33.78	115	6281	0.1120	ppbV	S	96
167)	m-Diethylbenzene	33.98	105	5305	0.0992	ppbV	S	89
168)	p-Diethylbenzene	34.21	119	4852	0.0956	ppbV	S	94
171)	n-Undecane	35.89	57	5573	0.1093	ppbV	S	86
172)	1,2,4-Trichlorobenzene	37.89	180	4058	0.1791	ppbV	S	89
173)	Naphthalene	38.07	128	11373	0.1705	ppbV	S	96
174)	Hexachloro-1,3-butadiene	38.85	225	7185	0.2146	ppbV	S	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110710.D Vial: 10
Acq On : 7 Nov 2011 9:46 pm Operator: KDK
Sample : CCV BLEND 20,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:18 19111 Quant Results File: CA111026.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110711.D Vial: 11
Acq On : 7 Nov 2011 10:43 pm Operator: KDK
Sample : CCV BLEND 50,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:23 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.85	81	310863	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.27	117	251319	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.71	83	128351	1.9901 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	19.18	96	333977	1.9320 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.50%	
113) Toluene-d8	23.06	98	280263	2.0768 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
115) 1,4-Dichlorobutane	28.16	90	17536	1.7490 ppbV	0.00
Spiked Amount 2.000			Recovery	= 87.50%	
141) 1,4-Bromofluorobenzene	29.23	95	174544	1.9562 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	

Target Compounds						Qvalue
3) Ethylene	3.79	26	5176	0.4976 ppbV	S	97
4) Acetylene	3.89	26	6782	0.4807 ppbV	S	99
5) Ethane	3.98	26	3665	0.5190 ppbV	S	98
7) Propylene	5.55	41	11325	0.4338 ppbV	S	98
9) Propane	5.70	43	5582	0.4637 ppbV	S	91
10) Dichlorodifluoromethane	6.19	85	69186	0.4974 ppbV	S	99
11) Chloromethane	7.01	50	15038	0.4747 ppbV	S	95
12) Isobutane	7.66	43	31950	0.4534 ppbV	S	97
13) Halocarbon 114	7.86	85	60631	0.4902 ppbV	S	99
14) Acetaldehyde	8.08	44	5619m	0.3998 ppbV	S	
15) Vinyl chloride	8.08	62	16533	0.4702 ppbV	S	98
16) 1-Butene/Isobutene	8.51	41	22431	0.4843 ppbV	S	98
17) 1,3-Butadiene	8.62	39	15739	0.5613 ppbV	S	98
18) n-Butane	8.77	43	28361	0.5002 ppbV	S	98
19) Methanol	8.77	31	5275m	0.6692 ppbV	S	
20) trans-2-Butene	9.14	41	21322	0.5161 ppbV	S	98
23) Bromomethane	9.31	94	17501	0.4929 ppbV	S	97
24) cis-2-Butene	9.60	41	23475	0.5803 ppbV	S	98
25) Chloroethane	9.88	64	9216	0.5136 ppbV	S	99
26) Vinyl bromide	10.66	106	20335	0.5954 ppbV	S	99
27) 3-Methyl-1-butene	10.69	55	40252	0.5294 ppbV	S	98
28) Ethanol	10.84	45	5546m	0.6167 ppbV	S	
29) Acetonitrile	10.97	41	9237m	0.4009 ppbV	S	
30) Acrolein	11.19	56	2488m	0.3356 ppbV	S	
31) Isopentane	11.31	41	23429	0.4977 ppbV	S	97
32) Trichlorofluoromethane	11.58	101	79066	0.5445 ppbV	S	98
33) 1-Pentene	11.88	42	24241	0.5446 ppbV	S	97
34) Acetone	11.55	43	19760m	0.3736 ppbV	S	
36) Acrylonitrile	12.35	52	5401	0.3632 ppbV	S	80
37) n-Pentane	12.30	43	32406	0.5475 ppbV	S	95
39) Isoprene	12.48	67	19800	0.5194 ppbV	S	98
40) trans-2-Pentene	12.63	55	33841	0.5363 ppbV	S	98
41) 1,1-Dichloroethene	12.72	61	34779	0.5892 ppbV	S	96
42) cis-2-Pentene	12.92	55	32698	0.5152 ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110711.D Vial: 11
Acq On : 7 Nov 2011 10:43 pm Operator: KDK
Sample : CCV BLEND 50,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:23 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	13.05	49	24184	0.5191	ppbV	S	98
44)	2-Methyl-2-butene	13.11	55	35188	0.5237	ppbV	S	98
45)	Carbon Disulfide	13.16	76	58047	0.5724	ppbV	S	99
46)	3-Chloropropene	13.22	41	19972	0.4937	ppbV	S	100
47)	Halocarbon 113	13.52	151	34701	0.4756	ppbV	S	93
48)	Neohexane	13.68	43	28625	0.4827	ppbV	S	94
49)	Cyclopentene	14.38	67	36453	0.4922	ppbV	S	98
50)	trans-1,2-Dichloroethene	14.54	61	29621	0.5048	ppbV	S	98
51)	4-Methyl-1-pentene	14.58	43	29577	0.4824	ppbV	S	98
53)	1,1-Dichloroethane	14.84	63	38410	0.5316	ppbV	S	98
54)	Cyclopentane	14.83	42	34754	0.5137	ppbV	S	99
55)	2,3-Dimethylbutane	14.94	43	45115	0.4786	ppbV	S	95
56)	Methyl tert-butyl ether	15.04	73	33298	0.3407	ppbV	S	83
57)	Isohexane	15.14	42	25028	0.5047	ppbV	S	98
58)	Vinyl acetate	15.26	43	22635	0.3168	ppbV	S	98
62)	2-Butanone	15.61	43	18273	0.3365	ppbV	S	94
63)	Chloroprene	15.71	53	33921	0.4675	ppbV	S	99
64)	3-Methylpentane	15.73	57	36575	0.4984	ppbV	S	98
66)	2-Methyl-1-pentene	15.97	56	28354m	0.4354	ppbV	S	
67)	1-Hexene	16.00	41	22074m	0.4876	ppbV	S	
68)	cis-1,2-Dichloroethene	16.13	61	29078	0.5078	ppbV	S	96
69)	Bromochloromethane	16.36	130	17964	0.4547	ppbV	S	96
71)	n-Hexane	16.49	57	30106	0.4865	ppbV	S	98
72)	Chloroform	16.60	83	52264	0.5352	ppbV	S	98
74)	trans-2-Hexene	16.70	55	35998	0.5011	ppbV	S	97
77)	cis-2-Hexene	17.10	55	28721	0.4582	ppbV	S	97
78)	Methylcyclopentane	17.62	56	35986	0.4670	ppbV	S	99
79)	1,2-Dichloroethane	17.64	62	40450	0.5721	ppbV	S	99
80)	2,4-Dimethylpentane	17.79	43	45949	0.4850	ppbV	S	98
81)	1,1,1-Trichloroethane	17.99	97	61936	0.5113	ppbV	S	98
84)	Benzene	18.66	78	52520	0.6039	ppbV	S	98
85)	Carbon tetrachloride	18.88	117	68074	0.5833	ppbV	S	97
86)	1-Butanol	18.89	56	7752	0.5135	ppbV	S	87
87)	Cyclohexane	19.06	56	31275	0.5569	ppbV	S	96
88)	Isoheptane	19.44	43	49114	0.5500	ppbV	S	98
89)	2,3-Dimethylpentane	19.51	56	38077	0.5345	ppbV	S	99
91)	3-Methylhexane	19.81	43	37355	0.5316	ppbV	S	98
92)	1,2-Dichloropropane	19.93	63	14881	0.5770	ppbV	S	98
93)	Bromodichloromethane	20.24	83	43108	0.5891	ppbV	S	96
94)	Trichloroethene	20.31	130	29224	0.5044	ppbV	S	95
95)	1,4-Dioxane	20.38	88	7127	0.6346	ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.38	57	100337	0.5443	ppbV	S	98
98)	2-Chloropentane	20.62	70	17058	0.4447	ppbV	S	99
100)	n-Heptane	20.85	71	19554	0.5517	ppbV	S	90
104)	cis-1,3-Dichloropropene	21.69	75	18309	0.4622	ppbV	S	96
105)	Methylisobutylketone	21.81	43	26527	0.4212	ppbV #	S	79
106)	Methylcyclohexane	21.77	83	35985	0.5187	ppbV	S	88
110)	trans-1,3-Dichloropropene	22.55	75	15041	0.4055	ppbV	S	96
111)	1,1,2-Trichloroethane	22.79	97	12083	0.4435	ppbV	S	95
112)	2,3,4-Trimethylpentane	23.01	43	58182	0.5464	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110711.D Vial: 11
Acq On : 7 Nov 2011 10:43 pm Operator: KDK
Sample : CCV BLEND 50,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:23 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

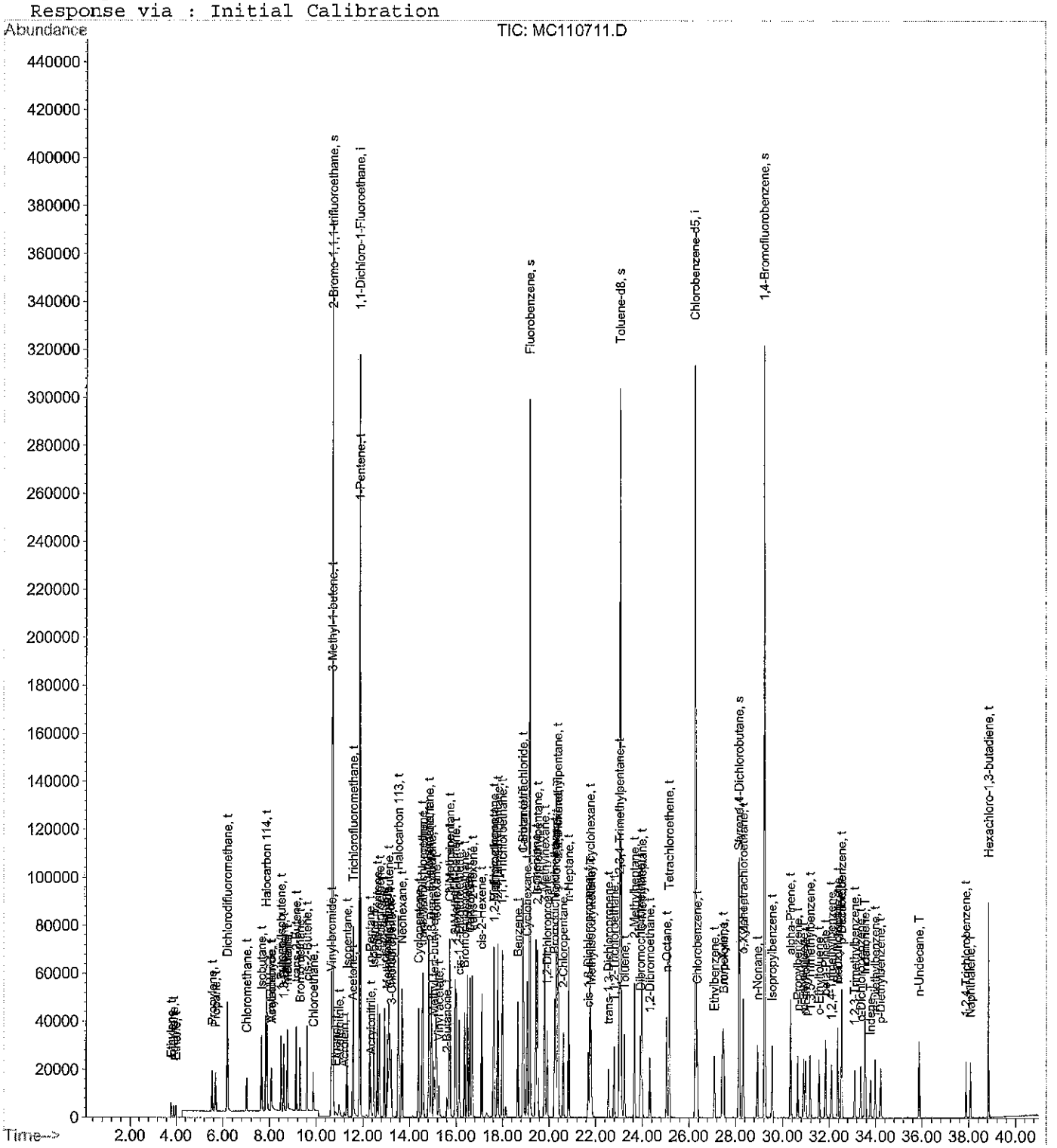
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
114)	Toluene	23.22	91	35168	0.4699 ppbV	S	96
117)	2-Methylheptane	23.66	43	29753	0.4862 ppbV	S	97
119)	Dibromochloromethane	23.91	129	27579	0.4714 ppbV	S	98
120)	3-Methylheptane	23.98	85	18339	0.4678 ppbV	S	91
122)	1,2-Dibromoethane	24.30	107	24568	0.4921 ppbV	S	98
125)	n-Octane	25.04	43	23244	0.4084 ppbV	S	95
126)	Tetrachloroethene	25.15	164	22724	0.5403 ppbV	S	98
128)	Chlorobenzene	26.35	112	28903	0.4720 ppbV	S	98
129)	Ethylbenzene	27.10	91	27146	0.3332 ppbV	S	97
130)	m/p-Xylene	27.46	91	49895m	0.7056 ppbV	S	
131)	Bromoform	27.49	173	15312	0.4309 ppbV	S	97
134)	Styrene	28.14	104	14360	0.3090 ppbV	S	86
135)	1,1,2,2-Tetrachloroethane	28.33	83	17339	0.3954 ppbV	S	98
136)	o-Xylene	28.33	91	23178	0.3554 ppbV	S	98
140)	n-Nonane	28.94	43	15532	0.3114 ppbV	S	96
142)	Isopropylbenzene	29.54	105	28906	0.2840 ppbV	S	96
144)	alpha-Pinene	30.33	93	27351	0.3129 ppbV	S	96
147)	n-Propylbenzene	30.64	91	30390	0.2848 ppbV	S	98
148)	m-Ethyltoluene	30.90	105	23065	0.2730 ppbV	S	97
149)	p-Ethyltoluene	30.98	105	23188	0.2817 ppbV	S	95
150)	1,3,5-Trimethylbenzene	31.17	105	23042	0.2998 ppbV	S	93
151)	o-Ethyltoluene	31.57	105	22364	0.2567 ppbV	S	99
152)	beta-Pinene	31.85	93	18485	0.2124 ppbV	S	95
153)	1,2,4-Trimethylbenzene	32.10	105	19432	0.2720 ppbV	S	99
156)	Benzyl chloride	32.37	91	14715	0.2912 ppbV	S	97
157)	m-Dichlorobenzene	32.38	146	16506	0.3287 ppbV	S	95
158)	n-Decane	32.54	57	13896	0.2993 ppbV	S	99
159)	p-Dichlorobenzene	32.55	146	16090	0.3277 ppbV	S	95
161)	1,2,3-Trimethylbenzene	33.11	105	18141	0.2416 ppbV	S	98
163)	o-Dichlorobenzene	33.36	146	13340	0.3044 ppbV	S	95
164)	Limonene	33.53	68	9078	0.2681 ppbV	S	95
165)	Indan	33.55	117	20192	0.3001 ppbV	S	95
166)	Indene	33.78	115	13905	0.2497 ppbV	S	91
167)	m-Diethylbenzene	33.98	105	12840	0.2418 ppbV	S	95
168)	p-Diethylbenzene	34.21	119	11230	0.2227 ppbV	S	97
171)	n-Undecane	35.88	57	14075	0.2779 ppbV	S	94
172)	1,2,4-Trichlorobenzene	37.88	180	8030	0.3569 ppbV	S	98
173)	Naphthalene	38.07	128	22476	0.3391 ppbV	S	98
174)	Hexachloro-1,3-butadiene	38.85	225	15289	0.4597 ppbV	S	95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110711.D Vial: 11
Acq On : 7 Nov 2011 10:43 pm Operator: KDK
Sample : CCV BLEND 50,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:23 19111 Quant Results File: CA111026.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110712.D Vial: 12
Acq On : 7 Nov 2011 11:41 pm Operator: KDK
Sample : CCV BLEND 100,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:26 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.86	81	308323	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.27	117	244847	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.71	83	128812	2.0137 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.18	96	320260	1.8679 ppbV	0.00
Spiked Amount 2.000			Recovery	= 93.50%	
113) Toluene-d8	23.06	98	273898	2.0832 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
115) 1,4-Dichlorobutane	28.16	90	17454	1.7868 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.50%	
141) 1,4-Bromofluorobenzene	29.23	95	172591	1.9854 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	

Target Compounds					Qvalue
3) Ethylene	3.79	26	10059	0.9749 ppbV	S 97
4) Acetylene	3.89	26	13649	0.9755 ppbV	S 99
5) Ethane	3.98	26	7248	1.0349 ppbV	S 99
7) Propylene	5.55	41	23653	0.9135 ppbV	S 97
9) Propane	5.69	43	11155	0.9344 ppbV	S 93
10) Dichlorodifluoromethane	6.19	85	136611	0.9902 ppbV	S 100
11) Chloromethane	7.01	50	30470	0.9697 ppbV	S 98
12) Isobutane	7.65	43	66063	0.9451 ppbV	S 99
13) Halocarbon 114	7.85	85	120238	0.9801 ppbV	S 98
14) Acetaldehyde	7.98	44	14085m	1.0105 ppbV	S
15) Vinyl chloride	8.08	62	33778	0.9685 ppbV	S 99
16) 1-Butene/Isobutene	8.51	41	44393	0.9664 ppbV	S 98
17) 1,3-Butadiene	8.62	39	30862	1.1096 ppbV	S 97
18) n-Butane	8.77	43	54828	0.9750 ppbV	S 99
19) Methanol	8.71	31	10078m	1.2891 ppbV	S
20) trans-2-Butene	9.14	41	42603	1.0398 ppbV	S 98
23) Bromomethane	9.30	94	35184	0.9990 ppbV	S 98
24) cis-2-Butene	9.60	41	45513	1.1343 ppbV	S 100
25) Chloroethane	9.88	64	19125	1.0746 ppbV	S 98
26) Vinyl bromide	10.66	106	39919	1.1785 ppbV	S 99
27) 3-Methyl-1-butene	10.69	55	81073	1.0751 ppbV	S 100
28) Ethanol	10.77	45	11504m	1.2897 ppbV	S
29) Acetonitrile	10.93	41	20169	0.8826 ppbV	S 98
30) Acrolein	11.16	56	6117	0.8319 ppbV	S 98
31) Isopentane	11.31	41	47293	1.0130 ppbV	S 99
32) Trichlorofluoromethane	11.58	101	157740	1.0952 ppbV	S 98
33) 1-Pentene	11.88	42	49530	1.1219 ppbV	S 98
34) Acetone	11.47	43	47560m	0.9067 ppbV	S
36) Acrylonitrile	12.33	52	12481	0.8463 ppbV	S 92
37) n-Pentane	12.30	43	67517	1.1500 ppbV	S 100
39) Isoprene	12.48	67	40977	1.0838 ppbV	S 97
40) trans-2-Pentene	12.63	55	70439	1.1256 ppbV	S 98
41) 1,1-Dichloroethene	12.72	61	69959	1.1950 ppbV	S 97
42) cis-2-Pentene	12.92	55	68009	1.0803 ppbV	S 98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110712.D Vial: 12
Acq On : 7 Nov 2011 11:41 pm Operator: KDK
Sample : CCV BLEND 100,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:26 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	13.05	49	47790	1.0342	ppbV	S	97
44)	2-Methyl-2-butene	13.11	55	73450	1.1021	ppbV	S	98
45)	Carbon Disulfide	13.16	76	113770	1.1311	ppbV	S	99
46)	3-Chloropropene	13.21	41	42312	1.0546	ppbV	S	99
47)	Halocarbon 113	13.52	151	68618	0.9482	ppbV	S	94
48)	Neohexane	13.68	43	57463	0.9769	ppbV	S	99
49)	Cyclopentene	14.38	67	77098	1.0496	ppbV	S	98
50)	trans-1,2-Dichloroethene	14.55	61	59935	1.0299	ppbV	S	98
51)	4-Methyl-1-pentene	14.58	43	60445	0.9940	ppbV	S	98
53)	1,1-Dichloroethane	14.84	63	76986	1.0743	ppbV	S	99
54)	Cyclopentane	14.82	42	71598	1.0670	ppbV	S	98
55)	2,3-Dimethylbutane	14.93	43	90774	0.9709	ppbV	S	96
56)	Methyl tert-butyl ether	15.02	73	85901	0.8861	ppbV	S	97
57)	Isohexane	15.14	42	49341	1.0032	ppbV	S	99
58)	Vinyl acetate	15.25	43	55213	0.7791	ppbV	S	98
62)	2-Butanone	15.57	43	44848	0.8327	ppbV	S	98
63)	Chloroprene	15.71	53	71686	0.9960	ppbV	S	98
64)	3-Methylpentane	15.73	57	73700	1.0125	ppbV	S	99
66)	2-Methyl-1-pentene	15.96	56	58818m	0.9107	ppbV	S	
67)	1-Hexene	16.00	41	44472m	0.9904	ppbV	S	
68)	cis-1,2-Dichloroethene	16.13	61	58302	1.0265	ppbV	S	96
69)	Bromochloromethane	16.36	130	36262	0.9254	ppbV	S	95
71)	n-Hexane	16.49	57	62347	1.0158	ppbV	S	99
72)	Chloroform	16.60	83	99231	1.0246	ppbV	S	99
74)	trans-2-Hexene	16.70	55	73337	1.0293	ppbV	S	99
77)	cis-2-Hexene	17.10	55	59240	0.9528	ppbV	S	99
78)	Methylcyclopentane	17.62	56	73847	0.9663	ppbV	S	99
79)	1,2-Dichloroethane	17.64	62	73600	1.0496	ppbV	S	99
80)	2,4-Dimethylpentane	17.79	43	93588	0.9960	ppbV	S	98
81)	1,1,1-Trichloroethane	17.99	97	123801	1.0305	ppbV	S	98
84)	Benzene	18.66	78	97671	1.1528	ppbV	S	99
85)	Carbon tetrachloride	18.89	117	137861	1.2124	ppbV	S	97
86)	1-Butanol	18.85	56	17659	1.2007	ppbV	S	97
87)	Cyclohexane	19.05	56	62308	1.1388	ppbV	S	99
88)	Isoheptane	19.44	43	99140	1.1396	ppbV	S	98
89)	2,3-Dimethylpentane	19.51	56	79242	1.1417	ppbV	S	99
91)	3-Methylhexane	19.81	43	77035	1.1253	ppbV	S	97
92)	1,2-Dichloropropane	19.93	63	26981	1.0738	ppbV	S	99
93)	Bromodichloromethane	20.24	83	75292	1.0561	ppbV	S	97
94)	Trichloroethene	20.31	130	58236	1.0317	ppbV	S	97
95)	1,4-Dioxane	20.37	88	13717	1.2538	ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.38	57	201584	1.1225	ppbV	S	99
98)	2-Chloropentane	20.62	70	34852	0.9327	ppbV	S	99
100)	n-Heptane	20.85	71	38508	1.1151	ppbV	S	99
104)	cis-1,3-Dichloropropene	21.69	75	35242	0.9133	ppbV	S	97
105)	Methylisobutylketone	21.80	43	59798	0.9747	ppbV	S	87
106)	Methylcyclohexane	21.77	83	74358	1.1002	ppbV	S	88
110)	trans-1,3-Dichloropropene	22.55	75	31528	0.8724	ppbV	S	99
111)	1,1,2-Trichloroethane	22.79	97	24278	0.9146	ppbV	S	96
112)	2,3,4-Trimethylpentane	23.01	43	114235	1.1012	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110712.D Vial: 12
Acq On : 7 Nov 2011 11:41 pm Operator: KDK
Sample : CCV BLEND 100,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:26 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

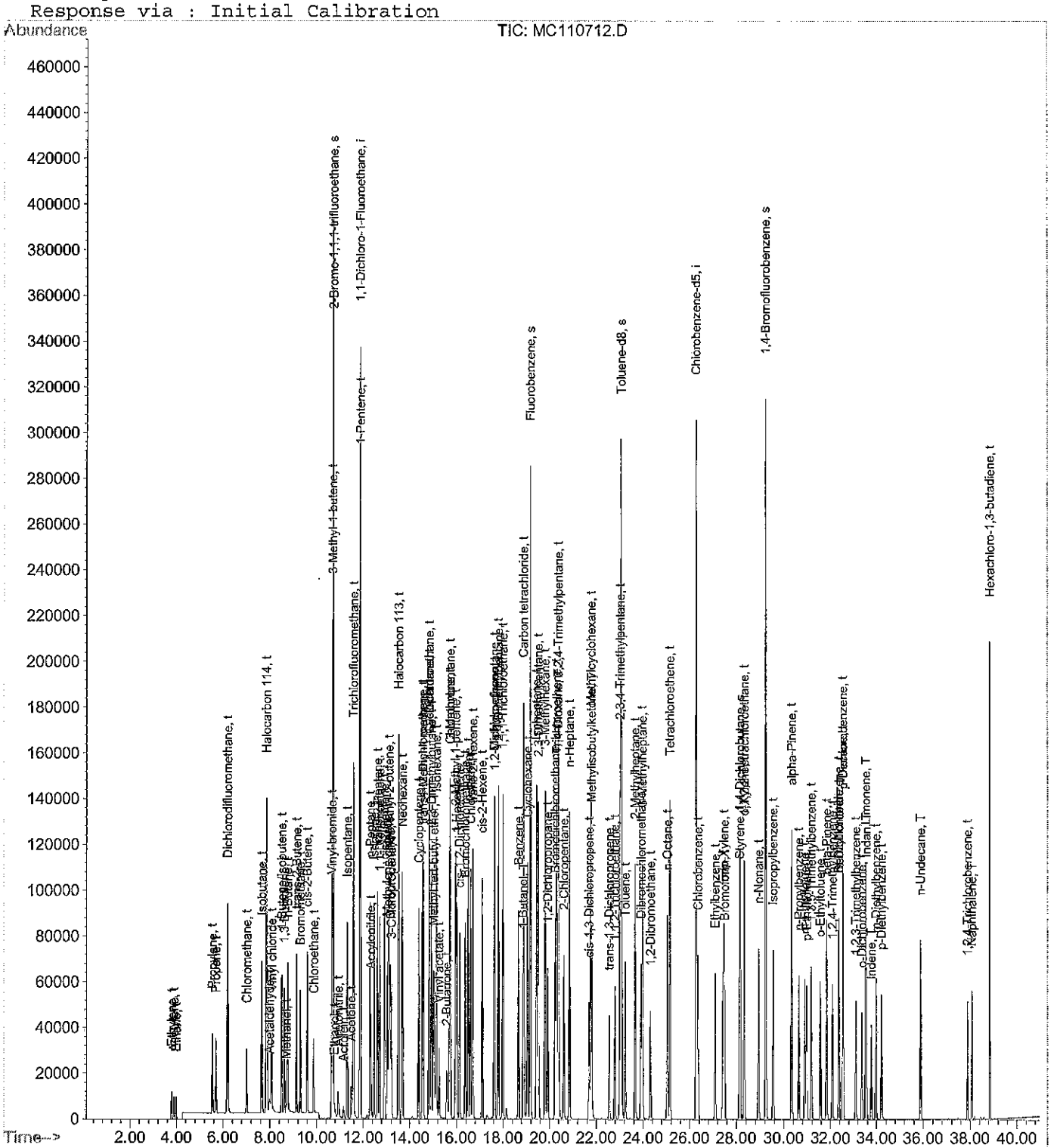
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
114)	Toluene	23.23	91	69205	0.9491 ppbV	S	98
117)	2-Methylheptane	23.66	43	61049	1.0239 ppbV	S	99
119)	Dibromochloromethane	23.91	129	54006	0.9476 ppbV	S	98
120)	3-Methylheptane	23.97	85	37306	0.9768 ppbV	S	96
122)	1,2-Dibromoethane	24.31	107	47187	0.9701 ppbV	S	93
125)	n-Octane	25.04	43	51654	0.9315 ppbV	S	98
126)	Tetrachloroethene	25.14	164	42170	1.0292 ppbV	S	98
128)	Chlorobenzene	26.35	112	55196	0.9253 ppbV	S	97
129)	Ethylbenzene	27.10	91	67485	0.8501 ppbV	S	98
130)	m/p-Xylene	27.46	91	119555m	1.7353 ppbV	S	
131)	Bromoform	27.49	173	32486	0.9383 ppbV	S	99
134)	Styrene	28.12	104	35563	0.7854 ppbV	S	94
135)	1,1,2,2-Tetrachloroethane	28.33	83	37898	0.8870 ppbV	S	99
136)	o-Xylene	28.32	91	54761	0.8618 ppbV	S	97
140)	n-Nonane	28.93	43	39725	0.8175 ppbV	S	98
142)	Isopropylbenzene	29.55	105	73691	0.7432 ppbV	S	98
144)	alpha-Pinene	30.33	93	73185	0.8595 ppbV	S	96
147)	n-Propylbenzene	30.64	91	76215	0.7332 ppbV	S	97
148)	m-Ethyltoluene	30.90	105	57120	0.6940 ppbV	S	97
149)	p-Ethyltoluene	30.98	105	57620	0.7186 ppbV	S	99
150)	1,3,5-Trimethylbenzene	31.18	105	59087	0.7890 ppbV	S	98
151)	o-Ethyltoluene	31.56	105	58643	0.6908 ppbV	S	99
152)	beta-Pinene	31.84	93	50181	0.5920 ppbV	S	97
153)	1,2,4-Trimethylbenzene	32.10	105	52006	0.7473 ppbV	S	96
156)	Benzyl chloride	32.37	91	34837	0.7075 ppbV	S	97
157)	m-Dichlorobenzene	32.38	146	36624	0.7487 ppbV	S	97
158)	n-Decane	32.54	57	34837	0.7700 ppbV	S	97
159)	p-Dichlorobenzene	32.55	146	36355	0.7599 ppbV	S	97
161)	1,2,3-Trimethylbenzene	33.10	105	46959	0.6419 ppbV	S	96
163)	o-Dichlorobenzene	33.36	146	30142	0.7059 ppbV	S	96
164)	Limonene	33.53	68	25087	0.7604 ppbV	S	94
165)	Indan	33.56	117	48141	0.7343 ppbV	S	96
166)	Indene	33.77	115	34636	0.6384 ppbV	S	96
167)	m-Diethylbenzene	33.98	105	32884	0.6357 ppbV	S	96
168)	p-Diethylbenzene	34.20	119	29117	0.5928 ppbV	S	96
171)	n-Undecane	35.88	57	37392	0.7579 ppbV	S	96
172)	1,2,4-Trichlorobenzene	37.88	180	17383	0.7929 ppbV	S	93
173)	Naphthalene	38.07	128	52185	0.8082 ppbV	S	98
174)	Hexachloro-1,3-butadiene	38.85	225	34206	1.0556 ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110712.D Vial: 12
Acq On : 7 Nov 2011 11:41 pm Operator: KDK
Sample : CCV BLEND 100,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:26 19111 Quant Results File: CA111026.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110713.D Vial: 13
Acq On : 8 Nov 2011 12:38 am Operator: KDK
Sample : CCV BLEND 250,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:29 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.86	81	309443	2.0000 ppbV	0.00
82) Chlorobenzene-d5	26.27	117	267331	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.71	83	129270	2.0136 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
65) Fluorobenzene	19.18	96	330467	1.9204 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.00%	
113) Toluene-d8	23.07	98	279609	1.9478 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
115) 1,4-Dichlorobutane	28.15	90	20564	1.9282 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.50%	
141) 1,4-Bromofluorobenzene	29.23	95	200047	2.1077 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	

Target Compounds					Qvalue
3) Ethylene	3.79	26	25344	2.4474 ppbV	S 100
4) Acetylene	3.89	26	35397	2.5206 ppbV	S 99
5) Ethane	3.98	26	17425	2.4790 ppbV	S 100
7) Propylene	5.54	41	62624	2.4100 ppbV	S 98
9) Propane	5.69	43	28024	2.3389 ppbV	S 98
10) Dichlorodifluoromethane	6.19	85	344364	2.4870 ppbV	S 100
11) Chloromethane	7.00	50	76696	2.4321 ppbV	S 99
12) Isobutane	7.65	43	170148	2.4254 ppbV	S 99
13) Halocarbon 114	7.85	85	297550	2.4166 ppbV	S 98
14) Acetaldehyde	7.89	44	35390m	2.5298 ppbV	S
15) Vinyl chloride	8.07	62	85820	2.4518 ppbV	S 99
16) 1-Butene/Isobutene	8.50	41	107105	2.3232 ppbV	S 100
17) 1,3-Butadiene	8.61	39	71443	2.5594 ppbV	S 99
18) n-Butane	8.77	43	132619	2.3497 ppbV	S 98
19) Methanol	8.65	31	18622m	2.3734 ppbV	S
20) trans-2-Butene	9.13	41	94218	2.2912 ppbV	S 99
23) Bromomethane	9.30	94	86905	2.4587 ppbV	S 99
24) cis-2-Butene	9.61	41	100920	2.5060 ppbV	S 99
25) Chloroethane	9.88	64	43998	2.4632 ppbV	S 99
26) Vinyl bromide	10.66	106	90829	2.6718 ppbV	S 99
27) 3-Methyl-1-butene	10.68	55	196078	2.5907 ppbV	S 98
28) Ethanol	10.72	45	27676m	3.0916 ppbV	S
29) Acetonitrile	10.88	41	62384	2.7200 ppbV	S 98
30) Acrolein	11.11	56	21288	2.8845 ppbV	S 97
31) Isopentane	11.31	41	115070	2.4558 ppbV	S 98
32) Trichlorofluoromethane	11.57	101	375696	2.5990 ppbV	S 99
33) 1-Pentene	11.88	42	115720	2.6116 ppbV	S 98
34) Acetone	11.41	43	150690m	2.8625 ppbV	S
36) Acrylonitrile	12.31	52	40171	2.7139 ppbV	S 98
37) n-Pentane	12.30	43	162094	2.7510 ppbV	S 99
39) Isoprene	12.48	67	99674	2.6267 ppbV	S 97
40) trans-2-Pentene	12.63	55	170533	2.7151 ppbV	S 99
41) 1,1-Dichloroethene	12.72	61	169510	2.8850 ppbV	S 98
42) cis-2-Pentene	12.92	55	168730	2.6705 ppbV	S 100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110713.D Vial: 13
Acq On : 8 Nov 2011 12:38 am Operator: KDK
Sample : CCV BLEND 250,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:29 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	13.05	49	120886	2.6066	ppbV	S	99
44)	2-Methyl-2-butene	13.11	55	181537	2.7141	ppbV	S	99
45)	Carbon Disulfide	13.16	76	277248	2.7464	ppbV	S	100
46)	3-Chloropropene	13.21	41	107440	2.6682	ppbV	S	96
47)	Halocarbon 113	13.52	151	176357	2.4281	ppbV	S	96
48)	Neohexane	13.68	43	150936	2.5567	ppbV	S	98
49)	Cyclopentene	14.38	67	192316	2.6088	ppbV	S	99
50)	trans-1,2-Dichloroethene	14.54	61	157115	2.6900	ppbV	S	99
51)	4-Methyl-1-pentene	14.58	43	157702	2.5841	ppbV	S	99
53)	1,1-Dichloroethane	14.83	63	192733	2.6799	ppbV	S	99
54)	Cyclopentane	14.82	42	177816	2.6403	ppbV	S	98
55)	2,3-Dimethylbutane	14.93	43	235325	2.5080	ppbV	S	99
56)	Methyl tert-butyl ether	15.00	73	267937	2.7538	ppbV	S	98
57)	Isohexane	15.14	42	126078	2.5540	ppbV	S	99
58)	Vinyl acetate	15.24	43	199301	2.8023	ppbV	S	99
62)	2-Butanone	15.54	43	154217	2.8530	ppbV	S	99
63)	Chloroprene	15.71	53	189955	2.6297	ppbV	S	100
64)	3-Methylpentane	15.74	57	186234	2.5494	ppbV	S	99
66)	2-Methyl-1-pentene	15.96	56	162924m	2.5136	ppbV	S	
67)	1-Hexene	16.00	41	112900m	2.5051	ppbV	S	
68)	cis-1,2-Dichloroethene	16.13	61	149695	2.6262	ppbV	S	97
69)	Bromochloromethane	16.36	130	95005	2.4158	ppbV	S	97
71)	n-Hexane	16.49	57	163421	2.6530	ppbV	S	99
72)	Chloroform	16.60	83	255209	2.6255	ppbV	S	99
74)	trans-2-Hexene	16.70	55	188096	2.6304	ppbV	S	99
77)	cis-2-Hexene	17.09	55	152898	2.4502	ppbV	S	99
78)	Methylcyclopentane	17.62	56	195324	2.5466	ppbV	S	99
79)	1,2-Dichloroethane	17.64	62	193101	2.7437	ppbV	S	99
80)	2,4-Dimethylpentane	17.79	43	245550	2.6038	ppbV	S	99
81)	1,1,1-Trichloroethane	17.99	97	324133	2.6883	ppbV	S	99
84)	Benzene	18.66	78	256456	2.7724	ppbV	S	99
85)	Carbon tetrachloride	18.88	117	359905	2.8990	ppbV	S	98
86)	1-Butanol	18.83	56	45470	2.8317	ppbV	S	97
87)	Cyclohexane	19.06	56	166404	2.7856	ppbV	S	97
88)	Isoheptane	19.44	43	259868	2.7360	ppbV	S	98
89)	2,3-Dimethylpentane	19.52	56	204551	2.6993	ppbV	S	99
91)	3-Methylhexane	19.81	43	204006	2.7294	ppbV	S	98
92)	1,2-Dichloropropane	19.92	63	78957	2.8782	ppbV	S	96
93)	Bromodichloromethane	20.24	83	216535	2.7819	ppbV	S	99
94)	Trichloroethene	20.30	130	157709	2.5591	ppbV	S	98
95)	1,4-Dioxane	20.36	88	30559	2.5582	ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.39	57	531660	2.7114	ppbV	S	100
98)	2-Chloropentane	20.62	70	115620	2.8339	ppbV	S	99
100)	n-Heptane	20.86	71	103916	2.7561	ppbV	S	99
104)	cis-1,3-Dichloropropene	21.69	75	119019	2.8249	ppbV	S	99
105)	Methylisobutylketone	21.78	43	201367	3.0061	ppbV	S	97
106)	Methylcyclohexane	21.77	83	199271	2.7004	ppbV	S	95
110)	trans-1,3-Dichloropropene	22.55	75	117364	2.9743	ppbV	S	99
111)	1,1,2-Trichloroethane	22.79	97	80985	2.7944	ppbV	S	98
112)	2,3,4-Trimethylpentane	23.01	43	317838	2.8063	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110713.D Vial: 13
Acq On : 8 Nov 2011 12:38 am Operator: KDK
Sample : CCV BLEND 250,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:29 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

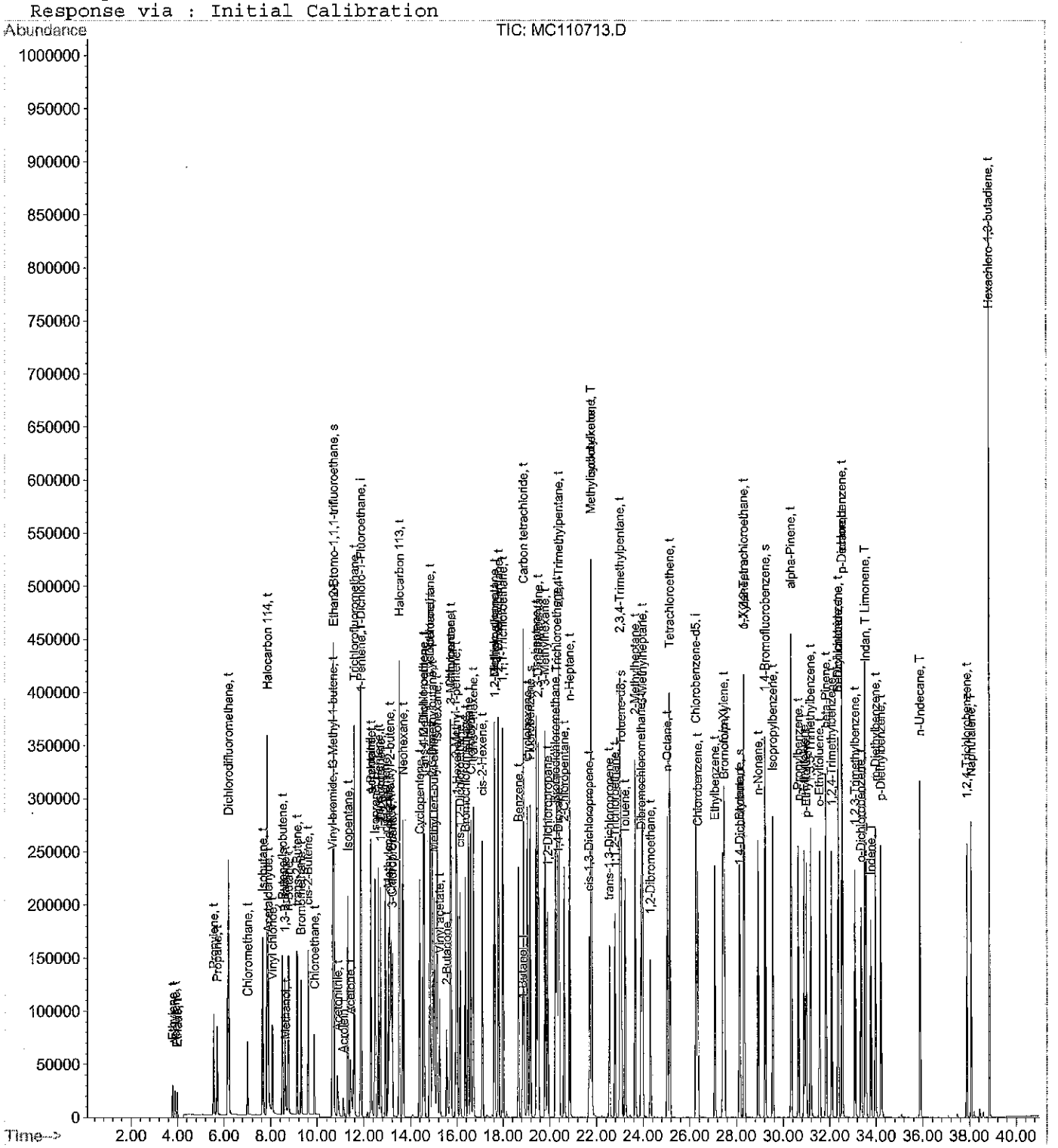
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
114)	Toluene	23.22	91	232021	2.9143	ppbV	S 100
117)	2-Methylheptane	23.66	43	191245	2.9378	ppbV	S 99
119)	Dibromochloromethane	23.91	129	181368	2.9146	ppbV	S 97
120)	3-Methylheptane	23.98	85	116308	2.7892	ppbV	S 97
122)	1,2-Dibromoethane	24.31	107	148923	2.8043	ppbV	S 99
125)	n-Octane	25.04	43	175923	2.9057	ppbV	S 98
126)	Tetrachloroethene	25.15	164	122129	2.7300	ppbV	S 98
128)	Chlorobenzene	26.35	112	185738	2.8518	ppbV	S 97
129)	Ethylbenzene	27.09	91	261313	3.0150	ppbV	S 99
130)	m/p-Xylene	27.46	91	449884m	5.9809	ppbV	S
131)	Bromoform	27.49	173	120073	3.1766	ppbV	S 97
134)	Styrene	28.12	104	145680	2.9466	ppbV	S 97
135)	1,1,2,2-Tetrachloroethane	28.33	83	135368	2.9018	ppbV	S 99
136)	o-Xylene	28.33	91	210649	3.0363	ppbV	S 98
140)	n-Nonane	28.93	43	148753	2.8039	ppbV	S 99
142)	Isopropylbenzene	29.54	105	298164	2.7541	ppbV	S 99
144)	alpha-Pinene	30.33	93	277170	2.9812	ppbV	S 98
147)	n-Propylbenzene	30.64	91	316826	2.7916	ppbV	S 98
148)	m-Ethyltoluene	30.90	105	244645	2.7223	ppbV	S 99
149)	p-Ethyltoluene	30.98	105	242491	2.7697	ppbV	S 99
150)	1,3,5-Trimethylbenzene	31.17	105	246437	3.0141	ppbV	S 98
151)	o-Ethyltoluene	31.57	105	254614	2.7471	ppbV	S 99
152)	beta-Pinene	31.84	93	195800	2.1155	ppbV	S 98
153)	1,2,4-Trimethylbenzene	32.09	105	230541	3.0341	ppbV	S 100
156)	Benzyl chloride	32.37	91	156945	2.9195	ppbV	S 99
157)	m-Dichlorobenzene	32.37	146	152668	2.8584	ppbV	S 97
158)	n-Decane	32.54	57	137813	2.7901	ppbV	S 100
159)	p-Dichlorobenzene	32.55	146	146662	2.8079	ppbV	S 98
161)	1,2,3-Trimethylbenzene	33.10	105	221367	2.7715	ppbV	S 100
163)	o-Dichlorobenzene	33.36	146	132210	2.8358	ppbV	S 97
164)	Limonene	33.53	68	107252	2.9774	ppbV	S 97
165)	Indan	33.55	117	203422	2.8419	ppbV	S 99
166)	Indene	33.78	115	164952	2.7846	ppbV	S 99
167)	m-Diethylbenzene	33.98	105	156373	2.7685	ppbV	S 97
168)	p-Diethylbenzene	34.21	119	150398	2.8044	ppbV	S 99
171)	n-Undecane	35.88	57	169526	3.1471	ppbV	S 99
172)	1,2,4-Trichlorobenzene	37.88	180	90225	3.7695	ppbV	S 98
173)	Naphthalene	38.07	128	275975	3.9148	ppbV	S 99
174)	Hexachloro-1,3-butadiene	38.85	225	145854	4.1225	ppbV	S 97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110713.D Vial: 13
Acq On : 8 Nov 2011 12:38 am Operator: KDK
Sample : CCV BLEND 250,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:29 19111 Quant Results File: CA111026.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110714.D Vial: 14
Acq On : 8 Nov 2011 1:36 am Operator: KDK
Sample : CCV BLEND 500,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:36 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.84	81	310249	2.0000 ppbV	-0.01
82) Chlorobenzene-d5	26.27	117	289339	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.70	83	132099	2.0523 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.50%	
65) Fluorobenzene	19.17	96	337741	1.9576 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	
113) Toluene-d8	23.06	98	291294	1.8749 ppbV	0.00
Spiked Amount 2.000			Recovery	= 93.50%	
115) 1,4-Dichlorobutane	28.15	90	22448	1.9447 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.00%	
141) 1,4-Bromofluorobenzene	29.23	95	215421	2.0971 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.00%	

Target Compounds					Qvalue
3) Ethylene	3.79	26	51489	4.9593 ppbV	S 99
4) Acetylene	3.89	26	78026	5.5419 ppbV	S 99
5) Ethane	3.98	26	34931	4.9566 ppbV	S 98
7) Propylene	5.54	41	138624	5.3208 ppbV	S 98
9) Propane	5.69	43	60711	5.0538 ppbV	S 98
10) Dichlorodifluoromethane	6.18	85	741270	5.3395 ppbV	S 100
11) Chloromethane	7.00	50	166270	5.2589 ppbV	S 100
12) Isobutane	7.64	43	369441	5.2527 ppbV	S 100
13) Halocarbon 114	7.84	85	639879	5.1834 ppbV	S 99
14) Acetaldehyde	7.83	44	78341m	5.5855 ppbV	S
15) Vinyl chloride	8.07	62	186818	5.3233 ppbV	S 99
16) 1-Butene/Isobutene	8.50	41	227206	4.9156 ppbV	S 99
17) 1,3-Butadiene	8.60	39	145978	5.2159 ppbV	S 98
18) n-Butane	8.76	43	277285	4.9001 ppbV	S 99
19) Methanol	8.62	31	27502m	3.4960 ppbV	S
20) trans-2-Butene	9.13	41	194460	4.7167 ppbV	S 99
23) Bromomethane	9.29	94	184339	5.2018 ppbV	S 100
24) cis-2-Butene	9.60	41	202474	5.0147 ppbV	S 99
25) Chloroethane	9.86	64	89694	5.0084 ppbV	S 99
26) Vinyl bromide	10.64	106	175572	5.1512 ppbV	S 99
27) 3-Methyl-1-butene	10.67	55	409109	5.3913 ppbV	S 99
28) Ethanol	10.69	45	40844m	4.5507 ppbV	S
29) Acetonitrile	10.84	41	135045	5.8728 ppbV	S 99
30) Acrolein	11.08	56	52604	7.1093 ppbV	S 99
31) Isopentane	11.29	41	235931	5.0221 ppbV	S 99
32) Trichlorofluoromethane	11.56	101	782414	5.3986 ppbV	S 99
33) 1-Pentene	11.87	42	213152	4.7980 ppbV	S 99
34) Acetone	11.36	43	347451m	6.5831 ppbV	S
36) Acrylonitrile	12.27	52	94281	6.3530 ppbV	S 98
37) n-Pentane	12.29	43	290756	4.9217 ppbV	S 99
39) Isoprene	12.46	67	189268	4.9748 ppbV	S 100
40) trans-2-Pentene	12.61	55	317531	5.0424 ppbV	S 99
41) 1,1-Dichloroethene	12.70	61	297856	5.0562 ppbV	S 98
42) cis-2-Pentene	12.91	55	321130	5.0694 ppbV	S 99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110714.D Vial: 14
Acq On : 8 Nov 2011 1:36 am Operator: KDK
Sample : CCV BLEND 500,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:36 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	13.03	49	250482	5.3870	ppbV	S	99
44)	2-Methyl-2-butene	13.09	55	357518	5.3313	ppbV	S	99
45)	Carbon Disulfide	13.15	76	521493m	5.1524	ppbV	S	
46)	3-Chloropropene	13.20	41	220715	5.4671	ppbV	S	99
47)	Halocarbon 113	13.50	151	388360	5.3332	ppbV	S	97
48)	Neohexane	13.66	43	321266	5.4278	ppbV	S	99
49)	Cyclopentene	14.37	67	367916	4.9778	ppbV	S	100
50)	trans-1,2-Dichloroethene	14.52	61	327046	5.5849	ppbV	S	98
51)	4-Methyl-1-pentene	14.56	43	325069	5.3127	ppbV	S	99
53)	1,1-Dichloroethane	14.81	63	390754	5.4191	ppbV	S	99
54)	Cyclopentane	14.81	42	344612	5.1036	ppbV	S	99
55)	2,3-Dimethylbutane	14.91	43	495204	5.2639	ppbV	S	99
56)	Methyl tert-butyl ether	14.98	73	610795	6.2612	ppbV	S	90
57)	Isohexane	15.12	42	264749	5.3492	ppbV	S	99
58)	Vinyl acetate	15.22	43	492529	6.9073	ppbV	S	100
62)	2-Butanone	15.51	43	377029	6.9568	ppbV	S	99
63)	Chloroprene	15.69	53	397798	5.4928	ppbV	S	99
64)	3-Methylpentane	15.72	57	386169	5.2726	ppbV	S	99
66)	2-Methyl-1-pentene	15.95	56	327251m	5.0357	ppbV	S	
67)	1-Hexene	15.99	41	232713m	5.1501	ppbV	S	
68)	cis-1,2-Dichloroethene	16.11	61	318231	5.5683	ppbV	S	99
69)	Bromochloromethane	16.35	130	210306	5.3339	ppbV	S	99
71)	n-Hexane	16.47	57	347379	5.6248	ppbV	S	98
72)	Chloroform	16.58	83	535252	5.4922	ppbV	S	100
74)	trans-2-Hexene	16.69	55	391301	5.4578	ppbV	S	99
77)	cis-2-Hexene	17.08	55	320372	5.1206	ppbV	S	99
78)	Methylcyclopentane	17.60	56	414627	5.3918	ppbV	S	100
79)	1,2-Dichloroethane	17.63	62	410840	5.8224	ppbV	S	99
80)	2,4-Dimethylpentane	17.78	43	512055	5.4158	ppbV	S	99
81)	1,1,1-Trichloroethane	17.97	97	697219	5.7676	ppbV	S	99
84)	Benzene	18.65	78	541052	5.4041	ppbV	S	100
85)	Carbon tetrachloride	18.87	117	784296	5.8370	ppbV	S	100
86)	1-Butanol	18.82	56	79056	4.5489	ppbV	S	98
87)	Cyclohexane	19.05	56	352247	5.4482	ppbV	S	99
88)	Isoheptane	19.43	43	539754	5.2504	ppbV	S	98
89)	2,3-Dimethylpentane	19.51	56	417444	5.0896	ppbV	S	100
91)	3-Methylhexane	19.81	43	424769	5.2508	ppbV	S	99
92)	1,2-Dichloropropane	19.91	63	178891	6.0250	ppbV	S	98
93)	Bromodichloromethane	20.23	83	480076	5.6986	ppbV	S	98
94)	Trichloroethene	20.30	130	351835	5.2748	ppbV	S	98
95)	1,4-Dioxane	20.34	88	43479	3.3630	ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.38	57	1114147	5.2499	ppbV	S	99
98)	2-Chloropentane	20.61	70	272317	6.1668	ppbV	S	99
100)	n-Heptane	20.85	71	220530	5.4041	ppbV	S	98
104)	cis-1,3-Dichloropropene	21.68	75	284057	6.2292	ppbV	S	99
105)	Methylisobutylketone	21.77	43	480454	6.6269	ppbV	S	99
106)	Methylcyclohexane	21.77	83	422082	5.2848	ppbV	S	99
110)	trans-1,3-Dichloropropene	22.55	75	294167	6.8878	ppbV	S	99
111)	1,1,2-Trichloroethane	22.78	97	198972	6.3432	ppbV	S	99
112)	2,3,4-Trimethylpentane	23.01	43	680789	5.5536	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110714.D Vial: 14
Acq On : 8 Nov 2011 1:36 am Operator: KDK
Sample : CCV BLEND 500,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:36 19111 Quant Results File: CA111026.RES

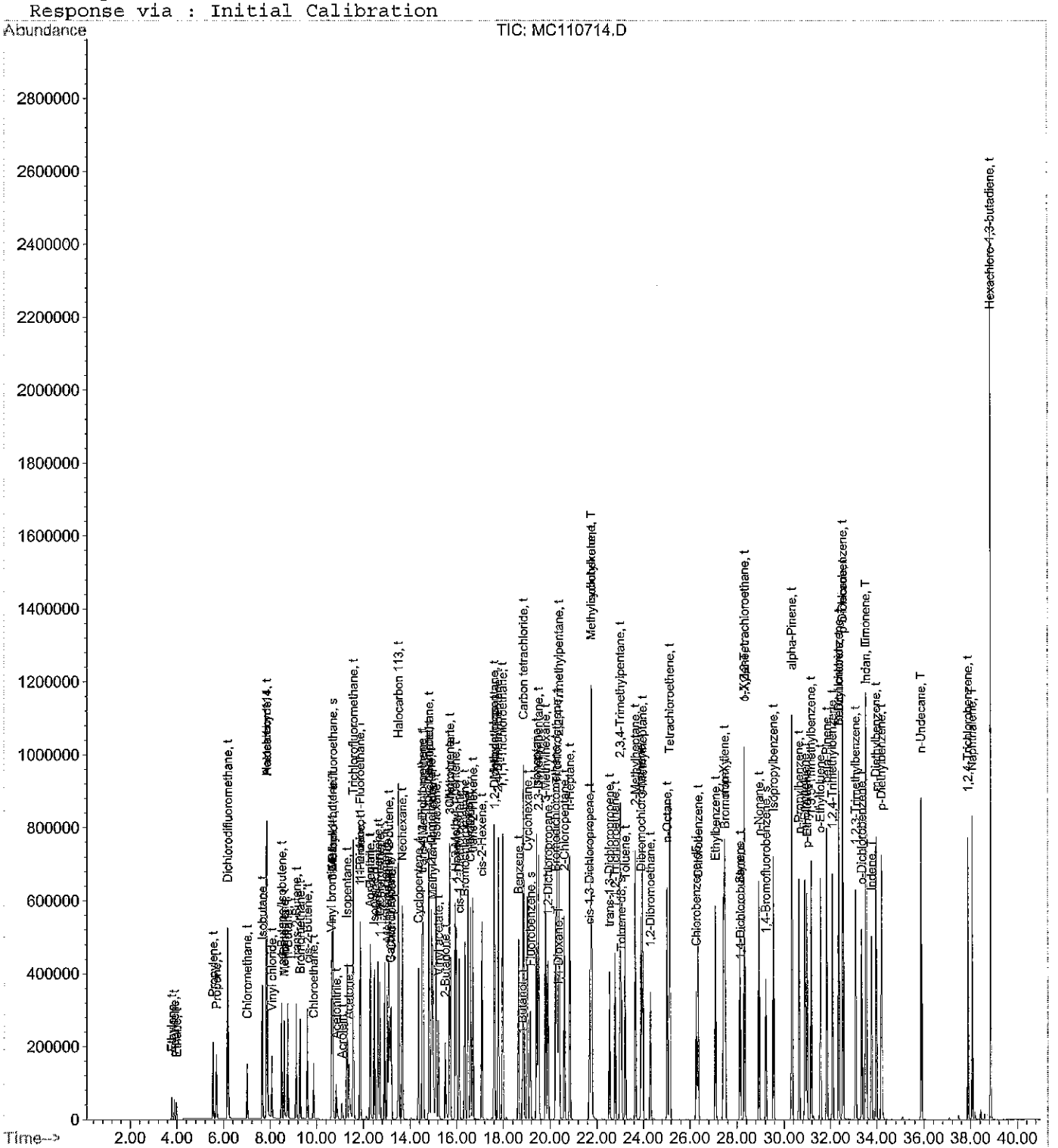
Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
114) Toluene	23.22	91	552604	6.4130 ppbV	S	100
117) 2-Methylheptane	23.66	43	426783	6.0574 ppbV	S	99
119) Dibromochloromethane	23.91	129	444597	6.6013 ppbV	S	98
120) 3-Methylheptane	23.97	85	266249	5.8992 ppbV	S	98
122) 1,2-Dibromoethane	24.30	107	355287	6.1814 ppbV	S	99
125) n-Octane	25.04	43	407847	6.2241 ppbV	S	98
126) Tetrachloroethene	25.14	164	274889	5.6773 ppbV	S	99
128) Chlorobenzene	26.35	112	444430	6.3046 ppbV	S	99
129) Ethylbenzene	27.09	91	656116	6.9944 ppbV	S	99
130) m/p-Xylene	27.46	91	1111122m	13.6480 ppbV	S	
131) Bromoform	27.49	173	305076	7.4569 ppbV	S	99
134) Styrene	28.12	104	377785	7.0600 ppbV	S	99
135) 1,1,2,2-Tetrachloroethane	28.32	83	331486	6.5654 ppbV	S	98
136) o-Xylene	28.33	91	521328	6.9428 ppbV	S	99
140) n-Nonane	28.93	43	377620	6.5764 ppbV	S	99
142) Isopropylbenzene	29.54	105	774084	6.6063 ppbV	S	99
144) alpha-Pinene	30.33	93	701786	6.9742 ppbV	S	99
147) n-Propylbenzene	30.64	91	832370	6.7763 ppbV	S	100
148) m-Ethyltoluene	30.90	105	657005	6.7548 ppbV	S	98
149) p-Ethyltoluene	30.98	105	644959	6.8064 ppbV	S	100
150) 1,3,5-Trimethylbenzene	31.18	105	656946	7.4237 ppbV	S	99
151) o-Ethyltoluene	31.57	105	683026	6.8088 ppbV	S	99
152) beta-Pinene	31.85	93	498825	4.9796 ppbV	S	99
153) 1,2,4-Trimethylbenzene	32.10	105	626170	7.6140 ppbV	S	100
156) Benzyl chloride	32.37	91	439669	7.5566 ppbV	S	99
157) m-Dichlorobenzene	32.37	146	405136	7.0085 ppbV	S	99
158) n-Decane	32.54	57	366387	6.8534 ppbV	S	99
159) p-Dichlorobenzene	32.55	146	389962	6.8981 ppbV	S	98
161) 1,2,3-Trimethylbenzene	33.10	105	607948	7.0325 ppbV	S	99
163) o-Dichlorobenzene	33.36	146	359675	7.1279 ppbV	S	99
164) Limonene	33.53	68	284621	7.3002 ppbV	S	99
165) Indan	33.55	117	549077	7.0875 ppbV	S	99
166) Indene	33.78	115	458731	7.1550 ppbV	S	97
167) m-Diethylbenzene	33.98	105	440062	7.1985 ppbV	S	99
168) p-Diethylbenzene	34.21	119	439214	7.5668 ppbV	S	99
171) n-Undecane	35.89	57	478900	8.2141 ppbV	S	99
172) 1,2,4-Trichlorobenzene	37.88	180	283058	10.9262 ppbV	S	99
173) Naphthalene	38.07	128	846072	11.0888 ppbV	S	99
174) Hexachloro-1,3-butadiene	38.85	225	457215	11.9400 ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110714.D Vial: 14
Acq On : 8 Nov 2011 1:36 am Operator: KDK
Sample : CCV BLEND 500,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:36 19111 Quant Results File: CA111026.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110715.D Vial: 15
Acq On : 8 Nov 2011 2:37 am Operator: KDK
Sample : CCV BLEND 750,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:40 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.83	81	332665	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.27	117	314448	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.69	83	141715	2.0533 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 102.50%	
65) Fluorobenzene	19.16	96	367997	1.9892 ppbV	-0.02
Spiked Amount 2.000			Recovery	= 99.50%	
113) Toluene-d8	23.06	98	314488	1.8625 ppbV	0.00
Spiked Amount 2.000			Recovery	= 93.00%	
115) 1,4-Dichlorobutane	28.15	90	23988	1.9122 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.50%	
141) 1,4-Bromofluorobenzene	29.23	95	228407	2.0459 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.50%	

Target Compounds					Qvalue
3) Ethylene	3.79	26	85330	7.6650 ppbV	S 100
4) Acetylene	3.89	26	137369	9.0993 ppbV	S 99
5) Ethane	3.98	26	56082	7.4216 ppbV	S 98
7) Propylene	5.54	41	241030	8.6281 ppbV	S 99
9) Propane	5.69	43	104790	8.1353 ppbV	S 98
10) Dichlorodifluoromethane	6.18	85	1269491	8.5282 ppbV	S 99
11) Chloromethane	7.00	50	288539	8.5111 ppbV	S 99
12) Isobutane	7.64	43	626683	8.3097 ppbV	S 99
13) Halocarbon 114	7.84	85	1070756	8.0893 ppbV	S 93
14) Acetaldehyde	7.81	44	129242m	8.5937 ppbV	S
15) Vinyl chloride	8.06	62	311426	8.2760 ppbV	S 99
16) 1-Butene/Isobutene	8.50	41	370299	7.4716 ppbV	S 99
17) 1,3-Butadiene	8.60	39	235644	7.8524 ppbV	S 97
18) n-Butane	8.75	43	455775	7.5116 ppbV	S 99
19) Methanol	8.60	31	38710m	4.5892 ppbV	S
20) trans-2-Butene	9.12	41	314393	7.1118 ppbV	S 99
23) Bromomethane	9.29	94	312646	8.2280 ppbV	S 99
24) cis-2-Butene	9.59	41	327636	7.5678 ppbV	S 98
25) Chloroethane	9.85	64	144154	7.5069 ppbV	S 98
26) Vinyl bromide	10.63	106	282949	7.7422 ppbV	S 98
27) 3-Methyl-1-butene	10.66	55	669923	8.2335 ppbV	S 99
28) Ethanol	10.68	45	51647	5.3666 ppbV	S 79
29) Acetonitrile	10.83	41	233019	9.4507 ppbV	S 99
30) Acrolein	11.06	56	92446	11.6519 ppbV	S 99
31) Isopentane	11.28	41	400281	7.9464 ppbV	S 99
32) Trichlorofluoromethane	11.55	101	1294548	8.3303 ppbV	S 100
33) 1-Pentene	11.86	42	332685	6.9840 ppbV	S 99
34) Acetone	11.34	43	602834m	10.6521 ppbV	S
36) Acrylonitrile	12.26	52	167832	10.5471 ppbV	S 95
37) n-Pentane	12.27	43	439321	6.9354 ppbV	S 98
39) Isoprene	12.45	67	303319	7.4353 ppbV	S 99
40) trans-2-Pentene	12.60	55	507952	7.5227 ppbV	S 100
41) 1,1-Dichloroethene	12.69	61	438410	6.9406 ppbV	S 99
42) cis-2-Pentene	12.90	55	517960	7.6256 ppbV	S 99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110715.D Vial: 15
Acq On : 8 Nov 2011 2:37 am Operator: KDK
Sample : CCV BLEND 750,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:40 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	13.02	49	405259	8.1284	ppbV	S	98
44)	2-Methyl-2-butene	13.08	55	585965	8.1492	ppbV	S	99
45)	Carbon Disulfide	13.14	76	791585m	7.2939	ppbV	S	
46)	3-Chloropropene	13.19	41	358410	8.2795	ppbV	S	99
47)	Halocarbon 113	13.49	151	680242	8.7120	ppbV	S	95
48)	Neohexane	13.65	43	525027	8.2726	ppbV	S	98
49)	Cyclopentene	14.36	67	578453	7.2990	ppbV	S	99
50)	trans-1,2-Dichloroethene	14.51	61	520441	8.2886	ppbV	S	99
51)	4-Methyl-1-pentene	14.55	43	524724	7.9978	ppbV	S	99
53)	1,1-Dichloroethane	14.80	63	636615	8.2339	ppbV	S	100
54)	Cyclopentane	14.80	42	542933	7.4988	ppbV	S	99
55)	2,3-Dimethylbutane	14.90	43	814778	8.0773	ppbV	S	99
56)	Methyl tert-butyl ether	14.97	73	1031578	9.8621	ppbV	S	91
57)	Isohexane	15.11	42	430047	8.1035	ppbV	S	99
58)	Vinyl acetate	15.21	43	882639	11.5441	ppbV	S	100
62)	2-Butanone	15.49	43	657782	11.3193	ppbV	S	99
63)	Chloroprene	15.68	53	639894	8.2403	ppbV	S	99
64)	3-Methylpentane	15.71	57	625530	7.9652	ppbV	S	100
66)	2-Methyl-1-pentene	15.94	56	573585	8.2315	ppbV	S	98
67)	1-Hexene	15.98	41	383641m	7.9182	ppbV	S	
68)	cis-1,2-Dichloroethene	16.11	61	520824	8.4992	ppbV	S	99
69)	Bromochloromethane	16.34	130	364063	8.6114	ppbV	S	94
71)	n-Hexane	16.46	57	564771	8.5287	ppbV	S	99
72)	Chloroform	16.57	83	883107	8.4510	ppbV	S	99
74)	trans-2-Hexene	16.68	55	645986	8.4030	ppbV	S	99
77)	cis-2-Hexene	17.07	55	527008	7.8558	ppbV	S	99
78)	Methylcyclopentane	17.59	56	668905	8.1124	ppbV	S	99
79)	1,2-Dichloroethane	17.62	62	668918	8.8411	ppbV	S	99
80)	2,4-Dimethylpentane	17.78	43	828736	8.1746	ppbV	S	99
81)	1,1,1-Trichloroethane	17.97	97	1150836	8.8786	ppbV	S	98
84)	Benzene	18.65	78	916848	8.4263	ppbV	S	99
85)	Carbon tetrachloride	18.87	117	1293755	8.8596	ppbV	S	98
86)	1-Butanol	18.81	56	108798	5.7603	ppbV	S	97
87)	Cyclohexane	19.04	56	570035	8.1126	ppbV	S	99
88)	Isoheptane	19.42	43	870040	7.7875	ppbV	S	99
89)	2,3-Dimethylpentane	19.50	56	673782	7.5590	ppbV	S	99
91)	3-Methylhexane	19.80	43	683250	7.7716	ppbV	S	98
92)	1,2-Dichloropropane	19.90	63	303280	9.3988	ppbV	S	99
93)	Bromodichloromethane	20.23	83	808741	8.8333	ppbV	S	99
94)	Trichloroethene	20.29	130	597757	8.2462	ppbV	S	97
95)	1,4-Dioxane	20.33	88	64560	4.5948	ppbV #	S	78
97)	2,2,4-Trimethylpentane	20.37	57	1807350	7.8362	ppbV	S	100
98)	2-Chloropentane	20.60	70	478530	9.9714	ppbV	S	98
100)	n-Heptane	20.84	71	360296	8.1241	ppbV	S	97
104)	cis-1,3-Dichloropropene	21.68	75	492578	9.9395	ppbV	S	99
105)	Methylisobutylketone	21.77	43	798212	10.1306	ppbV	S	99
106)	Methylcyclohexane	21.76	83	698328	8.0454	ppbV	S	98
110)	trans-1,3-Dichloropropene	22.54	75	525887	11.3302	ppbV	S	98
111)	1,1,2-Trichloroethane	22.78	97	352734	10.3473	ppbV	S	96
112)	2,3,4-Trimethylpentane	23.01	43	1113210	8.3560	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110715.D Vial: 15
Acq On : 8 Nov 2011 2:37 am Operator: KDK
Sample : CCV BLEND 750,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:40 19111 Quant Results File: CA111026.RES

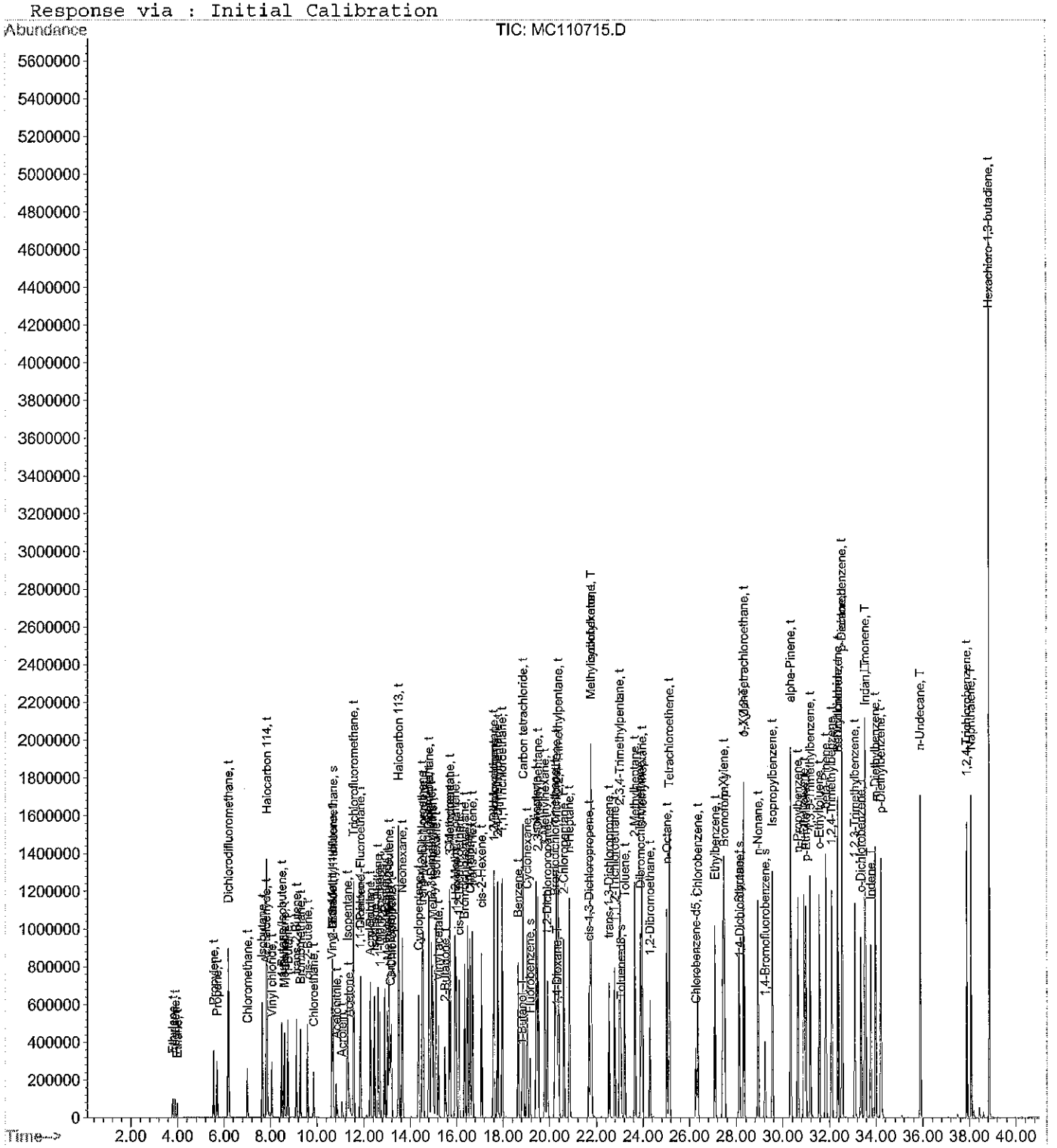
Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
114)	Toluene	23.22	91	976342	10.4258	ppbV	S	99
117)	2-Methylheptane	23.65	43	720073	9.4040	ppbV	S	99
119)	Dibromochloromethane	23.90	129	798656	10.9114	ppbV	S	98
120)	3-Methylheptane	23.98	85	467206	9.5252	ppbV	S	92
122)	1,2-Dibromoethane	24.30	107	636862	10.1955	ppbV	S	99
125)	n-Octane	25.03	43	702337	9.8624	ppbV	S	97
126)	Tetrachloroethene	25.14	164	488182	9.2774	ppbV	S	97
128)	Chlorobenzene	26.35	112	791721	10.3344	ppbV	S	98
129)	Ethylbenzene	27.09	91	1168160	11.4586	ppbV	S	99
130)	m/p-Xylene	27.46	91	1965198m	22.2111	ppbV	S	
131)	Bromoform	27.49	173	562560	12.6526	ppbV	S	97
134)	Styrene	28.12	104	684051	11.7627	ppbV	S	99
135)	1,1,2,2-Tetrachloroethane	28.33	83	580281	10.5753	ppbV	S	99
136)	o-Xylene	28.33	91	918421	11.2545	ppbV	S	98
140)	n-Nonane	28.93	43	667159	10.6910	ppbV	S	98
142)	Isopropylbenzene	29.55	105	1415519	11.1159	ppbV	S	98
144)	alpha-Pinene	30.33	93	1276232	11.6702	ppbV	S	98
147)	n-Propylbenzene	30.64	91	1484451	11.1199	ppbV	S	99
148)	m-Ethyltoluene	30.90	105	1192455	11.2809	ppbV	S	99
149)	p-Ethyltoluene	30.98	105	1170560	11.3667	ppbV	S	98
150)	1,3,5-Trimethylbenzene	31.18	105	1193524	12.4102	ppbV	S	98
151)	o-Ethyltoluene	31.57	105	1244973	11.4196	ppbV	S	98
152)	beta-Pinene	31.84	93	906605	8.3276	ppbV	S	98
153)	1,2,4-Trimethylbenzene	32.10	105	1141647	12.7735	ppbV	S	98
156)	Benzyl chloride	32.37	91	796232	12.5922	ppbV	S	99
157)	m-Dichlorobenzene	32.38	146	752266	11.9744	ppbV	S	97
158)	n-Decane	32.54	57	670700	11.5439	ppbV	S	97
159)	p-Dichlorobenzene	32.55	146	728571	11.8587	ppbV	S	98
161)	1,2,3-Trimethylbenzene	33.11	105	1130459	12.0325	ppbV	S	98
163)	o-Dichlorobenzene	33.37	146	684621	12.4841	ppbV	S	98
164)	Limonene	33.53	68	519746	12.2665	ppbV	S	98
165)	Indan	33.56	117	1020792	12.1242	ppbV	S	99
166)	Indene	33.78	115	854258	12.2602	ppbV	S	98
167)	m-Diethylbenzene	33.98	105	833189	12.5409	ppbV	S	98
168)	p-Diethylbenzene	34.21	119	856986	13.5852	ppbV	S	98
171)	n-Undecane	35.89	57	916959	14.4717	ppbV	S	99
172)	1,2,4-Trichlorobenzene	37.88	180	600823	21.3402	ppbV	S	98
173)	Naphthalene	38.07	128	1769457	21.3391	ppbV	S	100
174)	Hexachloro-1,3-butadiene	38.85	225	925414	22.2371	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110715.D Vial: 15
Acq On : 8 Nov 2011 2:37 am Operator: KDK
Sample : CCV BLEND 750,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:40 19111 Quant Results File: CA111026.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110716.D Vial: 16
Acq On : 8 Nov 2011 3:40 am Operator: KDK
Sample : CCV BLEND 1000,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:42 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.83	81	347140	2.0000 ppbV	-0.02
82) Chlorobenzene-d5	26.27	117	253162	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.69	83	123414	1.7136 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 85.50%	
65) Fluorobenzene	19.16	96	270521	1.4014 ppbV	-0.01
Spiked Amount 2.000			Recovery	= 70.00%	
113) Toluene-d8	23.06	98	268431	1.9746 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.50%	
115) 1,4-Dichlorobutane	28.16	90	20551	2.0348 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
141) 1,4-Bromofluorobenzene	29.23	95	191133	2.1265 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.50%	

Target Compounds					Qvalue
3) Ethylene	3.79	26	128157	11.0321 ppbV	S 100
4) Acetylene	3.90	26	216166	13.7217 ppbV	S 98
5) Ethane	3.98	26	83773	10.6239 ppbV	S 96
7) Propylene	5.54	41	361408	12.3977 ppbV	S 99
9) Propane	5.69	43	159454	11.8629 ppbV	S 99
10) Dichlorodifluoromethane	6.18	85	1901135	12.2390 ppbV	S 98
11) Chloromethane	7.00	50	388598	10.9846 ppbV	S 99
12) Isobutane	7.64	43	840914	10.6854 ppbV	S 100
13) Halocarbon 114	7.83	85	1568691	11.3569 ppbV	S 90
14) Acetaldehyde	7.80	44	181313m	11.5534 ppbV	S
15) Vinyl chloride	8.06	62	419040	10.6714 ppbV	S 99
16) 1-Butene/Isobutene	8.50	41	477522	9.2333 ppbV	S 98
17) 1,3-Butadiene	8.60	39	303139	9.6803 ppbV	S 95
18) n-Butane	8.75	43	576281	9.1016 ppbV	S 98
19) Methanol	8.85	31	63390m	7.2017 ppbV	S
20) trans-2-Butene	9.13	41	390742	8.4703 ppbV	S 100
23) Bromomethane	9.29	94	415637	10.4823 ppbV	S 97
24) cis-2-Butene	9.59	41	405400	8.9736 ppbV	S 98
25) Chloroethane	9.85	64	166998	8.3339 ppbV	S 98
26) Vinyl bromide	10.64	106	357327	9.3697 ppbV	S 98
27) 3-Methyl-1-butene	10.66	55	877939	10.3401 ppbV	S 98
28) Ethanol	10.93	45	76899m	7.6573 ppbV	S
29) Acetonitrile	10.86	41	292972	11.3868 ppbV	S 99
30) Acrolein	11.06	56	119800	14.4700 ppbV	S 99
31) Isopentane	11.28	41	485079	9.2283 ppbV	S 98
32) Trichlorofluoromethane	11.55	101	1846550	11.3870 ppbV	S 98
33) 1-Pentene	11.86	42	402223	8.0917 ppbV	S 98
34) Acetone	11.37	43	800956	13.5628 ppbV	S 100
36) Acrylonitrile	12.27	52	214442	12.9143 ppbV	S 100
37) n-Pentane	12.27	43	512238	7.7493 ppbV	S 98
39) Isoprene	12.45	67	370195	8.6963 ppbV	S 100
40) trans-2-Pentene	12.60	55	616227	8.7457 ppbV	S 98
41) 1,1-Dichloroethene	12.69	61	503230	7.6346 ppbV	S 98
42) cis-2-Pentene	12.90	55	615818	8.6882 ppbV	S 98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110716.D Vial: 16
Acq On : 8 Nov 2011 3:40 am Operator: KDK
Sample : CCV BLEND 1000,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:42 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	13.02	49	477610	9.1801	ppbV	S	98
44)	2-Methyl-2-butene	13.08	55	708893	9.4477	ppbV	S	98
45)	Carbon Disulfide	13.14	76	795596	7.0252	ppbV	S	100
46)	3-Chloropropene	13.19	41	402928	8.9198	ppbV	S	94
47)	Halocarbon 113	13.49	151	1015415	12.4624	ppbV	S	87
48)	Neohexane	13.65	43	626678	9.4626	ppbV	S	97
49)	Cyclopentene	14.36	67	668822	8.0874	ppbV	S	100
50)	trans-1,2-Dichloroethene	14.52	61	592381	9.0409	ppbV	S	93
51)	4-Methyl-1-pentene	14.55	43	624490	9.1216	ppbV	S	99
53)	1,1-Dichloroethane	14.81	63	791589	9.8114	ppbV	S	100
54)	Cyclopentane	14.80	42	642580	8.5051	ppbV	S	97
55)	2,3-Dimethylbutane	14.90	43	955531	9.0776	ppbV	S	99
56)	Methyl tert-butyl ether	14.98	73	1299347	11.9041	ppbV	S	96
57)	Isohexane	15.11	42	505569	9.1294	ppbV	S	97
58)	Vinyl acetate	15.22	43	1133667	14.2091	ppbV	S	97
62)	2-Butanone	15.51	43	842894	13.9000	ppbV	S	98
63)	Chloroprene	15.68	53	751823	9.2779	ppbV	S	93
64)	3-Methylpentane	15.70	57	825713	10.0758	ppbV	S	93
66)	2-Methyl-1-pentene	15.93	56	699386	9.6184	ppbV	S	93
67)	1-Hexene	15.97	41	442440m	8.7510	ppbV	S	
68)	cis-1,2-Dichloroethene	16.11	61	624193	9.7613	ppbV	S	89
69)	Bromochloromethane	16.34	130	397446	9.0090	ppbV	S	95
71)	n-Hexane	16.46	57	587168	8.4972	ppbV	S	96
72)	Chloroform	16.58	83	1009185	9.2548	ppbV	S	98
74)	trans-2-Hexene	16.68	55	672470	8.3827	ppbV	S	99
77)	cis-2-Hexene	17.07	55	559559	7.9932	ppbV	S	99
78)	Methylcyclopentane	17.59	56	685724	7.9696	ppbV	S	96
79)	1,2-Dichloroethane	17.62	62	770863	9.7636	ppbV	S	98
80)	2,4-Dimethylpentane	17.77	43	885669	8.3719	ppbV	S	98
81)	1,1,1-Trichloroethane	17.97	97	1287998	9.5225	ppbV	S	100
84)	Benzene	18.64	78	994405	11.3515	ppbV	S	99
85)	Carbon tetrachloride	18.87	117	1460363	12.4215	ppbV	S	99
86)	1-Butanol	18.82	56	107464	7.0671	ppbV	S	97
87)	Cyclohexane	19.04	56	611242	10.8050	ppbV	S	97
88)	Isoheptane	19.42	43	965037	10.7288	ppbV	S	98
89)	2,3-Dimethylpentane	19.49	56	761371	10.6094	ppbV	S	98
91)	3-Methylhexane	19.80	43	765324	10.8125	ppbV	S	97
92)	1,2-Dichloropropane	19.91	63	344889	13.2757	ppbV	S	92
93)	Bromodichloromethane	20.23	83	946823	12.8450	ppbV	S	98
94)	Trichloroethene	20.29	130	614987	10.5377	ppbV	S	99
95)	1,4-Dioxane	20.33	88	105723	9.3459	ppbV	S	92
97)	2,2,4-Trimethylpentane	20.37	57	1996642	10.7526	ppbV	S	98
98)	2-Chloropentane	20.60	70	553584	14.3278	ppbV	S	98
100)	n-Heptane	20.84	71	395243	11.0695	ppbV	S	96
104)	cis-1,3-Dichloropropene	21.68	75	580870	14.5585	ppbV	S	97
105)	Methylisobutylketone	21.77	43	983570	15.5050	ppbV	S	95
106)	Methylcyclohexane	21.76	83	769095	11.0057	ppbV	S	98
110)	trans-1,3-Dichloropropene	22.54	75	655862	17.5513	ppbV	S	99
111)	1,1,2-Trichloroethane	22.78	97	414622	15.1071	ppbV	S	98
112)	2,3,4-Trimethylpentane	23.01	43	1286282	11.9925	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110716.D Vial: 16
Acq On : 8 Nov 2011 3:40 am Operator: KDK
Sample : CCV BLEND 1000,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:42 19111 Quant Results File: CA111026.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration
DataAcq Meth : CA111026

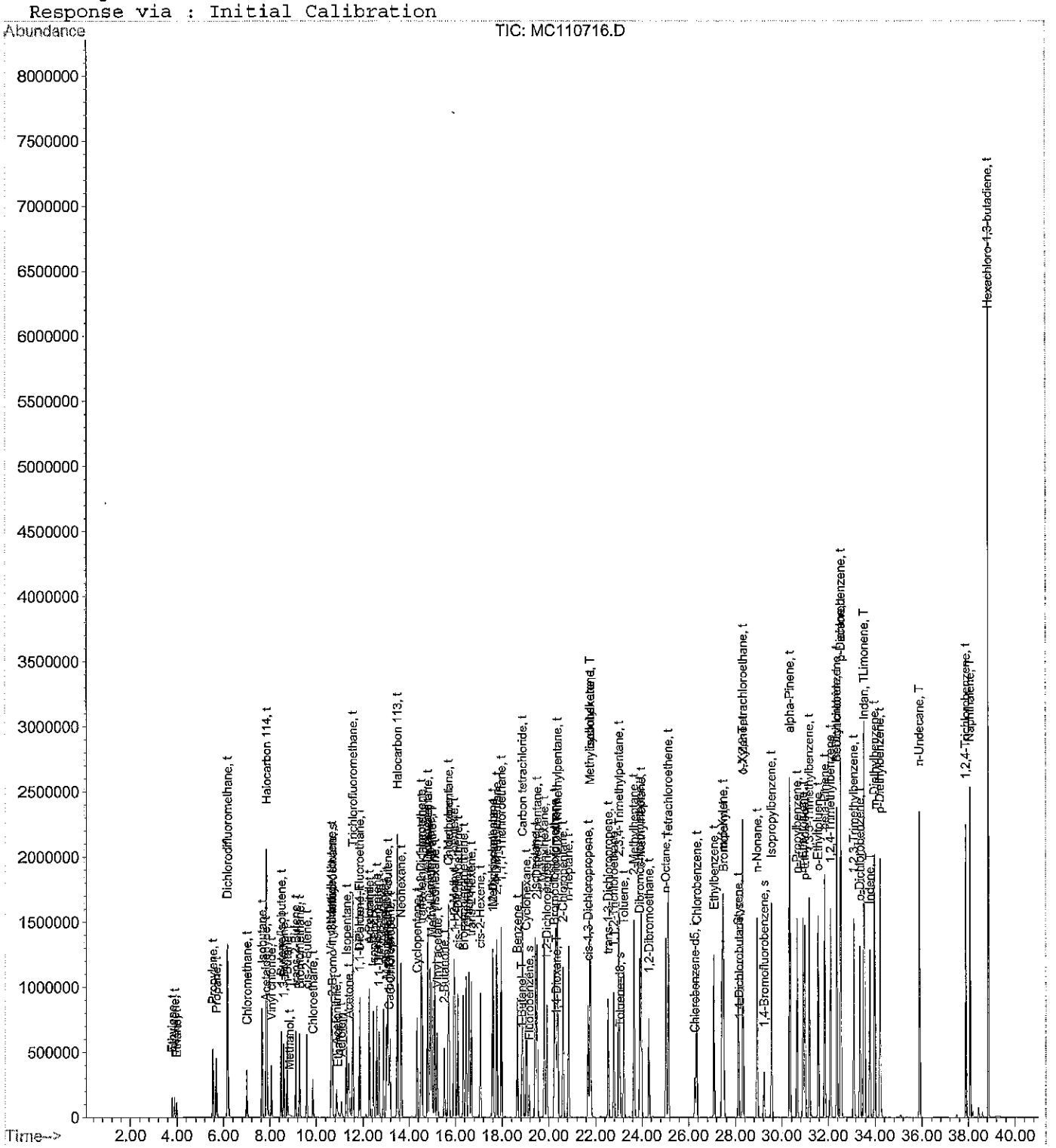
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
114)	Toluene	23.22	91	1159038	15.3728 ppbV	S	99
117)	2-Methylheptane	23.65	43	865691	14.0427 ppbV	S	98
119)	Dibromochloromethane	23.91	129	972581	16.5043 ppbV	S	99
120)	3-Methylheptane	23.97	85	545671	13.8180 ppbV	S	97
122)	1,2-Dibromoethane	24.30	107	767250	15.2563 ppbV	S	99
125)	n-Octane	25.03	43	859807	14.9964 ppbV	S	96
126)	Tetrachloroethene	25.14	164	556540	13.1368 ppbV	S	99
128)	Chlorobenzene	26.35	112	936497	15.1834 ppbV	S	99
129)	Ethylbenzene	27.09	91	1410617	17.1866 ppbV	S	99
130)	m/p-Xylene	27.46	91	2424422m	34.0348 ppbV	S	
131)	Bromoform	27.49	173	709610	19.8235 ppbV	S	99
134)	Styrene	28.12	104	843596	18.0179 ppbV	S	99
135)	1,1,2,2-Tetrachloroethane	28.33	83	731974	16.5692 ppbV	S	98
136)	o-Xylene	28.33	91	1136726	17.3017 ppbV	S	99
140)	n-Nonane	28.94	43	876550	17.4469 ppbV	S	97
142)	Isopropylbenzene	29.55	105	1770453	17.2688 ppbV	S	99
144)	alpha-Pinene	30.33	93	1635337	18.5741 ppbV	S	99
147)	n-Propylbenzene	30.64	91	1930498	17.9620 ppbV	S	100
148)	m-Ethyltoluene	30.90	105	1577213	18.5329 ppbV	S	99
149)	p-Ethyltoluene	30.98	105	1523636	18.3769 ppbV	S	100
150)	1,3,5-Trimethylbenzene	31.18	105	1569389	20.2689 ppbV	S	98
151)	o-Ethyltoluene	31.57	105	1618983	18.4453 ppbV	S	99
152)	beta-Pinene	31.85	93	1169000	13.3373 ppbV	S	98
153)	1,2,4-Trimethylbenzene	32.10	105	1531828	21.2882 ppbV	S	99
156)	Benzyl chloride	32.38	91	1119513	21.9908 ppbV	S	98
157)	m-Dichlorobenzene	32.38	146	1007933	19.9280 ppbV	S	98
158)	n-Decane	32.55	57	924717	19.7689 ppbV	S	98
159)	p-Dichlorobenzene	32.55	146	1004888	20.3158 ppbV	S	98
161)	1,2,3-Trimethylbenzene	33.11	105	1521576	20.1161 ppbV	S	99
163)	o-Dichlorobenzene	33.37	146	919934	20.8360 ppbV	S	98
164)	Limonene	33.54	68	703692	20.6282 ppbV	S	98
165)	Indan	33.56	117	1411789	20.8274 ppbV	S	99
166)	Indene	33.78	115	1191176	21.2342 ppbV	S	97
167)	m-Diethylbenzene	33.98	105	1178177	22.0266 ppbV	S	99
168)	p-Diethylbenzene	34.22	119	1232122	24.2604 ppbV	S	97
171)	n-Undecane	35.89	57	1284378	25.1776 ppbV	S	99
172)	1,2,4-Trichlorobenzene	37.89	180	883712	38.9864 ppbV	S	98
173)	Naphthalene	38.07	128	2581000	38.6611 ppbV	S	100
174)	Hexachloro-1,3-butadiene	38.85	225	1348568	40.2499 ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111107\MC110716.D Vial: 16
Acq On : 8 Nov 2011 3:40 am Operator: KDK
Sample : CCV BLEND 1000,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 9:42 19111 Quant Results File: CA111026.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 16:15:58 2011
Response via : Initial Calibration



Data by Analytical Batch (s)

INSTRUMENT GCMS-R1 ANALYST / DATE: LW 11/8/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: Batch ID: HK0093

DAILY CHECK —	INSERT: CHANGED (Y / N)	SEPTA: CHANGED (Y / N)	COLUMN: CHANGED (Y / N)	AUTOSAMPLER MAINT. —
M. PUMP OIL —	TURBO OIL NA —	FILAMENT CHANGE NO	OTHER —	
NO MAINTENANCE REQUIRED: —			RETURNED TO SERVICE: —	

DAILY CHECK includes sufficient carrier and detector gases, correct column flow/pressure, condition of septa, etc. Glass insert, septa, column and gases changed as needed. Source cleaned as needed. Mechanical pump oil and turbomolecular pump oil changed semiannually (usually on service contract). OTHER is for minor maintenance performed or for reference to Repair Log for major repairs.

MASS SPECTROMETER CONDITIONS:
Tune File: R1026 M.u Elect Mult. 1812 volts Sampling Rate 1 6 Scan Range 1 23.0-27.0
Sampling Rate 2 4 Scan Range 2 29.0-175 Sampling Rate 3 3 Scan Range 3 33-275
Tuning Performance (circle one): BFB Autotune Other Interface: Entech

GC PROGRAM:
GC Meth. RAH1026.M Initial Temp. -50 °C Final Hold 0.0 min Inj. Temp. 100 °C Init.Hold 3.0 min
Carrier Gas: Helium Ramp 1 15.0 °C/min to 0°C Flow/Pressure 1.6 mL/min Final Temp. 240 °C
Ramp 2 5°C to 150°C
Ramp 3 35°C to 240°C
Other Program or Special Conditions:

GC COLUMN:
Column ID#: MSVOCID015 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID:

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
1	Warmup	RA1748	0.5L	4	RH0801	0.07057	VTC-VSP 34-64
2	HK0093-CCV1	↓	↓	4	02	↓	↓
3	-BS1	RA1821	↓	8	03	0.0851	VTC-VSP 34-60
4	-BSD1	↓	↓	8	04	↓	↓
5	-BLK1	RA2183	0.5L	12	05	1.0	MB Leaking? Not used
6	AUJ0044-01	34558	0.1L	11	06	↓	
7	02	RA1889	↓	12	07	↓	
8	AUJ0048-01	35702	↓	13	08	↓	
9	02	35698	0.1L	14	09	1.0	

Austin Laboratory
Instrument Sequence (continued)

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
10	AVJ0048-03	35696	0.82	15	R110816	1.0	
11	AVJ0281-01	RA0884		1	11	2.1757	
12	02	Rf2257		2	12	2.6253	
13	03	Rf2263		3	13	2.3357	
14	04	1001		4	14	2.5826	
15	05	5425	0.82	5	15	2.4976	
16	06	Rf2328		6	16	2.5496	
17	07	RA2300		7	17	3.1538	
18	08	Rf2251		8	18	2.7007	
19	09	RA0844		9	19	2.6506	
20	Dup1		0.82	9	20		
21	10	5403		10	21	2.6729	
22	Dup2			10	22		
23	BLK0098-BLK1	A20936		11	23	1.0	MB
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

```
   Sequence Name: C:\msdchem\1\sequence\R111108.S
         Comment:
        Operator: KRW
       Data Path: C:\MSDCHEM\1\DATA\R111108\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

   ----------------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1)  Sample        1  RA110801 RA111026 WARMUP
 2)  Sample        1  RA110802 RA111026 11K0093-CCV1,,,,0.01057;CCAL
 3)  Sample        1  RA110803 RA111026 11K0093-BS1,,,,0.01051;LCS
 4)  Sample        1  RA110804 RA111026 11K0093-BSD1,,,,0.01051;LCS
 5)  Sample        1  RA110805 RA111026 11K0093-BLK1
 6)  Sample        1  RA110806 RA111026 AUJ0044-01
 7)  Sample        1  RA110807 RA111026 AUJ0044-02
 8)  Sample        1  RA110808 RA111026 AUJ0048-01
 9)  Sample        1  RA110809 RA111026 AUJ0048-02
10)  Sample        1  RA110810 RA111026 AUJ0048-03
11)  Sample        1  RA110811 RA111026 AUJ0241-01,,,,;TCESL
12)  Sample        1  RA110812 RA111026 AUJ0241-02,,,,;TCESL
13)  Sample        1  RA110813 RA111026 AUJ0241-03,,,,;TCESL
14)  Sample        1  RA110814 RA111026 AUJ0241-04,,,,;TCESL
15)  Sample        1  RA110815 RA111026 AUJ0241-05,,,,;TCESL
16)  Sample        1  RA110816 RA111026 AUJ0241-06,,,,;TCESL
17)  Sample        1  RA110817 RA111026 AUJ0241-07,,,,;TCESL
18)  Sample        1  RA110818 RA111026 AUJ0241-08,,,,;TCESL
19)  Sample        1  RA110819 RA111026 AUJ0241-09,,,,;TCESL
20)  Sample        1  RA110820 RA111026 11K0093-DUP1,,,,;TCESL
21)  Sample        1  RA110821 RA111026 AUJ0241-10,,,,;TCESL
22)  Sample        1  RA110822 RA111026 11K0093-DUP2,,,,;TCESL
23)  Sample        1  RA110823 RA111026 11K0093-BLK1
```

----------SEQUENCE TABLE ----------

Sequence Name: C:\Smart\R111108.SEQ
Date: 11-09-2011
Time: 08:38:00
Int. Std Volume: 200 cc

11/9/11
KW

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
WARMUP	1	4	500	0	C:\Smart\R091711A.MPT	12:00
11K0093-CCV1	1	4	500	0	C:\Smart\R091711A.MPT	12:00
11K0093-BS1	1	8	500	0	C:\Smart\R091711A.MPT	12:00
11K0093-BSD1	1	8	500	0	C:\Smart\R091711A.MPT	12:00
11K0093-BLK1	1	12	500	0	C:\Smart\R091711A.MPT	12:00 - not used
AUJ0044-01	1	11	100	0	C:\Smart\R091711A.MPT	12:00
AUJ0044-02	1	12	100	0	C:\Smart\R091711A.MPT	12:00
AUJ0048-01	1	13	100	0	C:\Smart\R091711A.MPT	12:00
AUJ0048-02	1	14	100	0	C:\Smart\R091711A.MPT	12:00
AUJ0048-03	1	15	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-01	1	1	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-02	1	2	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-03	1	3	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-04	1	4	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-05	1	5	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-06	1	6	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-07	1	7	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-08	1	8	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-09	1	9	500	0	C:\Smart\R091711A.MPT	12:00
11K0093-DUP1	1	9	500	0	C:\Smart\R091711A.MPT	12:00
AUJ0241-10	1	10	500	0	C:\Smart\R091711A.MPT	12:00
11K0093-DUP2	1	10	500	0	C:\Smart\R091711A.MPT	12:00
11K0093-BLK1	1	11	500	0	C:\Smart\R091711A.MPT	12:00

BFB

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110802.D Vial: 1
Acq On : 8 Nov 2011 10:52 am Operator: KRW
Sample : 11K0093-CCV1,,,,0.01057;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :

11/8/11
KW

Spectrum Information: Average of 28.886 to 28.925 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.8	5520	PASS
75	95	30	66	42.2	16878	PASS
95	95	100	100	100.0	40020	PASS
96	95	5	9	6.7	2680	PASS
173	174	0.00	2	0.1	27	PASS
174	95	50	120	94.7	37917	PASS
175	174	4	9	7.4	2817	PASS
176	174	93	101	96.3	36503	PASS
177	176	5	9	6.7	2455	PASS

RA110802.D RA111026.M Tue Nov 08 11:52:29 2011 KRW

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110802.D Vial: 1
Acq On : 8 Nov 2011 10:52 am Operator: KRW
Sample : 11K0093-CCV1,,,,0.01057;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 11:56 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

11/8/11 LW

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.49	81	163088	2.0000 ppbV	0.00
82) Chlorobenzene-d5	25.93	117	234809	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.36	83	102201	1.9973 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	
65) Fluorobenzene	18.80	96	304703	1.8101 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.50%	
113) Toluene-d8	22.71	98	281289	2.0169 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	
115) 1,4-Dichlorobutane	27.83	90	29332	2.2616 ppbV	0.00
Spiked Amount 2.000			Recovery	= 113.00%	
141) 1,4-Bromofluorobenzene	28.90	95	131280	2.1468 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	

Target Compounds					Qvalue	
3) Ethylene	2.86	26	27303m	5.6576 ppbV	S	
4) Acetylene	3.44	26	36913	3.9533 ppbV	S	98
5) Ethane	3.51	26	5536	2.7379 ppbV	S	95
7) Propylene	5.09	41	101684	5.4857 ppbV	S	99
9) Propane	5.25	43	45746	5.3804 ppbV	S	97
10) Dichlorodifluoromethane	5.76	85	452453	5.0893 ppbV	S	100
11) Chloromethane	6.61	50	138467	5.6027 ppbV	S	99
12) Isobutane	7.25	43	263466	5.4067 ppbV	S	99
13) Halocarbon 114	7.46	85	530216	5.0590 ppbV	S	95
14) Acetaldehyde	7.45	44	50353	5.8001 ppbV	S	98
15) Vinyl chloride	7.69	62	181141	5.3280 ppbV	S	99
16) 1-Butene/Isobutene	8.12	41	171444	5.5234 ppbV	S	97
17) 1,3-Butadiene	8.23	39	100537	6.0872 ppbV	S	96
18) n-Butane	8.38	43	227171	5.3980 ppbV	S	99
19) Methanol	8.27	31	31851m	6.5443 ppbV	S	
20) trans-2-Butene	8.76	41	154094	5.7233 ppbV	S	96
23) Bromomethane	8.92	94	191710	5.2364 ppbV	S	99
24) cis-2-Butene	9.23	41	163673	6.1710 ppbV	S	96
25) Chloroethane	9.50	64	95403	5.7564 ppbV	S	98
26) Vinyl bromide	10.28	106	217839	5.5605 ppbV	S	98
27) 3-Methyl-1-butene	10.31	55	334620	6.0532 ppbV	S	99
28) Ethanol	10.40	45	57439m	6.5421 ppbV	S	
29) Acetonitrile	10.50	41	115444	7.7284 ppbV	S	99
30) Acrolein	10.73	56	58471	7.3596 ppbV	S	96
31) Isopentane	10.93	41	133240	5.6309 ppbV	S	96
32) Trichlorofluoromethane	11.20	101	414872	5.3134 ppbV	S	100
33) 1-Pentene	11.51	42	177692	6.3009 ppbV	S	93
34) Acetone	11.04	43	193847	7.7651 ppbV	S	100
36) Acrylonitrile	11.94	52	97346	7.5915 ppbV	S	93
37) n-Pentane	11.93	43	245147	5.9452 ppbV	S	99
39) Isoprene	12.10	67	210609	5.7713 ppbV	S	96
40) trans-2-Pentene	12.26	55	281953	6.1963 ppbV	S	98
41) 1,1-Dichloroethene	12.34	61	248975	5.8307 ppbV	S	95
42) cis-2-Pentene	12.55	55	273573	6.0301 ppbV	S	98
43) Methylene chloride	12.68	49	167275	6.3097 ppbV	S	94

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110802.D Vial: 1
Acq On : 8 Nov 2011 10:52 am Operator: KRW
Sample : 11K0093-CCV1,,,,0.01057;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 11:56 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	2-Methyl-2-butene	12.73	55	286291	6.2614	ppbV	S	97
45)	Carbon Disulfide	12.77	76	615412	5.5023	ppbV	S	100
46)	3-Chloropropene	12.84	41	136432	5.9921	ppbV	S	95
47)	Halocarbon 113	13.14	151	323224	5.4543	ppbV	S	97
48)	Neohexane	13.29	43	192240	5.9276	ppbV	S	94
49)	Cyclopentene	13.99	67	381709	5.5233	ppbV	S	99
50)	trans-1,2-Dichloroethene	14.16	61	235965	5.9299	ppbV	S	97
51)	4-Methyl-1-pentene	14.19	43	204159	5.7756	ppbV	S	98
53)	1,1-Dichloroethane	14.45	63	301351	5.9893	ppbV	S	98
54)	Cyclopentane	14.43	42	263139	5.7894	ppbV	S	96
55)	2,3-Dimethylbutane	14.54	43	326379	5.8439	ppbV	S	98
56)	Methyl tert-butyl ether	14.66	73	393682	5.9304	ppbV	S	97
57)	Isohexane	14.75	42	172678	6.1374	ppbV	S	96
58)	Vinyl acetate	14.88	43	343482	7.8017	ppbV	S	99
62)	2-Butanone	15.18	43	264488	7.1888	ppbV	S	95
63)	Chloroprene	15.32	53	200742	5.6574	ppbV	S	97
64)	3-Methylpentane	15.35	57	331169	5.7768	ppbV	S	99
66)	2-Methyl-1-pentene	15.58	56	259363	5.5222	ppbV	S	95
67)	1-Hexene	15.62	41	125783	6.3532	ppbV	S	92
68)	cis-1,2-Dichloroethene	15.75	61	217210	5.9322	ppbV	S	96
69)	Bromochloromethane	15.98	130	171354	5.2936	ppbV	S	94
71)	n-Hexane	16.11	57	262495	5.7611	ppbV	S	97
72)	Chloroform	16.22	83	335693	5.5473	ppbV	S	98
74)	trans-2-Hexene	16.32	55	275762	5.8981	ppbV	S	97
77)	cis-2-Hexene	16.72	55	228164	5.4101	ppbV	S	95
78)	Methylcyclopentane	17.22	56	335566	5.5169	ppbV	S	96
79)	1,2-Dichloroethane	17.26	62	180105	6.1862	ppbV	S	99
80)	2,4-Dimethylpentane	17.42	43	320992	6.1299	ppbV	S	98
81)	1,1,1-Trichloroethane	17.60	97	354990	5.5453	ppbV	S	98
84)	Benzene	18.28	78	516202	6.6513	ppbV	S	99
85)	Carbon tetrachloride	18.49	117	352967	6.0505	ppbV	S	99
86)	1-Butanol	18.51	56	117233	5.9767	ppbV	S	97
87)	Cyclohexane	18.67	56	284427	6.6062	ppbV	S	95
88)	Isoheptane	19.06	43	350121	7.1501	ppbV	S	94
89)	2,3-Dimethylpentane	19.14	56	320092	6.6236	ppbV	S	97
91)	3-Methylhexane	19.44	43	274269	6.9263	ppbV	S	95
92)	1,2-Dichloropropane	19.55	63	175702	7.1783	ppbV	S	99
93)	Bromodichloromethane	19.87	83	308103	5.9580	ppbV	S	97
94)	Trichloroethene	19.93	130	239556	5.2309	ppbV	S	96
95)	1,4-Dioxane	19.99	88	126794	6.3502	ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.01	57	909648	6.7047	ppbV	S	99
98)	2-Chloropentane	20.24	70	271060	6.8402	ppbV	S	96
100)	n-Heptane	20.49	71	193765	6.3571	ppbV	S	91
104)	cis-1,3-Dichloropropene	21.32	75	236348	6.1532	ppbV	S	98
105)	Methylisobutylketone	21.45	43	320472	7.9983	ppbV	S	99
106)	Methylcyclohexane	21.40	83	395345	6.2664	ppbV	S	97
110)	trans-1,3-Dichloropropene	22.20	75	215275	6.5261	ppbV	S	96
111)	1,1,2-Trichloroethane	22.44	97	189259	6.2633	ppbV	S	98
112)	2,3,4-Trimethylpentane	22.66	43	452371	7.0002	ppbV	S	93
114)	Toluene	22.87	91	566486	6.6635	ppbV	S	97
117)	2-Methylheptane	23.31	43	336972	7.4724	ppbV	S	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110802.D Vial: 1
Acq On : 8 Nov 2011 10:52 am Operator: KRW
Sample : 11K0093-CCV1,,,,0.01057;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 11:56 19111 Quant Results File: RA111026.RES

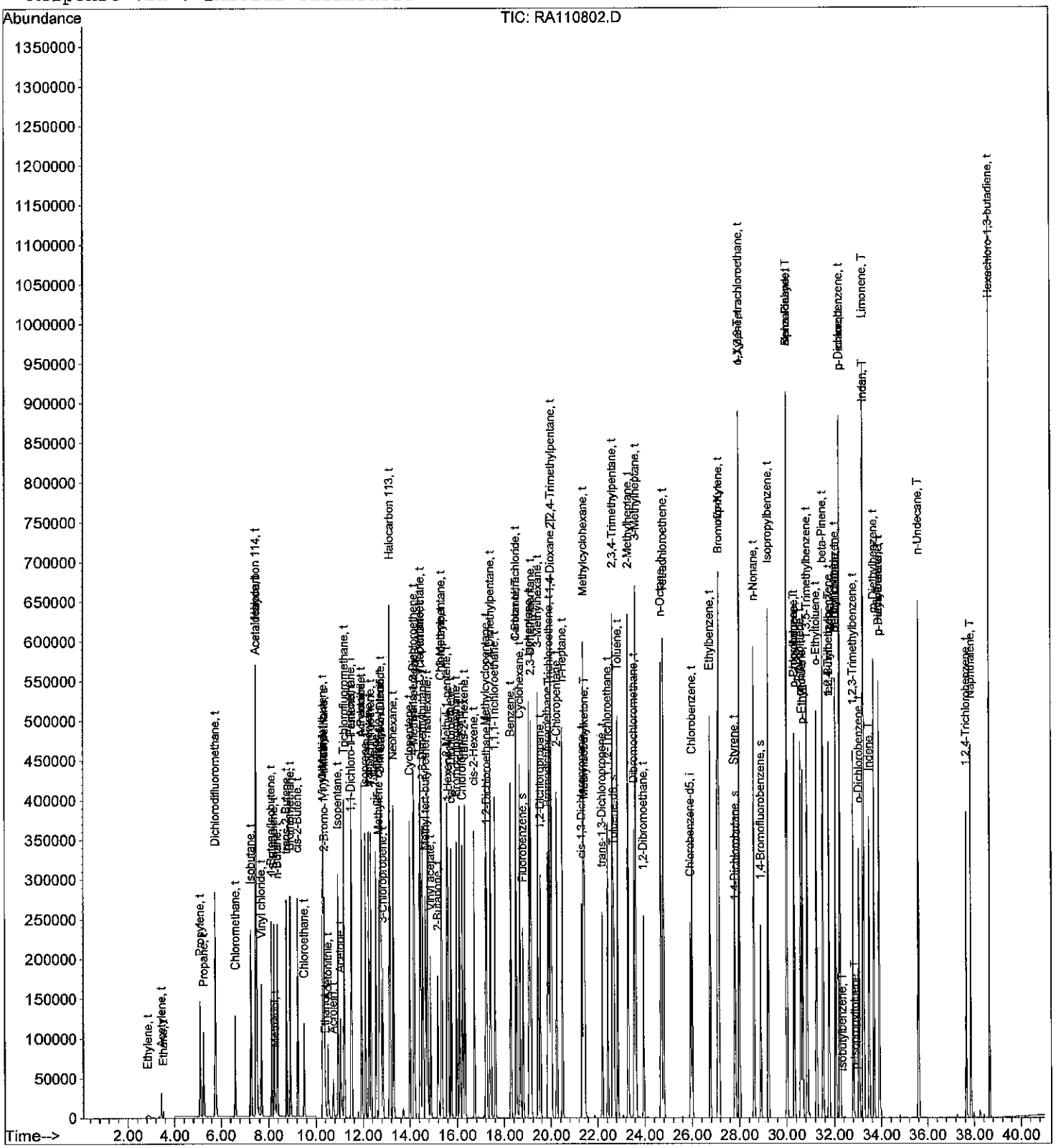
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
119)	Dibromochloromethane	23.56	129	310644	5.9974	ppbV	S	99
120)	3-Methylheptane	23.63	85	294950	6.4771	ppbV	S	89
122)	1,2-Dibromoethane	23.95	107	267966	6.1583	ppbV	S	100
125)	n-Octane	24.70	43	336289	7.2443	ppbV	S	93
126)	Tetrachloroethene	24.79	164	232914	5.7486	ppbV	S	98
128)	Chlorobenzene	26.01	112	384264	6.2211	ppbV	S	98
129)	Ethylbenzene	26.75	91	595310	6.7384	ppbV	S	98
130)	m/p-Xylene	27.13	91	947746m	13.4645	ppbV	S	
131)	Bromoform	27.15	173	222398	6.0927	ppbV	S	98
134)	Styrene	27.80	104	314018	6.3991	ppbV	S	97
135)	1,1,2,2-Tetrachloroethane	28.00	83	335003	7.2625	ppbV	S	99
136)	o-Xylene	28.00	91	494041	7.0938	ppbV	S	98
140)	n-Nonane	28.62	43	310511	7.5821	ppbV	S	93
142)	Isopropylbenzene	29.23	105	738778	6.5389	ppbV	S	98
143)	Benzaldehyde	30.01	77	182054	8.8921	ppbV	#	24
144)	alpha-Pinene	30.02	93	688871	7.0047	ppbV	S	99
146)	p-Chlorotoluene	30.33	91	668847	12.1600	ppbV	#	49
147)	n-Propylbenzene	30.33	91	668847	6.5061	ppbV	S	98
148)	m-Ethyltoluene	30.59	105	518244	6.2783	ppbV	S	100
149)	p-Ethyltoluene	30.67	105	489138	6.3822	ppbV	S	99
150)	1,3,5-Trimethylbenzene	30.87	105	517827	6.8734	ppbV	S	99
151)	o-Ethyltoluene	31.26	105	565030	6.3351	ppbV	S	98
152)	beta-Pinene	31.53	93	488555	4.9268	ppbV	S	97
153)	1,2,4-Trimethylbenzene	31.79	105	453492	6.7132	ppbV	S	99
154)	tert-Butylbenzene	31.79	119	60493	0.6402	ppbV	#	56
156)	Benzyl chloride	32.06	91	272707	8.4840	ppbV	S	98
157)	m-Dichlorobenzene	32.06	146	264491	6.1435	ppbV	S	98
158)	n-Decane	32.25	57	352665	7.4425	ppbV	S	98
159)	p-Dichlorobenzene	32.24	146	252421	6.0843	ppbV	S	99
160)	Isobutylbenzene	32.34	91	1580	0.0178	ppbV	#	77
161)	1,2,3-Trimethylbenzene	32.80	105	461872	6.2557	ppbV	S	98
162)	p-Isopropyltoluene	32.88	119	3077	0.0338	ppbV		88
163)	o-Dichlorobenzene	33.06	146	264283	6.4494	ppbV	S	98
164)	Limonene	33.23	68	276008	7.1957	ppbV	S	99
165)	Indan	33.25	117	431409	6.8033	ppbV	S	99
166)	Indene	33.48	115	363436	6.7051	ppbV	S	98
167)	m-Diethylbenzene	33.68	105	355705	6.6911	ppbV	S	100
168)	p-Diethylbenzene	33.91	119	346882	6.7639	ppbV	S	99
169)	n-Butylbenzene	33.91	91	99887	1.4833	ppbV	#	1
171)	n-Undecane	35.61	57	404746	7.4509	ppbV	S	97
172)	1,2,4-Trichlorobenzene	37.67	180	172481	6.3178	ppbV	S	98
173)	Naphthalene	37.86	128	485541	7.1413	ppbV	S	99
174)	Hexachloro-1,3-butadiene	38.66	225	252325	6.5755	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110802.D Vial: 1
Acq On : 8 Nov 2011 10:52 am Operator: KRW
Sample : 11K0093-CCV1,,,,0.01057;CCAL Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 11:56 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110803.D Vial: 1
Acq On : 8 Nov 2011 11:52 am Operator: KRW
Sample : 11K0093-BS1,,,,0.01051;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 13:06 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

11/8/11 [illegible]

[illegible] 11-10-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.49	81	179137	2.0000 ppbV	0.00
82) Chlorobenzene-d5	25.93	117	273516	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.36	83	114236	2.0325 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
65) Fluorobenzene	18.80	96	350767	1.8971 ppbV	0.00
Spiked Amount 2.000			Recovery	= 95.00%	
113) Toluene-d8	22.71	98	326085	2.0072 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
115) 1,4-Dichlorobutane	27.83	90	32585	2.1569 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.00%	
141) 1,4-Bromofluorobenzene	28.90	95	143769	2.0183 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	

Target Compounds					Qvalue
3) Ethylene	2.81	26	26485m	4.9964 ppbV	S
4) Acetylene	3.43	26	58356	5.6898 ppbV	S 97
5) Ethane	3.52	26	5472	2.4638 ppbV	S 100
7) Propylene	5.09	41	99117	4.8682 ppbV	S 99
8) Chlorodifluoromethane	5.46	51	233506	5.4961 ppbV	S 100
9) Propane	5.25	43	43473	4.6550 ppbV	S 97
10) Dichlorodifluoromethane	5.75	85	467810	4.7906 ppbV	S 99
11) Chloromethane	6.61	50	144083	5.3076 ppbV	S 100
12) Isobutane	7.25	43	259043	4.8397 ppbV	S 99
13) Halocarbon 114	7.47	85	499635	4.3401 ppbV	S 99
15) Vinyl chloride	7.69	62	192708	5.1604 ppbV	S 98
16) 1-Butene/Isobutene	8.13	41	172713	5.0658 ppbV	S 97
17) 1,3-Butadiene	8.23	39	105894	5.8371 ppbV	S 96
18) n-Butane	8.39	43	224930	4.8659 ppbV	S 99
19) Methanol	8.27	31	34149m	6.3878 ppbV	S
20) trans-2-Butene	8.77	41	156125	5.2793 ppbV	S 98
23) Bromomethane	8.92	94	205711	5.1154 ppbV	S 99
24) cis-2-Butene	9.24	41	165406	5.6777 ppbV	S 97
25) Chloroethane	9.51	64	101886	5.5968 ppbV	S 97
26) Vinyl bromide	10.28	106	204542	4.7533 ppbV	S 97
27) 3-Methyl-1-butene	10.32	55	350399	5.7708 ppbV	S 98
29) Acetonitrile	10.51	41	113195	6.8989 ppbV	S 99
30) Acrolein	10.73	56	58311	6.6819 ppbV	S 98
31) Isopentane	10.94	41	137604	5.2944 ppbV	S 97
32) Trichlorofluoromethane	11.20	101	447414	5.2168 ppbV	S 99
33) 1-Pentene	11.51	42	188450	6.0837 ppbV	S 95
34) Acetone	11.04	43	195296	7.1223 ppbV	S 99
35) 2-Propanol	11.81	45	193804	5.9973 ppbV	S 99
36) Acrylonitrile	11.94	52	97333	6.9105 ppbV	S 92
37) n-Pentane	11.93	43	257269	5.6802 ppbV	S 99
38) Diethyl ether	12.15	74	88664	6.6061 ppbV	S 94
39) Isoprene	12.11	67	227695	5.6805 ppbV	S 97
40) trans-2-Pentene	12.26	55	286748	5.7371 ppbV	S 97
41) 1,1-Dichloroethene	12.34	61	266608	5.6843 ppbV	S 98
42) cis-2-Pentene	12.55	55	286816	5.7556 ppbV	S 97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110803.D Vial: 1
Acq On : 8 Nov 2011 11:52 am Operator: KRW
Sample : 11K0093-BS1,,,,0.01051;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 13:06 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	12.68	49	174626	5.9969	ppbV	S	95
44)	2-Methyl-2-butene	12.74	55	290397	5.7822	ppbV	S	97
45)	Carbon Disulfide	12.77	76	505233	4.1125	ppbV	S	100
46)	3-Chloropropene	12.85	41	147782	5.9091	ppbV	S	96
47)	Halocarbon 113	13.15	151	355610	5.4632	ppbV	S	98
50)	trans-1,2-Dichloroethene	14.17	61	234927	5.3749	ppbV	S	99
51)	4-Methyl-1-pentene	14.20	43	209065	5.3845	ppbV	S	99
53)	1,1-Dichloroethane	14.46	63	328380	5.9418	ppbV	S	100
56)	Methyl tert-butyl ether	14.66	73	460355	6.3135	ppbV	S	96
58)	Vinyl acetate	14.88	43	341468	7.0611	ppbV	S	97
62)	2-Butanone	15.18	43	269794	6.6760	ppbV	S	95
63)	Chloroprene	15.33	53	222119	5.6990	ppbV	S	96
68)	cis-1,2-Dichloroethene	15.75	61	237364	5.9018	ppbV	S	96
71)	n-Hexane	16.11	57	274944	5.4937	ppbV	S	98
72)	Chloroform	16.22	83	375087	5.6430	ppbV	S	99
74)	trans-2-Hexene	16.32	55	308203	6.0014	ppbV	S	96
77)	cis-2-Hexene	16.72	55	253999	5.4831	ppbV	S	95
79)	1,2-Dichloroethane	17.26	62	197953	6.1901	ppbV	S	98
81)	1,1,1-Trichloroethane	17.60	97	382732	5.4431	ppbV	S	99
84)	Benzene	18.28	78	588693	6.5119	ppbV	S	99
85)	Carbon tetrachloride	18.50	117	385098	5.6671	ppbV	S	99
86)	1-Butanol	18.51	56	58647	2.5668	ppbV	S	97
87)	Cyclohexane	18.67	56	286674	5.7161	ppbV	S	95
92)	1,2-Dichloropropane	19.55	63	208607	7.3165	ppbV	S	99
93)	Bromodichloromethane	19.88	83	403189	6.6934	ppbV	S	96
94)	Trichloroethene	19.93	130	282659	5.2986	ppbV	S	98
95)	1,4-Dioxane	19.99	88	121016	5.2031	ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.02	57	927675	5.8699	ppbV	S	99
98)	2-Chloropentane	20.24	70	265302	5.7475	ppbV	S	98
100)	n-Heptane	20.49	71	209130	5.8902	ppbV	S	92
104)	cis-1,3-Dichloropropene	21.33	75	315482	7.0511	ppbV	S	99
105)	Methylisobutylketone	21.45	43	314813	6.7452	ppbV	S	99
110)	trans-1,3-Dichloropropene	22.20	75	250553	6.5206	ppbV	S	98
111)	1,1,2-Trichloroethane	22.44	97	241336	6.8565	ppbV	S	97
114)	Toluene	22.87	91	695947	7.0279	ppbV	S	99
116)	2-Hexanone	23.44	43	291596	7.5196	ppbV	S	97
119)	Dibromochloromethane	23.56	129	411991	6.8284	ppbV	S	100
122)	1,2-Dibromoethane	23.95	107	337428	6.6572	ppbV	S	100
125)	n-Octane	24.70	43	356757	6.5977	ppbV	S	93
126)	Tetrachloroethene	24.79	164	287275	6.0869	ppbV	S	99
128)	Chlorobenzene	26.01	112	500422	6.9552	ppbV	S	99
129)	Ethylbenzene	26.75	91	739306	7.1841	ppbV	S	97
130)	m/p-Xylene	27.13	91	1161669m	14.1681	ppbV	S	
131)	Bromoform	27.15	173	308812	7.2628	ppbV	S	99
134)	Styrene	27.79	104	404779	7.0813	ppbV	S	98
135)	1,1,2,2-Tetrachloroethane	28.00	83	381448	7.0991	ppbV	S	98
136)	o-Xylene	28.00	91	576702	7.1088	ppbV	S	99
140)	n-Nonane	28.62	43	339327	7.1132	ppbV	S	93
142)	Isopropylbenzene	29.23	105	841743	6.3959	ppbV	S	99
145)	o/m-Chlorotoluene	30.18	91	484133	7.2236	ppbV	S	97
146)	p-Chlorotoluene	30.33	91	803477	12.5404	ppbV #		49

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110803.D Vial: 1
Acq On : 8 Nov 2011 11:52 am Operator: KRW
Sample : 11K0093-BS1,,,,0.01051;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 13:06 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

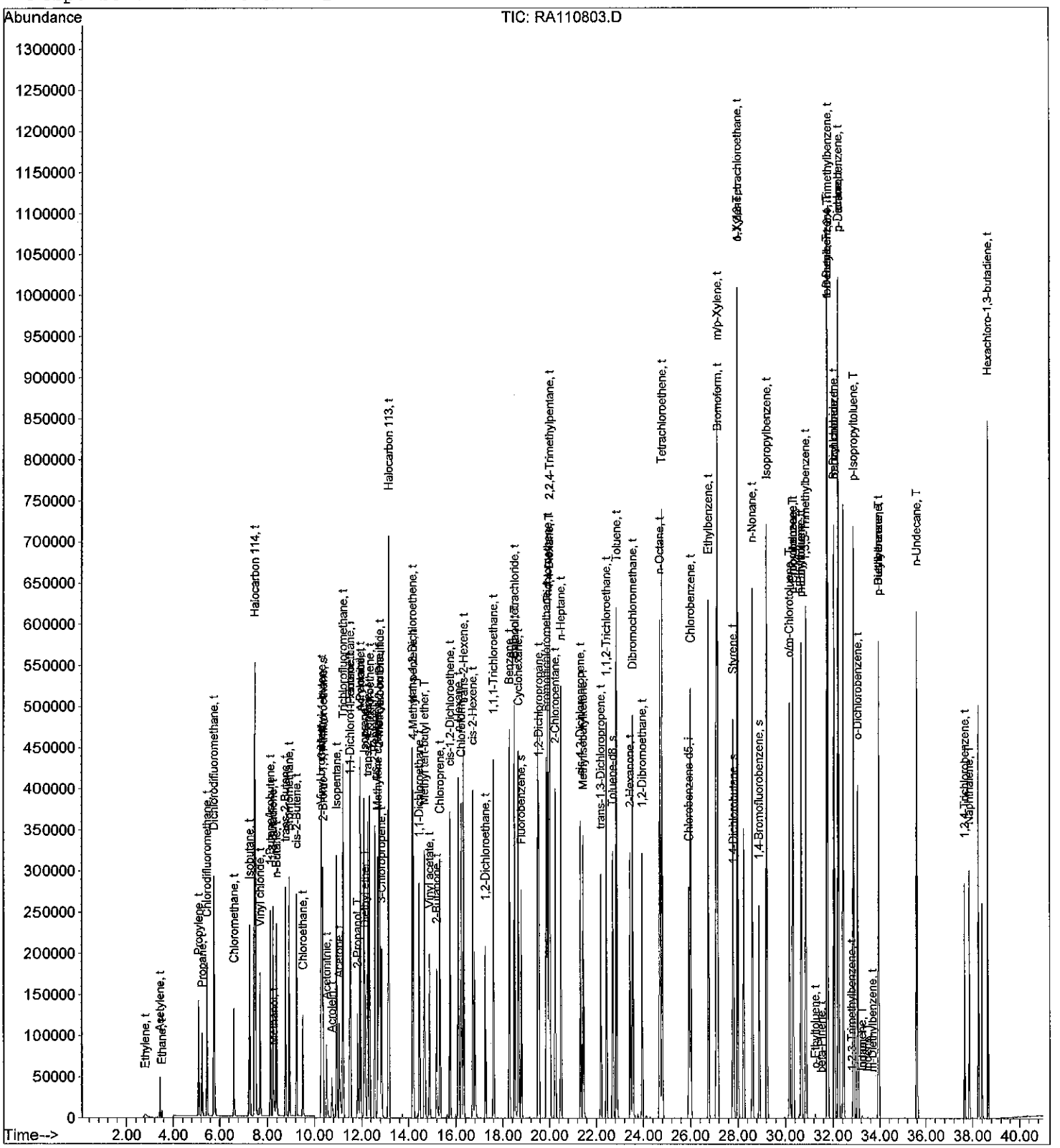
Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
147) n-Propylbenzene	30.33	91	803477	6.7097	ppbV		S	99
148) m-Ethyltoluene	30.67	105	654442	6.8063	ppbV			97
149) p-Ethyltoluene	30.67	105	655554	7.3431	ppbV		S	99
150) 1,3,5-Trimethylbenzene	30.87	105	594894	6.7789	ppbV		S	99
151) o-Ethyltoluene	31.26	105	4520	0.0435	ppbV			92
152) beta-Pinene	31.51	93	74	0.0006	ppbV			50
153) 1,2,4-Trimethylbenzene	31.79	105	546336	6.9431	ppbV	#	S	83
154) tert-Butylbenzene	31.77	119	811842	7.3763	ppbV		S	97
155) 1-Decene	31.77	56	2387	0.1086	ppbV	#		1
156) Benzyl chloride	32.06	91	389539	10.4037	ppbV		S	98
157) m-Dichlorobenzene	32.07	146	325236	6.4854	ppbV		S	99
158) n-Decane	32.25	57	387695	7.0239	ppbV		S	97
159) p-Dichlorobenzene	32.24	146	315800	6.5348	ppbV		S	99
161) 1,2,3-Trimethylbenzene	32.80	105	2941	0.0342	ppbV			87
162) p-Isopropyltoluene	32.88	119	762911	7.1945	ppbV		S	99
163) o-Dichlorobenzene	33.06	146	320870	6.7222	ppbV		S	99
164) Limonene	33.24	68	875	0.0196	ppbV			82
165) Indan	33.25	117	1685	0.0228	ppbV			89
166) Indene	33.48	115	1718	0.0272	ppbV			74
167) m-Diethylbenzene	33.68	105	820	0.0132	ppbV	#		68
168) p-Diethylbenzene	33.96	119	7435	0.1245	ppbV	#		1
169) n-Butylbenzene	33.96	91	571853	7.2899	ppbV		S	98
171) n-Undecane	35.61	57	382792	6.0495	ppbV		S	98
172) 1,2,4-Trichlorobenzene	37.67	180	126902	3.9905	ppbV		S	99
173) Naphthalene	37.86	128	321113	4.0545	ppbV		S	99
174) Hexachloro-1,3-butadiene	38.66	225	185363	4.1469	ppbV		S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110803.D Vial: 1
Acq On : 8 Nov 2011 11:52 am Operator: KRW
Sample : 11K0093-BS1,,,,0.01051;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 13:06 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110804.D Vial: 1
Acq On : 8 Nov 2011 12:53 pm Operator: KRW
Sample : 11K0093-BSD1,,,,0.01051;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 13:46 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.50	81	178691	2.0000 ppbV	0.00
82) Chlorobenzene-d5	25.93	117	281610	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.37	83	113625	2.0267 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
65) Fluorobenzene	18.81	96	354427	1.9217 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.00%	
113) Toluene-d8	22.71	98	331498	1.9819 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	
115) 1,4-Dichlorobutane	27.83	90	33531	2.1557 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.00%	
141) 1,4-Bromofluorobenzene	28.91	95	147810	2.0154 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.00%	

Target Compounds						Qvalue
3) Ethylene	2.81	26	26617m	5.0338 ppbV	S	
4) Acetylene	3.44	26	59074	5.7742 ppbV	S	97
5) Ethane	3.51	26	5640	2.5458 ppbV	S	99
7) Propylene	5.09	41	99160	4.8824 ppbV	S	99
8) Chlorodifluoromethane	5.46	51	232112	5.4770 ppbV	S	100
9) Propane	5.25	43	43593	4.6795 ppbV	S	99
10) Dichlorodifluoromethane	5.76	85	466019	4.7842 ppbV	S	99
11) Chloromethane	6.61	50	145366	5.3682 ppbV	S	99
12) Isobutane	7.26	43	260393	4.8770 ppbV	S	99
13) Halocarbon 114	7.47	85	499223	4.3473 ppbV	S	100
15) Vinyl chloride	7.69	62	190812	5.1224 ppbV	S	99
16) 1-Butene/Isobutene	8.13	41	173970	5.1154 ppbV	S	98
17) 1,3-Butadiene	8.24	39	107060	5.9161 ppbV	S	95
18) n-Butane	8.39	43	227107	4.9253 ppbV	S	99
19) Methanol	8.28	31	34734m	6.5135 ppbV	S	
20) trans-2-Butene	8.77	41	155683	5.2775 ppbV	S	96
23) Bromomethane	8.93	94	206786	5.1550 ppbV	S	100
24) cis-2-Butene	9.24	41	166062	5.7144 ppbV	S	96
25) Chloroethane	9.51	64	102294	5.6332 ppbV	S	98
26) Vinyl bromide	10.29	106	203289	4.7360 ppbV	S	98
27) 3-Methyl-1-butene	10.32	55	352917	5.8268 ppbV	S	98
29) Acetonitrile	10.51	41	115201	7.0387 ppbV	S	99
30) Acrolein	10.74	56	59292	6.8113 ppbV	S	99
31) Isopentane	10.94	41	136661	5.2712 ppbV	S	95
32) Trichlorofluoromethane	11.21	101	447988	5.2365 ppbV	S	99
33) 1-Pentene	11.51	42	189307	6.1266 ppbV	S	93
34) Acetone	11.05	43	198368	7.2524 ppbV	S	99
35) 2-Propanol	11.82	45	203075	6.2999 ppbV	S	99
36) Acrylonitrile	11.95	52	97277	6.9238 ppbV	S	95
37) n-Pentane	11.94	43	257881	5.7080 ppbV	S	99
38) Diethyl ether	12.15	74	89861	6.7120 ppbV	S	94
39) Isoprene	12.11	67	229692	5.7447 ppbV	S	98
40) trans-2-Pentene	12.26	55	287447	5.7654 ppbV	S	98
41) 1,1-Dichloroethene	12.35	61	267509	5.7177 ppbV	S	97
42) cis-2-Pentene	12.56	55	289924	5.8325 ppbV	S	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110804.D Vial: 1
Acq On : 8 Nov 2011 12:53 pm Operator: KRW
Sample : 11K0093-BSD1,,,,0.01051;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 13:46 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	12.69	49	176331	6.0706	ppbV	S	97
44)	2-Methyl-2-butene	12.74	55	293570	5.8600	ppbV	S	98
45)	Carbon Disulfide	12.77	76	507055	4.1376	ppbV	S	99
46)	3-Chloropropene	12.85	41	149459	5.9910	ppbV	S	96
47)	Halocarbon 113	13.15	151	359403	5.5353	ppbV	S	99
50)	trans-1,2-Dichloroethene	14.17	61	237116	5.4385	ppbV	S	99
51)	4-Methyl-1-pentene	14.20	43	216819	5.5981	ppbV	S	99
53)	1,1-Dichloroethane	14.46	63	333025	6.0409	ppbV	S	97
56)	Methyl tert-butyl ether	14.67	73	465690	6.4026	ppbV	S	96
58)	Vinyl acetate	14.89	43	347439	7.2025	ppbV	S	98
62)	2-Butanone	15.19	43	273073	6.7740	ppbV	S	95
63)	Chloroprene	15.33	53	222843	5.7319	ppbV	S	97
68)	cis-1,2-Dichloroethene	15.76	61	238937	5.9558	ppbV	S	96
71)	n-Hexane	16.11	57	278197	5.5726	ppbV	S	96
72)	Chloroform	16.23	83	376881	5.6842	ppbV	S	99
74)	trans-2-Hexene	16.33	55	312497	6.1002	ppbV	S	97
77)	cis-2-Hexene	16.72	55	257393	5.5703	ppbV	S	96
79)	1,2-Dichloroethane	17.26	62	200303	6.2792	ppbV	S	99
81)	1,1,1-Trichloroethane	17.61	97	386195	5.5060	ppbV	S	98
84)	Benzene	18.28	78	596366	6.4072	ppbV	S	99
85)	Carbon tetrachloride	18.50	117	388160	5.5480	ppbV	S	99
86)	1-Butanol	18.51	56	60417	2.5683	ppbV	S	95
87)	Cyclohexane	18.67	56	287232	5.5626	ppbV	S	98
92)	1,2-Dichloropropane	19.55	63	211483	7.2042	ppbV	S	100
93)	Bromodichloromethane	19.88	83	408102	6.5803	ppbV	S	98
94)	Trichloroethene	19.94	130	288696	5.2562	ppbV	S	97
95)	1,4-Dioxane	20.00	88	127008	5.3038	ppbV #	S	1
97)	2,2,4-Trimethylpentane	20.02	57	934709	5.7444	ppbV	S	99
98)	2-Chloropentane	20.25	70	269331	5.6671	ppbV	S	98
100)	n-Heptane	20.49	71	210761	5.7655	ppbV	S	90
104)	cis-1,3-Dichloropropene	21.33	75	319080	6.9266	ppbV	S	98
105)	Methylisobutylketone	21.45	43	321849	6.6977	ppbV	S	99
110)	trans-1,3-Dichloropropene	22.20	75	253774	6.4146	ppbV	S	98
111)	1,1,2-Trichloroethane	22.44	97	247200	6.8212	ppbV	S	97
114)	Toluene	22.87	91	715051	7.0133	ppbV	S	98
116)	2-Hexanone	23.44	43	298664	7.4805	ppbV	S	97
119)	Dibromochloromethane	23.56	129	423767	6.8217	ppbV	S	99
122)	1,2-Dibromoethane	23.95	107	344924	6.6095	ppbV	S	99
125)	n-Octane	24.70	43	356611	6.4054	ppbV	S	94
126)	Tetrachloroethene	24.80	164	291624	6.0014	ppbV	S	100
128)	Chlorobenzene	26.01	112	514761	6.9489	ppbV	S	98
129)	Ethylbenzene	26.76	91	769998	7.2673	ppbV	S	98
130)	m/p-Xylene	27.13	91	1206916m	14.2969	ppbV	S	
131)	Bromoform	27.15	173	321155	7.3360	ppbV	S	99
134)	Styrene	27.80	104	421989	7.1702	ppbV	S	98
135)	1,1,2,2-Tetrachloroethane	28.00	83	390884	7.0657	ppbV	S	98
136)	o-Xylene	28.00	91	595112	7.1249	ppbV	S	99
140)	n-Nonane	28.62	43	343732	6.9984	ppbV	S	94
142)	Isopropylbenzene	29.23	105	872555	6.4395	ppbV	S	99
145)	o/m-Chlorotoluene	30.18	91	496866	7.2005	ppbV	S	99
146)	p-Chlorotoluene	30.33	91	830074	12.5832	ppbV #		49

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110804.D Vial: 1
Acq On : 8 Nov 2011 12:53 pm Operator: KRW
Sample : 11K0093-BSD1,,,,0.01051;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 13:46 19111 Quant Results File: RA111026.RES

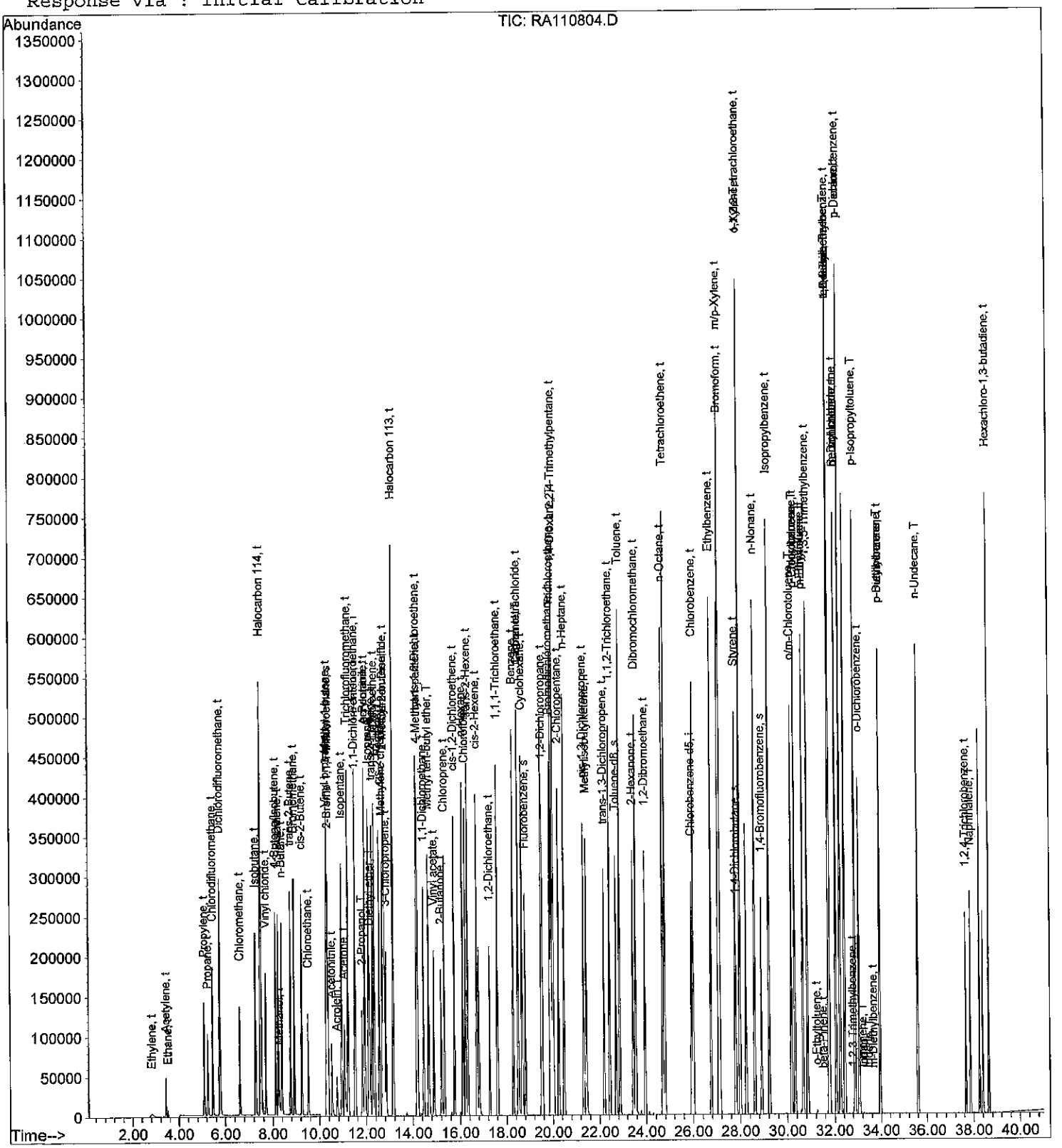
Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
147) n-Propylbenzene	30.33	91	830074	6.7325	ppbV		S	99
148) m-Ethyltoluene	30.67	105	681281	6.8818	ppbV			96
149) p-Ethyltoluene	30.67	105	681281	7.4119	ppbV		S	99
150) 1,3,5-Trimethylbenzene	30.87	105	613352	6.7884	ppbV		S	99
151) o-Ethyltoluene	31.26	105	3958	0.0370	ppbV			89
152) beta-Pinene	31.53	93	34	0.0003	ppbV			50
153) 1,2,4-Trimethylbenzene	31.79	105	571342	7.0522	ppbV	#	S	81
154) tert-Butylbenzene	31.77	119	840455	7.4168	ppbV		S	97
155) 1-Decene	31.78	56	2474	0.1093	ppbV	#		1
156) Benzyl chloride	32.07	91	403610	10.4697	ppbV		S	98
157) m-Dichlorobenzene	32.07	146	339797	6.5810	ppbV		S	98
158) n-Decane	32.25	57	401832	7.0708	ppbV		S	97
159) p-Dichlorobenzene	32.24	146	330348	6.6393	ppbV		S	100
161) 1,2,3-Trimethylbenzene	32.80	105	2249	0.0254	ppbV			90
162) p-Isopropyltoluene	32.88	119	798303	7.3119	ppbV		S	99
163) o-Dichlorobenzene	33.06	146	328701	6.6884	ppbV		S	99
164) Limonene	33.22	68	389	0.0085	ppbV			85
165) Indan	33.25	117	656	0.0086	ppbV	#		59
166) Indene	33.47	115	493	0.0076	ppbV	#		69
167) m-Diethylbenzene	33.68	105	164	0.0026	ppbV	#		16
168) p-Diethylbenzene	33.96	119	6677	0.1086	ppbV	#		1
169) n-Butylbenzene	33.96	91	585082	7.2442	ppbV		S	99
171) n-Undecane	35.61	57	369915	5.6780	ppbV		S	97
172) 1,2,4-Trichlorobenzene	37.67	180	115525	3.5283	ppbV		S	99
173) Naphthalene	37.86	128	290453	3.5620	ppbV		S	99
174) Hexachloro-1,3-butadiene	38.66	225	171944	3.7361	ppbV		S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110804.D Vial: 1
Acq On : 8 Nov 2011 12:53 pm Operator: KRW
Sample : 11K0093-BSD1,,,,0.01051;LCS Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 8 13:46 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110811.D Vial: 1
Acq On : 8 Nov 2011 7:43 pm Operator: KRW
Sample : AUJ0241-01,,,,;TCESL Inst : GCMS-R1
Misc : 2.1757,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 10:14 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

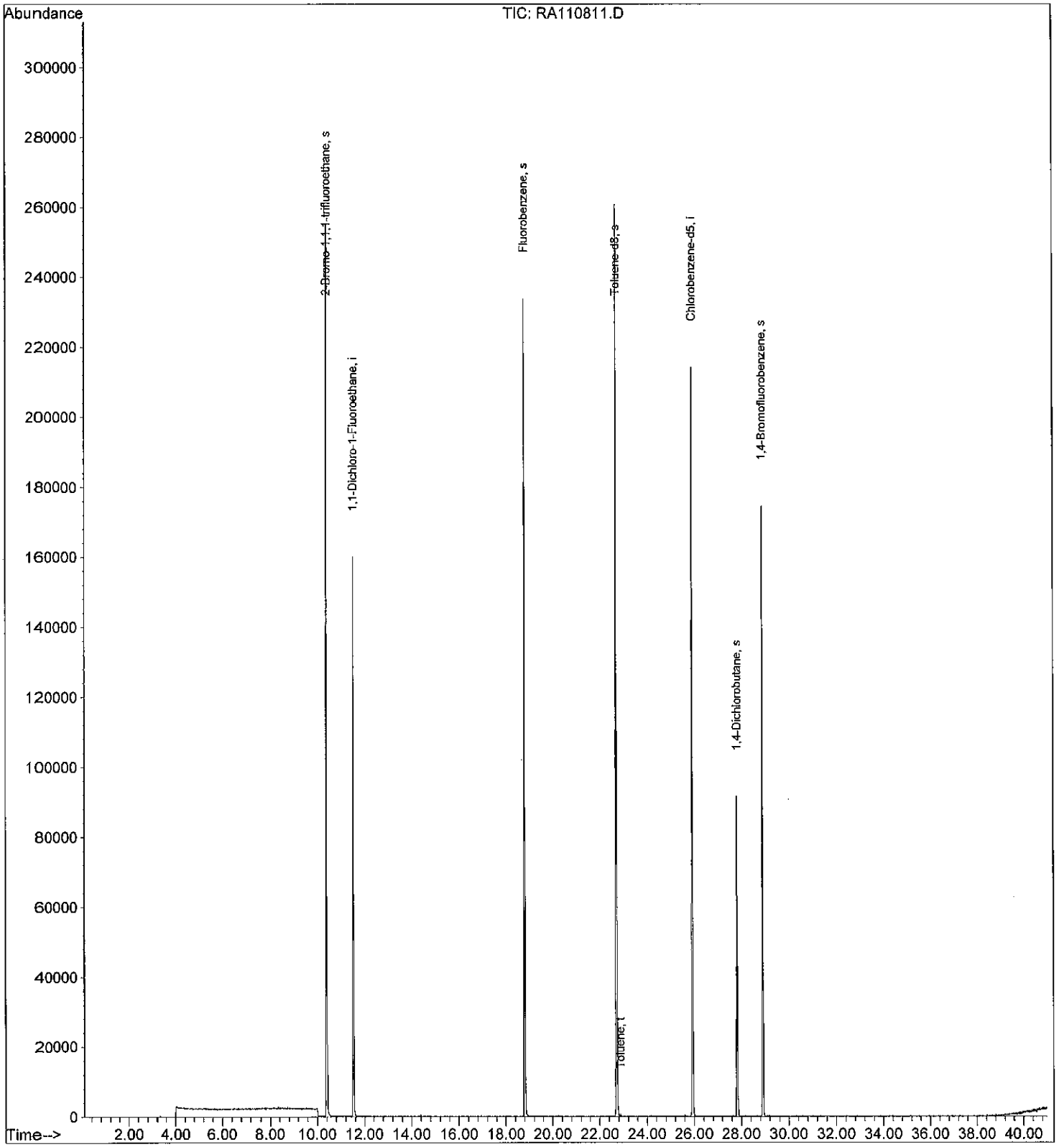
DAH 11/12/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	166191	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	198543	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	101530	1.9472 ppbV	0.02
Spiked Amount 2.000			Recovery	= 97.50%	
65) Fluorobenzene	18.81	96	290906	1.6959 ppbV	0.01
Spiked Amount 2.000			Recovery	= 85.00%	
113) Toluene-d8	22.71	98	260355	2.2078 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.50%	
115) 1,4-Dichlorobutane	27.83	90	20079	1.8309 ppbV	0.00
Spiked Amount 2.000			Recovery	= 91.50%	
141) 1,4-Bromofluorobenzene	28.90	95	93000	1.7986 ppbV	0.00
Spiked Amount 2.000			Recovery	= 90.00%	
Target Compounds					Qvalue
114) Toluene	22.87	91	669	0.0093 ppbV	S 97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110811.D Vial: 1
Acq On : 8 Nov 2011 7:43 pm Operator: KRW
Sample : AUJ0241-01,,,,;TCESL Inst : GCMS-R1
Misc : 2.1757,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 10:14 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110812.D Vial: 1
Acq On : 8 Nov 2011 8:43 pm Operator: KRW
Sample : AUJ0241-02,,,,;TCESL Inst : GCMS-R1
Misc : 2.6253,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 10:20 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

11-10-11

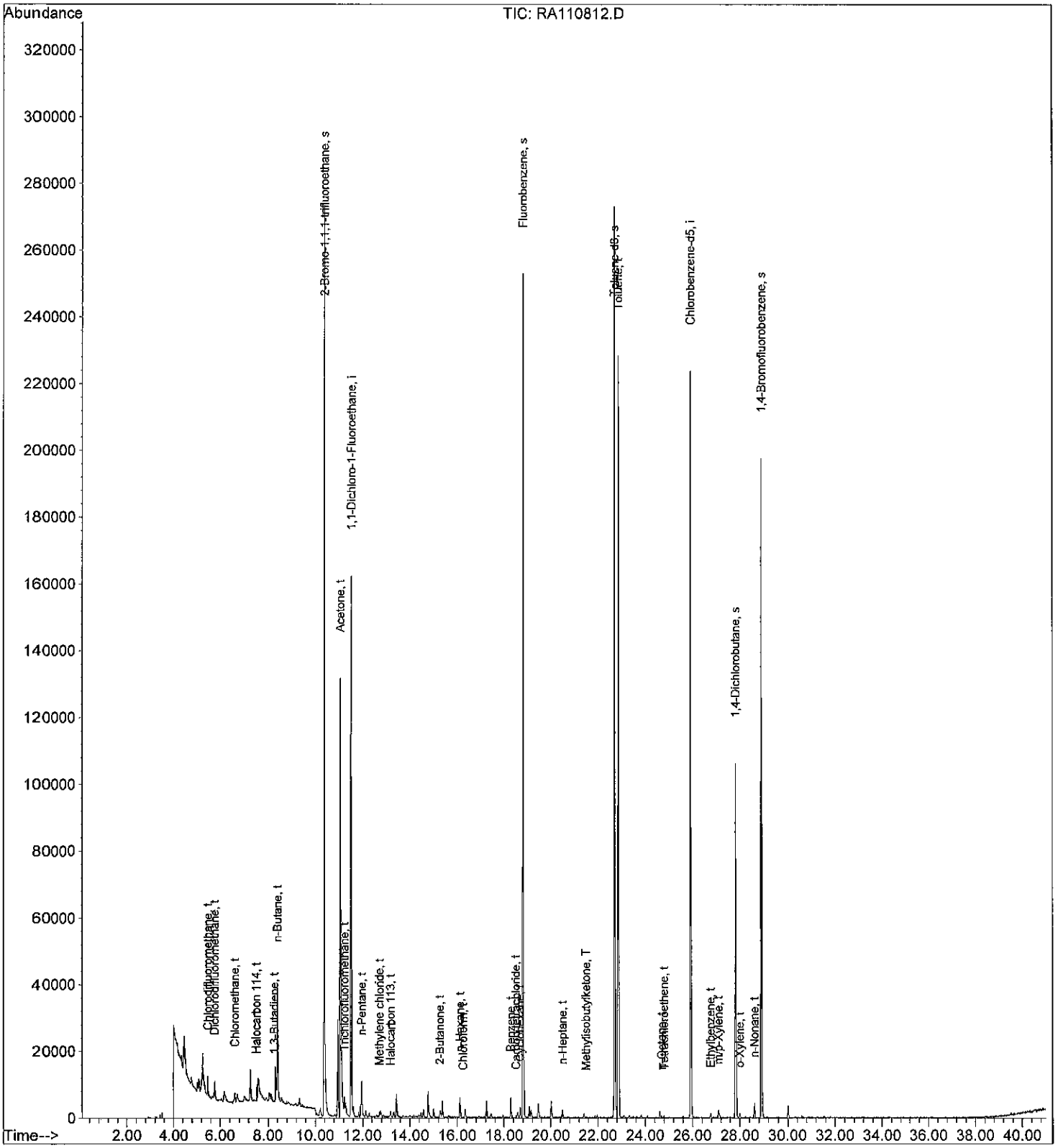
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	166938	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	209604	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	105579	2.0158 ppbV	0.02
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	18.81	96	313649	1.8203 ppbV	0.01
Spiked Amount 2.000			Recovery	= 91.00%	
113) Toluene-d8	22.71	98	272391	2.1880 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	
115) 1,4-Dichlorobutane	27.83	90	23826	2.0580 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
141) 1,4-Bromofluorobenzene	28.91	95	104827	1.9204 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.47	51	8080	0.2041 ppbV	S	98
10) Dichlorodifluoromethane	5.77	85	8865	0.0974 ppbV	S	94
11) Chloromethane	6.63	50	2606	0.1030 ppbV	S	98
13) Halocarbon 114	7.50	85	88	0.0008 ppbV #	S	27
17) 1,3-Butadiene	8.27	39	202	0.0119 ppbV #	S	75
18) n-Butane	8.40	43	29592	0.6869 ppbV	S	99
32) Trichlorofluoromethane	11.23	101	4506	0.0564 ppbV	S	98
34) Acetone	11.06	43	217748m	8.5214 ppbV	S	
37) n-Pentane	11.95	43	9378	0.2222 ppbV	S	96
43) Methylene chloride	12.72	49	814	0.0300 ppbV	S	91
47) Halocarbon 113	13.18	151	879	0.0145 ppbV	S	78
62) 2-Butanone	15.27	43	3535	0.0939 ppbV	S	90
71) n-Hexane	16.12	57	3477	0.0746 ppbV	S	91
72) Chloroform	16.25	83	330	0.0053 ppbV #	S	31
84) Benzene	18.29	78	7399	0.1068 ppbV	S	97
85) Carbon tetrachloride	18.50	117	441	0.0085 ppbV #	S	65
87) Cyclohexane	18.68	56	1486	0.0387 ppbV	S	73
100) n-Heptane	20.51	71	643	0.0236 ppbV	S	84
105) Methylisobutylketone	21.50	43	300	0.0084 ppbV #	S	39
114) Toluene	22.87	91	254934	3.3594 ppbV	S	98
125) n-Octane	24.70	43	473	0.0114 ppbV #	S	60
126) Tetrachloroethene	24.80	164	79	0.0022 ppbV #	S	48
129) Ethylbenzene	26.77	91	2025	0.0257 ppbV	S	81
130) m/p-Xylene	27.09	91	3544m	0.0564 ppbV	S	
136) o-Xylene	28.00	91	1636	0.0263 ppbV	S	90
140) n-Nonane	28.61	43	1946	0.0532 ppbV #	S	75

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110812.D Vial: 1
Acq On : 8 Nov 2011 8:43 pm Operator: KRW
Sample : AUJ0241-02,,,,;TCESL Inst : GCMS-R1
Misc : 2.6253,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 10:20 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110813.D Vial: 1
Acq On : 8 Nov 2011 9:44 pm Operator: KRW
Sample : AUJ0241-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.3357,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 10:25 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

DAH 11-10-11

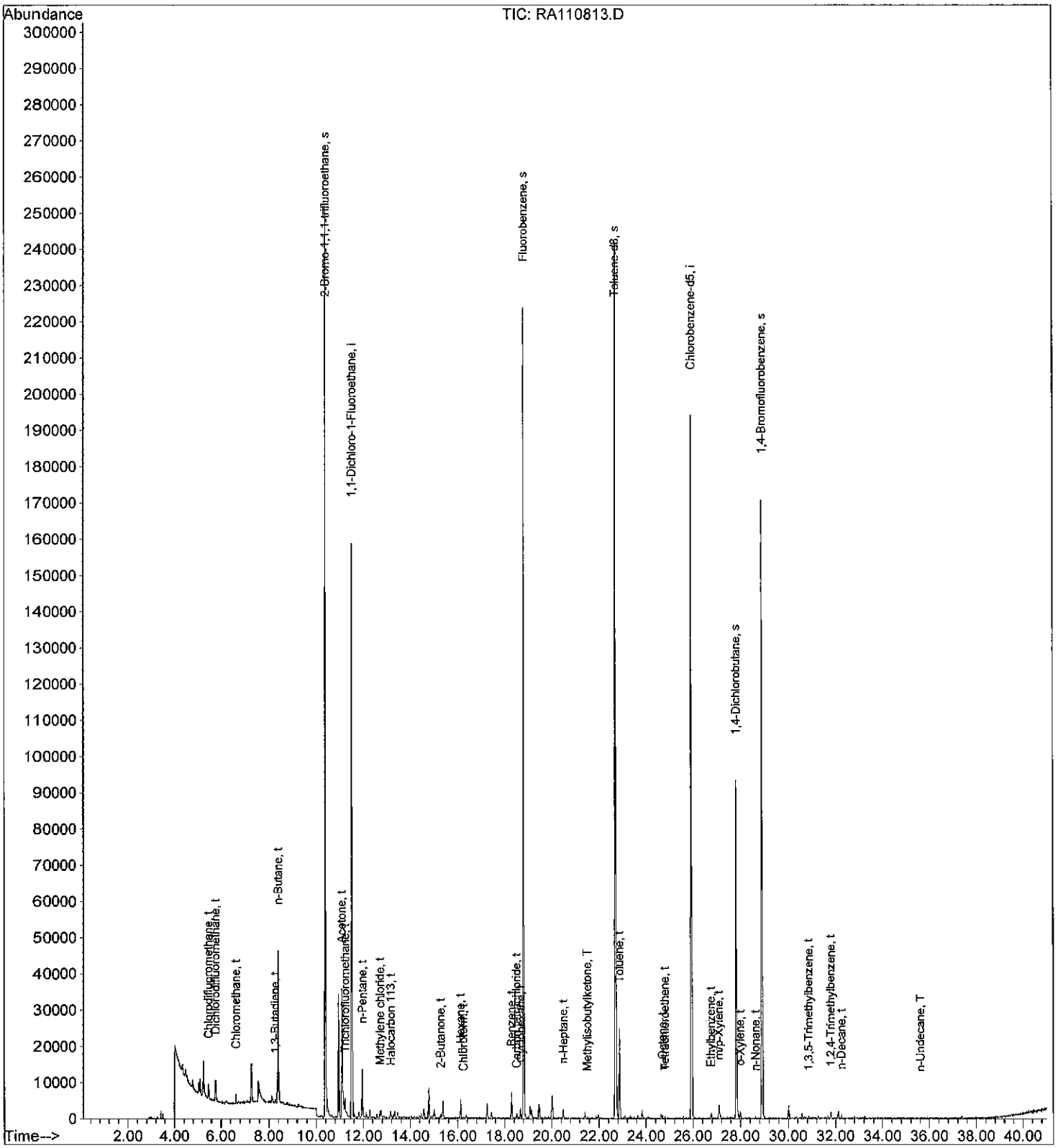
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	161112	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	183637	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	100412	1.9865 ppbV	0.02
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	18.81	96	282384	1.6981 ppbV	0.01
Spiked Amount 2.000			Recovery	= 85.00%	
113) Toluene-d8	22.71	98	243577	2.2332 ppbV	0.00
Spiked Amount 2.000			Recovery	= 111.50%	
115) 1,4-Dichlorobutane	27.83	90	21232	2.0932 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.50%	
141) 1,4-Bromofluorobenzene	28.90	95	92003	1.9238 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.00%	

Target Compounds					Qvalue
8) Chlorodifluoromethane	5.48	51	5773	0.1511 ppbV S	96
10) Dichlorodifluoromethane	5.77	85	9836	0.1120 ppbV S	97
11) Chloromethane	6.62	50	2798	0.1146 ppbV S	97
17) 1,3-Butadiene	8.25	39	339	0.0208 ppbV # S	73
18) n-Butane	8.40	43	36977	0.8894 ppbV S	99
32) Trichlorofluoromethane	11.23	101	4624	0.0599 ppbV S	96
34) Acetone	11.09	43	67077m	2.7199 ppbV S	
37) n-Pentane	11.96	43	10153	0.2492 ppbV S	98
43) Methylene chloride	12.71	49	994	0.0380 ppbV S	81
47) Halocarbon 113	13.18	151	944	0.0161 ppbV S	89
62) 2-Butanone	15.28	43	2202	0.0606 ppbV S	90
71) n-Hexane	16.12	57	2657	0.0590 ppbV S	92
72) Chloroform	16.24	83	330	0.0055 ppbV # S	31
84) Benzene	18.29	78	9115	0.1502 ppbV S	96
85) Carbon tetrachloride	18.50	117	1101	0.0241 ppbV # S	78
87) Cyclohexane	18.68	56	1589	0.0472 ppbV S	92
100) n-Heptane	20.49	71	797	0.0334 ppbV S	87
105) Methylisobutylketone	21.51	43	164	0.0052 ppbV S	72
114) Toluene	22.87	91	26833	0.4036 ppbV S	96
125) n-Octane	24.71	43	393	0.0108 ppbV S	78
126) Tetrachloroethene	24.80	164	125	0.0039 ppbV # S	14
129) Ethylbenzene	26.75	91	2554	0.0370 ppbV S	92
130) m/p-Xylene	27.08	91	5118m	0.0930 ppbV S	
136) o-Xylene	27.99	91	2352	0.0432 ppbV S	89
140) n-Nonane	28.62	43	371	0.0116 ppbV # S	47
150) 1,3,5-Trimethylbenzene	30.85	105	688	0.0117 ppbV S	90
153) 1,2,4-Trimethylbenzene	31.79	105	2280	0.0432 ppbV S	82
158) n-Decane	32.25	57	635	0.0171 ppbV S	77
171) n-Undecane	35.61	57	148	0.0035 ppbV # S	24

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110813.D Vial: 1
Acq On : 8 Nov 2011 9:44 pm Operator: KRW
Sample : AUJ0241-03,,,,;TCESL Inst : GCMS-R1
Misc : 2.3357,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 10:25 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110814.D Vial: 1
Acq On : 8 Nov 2011 10:44 pm Operator: KRW
Sample : AUJ0241-04,,,,;TCESL Inst : GCMS-R1
Misc : 2.5826,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 10:29 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

DAH 11/10/11

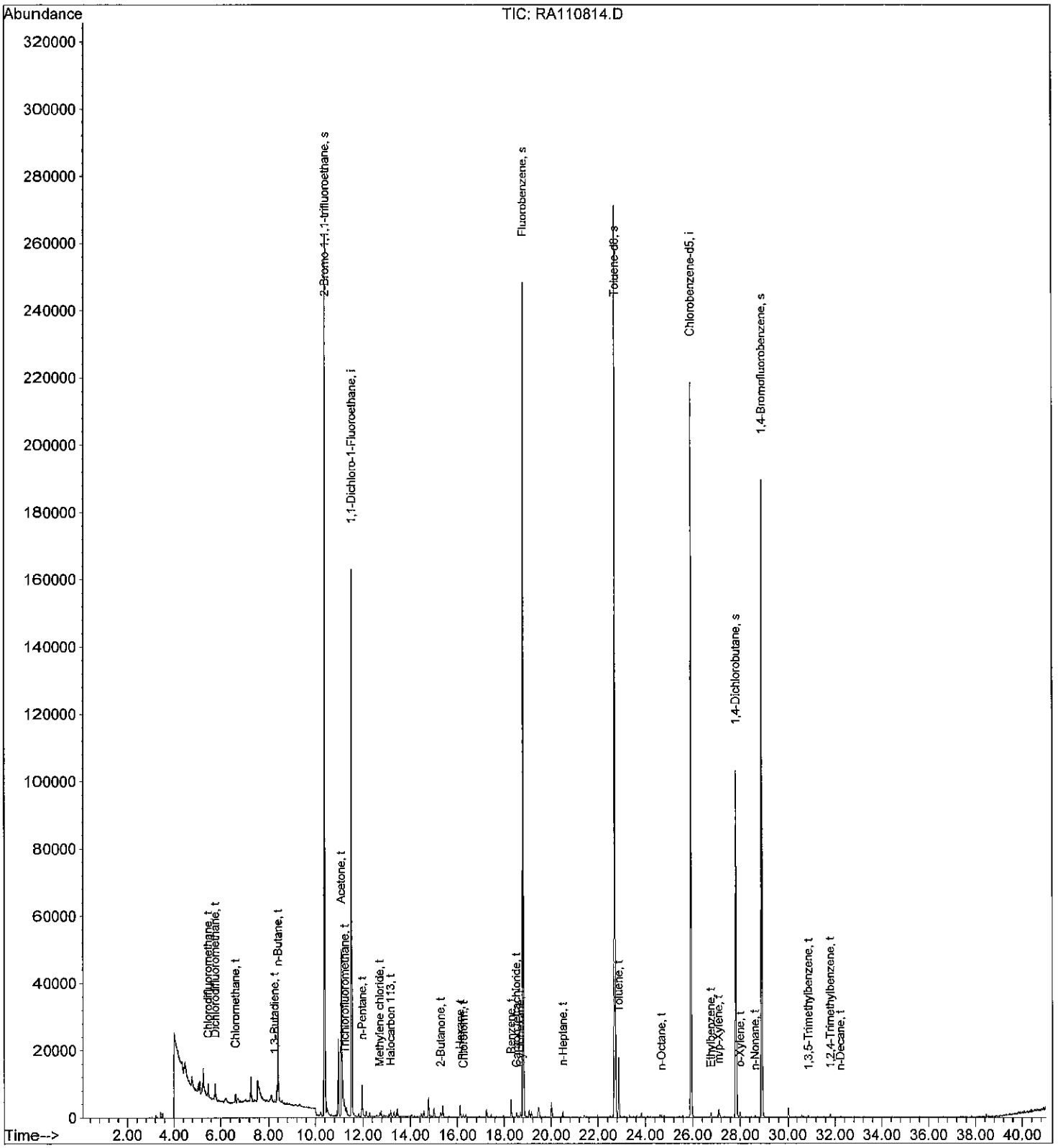
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	167096	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	205762	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	105853	2.0191 ppbV	0.02
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	18.81	96	306283	1.7759 ppbV	0.01
Spiked Amount 2.000			Recovery	= 89.00%	
113) Toluene-d8	22.71	98	272860	2.2327 ppbV	0.00
Spiked Amount 2.000			Recovery	= 111.50%	
115) 1,4-Dichlorobutane	27.83	90	23394	2.0584 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
141) 1,4-Bromofluorobenzene	28.91	95	100397	1.8736 ppbV	0.00
Spiked Amount 2.000			Recovery	= 93.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.47	51	5583	0.1409 ppbV	S	97
10) Dichlorodifluoromethane	5.77	85	8601	0.0944 ppbV	S	98
11) Chloromethane	6.63	50	2816	0.1112 ppbV	S	91
17) 1,3-Butadiene	8.25	39	225	0.0133 ppbV #	S	78
18) n-Butane	8.40	43	23517	0.5454 ppbV	S	98
32) Trichlorofluoromethane	11.23	101	4733	0.0592 ppbV	S	97
34) Acetone	11.08	43	92445m	3.6143 ppbV	S	
37) n-Pentane	11.96	43	7147	0.1692 ppbV	S	94
43) Methylene chloride	12.70	49	657	0.0242 ppbV #	S	72
47) Halocarbon 113	13.18	151	960	0.0158 ppbV #	S	81
62) 2-Butanone	15.28	43	2425	0.0643 ppbV	S	76
71) n-Hexane	16.12	57	1925	0.0412 ppbV	S	93
72) Chloroform	16.24	83	271	0.0044 ppbV #	S	58
84) Benzene	18.29	78	6657	0.0979 ppbV	S	95
85) Carbon tetrachloride	18.52	117	1052	0.0206 ppbV	S	92
87) Cyclohexane	18.69	56	1080	0.0286 ppbV #	S	76
100) n-Heptane	20.50	71	542	0.0203 ppbV #	S	77
114) Toluene	22.87	91	19348	0.2597 ppbV	S	97
125) n-Octane	24.69	43	309	0.0076 ppbV #	S	22
129) Ethylbenzene	26.76	91	1598	0.0206 ppbV	S	82
130) m/p-Xylene	27.09	91	3591m	0.0582 ppbV	S	
136) o-Xylene	28.00	91	1687	0.0276 ppbV	S	76
140) n-Nonane	28.62	43	239	0.0067 ppbV #	S	50
150) 1,3,5-Trimethylbenzene	30.87	105	389	0.0059 ppbV	S	91
153) 1,2,4-Trimethylbenzene	31.80	105	1072	0.0181 ppbV	S	85
158) n-Decane	32.23	57	93	0.0022 ppbV #	S	24

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110814.D Vial: 1
Acq On : 8 Nov 2011 10:44 pm Operator: KRW
Sample : AUJ0241-04,,,,;TCESL Inst : GCMS-R1
Misc : 2.5826,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 10:29 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110815.D Vial: 1
Acq On : 8 Nov 2011 11:44 pm Operator: KRW
Sample : AUJ0241-05,,,,;TCESL Inst : GCMS-R1
Misc : 2.4976,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:26 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

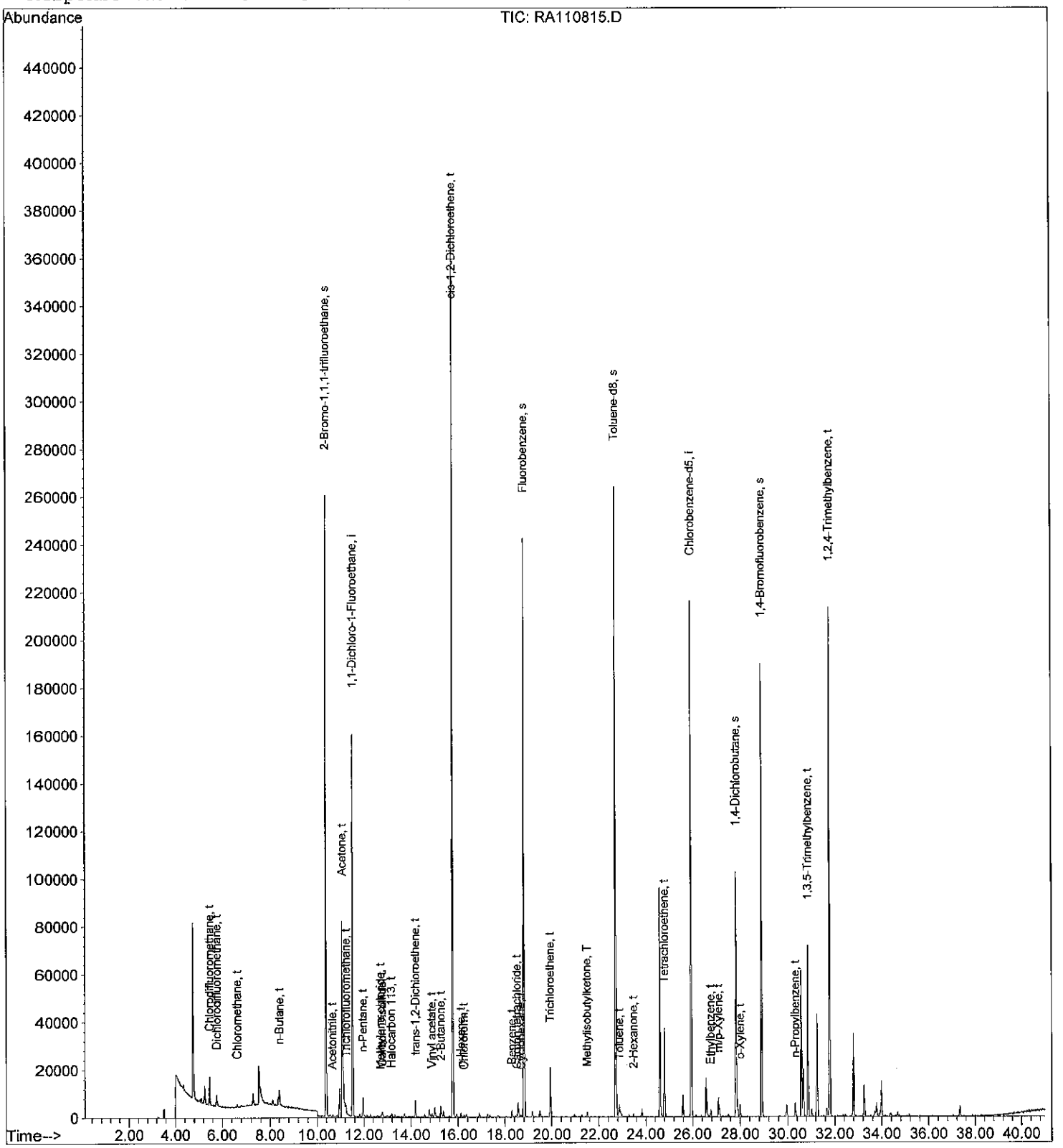
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	166752	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	203931	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	104147	1.9907 ppbV	0.02
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	18.81	96	302310	1.7565 ppbV	0.01
Spiked Amount 2.000			Recovery	= 88.00%	
113) Toluene-d8	22.71	98	261359	2.1578 ppbV	0.00
Spiked Amount 2.000			Recovery	= 108.00%	
115) 1,4-Dichlorobutane	27.83	90	23052	2.0465 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.50%	
141) 1,4-Bromofluorobenzene	28.90	95	100163	1.8860 ppbV	0.00
Spiked Amount 2.000			Recovery	= 94.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.47	51	14590	0.3689 ppbV	S	98
10) Dichlorodifluoromethane	5.78	85	7801	0.0858 ppbV	S	98
11) Chloromethane	6.62	50	758	0.0300 ppbV	S	89
18) n-Butane	8.41	43	4964	0.1154 ppbV	S	98
29) Acetonitrile	10.66	41	619m	0.0405 ppbV	S	
32) Trichlorofluoromethane	11.22	101	3917	0.0491 ppbV	S	99
34) Acetone	11.07	43	155957m	6.1100 ppbV	S	
37) n-Pentane	11.96	43	6567	0.1558 ppbV	S	95
43) Methylene chloride	12.71	49	437	0.0161 ppbV #	S	62
45) Carbon Disulfide	12.79	76	3166	0.0277 ppbV	S	96
47) Halocarbon 113	13.16	151	729	0.0120 ppbV #	S	75
50) trans-1,2-Dichloroethene	14.19	61	4253	0.1045 ppbV	S	94
58) Vinyl acetate	14.89	43	2626	0.0583 ppbV	S	91
62) 2-Butanone	15.25	43	8171	0.2172 ppbV	S	90
68) cis-1,2-Dichloroethene	15.76	61	239824	6.4059 ppbV	S	96
71) n-Hexane	16.12	57	1001	0.0215 ppbV	S	83
72) Chloroform	16.24	83	459	0.0074 ppbV	S	82
84) Benzene	18.29	78	3801	0.0564 ppbV	S	97
85) Carbon tetrachloride	18.51	117	935	0.0185 ppbV	S	95
87) Cyclohexane	18.68	56	589m	0.0158 ppbV	S	
94) Trichloroethene	19.94	130	10263	0.2580 ppbV	S	93
105) Methylisobutylketone	21.49	43	1815	0.0522 ppbV	S	84
114) Toluene	22.87	91	4178	0.0566 ppbV	S	83
116) 2-Hexanone	23.47	43	1210	0.0419 ppbV	S	93
126) Tetrachloroethene	24.80	164	14344	0.4076 ppbV	S	95
129) Ethylbenzene	26.76	91	3794	0.0494 ppbV	S	82
130) m/p-Xylene	27.09	91	10258	0.1678 ppbV	S	96
136) o-Xylene	28.00	91	4665	0.0771 ppbV	S	98
147) n-Propylbenzene	30.33	91	7596	0.0851 ppbV	S	92
150) 1,3,5-Trimethylbenzene	30.87	105	64696	0.9888 ppbV	S	99
153) 1,2,4-Trimethylbenzene	31.79	105	200268	3.4135 ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110815.D Vial: 1
Acq On : 8 Nov 2011 11:44 pm Operator: KRW
Sample : AUJ0241-05,,,,;TCESL Inst : GCMS-R1
Misc : 2.4976,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:26 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110816.D Vial: 1
Acq On : 9 Nov 2011 12:45 am Operator: KRW
Sample : AUJ0241-06,,,,;TCESL Inst : GCMS-R1
Misc : 2.5495,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:31 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

cis-1,2-DCE OR

AAH 11-10-11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	165842	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	200271	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	103226	1.9839 ppbV	0.02
Spiked Amount 2.000			Recovery	= 99.00%	
65) Fluorobenzene	18.81	96	299571	1.7501 ppbV	0.01
Spiked Amount 2.000			Recovery	= 87.50%	
113) Toluene-d8	22.70	98	261782	2.2008 ppbV	0.00
Spiked Amount 2.000			Recovery	= 110.00%	
115) 1,4-Dichlorobutane	27.83	90	21707	1.9623 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	
141) 1,4-Bromofluorobenzene	28.91	95	95783	1.8365 ppbV	0.00
Spiked Amount 2.000			Recovery	= 92.00%	

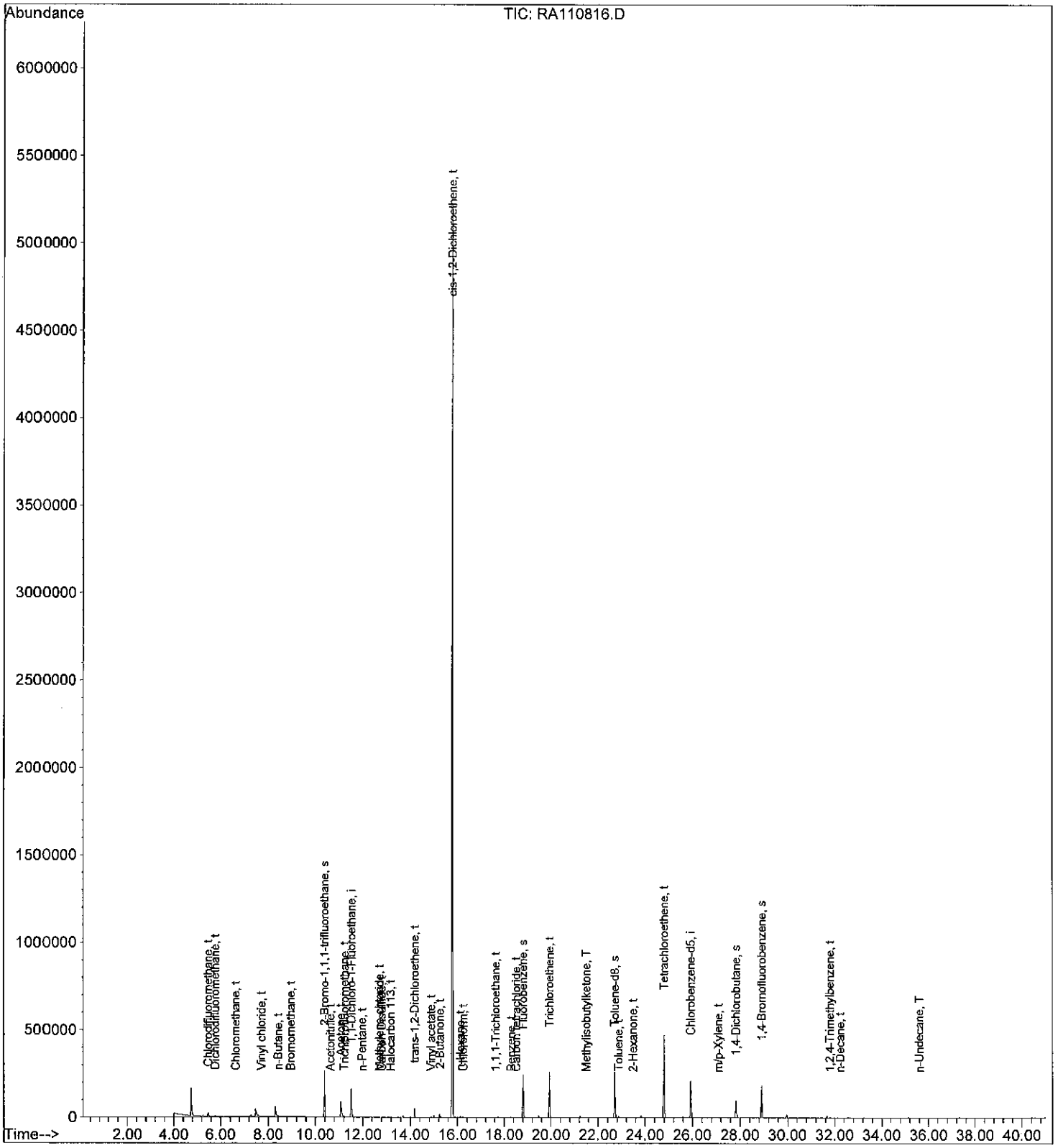
Target Compounds						Qvalue
8) Chlorodifluoromethane	5.47	51	26816	0.6818 ppbV	S	99
10) Dichlorodifluoromethane	5.77	85	8473	0.0937 ppbV	S	98
11) Chloromethane	6.62	50	2153	0.0857 ppbV	S	92
15) Vinyl chloride	7.71	62	1999	0.0578 ppbV	S	92
18) n-Butane	8.42	43	1293	0.0302 ppbV	S	86
23) Bromomethane	8.95	94	106	0.0028 ppbV	S	91
29) Acetonitrile	10.64	41	1737m	0.1144 ppbV	S	
32) Trichlorofluoromethane	11.23	101	4292	0.0541 ppbV	S	95
34) Acetone	11.07	43	166351m	6.5530 ppbV	S	
37) n-Pentane	11.96	43	1121	0.0267 ppbV	S	93
43) Methylene chloride	12.72	49	260	0.0096 ppbV #	S	75
45) Carbon Disulfide	12.79	76	914	0.0080 ppbV	S	65
47) Halocarbon 113	13.19	151	961	0.0159 ppbV	S	85
50) trans-1,2-Dichloroethene	14.19	61	31149	0.7698 ppbV	S	99
58) Vinyl acetate	14.87	43	8735	0.1951 ppbV	S	88
62) 2-Butanone	15.24	43	28817	0.7702 ppbV	S	96
68) cis-1,2-Dichloroethene	15.78	61	3434512	92.2419 ppbV	S	94
71) n-Hexane	16.12	57	3170	0.0684 ppbV	S	81
72) Chloroform	16.24	83	1793	0.0291 ppbV	S	90
81) 1,1,1-Trichloroethane	17.62	97	234m	0.0036 ppbV	S	
84) Benzene	18.29	78	3476	0.0525 ppbV	S	88
85) Carbon tetrachloride	18.51	117	949	0.0191 ppbV	S	88
94) Trichloroethene	19.94	130	126746	3.2449 ppbV	S	96
105) Methylisobutylketone	21.49	43	643	0.0188 ppbV	S	78
114) Toluene	22.87	91	7057	0.0973 ppbV	S	95
116) 2-Hexanone	23.48	43	1291	0.0455 ppbV	S	75
126) Tetrachloroethene	24.80	164	178815	5.1745 ppbV	S	99
130) m/p-Xylene	27.08	91	243m	0.0040 ppbV	S	
153) 1,2,4-Trimethylbenzene	31.79	105	703	0.0122 ppbV	S	91
158) n-Decane	32.24	57	86	0.0021 ppbV #	S	63
171) n-Undecane	35.60	57	309	0.0067 ppbV #	S	56

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110816.D Vial: 1
Acq On : 9 Nov 2011 12:45 am Operator: KRW
Sample : AUJ0241-06,,,,;TCESL Inst : GCMS-R1
Misc : 2.5495,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:31 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110817.D Vial: 1
Acq On : 9 Nov 2011 1:45 am Operator: KRW
Sample : AUJ0241-07,,,,;TCESL Inst : GCMS-R1
Misc : 3.1554,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:32 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

Acetone OK

11-10-11

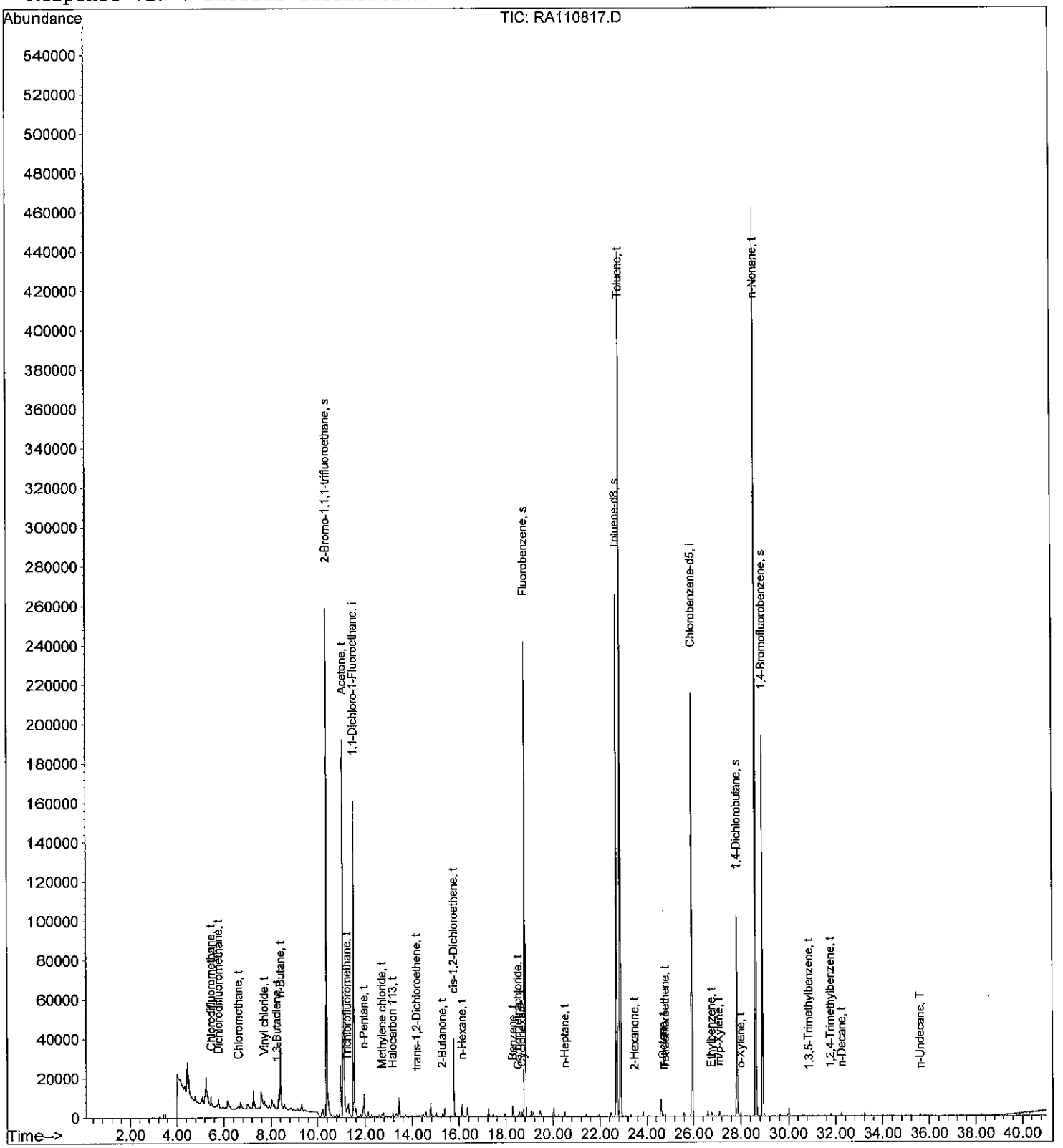
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	163965	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	204594	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	103734	2.0165 ppbV	0.02
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	18.81	96	300990	1.7785 ppbV	0.00
Spiked Amount 2.000			Recovery	= 89.00%	
113) Toluene-d8	22.71	98	264958	2.1804 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.00%	
115) 1,4-Dichlorobutane	27.83	90	23369	2.0679 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	
141) 1,4-Bromofluorobenzene	28.91	95	105664	1.9831 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.47	51	6815	0.1753 ppbV	S	99
10) Dichlorodifluoromethane	5.77	85	7325	0.0820 ppbV	S	97
11) Chloromethane	6.63	50	2079	0.0837 ppbV	S	85
15) Vinyl chloride	7.70	62	835	0.0244 ppbV	S	89
17) 1,3-Butadiene	8.26	39	190	0.0114 ppbV #	S	75
18) n-Butane	8.40	43	28097	0.6641 ppbV	S	99
32) Trichlorofluoromethane	11.22	101	3891	0.0496 ppbV	S	91
34) Acetone	11.05	43	304889m	12.1479 ppbV	S	
37) n-Pentane	11.95	43	8694	0.2097 ppbV	S	97
43) Methylene chloride	12.71	49	769	0.0289 ppbV	S	85
47) Halocarbon 113	13.17	151	632	0.0106 ppbV	S	88
50) trans-1,2-Dichloroethene	14.18	61	240	0.0060 ppbV #	S	55
62) 2-Butanone	15.27	43	3191	0.0863 ppbV	S	88
68) cis-1,2-Dichloroethene	15.76	61	25287	0.6869 ppbV	S	96
71) n-Hexane	16.12	57	3536	0.0772 ppbV	S	83
84) Benzene	18.29	78	7108	0.1051 ppbV	S	96
85) Carbon tetrachloride	18.51	117	752	0.0148 ppbV #	S	77
87) Cyclohexane	18.68	56	1394	0.0372 ppbV #	S	73
100) n-Heptane	20.51	71	583	0.0220 ppbV #	S	72
114) Toluene	22.87	91	490571	6.6228 ppbV	S	99
116) 2-Hexanone	23.47	43	168	0.0058 ppbV #	S	30
125) n-Octane	24.69	43	769	0.0190 ppbV #	S	22
126) Tetrachloroethene	24.78	164	423	0.0120 ppbV #	S	69
129) Ethylbenzene	26.75	91	2172	0.0282 ppbV	S	80
130) m/p-Xylene	27.08	91	4119m	0.0672 ppbV	S	
136) o-Xylene	27.99	91	1950	0.0321 ppbV	S	89
140) n-Nonane	28.62	43	237494	6.6556 ppbV	S	94
150) 1,3,5-Trimethylbenzene	30.87	105	537	0.0082 ppbV #	S	38
153) 1,2,4-Trimethylbenzene	31.78	105	1639	0.0278 ppbV	S	74
158) n-Decane	32.24	57	823	0.0199 ppbV	S	81
171) n-Undecane	35.61	57	789	0.0167 ppbV	S	79

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110817.D Vial: 1
Acq On : 9 Nov 2011 1:45 am Operator: KRW
Sample : AUJ0241-07,,,,;TCESL Inst : GCMS-R1
Misc : 3.1554,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:32 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110818.D Vial: 1
Acq On : 9 Nov 2011 2:46 am Operator: KRW
Sample : AUJ0241-08,,,,;TCESL Inst : GCMS-R1
Misc : 2.7007,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:34 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

Acetone OR

MW 11/10/11

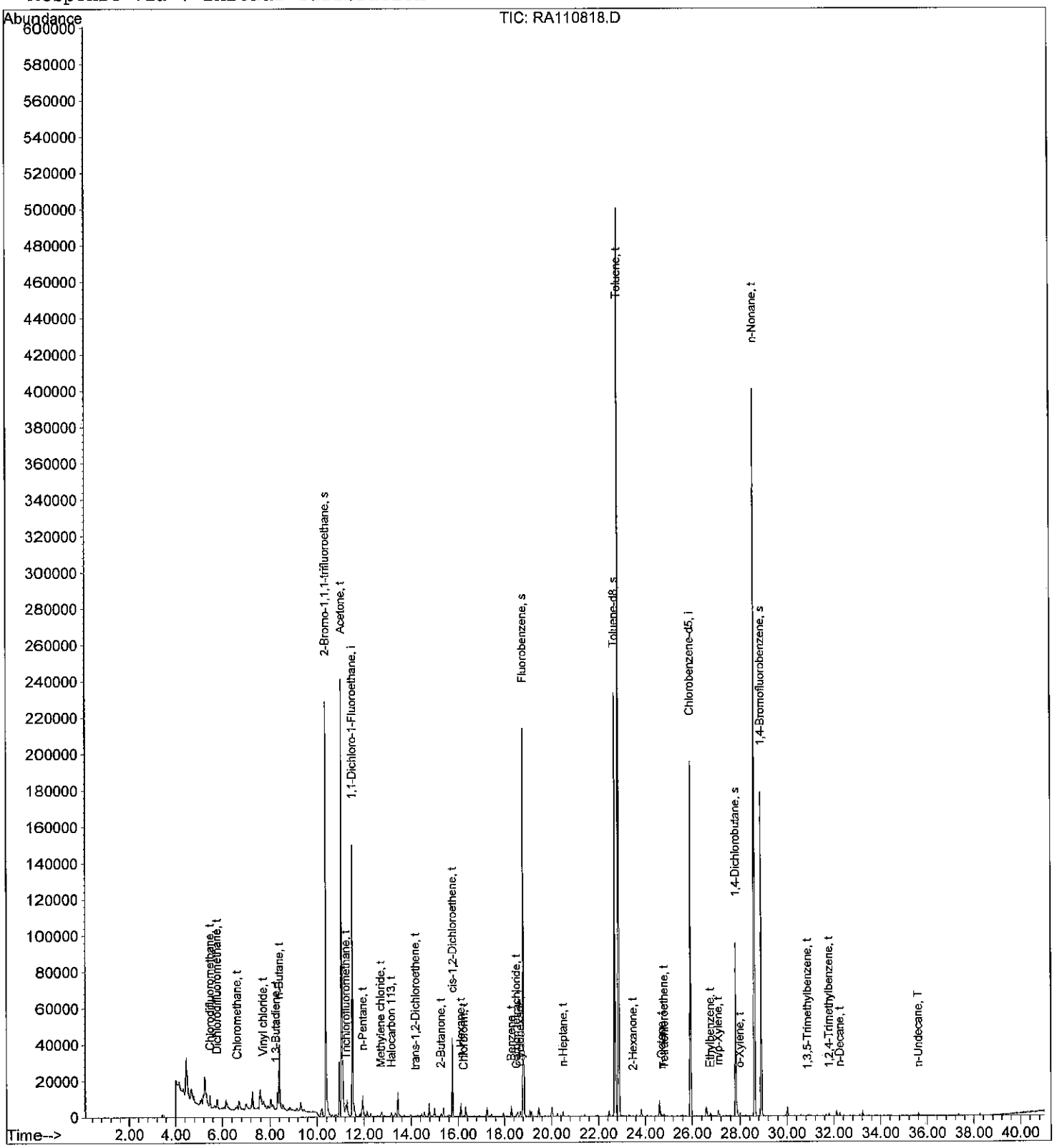
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	151990	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	186143	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	90746	1.9030 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.00%	
65) Fluorobenzene	18.81	96	269641	1.7188 ppbV	0.00
Spiked Amount 2.000			Recovery	= 86.00%	
113) Toluene-d8	22.70	98	233947	2.1160 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	
115) 1,4-Dichlorobutane	27.83	90	21270	2.0688 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.50%	
141) 1,4-Bromofluorobenzene	28.90	95	97141	2.0039 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.47	51	8260	0.2291 ppbV	S	97
10) Dichlorodifluoromethane	5.77	85	8333	0.1006 ppbV	S	96
11) Chloromethane	6.62	50	2476	0.1075 ppbV	S	91
15) Vinyl chloride	7.70	62	820	0.0259 ppbV	S	93
17) 1,3-Butadiene	8.25	39	308	0.0200 ppbV #	S	60
18) n-Butane	8.40	43	29834	0.7607 ppbV	S	99
32) Trichlorofluoromethane	11.22	101	4238	0.0582 ppbV	S	95
34) Acetone	11.04	43	365501m	15.7103 ppbV	S	
37) n-Pentane	11.95	43	8515	0.2216 ppbV	S	97
43) Methylene chloride	12.70	49	880	0.0356 ppbV	S	89
47) Halocarbon 113	13.16	151	826	0.0150 ppbV #	S	77
50) trans-1,2-Dichloroethene	14.19	61	300	0.0081 ppbV #	S	61
62) 2-Butanone	15.27	43	3636	0.1060 ppbV	S	73
68) cis-1,2-Dichloroethene	15.77	61	27294	0.7999 ppbV	S	96
71) n-Hexane	16.12	57	4273	0.1006 ppbV	S	82
72) Chloroform	16.23	83	217	0.0038 ppbV	S	86
84) Benzene	18.28	78	7249	0.1178 ppbV	S	97
85) Carbon tetrachloride	18.51	117	1103	0.0239 ppbV	S	90
87) Cyclohexane	18.67	56	1468	0.0430 ppbV	S	84
100) n-Heptane	20.50	71	692	0.0286 ppbV	S	85
114) Toluene	22.87	91	561088	8.3256 ppbV	S	97
116) 2-Hexanone	23.48	43	182	0.0069 ppbV	S	77
125) n-Octane	24.70	43	658	0.0179 ppbV #	S	70
126) Tetrachloroethene	24.80	164	434	0.0135 ppbV #	S	83
129) Ethylbenzene	26.75	91	2157	0.0308 ppbV	S	89
130) m/p-Xylene	27.09	91	4671	0.0837 ppbV	S	85
136) o-Xylene	28.00	91	2244	0.0406 ppbV	S	76
140) n-Nonane	28.62	43	205388	6.3264 ppbV	S	94
150) 1,3,5-Trimethylbenzene	30.86	105	506	0.0085 ppbV	S	86
153) 1,2,4-Trimethylbenzene	31.79	105	1758	0.0328 ppbV	S	88
158) n-Decane	32.23	57	1143	0.0304 ppbV	S	90
171) n-Undecane	35.61	57	850	0.0197 ppbV	S	91

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110818.D Vial: 1
Acq On : 9 Nov 2011 2:46 am Operator: KRW
Sample : AUJ0241-08,,,,;TCESL Inst : GCMS-R1
Misc : 2.7007,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:34 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110819.D Vial: 1
Acq On : 9 Nov 2011 3:46 am Operator: KRW
Sample : AUJ0241-09,,,,;TCESL Inst : GCMS-R1
Misc : 2.6506,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 11:13 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

MM 11/10/11

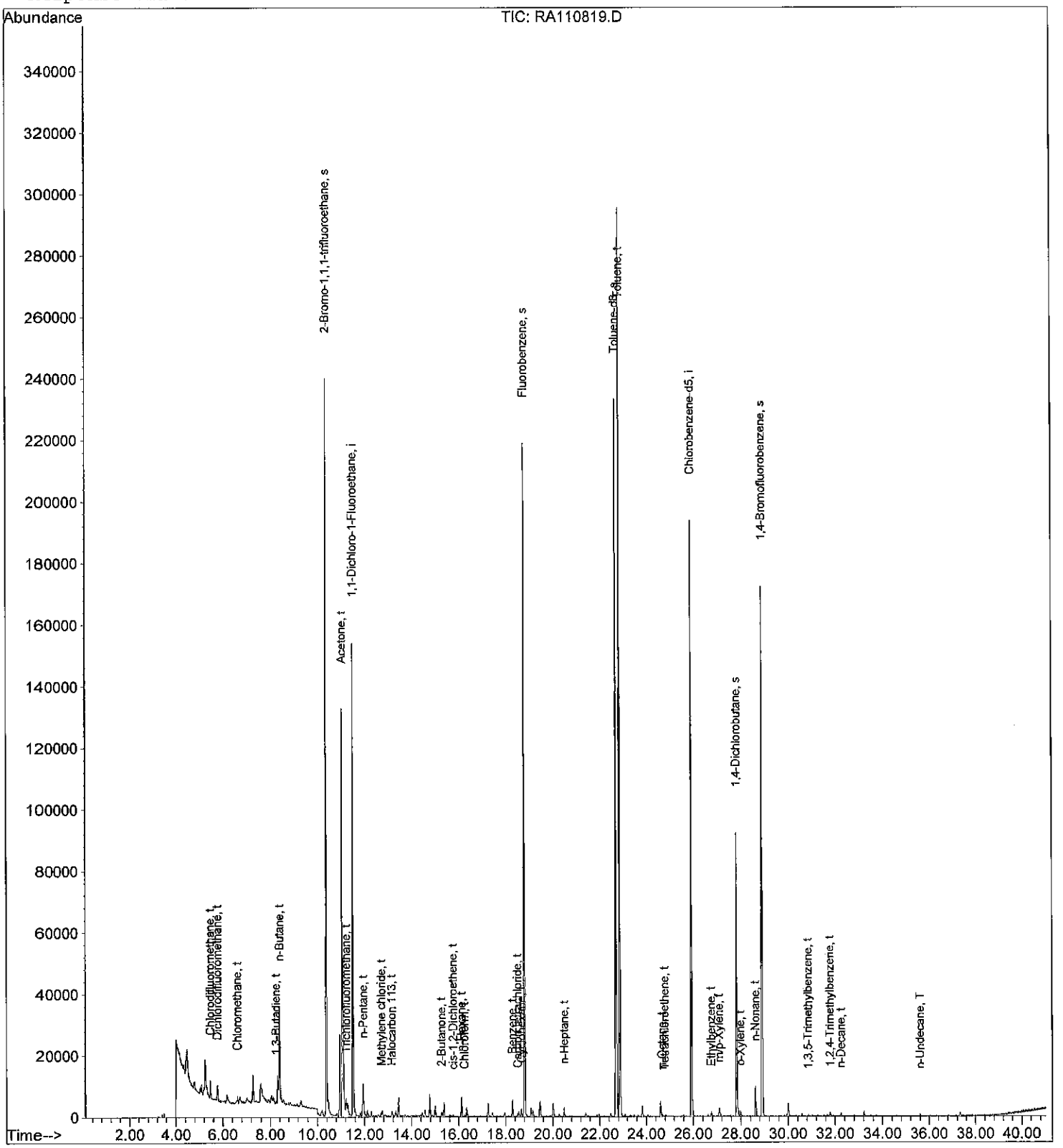
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	155517	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	180142	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	97078	1.9896 ppbV	0.02
Spiked Amount 2.000			Recovery	= 99.50%	
65) Fluorobenzene	18.81	96	272553	1.6980 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.00%	
113) Toluene-d8	22.71	98	234466	2.1914 ppbV	0.00
Spiked Amount 2.000			Recovery	= 109.50%	
115) 1,4-Dichlorobutane	27.83	90	20836	2.0941 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.50%	
141) 1,4-Bromofluorobenzene	28.91	95	93241	1.9875 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.47	51	7426	0.2013 ppbV	S	98
10) Dichlorodifluoromethane	5.77	85	8440	0.0996 ppbV	S	94
11) Chloromethane	6.63	50	2526	0.1072 ppbV	S	86
17) 1,3-Butadiene	8.25	39	221	0.0140 ppbV #	S	82
18) n-Butane	8.40	43	27733	0.6911 ppbV	S	98
32) Trichlorofluoromethane	11.22	101	4331	0.0582 ppbV	S	87
34) Acetone	11.06	43	219803m	9.2335 ppbV	S	
37) n-Pentane	11.95	43	8835	0.2247 ppbV	S	97
43) Methylene chloride	12.71	49	828	0.0328 ppbV	S	96
47) Halocarbon 113	13.16	151	825m	0.0146 ppbV	S	
62) 2-Butanone	15.27	43	2799	0.0798 ppbV	S	82
68) cis-1,2-Dichloroethene	15.77	61	206	0.0059 ppbV #	S	58
71) n-Hexane	16.12	57	3456	0.0795 ppbV	S	92
72) Chloroform	16.24	83	305	0.0053 ppbV	S	83
84) Benzene	18.29	78	6969	0.1170 ppbV	S	98
85) Carbon tetrachloride	18.52	117	865	0.0193 ppbV #	S	73
87) Cyclohexane	18.67	56	1332	0.0403 ppbV	S	87
100) n-Heptane	20.50	71	654	0.0280 ppbV #	S	78
114) Toluene	22.87	91	327828	5.0265 ppbV	S	97
125) n-Octane	24.69	43	469m	0.0132 ppbV	S	
126) Tetrachloroethene	24.79	164	74	0.0024 ppbV #	S	58
129) Ethylbenzene	26.75	91	2189	0.0323 ppbV	S	77
130) m/p-Xylene	27.09	91	4231m	0.0784 ppbV	S	
136) o-Xylene	28.00	91	2109	0.0395 ppbV	S	93
140) n-Nonane	28.62	43	4556	0.1450 ppbV	S	80
150) 1,3,5-Trimethylbenzene	30.85	105	415	0.0072 ppbV	S	75
153) 1,2,4-Trimethylbenzene	31.78	105	1688	0.0326 ppbV	S	90
158) n-Decane	32.25	57	716	0.0197 ppbV #	S	68
171) n-Undecane	35.61	57	360m	0.0086 ppbV	S	

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110819.D Vial: 1
Acq On : 9 Nov 2011 3:46 am Operator: KRW
Sample : AUJ0241-09,,,,;TCESL Inst : GCMS-R1
Misc : 2.6506,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 11:13 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110820.D Vial: 1
Acq On : 9 Nov 2011 4:46 am Operator: KRW
Sample : 11K0093-DUP1,,,,;TCESL Inst : GCMS-R1
Misc : 2.6506,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 11:19 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

MW 11/10/11

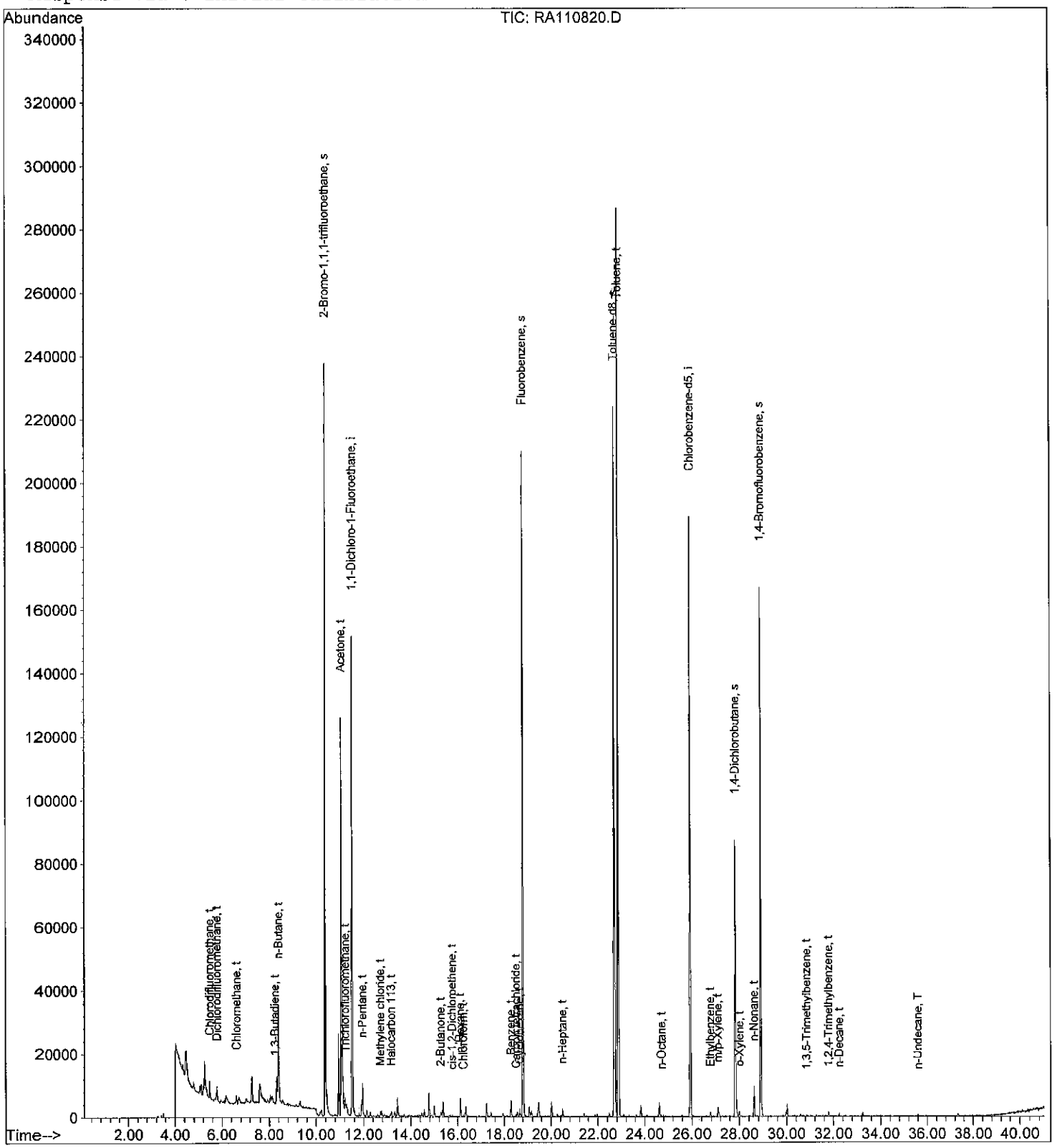
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	153134	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	176082	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	92942	1.9345 ppbV	0.02
Spiked Amount 2.000			Recovery	= 96.50%	
65) Fluorobenzene	18.81	96	259607	1.6425 ppbV	0.00
Spiked Amount 2.000			Recovery	= 82.00%	
113) Toluene-d8	22.71	98	225368	2.1549 ppbV	0.00
Spiked Amount 2.000			Recovery	= 107.50%	
115) 1,4-Dichlorobutane	27.83	90	19995	2.0559 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
141) 1,4-Bromofluorobenzene	28.90	95	90856	1.9813 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.00%	

Target Compounds						Qvalue
8) Chlorodifluoromethane	5.47	51	7508	0.2067 ppbV	S	98
10) Dichlorodifluoromethane	5.77	85	8218	0.0984 ppbV	S	99
11) Chloromethane	6.62	50	2369	0.1021 ppbV	S	98
17) 1,3-Butadiene	8.25	39	258	0.0166 ppbV #	S	61
18) n-Butane	8.40	43	26857	0.6797 ppbV	S	98
32) Trichlorofluoromethane	11.22	101	4278	0.0584 ppbV	S	81
34) Acetone	11.06	43	210443m	8.9779 ppbV	S	
37) n-Pentane	11.96	43	8863	0.2289 ppbV	S	97
43) Methylene chloride	12.71	49	825	0.0331 ppbV	S	90
47) Halocarbon 113	13.17	151	795	0.0143 ppbV	S	83
62) 2-Butanone	15.27	43	2780	0.0805 ppbV	S	82
68) cis-1,2-Dichloroethene	15.77	61	75	0.0022 ppbV #	S	53
71) n-Hexane	16.12	57	3267	0.0764 ppbV	S	81
72) Chloroform	16.24	83	242	0.0043 ppbV #	S	52
84) Benzene	18.28	78	6588	0.1132 ppbV	S	97
85) Carbon tetrachloride	18.52	117	767	0.0175 ppbV #	S	63
87) Cyclohexane	18.67	56	1414	0.0438 ppbV	S	86
100) n-Heptane	20.49	71	730	0.0319 ppbV	S	91
114) Toluene	22.87	91	320283	5.0240 ppbV	S	97
125) n-Octane	24.70	43	503	0.0144 ppbV #	S	72
129) Ethylbenzene	26.76	91	1937	0.0292 ppbV	S	90
130) m/p-Xylene	27.09	91	4053m	0.0768 ppbV	S	
136) o-Xylene	28.00	91	1969	0.0377 ppbV	S	83
140) n-Nonane	28.62	43	4491	0.1462 ppbV	S	79
150) 1,3,5-Trimethylbenzene	30.85	105	417	0.0074 ppbV #	S	38
153) 1,2,4-Trimethylbenzene	31.79	105	1629	0.0322 ppbV	S	82
158) n-Decane	32.24	57	549m	0.0155 ppbV	S	
171) n-Undecane	35.60	57	371	0.0091 ppbV #	S	57

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110820.D Vial: 1
Acq On : 9 Nov 2011 4:46 am Operator: KRW
Sample : 11K0093-DUP1,,,,;TCESL Inst : GCMS-R1
Misc : 2.6506,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 11:19 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110821.D Vial: 1
Acq On : 9 Nov 2011 5:47 am Operator: KRW
Sample : AUJ0241-10,,,,;TCESL Inst : GCMS-R1
Misc : 2.6727,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 11:24 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

MM 11/10/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	152795	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	170022	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	94228	1.9656 ppbV	0.02
Spiked Amount 2.000			Recovery	= 98.50%	
65) Fluorobenzene	18.81	96	265186	1.6815 ppbV	0.00
Spiked Amount 2.000			Recovery	= 84.00%	
113) Toluene-d8	22.70	98	223751	2.2157 ppbV	0.00
Spiked Amount 2.000			Recovery	= 111.00%	
115) 1,4-Dichlorobutane	27.83	90	19287	2.0537 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.50%	
141) 1,4-Bromofluorobenzene	28.90	95	85664	1.9347 ppbV	0.00
Spiked Amount 2.000			Recovery	= 96.50%	

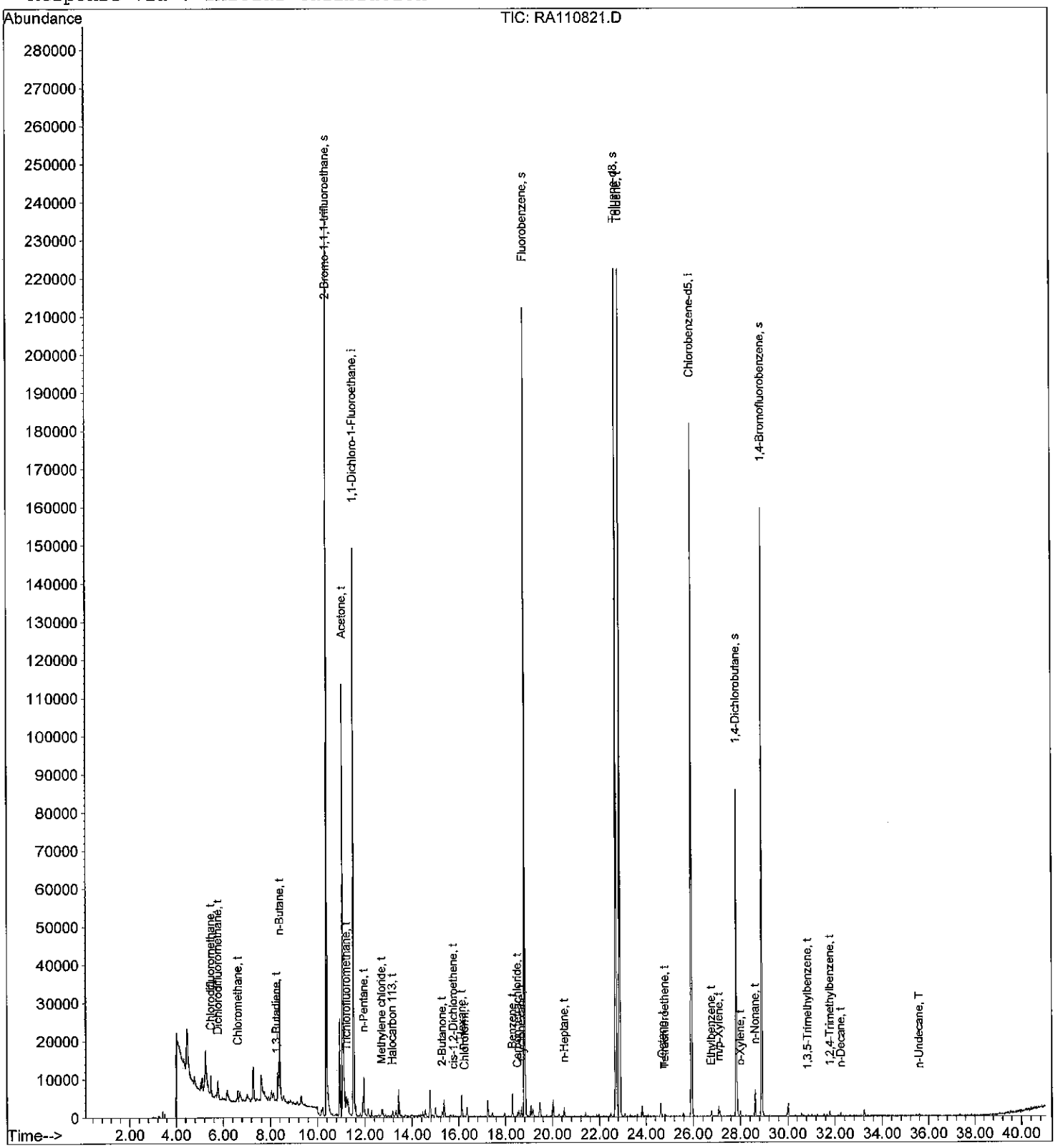
Target Compounds					Qvalue
8) Chlorodifluoromethane	5.47	51	7266	0.2005 ppbV S	97
10) Dichlorodifluoromethane	5.77	85	8242	0.0990 ppbV S	96
11) Chloromethane	6.63	50	2342	0.1011 ppbV S	92
17) 1,3-Butadiene	8.26	39	213	0.0138 ppbV # S	67
18) n-Butane	8.40	43	26699	0.6772 ppbV S	98
32) Trichlorofluoromethane	11.22	101	4287	0.0586 ppbV S	96
34) Acetone	11.06	43	196725m	8.4113 ppbV S	
37) n-Pentane	11.96	43	8726	0.2259 ppbV S	92
43) Methylene chloride	12.71	49	826	0.0333 ppbV S	86
47) Halocarbon 113	13.16	151	696	0.0125 ppbV # S	74
62) 2-Butanone	15.27	43	2295	0.0666 ppbV S	78
68) cis-1,2-Dichloroethene	15.76	61	74	0.0022 ppbV # S	59
71) n-Hexane	16.12	57	3095	0.0725 ppbV S	89
72) Chloroform	16.25	83	283	0.0050 ppbV # S	31
84) Benzene	18.29	78	6704	0.1193 ppbV S	99
85) Carbon tetrachloride	18.50	117	927	0.0219 ppbV # S	73
87) Cyclohexane	18.68	56	1317	0.0422 ppbV S	79
100) n-Heptane	20.49	71	636	0.0288 ppbV # S	56
114) Toluene	22.87	91	247930	4.0277 ppbV S	98
125) n-Octane	24.70	43	385	0.0115 ppbV # S	67
126) Tetrachloroethene	24.79	164	93	0.0032 ppbV # S	23
129) Ethylbenzene	26.75	91	2136	0.0334 ppbV S	70
130) m/p-Xylene	27.09	91	4060m	0.0797 ppbV S	
136) o-Xylene	28.00	91	1976	0.0392 ppbV S	90
140) n-Nonane	28.62	43	3345	0.1128 ppbV # S	73
150) 1,3,5-Trimethylbenzene	30.85	105	515m	0.0094 ppbV S	
153) 1,2,4-Trimethylbenzene	31.79	105	1589	0.0325 ppbV S	89
158) n-Decane	32.25	57	545	0.0159 ppbV # S	59
171) n-Undecane	35.60	57	277	0.0070 ppbV # S	60

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110821.D Vial: 1
Acq On : 9 Nov 2011 5:47 am Operator: KRW
Sample : AUJ0241-10,,,,;TCESL Inst : GCMS-R1
Misc : 2.6727,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 11:24 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110822.D Vial: 1
Acq On : 9 Nov 2011 6:48 am Operator: KRW
Sample : 11K0093-DUP2,,,,;TCESL Inst : GCMS-R1
Misc : 2.6727,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 11:28 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

DAH 11/10/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	139473	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	160793	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	82767	1.8914 ppbV	0.02
Spiked Amount 2.000			Recovery	= 94.50%	
65) Fluorobenzene	18.81	96	228416	1.5867 ppbV	0.00
Spiked Amount 2.000			Recovery	= 79.50%	
113) Toluene-d8	22.71	98	196465	2.0572 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
115) 1,4-Dichlorobutane	27.83	90	18698	2.1053 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
141) 1,4-Bromofluorobenzene	28.90	95	83906	2.0037 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.00%	

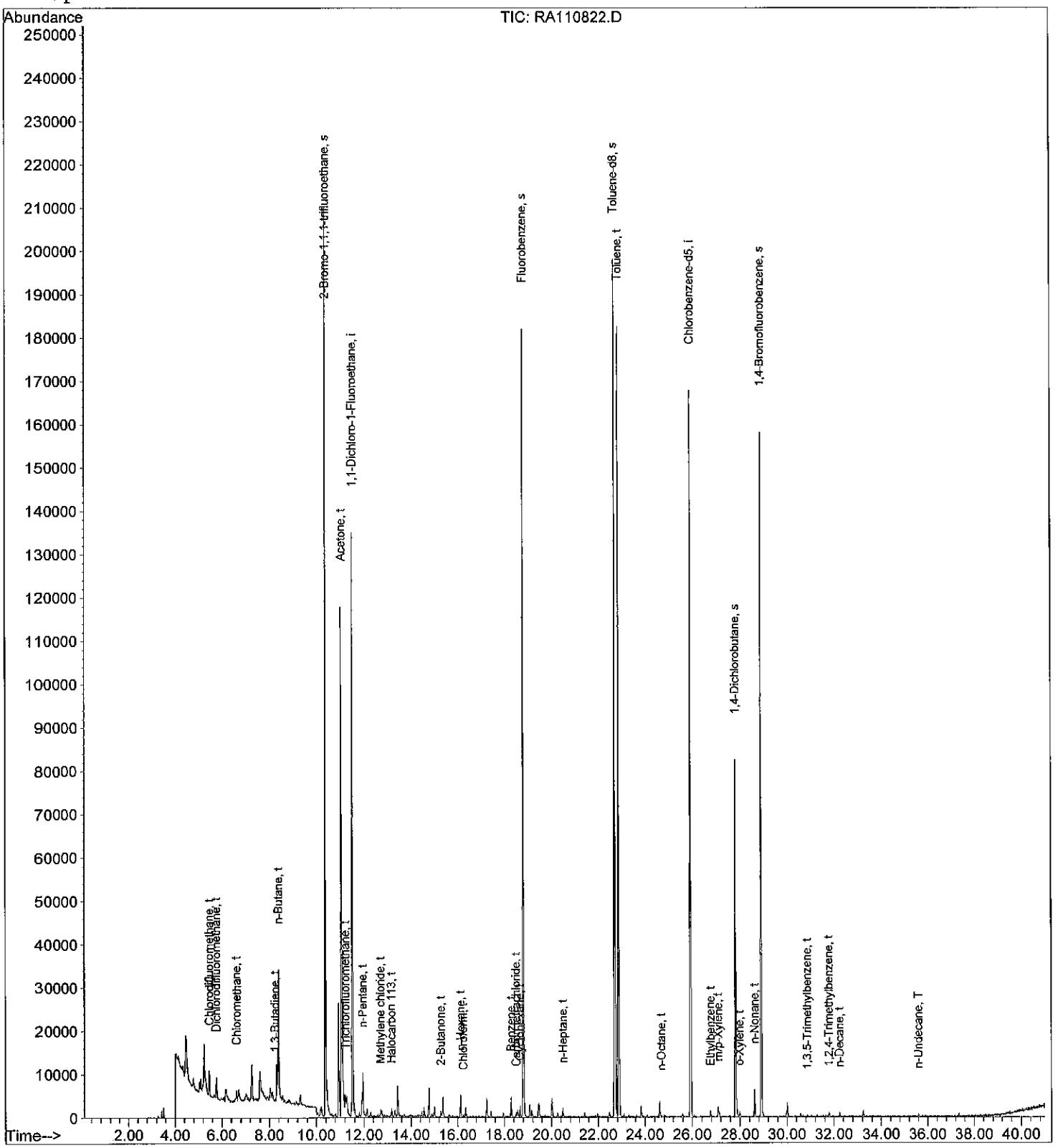
Target Compounds						Qvalue
8) Chlorodifluoromethane	5.47	51	7200	0.2177 ppbV	S	95
10) Dichlorodifluoromethane	5.77	85	8195	0.1078 ppbV	S	94
11) Chloromethane	6.62	50	2311	0.1093 ppbV	S	93
17) 1,3-Butadiene	8.25	39	164	0.0116 ppbV #	S	89
18) n-Butane	8.40	43	26417	0.7340 ppbV	S	99
32) Trichlorofluoromethane	11.22	101	3951	0.0592 ppbV	S	93
34) Acetone	11.06	43	197943m	9.2717 ppbV	S	
37) n-Pentane	11.95	43	8685	0.2463 ppbV	S	91
43) Methylene chloride	12.71	49	828	0.0365 ppbV	S	80
47) Halocarbon 113	13.17	151	855	0.0169 ppbV	S	92
62) 2-Butanone	15.27	43	2138	0.0679 ppbV	S	93
71) n-Hexane	16.12	57	2683	0.0689 ppbV	S	80
72) Chloroform	16.23	83	242	0.0047 ppbV	S	88
84) Benzene	18.29	78	6044	0.1137 ppbV	S	92
85) Carbon tetrachloride	18.51	117	959	0.0240 ppbV	S	88
87) Cyclohexane	18.68	56	1334	0.0452 ppbV	S	84
100) n-Heptane	20.50	71	556	0.0266 ppbV	S	96
114) Toluene	22.87	91	204042	3.5050 ppbV	S	97
125) n-Octane	24.69	43	337	0.0106 ppbV #	S	22
129) Ethylbenzene	26.76	91	1711	0.0283 ppbV	S	83
130) m/p-Xylene	27.08	91	3469m	0.0720 ppbV	S	
136) o-Xylene	28.00	91	1689	0.0354 ppbV	S	89
140) n-Nonane	28.61	43	2880	0.1027 ppbV	S	89
150) 1,3,5-Trimethylbenzene	30.87	105	435	0.0084 ppbV #	S	38
153) 1,2,4-Trimethylbenzene	31.78	105	1415	0.0306 ppbV	S	89
158) n-Decane	32.24	57	655	0.0202 ppbV	S	77
171) n-Undecane	35.60	57	261	0.0070 ppbV #	S	60

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110822.D Vial: 1
Acq On : 9 Nov 2011 6:48 am Operator: KRW
Sample : 11K0093-DUP2,,,,;TCESL Inst : GCMS-R1
Misc : 2.6727,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 9 11:28 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110823.D Vial: 1
Acq On : 9 Nov 2011 7:48 am Operator: KRW
Sample : 11K0093-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:42 19111 Quant Results File: RA111026.RES

Quant Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration
DataAcq Meth : RA111026

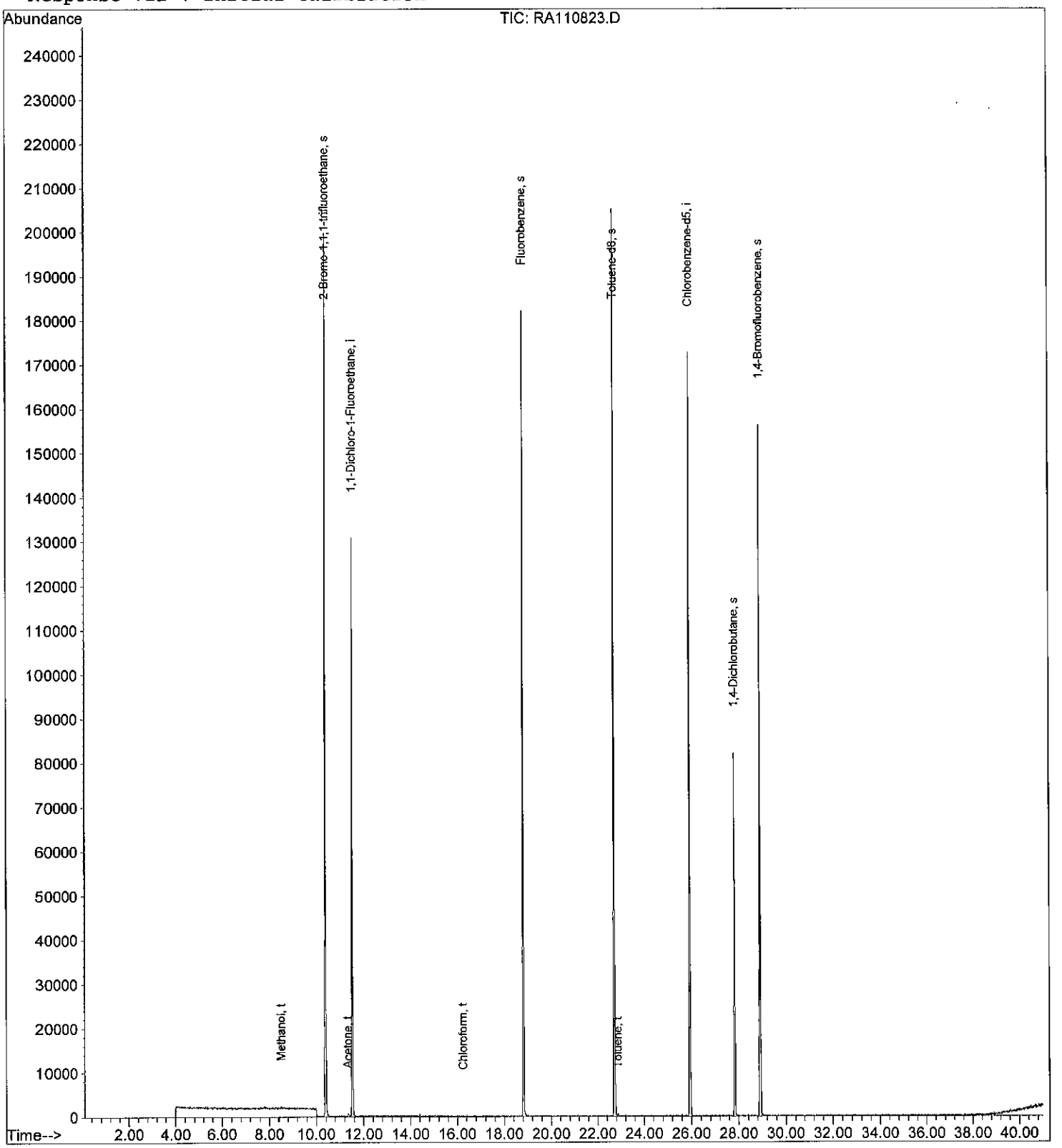
11/10/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.51	81	135562	2.0000 ppbV	0.02
82) Chlorobenzene-d5	25.93	117	163322	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.38	83	80921	1.9026 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.00%	
65) Fluorobenzene	18.81	96	226094	1.6159 ppbV	0.00
Spiked Amount 2.000			Recovery	= 81.00%	
113) Toluene-d8	22.71	98	204439	2.1075 ppbV	0.00
Spiked Amount 2.000			Recovery	= 105.50%	
115) 1,4-Dichlorobutane	27.83	90	18618	2.0638 ppbV	0.00
Spiked Amount 2.000			Recovery	= 103.00%	
141) 1,4-Bromofluorobenzene	28.90	95	82773	1.9461 ppbV	0.00
Spiked Amount 2.000			Recovery	= 97.50%	
Target Compounds					Qvalue
19) Methanol	8.50	31	155m	0.0383 ppbV	
34) Acetone	11.32	43	1080m	0.0520 ppbV	
72) Chloroform	16.23	83	150	0.0030 ppbV	90
114) Toluene	22.87	91	774	0.0131 ppbV	94

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC7\HPCHEM\7\DATA\R111108\RA110823.D Vial: 1
Acq On : 9 Nov 2011 7:48 am Operator: KRW
Sample : 11K0093-BLK1 Inst : GCMS-R1
Misc : 1,1,1000,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 10 15:42 19111 Quant Results File: RA111026.RES

Method : O:\MSVOC7\HPCHEM\7\METHODS\RA111026.M (RTE Integrator)
Title :
Last Update : Thu Oct 27 14:46:27 2011
Response via : Initial Calibration



INSTRUMENT VMSC ANALYST/DATE: WOL 11/11/11 METHOD / TEST: TO15AM SOP #: AU-VA-007

COMPUTER CLOCK DATE / TIME: 11/11/11 Batch ID: 11K0145

DAILY CHECK ✓	INSERT: CHANGED (Y/N)	SEPTA: CHANGED (Y/N)	COLUMN: CHANGED (Y/N)	AUTOSAMPLER MAINT. NA
M. PUMP OIL ✓	TURBO OIL NO	FILAMENT CHANGE NO	OTHER NA	
NO MAINTENANCE REQUIRED:			RETURNED TO SERVICE:	

DAILY CHECK includes sufficient carrier and detector gases, correct column flow/pressure, condition of septa, etc. Glass insert, septa, column and gases changed as needed. Source cleaned as needed. Mechanical pump oil and turbomolecular pump oil changed semiannually (usually on service contract). OTHER is for minor maintenance performed or for reference to Repair Log for major repairs.

MASS SPECTROMETER CONDITIONS:

Tune File: C110705.U Elect Mult. 1518 volts Sampling Rate 1 6 Scan Range 1 23.0-27.0

Sampling Rate 2 4 Scan Range 2 29.0-175 Sampling Rate 3 3 Scan Range 3 33-275

Tuning Performance (circle one): BFB Autotune Other Interface (circle one): Direct Jet Separator Other Entech

GC PROGRAM:

GC Meth. C111107.M Initial Temp. -50 °C Final Hold 0.0 min Inj. Temp. 100 °C Init.Hold 3.0 min

Carrier Gas: Helium Ramp 1 15.0 °C/min to 0°C Flow/Pressure 1.6 mL/min Final Temp. 240 °C Ramp 2 5°C to 150°C

Ramp 3 35°C to 240°C

Other Program or Special Conditions: NA

GC COLUMN:

Column ID#: MSVOCID014 Capillary Phases/Loadings: Fused Silica i.d. 0.320 mm Length 60 m

Injection Type: Splitless Direct Injection Internal/Surrogate Cylinder ID: CC-328925 (AT01594)

No.	Sample	Can #	Volume	Valve	Data File	DF 62	WOL 11/19/11 Comment
1	WARMUP	HR1876	0.5	13	MC111101	0.0106	VOC-USP-34-73
2	11K0145-CCV1	↓	↓	13	02	↓	↓
3	-BS1	CW1640	↓	1	03	0.01059	VOC-USP-34-61
4	-BSD1	↓	↓	1	04	↓	↓
5	-BLK1	HL0936	↓	5	05	1.0	
6	AUJ0296-01REZ	S454	↓	1	06	2.4754	
7	-02REZ	HL0624	↓	2	07	2.0877	
8	-03REZ	HL0675	↓	3	08	2.0957	
9	-04REZ	103	↓	4	09	2.9560	
10	11K0145-DUP1	↓	↓	↓	10	↓	

No.	Sample	Can #	Volume	Valve	Data File	DF	Comment
11	AUJ0296-05REZ	7203	0.5	5	MC111111	2.9898	
12	11K0145-DLPZ	↓	↓	↓	12	↓	
13	AUJ0296-06REZ	5416		6	13	2.3852	
14	↓ -07REZ	HL0976		7	14	2.1036	
15	↓ -08REZ	226		8	15	2.2706	
16	AUJ0297-01REZ	5421		9	16	2.6528	
17	AUJ0298-01REZ	5426		10	17	2.5582	
18	AUJ0166-01RE3	RA2238	↓	11	18	12.9839	
19	↓ -01RE4	↓	0.1	↓	19	↓	
20	AUK0125-01RE1	RA2361		12	20	2.6288	
21	-04RE1	RA2177		13	21	2.7037	
22	AUJ0282-01RE1	A7079		~~13~~ 14	22	2.6506	
23	AUJ0241-06RE1	RA2328		2	23	12.6088	
24	↓ -07RE1	RA2380		15	24	3.1554	
25	↓ -08RE1	RA2251	↓	1	25	2.7007	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							

11/14/11

Sequence Name: C:\HPCHEM\1\SEQUENCE\CL111111.S
Comment:
Operator: KDK
Data Path: C:\MSVOC3\HPCHEM\3\DATA\C111111\
Pre-Seq Cmd:
Post-Seq Cmd:

KDK 11/14/11

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	MC111101	CA111107	WARMUP
2	Sample	2	MC111102	CA111107	11K0145-CCV1,,,,0.01061;CCAL
3	Sample	3	MC111103	CA111107	11K0145-BS1,,,,0.01059;LCS
4	Sample	4	MC111104	CA111107	11K0145-BSD1,,,,0.01059;LCS
5	Sample	5	MC111105	CA111107	11K0145-BLK1
6	Sample	6	MC111106	CA111107	AUJ0296-01RE2,,,,;C2S
7	Sample	7	MC111107	CA111107	AUJ0296-02RE2,,,,;C2S
8	Sample	8	MC111108	CA111107	AUJ0296-03RE2,,,,;C2S
9	Sample	9	MC111109	CA111107	AUJ0296-04RE2,,,,;C2S
10	Sample	10	MC111110	CA111107	11K0145-DUP1,,,,;C2S
11	Sample	11	MC111111	CA111107	AUJ0296-05RE2,,,,;C2S
12	Sample	12	MC111112	CA111107	11K0145-DUP2,,,,;C2S
13	Sample	13	MC111113	CA111107	AUJ0296-06RE2,,,,;C2S
14	Sample	14	MC111114	CA111107	AUJ0296-07RE2,,,,;C2S
15	Sample	15	MC111115	CA111107	AUJ0296-08RE2,,,,;C2S
16	Sample	16	MC111116	CA111107	AUJ0297-01RE2,,,,;C2S
17	Sample	17	MC111117	CA111107	AUJ0298-01RE2,,,,;C2S
18	Sample	18	MC111118	CA111107	AUJ0166-01RE3,,,,;C2S
19	Sample	19	MC111119	CA111107	AUJ0166-01RE4,,,,;C2S
20	Sample	20	MC111120	CA111107	AUK0125-01RE1
21	Sample	21	MC111121	CA111107	AUK0125-04RE1
22	Sample	22	MC111122	CA111107	AUJ0282-01RE1
23	Sample	23	MC111123	CA111107	AUJ0241-06RE1
24	Sample	24	MC111124	CA111107	AUJ0241-07RE1
25	Sample	25	MC111125	CA111107	AUJ0241-08RE1

----------SEQUENCE TABLE ----------

Sequence Name: C:\Smart\C111111.SEQ
Date: 11-12-2011
Time: 09:52:43
Int. Std Volume: 200 cc

KBL 11/14/21

Sample Name	Inlet #	Auto Samp Pos	Cal Vol.	Std Vol.	Method	Time
WARMUP	1	13	500	0	C:\Smart\C111025A.MPT	12:00
11K0145-CCV1	1	13	500	0	C:\Smart\C111025A.MPT	12:00
11K0145-BS1	1	1	500	0	C:\Smart\C111025A.MPT	12:00
11K0145-BSD1	1	1	500	0	C:\Smart\C111025A.MPT	12:00
11K0145-BLK1	1	5	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0296-01RE2	1	1	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0296-02RE2	1	2	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0296-03RE2	1	3	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0296-04RE2	1	4	500	0	C:\Smart\C111025A.MPT	12:00
11K0145-DUP1	1	4	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0296-05RE2	1	5	500	0	C:\Smart\C111025A.MPT	12:00
11K0145-DUP2	1	5	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0296-06RE2	1	6	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0296-07RE2	1	7	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0296-08RE2	1	8	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0297-01RE2	1	9	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0298-01RE2	1	10	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0166-01RE3	1	11	500	0	C:\Smart\C111025A.MPT	12:00
AUJ0166-01RE4	1	11	100	0	C:\Smart\C111025A.MPT	12:00
AUK0125-01RE1	1	12	100	0	C:\Smart\C111025A.MPT	12:00
AUK0125-04RE1	1	13	100	0	C:\Smart\C111025A.MPT	12:00
AUJ0282-01RE1	1	14	100	0	C:\Smart\C111025A.MPT	12:00
AUJ0241-06RE1	1	2	100	0	C:\Smart\C111025A.MPT	12:00
AUJ0241-07RE1	1	15	100	0	C:\Smart\C111025A.MPT	12:00
AUJ0241-08RE1	1	1	100	0	C:\Smart\C111025A.MPT	12:00

BFB

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111102.D Vial: 2
Acq On : 11 Nov 2011 10:35 am Operator: KDK
Sample : 11K0145-CCV2,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :

Spectrum Information: Average of 29.210 to 29.254 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.2	9308	PASS
75	95	30	66	54.5	22886	PASS
95	95	100	100	100.0	41955	PASS
96	95	5	9	6.8	2849	PASS
173	174	0.00	2	0.7	221	PASS
174	95	50	120	74.8	31371	PASS
175	174	4	9	7.2	2269	PASS
176	174	93	101	96.0	30114	PASS
177	176	5	9	6.6	1991	PASS

MC111102.D CA111107.M Mon Nov 14 14:12:27 2011 KDK

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111102.D Vial: 2
Acq On : 11 Nov 2011 10:35 am Operator: KDK
Sample : 11K0145-CCV1,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 15 10:54 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

DAH 11/15/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.90	81	262832	2.0000 ppbV	0.06
82) Chlorobenzene-d5	26.28	117	193835	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.74	83	105765	1.9601 ppbV	0.05
Spiked Amount 2.000			Recovery	= 98.00%	
65) Fluorobenzene	19.20	96	249572	1.8380 ppbV	0.03
Spiked Amount 2.000			Recovery	= 92.00%	
113) Toluene-d8	23.07	98	206835	1.9956 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.15	90	14667	2.0297 ppbV	0.00
Spiked Amount 2.000			Recovery	= 101.50%	
141) 1,4-Bromofluorobenzene	29.23	95	148699	2.1186 ppbV	0.00
Spiked Amount 2.000			Recovery	= 106.00%	

Target Compounds						Qvalue
3) Ethylene	3.79	26	37487	4.6031 ppbV	S	99
4) Acetylene	3.90	26	72134	5.9171 ppbV	S	97
5) Ethane	3.98	26	26801	4.6539 ppbV	S	97
7) Propylene	5.55	41	98179	4.6248 ppbV	S	97
9) Propane	5.70	43	43855	4.4492 ppbV	S	95
10) Dichlorodifluoromethane	6.19	85	630466	5.3127 ppbV	S	99
11) Chloromethane	7.01	50	120272	4.6428 ppbV	S	97
12) Isobutane	7.66	43	269760	4.7489 ppbV	S	96
13) Halocarbon 114	7.85	85	517926	5.0168 ppbV	S	99
14) Acetaldehyde	7.85	44	52288m	4.8548 ppbV	S	
15) Vinyl chloride	8.08	62	137425	4.8203 ppbV	S	99
16) 1-Butene/Isobutene	8.52	41	168484	4.5753 ppbV	S	96
17) 1,3-Butadiene	8.63	39	111654	4.9682 ppbV	S	98
18) n-Butane	8.79	43	202047	4.4473 ppbV	S	96
19) Methanol	8.64	31	22252m	3.6243 ppbV	S	
20) trans-2-Butene	9.16	41	145755	4.4304 ppbV	S	96
23) Bromomethane	9.32	94	146051	4.9890 ppbV	S	96
24) cis-2-Butene	9.63	41	153108	4.6912 ppbV	S	97
25) Chloroethane	9.90	64	68275	4.7041 ppbV	S	98
26) Vinyl bromide	10.69	106	142756	4.9102 ppbV	S	99
27) 3-Methyl-1-butene	10.71	55	319859	5.1617 ppbV	S	98
28) Ethanol	10.74	45	31491	4.3724 ppbV	S	94
29) Acetonitrile	10.89	41	92536	5.1616 ppbV	S	99
30) Acrolein	11.12	56	39678	6.4745 ppbV	S	98
31) Isopentane	11.35	41	180076	4.7649 ppbV	S	95
32) Trichlorofluoromethane	11.61	101	665717	5.4090 ppbV	S	99
33) 1-Pentene	11.92	42	145423	4.1750 ppbV	S	96
34) Acetone	11.42	43	258866m	6.2382 ppbV	S	
36) Acrylonitrile	12.34	52	67481	5.7872 ppbV	S	97
37) n-Pentane	12.34	43	203403	4.3537 ppbV	S	96
39) Isoprene	12.52	67	133314	4.4414 ppbV	S	97
40) trans-2-Pentene	12.67	55	229352	4.6029 ppbV	S	98
41) 1,1-Dichloroethene	12.76	61	232079	4.8539 ppbV	S	98
42) cis-2-Pentene	12.96	55	233947	4.6822 ppbV	S	98
43) Methylene chloride	13.09	49	190503	5.0235 ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111102.D Vial: 2
Acq On : 11 Nov 2011 10:35 am Operator: KDK
Sample : 11K0145-CCV1,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 15 10:54 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	2-Methyl-2-butene	13.15	55	263745	4.9914	ppbV	S	98
45)	Carbon Disulfide	13.20	76	390293	4.8008	ppbV	S	100
46)	3-Chloropropene	13.25	41	189137	5.9942	ppbV	S	88
47)	Halocarbon 113	13.56	151	316126	5.3127	ppbV	S	99
48)	Neohexane	13.72	43	234211	5.0275	ppbV	S	98
49)	Cyclopentene	14.42	67	261380	4.5009	ppbV	S	97
50)	trans-1,2-Dichloroethene	14.58	61	250438	5.3613	ppbV	S	98
51)	4-Methyl-1-pentene	14.61	43	234346	4.8807	ppbV	S	93
53)	1,1-Dichloroethane	14.86	63	298224	5.0959	ppbV	S	98
54)	Cyclopentane	14.86	42	244862	4.6027	ppbV	S	98
55)	2,3-Dimethylbutane	14.97	43	366174	4.9609	ppbV	S	96
56)	Methyl tert-butyl ether	15.03	73	465605	6.0639	ppbV	S	83
57)	Isohexane	15.17	42	191541	4.9098	ppbV	S	97
58)	Vinyl acetate	15.27	43	352866	6.3896	ppbV	S	98
62)	2-Butanone	15.56	43	273516	6.3979	ppbV	S	99
63)	Chloroprene	15.74	53	316071	5.4882	ppbV	S	98
64)	3-Methylpentane	15.76	57	279869	4.8080	ppbV	S	96
66)	2-Methyl-1-pentene	15.99	56	251311	5.0821	ppbV	S	96
67)	1-Hexene	16.03	41	180843m	5.1312	ppbV	S	
68)	cis-1,2-Dichloroethene	16.16	61	243391	5.2965	ppbV	S	98
69)	Bromochloromethane	16.39	130	163620	5.3776	ppbV	S	97
71)	n-Hexane	16.52	57	251799	5.2810	ppbV	S	98
72)	Chloroform	16.63	83	423473	5.3217	ppbV	S	98
74)	trans-2-Hexene	16.73	55	287803	5.1435	ppbV	S	99
77)	cis-2-Hexene	17.12	55	234205	4.8064	ppbV	S	99
78)	Methylcyclopentane	17.64	56	298126	5.0354	ppbV	S	95
79)	1,2-Dichloroethane	17.66	62	335765	5.6502	ppbV	S	98
80)	2,4-Dimethylpentane	17.82	43	377005	5.1215	ppbV	S	98
81)	1,1,1-Trichloroethane	18.01	97	586927	6.0083	ppbV	S	99
84)	Benzene	18.68	78	380312	5.5350	ppbV	S	98
85)	Carbon tetrachloride	18.91	117	688821	7.0880	ppbV	S	100
86)	1-Butanol	18.85	56	71469	6.4724	ppbV	S	99
87)	Cyclohexane	19.08	56	259997	6.0481	ppbV	S	97
88)	Isoheptane	19.46	43	386630	5.5826	ppbV	S	97
89)	2,3-Dimethylpentane	19.53	56	307893	5.5889	ppbV	S	98
91)	3-Methylhexane	19.83	43	301742	5.5378	ppbV	S	97
92)	1,2-Dichloropropane	19.94	63	123834	5.8182	ppbV	S	91
93)	Bromodichloromethane	20.26	83	366745	5.9502	ppbV	S	99
94)	Trichloroethene	20.32	130	264752	5.9871	ppbV	S	96
95)	1,4-Dioxane	20.36	88	40147	4.7353	ppbV #	S	26
97)	2,2,4-Trimethylpentane	20.40	57	810768	5.6446	ppbV	S	97
98)	2-Chloropentane	20.63	70	191199	6.2417	ppbV	S	98
100)	n-Heptane	20.87	71	151890	5.4932	ppbV	S	97
104)	cis-1,3-Dichloropropene	21.70	75	203122	6.4484	ppbV	S	97
105)	Methylisobutylketone	21.79	43	365888	7.5118	ppbV	S	97
106)	Methylcyclohexane	21.78	83	318870	6.0274	ppbV	S	98
110)	trans-1,3-Dichloropropene	22.56	75	223038	8.3014	ppbV	S	98
111)	1,1,2-Trichloroethane	22.80	97	139624	6.5591	ppbV	S	98
112)	2,3,4-Trimethylpentane	23.02	43	477311	5.6161	ppbV	S	98
114)	Toluene	23.24	91	385965	6.5649	ppbV	S	99
117)	2-Methylheptane	23.67	43	293277	5.9659	ppbV	S	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111102.D Vial: 2
Acq On : 11 Nov 2011 10:35 am Operator: KDK
Sample : 11K0145-CCV1,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 15 10:54 19111 Quant Results File: CA111107.RES

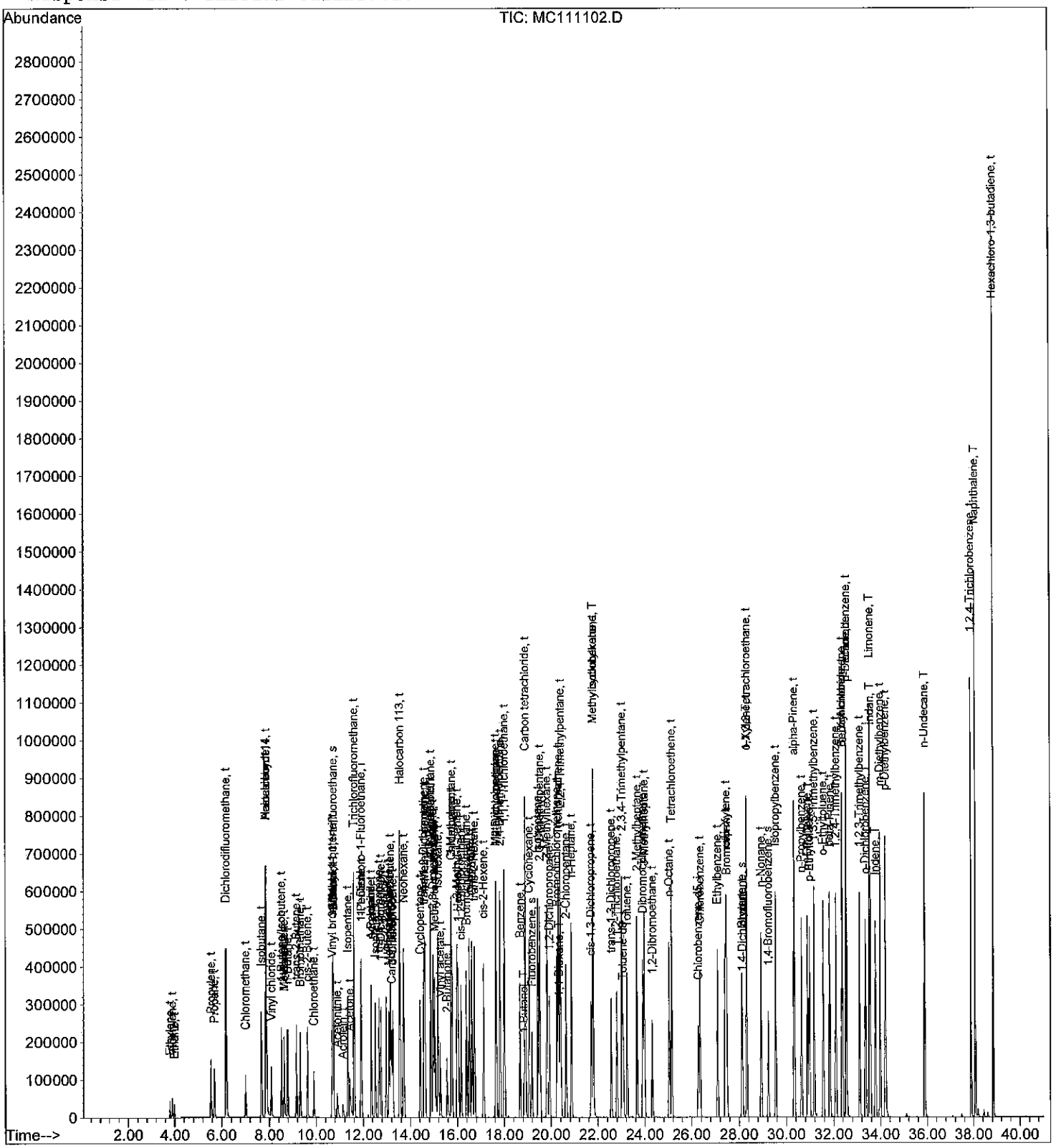
Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
119)	Dibromochloromethane	23.92	129	337975	6.8062	ppbV	S	98
120)	3-Methylheptane	23.99	85	187889	6.0341	ppbV	S	96
122)	1,2-Dibromoethane	24.32	107	254910	6.4016	ppbV	S	99
125)	n-Octane	25.04	43	277724	6.2214	ppbV	S	96
126)	Tetrachloroethene	25.15	164	198454	5.9308	ppbV	S	98
128)	Chlorobenzene	26.36	112	313159	6.4748	ppbV	S	98
129)	Ethylbenzene	27.10	91	480658	7.6487	ppbV	S	98
130)	m/p-Xylene	27.46	91	846375m	15.2623	ppbV	S	
131)	Bromoform	27.49	173	241725	8.2664	ppbV	S	99
134)	Styrene	28.12	104	269036	7.5683	ppbV	S	99
135)	1,1,2,2-Tetrachloroethane	28.33	83	271183	7.8513	ppbV	S	97
136)	o-Xylene	28.33	91	409111	7.9715	ppbV	S	98
140)	n-Nonane	28.94	43	267567	6.8645	ppbV	S	97
142)	Isopropylbenzene	29.55	105	625154	7.7930	ppbV	S	99
144)	alpha-Pinene	30.33	93	509174	7.3887	ppbV	S	97
147)	n-Propylbenzene	30.64	91	659642	7.7823	ppbV	S	98
148)	m-Ethyltoluene	30.90	105	535212	8.0653	ppbV	S	98
149)	p-Ethyltoluene	30.98	105	510262	7.8557	ppbV	S	99
150)	1,3,5-Trimethylbenzene	31.18	105	554430	9.0773	ppbV	S	99
151)	o-Ethyltoluene	31.57	105	578921	8.3895	ppbV	S	99
152)	beta-Pinene	31.85	93	361579	5.2603	ppbV	S	98
153)	1,2,4-Trimethylbenzene	32.10	105	550443	9.6209	ppbV	S	99
156)	Benzyl chloride	32.37	91	416817	10.1870	ppbV	S	99
157)	m-Dichlorobenzene	32.38	146	336786	8.4928	ppbV	S	98
158)	n-Decane	32.54	57	292909	7.8609	ppbV	S	97
159)	p-Dichlorobenzene	32.55	146	327863	8.3949	ppbV	S	97
161)	1,2,3-Trimethylbenzene	33.11	105	572932	9.3018	ppbV	S	98
163)	o-Dichlorobenzene	33.37	146	350531	9.9579	ppbV	S	99
164)	Limonene	33.53	68	247362	9.0143	ppbV	S	97
165)	Indan	33.56	117	530698	9.7010	ppbV	S	99
166)	Indene	33.78	115	472997	12.2988	ppbV	S	99
167)	m-Diethylbenzene	33.98	105	428302	9.3828	ppbV	S	99
168)	p-Diethylbenzene	34.21	119	440899	9.9474	ppbV	S	99
171)	n-Undecane	35.89	57	444679	9.3750	ppbV	S	98
172)	1,2,4-Trichlorobenzene	37.88	180	427533	15.5501	ppbV	S	97
173)	Naphthalene	38.07	128	1437648	17.7616	ppbV	S	100
174)	Hexachloro-1,3-butadiene	38.85	225	444890	9.8909	ppbV	S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111102.D Vial: 2
Acq On : 11 Nov 2011 10:35 am Operator: KDK
Sample : 11K0145-CCV1,,,,0.01062;CCAL Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 15 10:54 19111 Quant Results File: CA111107.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111103.D Vial: 3
Acq On : 11 Nov 2011 11:33 am Operator: KDK
Sample : 11K0145-BS1,,,,0.01059;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 12:37 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

VOK 11/14/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.90	81	306770	2.0000 ppbV	0.06
82) Chlorobenzene-d5	26.28	117	256694	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.75	83	124441	1.9759 ppbV	0.05
Spiked Amount 2.000			Recovery	= 99.00%	
65) Fluorobenzene	19.20	96	328417	2.0722 ppbV	0.03
Spiked Amount 2.000			Recovery	= 103.50%	
113) Toluene-d8	23.08	98	260946	1.9011 ppbV	0.02
Spiked Amount 2.000			Recovery	= 95.00%	
115) 1,4-Dichlorobutane	28.16	90	18044	1.8856 ppbV	0.01
Spiked Amount 2.000			Recovery	= 94.50%	
141) 1,4-Bromofluorobenzene	29.23	95	184653	1.9866 ppbV	0.00
Spiked Amount 2.000			Recovery	= 99.50%	

Target Compounds						Qvalue
3) Ethylene	3.80	26	43187	4.5435 ppbV	S	100
4) Acetylene	3.90	26	43860	3.0825 ppbV	S	98
5) Ethane	3.99	26	30475	4.5340 ppbV	S	99
7) Propylene	5.55	41	126411	5.1019 ppbV	S	98
9) Propane	5.70	43	54082	4.7009 ppbV	S	96
10) Dichlorodifluoromethane	6.19	85	804083	5.8053 ppbV	S	99
11) Chloromethane	7.02	50	165549	5.4753 ppbV	S	99
12) Isobutane	7.66	43	343065	5.1743 ppbV	S	98
13) Halocarbon 114	7.86	85	611979	5.0788 ppbV	S	91
14) Acetaldehyde	7.85	44	173	0.0138 ppbV	#	1
15) Vinyl chloride	8.09	62	186751	5.6122 ppbV	S	100
16) 1-Butene/Isobutene	8.52	41	212052	4.9337 ppbV	S	98
17) 1,3-Butadiene	8.63	39	144310	5.5016 ppbV	S	99
18) n-Butane	8.79	43	256396	4.8353 ppbV	S	98
19) Methanol	8.63	31	32282m	4.5048 ppbV	S	
20) trans-2-Butene	9.16	41	181591	4.7292 ppbV	S	99
23) Bromomethane	9.33	94	199059	5.8258 ppbV	S	99
24) cis-2-Butene	9.63	41	190467	5.0001 ppbV	S	98
25) Chloroethane	9.91	64	88093	5.2002 ppbV	S	100
26) Vinyl bromide	10.69	106	153144	4.5130 ppbV	S	99
27) 3-Methyl-1-butene	10.72	55	387262	5.3543 ppbV	S	98
28) Ethanol	10.75	45	4386	0.5218 ppbV	#	49
29) Acetonitrile	10.90	41	109574	5.2365 ppbV	S	97
30) Acrolein	11.13	56	47345	6.6191 ppbV	S	99
31) Isopentane	11.35	41	224229	5.0834 ppbV	S	99
32) Trichlorofluoromethane	11.61	101	849644	5.9146 ppbV	S	99
33) 1-Pentene	11.92	42	188252	4.6305 ppbV	S	99
34) Acetone	11.43	43	318814m	6.5825 ppbV	S	
36) Acrylonitrile	12.34	52	80540	5.9178 ppbV	S	97
37) n-Pentane	12.35	43	259348	4.7561 ppbV	S	98
39) Isoprene	12.52	67	169346	4.8338 ppbV	S	97
40) trans-2-Pentene	12.67	55	279568	4.8071 ppbV	S	99
41) 1,1-Dichloroethene	12.76	61	273224	4.8959 ppbV	S	98
42) cis-2-Pentene	12.97	55	289961	4.9720 ppbV	S	98
43) Methylene chloride	13.09	49	240464	5.4328 ppbV	S	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111103.D Vial: 3
Acq On : 11 Nov 2011 11:33 am Operator: KDK
Sample : 11K0145-BS1,,,,0.01059;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 12:37 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
44)	2-Methyl-2-butene	13.15	55	322214	5.2245	ppbV		S	96
45)	Carbon Disulfide	13.20	76	373616	3.9375	ppbV		S	99
46)	3-Chloropropene	13.25	41	151681	4.1186	ppbV		S	94
47)	Halocarbon 113	13.56	151	452688	6.5181	ppbV		S	97
50)	trans-1,2-Dichloroethene	14.58	61	303505	5.5668	ppbV		S	95
51)	4-Methyl-1-pentene	14.62	43	304208	5.4283	ppbV		S	96
53)	1,1-Dichloroethane	14.87	63	389435	5.7014	ppbV		S	98
55)	2,3-Dimethylbutane	15.03	43	172645	2.0040	ppbV	#		37
56)	Methyl tert-butyl ether	15.03	73	637245	7.1106	ppbV		S	85
57)	Isohexane	15.28	42	43411	0.9534	ppbV	#		1
58)	Vinyl acetate	15.27	43	402762	6.2485	ppbV		S	99
62)	2-Butanone	15.56	43	320835	6.4299	ppbV		S	100
63)	Chloroprene	15.74	53	386855	5.7552	ppbV		S	98
64)	3-Methylpentane	15.76	57	334	0.0049	ppbV	#		29
66)	2-Methyl-1-pentene	16.04	56	2291	0.0397	ppbV	#		64
67)	1-Hexene	16.03	41	3385	0.0823	ppbV			81
68)	cis-1,2-Dichloroethene	16.16	61	321528	5.9947	ppbV		S	97
69)	Bromochloromethane	16.40	130	3288	0.0926	ppbV			97
71)	n-Hexane	16.52	57	304872	5.4783	ppbV		S	99
72)	Chloroform	16.62	83	560653	6.0365	ppbV		S	99
74)	trans-2-Hexene	16.73	55	371531	5.6889	ppbV		S	98
77)	cis-2-Hexene	17.12	55	302480	5.3184	ppbV		S	99
78)	Methylcyclopentane	17.65	56	1396	0.0202	ppbV	#		81
79)	1,2-Dichloroethane	17.67	62	407575	5.8762	ppbV		S	99
80)	2,4-Dimethylpentane	17.84	43	38	0.0004	ppbV	#		17
81)	1,1,1-Trichloroethane	18.01	97	731397	6.4149	ppbV		S	99
84)	Benzene	18.68	78	522764	5.7451	ppbV		S	99
85)	Carbon tetrachloride	18.91	117	852564	6.6246	ppbV		S	99
86)	1-Butanol	18.85	56	74535	5.0971	ppbV		S	99
87)	Cyclohexane	19.07	56	309879	5.4433	ppbV		S	97
89)	2,3-Dimethylpentane	19.53	56	756	0.0104	ppbV	#		81
91)	3-Methylhexane	19.82	43	45	0.0006	ppbV	#		22
92)	1,2-Dichloropropane	19.94	63	163480	5.8000	ppbV		S	95
93)	Bromodichloromethane	20.26	83	531787	6.5152	ppbV		S	99
94)	Trichloroethene	20.32	130	367617	6.2776	ppbV		S	98
95)	1,4-Dioxane	20.36	88	49609	4.4185	ppbV	#	S	16
97)	2,2,4-Trimethylpentane	20.40	57	999954	5.2570	ppbV		S	99
98)	2-Chloropentane	20.63	70	225562	5.5603	ppbV		S	97
100)	n-Heptane	20.87	71	202659	5.5345	ppbV		S	98
104)	cis-1,3-Dichloropropene	21.70	75	287441	6.8906	ppbV		S	98
105)	Methylisobutylketone	21.79	43	389755	6.0423	ppbV	#	S	71
106)	Methylcyclohexane	21.79	83	1812	0.0259	ppbV	#		1
110)	trans-1,3-Dichloropropene	22.56	75	257462	7.2360	ppbV		S	98
111)	1,1,2-Trichloroethane	22.80	97	194556	6.9015	ppbV		S	99
112)	2,3,4-Trimethylpentane	23.07	43	1849	0.0164	ppbV	#		1
114)	Toluene	23.24	91	532761	6.8427	ppbV		S	99
119)	Dibromochloromethane	23.92	129	490003	7.4514	ppbV		S	98
120)	3-Methylheptane	23.98	85	1056	0.0256	ppbV			86
122)	1,2-Dibromoethane	24.32	107	352453	6.6837	ppbV		S	98
125)	n-Octane	25.04	43	354318	5.9935	ppbV		S	97
126)	Tetrachloroethene	25.15	164	295455	6.6675	ppbV		S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111103.D Vial: 3
Acq On : 11 Nov 2011 11:33 am Operator: KDK
Sample : 11K0145-BS1,,,,0.01059;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 12:37 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

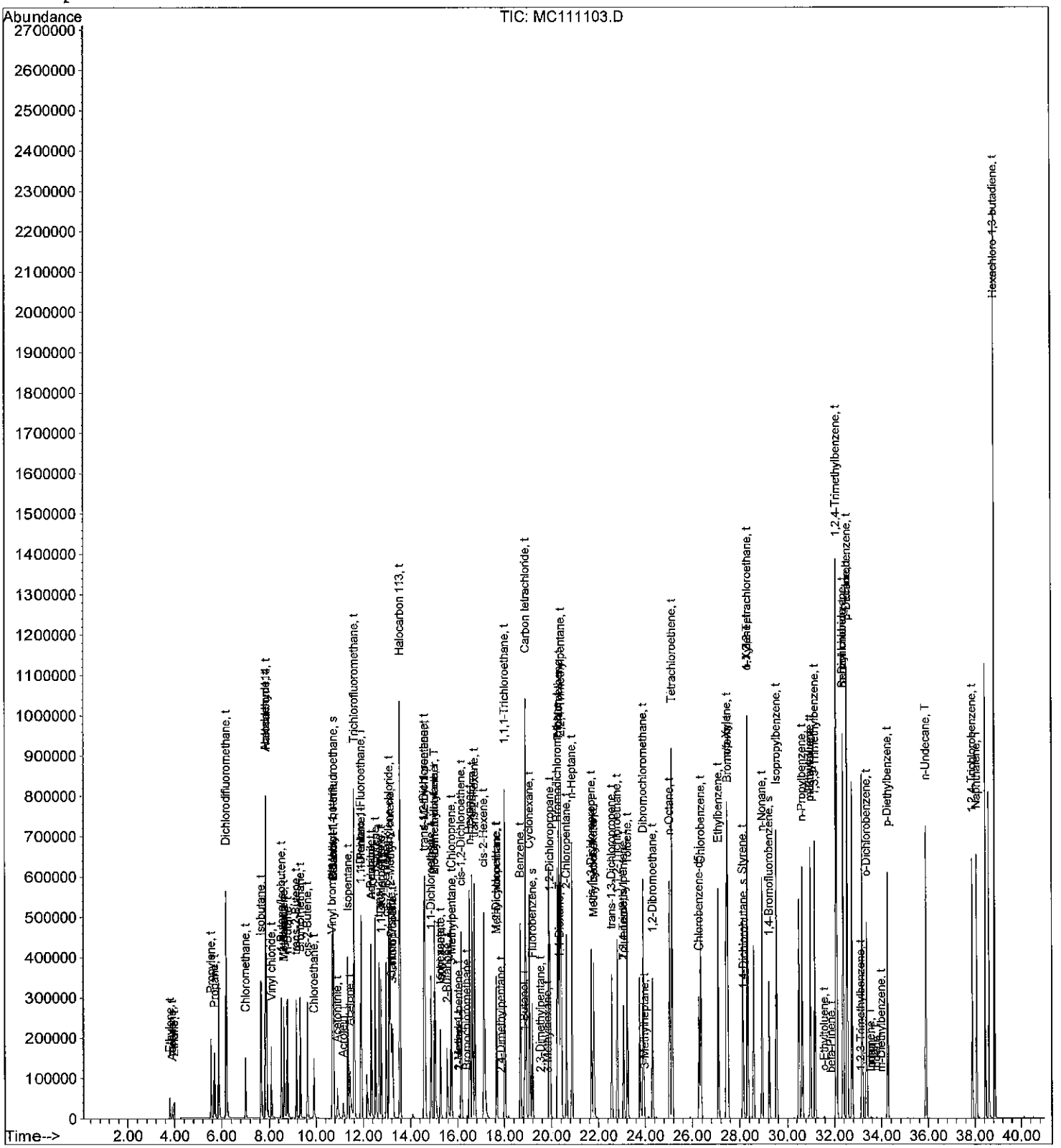
	Compound	R.T.	QIon	Response	Conc	Unit			Qvalue
128)	Chlorobenzene	26.36	112	438625	6.8482	ppbV		S	98
129)	Ethylbenzene	27.09	91	639161	7.6803	ppbV		S	99
130)	m/p-Xylene	27.46	91	1093352m	14.8879	ppbV		S	
131)	Bromoform	27.49	173	348551	9.0008	ppbV		S	97
134)	Styrene	28.13	104	366079	7.7764	ppbV		S	99
135)	1,1,2,2-Tetrachloroethane	28.33	83	315026	6.8872	ppbV		S	98
136)	o-Xylene	28.33	91	514385	7.5684	ppbV		S	99
140)	n-Nonane	28.93	43	331230	6.4169	ppbV		S	98
142)	Isopropylbenzene	29.55	105	766239	7.2127	ppbV		S	99
147)	n-Propylbenzene	30.64	91	795528	7.0872	ppbV		S	99
148)	m-Ethyltoluene	30.98	105	701145	7.9785	ppbV			98
149)	p-Ethyltoluene	30.98	105	701652	8.1570	ppbV		S	99
150)	1,3,5-Trimethylbenzene	31.18	105	635772	7.8601	ppbV		S	99
151)	o-Ethyltoluene	31.57	105	4918	0.0538	ppbV			94
152)	beta-Pinene	31.87	93	74	0.0008	ppbV	#		41
153)	1,2,4-Trimethylbenzene	32.10	105	609427	8.0435	ppbV	#	S	68
156)	Benzyl chloride	32.37	91	475887	8.7826	ppbV		S	100
157)	m-Dichlorobenzene	32.38	146	392335	7.4709	ppbV		S	99
158)	n-Decane	32.54	57	319369	6.4722	ppbV		S	99
159)	p-Dichlorobenzene	32.55	146	379428	7.3362	ppbV		S	99
161)	1,2,3-Trimethylbenzene	33.11	105	3059	0.0375	ppbV			92
163)	o-Dichlorobenzene	33.37	146	342945	7.3567	ppbV		S	98
164)	Limonene	33.53	68	588	0.0162	ppbV			84
165)	Indan	33.55	117	2155	0.0297	ppbV			87
166)	Indene	33.78	115	3441	0.0676	ppbV			91
167)	m-Diethylbenzene	33.98	105	1443	0.0239	ppbV			92
168)	p-Diethylbenzene	34.25	119	9123	0.1554	ppbV	#		1
171)	n-Undecane	35.89	57	382165	6.0840	ppbV		S	98
172)	1,2,4-Trichlorobenzene	37.89	180	243688	6.6929	ppbV		S	98
173)	Naphthalene	38.07	128	657063	6.1299	ppbV		S	100
174)	Hexachloro-1,3-butadiene	38.85	225	410270	6.8876	ppbV		S	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111103.D Vial: 3
Acq On : 11 Nov 2011 11:33 am Operator: KDK
Sample : 11K0145-BS1,,,,0.01059;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 12:37 19111 Quant Results File: CA111107.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111104.D Vial: 4
Acq On : 11 Nov 2011 12:31 pm Operator: KDK
Sample : 11K0145-BSD1,,,,0.01059;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 13:26 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.90	81	322152	2.0000 ppbV	0.06
82) Chlorobenzene-d5	26.28	117	284986	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.75	83	137824	2.0839 ppbV	0.05
Spiked Amount 2.000			Recovery	= 104.00%	
65) Fluorobenzene	19.20	96	352243	2.1164 ppbV	0.03
Spiked Amount 2.000			Recovery	= 106.00%	
113) Toluene-d8	23.08	98	281359	1.8463 ppbV	0.02
Spiked Amount 2.000			Recovery	= 92.50%	
115) 1,4-Dichlorobutane	28.16	90	19748	1.8588 ppbV	0.01
Spiked Amount 2.000			Recovery	= 93.00%	
141) 1,4-Bromofluorobenzene	29.23	95	202462	1.9619 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	

Target Compounds						Qvalue
3) Ethylene	3.79	26	45534	4.5617 ppbV	S	99
4) Acetylene	3.90	26	46787	3.1312 ppbV	S	98
5) Ethane	3.99	26	31949	4.5263 ppbV	S	99
7) Propylene	5.55	41	133740	5.1399 ppbV	S	98
9) Propane	5.70	43	57241	4.7379 ppbV	S	98
10) Dichlorodifluoromethane	6.19	85	833617	5.7311 ppbV	S	100
11) Chloromethane	7.02	50	174818	5.5058 ppbV	S	99
12) Isobutane	7.66	43	362539	5.2069 ppbV	S	99
13) Halocarbon 114	7.86	85	640650	5.0629 ppbV	S	91
14) Acetaldehyde	7.85	44	233	0.0176 ppbV #		1
15) Vinyl chloride	8.09	62	198593	5.6831 ppbV	S	99
16) 1-Butene/Isobutene	8.52	41	226173	5.0109 ppbV	S	99
17) 1,3-Butadiene	8.63	39	153480	5.5718 ppbV	S	99
18) n-Butane	8.79	43	273021	4.9029 ppbV	S	99
19) Methanol	8.63	31	31359m	4.1671 ppbV	S	
20) trans-2-Butene	9.16	41	193381	4.7957 ppbV	S	99
23) Bromomethane	9.33	94	211043	5.8816 ppbV	S	99
24) cis-2-Butene	9.63	41	201272	5.0314 ppbV	S	98
25) Chloroethane	9.91	64	93200	5.2389 ppbV	S	97
26) Vinyl bromide	10.69	106	172666	4.8454 ppbV	S	99
27) 3-Methyl-1-butene	10.72	55	418123	5.5050 ppbV	S	99
28) Ethanol	10.75	45	4703	0.5328 ppbV #		56
29) Acetonitrile	10.90	41	118497	5.3926 ppbV	S	99
30) Acrolein	11.13	56	50590	6.7350 ppbV	S	97
31) Isopentane	11.35	41	231883	5.0059 ppbV	S	97
32) Trichlorofluoromethane	11.61	101	873402	5.7897 ppbV	S	99
33) 1-Pentene	11.92	42	191196	4.4784 ppbV	S	97
34) Acetone	11.43	43	329515m	6.4786 ppbV	S	
36) Acrylonitrile	12.34	52	84209	5.8920 ppbV	S	99
37) n-Pentane	12.35	43	264286	4.6152 ppbV	S	98
39) Isoprene	12.52	67	174738	4.7495 ppbV	S	100
40) trans-2-Pentene	12.67	55	286668	4.6938 ppbV	S	98
41) 1,1-Dichloroethene	12.76	61	275378	4.6989 ppbV	S	98
42) cis-2-Pentene	12.97	55	296490	4.8412 ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111104.D Vial: 4
Acq On : 11 Nov 2011 12:31 pm Operator: KDK
Sample : 11K0145-BSD1,,,,0.01059;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 13:26 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	Methylene chloride	13.09	49	248148	5.3387	ppbV	S	97
44)	2-Methyl-2-butene	13.15	55	331841	5.1237	ppbV	S	96
45)	Carbon Disulfide	13.20	76	391649	3.9304	ppbV	S	100
46)	3-Chloropropene	13.25	41	156739	4.0527	ppbV	S	98
47)	Halocarbon 113	13.56	151	471734	6.4680	ppbV	S	95
50)	trans-1,2-Dichloroethene	14.58	61	311594	5.4423	ppbV	S	96
51)	4-Methyl-1-pentene	14.62	43	317270	5.3910	ppbV	S	98
53)	1,1-Dichloroethane	14.87	63	404388	5.6376	ppbV	S	99
55)	2,3-Dimethylbutane	15.03	43	177829	1.9656	ppbV	#	37
56)	Methyl tert-butyl ether	15.03	73	662674	7.0413	ppbV	S	85
57)	Isohexane	15.27	42	44817	0.9373	ppbV	#	1
58)	Vinyl acetate	15.27	43	414888	6.1293	ppbV	S	99
62)	2-Butanone	15.56	43	329731	6.2926	ppbV	S	100
63)	Chloroprene	15.74	53	399407	5.6582	ppbV	S	98
64)	3-Methylpentane	15.77	57	508	0.0071	ppbV	#	42
66)	2-Methyl-1-pentene	16.03	56	2516	0.0415	ppbV		76
67)	1-Hexene	16.04	41	3388	0.0784	ppbV		98
68)	cis-1,2-Dichloroethene	16.16	61	332726	5.9072	ppbV	S	98
69)	Bromochloromethane	16.39	130	3529	0.0946	ppbV		93
71)	n-Hexane	16.52	57	320804	5.4894	ppbV	S	99
72)	Chloroform	16.63	83	584572	5.9935	ppbV	S	99
74)	trans-2-Hexene	16.73	55	389226	5.6752	ppbV	S	99
77)	cis-2-Hexene	17.12	55	317102	5.3093	ppbV	S	98
78)	Methylcyclopentane	17.65	56	1452	0.0200	ppbV		82
79)	1,2-Dichloroethane	17.66	62	424181	5.8236	ppbV	S	99
80)	2,4-Dimethylpentane	17.81	43	38	0.0004	ppbV	#	18
81)	1,1,1-Trichloroethane	18.01	97	751259	6.2745	ppbV	S	99
84)	Benzene	18.68	78	553354	5.4776	ppbV	S	100
85)	Carbon tetrachloride	18.91	117	875533	6.1277	ppbV	S	99
86)	1-Butanol	18.85	56	67597	4.1637	ppbV	S	98
87)	Cyclohexane	19.08	56	324757	5.1383	ppbV	S	98
88)	Isoheptane	19.44	43	79	0.0008	ppbV	#	38
89)	2,3-Dimethylpentane	19.54	56	869	0.0107	ppbV	#	67
91)	3-Methylhexane	19.81	43	133	0.0017	ppbV	#	22
92)	1,2-Dichloropropane	19.94	63	172986	5.5280	ppbV	S	97
93)	Bromodichloromethane	20.26	83	556434	6.1404	ppbV	S	98
94)	Trichloroethene	20.32	130	387259	5.9565	ppbV	S	97
95)	1,4-Dioxane	20.36	88	46849	3.7584	ppbV	# S	52
97)	2,2,4-Trimethylpentane	20.40	57	1041380	4.9312	ppbV	S	99
98)	2-Chloropentane	20.63	70	239566	5.3192	ppbV	S	98
100)	n-Heptane	20.87	71	214013	5.2644	ppbV	S	99
104)	cis-1,3-Dichloropropene	21.70	75	303832	6.5605	ppbV	S	99
105)	Methylisobutylketone	21.79	43	405083	5.6565	ppbV	# S	71
106)	Methylcyclohexane	21.79	83	1883	0.0242	ppbV	#	1
110)	trans-1,3-Dichloropropene	22.56	75	267933	6.7827	ppbV	S	98
111)	1,1,2-Trichloroethane	22.81	97	202989	6.4858	ppbV	S	98
112)	2,3,4-Trimethylpentane	23.07	43	1979	0.0158	ppbV	#	1
114)	Toluene	23.24	91	559628	6.4743	ppbV	S	99
119)	Dibromochloromethane	23.92	129	511984	7.0127	ppbV	S	99
120)	3-Methylheptane	23.99	85	1272	0.0278	ppbV	#	82

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111104.D Vial: 4
Acq On : 11 Nov 2011 12:31 pm Operator: KDK
Sample : 11K0145-BSD1,,,,0.01059;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 13:26 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

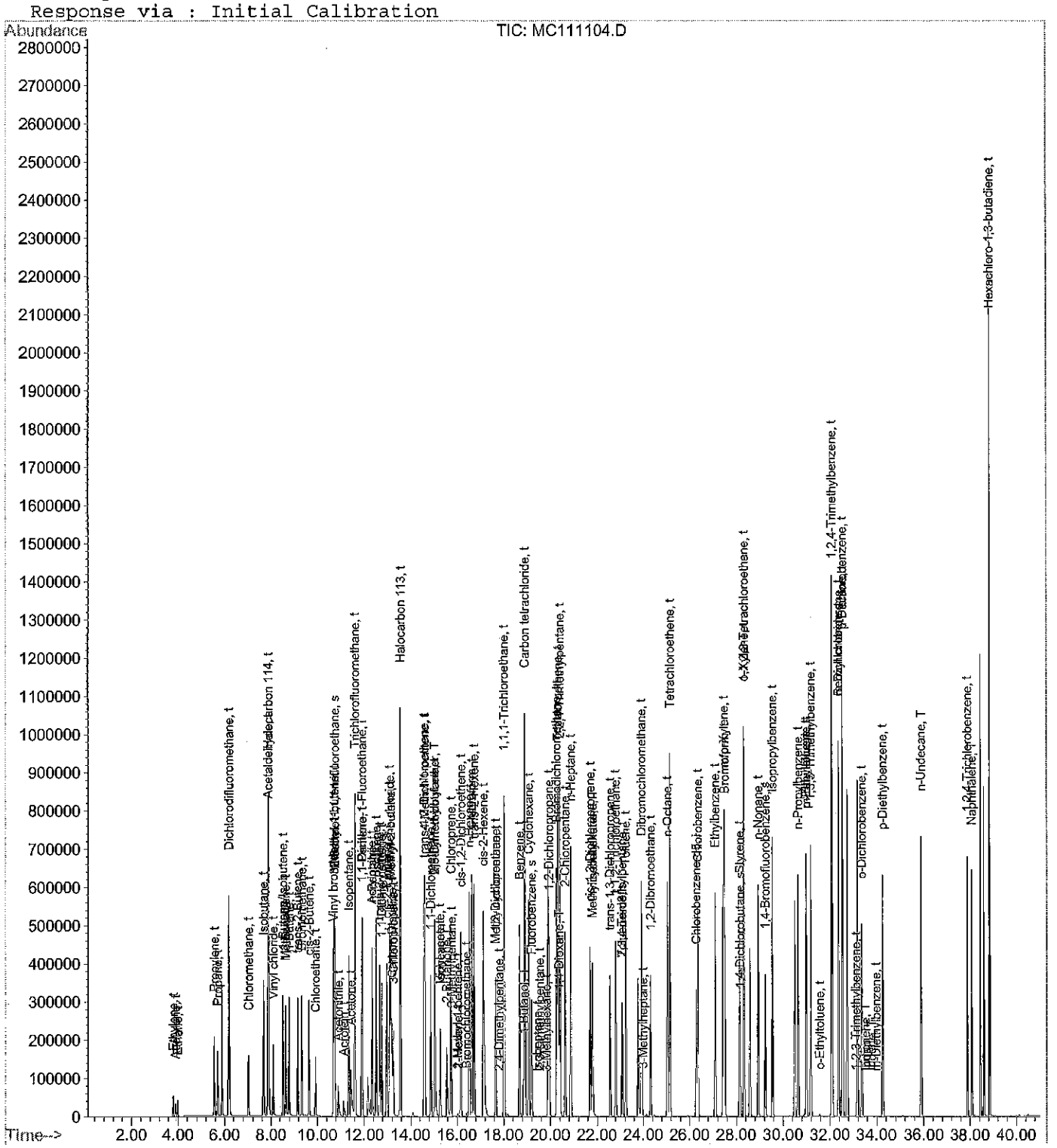
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
122)	1,2-Dibromoethane	24.32	107	373196	6.3745	ppbV	S	98
125)	n-Octane	25.04	43	373139	5.6853	ppbV	S	98
126)	Tetrachloroethene	25.15	164	311803	6.3379	ppbV	S	98
128)	Chlorobenzene	26.36	112	465213	6.5422	ppbV	S	97
129)	Ethylbenzene	27.10	91	661364	7.1582	ppbV	S	99
130)	m/p-Xylene	27.46	91	1128923m	13.8462	ppbV	S	
131)	Bromoform	27.49	173	362163	8.4238	ppbV	S	97
134)	Styrene	28.13	104	382131	7.3115	ppbV	S	98
135)	1,1,2,2-Tetrachloroethane	28.33	83	324497	6.3899	ppbV	S	99
136)	o-Xylene	28.33	91	533339	7.0682	ppbV	S	99
140)	n-Nonane	28.94	43	340817	5.9471	ppbV	S	98
142)	Isopropylbenzene	29.55	105	787982	6.6810	ppbV	S	99
147)	n-Propylbenzene	30.65	91	819519	6.5761	ppbV	S	99
148)	m-Ethyltoluene	30.98	105	726098	7.4422	ppbV		98
149)	p-Ethyltoluene	30.98	105	726098	7.6032	ppbV	S	99
150)	1,3,5-Trimethylbenzene	31.18	105	655855	7.3034	ppbV	S	99
151)	o-Ethyltoluene	31.58	105	4279	0.0422	ppbV		87
153)	1,2,4-Trimethylbenzene	32.10	105	622712	7.4029	ppbV #	S	69
156)	Benzyl chloride	32.37	91	489459	8.1363	ppbV	S	100
157)	m-Dichlorobenzene	32.38	146	405145	6.9489	ppbV	S	98
158)	n-Decane	32.54	57	327753	5.9827	ppbV	S	99
159)	p-Dichlorobenzene	32.55	146	394477	6.8700	ppbV	S	99
161)	1,2,3-Trimethylbenzene	33.11	105	1838	0.0203	ppbV		74
163)	o-Dichlorobenzene	33.37	146	353198	6.8245	ppbV	S	96
164)	Limonene	33.53	68	213	0.0053	ppbV #		83
165)	Indan	33.55	117	510	0.0063	ppbV		91
166)	Indene	33.78	115	982	0.0174	ppbV		84
167)	m-Diethylbenzene	33.97	105	487	0.0073	ppbV #		50
168)	p-Diethylbenzene	34.26	119	7885	0.1210	ppbV #		1
171)	n-Undecane	35.89	57	389860	5.5904	ppbV	S	98
172)	1,2,4-Trichlorobenzene	37.88	180	252059	6.2355	ppbV	S	96
173)	Naphthalene	38.07	128	661945	5.5624	ppbV	S	100
174)	Hexachloro-1,3-butadiene	38.85	225	433977	6.5623	ppbV	S	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111104.D Vial: 4
Acq On : 11 Nov 2011 12:31 pm Operator: KDK
Sample : 11K0145-BSD1,,,,0.01059;LCS Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 13:26 19111 Quant Results File: CA111107.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111105.D Vial: 5
Acq On : 11 Nov 2011 1:30 pm Operator: KDK
Sample : 11K0145-BLK1 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 14:50 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

KDK 11/14/11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.90	81	319949	2.0000 ppbV	0.06
82) Chlorobenzene-d5	26.28	117	240997	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.75	83	132382	2.0154 ppbV	0.05
Spiked Amount 2.000			Recovery	= 101.00%	
65) Fluorobenzene	19.20	96	324998	1.9662 ppbV	0.03
Spiked Amount 2.000			Recovery	= 98.50%	
113) Toluene-d8	23.07	98	257591	1.9989 ppbV	0.01
Spiked Amount 2.000			Recovery	= 100.00%	
115) 1,4-Dichlorobutane	28.16	90	13802	1.5362 ppbV	0.00
Spiked Amount 2.000			Recovery	= 77.00%	
141) 1,4-Bromofluorobenzene	29.23	95	154743	1.7732 ppbV	0.00
Spiked Amount 2.000			Recovery	= 88.50%	

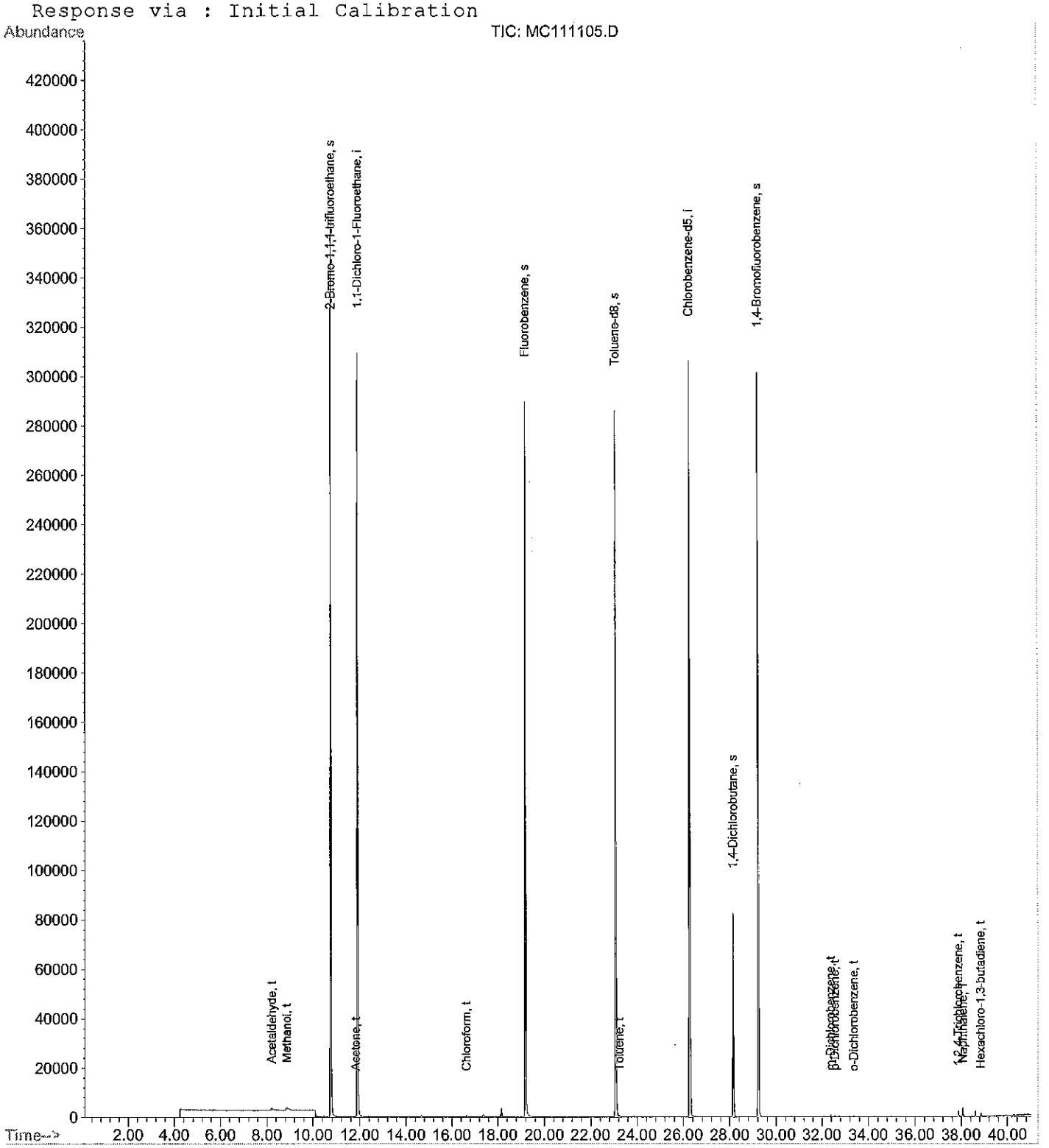
Target Compounds					Qvalue
14) Acetaldehyde	8.22	44	1375m	0.1049 ppbV	
19) Methanol	8.85	31	2892m	0.3869 ppbV	
34) Acetone	11.82	43	1249m	0.0247 ppbV	
72) Chloroform	16.64	83	418	0.0043 ppbV	66
114) Toluene	23.24	91	501	0.0069 ppbV	91
157) m-Dichlorobenzene	32.38	146	242	0.0049 ppbV #	53
159) p-Dichlorobenzene	32.55	146	377	0.0078 ppbV #	62
163) o-Dichlorobenzene	33.37	146	262	0.0060 ppbV #	60
172) 1,2,4-Trichlorobenzene	37.88	180	993	0.0290 ppbV	93
173) Naphthalene	38.07	128	4615	0.0459 ppbV	96
174) Hexachloro-1,3-butadiene	38.85	225	271	0.0048 ppbV	89

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111105.D Vial: 5
Acq On : 11 Nov 2011 1:30 pm Operator: KDK
Sample : 11K0145-BLK1 Inst : VMSC
Misc : 1,1,1000,500, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 11 14:50 19111 Quant Results File: CA111107.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111123.D Vial: 23
Acq On : 12 Nov 2011 7:06 am Operator: KDK
Sample : AUJ0241-06RE1 Inst : VMSC
Misc : 12.6088,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 14 11:12 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

Reason for cis-1,2-DCE

KDK 11/14/11

DEK 11-15-11

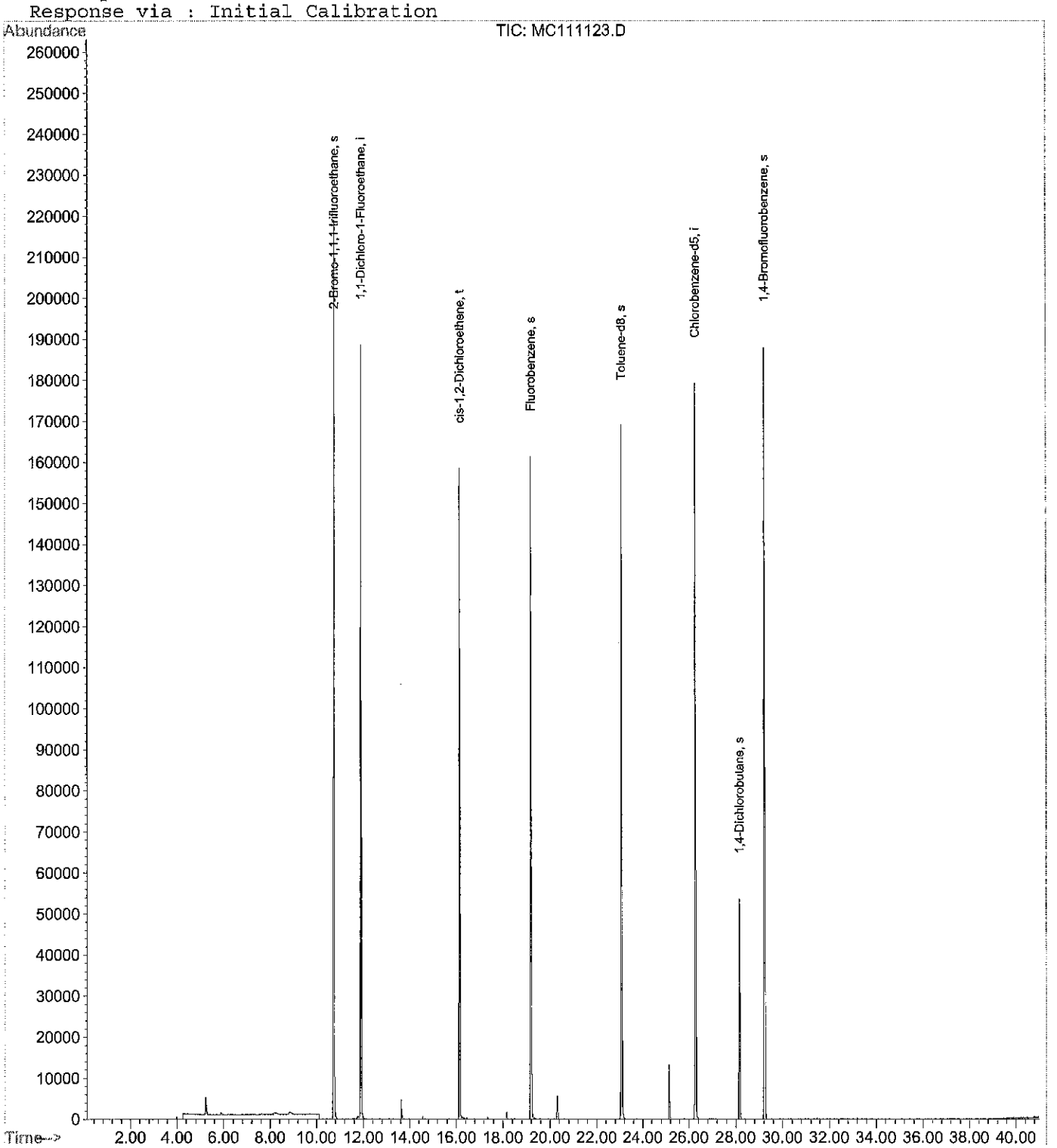
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.88	81	188986	2.0000 ppbV	0.04
82) Chlorobenzene-d5	26.28	117	125556	2.0000 ppbV	0.01
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.73	83	74661	1.9243 ppbV	0.03
Spiked Amount 2.000			Recovery	= 96.00%	
65) Fluorobenzene	19.19	96	155295	1.5906 ppbV	0.02
Spiked Amount 2.000			Recovery	= 79.50%	
113) Toluene-d8	23.07	98	137000	2.0406 ppbV	0.01
Spiked Amount 2.000			Recovery	= 102.00%	
115) 1,4-Dichlorobutane	28.16	90	7664	1.6374 ppbV	0.00
Spiked Amount 2.000			Recovery	= 82.00%	
141) 1,4-Bromofluorobenzene	29.23	95	89128	1.9604 ppbV	0.00
Spiked Amount 2.000			Recovery	= 98.00%	
Target Compounds					Qvalue
68) cis-1,2-Dichloroethene	16.15	61	105025	3.1785 ppbV	93

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111123.D Vial: 23
Acq On : 12 Nov 2011 7:06 am Operator: KDK
Sample : AUJ0241-06RE1 Inst : VMSC
Misc : 12.6088,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 14 11:12 19111 Quant Results File: CA111107.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111124.D Vial: 24
Acq On : 12 Nov 2011 8:04 am Operator: KDK
Sample : AUJ0241-07RE1 Inst : VMSC
Misc : 3.1554,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 14 11:15 19111 Quant Results File: CA111107.RES

KDK 12/19/11

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

Rerun for Acetone

AM 11/15/11

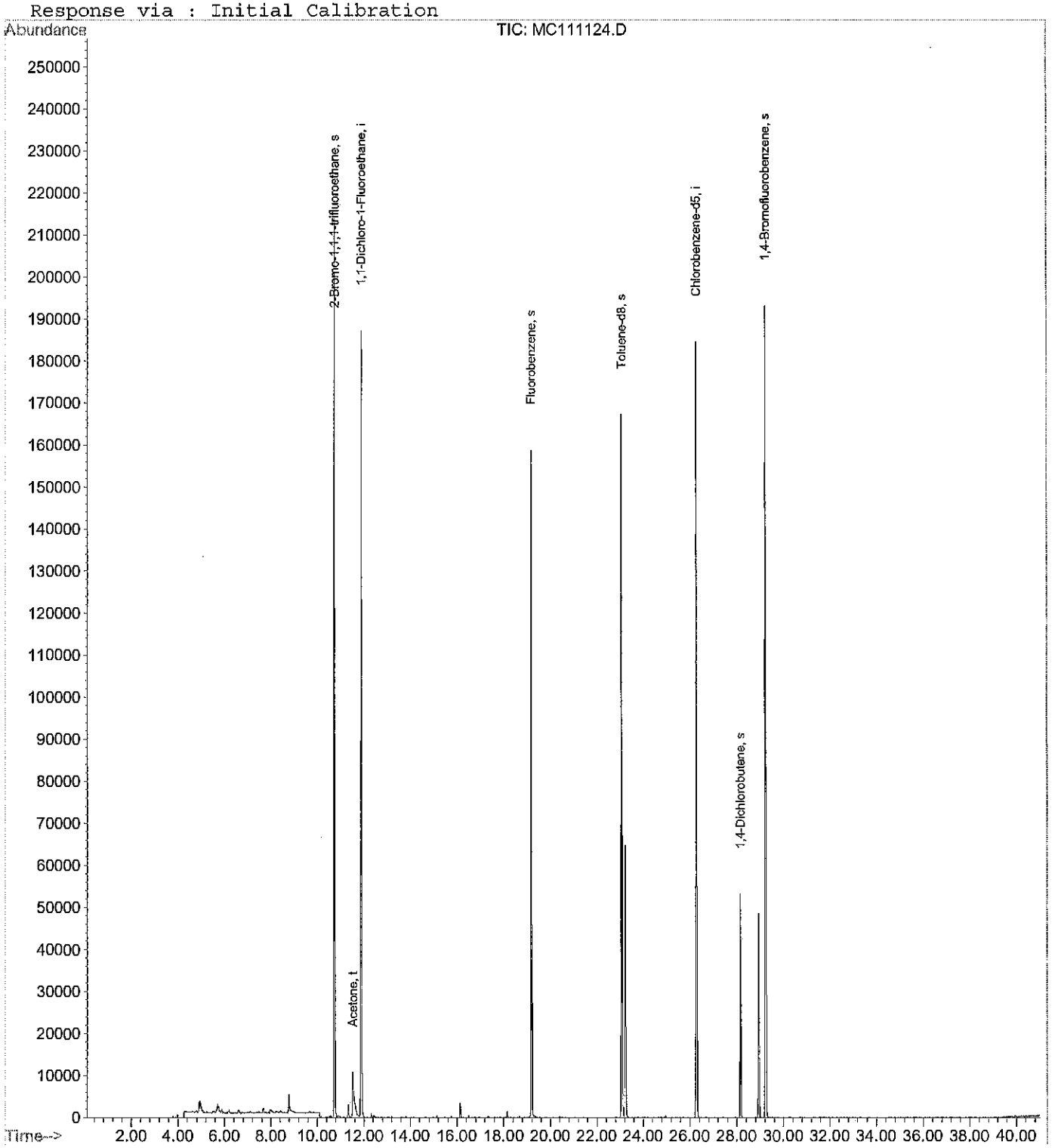
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.87	81	184591	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.28	117	126855	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.72	83	72715	1.9188 ppbV	0.03
Spiked Amount 2.000			Recovery	= 96.00%	
65) Fluorobenzene	19.19	96	152587	1.6000 ppbV	0.02
Spiked Amount 2.000			Recovery	= 80.00%	
113) Toluene-d8	23.07	98	138078	2.0356 ppbV	0.01
Spiked Amount 2.000			Recovery	= 102.00%	
115) 1,4-Dichlorobutane	28.16	90	7792	1.6477 ppbV	0.00
Spiked Amount 2.000			Recovery	= 82.50%	
141) 1,4-Bromofluorobenzene	29.23	95	94371	2.0545 ppbV	0.00
Spiked Amount 2.000			Recovery	= 102.50%	
Target Compounds					Qvalue
34) Acetone	11.50	43	40187m	1.3789 ppbV	

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111124.D Vial: 24
Acq On : 12 Nov 2011 8:04 am Operator: KDK
Sample : AUJ0241-07RE1 Inst : VMSC
Misc : 3.1554,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 14 11:15 19111 Quant Results File: CA111107.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111125.D Vial: 25
Acq On : 12 Nov 2011 9:01 am Operator: KDK
Sample : AUJ0241-08RE1 Inst : VMSC
Misc : 2.7007,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 14 11:16 19111 Quant Results File: CA111107.RES

Quant Method : C:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration
DataAcq Meth : CA111107

Below for Acetone

KDK 11/14/11

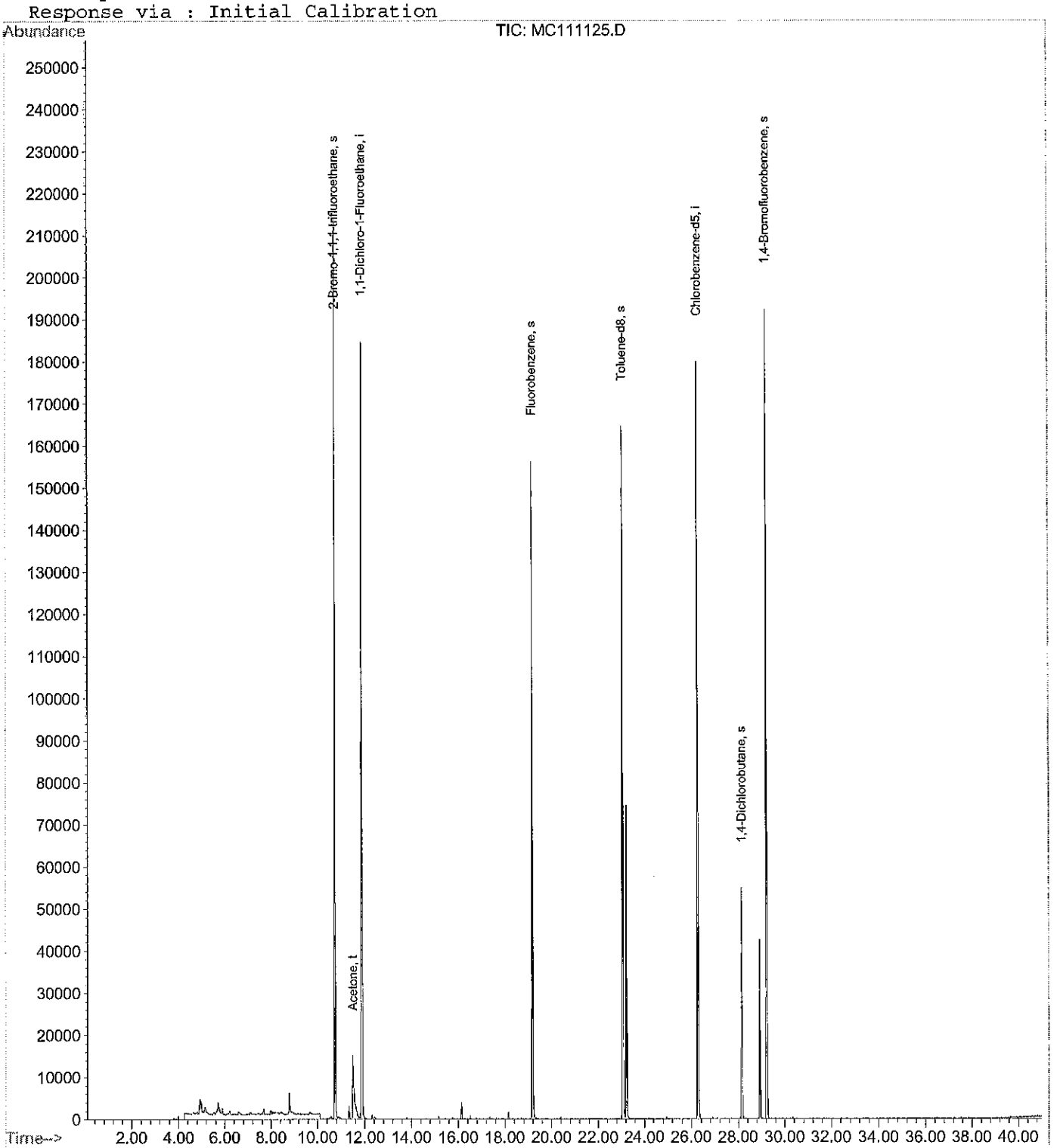
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,1-Dichloro-1-Fluoroethan	11.87	81	184253	2.0000 ppbV	0.03
82) Chlorobenzene-d5	26.28	117	124812	2.0000 ppbV	0.00
System Monitoring Compounds					
2) 2-Bromo-1,1,1-trifluoroeth	10.73	83	71373	1.8868 ppbV	0.03
Spiked Amount 2.000			Recovery	= 94.50%	
65) Fluorobenzene	19.19	96	153117	1.6085 ppbV	0.02
Spiked Amount 2.000			Recovery	= 80.50%	
113) Toluene-d8	23.07	98	134143	2.0100 ppbV	0.00
Spiked Amount 2.000			Recovery	= 100.50%	
115) 1,4-Dichlorobutane	28.16	90	7928	1.7039 ppbV	0.00
Spiked Amount 2.000			Recovery	= 85.00%	
141) 1,4-Bromofluorobenzene	29.23	95	93926	2.0782 ppbV	0.00
Spiked Amount 2.000			Recovery	= 104.00%	
Target Compounds					Qvalue
34) Acetone	11.48	43	51679m	1.7765 ppbV	

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : O:\MSVOC3\HPCHEM\3\DATA\C111111\MC111125.D Vial: 25
Acq On : 12 Nov 2011 9:01 am Operator: KDK
Sample : AUJ0241-08RE1 Inst : VMSC
Misc : 2.7007,1,1000,100, Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Nov 14 11:16 19111 Quant Results File: CA111107.RES

Method : O:\MSVOC3\HPCHEM\3\METHODS\CA111107.M (RTE Integrator)
Title :
Last Update : Tue Nov 08 13:54:43 2011
Response via : Initial Calibration



December 02, 2011 Service Request No: E1101017

Wil King
Terracon Environmental
13910 W. 96th Terrace
Lenexa, KS 66215

Laboratory Results for: Bannister Complex/02107144

Dear Wil:

Enclosed are the results of the sample(s) submitted to our laboratory on October 19, 2011. For your reference, these analyses have been assigned our service request number **E1101017**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the final complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the TNI 2009 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2962. You may also contact me via email at MCosson@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Michael Cosson
Project Manager

Page 1 of _____

Columbia Analytical Services INC

Certificate of Analysis

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
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COLUMBIA ANALYTICAL SERVICES, INC

Client:	Terracon Environmental	**Service Request No.:**	E1101017
Project:	Bannister Complex	**Date Received:**	10/19/11
Sample Matrix:	Air (PUF)		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eleven air (PUF) samples were received for analysis at Columbia Analytical Services on 10/19/11.

The following discrepancies were noted upon initial sample inspection: no custody seals on cooler. The exceptions are also noted on the cooler receipt and preservation form included in this data package.

The samples were received at 4°C in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

B flags – Method Blanks

The Method Blank EQ1100494-01 contained low levels of various analytes at or below the Method Reporting Limit (MRL).

The associated compounds in the samples are flagged with 'B' flags.

MS/MSD

EQ1100494: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of an MS/MSD for this extraction batch. The batch quality control criteria were met.

Y flags – Labeled Standards

Samples that had recoveries of labeled standards outside the acceptance limits are flagged with 'Y' flags on the Labeled Compound summary pages. In all cases, the signal-to-noise ratios are greater than 10:1, making these data acceptable.

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Mass Spectrometer Resolution

Mass 254.9856 of U110223 Initial Calibration has a resolution below 8000.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

Several samples had elevated detection limits that exceeded the MRL. In these cases, the MRL is raised to equal the EDL.

The TEQ Summary results for each sample have been calculated by CAS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'

Use of Columbia Analytical Services, Inc. (CAS) Name. Client shall not use CAS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to CAS any test result, tolerance or specification derived from CAS's data ("Attribution") without CAS's prior written consent, which may be withheld by CAS for any reason in its sole discretion. To request CAS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If CAS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use CAS's name or trademark in any Materials or Attribution shall be deemed denied. CAS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of CAS's name or trademark may cause CAS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: Terracon Environmental
Project: Bannister Complex/02107144

Service Request: E1101017

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E1101017-001	B4CS-SS1-PCBs	10/15/11	19:50
E1101017-002	B4CS-SS2-PCBs	10/15/11	19:50
E1101017-003	B4-SSBlank-PCBs	10/15/11	00:00
E1101017-004	B4CS-CS1-PCBs	10/16/11	20:10
E1101017-005	B4CS-CS2-PCBs	10/16/11	20:08
E1101017-006	B4-IA1-PCBs	10/16/11	20:43
E1101017-007	B4-IA2-PCBs	10/16/11	20:45
E1101017-008	B4-OA1-PCBs	10/16/11	20:34
E1101017-009	B4-OA2-PCBs	10/16/11	20:28
E1101017-010	B4-Blank-PCBs	10/16/11	00:00
E1101017-011	B4-Dup-PCBs	10/16/11	00:00

Superset Summary

Service Request: E1101017 **SuperSet Reference:** 11-0000196332 rev 00

CARB 428/CA PCB

Calibrations: 02/23/11

Data Files:

Raw Data	*Begin CCAL*	*Method Blank*	*Lab ID*
U142054	U142053	U142056	EQ1100494-02
U142055	U142053	U142056	EQ1100494-03
U142056	U142053	U142056	EQ1100494-01
U142057	U142053	U142056	E1101017-001
U142058	U142053	U142056	E1101017-002
U142059	U142053	U142056	E1101017-003
U142067	U142063	U142056	E1101017-007
U142068	U142063	U142056	E1101017-008
U142069	U142063	U142056	E1101017-009
U142070	U142063	U142056	E1101017-010
U142091	U142083	U142056	E1101017-004
U142095	U142093	U142056	E1101017-005
U142152	U142149	U142056	E1101017-006
U142193	U142188	U142056	E1101017-011

Laboratory Certifications
2011-2012

STATE/PROGRAM	AGENCY	CERT#	EXP DATE	CERTIFIED?
DoD ELAP	A2LA	2897.01	11/30/11	Yes
ISO 17025	A2LA	2897.01	11/30/11	Yes
ARIZONA	AZ-DHS	AZ0725	05/27/12	Yes
ARKANSAS	ADEQ	10-035-0	06/16/11	Yes
CALIFORNIA	CA-ELAP	2452	02/28/13	Yes
FLORIDA/NELAP	FL-DOHS	E87611	06/30/12	Yes
HAWAII	HI-DOH	N/A	06/30/12	Yes
ILLINOIS/NELAP	IL-EPA	002611	10/26/2012	Yes
LOUISIANA/NELAP	LELAP	03048	06/30/12	Yes
LOUISIANA/NELAP	LDHH	LA100032	12/31/11	Yes
MAINE	ME-DOHS	2010041	06/05/12	Yes
MICHIGAN	MIDEQ	9971	06/30/12	Yes
MINNESOTA	MDH	048-999-427	12/31/11	Yes
NEVADA	NDEP	TX014112010A	07/31/12	Yes (Extension)
NEW JERSEY	NJDEP	TX008	06/30/12	Yes
NEW MEXICO	NMED-DWB	N/A	06/30/12	Yes
NEW YORK/NELAP	NY-DOH	11707	04/1/12	Yes
OKLAHOMA	OKDEQ	2010-022	08/31/12	Yes
OREGON/NELAP	ORELAP	TX200002-006	03/24/12	Yes
PENNSYLVANIA/NELAP	PLAP	002	06/30/12	Yes
TENNESSEE	TNDEC	04016	06/30/12	Yes
TEXAS/NELAP	TCEQ	T104704216-10-1	06/30/12	Yes
UTAH/NELAP	UTELCP	COLU2	06/30/12	Yes
SOIL IMPORT PERMIT	USDA	P330-09-00067	03/27/12	Yes
WASHINGTON/NELAP	WA-Ecology	C819-10	11/14/12	Yes
WEST VIRGINIA	WVDEP	347	06/30/12	Yes

Abbreviations, Acronyms & Definitions

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent Recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
RRT	Relative Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-Noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

Data Qualifier Flags – Dioxin/Furans

- **B** Indicates the associated analyte is found in the method blank, as well as in the sample.
- **C** Confirmation of the TCDF compound: When 2378-TCDF is detected on the DB-5 column, confirmation analyses are performed on a second column (DB-225). The results from both the DB-5 column and the DB-225 column are included in this data package. The results from the DB-225 analyses should be used to evaluate the 2378-TCDF in the samples. The confirmed result should be used in determining the TEQ value for TCDF.
- **E** Indicates an estimated value – used when the analyte concentration exceeds the upper end of the linear calibration range.
- **J** Indicates an estimated value – used when the analyte concentration is below the method reporting limit (MRL) and above the estimated detection limit (EDL).
- **K** EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.
- **U** Indicates the compound was analyzed and not detected.
- **Y** Samples that had recoveries of labeled standards outside the acceptance limits are flagged with 'Y'. In all cases, the signal-to-noise ratios are greater than 10:1, making these data acceptable.
- **ND** Indicates concentration is reported as 'Not Detected.'
- **S** Peak is saturated; data not reportable.
- **P** Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
- **Q** Lock-mass interference by chlorodiphenyl ether compounds.

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E1101017 DB-5 DB-225 SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 11/11/11	Analyst: cer	Samples: 1-4/03

Second Level - Data Review – to be filled by person doing peer review

Date: 11/14/11	Analyst: [illegible]	Samples: 001-003

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E1101017 DB-5 DB-225 SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 11/17/11	Analyst: cee	Samples: -004DL

Second Level - Data Review – to be filled by person doing peer review

Date: 11/21/11	Analyst: [illegible]	Samples: 004DL

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E1101017 DB-5 DB-225 SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 11/15/11	Analyst: Lee	Samples: -005

Second Level - Data Review – to be filled by person doing peer review

Date: 11/19/11	Analyst: [illegible]	Samples: 005

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E1101017 DB-5 DB-225 SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 11/26/11 Analyst: [illegible] Samples: 006

Second Level - Data Review – to be filled by person doing peer review

Date: 11/27/11 Analyst: [illegible] Samples: 006

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E1101017 DB-5 DB-225 SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 16 Nov 11	Analyst: Lee	Samples: 5-10 007-010

Second Level - Data Review – to be filled by person doing peer review

Date: 11/18/11	Analyst: [illegible]	Samples: 007-008-009-010

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID: E1101017 DB-5 DB-225 SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 11/30/11 Analyst: Cee Samples: -011

Second Level - Data Review – to be filled by person doing peer review

Date: 12/01/11 Analyst: [illegible] Samples: 011

Columbia Analytical Services INC

Analytical Results

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS1-PCBs	**Units:**	pg
Lab Code:	E1101017-001	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1148
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142057	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	**146**	J	18.1	1000	3.33	1.000	1
PCB 2	ND	U	25.6	50.0			1
PCB 3	**126**	BJK	27.8	1000	1.99	1.001	1
PCB 4	ND	U	3210	3210			1
PCB 10	ND	U	1270	1270			1
PCB 9	ND	U	2780	2780			1
PCB 7	ND	U	2560	2560			1
PCB 6	ND	U	2730	2730			1
PCB 5	ND	U	2780	2780			1
PCB 8	ND	U	2700	2700			1
PCB 14	ND	U	2710	2710			1
PCB 11	ND	U	2670	2670			1
PCBs 12 + 13	ND	U	2700	2700			1
PCB 15	ND	U	1430	2500			1
PCB 19	ND	U	469	500			1
PCBs 18 + 30	ND	U	334	2500			1
PCB 17	ND	U	388	1000			1
PCB 27	ND	U	301	1000			1
PCB 24	ND	U	272	1000			1
PCB 16	ND	U	509	509			1
PCB 32	ND	U	280	1000			1
PCB 34	ND	U	125	1000			1
PCB 23	ND	U	116	1000			1
PCBs 26 + 29	ND	U	123	1000			1
PCB 25	ND	U	112	1000			1
PCB 31	**212**	JK	125	2500	1.58	0.851	1
PCBs 20 + 28	**207**	J	106	2500	1.13	0.861	1
PCBs 21 + 33	ND	U	127	1000			1
PCB 22	ND	U	129	1000			1
PCB 36	ND	U	129	1000			1
PCB 39	ND	U	115	1000			1
PCB 38	ND	U	138	1000			1
PCB 35	ND	U	142	1000			1
PCB 37	ND	U	136	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS1-PCBs	**Units:**	pg
Lab Code:	E1101017-001	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1148
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142057	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	ND	U	15.3	2500			1
PCBs 50 + 53	**23.6**	JK	12.3	1000	1.07	1.096	1
PCBs 45 + 51	**55.7**	JK	12.7	1000	0.58	1.130	1
PCB 46	ND	U	14.8	1000			1
PCB 52	**179**	BJ	12.3	2500	0.85	1.205	1
PCBs 43 + 73	ND	U	11.2	2500			1
PCBs 49 + 69	**65.3**	J	11.0	2500	0.75	1.226	1
PCB 48	**21.1**	JK	12.1	1000	1.14	1.238	1
PCBs 44 + 47 + 65	**183**	BJ	11.3	2500	0.77	1.251	1
PCBs 59 + 62 + 75	ND	U	9.59	1000			1
PCB 42	ND	U	13.6	1000			1
PCBs 41 + 71 + 40	**52.3**	J	12.5	2500	0.77	1.295	1
PCB 64	**29.7**	JK	9.33	1000	1.10	1.305	1
PCB 72	ND	U	9.44	2500			1
PCB 68	**13.1**	J	8.54	2500	0.75	0.844	1
PCB 57	ND	U	10.1	2500			1
PCB 58	ND	U	9.40	2500			1
PCB 67	ND	U	9.40	2500			1
PCB 63	ND	U	10.1	2500			1
PCBs 70 + 61 + 74 + 76	**79.0**	BJ	9.38	2500	0.87	0.883	1
PCB 66	ND	U	9.78	2500			1
PCB 55	ND	U	9.96	2500			1
PCB 56	ND	U	21.1	1000			1
PCB 60	ND	U	21.8	2500			1
PCB 80	ND	U	20.6	2500			1
PCB 79	ND	U	21.2	2500			1
PCB 78	ND	U	24.4	2500			1
PCB 81	ND	U	25.3	2500			1
PCB 77	ND	U	24.1	2500			1
PCB 104	ND	U	14.4	2500			1
PCB 96	ND	U	8.75	2500			1
PCB 103	ND	U	10.3	2500			1
PCB 94	ND	U	11.7	2500			1
PCB 95	**102**	BJ	11.5	2500	1.37	1.107	1
PCBs 93 + 100	ND	U	11.2	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS1-PCBs	**Units:**	pg
Lab Code:	E1101017-001	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1148
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142057	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	ND	U	10.8	2500			1
PCBs 88 + 91	ND	U	11.7	2500			1
PCB 84	ND	U	13.3	2500			1
PCB 89	ND	U	13.8	2500			1
PCB 121	ND	U	11.9	2500			1
PCB 92	**20.2**	J	17.1	2500	1.51	0.864	1
PCBs 90 + 101 + 113	**95.0**	BJ	14.9	5000	1.44	0.879	1
PCBs 83 + 99	**36.9**	JK	16.3	2500	1.13	0.894	1
PCB 112	ND	U	12.9	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	**35.0**	J	14.5	2500	1.61	0.907	1
PCB 117	ND	U	12.7	1000			1
PCBs 85 + 116	**20.2**	J	14.5	1000	1.54	0.928	1
PCBs 110 + 115	**76.3**	J	12.3	5000	1.40	0.931	1
PCB 82	ND	U	20.2	2500			1
PCB 111	ND	U	12.1	5000			1
PCB 120	ND	U	12.7	2500			1
PCBs 108 + 124	ND	U	27.6	5000			1
PCB 107	ND	U	24.1	5000			1
PCB 123	ND	U	24.1	2500			1
PCB 106	ND	U	27.3	2500			1
PCB 118	**37.4**	J	23.7	2500	1.44	1.001	1
PCB 122	ND	U	28.6	2500			1
PCB 114	ND	U	22.0	2500			1
PCB 105	ND	U	25.5	1000			1
PCB 127	ND	U	27.9	5000			1
PCB 126	ND	U	28.8	2500			1
PCB 155	ND	U	19.9	5000			1
PCB 152	ND	U	12.7	5000			1
PCB 150	ND	U	11.5	5000			1
PCB 136	**70.0**	J	13.1	1000	1.19	1.023	1
PCB 145	ND	U	12.3	5000			1
PCB 148	ND	U	17.2	5000			1
PCBs 135 + 151	**55.1**	JK	16.9	2500	1.52	1.095	1
PCB 154	ND	U	14.9	2500			1
PCB 144	ND	U	16.7	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS1-PCBs	**Units:**	pg
Lab Code:	E1101017-001	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1148
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142057	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	**264**	J	15.9	2500	1.35	1.122	1
PCB 134	ND	U	20.0	2500			1
PCB 143	ND	U	18.2	2500			1
PCBs 139 + 140	ND	U	16.3	2500			1
PCB 131	ND	U	19.1	2500			1
PCB 142	ND	U	19.4	5000			1
PCB 132	**53.3**	J	18.2	2500	1.19	1.159	1
PCB 133	ND	U	18.8	2500			1
PCB 165	ND	U	13.8	5000			1
PCB 146	ND	U	16.1	2500			1
PCB 161	ND	U	14.3	5000			1
PCBs 153 + 168	**97.4**	JK	14.6	2500	1.59	0.905	1
PCB 141	ND	U	18.5	1000			1
PCB 130	ND	U	21.1	2500			1
PCB 137	ND	U	17.4	5000			1
PCB 164	ND	U	14.3	2500			1
PCBs 129 + 138 + 163	**89.2**	J	16.5	2500	1.39	0.934	1
PCB 160	ND	U	13.2	2500			1
PCB 158	ND	U	12.7	1000			1
PCBs 128 + 166	ND	U	15.7	2500			1
PCB 159	ND	U	18.7	5000			1
PCB 162	ND	U	17.5	5000			1
PCB 167	ND	U	16.0	2500			1
PCBs 156 + 157	ND	U	21.0	2500			1
PCB 169	ND	U	18.8	2500			1
PCB 188	ND	U	12.1	2500			1
PCB 179	**135**	J	9.22	2500	0.90	1.009	1
PCB 184	ND	U	8.40	5000			1
PCB 176	**15.2**	JK	9.53	5000	1.64	1.032	1
PCB 186	ND	U	9.17	5000			1
PCB 178	**34.8**	J	12.7	2500	1.03	1.079	1
PCB 175	ND	U	12.2	5000			1
PCB 187	**130**	J	10.6	2500	1.06	1.102	1
PCB 182	ND	U	14.2	5000			1
PCB 183	**50.4**	JK	22.1	5000	1.60	1.118	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS1-PCBs	**Units:**	pg
Lab Code:	E1101017-001	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1148
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142057	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	ND	U	20.9	5000			1
PCB 174	**50.9**	JK	23.1	2500	0.86	1.124	1
PCB 177	**42.6**	JK	25.5	2500	1.45	1.136	1
PCB 181	ND	U	21.6	5000			1
PCBs 171 + 173	ND	U	25.5	5000			1
PCB 172	ND	U	26.8	5000			1
PCB 192	ND	U	19.4	5000			1
PCBs 180 + 193	**46.0**	JK	20.9	2500	1.59	0.915	1
PCB 191	ND	U	19.9	5000			1
PCB 170	ND	U	27.9	2500			1
PCB 190	ND	U	21.4	2500			1
PCB 189	ND	U	20.2	2500			1
PCB 202	**32.2**	JK	18.3	5000	0.70	1.001	1
PCB 201	ND	U	15.3	5000			1
PCB 204	ND	U	15.7	5000			1
PCB 197	ND	U	15.0	5000			1
PCB 200	ND	U	15.4	5000			1
PCBs 198 + 199	ND	U	22.6	2500			1
PCB 196	ND	U	23.3	5000			1
PCB 203	ND	U	20.0	5000			1
PCB 195	ND	U	25.9	5000			1
PCB 194	ND	U	27.1	2500			1
PCB 205	ND	U	26.1	5000			1
PCB 208	**29.8**	JK	22.5	5000	0.64	1.001	1
PCB 207	ND	U	21.5	5000			1
PCB 206	ND	U	36.3	5000			1
PCB 209	**58.6**	J	25.2	2500	1.02	1.000	1
Total MonoCB	**271**	J	18.1	1000			1
Total DiCB	ND	U	1270	2500			1
Total TriCB	**419**	J	106	2500			1
Total TetraCB	**702**	J	8.54	2500			1
Total PentaCB	**388**	J	8.75	5000			1
Total HexaCB	**629**	J	11.5	5000			1
Total HeptaCB	**505**	J	8.40	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS1-PCBs	**Units:**	pg
Lab Code:	E1101017-001	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1148
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142057	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	**32.2**	J	15.0	5000			1
Total NonaCB	**29.8**	J	21.5	5000			1
Total PCBs	**3070**	J	8.40	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS1-PCBs	**Units:**	Percent
Lab Code:	E1101017-001	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1148
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142057	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	6284.182	63		15-150	3.06	0.740
PCB 3L	10000	9559.295	96		15-150	3.15	0.866
PCB 4L	10000	8947.662	89		25-150	1.57	0.880
PCB 15L	10000	9764.134	98		25-150	1.58	1.219
PCB 19L	10000	7873.246	79		25-150	1.01	1.064
PCB 37L	10000	8582.771	86		25-150	1.08	1.082
PCB 54L	10000	6692.892	67		25-150	0.80	0.831
PCB 81L	10000	9128.650	91		25-150	0.79	1.335
PCB 77L	10000	10206.664	102		25-150	0.82	1.357
PCB 104L	10000	5955.465	60		25-150	1.59	0.824
PCB 123L	10000	9024.363	90		25-150	1.59	1.138
PCB 118L	10000	8904.264	89		25-150	1.60	1.148
PCB 114L	10000	9762.244	98		25-150	1.68	1.164
PCB 105L	10000	8918.787	89		25-150	1.58	1.183
PCB 126L	10000	9262.571	93		25-150	1.62	1.275
PCB 155L	10000	7167.240	72		25-150	1.24	0.800
PCB 167L	10000	9881.466	99		25-150	1.25	1.073
PCBs 156L + 157L	20000	21678.060	108		25-150	1.26	1.100
PCB 169L	10000	10840.340	108		25-150	1.28	1.177
PCB 188L	10000	7525.181	75		25-150	1.05	0.728
PCB 189L	10000	9351.492	94		25-150	1.04	0.961
PCB 202L	10000	7940.012	79		25-150	0.92	0.828
PCB 205L	10000	6959.059	70		25-150	0.90	1.009
PCB 208L	10000	7866.037	79		25-150	0.79	0.952
PCB 206L	10000	7733.553	77		25-150	0.78	1.041
PCB 209L	10000	6278.590	63		25-150	1.20	1.071
PCB 28L	10000	7480.619	75		30-135	1.09	0.931
PCB 111L	10000	8507.230	85		30-135	1.58	1.081
PCB 178L	10000	7555.299	76		30-135	1.03	1.011
PCB 8L	10000	994.908	10	Y	25-150	1.59	0.857
PCB 70L	10000	5172.002	52		25-150	0.80	0.882

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS1-PCBs	**Units:**	pg
Lab Code:	E1101017-001	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	25.3	2500	1	0.0003	
PCB 77	ND	24.1	2500	1	0.0001	
PCB 123	ND	24.1	2500	1	0.00003	
PCB 118	**37.4**	23.7	2500	1	0.00003	0.00112
PCB 114	ND	22.0	2500	1	0.00003	
PCB 105	ND	25.5	1000	1	0.00003	
PCB 126	ND	28.8	2500	1	0.1	
PCB 167	ND	16.0	2500	1	0.00003	
PCBs 156 + 157	ND	21.0	2500	1	0.00003	
PCB 169	ND	18.8	2500	1	0.03	
PCB 189	ND	20.2	2500	1	0.00003	
		Total TEQ				0.00112

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS2-PCBs	**Units:**	pg
Lab Code:	E1101017-002	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1256
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142058	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	**160**	J	14.8	1000	2.69	1.001	1
PCB 2	ND	U	19.0	50.0			1
PCB 3	**148**	BJK	20.2	1000	2.06	1.001	1
PCB 4	ND	U	750	2500			1
PCB 10	ND	U	404	404			1
PCB 9	ND	U	1040	1040			1
PCB 7	ND	U	950	950			1
PCB 6	ND	U	1020	1020			1
PCB 5	ND	U	1030	1030			1
PCB 8	ND	U	1000	2500			1
PCB 14	ND	U	1010	1010			1
PCB 11	ND	U	990	1000			1
PCBs 12 + 13	ND	U	999	999			1
PCB 15	ND	U	872	2500			1
PCB 19	ND	U	1470	1470			1
PCBs 18 + 30	ND	U	1090	2500			1
PCB 17	ND	U	1260	1260			1
PCB 27	ND	U	972	1000			1
PCB 24	ND	U	878	1000			1
PCB 16	ND	U	1650	1650			1
PCB 32	ND	U	906	1000			1
PCB 34	ND	U	423	1000			1
PCB 23	ND	U	391	1000			1
PCBs 26 + 29	ND	U	417	1000			1
PCB 25	ND	U	380	1000			1
PCB 31	ND	U	422	2500			1
PCBs 20 + 28	ND	U	357	2500			1
PCBs 21 + 33	ND	U	430	1000			1
PCB 22	ND	U	437	1000			1
PCB 36	ND	U	437	1000			1
PCB 39	ND	U	389	1000			1
PCB 38	ND	U	465	1000			1
PCB 35	ND	U	480	1000			1
PCB 37	ND	U	470	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS2-PCBs	**Units:**	pg
Lab Code:	E1101017-002	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1256
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142058	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	ND	U	22.3	2500			1
PCBs 50 + 53	ND	U	22.4	1000			1
PCBs 45 + 51	**97.3**	JK	23.2	1000	1.05	1.134	1
PCB 46	ND	U	27.0	1000			1
PCB 52	**137**	BJ	22.5	2500	0.76	1.210	1
PCBs 43 + 73	ND	U	20.5	2500			1
PCBs 49 + 69	**40.3**	J	20.1	2500	0.67	1.231	1
PCB 48	ND	U	22.1	1000			1
PCBs 44 + 47 + 65	**199**	BJK	20.6	2500	0.97	1.257	1
PCBs 59 + 62 + 75	ND	U	17.6	1000			1
PCB 42	ND	U	24.9	1000			1
PCBs 41 + 71 + 40	ND	U	22.9	2500			1
PCB 64	ND	U	17.1	1000			1
PCB 72	ND	U	17.3	2500			1
PCB 68	**20.1**	JK	15.7	2500	0.93	0.844	1
PCB 57	**47.9**	JK	18.5	2500	3.76	0.857	1
PCB 58	ND	U	17.3	2500			1
PCB 67	ND	U	17.3	2500			1
PCB 63	ND	U	18.4	2500			1
PCBs 70 + 61 + 74 + 76	**1710**	BJK	17.2	2500	3.06	0.885	1
PCB 66	ND	U	18.0	2500			1
PCB 55	ND	U	18.3	2500			1
PCB 56	ND	U	47.6	1000			1
PCB 60	ND	U	49.3	2500			1
PCB 80	ND	U	46.6	2500			1
PCB 79	ND	U	47.8	2500			1
PCB 78	ND	U	55.2	2500			1
PCB 81	ND	U	56.4	2500			1
PCB 77	ND	U	58.0	2500			1
PCB 104	ND	U	25.0	2500			1
PCB 96	ND	U	18.3	2500			1
PCB 103	ND	U	21.5	2500			1
PCB 94	ND	U	24.3	2500			1
PCB 95	**60.9**	BJ	23.9	2500	1.68	1.107	1
PCBs 93 + 100	ND	U	23.3	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS2-PCBs	**Units:**	pg
Lab Code:	E1101017-002	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1256
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142058	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	ND	U	22.5	2500			1
PCBs 88 + 91	ND	U	24.2	2500			1
PCB 84	ND	U	27.6	2500			1
PCB 89	ND	U	28.6	2500			1
PCB 121	ND	U	26.2	2500			1
PCB 92	ND	U	37.8	2500			1
PCBs 90 + 101 + 113	**52.7**	BJ	33.0	5000	1.32	0.880	1
PCBs 83 + 99	ND	U	36.0	2500			1
PCB 112	ND	U	28.6	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	ND	U	32.0	2500			1
PCB 117	ND	U	28.1	1000			1
PCBs 85 + 116	ND	U	32.1	1000			1
PCBs 110 + 115	**31.9**	JK	27.2	5000	2.88	0.931	1
PCB 82	ND	U	44.7	2500			1
PCB 111	ND	U	26.8	5000			1
PCB 120	ND	U	28.2	2500			1
PCBs 108 + 124	ND	U	26.6	5000			1
PCB 107	ND	U	23.3	5000			1
PCB 123	ND	U	24.2	2500			1
PCB 106	ND	U	26.3	2500			1
PCB 118	ND	U	24.4	2500			1
PCB 122	ND	U	27.5	2500			1
PCB 114	ND	U	22.6	2500			1
PCB 105	ND	U	24.3	1000			1
PCB 127	ND	U	26.9	5000			1
PCB 126	ND	U	27.8	2500			1
PCB 155	ND	U	30.3	5000			1
PCB 152	ND	U	23.5	5000			1
PCB 150	ND	U	21.3	5000			1
PCB 136	ND	U	24.3	1000			1
PCB 145	ND	U	22.7	5000			1
PCB 148	ND	U	31.9	5000			1
PCBs 135 + 151	ND	U	31.4	2500			1
PCB 154	ND	U	27.5	2500			1
PCB 144	ND	U	31.0	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS2-PCBs	**Units:**	pg
Lab Code:	E1101017-002	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1256
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142058	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	ND	U	21.5	2500			1
PCB 134	ND	U	27.0	2500			1
PCB 143	ND	U	24.6	2500			1
PCBs 139 + 140	ND	U	21.9	2500			1
PCB 131	ND	U	25.8	2500			1
PCB 142	ND	U	26.2	5000			1
PCB 132	ND	U	24.6	2500			1
PCB 133	ND	U	25.4	2500			1
PCB 165	ND	U	18.7	5000			1
PCB 146	ND	U	21.7	2500			1
PCB 161	ND	U	19.3	5000			1
PCBs 153 + 168	ND	U	19.7	2500			1
PCB 141	ND	U	24.9	1000			1
PCB 130	ND	U	28.4	2500			1
PCB 137	ND	U	23.5	5000			1
PCB 164	ND	U	19.3	2500			1
PCBs 129 + 138 + 163	ND	U	22.2	2500			1
PCB 160	ND	U	17.8	2500			1
PCB 158	ND	U	17.1	1000			1
PCBs 128 + 166	ND	U	21.2	2500			1
PCB 159	ND	U	41.1	5000			1
PCB 162	ND	U	38.6	5000			1
PCB 167	ND	U	38.3	2500			1
PCBs 156 + 157	ND	U	51.4	2500			1
PCB 169	ND	U	40.8	2500			1
PCB 188	ND	U	20.6	2500			1
PCB 179	ND	U	16.1	2500			1
PCB 184	ND	U	14.6	5000			1
PCB 176	ND	U	16.6	5000			1
PCB 186	ND	U	16.0	5000			1
PCB 178	ND	U	22.1	2500			1
PCB 175	ND	U	21.2	5000			1
PCB 187	ND	U	18.4	2500			1
PCB 182	ND	U	24.6	5000			1
PCB 183	ND	U	50.2	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS2-PCBs	**Units:**	pg
Lab Code:	E1101017-002	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1256
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142058	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	ND	U	47.5	5000			1
PCB 174	ND	U	52.5	2500			1
PCB 177	ND	U	57.8	2500			1
PCB 181	ND	U	49.1	5000			1
PCBs 171 + 173	ND	U	57.8	5000			1
PCB 172	ND	U	60.8	5000			1
PCB 192	ND	U	44.0	5000			1
PCBs 180 + 193	ND	U	47.3	2500			1
PCB 191	ND	U	45.1	5000			1
PCB 170	ND	U	63.3	2500			1
PCB 190	ND	U	48.5	2500			1
PCB 189	ND	U	47.2	2500			1
PCB 202	ND	U	36.7	5000			1
PCB 201	ND	U	31.0	5000			1
PCB 204	ND	U	31.9	5000			1
PCB 197	ND	U	30.4	5000			1
PCB 200	ND	U	31.1	5000			1
PCBs 198 + 199	ND	U	45.7	2500			1
PCB 196	ND	U	47.2	5000			1
PCB 203	ND	U	40.4	5000			1
PCB 195	ND	U	52.5	5000			1
PCB 194	ND	U	54.8	2500			1
PCB 205	ND	U	52.9	5000			1
PCB 208	ND	U	39.3	5000			1
PCB 207	ND	U	35.7	5000			1
PCB 206	ND	U	50.8	5000			1
PCB 209	ND	U	32.8	2500			1
Total MonoCB	**308**	J	14.8	1000			1
Total DiCB	ND	U	404	2500			1
Total TriCB	ND	U	357	2500			1
Total TetraCB	**2250**	J	15.7	2500			1
Total PentaCB	**145**	J	18.3	5000			1
Total HexaCB	ND	U	17.1	5000			1
Total HeptaCB	ND	U	14.6	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS2-PCBs	**Units:**	pg
Lab Code:	E1101017-002	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1256
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142058	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	ND	U	30.4	5000			1
Total NonaCB	ND	U	35.7	5000			1
Total PCBs	**2710**	J	14.6	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS2-PCBs	**Units:**	Percent
Lab Code:	E1101017-002	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1256
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142058	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	6390.166	64		15-150	3.02	0.743
PCB 3L	10000	7506.378	75		15-150	3.09	0.869
PCB 4L	10000	7401.561	74		25-150	1.55	0.884
PCB 15L	10000	7295.786	73		25-150	1.60	1.220
PCB 19L	10000	6507.523	65		25-150	1.07	1.065
PCB 37L	10000	6772.655	68		25-150	1.09	1.083
PCB 54L	10000	6051.069	61		25-150	0.80	0.828
PCB 81L	10000	7936.521	79		25-150	0.80	1.336
PCB 77L	10000	8290.266	83		25-150	0.78	1.357
PCB 104L	10000	4731.156	47		25-150	1.55	0.824
PCB 123L	10000	6086.302	61		25-150	1.57	1.138
PCB 118L	10000	5932.953	59		25-150	1.57	1.148
PCB 114L	10000	6431.716	64		25-150	1.66	1.164
PCB 105L	10000	6444.772	64		25-150	1.57	1.183
PCB 126L	10000	6906.775	69		25-150	1.67	1.275
PCB 155L	10000	5604.643	56		25-150	1.22	0.800
PCB 167L	10000	6349.071	63		25-150	1.30	1.073
PCBs 156L + 157L	20000	13258.954	66		25-150	1.25	1.100
PCB 169L	10000	7575.957	76		25-150	1.26	1.177
PCB 188L	10000	6191.353	62		25-150	1.04	0.728
PCB 189L	10000	7396.408	74		25-150	1.05	0.961
PCB 202L	10000	6367.116	64		25-150	0.93	0.828
PCB 205L	10000	5827.493	58		25-150	0.92	1.009
PCB 208L	10000	6512.992	65		25-150	0.76	0.952
PCB 206L	10000	6892.285	69		25-150	0.78	1.041
PCB 209L	10000	5092.417	51		25-150	1.21	1.071
PCB 28L	10000	6114.078	61		30-135	1.09	0.931
PCB 111L	10000	6925.501	69		30-135	1.57	1.081
PCB 178L	10000	6313.195	63		30-135	1.05	1.011
PCB 8L	10000	2115.017	21	Y	25-150	1.58	0.857
PCB 70L	10000	7925.704	79		25-150	0.81	0.883

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 1950
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-SS2-PCBs	**Units:**	pg
Lab Code:	E1101017-002	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	56.4	2500	1	0.0003	
PCB 77	ND	58.0	2500	1	0.0001	
PCB 123	ND	24.2	2500	1	0.00003	
PCB 118	ND	24.4	2500	1	0.00003	
PCB 114	ND	22.6	2500	1	0.00003	
PCB 105	ND	24.3	1000	1	0.00003	
PCB 126	ND	27.8	2500	1	0.1	
PCB 167	ND	38.3	2500	1	0.00003	
PCBs 156 + 157	ND	51.4	2500	1	0.00003	
PCB 169	ND	40.8	2500	1	0.03	
PCB 189	ND	47.2	2500	1	0.00003	
		Total TEQ				0.00

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-SSBlank-PCBs	**Units:**	pg
Lab Code:	E1101017-003	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1404
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142059	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	ND	U	22.5	1000			1
PCB 2	ND	U	30.0	50.0			1
PCB 3	ND	U	32.4	1000			1
PCB 4	ND	U	854	2500			1
PCB 10	ND	U	412	412			1
PCB 9	ND	U	1080	1080			1
PCB 7	ND	U	994	994			1
PCB 6	ND	U	1070	1070			1
PCB 5	ND	U	1080	1080			1
PCB 8	ND	U	1050	2500			1
PCB 14	ND	U	1050	1050			1
PCB 11	ND	U	1040	1040			1
PCBs 12 + 13	ND	U	1050	1050			1
PCB 15	ND	U	788	2500			1
PCB 19	ND	U	1330	1330			1
PCBs 18 + 30	ND	U	983	2500			1
PCB 17	ND	U	1140	1140			1
PCB 27	ND	U	884	1000			1
PCB 24	ND	U	798	1000			1
PCB 16	ND	U	1500	1500			1
PCB 32	ND	U	824	1000			1
PCB 34	ND	U	539	1000			1
PCB 23	ND	U	498	1000			1
PCBs 26 + 29	ND	U	531	1000			1
PCB 25	ND	U	484	1000			1
PCB 31	ND	U	537	2500			1
PCBs 20 + 28	ND	U	455	2500			1
PCBs 21 + 33	ND	U	548	1000			1
PCB 22	ND	U	556	1000			1
PCB 36	ND	U	556	1000			1
PCB 39	ND	U	496	1000			1
PCB 38	ND	U	593	1000			1
PCB 35	ND	U	612	1000			1
PCB 37	ND	U	600	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-SSBlank-PCBs	**Units:**	pg
Lab Code:	E1101017-003	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1404
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142059	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	ND	U	27.6	2500			1
PCBs 50 + 53	ND	U	23.8	1000			1
PCBs 45 + 51	ND	U	24.7	1000			1
PCB 46	ND	U	28.7	1000			1
PCB 52	**101**	BJ	23.9	2500	0.85	1.210	1
PCBs 43 + 73	ND	U	21.8	2500			1
PCBs 49 + 69	**37.0**	J	21.4	2500	0.79	1.231	1
PCB 48	ND	U	23.5	1000			1
PCBs 44 + 47 + 65	**103**	BJK	21.9	2500	0.92	1.257	1
PCBs 59 + 62 + 75	ND	U	18.7	1000			1
PCB 42	ND	U	26.4	1000			1
PCBs 41 + 71 + 40	ND	U	24.3	2500			1
PCB 64	ND	U	18.2	1000			1
PCB 72	ND	U	18.4	2500			1
PCB 68	ND	U	16.7	2500			1
PCB 57	ND	U	19.6	2500			1
PCB 58	ND	U	18.3	2500			1
PCB 67	ND	U	18.3	2500			1
PCB 63	ND	U	19.6	2500			1
PCBs 70 + 61 + 74 + 76	**44.8**	BJ	18.3	2500	0.80	0.884	1
PCB 66	ND	U	19.1	2500			1
PCB 55	ND	U	19.4	2500			1
PCB 56	ND	U	27.4	1000			1
PCB 60	ND	U	28.4	2500			1
PCB 80	ND	U	26.8	2500			1
PCB 79	ND	U	27.5	2500			1
PCB 78	ND	U	31.7	2500			1
PCB 81	ND	U	32.5	2500			1
PCB 77	ND	U	31.7	2500			1
PCB 104	ND	U	25.9	2500			1
PCB 96	ND	U	17.4	2500			1
PCB 103	ND	U	20.5	2500			1
PCB 94	ND	U	23.2	2500			1
PCB 95	ND	U	22.9	2500			1
PCBs 93 + 100	ND	U	22.3	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-SSBlank-PCBs	**Units:**	pg
Lab Code:	E1101017-003	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1404
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142059	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	ND	U	21.5	2500			1
PCBs 88 + 91	ND	U	23.2	2500			1
PCB 84	ND	U	26.4	2500			1
PCB 89	ND	U	27.3	2500			1
PCB 121	ND	U	23.9	2500			1
PCB 92	ND	U	34.4	2500			1
PCBs 90 + 101 + 113	**36.7**	BJK	30.1	5000	2.27	0.880	1
PCBs 83 + 99	ND	U	32.8	2500			1
PCB 112	ND	U	26.1	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	ND	U	29.2	2500			1
PCB 117	ND	U	25.6	1000			1
PCBs 85 + 116	ND	U	29.3	1000			1
PCBs 110 + 115	**26.7**	J	24.8	5000	1.43	0.931	1
PCB 82	ND	U	40.7	2500			1
PCB 111	ND	U	24.4	5000			1
PCB 120	ND	U	25.7	2500			1
PCBs 108 + 124	ND	U	20.5	5000			1
PCB 107	ND	U	18.0	5000			1
PCB 123	ND	U	18.7	2500			1
PCB 106	ND	U	20.3	2500			1
PCB 118	**31.3**	JK	18.2	2500	2.13	1.001	1
PCB 122	ND	U	21.3	2500			1
PCB 114	ND	U	16.7	2500			1
PCB 105	ND	U	18.8	1000			1
PCB 127	ND	U	20.8	5000			1
PCB 126	ND	U	20.8	2500			1
PCB 155	ND	U	20.0	5000			1
PCB 152	ND	U	14.4	5000			1
PCB 150	ND	U	13.0	5000			1
PCB 136	ND	U	14.9	1000			1
PCB 145	ND	U	13.9	5000			1
PCB 148	ND	U	19.5	5000			1
PCBs 135 + 151	ND	U	19.2	2500			1
PCB 154	ND	U	16.8	2500			1
PCB 144	ND	U	19.0	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-SSBlank-PCBs	**Units:**	pg
Lab Code:	E1101017-003	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1404
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142059	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	ND	U	20.4	2500			1
PCB 134	ND	U	25.6	2500			1
PCB 143	ND	U	23.3	2500			1
PCBs 139 + 140	ND	U	20.8	2500			1
PCB 131	ND	U	24.5	2500			1
PCB 142	ND	U	24.9	5000			1
PCB 132	ND	U	23.3	2500			1
PCB 133	ND	U	24.1	2500			1
PCB 165	ND	U	17.7	5000			1
PCB 146	ND	U	20.6	2500			1
PCB 161	ND	U	18.3	5000			1
PCBs 153 + 168	ND	U	18.7	2500			1
PCB 141	ND	U	23.7	1000			1
PCB 130	ND	U	27.0	2500			1
PCB 137	ND	U	22.3	5000			1
PCB 164	ND	U	18.3	2500			1
PCBs 129 + 138 + 163	ND	U	21.1	2500			1
PCB 160	ND	U	16.9	2500			1
PCB 158	ND	U	16.2	1000			1
PCBs 128 + 166	ND	U	20.1	2500			1
PCB 159	ND	U	25.1	5000			1
PCB 162	ND	U	23.6	5000			1
PCB 167	ND	U	23.1	2500			1
PCBs 156 + 157	ND	U	30.1	2500			1
PCB 169	ND	U	24.6	2500			1
PCB 188	ND	U	16.7	2500			1
PCB 179	ND	U	12.8	2500			1
PCB 184	ND	U	11.7	5000			1
PCB 176	ND	U	13.2	5000			1
PCB 186	ND	U	12.7	5000			1
PCB 178	ND	U	17.6	2500			1
PCB 175	ND	U	16.9	5000			1
PCB 187	ND	U	14.6	2500			1
PCB 182	ND	U	19.6	5000			1
PCB 183	ND	U	35.1	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-SSBlank-PCBs	**Units:**	pg
Lab Code:	E1101017-003	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1404
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142059	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	ND	U	33.2	5000			1
PCB 174	ND	U	36.7	2500			1
PCB 177	ND	U	40.4	2500			1
PCB 181	ND	U	34.4	5000			1
PCBs 171 + 173	ND	U	40.4	5000			1
PCB 172	ND	U	42.5	5000			1
PCB 192	ND	U	30.8	5000			1
PCBs 180 + 193	ND	U	33.1	2500			1
PCB 191	ND	U	31.6	5000			1
PCB 170	ND	U	44.3	2500			1
PCB 190	ND	U	33.9	2500			1
PCB 189	ND	U	32.4	2500			1
PCB 202	ND	U	23.7	5000			1
PCB 201	ND	U	19.2	5000			1
PCB 204	ND	U	19.7	5000			1
PCB 197	ND	U	18.8	5000			1
PCB 200	ND	U	19.2	5000			1
PCBs 198 + 199	ND	U	28.3	2500			1
PCB 196	ND	U	29.2	5000			1
PCB 203	ND	U	25.0	5000			1
PCB 195	ND	U	32.5	5000			1
PCB 194	ND	U	33.9	2500			1
PCB 205	ND	U	31.2	5000			1
PCB 208	ND	U	34.3	5000			1
PCB 207	ND	U	31.4	5000			1
PCB 206	ND	U	84.9	5000			1
PCB 209	ND	U	39.1	2500			1
Total MonoCB	ND	U	22.5	1000			1
Total DiCB	ND	U	412	2500			1
Total TriCB	ND	U	455	2500			1
Total TetraCB	**285**	J	16.7	2500			1
Total PentaCB	**94.7**	J	16.7	5000			1
Total HexaCB	ND	U	13.0	5000			1
Total HeptaCB	ND	U	11.7	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-SSBlank-PCBs	**Units:**	pg
Lab Code:	E1101017-003	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1404
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142059	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	ND	U	18.8	5000			1
Total NonaCB	ND	U	31.4	5000			1
Total PCBs	**380**	J	11.7	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-SSBlank-PCBs	**Units:**	Percent
Lab Code:	E1101017-003	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1404
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142059	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	5918.602	59		15-150	2.99	0.742
PCB 3L	10000	7071.173	71		15-150	3.10	0.869
PCB 4L	10000	7152.680	72		25-150	1.54	0.883
PCB 15L	10000	7339.702	73		25-150	1.58	1.219
PCB 19L	10000	6168.054	62		25-150	1.04	1.064
PCB 37L	10000	6657.746	67		25-150	1.08	1.083
PCB 54L	10000	5551.843	56		25-150	0.79	0.828
PCB 81L	10000	7444.951	74		25-150	0.78	1.336
PCB 77L	10000	7946.732	79		25-150	0.80	1.357
PCB 104L	10000	4564.150	46		25-150	1.52	0.824
PCB 123L	10000	6082.074	61		25-150	1.59	1.138
PCB 118L	10000	6083.992	61		25-150	1.61	1.148
PCB 114L	10000	6598.543	66		25-150	1.62	1.164
PCB 105L	10000	6379.779	64		25-150	1.60	1.183
PCB 126L	10000	6791.621	68		25-150	1.62	1.275
PCB 155L	10000	5527.165	55		25-150	1.25	0.800
PCB 167L	10000	6331.301	63		25-150	1.27	1.073
PCBs 156L + 157L	20000	13827.823	69		25-150	1.26	1.100
PCB 169L	10000	7646.734	76		25-150	1.26	1.177
PCB 188L	10000	6191.078	62		25-150	1.03	0.728
PCB 189L	10000	7227.762	72		25-150	1.03	0.961
PCB 202L	10000	6121.698	61		25-150	0.92	0.828
PCB 205L	10000	5686.974	57		25-150	0.92	1.009
PCB 208L	10000	6261.974	63		25-150	0.81	0.952
PCB 206L	10000	6488.883	65		25-150	0.76	1.041
PCB 209L	10000	4878.092	49		25-150	1.16	1.071
PCB 28L	10000	5637.726	56		30-135	1.05	0.931
PCB 111L	10000	6397.622	64		30-135	1.56	1.081
PCB 178L	10000	5693.501	57		30-135	1.05	1.011
PCB 8L	10000	7156.098	72		25-150	1.59	0.858
PCB 70L	10000	8115.526	81		25-150	0.80	0.883

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/15/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-SSBlank-PCBs	**Units:**	pg
Lab Code:	E1101017-003	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	32.5	2500	1	0.0003	
PCB 77	ND	31.7	2500	1	0.0001	
PCB 123	ND	18.7	2500	1	0.00003	
PCB 118	**31.3**	18.2	2500	1	0.00003	0.000939
PCB 114	ND	16.7	2500	1	0.00003	
PCB 105	ND	18.8	1000	1	0.00003	
PCB 126	ND	20.8	2500	1	0.1	
PCB 167	ND	23.1	2500	1	0.00003	
PCBs 156 + 157	ND	30.1	2500	1	0.00003	
PCB 169	ND	24.6	2500	1	0.03	
PCB 189	ND	32.4	2500	1	0.00003	
		Total TEQ				0.000939

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2010
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS1-PCBs	**Units:**	pg
Lab Code:	E1101017-004	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/11/11 1525
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142091	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142083

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	**7740**		82.9	1000	3.23	1.001	1
PCB 2	**1920**	K	92.3	92.3	3.74	0.990	1
PCB 3	**9190**	B	93.3	1000	3.26	1.002	1
PCB 4	ND	U	57600	57600			1
PCB 10	ND	U	20500	20500			1
PCB 9	**12900**		1170	1170	1.59	1.131	1
PCB 7	**7680**		997	997	1.50	1.140	1
PCB 6	**47400**		1110	1110	1.56	1.157	1
PCB 5	ND	U	1150	1150			1
PCB 8	**284000**		1050	2500	1.59	1.184	1
PCB 14	ND	U	1110	1110			1
PCB 11	**138000**		1140	1140	1.57	0.973	1
PCBs 12 + 13	**9370**	K	1120	1120	2.16	0.986	1
PCB 15	**138000**		1070	2500	1.60	1.001	1
PCB 19	**26100**		4270	4270	1.06	1.001	1
PCBs 18 + 30	**156000**		2520	2520	1.04	1.103	1
PCB 17	**110000**		3080	3080	1.01	1.126	1
PCB 27	**17200**		2220	2220	0.99	1.137	1
PCB 24	**24400**		2180	2180	1.06	1.146	1
PCB 16	**95300**		3410	3410	1.05	1.150	1
PCB 32	**50500**		2050	2050	1.04	1.177	1
PCB 34	ND	U	344	1000			1
PCB 23	ND	U	341	1000			1
PCBs 26 + 29	**82000**		329	1000	0.93	1.268	1
PCB 25	**18700**	K	316	1000	0.83	0.839	1
PCB 31	**385000**		317	2500	1.02	0.850	1
PCBs 20 + 28	**457000**		321	2500	1.02	0.860	1
PCBs 21 + 33	**234000**		341	1000	1.02	0.868	1
PCB 22	**151000**		340	1000	1.06	0.882	1
PCB 36	ND	U	345	1000			1
PCB 39	ND	U	320	1000			1
PCB 38	ND	U	388	1000			1
PCB 35	ND	U	406	1000			1
PCB 37	**40100**	K	351	2500	0.83	1.001	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2010
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS1-PCBs	**Units:**	pg
Lab Code:	E1101017-004	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/11/11 1525
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142091	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142083

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	**734**	JK	543	2500	0.96	1.001	1
PCBs 50 + 53	**44700**		200	1000	0.79	1.097	1
PCBs 45 + 51	**71200**		207	1000	0.81	1.127	1
PCB 46	**18000**		241	1000	0.82	1.142	1
PCB 52	**186000**	B	193	2500	0.80	1.208	1
PCBs 43 + 73	**5720**		176	2500	0.72	1.219	1
PCBs 49 + 69	**104000**		178	2500	0.79	1.230	1
PCB 48	**53600**		195	1000	0.74	1.243	1
PCBs 44 + 47 + 65	**159000**	B	184	2500	0.82	1.253	1
PCBs 59 + 62 + 75	**20000**		159	1000	0.77	1.268	1
PCB 42	**35700**		212	1000	0.78	1.277	1
PCBs 41 + 71 + 40	**93100**		207	2500	0.80	1.300	1
PCB 64	**54400**		156	1000	0.79	1.310	1
PCB 72	ND	U	151	2500			1
PCB 68	**2980**		138	2500	0.74	0.843	1
PCB 57	**499**	JK	161	2500	0.99	0.855	1
PCB 58	ND	U	155	2500			1
PCB 67	**3050**		150	2500	0.80	0.866	1
PCB 63	**2960**		160	2500	0.75	0.874	1
PCBs 70 + 61 + 74 + 76	**138000**	B	155	2500	0.82	0.884	1
PCB 66	**54200**		166	2500	0.85	0.893	1
PCB 55	ND	U	159	2500			1
PCB 56	**39600**		330	1000	0.78	0.911	1
PCB 60	**22400**		331	2500	0.80	0.917	1
PCB 80	ND	U	312	2500			1
PCB 79	**808**	J	344	2500	0.75	0.974	1
PCB 78	ND	U	372	2500			1
PCB 81	ND	U	378	2500			1
PCB 77	**4450**		385	2500	0.70	1.000	1
PCB 104	ND	U	302	2500			1
PCB 96	**783**	J	175	2500	1.40	1.014	1
PCB 103	ND	U	214	2500			1
PCB 94	ND	U	230	2500			1
PCB 95	**56800**	B	229	2500	1.57	1.110	1
PCBs 93 + 100	ND	U	214	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2010
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS1-PCBs	**Units:**	pg
Lab Code:	E1101017-004	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/11/11 1525
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142091	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142083

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	**1200**	JK	223	2500	0.96	1.124	1
PCBs 88 + 91	**8530**		228	2500	1.35	1.142	1
PCB 84	**10700**		257	2500	1.55	1.151	1
PCB 89	ND	U	256	2500			1
PCB 121	ND	U	244	2500			1
PCB 92	**5450**		361	2500	1.59	0.865	1
PCBs 90 + 101 + 113	**60300**	B	307	5000	1.57	0.880	1
PCBs 83 + 99	**22000**		340	2500	1.57	0.895	1
PCB 112	ND	U	261	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	**28100**		305	2500	1.62	0.910	1
PCB 117	ND	U	280	1000			1
PCBs 85 + 116	**10200**		301	1000	1.71	0.927	1
PCBs 110 + 115	**35800**		261	5000	1.54	0.931	1
PCB 82	**4010**		424	2500	1.55	0.939	1
PCB 111	ND	U	248	5000			1
PCB 120	ND	U	264	2500			1
PCBs 108 + 124	**1220**	JK	438	5000	1.15	0.991	1
PCB 107	**2350**	J	414	5000	1.51	0.997	1
PCB 123	ND	U	444	2500			1
PCB 106	**1960**	J	429	2500	1.51	1.005	1
PCB 118	**34300**		428	2500	1.56	1.000	1
PCB 122	ND	U	505	2500			1
PCB 114	**967**	JK	430	2500	1.31	1.000	1
PCB 105	**12400**		435	1000	1.67	1.001	1
PCB 127	ND	U	490	5000			1
PCB 126	ND	U	395	2500			1
PCB 155	ND	U	339	5000			1
PCB 152	ND	U	142	5000			1
PCB 150	ND	U	137	5000			1
PCB 136	**10300**		149	1000	1.22	1.021	1
PCB 145	ND	U	138	5000			1
PCB 148	ND	U	195	5000			1
PCBs 135 + 151	**20200**		191	2500	1.25	1.094	1
PCB 154	ND	U	171	2500			1
PCB 144	**2450**	J	193	2500	1.21	1.110	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2010
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS1-PCBs	**Units:**	pg
Lab Code:	E1101017-004	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/11/11 1525
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142091	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142083

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	**52900**		178	2500	1.30	1.121	1
PCB 134	**2220**	JK	220	2500	1.03	1.126	1
PCB 143	ND	U	198	2500			1
PCBs 139 + 140	**497**	J	181	2500	1.19	1.138	1
PCB 131	**394**	JK	205	2500	0.95	1.144	1
PCB 142	ND	U	216	5000			1
PCB 132	**13800**		204	2500	1.24	1.158	1
PCB 133	**498**	JK	211	2500	0.98	1.173	1
PCB 165	ND	U	157	5000			1
PCB 146	**6240**		186	2500	1.25	0.893	1
PCB 161	ND	U	157	5000			1
PCBs 153 + 168	**45500**		162	2500	1.29	0.906	1
PCB 141	**10400**		197	1000	1.31	0.911	1
PCB 130	**1580**	J	239	2500	1.27	0.920	1
PCB 137	ND	U	210	5000			1
PCB 164	**1990**	JK	150	2500	1.53	0.928	1
PCBs 129 + 138 + 163	**38800**		194	2500	1.28	0.934	1
PCB 160	ND	U	157	2500			1
PCB 158	**3840**		150	1000	1.15	0.943	1
PCBs 128 + 166	**3680**		190	2500	1.19	0.962	1
PCB 159	**909**	J	208	5000	1.12	0.983	1
PCB 162	**296**	JK	188	5000	2.52	0.990	1
PCB 167	**1190**	J	164	2500	1.22	1.001	1
PCBs 156 + 157	**2530**	K	207	2500	1.44	1.000	1
PCB 169	ND	U	176	2500			1
PCB 188	ND	U	256	2500			1
PCB 179	**13000**		179	2500	0.97	1.008	1
PCB 184	ND	U	160	5000			1
PCB 176	**3760**	J	185	5000	1.09	1.031	1
PCB 186	ND	U	174	5000			1
PCB 178	**4530**		262	2500	1.02	1.077	1
PCB 175	**1260**	JK	249	5000	0.66	1.093	1
PCB 187	**22800**		227	2500	1.04	1.100	1
PCB 182	ND	U	243	5000			1
PCB 183	**13300**		301	5000	1.11	1.115	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2010
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS1-PCBs	**Units:**	pg
Lab Code:	E1101017-004	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/11/11 1525
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142091	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142083

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	**2360**	JK	336	5000	0.83	1.118	1
PCB 174	**17500**		344	2500	1.07	1.122	1
PCB 177	**8530**		362	2500	0.99	1.133	1
PCB 181	ND	U	326	5000			1
PCBs 171 + 173	**4970**	J	378	5000	1.05	1.148	1
PCB 172	**2540**	J	393	5000	1.06	0.904	1
PCB 192	ND	U	278	5000			1
PCBs 180 + 193	**27400**		312	2500	1.02	0.916	1
PCB 191	**529**	JK	292	5000	1.26	0.923	1
PCB 170	**7360**		405	2500	1.19	0.940	1
PCB 190	**1690**	JK	299	2500	1.29	0.951	1
PCB 189	ND	U	262	2500			1
PCB 202	**4910**	J	257	5000	0.95	1.000	1
PCB 201	**2180**	J	202	5000	0.84	1.021	1
PCB 204	ND	U	207	5000			1
PCB 197	**478**	J	190	5000	0.86	1.042	1
PCB 200	**1200**	J	211	5000	0.85	1.043	1
PCBs 198 + 199	**5620**		286	2500	0.92	1.107	1
PCB 196	**2630**	J	293	5000	0.95	0.921	1
PCB 203	**3160**	J	254	5000	0.93	0.924	1
PCB 195	**724**	JK	319	5000	0.71	0.949	1
PCB 194	**1450**	J	260	2500	0.98	0.991	1
PCB 205	ND	U	308	5000			1
PCB 208	**6820**		209	5000	0.74	1.000	1
PCB 207	**1080**	JK	157	5000	0.92	1.019	1
PCB 206	**2950**	J	204	5000	0.70	1.000	1
PCB 209	**11900**		197	2500	1.21	1.000	1
Total MonoCB	**18800**		82.9	1000			1
Total DiCB	**638000**		997	2500			1
Total TriCB	**1850000**		316	2500			1
Total TetraCB	**1110000**		138	2500			1
Total PentaCB	**268000**		175	5000			1
Total HexaCB	**220000**		137	5000			1
Total HeptaCB	**132000**		160	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2010
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS1-PCBs	**Units:**	pg
Lab Code:	E1101017-004	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/11/11 1525
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142091	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142083

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	**22400**		190	5000			1
Total NonaCB	**10900**		157	5000			1
Total PCBs	**4310000**		82.9	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2010
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS1-PCBs	**Units:**	Percent
Lab Code:	E1101017-004	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/11/11 1525
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142091	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142083

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	4291.985	43		15-150	3.07	0.744
PCB 3L	10000	5203.565	52		15-150	3.14	0.871
PCB 4L	10000	3120.837	31		25-150	1.49	0.886
PCB 15L	10000	7409.397	74		25-150	1.61	1.227
PCB 19L	10000	5407.980	54	K	25-150	0.86	1.065
PCB 37L	10000	10976.620	110		25-150	1.05	1.083
PCB 54L	10000	4186.524	42		25-150	0.83	0.829
PCB 81L	10000	8293.685	83		25-150	0.85	1.340
PCB 77L	10000	8344.472	83		25-150	0.83	1.360
PCB 104L	10000	5303.501	53		25-150	1.53	0.821
PCB 123L	10000	10103.515	101		25-150	1.68	1.137
PCB 118L	10000	9833.955	98		25-150	1.52	1.146
PCB 114L	10000	10289.572	103		25-150	1.65	1.162
PCB 105L	10000	10211.636	102		25-150	1.52	1.180
PCB 126L	10000	13499.811	135		25-150	1.54	1.270
PCB 155L	10000	4385.986	44		25-150	1.27	0.803
PCB 167L	10000	10735.009	107		25-150	1.33	1.071
PCBs 156L + 157L	20000	23332.052	117		25-150	1.30	1.099
PCB 169L	10000	12653.788	127		25-150	1.27	1.176
PCB 188L	10000	5719.267	57		25-150	1.08	0.730
PCB 189L	10000	9971.980	100		25-150	1.06	0.961
PCB 202L	10000	6000.973	60		25-150	0.96	0.829
PCB 205L	10000	6700.536	67		25-150	0.96	1.009
PCB 208L	10000	5741.874	57		25-150	0.79	0.952
PCB 206L	10000	10223.570	102		25-150	0.78	1.041
PCB 209L	10000	5754.750	58		25-150	1.19	1.071
PCB 28L	10000	11460.368	115		30-135	1.09	0.930
PCB 111L	10000	6809.952	68		30-135	1.54	1.079
PCB 178L	10000	5510.526	55		30-135	1.02	1.011
PCB 8L	10000	478.585	5	Y	25-150	1.58	0.855
PCB 70L	10000	7355.011	74	K	25-150	0.91	0.883

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2010
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS1-PCBs	**Units:**	pg
Lab Code:	E1101017-004	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	378	2500	1	0.0003	
PCB 77	**4450**	385	2500	1	0.0001	0.445
PCB 123	ND	444	2500	1	0.00003	
PCB 118	**34300**	428	2500	1	0.00003	1.03
PCB 114	**967**	430	2500	1	0.00003	0.0290
PCB 105	**12400**	435	1000	1	0.00003	0.372
PCB 126	ND	395	2500	1	0.1	
PCB 167	**1190**	164	2500	1	0.00003	0.0357
PCBs 156 + 157	**2530**	207	2500	1	0.00003	0.0759
PCB 169	ND	176	2500	1	0.03	
PCB 189	ND	262	2500	1	0.00003	
		Total TEQ				1.99

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2008
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS2-PCBs	**Units:**	pg
Lab Code:	E1101017-005	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/12/11 0934
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142095	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142093

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	**7080**		250	1000	3.12	1.000	1
PCB 2	**1480**		299	299	3.14	0.989	1
PCB 3	**6940**	B	359	1000	3.00	1.001	1
PCB 4	**96100**		22700	22700	1.45	1.002	1
PCB 10	ND	U	12700	12700			1
PCB 9	ND	U	5530	5530			1
PCB 7	ND	U	4880	4880			1
PCB 6	**41400**		5400	5400	1.37	1.158	1
PCB 5	ND	U	5410	5410			1
PCB 8	**252000**		5040	5040	1.50	1.186	1
PCB 14	ND	U	5550	5550			1
PCB 11	**76700**		5550	5550	1.64	0.972	1
PCBs 12 + 13	ND	U	5480	5480			1
PCB 15	**133000**		6230	6230	1.52	1.000	1
PCB 19	**28300**		2390	2390	1.05	1.001	1
PCBs 18 + 30	**161000**		1770	2500	0.99	1.103	1
PCB 17	**131000**		2080	2080	1.02	1.124	1
PCB 27	**21800**		1560	1560	1.01	1.136	1
PCB 24	ND	U	1520	1520			1
PCB 16	**150000**		2330	2330	0.99	1.148	1
PCB 32	**78800**		1450	1450	1.01	1.175	1
PCB 34	ND	U	1140	1140			1
PCB 23	ND	U	1090	1090			1
PCBs 26 + 29	**80900**		1110	1110	1.03	1.267	1
PCB 25	**38800**		1060	1060	1.03	0.839	1
PCB 31	**364000**		1080	2500	1.06	0.850	1
PCBs 20 + 28	**438000**		1120	2500	1.07	0.860	1
PCBs 21 + 33	**234000**		1180	1180	0.98	0.868	1
PCB 22	**152000**		1120	1120	1.06	0.882	1
PCB 36	ND	U	1140	1140			1
PCB 39	ND	U	1040	1040			1
PCB 38	ND	U	1280	1280			1
PCB 35	ND	U	1220	1220			1
PCB 37	**65300**	K	1380	2500	0.84	1.001	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2008
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS2-PCBs	**Units:**	pg
Lab Code:	E1101017-005	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/12/11 0934
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142095	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142093

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	ND	U	608	2500			1
PCBs 50 + 53	**34800**		561	1000	0.80	1.100	1
PCBs 45 + 51	**64900**		688	1000	0.77	1.131	1
PCB 46	**14600**		698	1000	0.81	1.145	1
PCB 52	**166000**	B	555	2500	0.78	1.211	1
PCBs 43 + 73	ND	U	514	2500			1
PCBs 49 + 69	**89800**		507	2500	0.80	1.233	1
PCB 48	**45600**		542	1000	0.82	1.246	1
PCBs 44 + 47 + 65	**137000**	B	527	2500	0.77	1.256	1
PCBs 59 + 62 + 75	**19300**		440	1000	0.75	1.272	1
PCB 42	**29300**		626	1000	0.83	1.280	1
PCBs 41 + 71 + 40	**84600**		575	2500	0.83	1.302	1
PCB 64	**44300**		431	1000	0.72	1.312	1
PCB 72	ND	U	431	2500			1
PCB 68	**1850**	J	398	2500	0.89	0.844	1
PCB 57	ND	U	459	2500			1
PCB 58	ND	U	433	2500			1
PCB 67	**2400**	J	432	2500	0.79	0.867	1
PCB 63	**1740**	JK	461	2500	1.04	0.874	1
PCBs 70 + 61 + 74 + 76	**122000**	B	455	2500	0.78	0.884	1
PCB 66	**53100**		487	2500	0.74	0.893	1
PCB 55	ND	U	491	2500			1
PCB 56	**25500**		606	1000	0.80	0.912	1
PCB 60	**14800**		599	2500	0.75	0.918	1
PCB 80	ND	U	580	2500			1
PCB 79	ND	U	631	2500			1
PCB 78	ND	U	695	2500			1
PCB 81	ND	U	762	2500			1
PCB 77	**3510**		816	2500	0.89	1.000	1
PCB 104	ND	U	393	2500			1
PCB 96	**618**	JK	307	2500	1.02	1.014	1
PCB 103	**391**	JK	372	2500	1.93	1.085	1
PCB 94	ND	U	417	2500			1
PCB 95	**61300**	B	397	2500	1.54	1.109	1
PCBs 93 + 100	ND	U	388	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2008
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS2-PCBs	**Units:**	pg
Lab Code:	E1101017-005	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/12/11 0934
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142095	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142093

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	**2030**	J	398	2500	1.40	1.121	1
PCBs 88 + 91	**9140**		411	2500	1.70	1.140	1
PCB 84	**13900**		469	2500	1.76	1.148	1
PCB 89	**786**	J	526	2500	1.41	1.166	1
PCB 121	ND	U	278	2500			1
PCB 92	**8530**		403	2500	1.71	0.864	1
PCBs 90 + 101 + 113	**62900**	B	348	5000	1.60	0.880	1
PCBs 83 + 99	**17600**	K	381	2500	1.96	0.895	1
PCB 112	ND	U	299	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	**30500**		340	2500	1.58	0.911	1
PCB 117	**1810**	K	309	1000	1.17	0.924	1
PCBs 85 + 116	**10600**	K	343	1000	1.27	0.927	1
PCBs 110 + 115	**39600**		293	5000	1.61	0.931	1
PCB 82	**4380**		479	2500	1.51	0.939	1
PCB 111	ND	U	282	5000			1
PCB 120	ND	U	301	2500			1
PCBs 108 + 124	ND	U	1240	5000			1
PCB 107	**1360**	J	1100	5000	1.70	0.998	1
PCB 123	ND	U	1270	2500			1
PCB 106	**2500**	K	1270	2500	1.16	1.005	1
PCB 118	**32500**		1340	2500	1.67	1.001	1
PCB 122	ND	U	1210	2500			1
PCB 114	ND	U	1190	2500			1
PCB 105	**8680**		1260	1260	1.56	1.000	1
PCB 127	ND	U	1190	5000			1
PCB 126	ND	U	1310	2500			1
PCB 155	ND	U	534	5000			1
PCB 152	ND	U	374	5000			1
PCB 150	ND	U	343	5000			1
PCB 136	**14400**		387	1000	1.38	1.022	1
PCB 145	ND	U	355	5000			1
PCB 148	ND	U	498	5000			1
PCBs 135 + 151	**35300**		496	2500	1.27	1.094	1
PCB 154	ND	U	421	2500			1
PCB 144	**4540**		502	2500	1.12	1.111	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2008
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS2-PCBs	**Units:**	pg
Lab Code:	E1101017-005	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/12/11 0934
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142095	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142093

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	**60400**		640	2500	1.26	1.122	1
PCB 134	**2790**	K	832	2500	1.47	1.128	1
PCB 143	ND	U	734	2500			1
PCBs 139 + 140	ND	U	670	2500			1
PCB 131	ND	U	784	2500			1
PCB 142	ND	U	804	5000			1
PCB 132	**15900**		646	2500	1.33	1.159	1
PCB 133	ND	U	689	2500			1
PCB 165	ND	U	507	5000			1
PCB 146	ND	U	593	2500			1
PCB 161	**6010**		512	5000	1.15	0.892	1
PCBs 153 + 168	**55700**		533	2500	1.24	0.906	1
PCB 141	**12500**		659	1000	1.31	0.910	1
PCB 130	**1560**	JK	764	2500	1.46	0.919	1
PCB 137	ND	U	648	5000			1
PCB 164	**2650**		530	2500	1.10	0.926	1
PCBs 129 + 138 + 163	**44600**		639	2500	1.15	0.933	1
PCB 160	ND	U	490	2500			1
PCB 158	**4250**		486	1000	1.39	0.942	1
PCBs 128 + 166	**3870**	K	608	2500	1.04	0.961	1
PCB 159	**740**	JK	582	5000	0.88	0.983	1
PCB 162	ND	U	548	5000			1
PCB 167	**1010**	J	557	2500	1.26	1.001	1
PCBs 156 + 157	**2410**	J	709	2500	1.25	1.000	1
PCB 169	ND	U	611	2500			1
PCB 188	ND	U	341	2500			1
PCB 179	**13600**		264	2500	1.00	1.009	1
PCB 184	ND	U	241	5000			1
PCB 176	**3730**	J	275	5000	1.09	1.032	1
PCB 186	ND	U	266	5000			1
PCB 178	**4590**		390	2500	1.03	1.079	1
PCB 175	ND	U	360	5000			1
PCB 187	**24000**		324	2500	1.00	1.102	1
PCB 182	ND	U	365	5000			1
PCB 183	**10900**		616	5000	0.94	1.117	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2008
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS2-PCBs	**Units:**	pg
Lab Code:	E1101017-005	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/12/11 0934
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142095	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142093

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	**3100**	J	686	5000	0.92	1.119	1
PCB 174	**15000**		723	2500	0.95	1.123	1
PCB 177	**7350**		746	2500	1.07	1.134	1
PCB 181	ND	U	656	5000			1
PCBs 171 + 173	**3070**	JK	759	5000	1.25	1.151	1
PCB 172	**1340**	JK	784	5000	0.72	0.903	1
PCB 192	ND	U	565	5000			1
PCBs 180 + 193	**22700**		620	2500	0.99	0.916	1
PCB 191	ND	U	582	5000			1
PCB 170	**5840**		827	2500	1.05	0.940	1
PCB 190	**835**	JK	620	2500	0.49	0.950	1
PCB 189	ND	U	620	2500			1
PCB 202	**2670**	JK	501	5000	1.16	1.001	1
PCB 201	**1630**	J	393	5000	0.93	1.021	1
PCB 204	ND	U	400	5000			1
PCB 197	**375**	JK	356	5000	1.13	1.042	1
PCB 200	**875**	J	413	5000	0.92	1.044	1
PCBs 198 + 199	**4380**		560	2500	0.84	1.107	1
PCB 196	**1650**	JK	575	5000	1.20	0.921	1
PCB 203	**2240**	J	495	5000	0.85	0.924	1
PCB 195	ND	U	620	5000			1
PCB 194	**1260**	JK	629	2500	0.60	0.991	1
PCB 205	ND	U	615	5000			1
PCB 208	**5170**		563	5000	0.82	1.001	1
PCB 207	**846**	JK	499	5000	0.96	1.018	1
PCB 206	**2160**	J	539	5000	0.85	1.000	1
PCB 209	**10800**		659	2500	1.12	1.000	1
Total MonoCB	**15500**		250	1000			1
Total DiCB	**599000**		4880	4880			1
Total TriCB	**1940000**		1040	2500			1
Total TetraCB	**955000**		398	2500			1
Total PentaCB	**279000**		278	5000			1
Total HexaCB	**269000**		343	5000			1
Total HeptaCB	**116000**		241	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2008
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS2-PCBs	**Units:**	pg
Lab Code:	E1101017-005	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/12/11 0934
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142095	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142093

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	**15100**		356	5000			1
Total NonaCB	**8170**		499	5000			1
Total PCBs	**4240000**		241	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2008
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS2-PCBs	**Units:**	Percent
Lab Code:	E1101017-005	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/12/11 0934
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142095	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142093

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	5796.770	58		15-150	2.99	0.745
PCB 3L	10000	6629.479	66		15-150	2.80	0.872
PCB 4L	10000	5214.712	52		25-150	1.58	0.885
PCB 15L	10000	7376.671	74		25-150	1.55	1.226
PCB 19L	10000	6948.375	69		25-150	1.12	1.065
PCB 37L	10000	7367.315	74		25-150	1.02	1.083
PCB 54L	10000	5356.467	54		25-150	0.78	0.827
PCB 81L	10000	7472.104	75		25-150	0.83	1.337
PCB 77L	10000	7425.031	74		25-150	0.86	1.358
PCB 104L	10000	5803.308	58		25-150	1.64	0.823
PCB 123L	10000	8621.239	86		25-150	1.54	1.138
PCB 118L	10000	7889.379	79	K	25-150	1.81	1.148
PCB 114L	10000	8843.388	88		25-150	1.71	1.164
PCB 105L	10000	8691.607	87		25-150	1.53	1.182
PCB 126L	10000	9890.650	99		25-150	1.72	1.274
PCB 155L	10000	4331.525	43		25-150	1.28	0.801
PCB 167L	10000	7542.214	75		25-150	1.21	1.072
PCBs 156L + 157L	20000	15724.567	79		25-150	1.40	1.100
PCB 169L	10000	8644.318	86		25-150	1.25	1.177
PCB 188L	10000	5624.468	56		25-150	1.06	0.729
PCB 189L	10000	7865.494	79		25-150	0.98	0.962
PCB 202L	10000	6470.940	65		25-150	0.94	0.828
PCB 205L	10000	6571.621	66		25-150	0.92	1.009
PCB 208L	10000	6320.734	63		25-150	0.79	0.952
PCB 206L	10000	8381.126	84		25-150	0.83	1.042
PCB 209L	10000	5818.044	58		25-150	1.17	1.071
PCB 28L	10000	8167.953	82		30-135	1.19	0.932
PCB 111L	10000	7033.710	70		30-135	1.59	1.080
PCB 178L	10000	6208.262	62		30-135	1.16	1.011
PCB 8L	10000	670.922	7	KY	25-150	1.22	0.855
PCB 70L	10000	9797.388	98		25-150	0.82	0.883

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2008
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4CS-CS2-PCBs	**Units:**	pg
Lab Code:	E1101017-005	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	762	2500	1	0.0003	
PCB 77	**3510**	816	2500	1	0.0001	0.351
PCB 123	ND	1270	2500	1	0.00003	
PCB 118	**32500**	1340	2500	1	0.00003	0.975
PCB 114	ND	1190	2500	1	0.00003	
PCB 105	**8680**	1260	1260	1	0.00003	0.260
PCB 126	ND	1310	2500	1	0.1	
PCB 167	**1010**	557	2500	1	0.00003	0.0303
PCBs 156 + 157	**2410**	709	2500	1	0.00003	0.0723
PCB 169	ND	611	2500	1	0.03	
PCB 189	ND	620	2500	1	0.00003	
		Total TEQ				1.69

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2043
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA1-PCBs	**Units:**	pg
Lab Code:	E1101017-006	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/21/11 1641
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142152	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142149

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	**2220**		193	1000	2.78	1.001	1
PCB 2	**2500**		221	221	2.90	0.988	1
PCB 3	**6930**	B	204	1000	3.03	1.001	1
PCB 4	**16900**	K	6010	6010	1.10	1.001	1
PCB 10	ND	U	3000	3000			1
PCB 9	ND	U	7040	7040			1
PCB 7	ND	U	7220	7220			1
PCB 6	ND	U	6960	6960			1
PCB 5	ND	U	8110	8110			1
PCB 8	**72100**		6710	6710	1.36	1.185	1
PCB 14	ND	U	7040	7040			1
PCB 11	**257000**		7520	7520	1.44	0.975	1
PCBs 12 + 13	ND	U	8020	8020			1
PCB 15	**38000**	K	7210	7210	1.23	1.001	1
PCB 19	**14000**		1250	1250	1.05	1.001	1
PCBs 18 + 30	**55200**		737	2500	1.00	1.105	1
PCB 17	**64700**		930	1000	1.02	1.127	1
PCB 27	**9270**		610	1000	1.05	1.137	1
PCB 24	**15100**		684	1000	0.99	1.145	1
PCB 16	**71900**		1160	1160	1.06	1.149	1
PCB 32	**44400**		589	1000	1.01	1.177	1
PCB 34	ND	U	1010	1010			1
PCB 23	ND	U	1090	1090			1
PCBs 26 + 29	**33400**		1010	1010	1.00	1.267	1
PCB 25	**15700**		985	1000	1.12	0.839	1
PCB 31	**161000**		956	2500	1.03	0.850	1
PCBs 20 + 28	**181000**		1050	2500	1.01	0.860	1
PCBs 21 + 33	**147000**		1040	1040	0.98	0.868	1
PCB 22	**81200**		1150	1150	1.02	0.883	1
PCB 36	ND	U	836	1000			1
PCB 39	ND	U	929	1000			1
PCB 38	ND	U	989	1000			1
PCB 35	ND	U	1010	1010			1
PCB 37	**36300**		966	2500	0.97	1.001	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2043
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA1-PCBs	**Units:**	pg
Lab Code:	E1101017-006	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/21/11 1641
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142152	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142149

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	**613**	JK	246	2500	0.61	1.001	1
PCBs 50 + 53	**26700**		321	1000	0.74	1.098	1
PCBs 45 + 51	**41700**		325	1000	0.76	1.129	1
PCB 46	**12000**		384	1000	0.87	1.144	1
PCB 52	**133000**	B	304	2500	0.77	1.209	1
PCBs 43 + 73	**4580**		305	2500	0.79	1.219	1
PCBs 49 + 69	**66800**		272	2500	0.78	1.231	1
PCB 48	**45600**		321	1000	0.78	1.244	1
PCBs 44 + 47 + 65	**122000**	B	297	2500	0.76	1.254	1
PCBs 59 + 62 + 75	**17600**		243	1000	0.70	1.270	1
PCB 42	**31600**		335	1000	0.81	1.279	1
PCBs 41 + 71 + 40	**58600**		319	2500	0.80	1.301	1
PCB 64	**46300**		236	1000	0.76	1.311	1
PCB 72	ND	U	232	2500			1
PCB 68	**731**	J	243	2500	0.73	0.845	1
PCB 57	**357**	JK	245	2500	0.61	0.856	1
PCB 58	ND	U	266	2500			1
PCB 67	**2920**		254	2500	0.78	0.867	1
PCB 63	**2920**		244	2500	0.72	0.875	1
PCBs 70 + 61 + 74 + 76	**131000**	B	259	2500	0.78	0.884	1
PCB 66	**49900**		251	2500	0.78	0.893	1
PCB 55	**1090**	J	278	2500	0.67	0.897	1
PCB 56	**4040**		415	1000	0.86	0.908	1
PCB 60	**20500**		405	2500	0.79	0.918	1
PCB 80	ND	U	365	2500			1
PCB 79	ND	U	365	2500			1
PCB 78	ND	U	410	2500			1
PCB 81	ND	U	413	2500			1
PCB 77	**1170**	JK	424	2500	0.59	1.000	1
PCB 104	ND	U	215	2500			1
PCB 96	ND	U	136	2500			1
PCB 103	ND	U	162	2500			1
PCB 94	ND	U	201	2500			1
PCB 95	**16200**	B	180	2500	1.52	1.109	1
PCBs 93 + 100	ND	U	185	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2043
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA1-PCBs	**Units:**	pg
Lab Code:	E1101017-006	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/21/11 1641
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142152	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142149

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	**1230**	J	189	2500	1.71	1.122	1
PCBs 88 + 91	**552**	J	188	2500	1.54	1.137	1
PCB 84	**6180**		219	2500	1.66	1.149	1
PCB 89	**386**	JK	196	2500	0.99	1.166	1
PCB 121	ND	U	247	2500			1
PCB 92	**3390**		328	2500	1.32	0.865	1
PCBs 90 + 101 + 113	**22600**	B	298	5000	1.64	0.880	1
PCBs 83 + 99	**11700**		331	2500	1.56	0.896	1
PCB 112	ND	U	260	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	**5700**	K	291	2500	3.61	0.911	1
PCB 117	ND	U	277	1000			1
PCBs 85 + 116	**5270**		287	1000	1.41	0.927	1
PCBs 110 + 115	**12600**		258	5000	1.57	0.931	1
PCB 82	**2030**	J	388	2500	1.57	0.939	1
PCB 111	ND	U	257	5000			1
PCB 120	ND	U	246	2500			1
PCBs 108 + 124	ND	U	270	5000			1
PCB 107	ND	U	260	5000			1
PCB 123	ND	U	269	2500			1
PCB 106	ND	U	248	2500			1
PCB 118	**6250**		263	2500	1.49	1.001	1
PCB 122	ND	U	294	2500			1
PCB 114	ND	U	270	2500			1
PCB 105	**2010**		284	1000	1.56	1.001	1
PCB 127	ND	U	279	5000			1
PCB 126	ND	U	370	2500			1
PCB 155	ND	U	203	5000			1
PCB 152	ND	U	123	5000			1
PCB 150	ND	U	130	5000			1
PCB 136	**1350**	K	126	1000	1.44	1.022	1
PCB 145	ND	U	137	5000			1
PCB 148	ND	U	167	5000			1
PCBs 135 + 151	**3540**		175	2500	1.24	1.093	1
PCB 154	ND	U	157	2500			1
PCB 144	**336**	JK	170	2500	1.84	1.111	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2043
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA1-PCBs	**Units:**	pg
Lab Code:	E1101017-006	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/21/11 1641
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142152	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142149

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	**7020**		235	2500	1.16	1.121	1
PCB 134	ND	U	300	2500			1
PCB 143	ND	U	229	2500			1
PCBs 139 + 140	ND	U	243	2500			1
PCB 131	ND	U	264	2500			1
PCB 142	ND	U	266	5000			1
PCB 132	**1670**	J	284	2500	1.08	1.158	1
PCB 133	ND	U	252	2500			1
PCB 165	ND	U	209	5000			1
PCB 146	**555**	J	233	2500	1.19	0.892	1
PCB 161	ND	U	190	5000			1
PCBs 153 + 168	**4260**		204	2500	1.16	0.906	1
PCB 141	**1020**	K	264	1000	1.44	0.910	1
PCB 130	ND	U	281	2500			1
PCB 137	ND	U	283	5000			1
PCB 164	ND	U	200	2500			1
PCBs 129 + 138 + 163	**3340**		248	2500	1.18	0.934	1
PCB 160	ND	U	212	2500			1
PCB 158	ND	U	195	1000			1
PCBs 128 + 166	ND	U	240	2500			1
PCB 159	ND	U	329	5000			1
PCB 162	ND	U	331	5000			1
PCB 167	ND	U	286	2500			1
PCBs 156 + 157	ND	U	374	2500			1
PCB 169	ND	U	356	2500			1
PCB 188	ND	U	160	2500			1
PCB 179	**943**	JK	117	2500	1.25	1.009	1
PCB 184	ND	U	120	5000			1
PCB 176	**348**	J	122	5000	1.01	1.031	1
PCB 186	ND	U	132	5000			1
PCB 178	**256**	J	171	2500	1.16	1.078	1
PCB 175	ND	U	164	5000			1
PCB 187	**1330**	J	158	2500	0.98	1.101	1
PCB 182	ND	U	196	5000			1
PCB 183	**555**	JK	288	5000	1.45	1.117	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2043
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA1-PCBs	**Units:**	pg
Lab Code:	E1101017-006	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/21/11 1641
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142152	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142149

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	ND	U	389	5000			1
PCB 174	**756**	J	333	2500	1.16	1.123	1
PCB 177	**489**	JK	346	2500	1.36	1.134	1
PCB 181	ND	U	348	5000			1
PCBs 171 + 173	ND	U	368	5000			1
PCB 172	ND	U	379	5000			1
PCB 192	ND	U	306	5000			1
PCBs 180 + 193	**756**	J	320	2500	1.07	0.916	1
PCB 191	ND	U	287	5000			1
PCB 170	ND	U	398	2500			1
PCB 190	ND	U	305	2500			1
PCB 189	ND	U	316	2500			1
PCB 202	ND	U	200	5000			1
PCB 201	ND	U	149	5000			1
PCB 204	ND	U	151	5000			1
PCB 197	ND	U	152	5000			1
PCB 200	ND	U	164	5000			1
PCBs 198 + 199	ND	U	227	2500			1
PCB 196	ND	U	225	5000			1
PCB 203	ND	U	212	5000			1
PCB 195	ND	U	242	5000			1
PCB 194	ND	U	241	2500			1
PCB 205	ND	U	261	5000			1
PCB 208	ND	U	246	5000			1
PCB 207	ND	U	191	5000			1
PCB 206	ND	U	631	5000			1
PCB 209	**6810**	K	456	2500	1.35	1.000	1
Total MonoCB	**11600**		193	1000			1
Total DiCB	**384000**		3000	3000			1
Total TriCB	**930000**		589	2500			1
Total TetraCB	**822000**		232	2500			1
Total PentaCB	**90300**		136	5000			1
Total HexaCB	**23100**		123	5000			1
Total HeptaCB	**5430**		117	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2043
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA1-PCBs	**Units:**	pg
Lab Code:	E1101017-006	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/21/11 1641
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142152	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142149

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	ND	U	149	5000			1
Total NonaCB	ND	U	191	5000			1
Total PCBs	**2280000**		117	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2043
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA1-PCBs	**Units:**	Percent
Lab Code:	E1101017-006	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/21/11 1641
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142152	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142149

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	5802.640	58		15-150	2.92	0.745
PCB 3L	10000	6259.915	63		15-150	3.06	0.872
PCB 4L	10000	6791.747	68		25-150	1.62	0.886
PCB 15L	10000	7157.778	72		25-150	1.54	1.225
PCB 19L	10000	8717.958	87		25-150	1.02	1.064
PCB 37L	10000	5577.561	56		25-150	1.11	1.083
PCB 54L	10000	4800.355	48		25-150	0.81	0.828
PCB 81L	10000	6143.554	61		25-150	0.80	1.337
PCB 77L	10000	6268.045	63		25-150	0.80	1.358
PCB 104L	10000	5072.166	51		25-150	1.58	0.823
PCB 123L	10000	5749.961	57		25-150	1.48	1.137
PCB 118L	10000	5440.909	54		25-150	1.65	1.147
PCB 114L	10000	5641.567	56		25-150	1.62	1.163
PCB 105L	10000	5532.457	55		25-150	1.56	1.181
PCB 126L	10000	5270.158	53		25-150	1.41	1.273
PCB 155L	10000	4947.968	49		25-150	1.27	0.802
PCB 167L	10000	5265.319	53		25-150	1.33	1.072
PCBs 156L + 157L	20000	11510.449	58		25-150	1.29	1.099
PCB 169L	10000	6279.816	63		25-150	1.26	1.177
PCB 188L	10000	6178.040	62		25-150	1.01	0.729
PCB 189L	10000	6667.937	67		25-150	1.05	0.962
PCB 202L	10000	6107.596	61		25-150	0.85	0.828
PCB 205L	10000	6083.399	61		25-150	0.93	1.009
PCB 208L	10000	6164.187	62		25-150	0.79	0.952
PCB 206L	10000	6694.758	67		25-150	0.80	1.041
PCB 209L	10000	5138.749	51		25-150	1.23	1.071
PCB 28L	10000	6048.116	60		30-135	1.10	0.931
PCB 111L	10000	6186.437	62		30-135	1.54	1.079
PCB 178L	10000	5760.758	58		30-135	1.06	1.010
PCB 8L	10000	936.050	9	Y	25-150	1.33	0.855
PCB 70L	10000	8515.777	85		25-150	0.82	0.884

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2043
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA1-PCBs	**Units:**	pg
Lab Code:	E1101017-006	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	413	2500	1	0.0003	
PCB 77	**1170**	424	2500	1	0.0001	0.117
PCB 123	ND	269	2500	1	0.00003	
PCB 118	**6250**	263	2500	1	0.00003	0.188
PCB 114	ND	270	2500	1	0.00003	
PCB 105	**2010**	284	1000	1	0.00003	0.0603
PCB 126	ND	370	2500	1	0.1	
PCB 167	ND	286	2500	1	0.00003	
PCBs 156 + 157	ND	374	2500	1	0.00003	
PCB 169	ND	356	2500	1	0.03	
PCB 189	ND	316	2500	1	0.00003	
		Total TEQ				0.365

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2045
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA2-PCBs	**Units:**	pg
Lab Code:	E1101017-007	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1138
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142067	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	ND	U	2180	2180			1
PCB 2	ND	U	1530	1530			1
PCB 3	**8250**	B	810	1000	3.28	0.996	1
PCB 4	ND	U	5430	5430			1
PCB 10	ND	U	1450	1450			1
PCB 9	**5030**		3000	3000	1.42	1.160	1
PCB 7	**4290**		2720	2720	1.51	1.165	1
PCB 6	**26500**		2840	2840	1.50	1.171	1
PCB 5	ND	U	2980	2980			1
PCB 8	**96100**		2720	2720	1.64	1.188	1
PCB 14	ND	U	2730	2730			1
PCB 11	**352000**		3160	3160	1.59	0.981	1
PCBs 12 + 13	**10300**		2920	2920	1.60	0.989	1
PCB 15	**45300**		1050	2500	1.61	1.000	1
PCB 19	**20500**		1420	1420	1.05	1.001	1
PCBs 18 + 30	**57300**		4880	4880	0.93	1.102	1
PCB 17	**62800**		5610	5610	1.03	1.116	1
PCB 27	**12000**		4250	4250	0.99	1.123	1
PCB 24	**57500**		4140	4140	1.03	1.133	1
PCB 16	ND	U	6290	6290			1
PCB 32	**39200**		3980	3980	1.03	1.160	1
PCB 34	ND	U	7050	7050			1
PCB 23	ND	U	6450	6450			1
PCBs 26 + 29	**19400**		6620	6620	1.08	1.245	1
PCB 25	**20800**		6300	6300	0.98	0.824	1
PCB 31	**89000**		6660	6660	0.98	0.834	1
PCBs 20 + 28	**143000**		6450	6450	0.98	0.845	1
PCBs 21 + 33	**104000**		6780	6780	0.96	0.853	1
PCB 22	**57800**		6860	6860	0.90	0.866	1
PCB 36	ND	U	6940	6940			1
PCB 39	ND	U	6210	6210			1
PCB 38	ND	U	7460	7460			1
PCB 35	ND	U	7750	7750			1
PCB 37	**22200**		11500	11500	0.99	1.001	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2045
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA2-PCBs	**Units:**	pg
Lab Code:	E1101017-007	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1138
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142067	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	**479**	J	333	2500	0.66	1.002	1
PCBs 50 + 53	**14200**		389	1000	0.83	1.096	1
PCBs 45 + 51	ND	U	400	1000			1
PCB 46	ND	U	468	1000			1
PCB 52	**82200**	B	400	2500	0.88	1.209	1
PCBs 43 + 73	ND	U	327	2500			1
PCBs 49 + 69	**76000**		347	2500	0.76	1.226	1
PCB 48	ND	U	371	1000			1
PCBs 44 + 47 + 65	**116000**	B	353	2500	0.78	1.250	1
PCBs 59 + 62 + 75	**25100**		303	1000	0.77	1.270	1
PCB 42	ND	U	427	1000			1
PCBs 41 + 71 + 40	ND	U	395	2500			1
PCB 64	ND	U	299	1000			1
PCB 72	ND	U	307	2500			1
PCB 68	ND	U	279	2500			1
PCB 57	ND	U	325	2500			1
PCB 58	ND	U	302	2500			1
PCB 67	ND	U	297	2500			1
PCB 63	ND	U	316	2500			1
PCBs 70 + 61 + 74 + 76	**13700**	BK	308	2500	0.93	0.885	1
PCB 66	**42200**		329	2500	0.80	0.893	1
PCB 55	ND	U	322	2500			1
PCB 56	ND	U	738	1000			1
PCB 60	**34200**		734	2500	0.70	0.918	1
PCB 80	ND	U	686	2500			1
PCB 79	ND	U	725	2500			1
PCB 78	ND	U	802	2500			1
PCB 81	ND	U	742	2500			1
PCB 77	**797**	JK	694	2500	0.64	1.000	1
PCB 104	ND	U	668	2500			1
PCB 96	ND	U	153	2500			1
PCB 103	ND	U	185	2500			1
PCB 94	ND	U	205	2500			1
PCB 95	**8670**	B	193	2500	1.43	1.109	1
PCBs 93 + 100	ND	U	192	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2045
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA2-PCBs	**Units:**	pg
Lab Code:	E1101017-007	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1138
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142067	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	ND	U	194	2500			1
PCBs 88 + 91	**420**	JK	199	2500	2.19	1.139	1
PCB 84	ND	U	230	2500			1
PCB 89	ND	U	217	2500			1
PCB 121	ND	U	2340	2500			1
PCB 92	ND	U	3430	3430			1
PCBs 90 + 101 + 113	**16100**	B	2990	5000	1.53	0.890	1
PCBs 83 + 99	**7580**		3270	3270	1.49	0.904	1
PCB 112	ND	U	2520	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	**8960**		2900	2900	1.68	0.916	1
PCB 117	ND	U	2460	2460			1
PCBs 85 + 116	**4720**		2880	2880	1.77	0.933	1
PCBs 110 + 115	**6370**		2420	5000	1.65	0.937	1
PCB 82	ND	U	3760	3760			1
PCB 111	ND	U	2370	5000			1
PCB 120	ND	U	2570	2570			1
PCBs 108 + 124	ND	U	942	5000			1
PCB 107	ND	U	912	5000			1
PCB 123	ND	U	603	2500			1
PCB 106	ND	U	969	2500			1
PCB 118	**7090**		427	2500	1.51	1.000	1
PCB 122	ND	U	1050	2500			1
PCB 114	ND	U	353	2500			1
PCB 105	**2050**		577	1000	1.58	1.000	1
PCB 127	ND	U	1050	5000			1
PCB 126	ND	U	395	2500			1
PCB 155	ND	U	418	5000			1
PCB 152	ND	U	89.0	5000			1
PCB 150	**96.6**	JK	83.2	5000	1.73	1.013	1
PCB 136	**592**	J	92.5	1000	1.38	1.019	1
PCB 145	ND	U	85.2	5000			1
PCB 148	ND	U	118	5000			1
PCBs 135 + 151	**1530**	JK	117	2500	1.49	1.085	1
PCB 154	ND	U	103	2500			1
PCB 144	ND	U	118	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2045
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA2-PCBs	**Units:**	pg
Lab Code:	E1101017-007	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1138
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142067	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	**3150**		152	2500	1.31	1.110	1
PCB 134	ND	U	198	2500			1
PCB 143	ND	U	166	2500			1
PCBs 139 + 140	ND	U	154	2500			1
PCB 131	ND	U	180	2500			1
PCB 142	ND	U	188	5000			1
PCB 132	**800**	JK	172	2500	1.50	1.143	1
PCB 133	ND	U	184	2500			1
PCB 165	ND	U	133	5000			1
PCB 146	**384**	J	152	2500	1.05	0.896	1
PCB 161	ND	U	123	5000			1
PCBs 153 + 168	**2880**		131	2500	1.25	0.909	1
PCB 141	**487**	J	162	1000	1.31	0.912	1
PCB 130	ND	U	204	2500			1
PCB 137	ND	U	175	5000			1
PCB 164	ND	U	134	2500			1
PCBs 129 + 138 + 163	**2200**	J	163	2500	1.25	0.936	1
PCB 160	ND	U	137	2500			1
PCB 158	**300**	J	128	1000	1.36	0.944	1
PCBs 128 + 166	ND	U	160	2500			1
PCB 159	ND	U	180	5000			1
PCB 162	ND	U	158	5000			1
PCB 167	ND	U	113	2500			1
PCBs 156 + 157	**235**	J	129	2500	1.19	1.000	1
PCB 169	ND	U	111	2500			1
PCB 188	ND	U	138	2500			1
PCB 179	ND	U	79.4	2500			1
PCB 184	**958**	J	67.5	5000	1.02	1.008	1
PCB 176	ND	U	79.2	5000			1
PCB 186	ND	U	75.3	5000			1
PCB 178	**175**	JK	113	2500	1.30	1.074	1
PCB 175	ND	U	108	5000			1
PCB 187	**831**	JK	94.0	2500	1.81	1.095	1
PCB 182	ND	U	104	5000			1
PCB 183	**1070**	J	203	5000	0.98	1.112	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2045
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA2-PCBs	**Units:**	pg
Lab Code:	E1101017-007	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1138
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142067	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	**363**	JK	203	5000	0.81	1.114	1
PCB 174	**743**	JK	214	2500	0.86	1.117	1
PCB 177	ND	U	224	2500			1
PCB 181	ND	U	203	5000			1
PCBs 171 + 173	ND	U	236	5000			1
PCB 172	ND	U	248	5000			1
PCB 192	ND	U	180	5000			1
PCBs 180 + 193	**1290**	J	197	2500	1.03	0.916	1
PCB 191	ND	U	182	5000			1
PCB 170	**349**	JK	263	2500	0.82	0.941	1
PCB 190	ND	U	193	2500			1
PCB 189	ND	U	123	2500			1
PCB 202	ND	U	155	5000			1
PCB 201	ND	U	103	5000			1
PCB 204	ND	U	106	5000			1
PCB 197	ND	U	98.3	5000			1
PCB 200	ND	U	103	5000			1
PCBs 198 + 199	ND	U	148	2500			1
PCB 196	ND	U	152	5000			1
PCB 203	ND	U	127	5000			1
PCB 195	ND	U	167	5000			1
PCB 194	ND	U	164	2500			1
PCB 205	ND	U	127	5000			1
PCB 208	ND	U	85.4	5000			1
PCB 207	ND	U	65.9	5000			1
PCB 206	ND	U	82.9	5000			1
PCB 209	**180**	JK	82.1	2500	1.38	1.000	1
Total MonoCB	**8250**		810	1000			1
Total DiCB	**540000**		1050	2500			1
Total TriCB	**706000**		1420	2500			1
Total TetraCB	**405000**		279	2500			1
Total PentaCB	**53000**		153	5000			1
Total HexaCB	**12600**		83.2	5000			1
Total HeptaCB	**5780**		67.5	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2045
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA2-PCBs	**Units:**	pg
Lab Code:	E1101017-007	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1138
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142067	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	ND	U	98.3	5000			1
Total NonaCB	ND	U	65.9	5000			1
Total PCBs	**1740000**		65.9	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2045
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA2-PCBs	**Units:**	Percent
Lab Code:	E1101017-007	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1138
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142067	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	6745.524	67		15-150	3.52	0.715
PCB 3L	10000	11565.669	116		15-150	3.27	0.853
PCB 4L	10000	5253.036	53		25-150	1.58	0.862
PCB 15L	10000	9059.206	91		25-150	1.58	1.178
PCB 19L	10000	4494.295	45		25-150	1.11	1.038
PCB 37L	10000	9104.750	91		25-150	1.17	1.101
PCB 54L	10000	4168.608	42		25-150	0.79	0.829
PCB 81L	10000	8135.469	81		25-150	0.83	1.341
PCB 77L	10000	8934.813	89		25-150	0.82	1.360
PCB 104L	10000	5112.690	51		25-150	1.58	0.827
PCB 123L	10000	7953.325	80		25-150	1.60	1.124
PCB 118L	10000	8818.494	88		25-150	1.58	1.132
PCB 114L	10000	10808.104	108		25-150	1.61	1.146
PCB 105L	10000	7773.590	78		25-150	1.65	1.163
PCB 126L	10000	15508.971	155	Y	25-150	1.62	1.248
PCB 155L	10000	4452.452	45		25-150	1.32	0.816
PCB 167L	10000	15836.524	158	Y	25-150	1.31	1.069
PCBs 156L + 157L	20000	31343.695	157	Y	25-150	1.28	1.096
PCB 169L	10000	17210.617	172	Y	25-150	1.26	1.173
PCB 188L	10000	4292.323	43		25-150	1.07	0.734
PCB 189L	10000	9465.076	95		25-150	1.07	0.961
PCB 202L	10000	6374.776	64		25-150	0.91	0.829
PCB 205L	10000	6975.508	70		25-150	0.94	1.009
PCB 208L	10000	6168.099	62		25-150	0.86	0.952
PCB 206L	10000	9299.303	93		25-150	0.76	1.041
PCB 209L	10000	6549.596	65		25-150	1.24	1.071
PCB 28L	10000	8275.873	83		30-135	1.03	0.928
PCB 111L	10000	7437.024	74		30-135	1.62	1.072
PCB 178L	10000	8006.392	80		30-135	1.02	1.010
PCB 8L	10000	687.989	7	Y	25-150	1.49	0.869
PCB 70L	10000	0	0	Y	25-150		

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2045
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-IA2-PCBs	**Units:**	pg
Lab Code:	E1101017-007	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	742	2500	1	0.0003	
PCB 77	**797**	694	2500	1	0.0001	0.0797
PCB 123	ND	603	2500	1	0.00003	
PCB 118	**7090**	427	2500	1	0.00003	0.213
PCB 114	ND	353	2500	1	0.00003	
PCB 105	**2050**	577	1000	1	0.00003	0.0615
PCB 126	ND	395	2500	1	0.1	
PCB 167	ND	113	2500	1	0.00003	
PCBs 156 + 157	**235**	129	2500	1	0.00003	0.00705
PCB 169	ND	111	2500	1	0.03	
PCB 189	ND	123	2500	1	0.00003	
		Total TEQ				0.361

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2034
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA1-PCBs	**Units:**	pg
Lab Code:	E1101017-008	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1246
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142068	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	**292**	JK	79.2	1000	3.76	1.001	1
PCB 2	ND	U	108	108			1
PCB 3	ND	U	106	1000			1
PCB 4	ND	U	3460	3460			1
PCB 10	ND	U	956	956			1
PCB 9	ND	U	1080	1080			1
PCB 7	ND	U	969	969			1
PCB 6	ND	U	1020	1020			1
PCB 5	ND	U	1070	1070			1
PCB 8	ND	U	971	2500			1
PCB 14	ND	U	975	975			1
PCB 11	ND	U	1130	1130			1
PCBs 12 + 13	**2120**	K	1050	1050	0.95	0.989	1
PCB 15	**1220**	J	229	2500	1.58	1.001	1
PCB 19	ND	U	722	722			1
PCBs 18 + 30	ND	U	361	2500			1
PCB 17	ND	U	415	1000			1
PCB 27	ND	U	315	1000			1
PCB 24	ND	U	306	1000			1
PCB 16	**1290**		466	500	1.10	1.141	1
PCB 32	ND	U	294	1000			1
PCB 34	ND	U	600	1000			1
PCB 23	ND	U	549	1000			1
PCBs 26 + 29	**1240**		563	1000	1.04	1.253	1
PCB 25	**555**	J	535	1000	1.01	0.840	1
PCB 31	**6390**		566	2500	1.03	0.851	1
PCBs 20 + 28	**6790**		548	2500	1.06	0.862	1
PCBs 21 + 33	**3850**		577	1000	1.06	0.870	1
PCB 22	**2730**		583	1000	1.05	0.883	1
PCB 36	ND	U	589	1000			1
PCB 39	ND	U	528	1000			1
PCB 38	ND	U	634	1000			1
PCB 35	ND	U	659	1000			1
PCB 37	**683**	JK	441	2500	0.71	1.001	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2034
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA1-PCBs	**Units:**	pg
Lab Code:	E1101017-008	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1246
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142068	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	ND	U	109	2500			1
PCBs 50 + 53	**956**	J	69.0	1000	0.81	1.088	1
PCBs 45 + 51	**1090**		71.0	1000	0.75	1.118	1
PCB 46	**328**	J	83.0	1000	0.72	1.131	1
PCB 52	**6290**	B	70.9	2500	0.77	1.196	1
PCBs 43 + 73	**65.8**	JK	57.9	2500	0.54	1.206	1
PCBs 49 + 69	**2290**	J	61.5	2500	0.75	1.217	1
PCB 48	**725**	J	65.7	1000	0.65	1.231	1
PCBs 44 + 47 + 65	**4040**	B	62.6	2500	0.77	1.240	1
PCBs 59 + 62 + 75	**441**	J	53.7	1000	0.87	1.254	1
PCB 42	**912**	J	75.8	1000	0.74	1.264	1
PCBs 41 + 71 + 40	**2320**	J	70.0	2500	0.86	1.286	1
PCB 64	**1570**		53.1	1000	0.76	1.296	1
PCB 72	ND	U	54.4	2500			1
PCB 68	ND	U	49.5	2500			1
PCB 57	ND	U	57.7	2500			1
PCB 58	ND	U	53.6	2500			1
PCB 67	ND	U	52.7	2500			1
PCB 63	**72.4**	JK	56.0	2500	0.94	0.874	1
PCBs 70 + 61 + 74 + 76	**3860**	B	54.6	2500	0.80	0.883	1
PCB 66	**1640**	JK	58.4	2500	0.90	0.893	1
PCB 55	ND	U	57.0	2500			1
PCB 56	**1410**		55.1	1000	0.89	0.912	1
PCB 60	**755**	J	54.9	2500	0.80	0.918	1
PCB 80	ND	U	51.3	2500			1
PCB 79	ND	U	54.2	2500			1
PCB 78	ND	U	59.9	2500			1
PCB 81	ND	U	65.4	2500			1
PCB 77	**142**	J	66.8	2500	0.81	1.001	1
PCB 104	ND	U	42.3	2500			1
PCB 96	ND	U	23.0	2500			1
PCB 103	ND	U	27.7	2500			1
PCB 94	ND	U	30.7	2500			1
PCB 95	**1650**	BJ	28.9	2500	1.65	1.109	1
PCBs 93 + 100	ND	U	28.7	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2034
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA1-PCBs	**Units:**	pg
Lab Code:	E1101017-008	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1246
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142068	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	**46.0**	J	29.1	2500	1.51	1.122	1
PCBs 88 + 91	**224**	JK	29.8	2500	2.15	1.140	1
PCB 84	**407**	J	34.4	2500	1.71	1.148	1
PCB 89	ND	U	32.5	2500			1
PCB 121	ND	U	32.0	2500			1
PCB 92	**212**	JK	46.9	2500	1.23	0.864	1
PCBs 90 + 101 + 113	**2200**	BJ	40.9	5000	1.52	0.880	1
PCBs 83 + 99	**797**	J	44.7	2500	1.50	0.895	1
PCB 112	ND	U	34.4	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	**1090**	J	39.6	2500	1.46	0.911	1
PCB 117	ND	U	33.7	1000			1
PCBs 85 + 116	**366**	J	39.4	1000	1.70	0.927	1
PCBs 110 + 115	**1360**	J	33.0	5000	1.61	0.932	1
PCB 82	**159**	J	51.5	2500	1.52	0.940	1
PCB 111	ND	U	32.4	5000			1
PCB 120	ND	U	35.2	2500			1
PCBs 108 + 124	ND	U	89.6	5000			1
PCB 107	ND	U	86.7	5000			1
PCB 123	ND	U	79.7	2500			1
PCB 106	ND	U	92.2	2500			1
PCB 118	**1560**	J	78.6	2500	1.59	1.000	1
PCB 122	ND	U	99.1	2500			1
PCB 114	ND	U	78.1	2500			1
PCB 105	**398**	JK	95.5	1000	1.92	1.001	1
PCB 127	ND	U	99.6	5000			1
PCB 126	ND	U	79.2	2500			1
PCB 155	ND	U	49.7	5000			1
PCB 152	ND	U	17.7	5000			1
PCB 150	ND	U	16.6	5000			1
PCB 136	**239**	J	18.4	1000	1.25	1.022	1
PCB 145	ND	U	17.0	5000			1
PCB 148	ND	U	23.4	5000			1
PCBs 135 + 151	**472**	J	23.2	2500	1.26	1.094	1
PCB 154	ND	U	20.4	2500			1
PCB 144	ND	U	23.3	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2034
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA1-PCBs	**Units:**	pg
Lab Code:	E1101017-008	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1246
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142068	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	**1180**	J	26.9	2500	1.25	1.121	1
PCB 134	**71.5**	JK	34.9	2500	1.44	1.126	1
PCB 143	ND	U	29.3	2500			1
PCBs 139 + 140	ND	U	27.2	2500			1
PCB 131	ND	U	31.8	2500			1
PCB 142	ND	U	33.2	5000			1
PCB 132	**395**	J	30.4	2500	1.12	1.158	1
PCB 133	ND	U	32.5	2500			1
PCB 165	ND	U	23.4	5000			1
PCB 146	**81.8**	JK	26.8	2500	0.95	0.893	1
PCB 161	ND	U	21.7	5000			1
PCBs 153 + 168	**1060**	J	23.0	2500	1.21	0.907	1
PCB 141	**250**	J	28.6	1000	1.32	0.911	1
PCB 130	**44.4**	J	36.0	2500	1.09	0.921	1
PCB 137	**49.3**	J	30.9	5000	1.24	0.925	1
PCB 164	**62.0**	J	23.5	2500	1.11	0.927	1
PCBs 129 + 138 + 163	**952**	J	28.8	2500	1.27	0.934	1
PCB 160	ND	U	24.2	2500			1
PCB 158	**62.5**	JK	22.5	1000	1.00	0.944	1
PCBs 128 + 166	**117**	J	28.3	2500	1.35	0.962	1
PCB 159	ND	U	54.6	5000			1
PCB 162	ND	U	47.9	5000			1
PCB 167	ND	U	35.4	2500			1
PCBs 156 + 157	**62.7**	JK	47.5	2500	1.67	1.000	1
PCB 169	ND	U	44.0	2500			1
PCB 188	ND	U	46.9	2500			1
PCB 179	**286**	J	30.6	2500	0.90	1.009	1
PCB 184	ND	U	26.0	5000			1
PCB 176	**57.4**	JK	30.5	5000	0.81	1.032	1
PCB 186	ND	U	29.0	5000			1
PCB 178	**69.9**	JK	43.1	2500	0.85	1.078	1
PCB 175	ND	U	41.3	5000			1
PCB 187	**415**	J	36.2	2500	0.95	1.101	1
PCB 182	ND	U	39.9	5000			1
PCB 183	**357**	J	91.2	5000	0.99	1.116	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2034
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA1-PCBs	**Units:**	pg
Lab Code:	E1101017-008	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1246
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142068	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	ND	U	91.3	5000			1
PCB 174	**352**	J	96.4	2500	1.15	1.122	1
PCB 177	**154**	JK	101	2500	1.43	1.133	1
PCB 181	ND	U	91.5	5000			1
PCBs 171 + 173	ND	U	106	5000			1
PCB 172	ND	U	112	5000			1
PCB 192	ND	U	80.8	5000			1
PCBs 180 + 193	**432**	J	88.5	2500	1.15	0.916	1
PCB 191	ND	U	81.8	5000			1
PCB 170	**134**	J	119	2500	1.02	0.940	1
PCB 190	ND	U	86.8	2500			1
PCB 189	ND	U	61.9	2500			1
PCB 202	**91.6**	JK	39.2	5000	1.07	1.000	1
PCB 201	ND	U	33.9	5000			1
PCB 204	ND	U	34.9	5000			1
PCB 197	ND	U	32.5	5000			1
PCB 200	ND	U	33.7	5000			1
PCBs 198 + 199	ND	U	48.7	2500			1
PCB 196	ND	U	49.9	5000			1
PCB 203	ND	U	41.9	5000			1
PCB 195	ND	U	55.0	5000			1
PCB 194	ND	U	53.9	2500			1
PCB 205	ND	U	57.5	5000			1
PCB 208	ND	U	69.1	5000			1
PCB 207	ND	U	58.7	5000			1
PCB 206	ND	U	59.6	5000			1
PCB 209	ND	U	63.2	2500			1
Total MonoCB	**292**	J	79.2	1000			1
Total DiCB	**3350**		229	2500			1
Total TriCB	**23500**		294	2500			1
Total TetraCB	**28900**		49.5	2500			1
Total PentaCB	**9380**		23.0	5000			1
Total HexaCB	**5090**		16.6	5000			1
Total HeptaCB	**2260**	J	26.0	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2034
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA1-PCBs	**Units:**	pg
Lab Code:	E1101017-008	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1246
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142068	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	**91.6**	J	32.5	5000			1
Total NonaCB	ND	U	58.7	5000			1
Total PCBs	**74000**		16.6	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2034
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA1-PCBs	**Units:**	Percent
Lab Code:	E1101017-008	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1246
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142068	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	8348.393	83		15-150	3.07	0.734
PCB 3L	10000	10792.694	108		15-150	3.11	0.860
PCB 4L	10000	7179.915	72		25-150	1.54	0.872
PCB 15L	10000	9824.457	98		25-150	1.57	1.224
PCB 19L	10000	6239.182	62		25-150	1.07	1.061
PCB 37L	10000	8913.597	89		25-150	1.08	1.082
PCB 54L	10000	4554.827	46		25-150	0.81	0.837
PCB 81L	10000	7148.423	71		25-150	0.81	1.336
PCB 77L	10000	7406.555	74		25-150	0.79	1.357
PCB 104L	10000	6743.563	67		25-150	1.60	0.823
PCB 123L	10000	11251.288	113		25-150	1.55	1.137
PCB 118L	10000	11197.785	112		25-150	1.58	1.147
PCB 114L	10000	11793.571	118		25-150	1.65	1.162
PCB 105L	10000	9712.435	97		25-150	1.62	1.180
PCB 126L	10000	13517.250	135		25-150	1.57	1.271
PCB 155L	10000	4704.550	47		25-150	1.23	0.803
PCB 167L	10000	12240.586	122		25-150	1.28	1.071
PCBs 156L + 157L	20000	23875.440	119		25-150	1.26	1.098
PCB 169L	10000	12089.155	121		25-150	1.24	1.175
PCB 188L	10000	5801.104	58		25-150	1.07	0.731
PCB 189L	10000	10332.680	103		25-150	1.03	0.962
PCB 202L	10000	7749.226	77		25-150	0.90	0.830
PCB 205L	10000	6983.936	70		25-150	0.90	1.009
PCB 208L	10000	7141.415	71		25-150	0.78	0.953
PCB 206L	10000	9446.735	94		25-150	0.79	1.041
PCB 209L	10000	5953.995	60		25-150	1.21	1.071
PCB 28L	10000	9917.801	99		30-135	1.05	0.931
PCB 111L	10000	7071.332	71		30-135	1.56	1.080
PCB 178L	10000	5852.327	59		30-135	1.03	1.011
PCB 8L	10000	2048.006	20	Y	25-150	1.64	0.848
PCB 70L	10000	7198.921	72		25-150	0.81	0.883

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2034
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA1-PCBs	**Units:**	pg
Lab Code:	E1101017-008	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	65.4	2500	1	0.0003	
PCB 77	**142**	66.8	2500	1	0.0001	0.0142
PCB 123	ND	79.7	2500	1	0.00003	
PCB 118	**1560**	78.6	2500	1	0.00003	0.0468
PCB 114	ND	78.1	2500	1	0.00003	
PCB 105	**398**	95.5	1000	1	0.00003	0.0119
PCB 126	ND	79.2	2500	1	0.1	
PCB 167	ND	35.4	2500	1	0.00003	
PCBs 156 + 157	**62.7**	47.5	2500	1	0.00003	0.00188
PCB 169	ND	44.0	2500	1	0.03	
PCB 189	ND	61.9	2500	1	0.00003	
		Total TEQ				0.0748

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2028
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA2-PCBs	**Units:**	pg
Lab Code:	E1101017-009	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1354
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142069	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	ND	U	83.1	1000			1
PCB 2	ND	U	129	129			1
PCB 3	**353**	BJK	136	1000	1.91	0.998	1
PCB 4	ND	U	4370	4370			1
PCB 10	ND	U	1410	1410			1
PCB 9	ND	U	1280	1280			1
PCB 7	ND	U	1160	1160			1
PCB 6	ND	U	1210	1210			1
PCB 5	ND	U	1270	1270			1
PCB 8	ND	U	1160	2500			1
PCB 14	ND	U	1170	1170			1
PCB 11	ND	U	1350	1350			1
PCBs 12 + 13	**1740**	K	1240	1240	1.26	0.988	1
PCB 15	**1530**	J	284	2500	1.59	1.001	1
PCB 19	ND	U	1170	1170			1
PCBs 18 + 30	ND	U	857	2500			1
PCB 17	ND	U	985	1000			1
PCB 27	ND	U	747	1000			1
PCB 24	**982**	JK	726	1000	1.48	1.142	1
PCB 16	ND	U	1110	1110			1
PCB 32	**1360**		699	1000	1.04	1.175	1
PCB 34	ND	U	1110	1110			1
PCB 23	ND	U	1010	1010			1
PCBs 26 + 29	**1720**	K	1040	1040	1.37	1.261	1
PCB 25	ND	U	985	1000			1
PCB 31	**7310**		1050	2500	1.09	0.849	1
PCBs 20 + 28	**6680**		1010	2500	0.94	0.859	1
PCBs 21 + 33	**3340**		1070	1070	1.15	0.867	1
PCB 22	**2850**	K	1080	1080	1.22	0.881	1
PCB 36	ND	U	1090	1090			1
PCB 39	ND	U	972	1000			1
PCB 38	ND	U	1170	1170			1
PCB 35	ND	U	1220	1220			1
PCB 37	ND	U	1130	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2028
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA2-PCBs	**Units:**	pg
Lab Code:	E1101017-009	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1354
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142069	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	ND	U	136	2500			1
PCBs 50 + 53	**679**	J	53.8	1000	0.80	1.094	1
PCBs 45 + 51	**892**	J	55.4	1000	0.80	1.124	1
PCB 46	**260**	J	64.8	1000	0.76	1.138	1
PCB 52	**5000**	B	55.3	2500	0.73	1.205	1
PCBs 43 + 73	ND	U	45.2	2500			1
PCBs 49 + 69	**1810**	J	48.0	2500	0.77	1.228	1
PCB 48	**897**	J	51.3	1000	0.83	1.243	1
PCBs 44 + 47 + 65	**2440**	BJ	48.8	2500	0.84	1.250	1
PCBs 59 + 62 + 75	ND	U	41.9	1000			1
PCB 42	**193**	JK	59.2	1000	1.36	1.275	1
PCBs 41 + 71 + 40	**743**	JK	54.7	2500	0.94	1.297	1
PCB 64	**576**	JK	41.4	1000	0.90	1.307	1
PCB 72	ND	U	42.5	2500			1
PCB 68	ND	U	38.7	2500			1
PCB 57	ND	U	45.0	2500			1
PCB 58	ND	U	41.8	2500			1
PCB 67	ND	U	41.1	2500			1
PCB 63	ND	U	43.8	2500			1
PCBs 70 + 61 + 74 + 76	**3040**	B	42.6	2500	0.87	0.887	1
PCB 66	**599**	JK	45.6	2500	1.17	0.897	1
PCB 55	ND	U	44.5	2500			1
PCB 56	**672**	J	122	1000	0.65	0.915	1
PCB 60	**375**	J	122	2500	0.78	0.919	1
PCB 80	ND	U	114	2500			1
PCB 79	ND	U	120	2500			1
PCB 78	ND	U	133	2500			1
PCB 81	ND	U	142	2500			1
PCB 77	ND	U	146	2500			1
PCB 104	ND	U	108	2500			1
PCB 96	ND	U	32.4	2500			1
PCB 103	ND	U	39.0	2500			1
PCB 94	ND	U	43.3	2500			1
PCB 95	**2250**	BJ	40.8	2500	1.56	1.107	1
PCBs 93 + 100	ND	U	40.5	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2028
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA2-PCBs	**Units:**	pg
Lab Code:	E1101017-009	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1354
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142069	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	ND	U	41.0	2500			1
PCBs 88 + 91	**370**	J	42.1	2500	1.54	1.139	1
PCB 84	**688**	J	48.6	2500	1.68	1.145	1
PCB 89	ND	U	45.8	2500			1
PCB 121	ND	U	73.3	2500			1
PCB 92	**401**	J	108	2500	1.46	0.869	1
PCBs 90 + 101 + 113	**3320**	BJ	93.7	5000	1.62	0.884	1
PCBs 83 + 99	**1420**	J	103	2500	1.59	0.899	1
PCB 112	ND	U	78.9	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	**2360**	J	90.8	2500	1.59	0.914	1
PCB 117	ND	U	77.1	1000			1
PCBs 85 + 116	**646**	JK	90.2	1000	1.94	0.930	1
PCBs 110 + 115	**3120**	J	75.7	5000	1.51	0.933	1
PCB 82	**313**	J	118	2500	1.73	0.941	1
PCB 111	ND	U	74.2	5000			1
PCB 120	ND	U	80.6	2500			1
PCBs 108 + 124	**207**	JK	113	5000	1.23	0.991	1
PCB 107	**361**	J	109	5000	1.66	0.997	1
PCB 123	ND	U	88.1	2500			1
PCB 106	ND	U	116	2500			1
PCB 118	**4350**		80.8	2500	1.54	1.000	1
PCB 122	ND	U	124	2500			1
PCB 114	ND	U	77.4	2500			1
PCB 105	**1650**		101	1000	1.63	1.001	1
PCB 127	ND	U	125	5000			1
PCB 126	ND	U	90.0	2500			1
PCB 155	ND	U	93.9	5000			1
PCB 152	ND	U	29.7	5000			1
PCB 150	ND	U	27.7	5000			1
PCB 136	**353**	J	30.8	1000	1.29	1.021	1
PCB 145	ND	U	28.4	5000			1
PCB 148	ND	U	39.2	5000			1
PCBs 135 + 151	**685**	J	38.9	2500	1.18	1.090	1
PCB 154	ND	U	34.2	2500			1
PCB 144	ND	U	39.1	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2028
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA2-PCBs	**Units:**	pg
Lab Code:	E1101017-009	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1354
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142069	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	**2280**	J	52.7	2500	1.21	1.117	1
PCB 134	**158**	JK	68.4	2500	0.96	1.123	1
PCB 143	ND	U	57.4	2500			1
PCBs 139 + 140	ND	U	53.4	2500			1
PCB 131	ND	U	62.3	2500			1
PCB 142	ND	U	65.1	5000			1
PCB 132	**1190**	J	59.6	2500	1.39	1.153	1
PCB 133	ND	U	63.8	2500			1
PCB 165	ND	U	45.9	5000			1
PCB 146	**296**	J	52.5	2500	1.27	0.893	1
PCB 161	ND	U	42.6	5000			1
PCBs 153 + 168	**2080**	J	45.1	2500	1.25	0.907	1
PCB 141	**511**	J	56.0	1000	1.36	0.911	1
PCB 130	**147**	JK	70.5	2500	1.56	0.920	1
PCB 137	**206**	J	60.5	5000	1.41	0.926	1
PCB 164	**92.1**	JK	46.2	2500	0.75	0.928	1
PCBs 129 + 138 + 163	**2950**		56.5	2500	1.19	0.934	1
PCB 160	ND	U	47.4	2500			1
PCB 158	**275**	J	44.1	1000	1.17	0.943	1
PCBs 128 + 166	**436**	J	55.4	2500	1.07	0.962	1
PCB 159	ND	U	56.3	5000			1
PCB 162	ND	U	49.3	5000			1
PCB 167	**97.0**	JK	36.0	2500	1.44	1.000	1
PCBs 156 + 157	**299**	J	46.6	2500	1.33	1.000	1
PCB 169	ND	U	44.8	2500			1
PCB 188	ND	U	53.1	2500			1
PCB 179	**296**	J	35.9	2500	0.96	1.009	1
PCB 184	ND	U	30.5	5000			1
PCB 176	**74.3**	J	35.8	5000	1.03	1.032	1
PCB 186	ND	U	34.0	5000			1
PCB 178	**73.1**	J	50.6	2500	0.94	1.077	1
PCB 175	ND	U	48.5	5000			1
PCB 187	**532**	J	42.5	2500	1.10	1.100	1
PCB 182	ND	U	46.8	5000			1
PCB 183	**427**	JK	102	5000	0.77	1.116	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2028
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA2-PCBs	**Units:**	pg
Lab Code:	E1101017-009	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1354
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142069	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	ND	U	102	5000			1
PCB 174	**599**	J	108	2500	1.09	1.122	1
PCB 177	**281**	JK	113	2500	0.88	1.133	1
PCB 181	ND	U	103	5000			1
PCBs 171 + 173	**159**	J	119	5000	1.16	1.148	1
PCB 172	ND	U	125	5000			1
PCB 192	ND	U	90.1	5000			1
PCBs 180 + 193	**841**	J	98.8	2500	1.02	0.916	1
PCB 191	ND	U	91.3	5000			1
PCB 170	**302**	JK	133	2500	0.79	0.940	1
PCB 190	ND	U	96.8	2500			1
PCB 189	ND	U	72.0	2500			1
PCB 202	ND	U	65.8	5000			1
PCB 201	ND	U	53.2	5000			1
PCB 204	ND	U	54.7	5000			1
PCB 197	ND	U	51.0	5000			1
PCB 200	ND	U	52.9	5000			1
PCBs 198 + 199	**146**	JK	76.5	2500	0.61	1.106	1
PCB 196	ND	U	78.3	5000			1
PCB 203	ND	U	65.8	5000			1
PCB 195	ND	U	86.3	5000			1
PCB 194	ND	U	84.7	2500			1
PCB 205	ND	U	83.4	5000			1
PCB 208	ND	U	76.4	5000			1
PCB 207	ND	U	67.4	5000			1
PCB 206	ND	U	81.5	5000			1
PCB 209	ND	U	78.2	2500			1
Total MonoCB	**353**	J	83.1	1000			1
Total DiCB	**3270**		284	2500			1
Total TriCB	**24200**		699	2500			1
Total TetraCB	**18200**		38.7	2500			1
Total PentaCB	**18900**		32.4	5000			1
Total HexaCB	**12000**		27.7	5000			1
Total HeptaCB	**3580**	J	30.5	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2028
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA2-PCBs	**Units:**	pg
Lab Code:	E1101017-009	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1354
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142069	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	**146**	J	51.0	5000			1
Total NonaCB	ND	U	67.4	5000			1
Total PCBs	**83300**		27.7	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2028
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA2-PCBs	**Units:**	Percent
Lab Code:	E1101017-009	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1354
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142069	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	10140.552	101		15-150	3.09	0.735
PCB 3L	10000	13002.476	130		15-150	3.13	0.860
PCB 4L	10000	9180.232	92		25-150	1.59	0.877
PCB 15L	10000	9489.267	95		25-150	1.63	1.224
PCB 19L	10000	6593.593	66		25-150	1.06	1.060
PCB 37L	10000	8727.883	87		25-150	1.11	1.082
PCB 54L	10000	7106.658	71		25-150	0.81	0.830
PCB 81L	10000	11682.353	117		25-150	0.80	1.327
PCB 77L	10000	12128.340	121		25-150	0.79	1.347
PCB 104L	10000	5092.184	51		25-150	1.55	0.826
PCB 123L	10000	12305.367	123		25-150	1.64	1.132
PCB 118L	10000	12525.352	125		25-150	1.66	1.141
PCB 114L	10000	13645.579	136		25-150	1.62	1.157
PCB 105L	10000	11051.179	111		25-150	1.56	1.175
PCB 126L	10000	15268.325	153	Y	25-150	1.58	1.265
PCB 155L	10000	3719.088	37		25-150	1.23	0.807
PCB 167L	10000	10676.165	107		25-150	1.29	1.071
PCBs 156L + 157L	20000	21423.391	107		25-150	1.26	1.098
PCB 169L	10000	10762.139	108		25-150	1.25	1.175
PCB 188L	10000	5541.133	55		25-150	1.07	0.731
PCB 189L	10000	9527.892	95		25-150	1.04	0.962
PCB 202L	10000	7220.315	72		25-150	0.90	0.829
PCB 205L	10000	6979.688	70		25-150	0.91	1.009
PCB 208L	10000	6817.310	68		25-150	0.78	0.952
PCB 206L	10000	8562.864	86		25-150	0.77	1.041
PCB 209L	10000	5717.889	57		25-150	1.22	1.070
PCB 28L	10000	9134.850	91		30-135	1.13	0.928
PCB 111L	10000	7826.497	78		30-135	1.59	1.077
PCB 178L	10000	5707.990	57		30-135	1.05	1.011
PCB 8L	10000	3020.211	30		25-150	1.62	0.847
PCB 70L	10000	5737.544	57		25-150	0.79	0.886

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 2028
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-OA2-PCBs	**Units:**	pg
Lab Code:	E1101017-009	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	142	2500	1	0.0003	
PCB 77	ND	146	2500	1	0.0001	
PCB 123	ND	88.1	2500	1	0.00003	
PCB 118	**4350**	80.8	2500	1	0.00003	0.131
PCB 114	ND	77.4	2500	1	0.00003	
PCB 105	**1650**	101	1000	1	0.00003	0.0495
PCB 126	ND	90.0	2500	1	0.1	
PCB 167	**97.0**	36.0	2500	1	0.00003	0.00291
PCBs 156 + 157	**299**	46.6	2500	1	0.00003	0.00897
PCB 169	ND	44.8	2500	1	0.03	
PCB 189	ND	72.0	2500	1	0.00003	
		Total TEQ				0.192

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Blank-PCBs	**Units:**	pg
Lab Code:	E1101017-010	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1502
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142070	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	ND	U	32.7	1000			1
PCB 2	ND	U	36.8	50.0			1
PCB 3	**41.3**	BJK	31.5	1000	0.35	1.000	1
PCB 4	ND	U	872	2500			1
PCB 10	ND	U	331	331			1
PCB 9	ND	U	408	408			1
PCB 7	ND	U	369	369			1
PCB 6	ND	U	385	385			1
PCB 5	ND	U	405	405			1
PCB 8	ND	U	369	2500			1
PCB 14	ND	U	371	500			1
PCB 11	**839**	JK	428	1000	0.66	0.982	1
PCBs 12 + 13	ND	U	396	500			1
PCB 15	ND	U	259	2500			1
PCB 19	ND	U	557	557			1
PCBs 18 + 30	ND	U	303	2500			1
PCB 17	ND	U	347	1000			1
PCB 27	ND	U	264	1000			1
PCB 24	ND	U	256	1000			1
PCB 16	ND	U	390	500			1
PCB 32	ND	U	247	1000			1
PCB 34	ND	U	342	1000			1
PCB 23	ND	U	313	1000			1
PCBs 26 + 29	ND	U	322	1000			1
PCB 25	ND	U	306	1000			1
PCB 31	ND	U	324	2500			1
PCBs 20 + 28	ND	U	313	2500			1
PCBs 21 + 33	ND	U	329	1000			1
PCB 22	ND	U	333	1000			1
PCB 36	ND	U	337	1000			1
PCB 39	ND	U	302	1000			1
PCB 38	ND	U	362	1000			1
PCB 35	ND	U	376	1000			1
PCB 37	ND	U	296	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Blank-PCBs	**Units:**	pg
Lab Code:	E1101017-010	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1502
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142070	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	ND	U	175	2500			1
PCBs 50 + 53	ND	U	43.8	1000			1
PCBs 45 + 51	ND	U	45.0	1000			1
PCB 46	ND	U	52.7	1000			1
PCB 52	ND	U	45.0	2500			1
PCBs 43 + 73	ND	U	36.8	2500			1
PCBs 49 + 69	ND	U	39.0	2500			1
PCB 48	ND	U	41.7	1000			1
PCBs 44 + 47 + 65	ND	U	39.7	2500			1
PCBs 59 + 62 + 75	ND	U	34.1	1000			1
PCB 42	ND	U	48.1	1000			1
PCBs 41 + 71 + 40	ND	U	44.4	2500			1
PCB 64	ND	U	33.7	1000			1
PCB 72	ND	U	34.6	2500			1
PCB 68	ND	U	31.4	2500			1
PCB 57	ND	U	36.6	2500			1
PCB 58	ND	U	34.0	2500			1
PCB 67	ND	U	33.4	2500			1
PCB 63	ND	U	35.6	2500			1
PCBs 70 + 61 + 74 + 76	ND	U	34.6	2500			1
PCB 66	ND	U	37.1	2500			1
PCB 55	ND	U	36.2	2500			1
PCB 56	ND	U	44.6	1000			1
PCB 60	ND	U	44.4	2500			1
PCB 80	ND	U	41.5	2500			1
PCB 79	ND	U	43.8	2500			1
PCB 78	ND	U	48.5	2500			1
PCB 81	ND	U	46.9	2500			1
PCB 77	ND	U	45.5	2500			1
PCB 104	ND	U	31.4	2500			1
PCB 96	ND	U	15.0	2500			1
PCB 103	ND	U	18.1	2500			1
PCB 94	ND	U	20.1	2500			1
PCB 95	ND	U	18.9	2500			1
PCBs 93 + 100	ND	U	18.8	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Blank-PCBs	**Units:**	pg
Lab Code:	E1101017-010	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1502
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142070	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	ND	U	19.0	2500			1
PCBs 88 + 91	ND	U	19.5	2500			1
PCB 84	ND	U	22.5	2500			1
PCB 89	ND	U	21.2	2500			1
PCB 121	ND	U	28.8	2500			1
PCB 92	ND	U	42.1	2500			1
PCBs 90 + 101 + 113	**52.8**	BJK	36.7	5000	1.25	0.880	1
PCBs 83 + 99	ND	U	40.1	2500			1
PCB 112	ND	U	30.9	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	ND	U	35.6	2500			1
PCB 117	ND	U	30.2	1000			1
PCBs 85 + 116	ND	U	35.4	1000			1
PCBs 110 + 115	ND	U	29.7	5000			1
PCB 82	ND	U	46.2	2500			1
PCB 111	ND	U	29.1	5000			1
PCB 120	ND	U	31.6	2500			1
PCBs 108 + 124	ND	U	23.3	5000			1
PCB 107	ND	U	22.5	5000			1
PCB 123	ND	U	19.8	2500			1
PCB 106	ND	U	24.0	2500			1
PCB 118	ND	U	19.6	2500			1
PCB 122	ND	U	25.8	2500			1
PCB 114	ND	U	20.2	2500			1
PCB 105	ND	U	20.9	1000			1
PCB 127	ND	U	25.9	5000			1
PCB 126	ND	U	26.5	2500			1
PCB 155	ND	U	47.5	5000			1
PCB 152	ND	U	23.2	5000			1
PCB 150	ND	U	21.6	5000			1
PCB 136	ND	U	24.1	1000			1
PCB 145	ND	U	22.2	5000			1
PCB 148	ND	U	30.6	5000			1
PCBs 135 + 151	ND	U	30.4	2500			1
PCB 154	ND	U	26.7	2500			1
PCB 144	ND	U	30.5	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Blank-PCBs	**Units:**	pg
Lab Code:	E1101017-010	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1502
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142070	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	ND	U	22.3	2500			1
PCB 134	ND	U	28.9	2500			1
PCB 143	ND	U	24.3	2500			1
PCBs 139 + 140	ND	U	22.5	2500			1
PCB 131	ND	U	26.3	2500			1
PCB 142	ND	U	27.5	5000			1
PCB 132	ND	U	25.2	2500			1
PCB 133	ND	U	26.9	2500			1
PCB 165	ND	U	19.4	5000			1
PCB 146	ND	U	22.2	2500			1
PCB 161	ND	U	18.0	5000			1
PCBs 153 + 168	ND	U	19.1	2500			1
PCB 141	ND	U	23.7	1000			1
PCB 130	ND	U	29.8	2500			1
PCB 137	ND	U	25.6	5000			1
PCB 164	ND	U	19.5	2500			1
PCBs 129 + 138 + 163	ND	U	23.9	2500			1
PCB 160	ND	U	20.1	2500			1
PCB 158	ND	U	18.7	1000			1
PCBs 128 + 166	ND	U	23.4	2500			1
PCB 159	ND	U	38.2	5000			1
PCB 162	ND	U	33.4	5000			1
PCB 167	ND	U	27.1	2500			1
PCBs 156 + 157	ND	U	35.6	2500			1
PCB 169	ND	U	33.5	2500			1
PCB 188	ND	U	27.5	2500			1
PCB 179	ND	U	20.8	2500			1
PCB 184	ND	U	17.7	5000			1
PCB 176	ND	U	20.8	5000			1
PCB 186	ND	U	19.8	5000			1
PCB 178	ND	U	29.4	2500			1
PCB 175	ND	U	28.1	5000			1
PCB 187	ND	U	24.6	2500			1
PCB 182	ND	U	27.2	5000			1
PCB 183	ND	U	55.0	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Blank-PCBs	**Units:**	pg
Lab Code:	E1101017-010	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1502
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142070	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	ND	U	55.1	5000			1
PCB 174	ND	U	58.1	2500			1
PCB 177	ND	U	60.7	2500			1
PCB 181	ND	U	55.2	5000			1
PCBs 171 + 173	ND	U	63.9	5000			1
PCB 172	ND	U	67.2	5000			1
PCB 192	ND	U	48.7	5000			1
PCBs 180 + 193	ND	U	53.4	2500			1
PCB 191	ND	U	49.3	5000			1
PCB 170	ND	U	71.4	2500			1
PCB 190	ND	U	52.3	2500			1
PCB 189	ND	U	44.6	2500			1
PCB 202	ND	U	34.1	5000			1
PCB 201	ND	U	28.8	5000			1
PCB 204	ND	U	29.6	5000			1
PCB 197	ND	U	27.6	5000			1
PCB 200	ND	U	28.7	5000			1
PCBs 198 + 199	ND	U	41.4	2500			1
PCB 196	ND	U	42.4	5000			1
PCB 203	ND	U	35.6	5000			1
PCB 195	ND	U	46.7	5000			1
PCB 194	ND	U	45.9	2500			1
PCB 205	ND	U	48.4	5000			1
PCB 208	ND	U	54.5	5000			1
PCB 207	ND	U	47.2	5000			1
PCB 206	ND	U	40.8	5000			1
PCB 209	ND	U	52.4	2500			1
Total MonoCB	**41.3**	J	31.5	1000			1
Total DiCB	**839**	J	259	2500			1
Total TriCB	ND	U	247	2500			1
Total TetraCB	ND	U	31.4	2500			1
Total PentaCB	**52.8**	J	15.0	5000			1
Total HexaCB	ND	U	18.0	5000			1
Total HeptaCB	ND	U	17.7	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Blank-PCBs	**Units:**	pg
Lab Code:	E1101017-010	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1502
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142070	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	ND	U	27.6	5000			1
Total NonaCB	ND	U	40.8	5000			1
Total PCBs	**933**	J	15.0	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Blank-PCBs	**Units:**	Percent
Lab Code:	E1101017-010	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/8/11 1502
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142070	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142063

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	6853.280	69		15-150	3.06	0.744
PCB 3L	10000	8035.084	80		15-150	3.08	0.870
PCB 4L	10000	6244.529	62		25-150	1.58	0.883
PCB 15L	10000	8809.804	88		25-150	1.60	1.224
PCB 19L	10000	6130.867	61		25-150	1.03	1.067
PCB 37L	10000	9312.534	93		25-150	1.08	1.082
PCB 54L	10000	4254.680	43		25-150	0.82	0.831
PCB 81L	10000	9381.426	94		25-150	0.79	1.335
PCB 77L	10000	10294.232	103		25-150	0.77	1.356
PCB 104L	10000	4539.762	45		25-150	1.57	0.824
PCB 123L	10000	8970.367	90		25-150	1.57	1.138
PCB 118L	10000	8977.908	90		25-150	1.61	1.148
PCB 114L	10000	8637.331	86		25-150	1.63	1.164
PCB 105L	10000	8767.142	88		25-150	1.59	1.183
PCB 126L	10000	8521.585	85		25-150	1.65	1.275
PCB 155L	10000	5409.933	54		25-150	1.26	0.800
PCB 167L	10000	9573.016	96		25-150	1.23	1.072
PCBs 156L + 157L	20000	19596.081	98		25-150	1.25	1.100
PCB 169L	10000	9669.954	97		25-150	1.26	1.177
PCB 188L	10000	7349.560	73		25-150	1.03	0.728
PCB 189L	10000	9741.366	97		25-150	1.01	0.962
PCB 202L	10000	7839.242	78		25-150	0.93	0.828
PCB 205L	10000	6580.175	66		25-150	0.93	1.009
PCB 208L	10000	6710.994	67		25-150	0.79	0.952
PCB 206L	10000	8700.594	87		25-150	0.78	1.041
PCB 209L	10000	5434.009	54		25-150	1.15	1.071
PCB 28L	10000	8189.644	82		30-135	1.06	0.931
PCB 111L	10000	7320.296	73		30-135	1.56	1.081
PCB 178L	10000	5778.875	58		30-135	1.04	1.011
PCB 8L	10000	1794.756	18	KY	25-150	1.27	0.852
PCB 70L	10000	7337.051	73		25-150	0.81	0.882

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Blank-PCBs	**Units:**	pg
Lab Code:	E1101017-010	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	ND	46.9	2500	1	0.0003	
PCB 77	ND	45.5	2500	1	0.0001	
PCB 123	ND	19.8	2500	1	0.00003	
PCB 118	ND	19.6	2500	1	0.00003	
PCB 114	ND	20.2	2500	1	0.00003	
PCB 105	ND	20.9	1000	1	0.00003	
PCB 126	ND	26.5	2500	1	0.1	
PCB 167	ND	27.1	2500	1	0.00003	
PCBs 156 + 157	ND	35.6	2500	1	0.00003	
PCB 169	ND	33.5	2500	1	0.03	
PCB 189	ND	44.6	2500	1	0.00003	
		Total TEQ				0.00

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Dup-PCBs	**Units:**	pg
Lab Code:	E1101017-011	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/28/11 1305
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142193	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142188

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	**2010**		175	1000	3.14	1.001	1
PCB 2	**1940**		194	194	3.22	0.988	1
PCB 3	**4310**	B	264	1000	3.23	1.001	1
PCB 4	ND	U	13900	13900			1
PCB 10	ND	U	6600	6600			1
PCB 9	ND	U	8500	8500			1
PCB 7	ND	U	8590	8590			1
PCB 6	ND	U	8200	8200			1
PCB 5	ND	U	9450	9450			1
PCB 8	**58000**		7300	7300	1.60	1.186	1
PCB 14	ND	U	7970	7970			1
PCB 11	**223000**		8590	8590	1.49	0.977	1
PCBs 12 + 13	ND	U	9120	9120			1
PCB 15	**44100**		9200	9200	1.45	1.001	1
PCB 19	**9650**	K	1190	1190	1.42	1.001	1
PCBs 18 + 30	**4310**	K	653	2500	0.84	1.094	1
PCB 17	ND	U	806	1000			1
PCB 27	**27400**		520	1000	1.02	1.128	1
PCB 24	**7600**		594	1000	1.09	1.138	1
PCB 16	**69900**		1030	1030	1.01	1.149	1
PCB 32	**32200**		526	1000	1.01	1.176	1
PCB 34	ND	U	756	1000			1
PCB 23	ND	U	781	1000			1
PCBs 26 + 29	**30700**		740	1000	1.02	1.266	1
PCB 25	**12200**		686	1000	1.03	0.841	1
PCB 31	**150000**		708	2500	1.04	0.851	1
PCBs 20 + 28	**162000**		753	2500	1.08	0.861	1
PCBs 21 + 33	**105000**		738	1000	1.10	0.869	1
PCB 22	**73000**		829	1000	1.12	0.884	1
PCB 36	ND	U	730	1000			1
PCB 39	ND	U	797	1000			1
PCB 38	ND	U	792	1000			1
PCB 35	**1580**		905	1000	1.06	0.987	1
PCB 37	**28800**		840	2500	1.10	1.001	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Dup-PCBs	**Units:**	pg
Lab Code:	E1101017-011	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/28/11 1305
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142193	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142188

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	ND	U	366	2500			1
PCBs 50 + 53	**21500**		461	1000	0.78	1.098	1
PCBs 45 + 51	**35400**		483	1000	0.79	1.128	1
PCB 46	**10600**		568	1000	0.76	1.142	1
PCB 52	**109000**	B	433	2500	0.77	1.207	1
PCBs 43 + 73	**3880**	K	442	2500	0.92	1.218	1
PCBs 49 + 69	**66300**		392	2500	0.77	1.230	1
PCB 48	**34400**		462	1000	0.71	1.243	1
PCBs 44 + 47 + 65	**101000**	B	425	2500	0.81	1.252	1
PCBs 59 + 62 + 75	**15300**		353	1000	0.72	1.268	1
PCB 42	**25900**		495	1000	0.85	1.276	1
PCBs 41 + 71 + 40	**76500**		471	2500	0.75	1.300	1
PCB 64	**39900**		342	1000	0.86	1.309	1
PCB 72	ND	U	333	2500			1
PCB 68	**806**	J	343	2500	0.76	0.844	1
PCB 57	ND	U	360	2500			1
PCB 58	ND	U	377	2500			1
PCB 67	**2050**	J	356	2500	0.84	0.868	1
PCB 63	**1890**	JK	349	2500	0.93	0.875	1
PCBs 70 + 61 + 74 + 76	**109000**	B	368	2500	0.77	0.884	1
PCB 66	**45400**		354	2500	0.77	0.894	1
PCB 55	**1050**	J	393	2500	0.86	0.897	1
PCB 56	**28000**		473	1000	0.85	0.912	1
PCB 60	**14800**		451	2500	0.78	0.918	1
PCB 80	ND	U	408	2500			1
PCB 79	ND	U	407	2500			1
PCB 78	ND	U	447	2500			1
PCB 81	**1020**	JK	517	2500	0.92	1.001	1
PCB 77	**2530**		556	2500	0.80	1.000	1
PCB 104	ND	U	407	2500			1
PCB 96	ND	U	257	2500			1
PCB 103	ND	U	300	2500			1
PCB 94	ND	U	382	2500			1
PCB 95	**17400**	B	323	2500	1.56	1.110	1
PCBs 93 + 100	ND	U	338	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Dup-PCBs	**Units:**	pg
Lab Code:	E1101017-011	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/28/11 1305
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142193	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142188

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	**934**	JK	352	2500	1.80	1.123	1
PCBs 88 + 91	**4240**	K	343	2500	1.28	1.140	1
PCB 84	**5010**		407	2500	1.78	1.148	1
PCB 89	ND	U	365	2500			1
PCB 121	ND	U	382	2500			1
PCB 92	**2670**		500	2500	1.61	0.865	1
PCBs 90 + 101 + 113	**20100**	B	460	5000	1.65	0.880	1
PCBs 83 + 99	**9470**		506	2500	1.64	0.895	1
PCB 112	ND	U	385	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	**11300**		446	2500	1.55	0.910	1
PCB 117	**833**	J	442	1000	1.59	0.924	1
PCBs 85 + 116	**3660**		434	1000	1.61	0.927	1
PCBs 110 + 115	**11200**		404	5000	1.53	0.931	1
PCB 82	**1490**	J	588	2500	1.74	0.939	1
PCB 111	ND	U	410	5000			1
PCB 120	ND	U	370	2500			1
PCBs 108 + 124	ND	U	380	5000			1
PCB 107	**488**	J	357	5000	1.52	0.997	1
PCB 123	**769**	J	417	2500	1.53	1.001	1
PCB 106	**532**	JK	362	2500	2.23	1.002	1
PCB 118	**7330**		432	2500	1.54	1.000	1
PCB 122	ND	U	404	2500			1
PCB 114	**459**	JK	399	2500	2.58	1.001	1
PCB 105	**2320**		438	1000	1.58	1.001	1
PCB 127	ND	U	426	5000			1
PCB 126	**1320**	JK	511	2500	1.13	1.001	1
PCB 155	ND	U	257	5000			1
PCB 152	ND	U	149	5000			1
PCB 150	ND	U	159	5000			1
PCB 136	**1710**		148	1000	1.29	1.022	1
PCB 145	ND	U	162	5000			1
PCB 148	ND	U	202	5000			1
PCBs 135 + 151	**4210**		210	2500	1.24	1.094	1
PCB 154	ND	U	187	2500			1
PCB 144	**505**	J	205	2500	1.29	1.111	1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Dup-PCBs	**Units:**	pg
Lab Code:	E1101017-011	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/28/11 1305
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142193	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142188

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	**8110**		299	2500	1.23	1.122	1
PCB 134	**588**	J	364	2500	1.12	1.127	1
PCB 143	ND	U	310	2500			1
PCBs 139 + 140	ND	U	303	2500			1
PCB 131	ND	U	342	2500			1
PCB 142	ND	U	331	5000			1
PCB 132	**2070**	J	354	2500	1.13	1.159	1
PCB 133	ND	U	325	2500			1
PCB 165	ND	U	383	5000			1
PCB 146	**850**	JK	371	2500	1.45	0.892	1
PCB 161	ND	U	237	5000			1
PCBs 153 + 168	**5310**		277	2500	1.29	0.905	1
PCB 141	**1520**		463	1000	1.21	0.910	1
PCB 130	ND	U	376	2500			1
PCB 137	ND	U	365	5000			1
PCB 164	ND	U	257	2500			1
PCBs 129 + 138 + 163	**4370**		319	2500	1.12	0.934	1
PCB 160	ND	U	265	2500			1
PCB 158	**430**	JK	247	1000	1.53	0.942	1
PCBs 128 + 166	**402**	J	305	2500	1.06	0.962	1
PCB 159	ND	U	489	5000			1
PCB 162	ND	U	495	5000			1
PCB 167	**575**	J	543	2500	1.10	1.000	1
PCBs 156 + 157	**1930**	J	639	2500	1.14	1.000	1
PCB 169	**943**	JK	572	2500	0.94	1.000	1
PCB 188	ND	U	323	2500			1
PCB 179	**1180**	J	213	2500	1.12	1.009	1
PCB 184	ND	U	204	5000			1
PCB 176	ND	U	205	5000			1
PCB 186	ND	U	376	5000			1
PCB 178	ND	U	283	2500			1
PCB 175	ND	U	270	5000			1
PCB 187	**1530**	J	267	2500	1.11	1.101	1
PCB 182	ND	U	281	5000			1
PCB 183	ND	U	493	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Dup-PCBs	**Units:**	pg
Lab Code:	E1101017-011	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/28/11 1305
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142193	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142188

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	ND	U	595	5000			1
PCB 174	**779**	J	611	2500	0.99	1.124	1
PCB 177	ND	U	595	2500			1
PCB 181	ND	U	588	5000			1
PCBs 171 + 173	ND	U	613	5000			1
PCB 172	ND	U	625	5000			1
PCB 192	ND	U	510	5000			1
PCBs 180 + 193	**1170**	J	525	2500	1.05	0.916	1
PCB 191	ND	U	469	5000			1
PCB 170	ND	U	668	2500			1
PCB 190	ND	U	495	2500			1
PCB 189	ND	U	665	2500			1
PCB 202	ND	U	449	5000			1
PCB 201	ND	U	316	5000			1
PCB 204	ND	U	321	5000			1
PCB 197	ND	U	321	5000			1
PCB 200	ND	U	340	5000			1
PCBs 198 + 199	ND	U	488	2500			1
PCB 196	ND	U	530	5000			1
PCB 203	ND	U	497	5000			1
PCB 195	ND	U	546	5000			1
PCB 194	ND	U	558	2500			1
PCB 205	ND	U	581	5000			1
PCB 208	ND	U	800	5000			1
PCB 207	ND	U	750	5000			1
PCB 206	ND	U	1250	5000			1
PCB 209	**18000**		625	2500	1.20	1.000	1
Total MonoCB	**8260**		175	1000			1
Total DiCB	**325000**		6600	6600			1
Total TriCB	**714000**		520	2500			1
Total TetraCB	**745000**		333	2500			1
Total PentaCB	**90200**		257	5000			1
Total HexaCB	**33500**		148	5000			1
Total HeptaCB	**4660**	J	204	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Dup-PCBs	**Units:**	pg
Lab Code:	E1101017-011	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/28/11 1305
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142193	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142188

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	ND	U	316	5000			1
Total NonaCB	ND	U	750	5000			1
Total PCBs	**1950000**		148	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Dup-PCBs	**Units:**	Percent
Lab Code:	E1101017-011	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/28/11 1305
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142193	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142188

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	7115.677	71		15-150	3.26	0.743
PCB 3L	10000	7580.600	76		15-150	3.22	0.871
PCB 4L	10000	6466.978	65		25-150	1.47	0.885
PCB 15L	10000	8084.113	81		25-150	1.65	1.226
PCB 19L	10000	8070.426	81		25-150	1.02	1.065
PCB 37L	10000	10665.046	107		25-150	1.17	1.082
PCB 54L	10000	5858.343	59		25-150	0.85	0.829
PCB 81L	10000	9456.536	95		25-150	0.77	1.336
PCB 77L	10000	9680.987	97		25-150	0.82	1.357
PCB 104L	10000	6356.843	64		25-150	1.61	0.823
PCB 123L	10000	9612.814	96		25-150	1.68	1.138
PCB 118L	10000	9370.955	94		25-150	1.64	1.148
PCB 114L	10000	9782.541	98		25-150	1.61	1.163
PCB 105L	10000	9490.642	95		25-150	1.59	1.182
PCB 126L	10000	9937.390	99		25-150	1.51	1.274
PCB 155L	10000	6032.383	60		25-150	1.21	0.801
PCB 167L	10000	7302.839	73	K	25-150	1.46	1.072
PCBs 156L + 157L	20000	18060.650	90		25-150	1.30	1.100
PCB 169L	10000	9505.739	95		25-150	1.26	1.177
PCB 188L	10000	7535.597	75		25-150	1.07	0.728
PCB 189L	10000	8476.257	85		25-150	0.98	0.961
PCB 202L	10000	7270.634	73		25-150	0.92	0.828
PCB 205L	10000	6635.019	66		25-150	0.95	1.008
PCB 208L	10000	7905.808	79		25-150	0.80	0.951
PCB 206L	10000	9064.135	91		25-150	0.82	1.041
PCB 209L	10000	6138.302	61		25-150	1.18	1.070
PCB 28L	10000	9206.428	92		30-135	0.97	0.930
PCB 111L	10000	8034.860	80		30-135	1.59	1.080
PCB 178L	10000	6661.700	67		30-135	1.00	1.010
PCB 8L	10000	886.045	9	Y	25-150	1.35	0.855
PCB 70L	10000	9333.922	93		25-150	0.82	0.883

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	10/16/11 0000
Sample Matrix:	Air	**Date Received:**	10/19/11
Sample Name:	B4-Dup-PCBs	**Units:**	pg
Lab Code:	E1101017-011	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
PCB 81	**1020**	517	2500	1	0.0003	0.306
PCB 77	**2530**	556	2500	1	0.0001	0.253
PCB 123	**769**	417	2500	1	0.00003	0.0231
PCB 118	**7330**	432	2500	1	0.00003	0.220
PCB 114	**459**	399	2500	1	0.00003	0.0138
PCB 105	**2320**	438	1000	1	0.00003	0.0696
PCB 126	**1320**	511	2500	1	0.1	132
PCB 167	**575**	543	2500	1	0.00003	0.0173
PCBs 156 + 157	**1930**	639	2500	1	0.00003	0.0579
PCB 169	**943**	572	2500	1	0.03	28.3
PCB 189	ND	665	2500	1	0.00003	
		Total TEQ				161

2005 WHO TEFs, ND = 0

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg
Lab Code:	EQ1100494-01	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1045
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142056	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	ND	U	29.6	1000			1
PCB 2	ND	U	34.1	50.0			1
PCB 3	**41.4**	JK	33.5	1000	1.59	1.001	1
PCB 4	ND	U	2010	2500			1
PCB 10	ND	U	1190	1190			1
PCB 9	ND	U	2140	2140			1
PCB 7	ND	U	1970	1970			1
PCB 6	ND	U	2100	2100			1
PCB 5	ND	U	2140	2140			1
PCB 8	ND	U	2070	2500			1
PCB 14	ND	U	2080	2080			1
PCB 11	ND	U	2050	2050			1
PCBs 12 + 13	ND	U	2070	2070			1
PCB 15	ND	U	2000	2500			1
PCB 19	ND	U	959	959			1
PCBs 18 + 30	ND	U	743	2500			1
PCB 17	ND	U	861	1000			1
PCB 27	ND	U	668	1000			1
PCB 24	ND	U	603	1000			1
PCB 16	ND	U	1130	1130			1
PCB 32	ND	U	623	1000			1
PCB 34	ND	U	195	1000			1
PCB 23	ND	U	180	1000			1
PCBs 26 + 29	ND	U	192	1000			1
PCB 25	ND	U	175	1000			1
PCB 31	ND	U	194	2500			1
PCBs 20 + 28	ND	U	165	2500			1
PCBs 21 + 33	ND	U	198	1000			1
PCB 22	ND	U	201	1000			1
PCB 36	ND	U	201	1000			1
PCB 39	ND	U	179	1000			1
PCB 38	ND	U	214	1000			1
PCB 35	ND	U	221	1000			1
PCB 37	ND	U	221	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg
Lab Code:	EQ1100494-01	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1045
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142056	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 54	ND	U	31.0	2500			1
PCBs 50 + 53	ND	U	49.4	1000			1
PCBs 45 + 51	ND	U	51.3	1000			1
PCB 46	ND	U	59.6	1000			1
PCB 52	**105**	J	49.5	2500	0.78	1.203	1
PCBs 43 + 73	ND	U	45.2	2500			1
PCBs 49 + 69	ND	U	44.3	2500			1
PCB 48	ND	U	48.7	1000			1
PCBs 44 + 47 + 65	**161**	J	45.4	2500	0.86	1.250	1
PCBs 59 + 62 + 75	ND	U	38.8	1000			1
PCB 42	ND	U	54.8	1000			1
PCBs 41 + 71 + 40	ND	U	50.4	2500			1
PCB 64	ND	U	37.7	1000			1
PCB 72	ND	U	38.2	2500			1
PCB 68	ND	U	34.6	2500			1
PCB 57	ND	U	40.7	2500			1
PCB 58	ND	U	38.0	2500			1
PCB 67	ND	U	38.0	2500			1
PCB 63	ND	U	40.6	2500			1
PCBs 70 + 61 + 74 + 76	**65.3**	J	38.0	2500	0.87	0.884	1
PCB 66	ND	U	39.6	2500			1
PCB 55	ND	U	40.3	2500			1
PCB 56	ND	U	26.1	1000			1
PCB 60	ND	U	27.0	2500			1
PCB 80	ND	U	25.5	2500			1
PCB 79	ND	U	26.2	2500			1
PCB 78	ND	U	30.2	2500			1
PCB 81	ND	U	33.4	2500			1
PCB 77	ND	U	30.6	2500			1
PCB 104	ND	U	32.6	2500			1
PCB 96	ND	U	29.7	2500			1
PCB 103	ND	U	35.0	2500			1
PCB 94	ND	U	39.6	2500			1
PCB 95	**82.5**	J	39.0	2500	1.51	1.107	1
PCBs 93 + 100	ND	U	37.9	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg
Lab Code:	EQ1100494-01	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1045
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142056	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 98 + 102	ND	U	36.7	2500			1
PCBs 88 + 91	ND	U	39.5	2500			1
PCB 84	ND	U	44.9	2500			1
PCB 89	ND	U	46.6	2500			1
PCB 121	ND	U	24.7	2500			1
PCB 92	ND	U	35.7	2500			1
PCBs 90 + 101 + 113	**85.6**	J	31.1	5000	1.45	0.879	1
PCBs 83 + 99	ND	U	33.9	2500			1
PCB 112	ND	U	27.0	5000			1
PCBs 86 + 87 + 97 + 109 + 119 + 125	ND	U	30.3	2500			1
PCB 117	ND	U	26.5	1000			1
PCBs 85 + 116	ND	U	30.3	1000			1
PCBs 110 + 115	ND	U	25.6	5000			1
PCB 82	ND	U	42.2	2500			1
PCB 111	ND	U	25.3	5000			1
PCB 120	ND	U	26.6	2500			1
PCBs 108 + 124	ND	U	43.4	5000			1
PCB 107	ND	U	38.0	5000			1
PCB 123	ND	U	41.2	2500			1
PCB 106	ND	U	42.9	2500			1
PCB 118	ND	U	43.1	2500			1
PCB 122	ND	U	44.9	2500			1
PCB 114	ND	U	41.5	2500			1
PCB 105	ND	U	42.2	1000			1
PCB 127	ND	U	43.9	5000			1
PCB 126	ND	U	50.2	2500			1
PCB 155	ND	U	33.2	5000			1
PCB 152	ND	U	30.6	5000			1
PCB 150	ND	U	27.8	5000			1
PCB 136	ND	U	31.7	1000			1
PCB 145	ND	U	29.6	5000			1
PCB 148	ND	U	41.6	5000			1
PCBs 135 + 151	ND	U	40.9	2500			1
PCB 154	ND	U	35.9	2500			1
PCB 144	ND	U	40.4	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg
Lab Code:	EQ1100494-01	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1045
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142056	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 147 + 149	ND	U	44.7	2500			1
PCB 134	ND	U	56.0	2500			1
PCB 143	ND	U	51.0	2500			1
PCBs 139 + 140	ND	U	45.5	2500			1
PCB 131	ND	U	53.6	2500			1
PCB 142	ND	U	54.4	5000			1
PCB 132	ND	U	51.0	2500			1
PCB 133	ND	U	52.7	2500			1
PCB 165	ND	U	38.7	5000			1
PCB 146	ND	U	45.1	2500			1
PCB 161	ND	U	40.0	5000			1
PCBs 153 + 168	ND	U	40.9	2500			1
PCB 141	ND	U	51.8	1000			1
PCB 130	ND	U	59.1	2500			1
PCB 137	ND	U	48.8	5000			1
PCB 164	ND	U	40.0	2500			1
PCBs 129 + 138 + 163	ND	U	46.2	2500			1
PCB 160	ND	U	37.0	2500			1
PCB 158	ND	U	35.5	1000			1
PCBs 128 + 166	ND	U	43.9	2500			1
PCB 159	ND	U	70.3	5000			1
PCB 162	ND	U	66.0	5000			1
PCB 167	ND	U	72.3	2500			1
PCBs 156 + 157	ND	U	95.3	2500			1
PCB 169	ND	U	72.8	2500			1
PCB 188	ND	U	38.0	2500			1
PCB 179	ND	U	30.2	2500			1
PCB 184	ND	U	27.5	5000			1
PCB 176	ND	U	31.2	5000			1
PCB 186	ND	U	30.1	5000			1
PCB 178	ND	U	41.6	2500			1
PCB 175	ND	U	39.9	5000			1
PCB 187	ND	U	34.5	2500			1
PCB 182	ND	U	46.4	5000			1
PCB 183	ND	U	68.6	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg
Lab Code:	EQ1100494-01	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1045
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142056	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 185	ND	U	64.9	5000			1
PCB 174	ND	U	71.8	2500			1
PCB 177	ND	U	79.0	2500			1
PCB 181	ND	U	67.2	5000			1
PCBs 171 + 173	ND	U	79.1	5000			1
PCB 172	ND	U	83.2	5000			1
PCB 192	ND	U	60.2	5000			1
PCBs 180 + 193	ND	U	64.7	2500			1
PCB 191	ND	U	61.7	5000			1
PCB 170	ND	U	86.6	2500			1
PCB 190	ND	U	66.3	2500			1
PCB 189	ND	U	66.8	2500			1
PCB 202	ND	U	45.8	5000			1
PCB 201	ND	U	39.1	5000			1
PCB 204	ND	U	40.3	5000			1
PCB 197	ND	U	38.5	5000			1
PCB 200	ND	U	39.3	5000			1
PCBs 198 + 199	ND	U	57.8	2500			1
PCB 196	ND	U	59.6	5000			1
PCB 203	ND	U	51.1	5000			1
PCB 195	ND	U	66.3	5000			1
PCB 194	ND	U	69.3	2500			1
PCB 205	ND	U	67.8	5000			1
PCB 208	ND	U	69.9	5000			1
PCB 207	ND	U	65.3	5000			1
PCB 206	ND	U	78.1	5000			1
PCB 209	ND	U	69.6	2500			1
Total MonoCB	**41.4**	J	29.6	1000			1
Total DiCB	ND	U	1190	2500			1
Total TriCB	ND	U	165	2500			1
Total TetraCB	**331**	J	25.5	2500			1
Total PentaCB	**168**	J	24.7	5000			1
Total HexaCB	ND	U	27.8	5000			1
Total HeptaCB	ND	U	27.5	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg
Lab Code:	EQ1100494-01	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1045
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142056	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total OctaCB	ND	U	38.5	5000			1
Total NonaCB	ND	U	65.3	5000			1
Total PCBs	**541**	J	24.7	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ1100494-01	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 1045
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142056	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	6623.631	66		15-150	3.00	0.744
PCB 3L	10000	7244.625	72		15-150	3.06	0.870
PCB 4L	10000	7608.146	76		25-150	1.57	0.884
PCB 15L	10000	7293.760	73		25-150	1.59	1.228
PCB 19L	10000	8441.510	84		25-150	0.99	1.066
PCB 37L	10000	6962.153	70		25-150	1.10	1.082
PCB 54L	10000	5597.583	56		25-150	0.80	0.832
PCB 81L	10000	7040.917	70		25-150	0.80	1.335
PCB 77L	10000	8317.482	83		25-150	0.80	1.356
PCB 104L	10000	5573.866	56		25-150	1.56	0.824
PCB 123L	10000	5974.456	60		25-150	1.52	1.139
PCB 118L	10000	5743.463	57		25-150	1.61	1.148
PCB 114L	10000	6023.132	60		25-150	1.62	1.164
PCB 105L	10000	6229.294	62		25-150	1.64	1.183
PCB 126L	10000	6637.890	66		25-150	1.58	1.276
PCB 155L	10000	6522.651	65		25-150	1.22	0.800
PCB 167L	10000	5994.639	60		25-150	1.25	1.072
PCBs 156L + 157L	20000	13129.102	66		25-150	1.26	1.100
PCB 169L	10000	7774.271	78		25-150	1.25	1.178
PCB 188L	10000	7053.784	71		25-150	1.07	0.728
PCB 189L	10000	7957.844	80		25-150	1.04	0.961
PCB 202L	10000	7037.326	70		25-150	0.91	0.828
PCB 205L	10000	6385.155	64		25-150	0.90	1.009
PCB 208L	10000	7279.492	73		25-150	0.75	0.952
PCB 206L	10000	7568.992	76		25-150	0.78	1.041
PCB 209L	10000	5580.568	56		25-150	1.18	1.070
PCB 28L	10000	6749.665	67		30-135	1.08	0.931
PCB 111L	10000	7586.242	76		30-135	1.57	1.081
PCB 178L	10000	7114.984	71		30-135	1.07	1.011
PCB 8L	10000	9379.669	94		25-150	1.56	0.852
PCB 70L	10000	9350.080	94		25-150	0.81	0.883

Columbia Analytical Services INC

Accuracy and Precision

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Terracon Environmental
Project: Bannister Complex/02107144
Sample Matrix: Air

Service Request: E1101017
Date Analyzed: 11/ 7/11

Lab Control Sample Summary
PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method: CARB 428
Prep Method: Method

Units: pg
Basis: NA

Extraction Lot: 144597

	Lab Control Sample EQ1100494-02			Duplicate Lab Control Sample EQ1100494-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
PCB 1	5820	5000	116	5510	5000	110	50 - 150	5	50
PCB 3	5870	5000	117	5650	5000	113	50 - 150	3	50
PCB 4	5850	5000	117	5900	5000	118	50 - 150	<1	50
PCB 15	5930	5000	119	5650	5000	113	50 - 150	5	50
PCB 19	6300	5000	126	5400	5000	108	50 - 150	15	50
PCB 37	5390	5000	108	5010	5000	100	50 - 150	8	50
PCB 54	6090	5000	122	5810	5000	116	50 - 150	5	50
PCB 81	6340	5000	127	5860	5000	117	50 - 150	8	50
PCB 77	5910	5000	118	5480	5000	110	50 - 150	7	50
PCB 104	5630	5000	113	5450	5000	109	50 - 150	4	50
PCB 123	5870	5000	117	5500	5000	110	50 - 150	6	50
PCB 118	5750	5000	115	5440	5000	109	50 - 150	5	50
PCB 114	5940	5000	119	5560	5000	111	50 - 150	7	50
PCB 105	6060	5000	121	5720	5000	114	50 - 150	6	50
PCB 126	6710	5000	134	6220	5000	124	50 - 150	8	50
PCB 155	5690	5000	114	5490	5000	110	50 - 150	4	50
PCB 167	5860	5000	117	5320	5000	106	50 - 150	10	50
PCBs 156 + 157	11800	10000	118	10900	10000	109	50 - 150	8	50
PCB 169	5940	5000	119	5630	5000	113	50 - 150	5	50
PCB 188	6430	5000	129	6140	5000	123	50 - 150	5	50
PCB 189	6050	5000	121	5780	5000	116	50 - 150	4	50
PCB 202	6160	5000	123	5980	5000	120	50 - 150	2	50
PCB 205	6990	5000	140	6610	5000	132	50 - 150	6	50
PCB 208	6250	5000	125	6080	5000	122	50 - 150	2	50
PCB 206	5850	5000	117	5670	5000	113	50 - 150	3	50
PCB 209	7500	5000	150	7070	5000	141	50 - 150	6	50

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg
Lab Code:	EQ1100494-02	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 0754
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142054	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	**5820**		9.53	1000	3.14	1.001	1
PCB 3	**5870**		10.8	1000	3.10	1.000	1
PCB 4	**5850**		523	2500	1.69	1.000	1
PCB 15	**5930**		241	2500	1.58	1.001	1
PCB 19	**6300**		41.6	500	1.03	1.000	1
PCB 37	**5390**		11.6	2500	1.01	1.001	1
PCB 54	**6090**		11.3	2500	0.76	1.001	1
PCB 81	**6340**		11.0	2500	0.78	1.000	1
PCB 77	**5910**		11.1	2500	0.76	1.001	1
PCB 104	**5630**		8.74	2500	1.56	1.001	1
PCB 123	**5870**		13.0	2500	1.55	1.001	1
PCB 118	**5750**		13.1	2500	1.57	1.001	1
PCB 114	**5940**		12.8	2500	1.56	1.000	1
PCB 105	**6060**		13.4	1000	1.52	1.001	1
PCB 126	**6710**		14.7	2500	1.55	1.001	1
PCB 155	**5690**		9.22	5000	1.22	1.001	1
PCB 167	**5860**		7.94	2500	1.24	1.000	1
PCBs 156 + 157	**11800**		10.7	2500	1.23	1.000	1
PCB 169	**5940**		8.45	2500	1.25	1.000	1
PCB 188	**6430**		8.17	2500	1.04	1.001	1
PCB 189	**6050**		5.88	2500	1.05	1.000	1
PCB 202	**6160**		8.69	5000	0.89	1.000	1
PCB 205	**6990**		12.7	5000	0.89	1.000	1
PCB 208	**6250**		16.6	5000	0.77	1.000	1
PCB 206	**5850**		55.4	5000	0.76	1.000	1
PCB 209	**7500**		13.4	2500	1.19	1.001	1
Total MonoCB	**11700**		9.53	1000			1
Total DiCB	**11800**		241	2500			1
Total TriCB	**11700**		11.6	2500			1
Total TetraCB	**18300**		11.0	2500			1
Total PentaCB	**36000**		8.74	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg
Lab Code:	EQ1100494-02	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 0754
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142054	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total HexaCB	**29300**		7.94	5000			1
Total HeptaCB	**12500**		5.88	5000			1
Total OctaCB	**13100**		8.69	5000			1
Total NonaCB	**12100**		16.6	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ1100494-02	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 0754
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142054	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	5086.884	51		15-150	3.04	0.742
PCB 3L	10000	5912.925	59		15-150	3.06	0.870
PCB 4L	10000	5378.543	54		25-150	1.51	0.884
PCB 15L	10000	6019.980	60		25-150	1.60	1.230
PCB 19L	10000	4865.107	49		25-150	1.04	1.069
PCB 37L	10000	6263.621	63		25-150	1.06	1.082
PCB 54L	10000	3618.049	36		25-150	0.80	0.834
PCB 81L	10000	6304.442	63		25-150	0.79	1.335
PCB 77L	10000	6587.088	66		25-150	0.78	1.356
PCB 104L	10000	5085.086	51		25-150	1.52	0.824
PCB 123L	10000	5809.726	58		25-150	1.58	1.138
PCB 118L	10000	5742.679	57		25-150	1.60	1.148
PCB 114L	10000	5923.538	59		25-150	1.64	1.164
PCB 105L	10000	6022.455	60		25-150	1.59	1.182
PCB 126L	10000	6438.902	64		25-150	1.59	1.275
PCB 155L	10000	5299.040	53		25-150	1.24	0.800
PCB 167L	10000	6058.798	61		25-150	1.25	1.072
PCBs 156L + 157L	20000	12795.166	64		25-150	1.26	1.100
PCB 169L	10000	7281.870	73		25-150	1.27	1.177
PCB 188L	10000	6390.269	64		25-150	1.05	0.728
PCB 189L	10000	6773.392	68		25-150	1.04	0.962
PCB 202L	10000	5897.549	59		25-150	0.89	0.828
PCB 205L	10000	5299.170	53		25-150	0.90	1.009
PCB 208L	10000	6222.533	62		25-150	0.79	0.952
PCB 206L	10000	6186.853	62		25-150	0.76	1.041
PCB 209L	10000	4691.910	47		25-150	1.19	1.071
PCB 28L	10000	5653.268	57		30-135	1.06	0.932
PCB 111L	10000	6090.557	61		30-135	1.56	1.081
PCB 178L	10000	5646.707	56		30-135	1.03	1.011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg
Lab Code:	EQ1100494-03	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 0857
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142055	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	**5510**		9.67	1000	3.09	1.001	1
PCB 3	**5650**		11.6	1000	3.10	1.001	1
PCB 4	**5900**		340	2500	1.53	1.001	1
PCB 15	**5650**		732	2500	1.50	1.001	1
PCB 19	**5400**		125	500	1.04	1.001	1
PCB 37	**5010**		37.6	2500	1.02	1.001	1
PCB 54	**5810**		12.3	2500	0.77	1.001	1
PCB 81	**5860**		12.5	2500	0.77	1.000	1
PCB 77	**5480**		13.0	2500	0.78	1.000	1
PCB 104	**5450**		10.1	2500	1.56	1.001	1
PCB 123	**5500**		14.6	2500	1.57	1.000	1
PCB 118	**5440**		14.6	2500	1.54	1.000	1
PCB 114	**5560**		14.0	2500	1.57	1.000	1
PCB 105	**5720**		14.2	1000	1.55	1.001	1
PCB 126	**6220**		15.5	2500	1.57	1.000	1
PCB 155	**5490**		19.2	5000	1.25	1.001	1
PCB 167	**5320**		15.0	2500	1.22	1.001	1
PCBs 156 + 157	**10900**		19.8	2500	1.22	1.000	1
PCB 169	**5630**		15.4	2500	1.29	1.001	1
PCB 188	**6140**		13.4	2500	1.03	1.000	1
PCB 189	**5780**		8.87	2500	1.03	1.001	1
PCB 202	**5980**		13.5	5000	0.90	1.000	1
PCB 205	**6610**		17.3	5000	0.89	1.000	1
PCB 208	**6080**		17.3	5000	0.78	1.000	1
PCB 206	**5670**		46.0	5000	0.78	1.001	1
PCB 209	**7070**		24.2	2500	1.18	1.000	1
Total MonoCB	**11200**		9.67	1000			1
Total DiCB	**11500**		340	2500			1
Total TriCB	**10400**		37.6	2500			1
Total TetraCB	**17100**		12.3	2500			1
Total PentaCB	**33900**		10.1	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	pg
Lab Code:	EQ1100494-03	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 0857
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142055	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total HexaCB	**27300**		15.0	5000			1
Total HeptaCB	**11900**		8.87	5000			1
Total OctaCB	**12600**		13.5	5000			1
Total NonaCB	**11700**		17.3	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Terracon Environmental	**Service Request:**	E1101017
Project:	Bannister Complex/02107144	**Date Collected:**	NA
Sample Matrix:	Air	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	Percent
Lab Code:	EQ1100494-03	**Basis:**	NA

PCDD, PCDF, and Polychlorinated Biphenyl Emissions from Stationary Sources for State of California

Analytical Method:	CARB 428	**Date Analyzed:**	11/7/11 0857
Prep Method:	Method	**Date Extracted:**	10/20/11
Sample Amount:	1.0000	**Instrument Name:**	E-HRMS-01
		GC Column:	SPB-OCTYL
Data File Name:	U142055	**Blank File Name:**	U142056
ICAL Date:	02/23/11	**Cal Ver. File Name:**	U142053

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	6395.277	64		15-150	3.01	0.743
PCB 3L	10000	7268.316	73		15-150	3.07	0.870
PCB 4L	10000	6926.647	69		25-150	1.55	0.885
PCB 15L	10000	8091.249	81		25-150	1.59	1.224
PCB 19L	10000	7732.865	77		25-150	0.89	1.067
PCB 37L	10000	7680.908	77		25-150	1.07	1.083
PCB 54L	10000	5423.035	54		25-150	0.79	0.831
PCB 81L	10000	8346.139	83		25-150	0.81	1.336
PCB 77L	10000	8601.764	86		25-150	0.79	1.357
PCB 104L	10000	6144.453	61		25-150	1.55	0.824
PCB 123L	10000	6894.090	69		25-150	1.57	1.138
PCB 118L	10000	6787.068	68		25-150	1.62	1.148
PCB 114L	10000	7211.065	72		25-150	1.63	1.164
PCB 105L	10000	7223.137	72		25-150	1.61	1.183
PCB 126L	10000	7776.180	78		25-150	1.61	1.275
PCB 155L	10000	6663.136	67		25-150	1.21	0.800
PCB 167L	10000	7084.926	71		25-150	1.27	1.072
PCBs 156L + 157L	20000	15007.332	75		25-150	1.25	1.100
PCB 169L	10000	8797.070	88		25-150	1.26	1.177
PCB 188L	10000	7115.477	71		25-150	1.03	0.728
PCB 189L	10000	8280.819	83		25-150	1.03	0.961
PCB 202L	10000	6951.980	70		25-150	0.91	0.828
PCB 205L	10000	6921.862	69		25-150	0.91	1.009
PCB 208L	10000	7458.408	75		25-150	0.76	0.952
PCB 206L	10000	7786.359	78		25-150	0.77	1.041
PCB 209L	10000	5848.681	58		25-150	1.19	1.071
PCB 28L	10000	6240.841	62		30-135	1.08	0.932
PCB 111L	10000	6955.008	70		30-135	1.57	1.080
PCB 178L	10000	6457.761	65		30-135	1.05	1.011

Columbia Analytical Services INC

Chain of Custody

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

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DATE 10-18-11 PAGE 1 OF 2

PROJECT NAME Bannister Complex
PROJECT # 02107144
COMPANY/ADDRESS Terracon Consultants Inc
13910 West 96th Terrace
Lenexa, Kansas 66215 PHONE 913-492-7777
REPORT TO: Wil King

ANALYSIS REQUEST

SAMPLE I.D.	DATE	TIME	SAMPLE MATRIX	NUMBER OF CONTAINERS	8290	1613B	1613 TCDD only	1668 WHO	1668 Full List	CARB-429 (congener method)												REMARKS
B4CS-SS1-PCBs	10/15/11	1950	Mini-PUF	1						X												
B4CS-SS2-PCBs	10/15/11	1950	Mini-PUF	1						X												
B4-SSBlank-PCBs	10/15/11	—	Mini-PUF	1						X												
B4CS-CS1-PCBs	10/16/11	2010	PUF	1						X												
B4CS-CS2-PCBs	10/16/11	2008	PUF	1						X												
B4-IA1-PCBs	10/16/11	2043	PUF	1						X												
B4-IA2-PCBs	10/16/11	2045	PUF	1						X												
B4-OA1-PCBs	10/16/11	2034	PUF	1						X												
B4-OA2-PCBs	10/16/11	2028	PUF	1						X												
B4-Blank-PCBs	10/16/11	—	PUF	1						X												

RELINQUISHED BY:
Signature
Christopher S Cast
Printed Name
Terracon Consultants Inc
Firm
10-18-11/1530
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS (in working days)
RUSH .....5 Days
RUSH .....10 Days
(STD) .....15 DAYS

DELIVERABLES
___ I. Analytical Report
___ II. Analytical Report + QC
X IV. Data Validation Report (includes All Raw Data)

INVOICE INFORMATION:
P.O.# 02107144
Bill To Wil King

SAMPLE RECEIPT:
Opened by:
Inspected by:
Date:
Time:

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Ty Laffert
Printed Name
CAS-Houston
Firm
10-19-11 949
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:
Iscal 4°C
vertical/Bubblewrap
Trk# 8762 5965 1090

SAMPLER'S SIGNATURE

DISTRIBUTION: WHITE - return to originator; YELLOW - retained by originator

coc11-09

Columbia Analytical Services

Cooler Receipt Form

Project Chemist: MC

Client/Project: Terracon Consultants Inc.; Bannister Complex (02107144)

Service Request: E1101017

Date/Time Received: 10/19/11 09:49:00

Date/Time Logged in: 10/19/11 12:06:00

Technician: TL

Technician: EB

1. Method of delivery: ○ US Mail ◉ Fed Ex ○ UPS ○ DHL ○ Courier ○ Client

2. Samples received in: ◉ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ◉ No ○ N/A

Were they intact? ○ Yes ○ No ◉ N/A

Were they signed and dated? ○ Yes ○ No ◉ N/A

If yes, how many and where?

4. Method of delivery: ○ Inserts ○ Baggies ☑ Bubble Wrap ○ Gel Packs ☑ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ◉ No

Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?	Filed
876259651090	None	Oct 19, 2011	09:49	TL	4/4	☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ◉ Yes ○ No ○ N/A

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ◉ Yes ○ No ○ N/A

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ◉ Yes ○ No ○ N/A

9. Were appropriate bottles/containers and volumes received for the requested tests? ◉ Yes ○ No ○ N/A

10. Did sample labels and tags agree with custody documents? ◉ Yes ○ No ○ N/A

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Broken	Date	Technician
			☐	☐		
			☐	☐		
			☐	☐		
			☐	☐		

Notes, Discrepancies, & Resolutions:

Print Form

Reset Form

CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

Columbia Analytical Services INC 19408 Park Row, Ste 320 • Houston, TX 77084 • (713) 266-1599 • FAX (713) 266-0130

DATE 10-18-11 PAGE 2 OF 2

PROJECT NAME Bannister Complex
PROJECT # 02107144
COMPANY/ADDRESS Terracon Consultants Inc
13910 West 96th Terrace
Lenexa, Kansas 66215 PHONE 913-492-7777
REPORT TO: Wil King

ANALYSIS REQUEST

SAMPLE I.D.	DATE	TIME	SAMPLE MATRIX	NUMBER OF CONTAINERS	8290	1613B	1613 TCDD only	1668 WHO	1668 Full List	CARB-428 (Congeneric Method)												REMARKS
B4-Dup-PCBs	10/16/11	—	PUF	1						X												

RELINQUISHED BY:
Signature
Christopher S Cost
Printed Name
Terracon Consultants Inc
Firm
10-18-11/1530
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS (in working days)
RUSH .....5 Days
RUSH .....10 Days
STD .....15 DAYS

DELIVERABLES
___ I. Analytical Report
___ II. Analytical Report + QC
X IV. Data Validation Report (includes All Raw Data)

INVOICE INFORMATION:
P.O.# 02107144
Bill To Wil King

SAMPLE RECEIPT:
Opened by:
Inspected by:
Date:
Time:

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Ty Lafferty
Printed Name
CAS-Houston
Firm
10-19-11 9:40
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:
Iscal 4°C
wet ice/Bubble wrap
Tr# 876 > 5965 1092

SAMPLER'S SIGNATURE

DISTRIBUTION: WHITE - return to originator; YELLOW - retained by originator

coc11-09

Columbia Analytical Services INC

Sample Acceptance Policy

This policy outlines the criteria samples must meet to be accepted by CAS/ Houston.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sample
- ✓ The COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, CAS/Houston will complete a COC, which must be approved by the client, in writing, prior to proceeding with the analysis.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples can be shipped and stored at ambient temperature, ~23°C.
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder.

Service Request Summary

Folder #: **E1101017**
Client Name: Terracon Environmental
Project Name: Bannister Complex
Project Number: 02107144

Report To: Wil King
Terracon Environmental
13910 W. 96th Terrace
Lenexa, KS 66215
Phone Number: 913-492-7777 Ext. 430
Cell Number: 913-205-7390
Fax Number:
E-mail: wwking@terracon.com

Project Chemist: Michael Cosson
Originating Lab: HOUSTON
Logged By: TLAFFERTY
Date Received: 10/19/11
Internal Due Date: 11/14/11
QAP: 428 100uL FV
Qualifier Set: CAS Standard
Formset: CAS Standard
Merged?: N
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

11 - 1 each-Cartridge PUF/Filter (High Volume)

Location: E-Disposed, In Lab

CAS Samp No	Client Samp No.	Matrix	Collected		SVM CARB 428/ CA PCB
E1101017-001	B4CS-SS1-PCBs	Air	10/15/11	1950	IV
E1101017-002	B4CS-SS2-PCBs	Air	10/15/11	1950	IV
E1101017-003	B4-SSBlank-PCBs	Air	10/15/11	0000	IV
E1101017-004	B4CS-CS1-PCBs	Air	10/16/11	2010	IV
E1101017-005	B4CS-CS2-PCBs	Air	10/16/11	2008	IV
E1101017-006	B4-IA1-PCBs	Air	10/16/11	2043	IV
E1101017-007	B4-IA2-PCBs	Air	10/16/11	2045	IV
E1101017-008	B4-OA1-PCBs	Air	10/16/11	2034	IV
E1101017-009	B4-OA2-PCBs	Air	10/16/11	2028	IV
E1101017-010	B4-Blank-PCBs	Air	10/16/11	0000	IV
E1101017-011	B4-Dup-PCBs	Air	10/16/11	0000	IV

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	CA PCB/CARB 428	1-11	Modified CARB 428; Using PUF trap for air analysis

Preparation Information Benchsheet

Prep Run#: 144597
Team: Semivoa GCMS/EBAUCH

Prep WorkFlow: OrgExtAir(45)
Prep Method: Method

Status: Prepped
Prep Date/Time: 10/20/11 11:10 AM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Sample Description
1	E1101017-001	B4CS-SS1-PCBs	01	CARB 428/CA PCB		Air	1 0000	small PUF
2	E1101017-002	B4CS-SS2-PCBs	01	CARB 428/CA PCB		Air	1 0000	small PUF
3	E1101017-003	B4-SSBlank-PCBs	01	CARB 428/CA PCB		Air	1 0000	small PUF
4	E1101017-004	B4CS-CS1-PCBs	01	CARB 428/CA PCB		Air	1 0000	large PUF
5	E1101017-005	B4CS-CS2-PCBs	01	CARB 428/CA PCB		Air	1 0000	large PUF
6	E1101017-006	B4-IA1-PCBs	01	CARB 428/CA PCB		Air	1 0000	large PUF
7	E1101017-007	B4-IA2-PCBs	01	CARB 428/CA PCB		Air	1 0000	large PUF
8	E1101017-008	B4-OA1-PCBs	01	CARB 428/CA PCB		Air	1 0000	large PUF
9	E1101017-009	B4-OA2-PCBs	01	CARB 428/CA PCB		Air	1 0000	large PUF
10	E1101017-010	B4-Blank-PCBs	01	CARB 428/CA PCB		Air	1 0000	large PUF
11	E1101017-011	B4-Dup-PCBs	01	CARB 428/CA PCB		Air	1 0000	large PUF
12	EQ1100494-01	MB		CARB 428/CA PCB		Air	1 0000	
13	EQ1100494-02	LCS		CARB 428/CA PCB		Air	1 0000	
14	EQ1100494-03	DLCS		CARB 428/CA PCB		Air	1 0000	

Preparation Information Benchsheet

Prep Run#: 144597 **Prep WorkFlow:** OrgExtAir(45) **Status:** Prepped
Team: Semivoa GCMS/EBAUCH **Prep Method:** Method **Prep Date/Time:** 10/20/11 11:10 AM

Spiking Solutions

Name:	1668A Clean Up Working Standard	Inventory ID	34968	Logbook Ref:	B4-30-1 (34968)	Expires On:	09/30/2012

E1101017-001	100 00µL	E1101017-002	100 00µL	E1101017-003	100 00µL	E1101017-004	100 00µL	E1101017-005	100 00µL	E1101017-006	100 00µL
E1101017-007	100 00µL	E1101017-008	100 00µL	E1101017-009	100 00µL	E1101017-010	100 00µL	E1101017-011	100 00µL	EQ1100494-01	100 00µL
EQ1100494-02	100 00µL	EQ1100494-03	100 00µL								

Name:	1668A Working Surrogate Standard	Inventory ID	35550	Logbook Ref:	B4-32-2 (35550)	Expires On:	10/12/2012

E1101017-001	100 00µL	E1101017-002	100 00µL	E1101017-003	100 00µL	E1101017-004	100 00µL	E1101017-005	100 00µL	E1101017-006	100 00µL
E1101017-007	100 00µL	E1101017-008	100 00µL	E1101017-009	100 00µL	E1101017-010	100 00µL	E1101017-011	100 00µL	EQ1100494-01	100 00µL
EQ1100494-02	100 00µL	EQ1100494-03	100 00µL								

Name:	1668A Labeled Working Standard	Inventory ID	35977	Logbook Ref:	B4-33-4 (35977)	Expires On:	10/20/2012

E1101017-001	1,000 00µL	E1101017-002	1,000 00µL	E1101017-003	1,000 00µL	E1101017-004	1,000 00µL	E1101017-005	1,000 00µL	E1101017-006	1,000 00µL
E1101017-007	1,000 00µL	E1101017-008	1,000 00µL	E1101017-009	1,000 00µL	E1101017-010	1,000 00µL	E1101017-011	1,000 00µL	EQ1100494-01	1,000 00µL
EQ1100494-02	1,000 00µL	EQ1100494-03	1,000 00µL								

Name:	1668A Working Matrix Standard	Inventory ID	35978	Logbook Ref:	B4-34-1 (35978)	Expires On:	09/27/2012

EQ1100494-02	1,000 00µL	EQ1100494-03	1,000 00µL

Preparation Materials

Acetone 99 5% Minimum	C2-39-7 (32865)	Extraction Thimbles 43 x123 mm	(1577)	Sulfuric Acid Reagent Grade H2SO4	C2-59-7 (33893)
Dichloromethane (Methylene Chloride) 99 9% MeCl2	C2-59-6 (33894)	Sodium Hydroxide Reagent Grade NaOH	C2-53-5 (27837)	Sodium Sulfate Anhydrous Reagent Grade Na2SO4	C2-58-3 (32779)
Hexane (n-Hexane) 98 5% Minimum	C2-60-1 (33798)	Nonane (n-Nonane) 99%	C2-33-001 (13944)	Silica Gel Reagent Grade	C2-56-5 (29769)
Toluene 99 9% Minimum	C2-61-3 (35695)				

Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	10/20/11 11:10	Started:	10/27/11 07:45	Started:	10/28/11 16:59	Started:	11/3/11 13:10
Finished:	10/21/11 15:35	Finished:	10/27/11 09:30	Finished:	10/28/11 18:03	Finished:	11/3/11 15:00
By:	EBAUCH	By:	EBAUCH	By:	EBAUCH	By:	EBAUCH
Comments:		Comments:		Comments:		Comments:	

Preparation Information Benchsheet

Prep Run#: 144597
Team: Semivoa GCMS/EBAUCH

Prep WorkFlow: OrgExtAir(45)
Prep Method: Method

Status: Prepped
Prep Date/Time: 10/20/11 11:10 AM

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Columbia Analytical Services INC

Chromatograms and Selected Ion Monitoring

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

An Employee Owned Company

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
METHOD BLANK

Run #10 Filename U142056 Samp: 1 Inj: 1 Acquired: 7-NOV-11 10:45:16
Processed: 11-NOV-11 10:38:14 Sample ID: EQ1100494-01

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	n	1.0712
2	1	PCB-2	NotFnd	*	*	*	n	n	0.9737
3	1	PCB-3	15:38	2.832e+01	1.782e+01	1.59	n	n	1.0363
4	1	PCB-4	NotFnd	*	*	*	n	n	1.1136
5	1	PCB-10	NotFnd	*	*	*	n	n	1.6837
6	2	PCB-9	NotFnd	*	*	*	n	n	1.0242
7	2	PCB-7	NotFnd	*	*	*	n	n	1.1123
8	2	PCB-6	NotFnd	*	*	*	n	n	1.0424
9	2	PCB-5	NotFnd	*	*	*	n	n	1.0258
10	2	PCB-8	NotFnd	*	*	*	n	n	1.0572
11	2	PCB-14	NotFnd	*	*	*	n	n	1.0525
12	2	PCB-11	NotFnd	*	*	*	n	n	1.0675
13	2	PCB-12/13	NotFnd	*	*	*	n	n	1.0575
14	2	PCB-15	NotFnd	*	*	*	n	n	0.9770
15	2	PCB-19	NotFnd	*	*	*	n	n	1.0009
16	2	PCB-18/30	NotFnd	*	*	*	n	n	1.2250
17	2	PCB-17	NotFnd	*	*	*	n	n	1.0561
18	2	PCB-27	NotFnd	*	*	*	n	n	1.3615
19	2	PCB-24	NotFnd	*	*	*	n	n	1.5084
20	2	PCB-16	NotFnd	*	*	*	n	n	0.8048
21	2	PCB-32	NotFnd	*	*	*	n	n	1.4609
22	3	PCB-34	NotFnd	*	*	*	n	n	1.2938
23	3	PCB-23	NotFnd	*	*	*	n	n	1.3987
24	3	PCB-26/29	NotFnd	*	*	*	n	n	1.3136
25	3	PCB-25	NotFnd	*	*	*	n	n	1.4403
26	3	PCB-31	NotFnd	*	*	*	n	n	1.2974
27	3	PCB-20/28	NotFnd	*	*	*	n	n	1.5320
28	3	PCB-21/33	NotFnd	*	*	*	n	n	1.2729
29	3	PCB-22	NotFnd	*	*	*	n	n	1.2528
30	3	PCB-36	NotFnd	*	*	*	n	n	1.2533
31	3	PCB-39	NotFnd	*	*	*	n	n	1.4050
32	3	PCB-38	NotFnd	*	*	*	n	n	1.1756
33	3	PCB-35	NotFnd	*	*	*	n	n	1.1391
34	3	PCB-37	NotFnd	*	*	*	n	n	1.0888
35	2	PCB-54	NotFnd	*	*	*	n	n	1.0020
36	3	PCB-50/53	NotFnd	*	*	*	n	n	1.1155
37	3	PCB-45/51	NotFnd	*	*	*	n	n	1.0759
38	3	PCB-46	NotFnd	*	*	*	n	n	0.9254
39	3	PCB-52	26:50	3.081e+01	3.973e+01	0.78	y	n	1.1134
40	3	PCB-43/73	NotFnd	*	*	*	n	n	1.2203
41	3	PCB-49/69	NotFnd	*	*	*	n	y	1.2452
42	3	PCB-48	NotFnd	*	*	*	n	n	1.1326
43	3	PCB-44/47/65	27:52	5.478e+01	6.392e+01	0.86	y	n	1.2147
44	3	PCB-59/62/75	NotFnd	*	*	*	n	n	1.4221
45	3	PCB-42	NotFnd	*	*	*	n	n	1.0059
46	3	PCB-40/41/71	NotFnd	*	*	*	n	n	1.0940
47	3	PCB-64	NotFnd	*	*	*	n	n	1.4615
48	3	PCB-72	NotFnd	*	*	*	n	n	1.4449
49	3	PCB-68	NotFnd	*	*	*	n	n	1.5967
50	3	PCB-57	NotFnd	*	*	*	n	n	1.3563

51	3	PCB-58	NotFnd	*	*	*	n	n	1.4503
52	3	PCB-67	NotFnd	*	*	*	n	n	1.4509
53	3	PCB-63	NotFnd	*	*	*	n	n	1.3590
54	3	PCB-61/70/74/76	31:38	2.674e+01	3.080e+01	0.87	y	n	1.4534
55	3	PCB-66	NotFnd	*	*	*	n	n	1.3938
56	3	PCB-55	NotFnd	*	*	*	n	n	1.3691
57	4	PCB-56	NotFnd	*	*	*	n	n	1.1839
58	4	PCB-60	NotFnd	*	*	*	n	n	1.1433
59	4	PCB-80	NotFnd	*	*	*	n	n	1.2092
60	4	PCB-79	NotFnd	*	*	*	n	n	1.1778
61	4	PCB-78	NotFnd	*	*	*	n	n	1.0212
62	4	PCB-81	NotFnd	*	*	*	n	n	1.0336
63	4	PCB-77	NotFnd	*	*	*	n	n	0.9953
64	3	PCB-104	NotFnd	*	*	*	n	n	1.0300
65	3	PCB-96	NotFnd	*	*	*	n	n	1.3990
66	3	PCB-103	NotFnd	*	*	*	n	n	1.1888
67	3	PCB-94	NotFnd	*	*	*	n	n	1.0505
68	3	PCB-95	30:45	3.138e+01	2.077e+01	1.51	y	n	1.0671
69	3	PCB-93/100	NotFnd	*	*	*	n	n	1.0956
70	3	PCB-98/102	NotFnd	*	*	*	n	n	1.1337
71	3	PCB-88/91	NotFnd	*	*	*	n	n	1.0531
72	3	PCB-84	NotFnd	*	*	*	n	n	0.9251
73	3	PCB-89	NotFnd	*	*	*	n	n	0.8923
74	4	PCB-121	NotFnd	*	*	*	n	n	1.3759
75	4	PCB-92	NotFnd	*	*	*	n	n	0.9539
76	4	PCB-90/101/113	33:43	3.275e+01	2.265e+01	1.45	y	y	1.0935
77	4	PCB-83/99	NotFnd	*	*	*	n	n	1.0026
78	4	PCB-112	NotFnd	*	*	*	n	n	1.2617
79	4	PCB-86/87/97/109/119/125	NotFnd	*	*	*	n	y	1.1249
80	4	PCB-117	NotFnd	*	*	*	n	n	1.2842
81	4	PCB-85/116	NotFnd	*	*	*	n	n	1.1228
82	4	PCB-110/115	NotFnd	*	*	*	n	y	1.3277
83	4	PCB-82	NotFnd	*	*	*	n	n	0.8069
84	4	PCB-111	NotFnd	*	*	*	n	n	1.3471
85	4	PCB-120	NotFnd	*	*	*	n	n	1.2806
86	5	PCB-108/124	NotFnd	*	*	*	n	n	0.8970
87	5	PCB-107	NotFnd	*	*	*	n	n	1.0243
88	5	PCB-123	NotFnd	*	*	*	n	n	1.0180
89	5	PCB-106	NotFnd	*	*	*	n	n	0.9060
90	5	PCB-118	NotFnd	*	*	*	n	n	0.9968
91	5	PCB-122	NotFnd	*	*	*	n	n	0.8654
92	5	PCB-114	NotFnd	*	*	*	n	n	0.9914
93	5	PCB-105	NotFnd	*	*	*	n	n	1.0109
94	5	PCB-127	NotFnd	*	*	*	n	n	0.8867
95	5	PCB-126	NotFnd	*	*	*	n	n	0.9601
96	4	PCB-155	NotFnd	*	*	*	n	n	0.9884
97	4	PCB-152	NotFnd	*	*	*	n	n	1.6130
98	4	PCB-150	NotFnd	*	*	*	n	n	1.7797
99	4	PCB-136	NotFnd	*	*	*	n	n	1.5580
100	4	PCB-145	NotFnd	*	*	*	n	n	1.6711
101	4	PCB-148	NotFnd	*	*	*	n	n	1.1864
102	4	PCB-135/151	NotFnd	*	*	*	n	n	1.2073
103	4	PCB-154	NotFnd	*	*	*	n	n	1.3758
104	4	PCB-144	NotFnd	*	*	*	n	n	1.2217
105	5	PCB-147/149	NotFnd	*	*	*	n	y	1.1573
106	5	PCB-134	NotFnd	*	*	*	n	n	0.9223
107	5	PCB-143	NotFnd	*	*	*	n	n	1.0137

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.1353
109	5	PCB-131	NotFnd	*	*	*	n	n	0.9651
110	5	PCB-142	NotFnd	*	*	*	n	n	0.9501
111	5	PCB-132	NotFnd	*	*	*	n	n	1.0129
112	5	PCB-133	NotFnd	*	*	*	n	n	0.9799
113	5	PCB-165	NotFnd	*	*	*	n	n	1.3353
114	5	PCB-146	NotFnd	*	*	*	n	n	1.1474
115	5	PCB-161	NotFnd	*	*	*	n	n	1.2913
116	5	PCB-153/168	NotFnd	*	*	*	n	n	1.2637
117	5	PCB-141	NotFnd	*	*	*	n	n	0.9985
118	5	PCB-130	NotFnd	*	*	*	n	n	0.8751
119	5	PCB-137	NotFnd	*	*	*	n	n	1.0586
120	5	PCB-164	NotFnd	*	*	*	n	n	1.2916
121	5	PCB-129/138/163	NotFnd	*	*	*	n	n	1.1198
122	5	PCB-160	NotFnd	*	*	*	n	n	1.3964
123	5	PCB-158	NotFnd	*	*	*	n	n	1.4562
124	5	PCB-128/166	NotFnd	*	*	*	n	n	1.1766
125	6	PCB-159	NotFnd	*	*	*	n	n	0.9082
126	6	PCB-162	NotFnd	*	*	*	n	n	0.9675
127	6	PCB-167	NotFnd	*	*	*	n	n	1.0081
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.0060
129	6	PCB-169	NotFnd	*	*	*	n	n	0.9915
130	5	PCB-188	NotFnd	*	*	*	n	n	0.9902
131	5	PCB-179	NotFnd	*	*	*	n	n	1.3939
132	5	PCB-184	NotFnd	*	*	*	n	n	1.5298
133	5	PCB-176	NotFnd	*	*	*	n	n	1.3489
134	5	PCB-186	NotFnd	*	*	*	n	n	1.4005
135	5	PCB-178	NotFnd	*	*	*	n	n	1.0123
136	5	PCB-175	NotFnd	*	*	*	n	n	1.0560
137	5	PCB-187	NotFnd	*	*	*	n	n	1.2193
138	5	PCB-182	NotFnd	*	*	*	n	n	0.9083
139	6	PCB-183	NotFnd	*	*	*	n	n	0.7924
140	6	PCB-185	NotFnd	*	*	*	n	n	0.6822
141	6	PCB-174	NotFnd	*	*	*	n	n	0.6856
142	6	PCB-177	NotFnd	*	*	*	n	n	0.6230
143	6	PCB-181	NotFnd	*	*	*	n	n	0.7327
144	6	PCB-171/173	NotFnd	*	*	*	n	n	0.6222
145	6	PCB-172	NotFnd	*	*	*	n	n	0.5915
146	6	PCB-192	NotFnd	*	*	*	n	n	0.8174
147	6	PCB-180/193	NotFnd	*	*	*	n	n	0.7607
148	6	PCB-191	NotFnd	*	*	*	n	n	0.7975
149	6	PCB-170	NotFnd	*	*	*	n	n	0.5679
150	6	PCB-190	NotFnd	*	*	*	n	n	0.7422
151	6	PCB-189	NotFnd	*	*	*	n	n	0.8632
152	6	PCB-202	NotFnd	*	*	*	n	n	0.8634
153	6	PCB-201	NotFnd	*	*	*	n	n	1.2263
154	6	PCB-204	NotFnd	*	*	*	n	n	1.1921
155	6	PCB-197	NotFnd	*	*	*	n	n	1.2471
156	6	PCB-200	NotFnd	*	*	*	n	n	1.2223
157	6	PCB-198/199	NotFnd	*	*	*	n	n	0.8301
158	6	PCB-196	NotFnd	*	*	*	n	n	0.8044
159	6	PCB-203	NotFnd	*	*	*	n	n	0.9397
160	6	PCB-195	NotFnd	*	*	*	n	n	0.7230
161	6	PCB-194	NotFnd	*	*	*	n	n	0.6925
162	6	PCB-205	NotFnd	*	*	*	n	n	0.8885
163	6	PCB-208	NotFnd	*	*	*	n	n	0.8804
164	6	PCB-207	NotFnd	*	*	*	n	n	1.1463

Filename U142056 Acquired: 7-NOV-11 10:45:16

165	7	PCB-206	NotFnd	*	*	*	n	n	0.9310
166	7	PCB-209	NotFnd	*	*	*	n	n	0.8938
167	1	PCB-1L	13:21	1.243e+04	4.143e+03	3.00	y	n	1.2197
168	1	PCB-3L	15:37	1.314e+04	4.297e+03	3.06	y	n	1.1732
169	1	PCB-4L	15:52	7.656e+03	4.876e+03	1.57	y	n	0.8031
170	2	PCB-15L	22:03	8.827e+03	5.565e+03	1.59	y	n	0.9620
171	2	PCB-19L	19:08	5.467e+03	5.547e+03	0.99	y	n	0.6361
172	3	PCB-37L	29:01	7.243e+03	6.584e+03	1.10	y	n	1.1440
173	2	PCB-54L	22:18	4.926e+03	6.151e+03	0.80	y	n	1.1399
174	4	PCB-81L	35:48	5.138e+03	6.435e+03	0.80	y	n	0.9468
175	4	PCB-77L	36:22	6.080e+03	7.621e+03	0.80	y	n	0.9489
176	3	PCB-104L	27:46	8.447e+03	5.420e+03	1.56	y	n	1.3966
177	5	PCB-123L	38:21	6.601e+03	4.356e+03	1.52	y	n	1.0295
178	5	PCB-118L	38:41	6.787e+03	4.228e+03	1.61	y	n	1.0766
179	5	PCB-114L	39:13	7.127e+03	4.405e+03	1.62	y	n	1.0747
180	5	PCB-105L	39:51	6.989e+03	4.255e+03	1.64	y	n	1.0133
181	5	PCB-126L	42:58	6.501e+03	4.116e+03	1.58	y	n	0.8978
182	4	PCB-155L	33:27	8.836e+03	7.271e+03	1.22	y	n	1.6371
183	6	PCB-167L	44:49	4.428e+03	3.547e+03	1.25	y	n	0.8820
184	6	PCB-156/157L	45:59	9.031e+03	7.164e+03	1.26	y	n	0.8178
185	6	PCB-169L	49:14	4.674e+03	3.727e+03	1.25	y	n	0.7164
186	5	PCB-188L	39:11	7.590e+03	7.104e+03	1.07	y	n	2.3576
187	6	PCB-189L	51:44	4.683e+03	4.509e+03	1.04	y	n	1.3072
188	6	PCB-202L	44:35	5.334e+03	5.886e+03	0.91	y	n	1.8043
189	6	PCB-205L	54:18	3.642e+03	4.048e+03	0.90	y	n	1.3631
190	6	PCB-208L	51:15	3.683e+03	4.916e+03	0.75	y	n	1.3370
191	7	PCB-206L	56:02	2.931e+03	3.743e+03	0.78	y	n	0.9978
192	7	PCB-209L	57:37	4.169e+03	3.536e+03	1.18	y	n	1.5625
193	3	PCB-28L	24:58	8.423e+03	7.827e+03	1.08	y	n	1.3869
194	4	PCB-111L	36:24	1.022e+04	6.512e+03	1.57	y	n	1.2384
195	5	PCB-178L	42:15	5.292e+03	4.932e+03	1.07	y	n	0.9527
196	2	PCB-9L	17:57	1.247e+04	8.041e+03	1.55	y	n	-
197	3	PCB-52L	26:49	7.683e+03	9.677e+03	0.79	y	n	-
198	4	PCB-101L	33:41	1.093e+04	6.886e+03	1.59	y	n	-
199	5	PCB-138L	41:48	8.388e+03	6.696e+03	1.25	y	n	-
200	6	PCB-194L	53:50	4.184e+03	4.652e+03	0.90	y	n	-

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
METHOD BLANK

Run #3 Filename U142056#1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 10:45:16
Processed: 11-NOV-11 16:41:00 Sample ID: EQ1100494-01

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:47	8.575e+03	5.505e+03	1.56	yes	1.043	no
2	70L	PCB-70L	31:37	7.406e+03	9.148e+03	0.81	yes	1.530	no
3	15L	PCB-15L	22:03	8.827e+03	5.565e+03	1.59	yes		no
4	81L	PCB-81L	35:48	5.138e+03	6.435e+03	0.80	yes		no

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	1.80e+06	1.46e+03	1.2e+03	1.16e+06	1.22e+03	9.5e+02
2	PCB-70L	1.35e+06	5.46e+03	2.5e+02	1.66e+06	3.20e+03	5.2e+02
3	PCB-15L	2.24e+06	1.46e+03	1.5e+03	1.40e+06	1.22e+03	1.1e+03
4	PCB-81L	9.36e+05	4.22e+03	2.2e+02	1.16e+06	2.25e+03	5.2e+02

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(8.58e+03 + 5.50e+03) \times 10000\ \text{pg} \quad 1}{(8.83e+03 + 5.56e+03) \times \quad \text{L} \quad \times 1.043} = \quad \text{pg/L}$$

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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
METHOD BLANK

Run #10 Filename U142056#1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 10:45:16

Processed: 11-NOV-11 10:38:14 LAB. ID: EQ1100494-01

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	1.64e+03	*	*	1.22e+03	*
2	PCB-2	*	1.64e+03	*	*	1.22e+03	*
3	PCB-3	6.52e+03	1.64e+03	4.0e+00	4.48e+03	1.22e+03	3.7e+00
4	PCB-4	*	7.91e+03	*	*	1.22e+05	*
5	PCB-10	*	7.91e+03	*	*	1.22e+05	*
6	PCB-9	*	7.08e+03	*	*	1.35e+05	*
7	PCB-7	*	7.08e+03	*	*	1.35e+05	*
8	PCB-6	*	7.08e+03	*	*	1.35e+05	*
9	PCB-5	*	7.08e+03	*	*	1.35e+05	*
10	PCB-8	*	7.08e+03	*	*	1.35e+05	*
11	PCB-14	*	7.08e+03	*	*	1.35e+05	*
12	PCB-11	*	7.08e+03	*	*	1.35e+05	*
13	PCB-12/13	*	7.08e+03	*	*	1.35e+05	*
14	PCB-15	*	7.08e+03	*	*	1.35e+05	*
15	PCB-19	*	4.25e+04	*	*	1.06e+03	*
16	PCB-18/30	*	4.25e+04	*	*	1.06e+03	*
17	PCB-17	*	4.25e+04	*	*	1.06e+03	*
18	PCB-27	*	4.25e+04	*	*	1.06e+03	*
19	PCB-24	*	4.25e+04	*	*	1.06e+03	*
20	PCB-16	*	4.25e+04	*	*	1.06e+03	*
21	PCB-32	*	4.25e+04	*	*	1.06e+03	*
22	PCB-34	*	1.12e+04	*	*	7.84e+02	*
23	PCB-23	*	1.12e+04	*	*	7.84e+02	*
24	PCB-26/29	*	1.12e+04	*	*	7.84e+02	*
25	PCB-25	*	1.12e+04	*	*	7.84e+02	*
26	PCB-31	*	1.12e+04	*	*	7.84e+02	*
27	PCB-20/28	*	1.12e+04	*	*	7.84e+02	*
28	PCB-21/33	*	1.12e+04	*	*	7.84e+02	*
29	PCB-22	*	1.12e+04	*	*	7.84e+02	*
30	PCB-36	*	1.12e+04	*	*	7.84e+02	*
31	PCB-39	*	1.12e+04	*	*	7.84e+02	*
32	PCB-38	*	1.12e+04	*	*	7.84e+02	*
33	PCB-35	*	1.12e+04	*	*	7.84e+02	*
34	PCB-37	*	1.12e+04	*	*	7.84e+02	*
35	PCB-54	*	9.24e+02	*	*	7.08e+02	*
36	PCB-50/53	*	1.32e+03	*	*	1.27e+03	*
37	PCB-45/51	*	1.32e+03	*	*	1.27e+03	*
38	PCB-46	*	1.32e+03	*	*	1.27e+03	*
39	PCB-52	5.77e+03	1.32e+03	4.4e+00	7.56e+03	1.27e+03	5.9e+00
40	PCB-43/73	*	1.32e+03	*	*	1.27e+03	*
41	PCB-49/69	*	1.32e+03	*	*	1.27e+03	*
42	PCB-48	*	1.32e+03	*	*	1.27e+03	*
43	PCB-44/47/65	8.21e+03	1.32e+03	6.2e+00	1.06e+04	1.27e+03	8.4e+00
44	PCB-59/62/75	*	1.32e+03	*	*	1.27e+03	*
45	PCB-42	*	1.32e+03	*	*	1.27e+03	*
46	PCB-40/41/71	*	1.32e+03	*	*	1.27e+03	*
47	PCB-64	*	1.32e+03	*	*	1.27e+03	*

48	PCB-72	*	1.32e+03	*	*	1.27e+03	*
49	PCB-68	*	1.32e+03	*	*	1.27e+03	*
50	PCB-57	*	1.32e+03	*	*	1.27e+03	*
51	PCB-58	*	1.32e+03	*	*	1.27e+03	*
52	PCB-67	*	1.32e+03	*	*	1.27e+03	*
53	PCB-63	*	1.32e+03	*	*	1.27e+03	*
54	PCB-61/70/74/76	4.52e+03	1.32e+03	3.4e+00	5.34e+03	1.27e+03	4.2e+00
55	PCB-66	*	1.32e+03	*	*	1.27e+03	*
56	PCB-55	*	1.32e+03	*	*	1.27e+03	*
57	PCB-56	*	6.44e+02	*	*	8.08e+02	*
58	PCB-60	*	6.44e+02	*	*	8.08e+02	*
59	PCB-80	*	6.44e+02	*	*	8.08e+02	*
60	PCB-79	*	6.44e+02	*	*	8.08e+02	*
61	PCB-78	*	6.44e+02	*	*	8.08e+02	*
62	PCB-81	*	6.44e+02	*	*	8.08e+02	*
63	PCB-77	*	6.44e+02	*	*	8.08e+02	*
64	PCB-104	*	8.40e+02	*	*	9.68e+02	*
65	PCB-96	*	8.40e+02	*	*	9.68e+02	*
66	PCB-103	*	8.40e+02	*	*	9.68e+02	*
67	PCB-94	*	8.40e+02	*	*	9.68e+02	*
68	PCB-95	6.36e+03	8.40e+02	7.6e+00	4.81e+03	9.68e+02	5.0e+00
69	PCB-93/100	*	8.40e+02	*	*	9.68e+02	*
70	PCB-98/102	*	8.40e+02	*	*	9.68e+02	*
71	PCB-88/91	*	8.40e+02	*	*	9.68e+02	*
72	PCB-84	*	8.40e+02	*	*	9.68e+02	*
73	PCB-89	*	8.40e+02	*	*	9.68e+02	*
74	PCB-121	*	7.24e+02	*	*	7.56e+02	*
75	PCB-92	*	7.24e+02	*	*	7.56e+02	*
76	PCB-90/101/113	5.88e+03	7.24e+02	8.1e+00	4.56e+03	7.56e+02	6.0e+00
77	PCB-83/99	*	7.24e+02	*	*	7.56e+02	*
78	PCB-112	*	7.24e+02	*	*	7.56e+02	*
79	CB-86/87/97/109/119/125	*	7.24e+02	*	*	7.56e+02	*
80	PCB-117	*	7.24e+02	*	*	7.56e+02	*
81	PCB-85/116	*	7.24e+02	*	*	7.56e+02	*
82	PCB-110/115	*	7.24e+02	*	*	7.56e+02	*
83	PCB-82	*	7.24e+02	*	*	7.56e+02	*
84	PCB-111	*	7.24e+02	*	*	7.56e+02	*
85	PCB-120	*	7.24e+02	*	*	7.56e+02	*
86	PCB-108/124	*	9.40e+02	*	*	7.52e+02	*
87	PCB-107	*	9.40e+02	*	*	7.52e+02	*
88	PCB-123	*	9.40e+02	*	*	7.52e+02	*
89	PCB-106	*	9.40e+02	*	*	7.52e+02	*
90	PCB-118	*	9.40e+02	*	*	7.52e+02	*
91	PCB-122	*	9.40e+02	*	*	7.52e+02	*
92	PCB-114	*	9.40e+02	*	*	7.52e+02	*
93	PCB-105	*	9.40e+02	*	*	7.52e+02	*
94	PCB-127	*	9.40e+02	*	*	7.52e+02	*
95	PCB-126	*	9.40e+02	*	*	7.52e+02	*
96	PCB-155	*	1.09e+03	*	*	8.60e+02	*
97	PCB-152	*	1.09e+03	*	*	8.60e+02	*
98	PCB-150	*	1.09e+03	*	*	8.60e+02	*
99	PCB-136	*	1.09e+03	*	*	8.60e+02	*
100	PCB-145	*	1.09e+03	*	*	8.60e+02	*
101	PCB-148	*	1.09e+03	*	*	8.60e+02	*
102	PCB-135/151	*	1.09e+03	*	*	8.60e+02	*
103	PCB-154	*	1.09e+03	*	*	8.60e+02	*
104	PCB-144	*	1.09e+03	*	*	8.60e+02	*

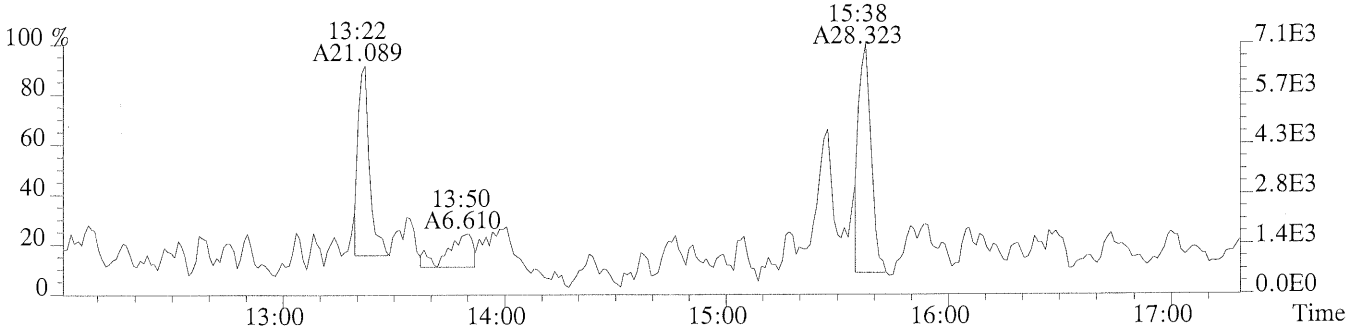
Run #10 Filename U142056#1 Samp: 1 Acquired: 7-NOV-11 10:45:16

105	PCB-147/149	*	8.88e+02	*	*	1.15e+03	*
106	PCB-134	*	8.88e+02	*	*	1.15e+03	*
107	PCB-143	*	8.88e+02	*	*	1.15e+03	*
108	PCB-139/140	*	8.88e+02	*	*	1.15e+03	*
109	PCB-131	*	8.88e+02	*	*	1.15e+03	*
110	PCB-142	*	8.88e+02	*	*	1.15e+03	*
111	PCB-132	*	8.88e+02	*	*	1.15e+03	*
112	PCB-133	*	8.88e+02	*	*	1.15e+03	*
113	PCB-165	*	8.88e+02	*	*	1.15e+03	*
114	PCB-146	*	8.88e+02	*	*	1.15e+03	*
115	PCB-161	*	8.88e+02	*	*	1.15e+03	*
116	PCB-153/168	*	8.88e+02	*	*	1.15e+03	*
117	PCB-141	*	8.88e+02	*	*	1.15e+03	*
118	PCB-130	*	8.88e+02	*	*	1.15e+03	*
119	PCB-137	*	8.88e+02	*	*	1.15e+03	*
120	PCB-164	*	8.88e+02	*	*	1.15e+03	*
121	PCB-129/138/163	*	8.88e+02	*	*	1.15e+03	*
122	PCB-160	*	8.88e+02	*	*	1.15e+03	*
123	PCB-158	*	8.88e+02	*	*	1.15e+03	*
124	PCB-128/166	*	8.88e+02	*	*	1.15e+03	*
125	PCB-159	*	1.16e+03	*	*	1.36e+03	*
126	PCB-162	*	1.16e+03	*	*	1.36e+03	*
127	PCB-167	*	1.16e+03	*	*	1.36e+03	*
128	PCB-156/157	*	1.16e+03	*	*	1.36e+03	*
129	PCB-169	*	1.16e+03	*	*	1.36e+03	*
130	PCB-188	*	1.22e+03	*	*	7.48e+02	*
131	PCB-179	*	1.22e+03	*	*	7.48e+02	*
132	PCB-184	*	1.22e+03	*	*	7.48e+02	*
133	PCB-176	*	1.22e+03	*	*	7.48e+02	*
134	PCB-186	*	1.22e+03	*	*	7.48e+02	*
135	PCB-178	*	1.22e+03	*	*	7.48e+02	*
136	PCB-175	*	1.22e+03	*	*	7.48e+02	*
137	PCB-187	*	1.22e+03	*	*	7.48e+02	*
138	PCB-182	*	1.22e+03	*	*	7.48e+02	*
139	PCB-183	*	1.00e+03	*	*	1.29e+03	*
140	PCB-185	*	1.00e+03	*	*	1.29e+03	*
141	PCB-174	*	1.00e+03	*	*	1.29e+03	*
142	PCB-177	*	1.00e+03	*	*	1.29e+03	*
143	PCB-181	*	1.00e+03	*	*	1.29e+03	*
144	PCB-171/173	*	1.00e+03	*	*	1.29e+03	*
145	PCB-172	*	1.00e+03	*	*	1.29e+03	*
146	PCB-192	*	1.00e+03	*	*	1.29e+03	*
147	PCB-180/193	*	1.00e+03	*	*	1.29e+03	*
148	PCB-191	*	1.00e+03	*	*	1.29e+03	*
149	PCB-170	*	1.00e+03	*	*	1.29e+03	*
150	PCB-190	*	1.00e+03	*	*	1.29e+03	*
151	PCB-189	*	1.00e+03	*	*	1.29e+03	*
152	PCB-202	*	9.16e+02	*	*	1.00e+03	*
153	PCB-201	*	9.16e+02	*	*	1.00e+03	*
154	PCB-204	*	9.16e+02	*	*	1.00e+03	*
155	PCB-197	*	9.16e+02	*	*	1.00e+03	*
156	PCB-200	*	9.16e+02	*	*	1.00e+03	*
157	PCB-198/199	*	9.16e+02	*	*	1.00e+03	*
158	PCB-196	*	9.16e+02	*	*	1.00e+03	*
159	PCB-203	*	9.16e+02	*	*	1.00e+03	*
160	PCB-195	*	9.16e+02	*	*	1.00e+03	*
161	PCB-194	*	9.16e+02	*	*	1.00e+03	*
162	PCB-205	*	9.16e+02	*	*	1.00e+03	*

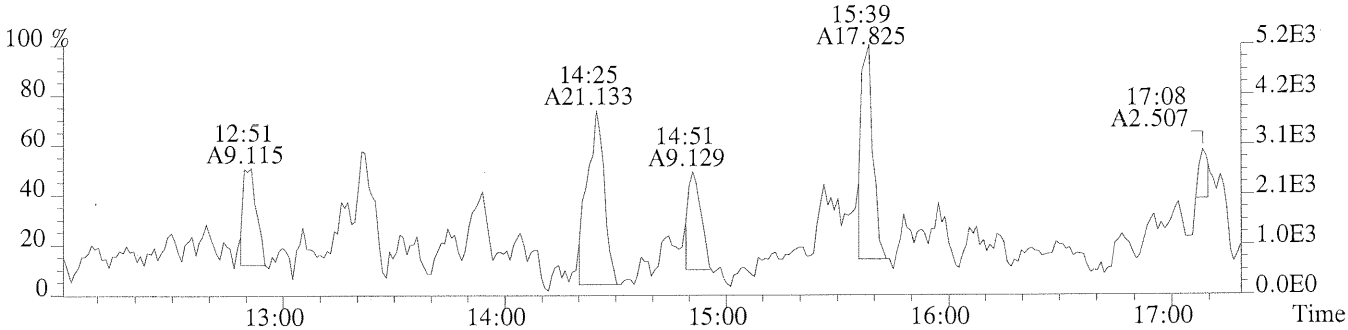
163	PCB-208	*	9.76e+02	*	*	1.25e+03	*
164	PCB-207	*	9.76e+02	*	*	1.25e+03	*
165	PCB-206	*	7.48e+02	*	*	1.01e+03	*
166	PCB-209	*	9.36e+02	*	*	8.20e+02	*
167	PCB-1L	3.36e+06	1.46e+03	2.3e+03	1.13e+06	8.48e+03	1.3e+02
168	PCB-3L	3.09e+06	1.46e+03	2.1e+03	1.01e+06	8.48e+03	1.2e+02
169	PCB-4L	1.76e+06	1.60e+03	1.1e+03	1.13e+06	1.29e+03	8.7e+02
170	PCB-15L	2.24e+06	1.46e+03	1.5e+03	1.40e+06	1.22e+03	1.1e+03
171	PCB-19L	1.17e+06	7.92e+04	1.5e+01	1.10e+06	9.50e+04	1.2e+01
172	PCB-37L	1.28e+06	2.67e+04	4.8e+01	1.21e+06	4.30e+04	2.8e+01
173	PCB-54L	1.17e+06	6.00e+03	1.9e+02	1.46e+06	5.46e+03	2.7e+02
174	PCB-81L	9.36e+05	4.22e+03	2.2e+02	1.16e+06	2.25e+03	5.2e+02
175	PCB-77L	1.06e+06	4.22e+03	2.5e+02	1.32e+06	2.25e+03	5.9e+02
176	PCB-104L	1.64e+06	1.02e+03	1.6e+03	1.05e+06	9.76e+02	1.1e+03
177	PCB-123L	1.21e+06	2.09e+03	5.8e+02	8.02e+05	9.92e+02	8.1e+02
178	PCB-118L	1.20e+06	2.09e+03	5.8e+02	7.59e+05	9.92e+02	7.7e+02
179	PCB-114L	1.28e+06	2.09e+03	6.1e+02	7.75e+05	9.92e+02	7.8e+02
180	PCB-105L	1.24e+06	2.09e+03	5.9e+02	7.40e+05	9.92e+02	7.5e+02
181	PCB-126L	1.07e+06	2.09e+03	5.1e+02	6.82e+05	9.92e+02	6.9e+02
182	PCB-155L	1.63e+06	6.72e+02	2.4e+03	1.33e+06	8.44e+02	1.6e+03
183	PCB-167L	9.50e+05	9.24e+02	1.0e+03	7.72e+05	1.92e+03	4.0e+02
184	PCB-156/157L	1.47e+06	9.24e+02	1.6e+03	1.15e+06	1.92e+03	6.0e+02
185	PCB-169L	9.74e+05	9.24e+02	1.1e+03	7.68e+05	1.92e+03	4.0e+02
186	PCB-188L	1.33e+06	1.21e+03	1.1e+03	1.27e+06	8.84e+02	1.4e+03
187	PCB-189L	1.01e+06	1.33e+03	7.6e+02	9.76e+05	1.06e+03	9.2e+02
188	PCB-202L	1.15e+06	1.62e+03	7.1e+02	1.27e+06	1.08e+03	1.2e+03
189	PCB-205L	7.58e+05	1.62e+03	4.7e+02	8.26e+05	1.08e+03	7.6e+02
190	PCB-208L	7.73e+05	1.03e+03	7.5e+02	1.03e+06	1.04e+03	9.9e+02
191	PCB-206L	5.33e+05	7.84e+02	6.8e+02	6.70e+05	1.04e+03	6.4e+02
192	PCB-209L	7.53e+05	7.24e+02	1.0e+03	6.54e+05	5.92e+02	1.1e+03
193	PCB-28L	1.63e+06	2.67e+04	6.1e+01	1.51e+06	4.30e+04	3.5e+01
194	PCB-111L	1.86e+06	1.03e+03	1.8e+03	1.17e+06	1.11e+03	1.0e+03
195	PCB-178L	9.27e+05	1.21e+03	7.7e+02	8.86e+05	8.84e+02	1.0e+03
196	PCB-9L	3.30e+06	1.46e+03	2.3e+03	2.13e+06	1.22e+03	1.7e+03
197	PCB-52L	1.48e+06	5.46e+03	2.7e+02	1.87e+06	3.20e+03	5.9e+02
198	PCB-101L	1.99e+06	1.03e+03	1.9e+03	1.25e+06	1.11e+03	1.1e+03
199	PCB-138L	1.45e+06	8.08e+02	1.8e+03	1.16e+06	6.44e+02	1.8e+03
200	PCB-194L	8.75e+05	1.62e+03	5.4e+02	9.48e+05	1.08e+03	8.7e+02

File:U142056 #1-341 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

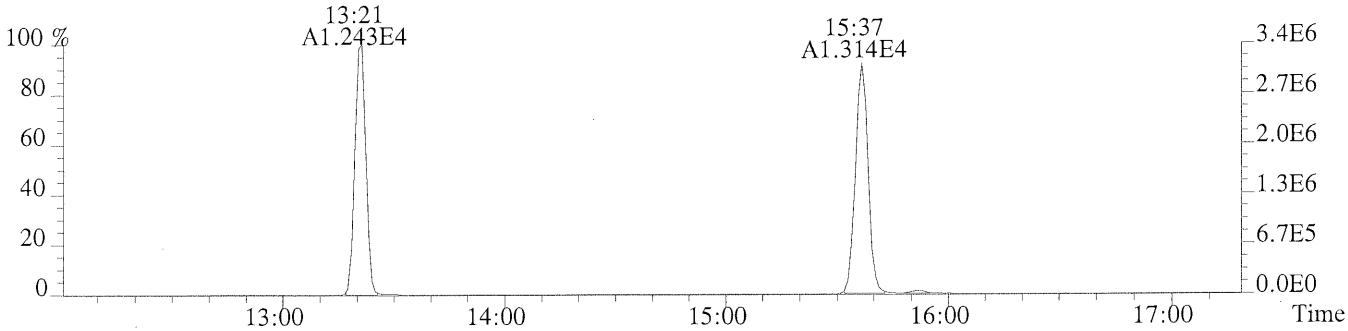
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1636.0,1.00%,F,T)



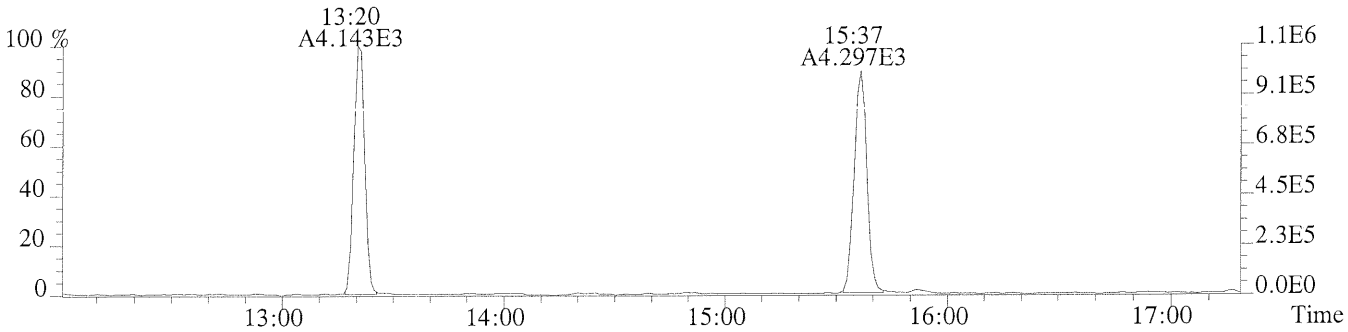
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



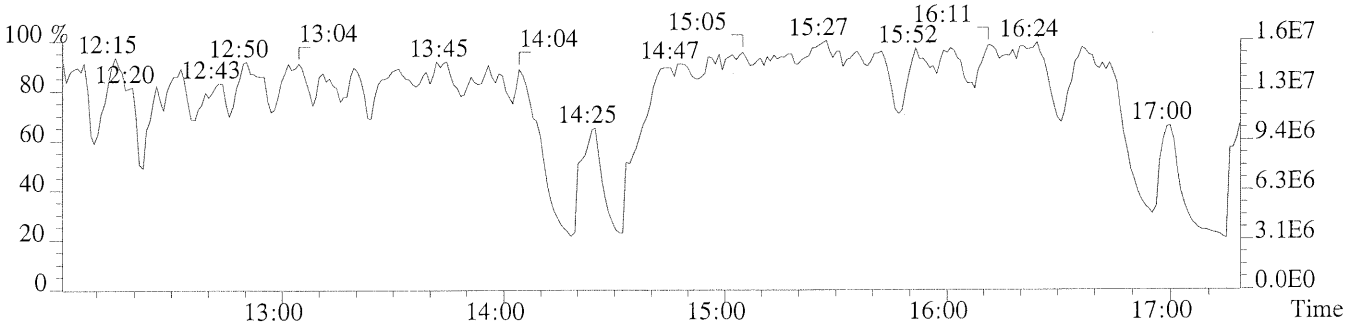
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1460.0,1.00%,F,T)



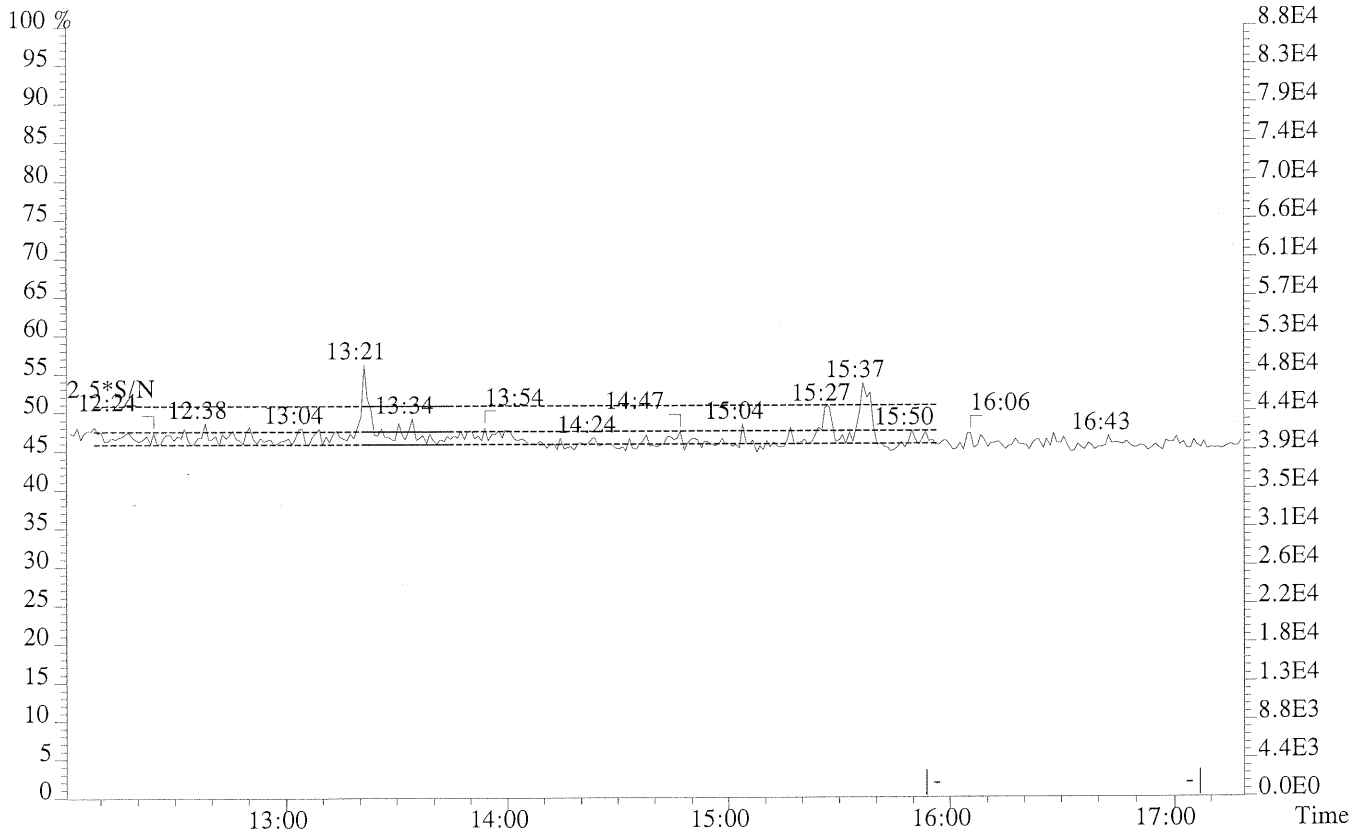
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8484.0,1.00%,F,T)



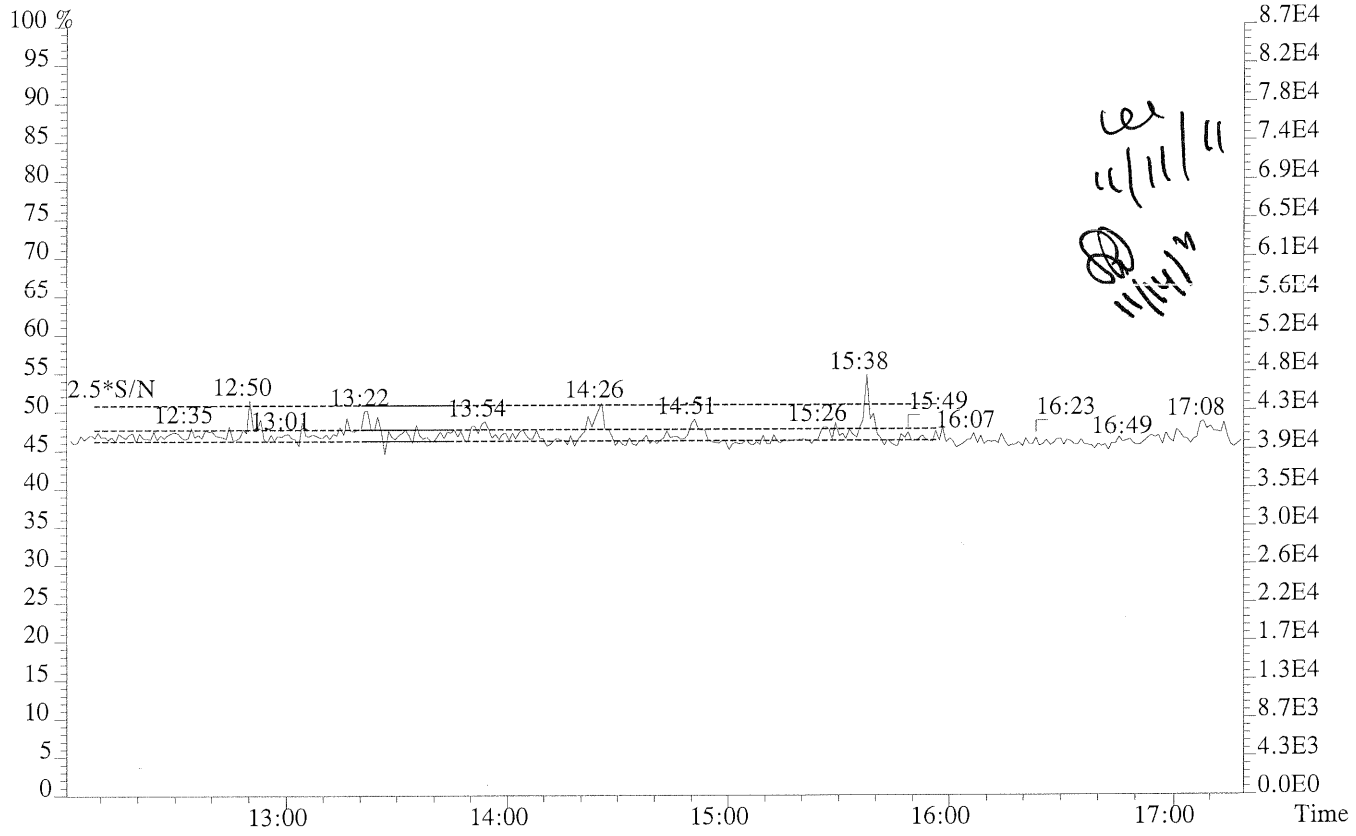
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142056 #1-341 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
188.0393



190.0363



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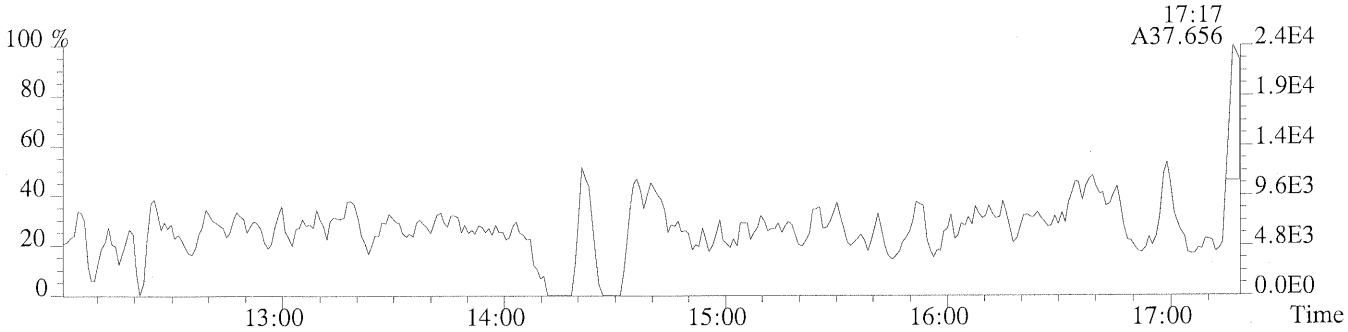
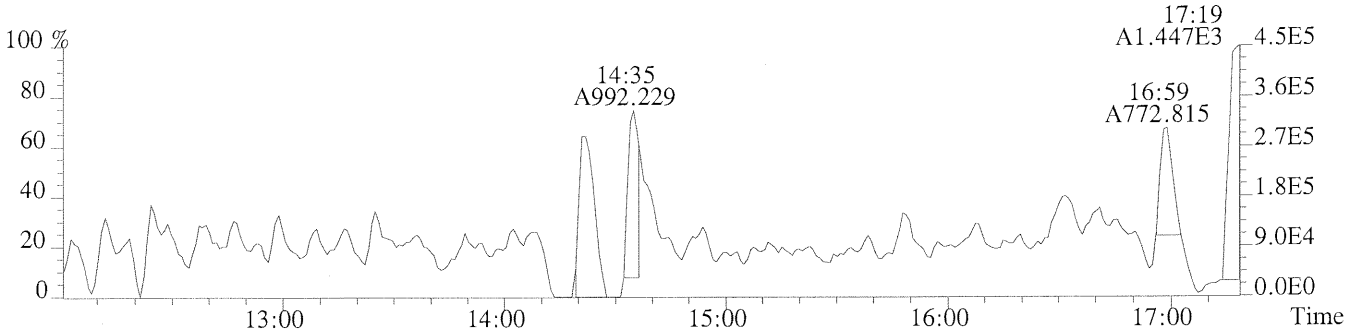
11/11/11

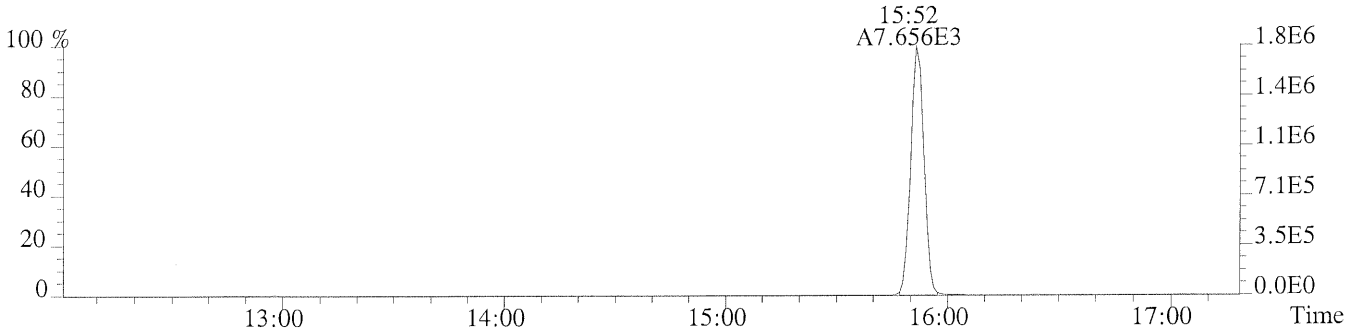
File:U142056 #1-341 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7912.0,1.00%,F,T)



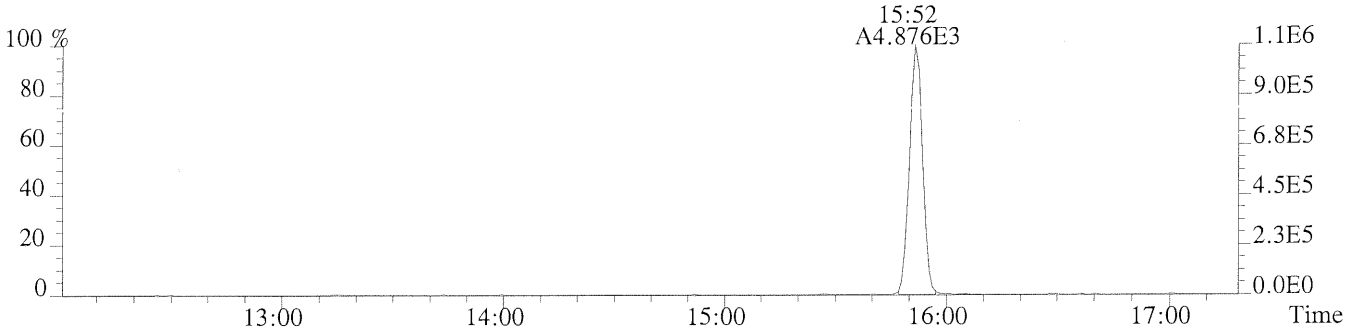
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,121956.0,1.00%,F,T)



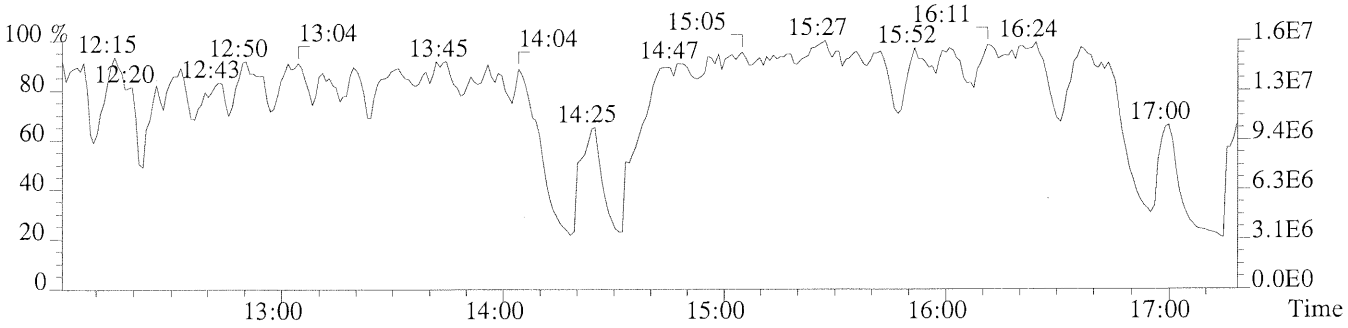
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1604.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1292.0,1.00%,F,T)

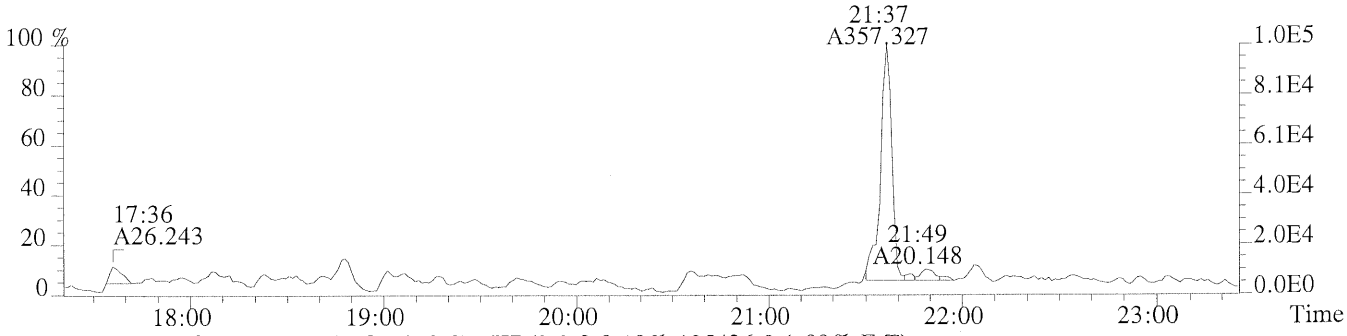


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

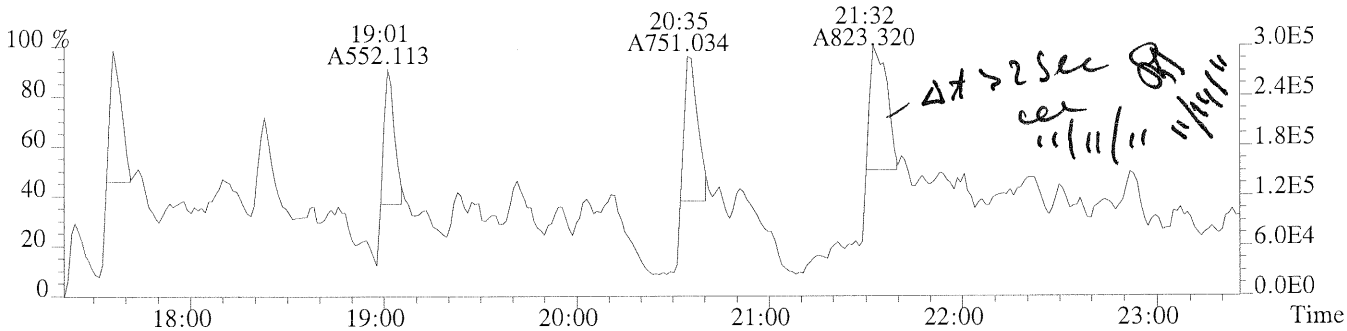


File:U142056 #1-336 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

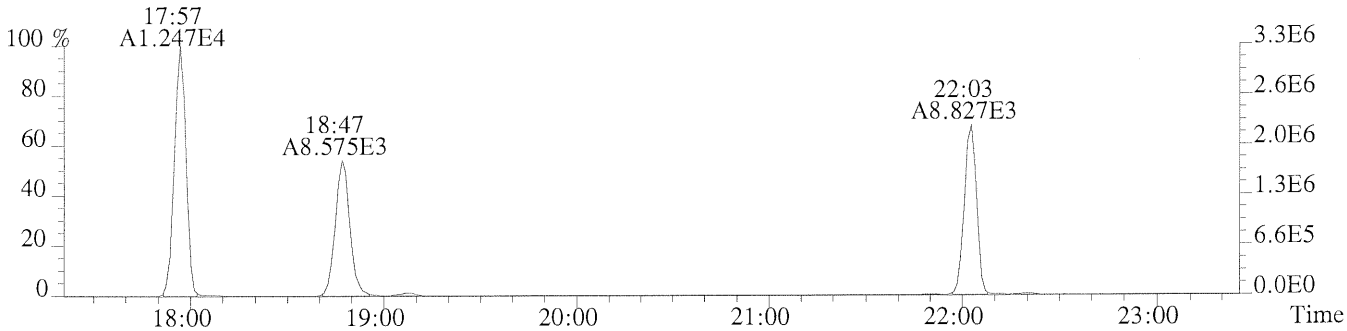
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7076.0,1.00%,F,T)



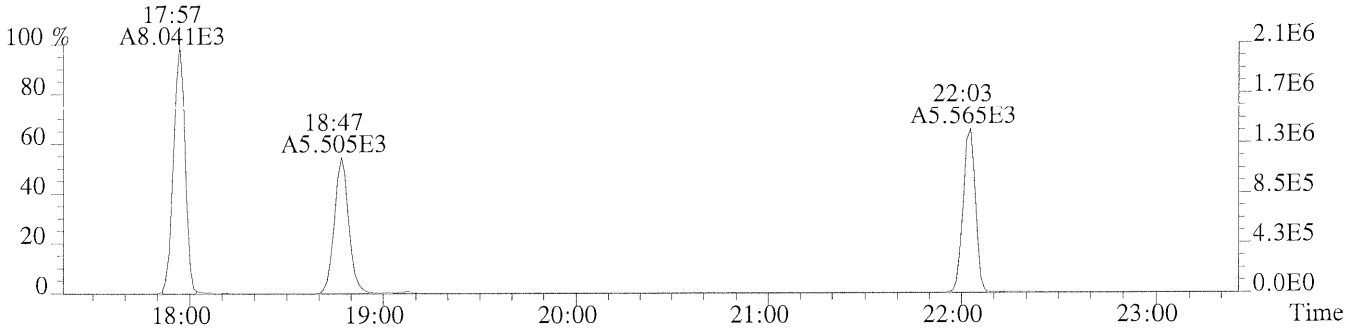
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,135436.0,1.00%,F,T)



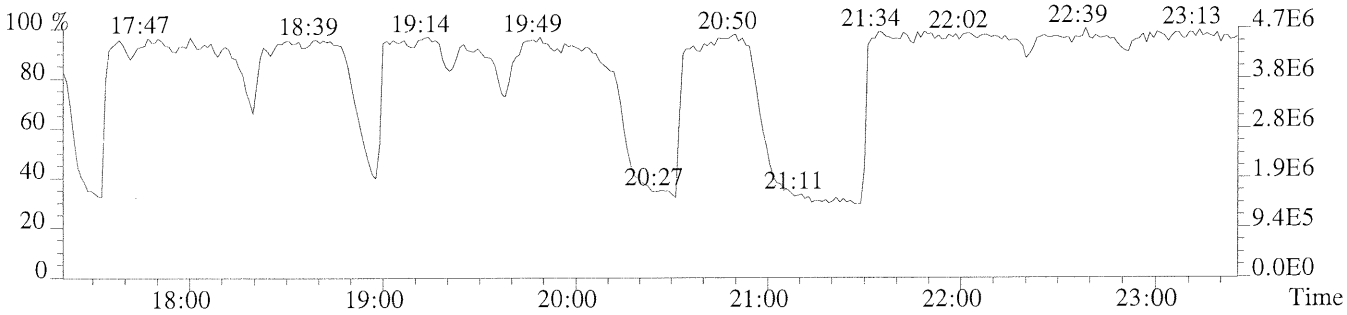
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1456.0,1.00%,F,T)



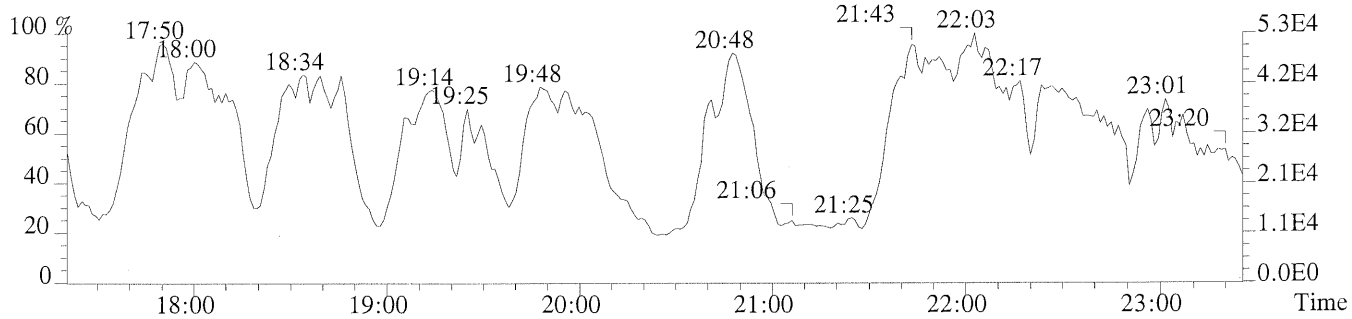
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)



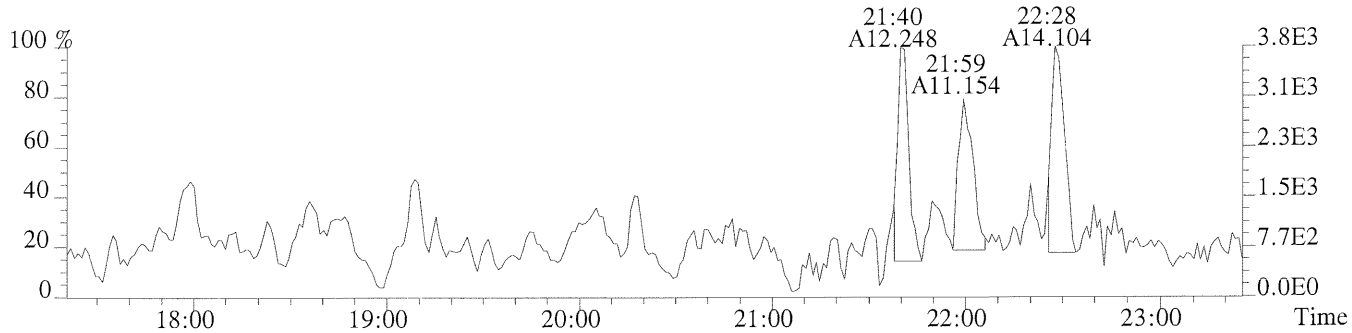
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



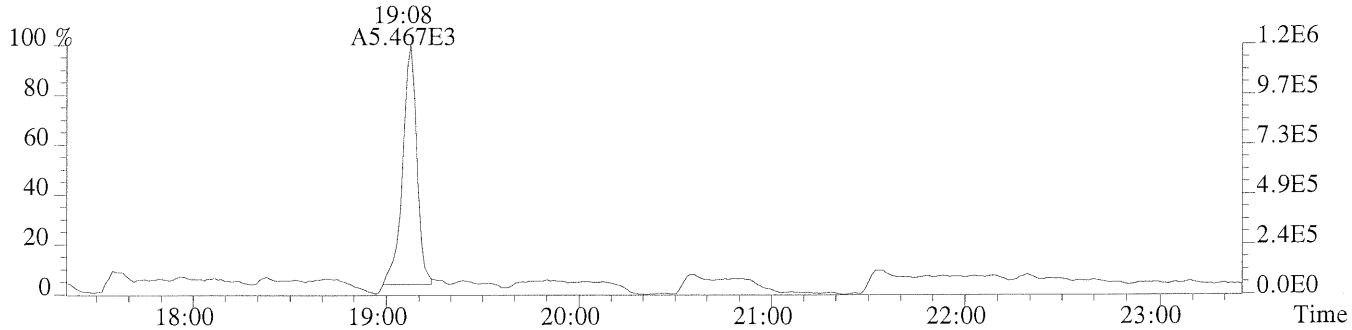
File:U142056 #1-336 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,42484.0,1.00%,F,T)



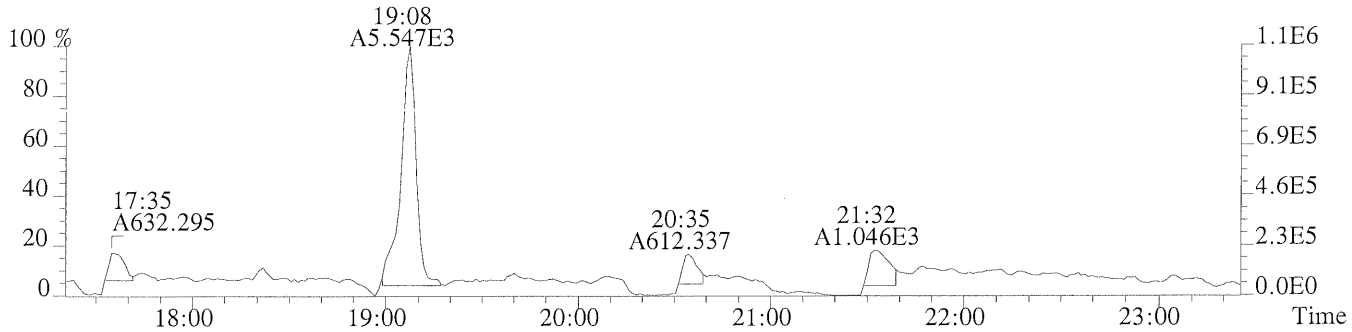
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1056.0,1.00%,F,T)



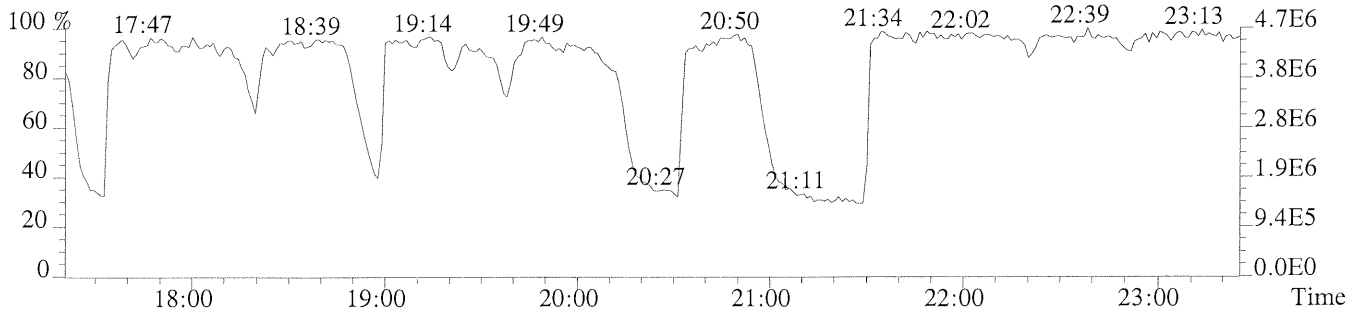
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,79248.0,1.00%,F,T)



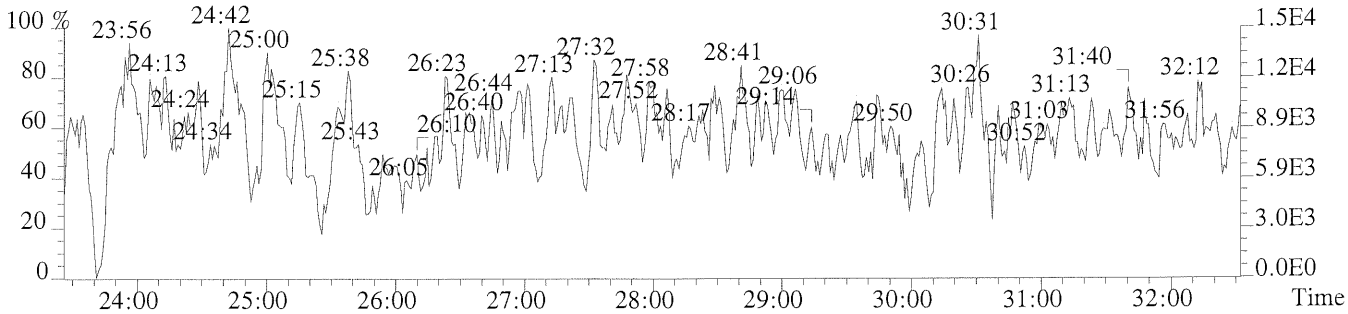
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,95016.0,1.00%,F,T)



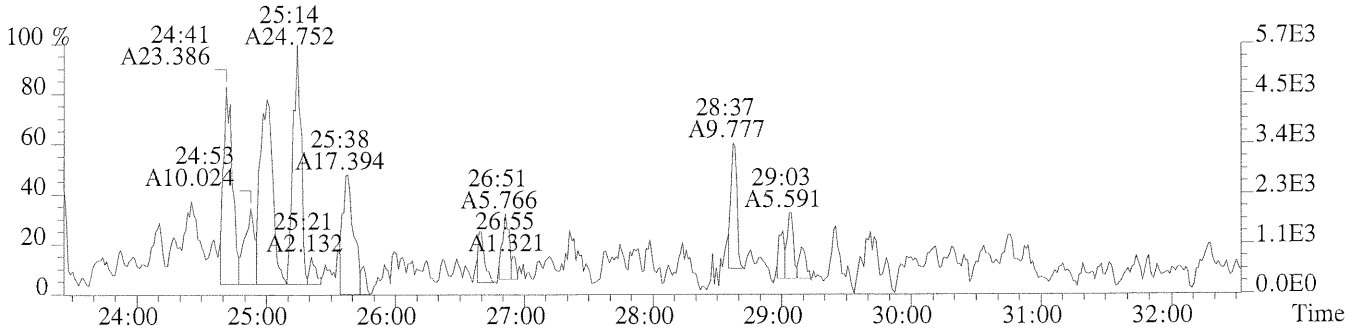
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



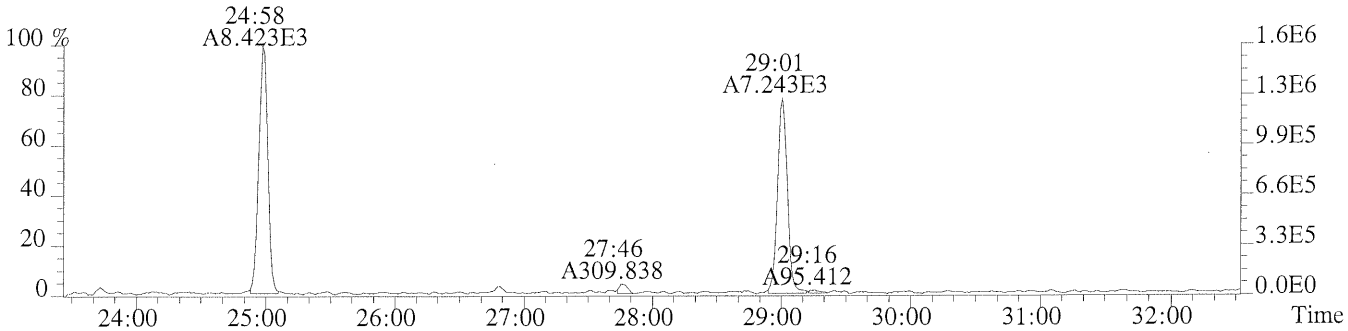
File:U142056 #1-582 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11248.0,1.00%,F,T)



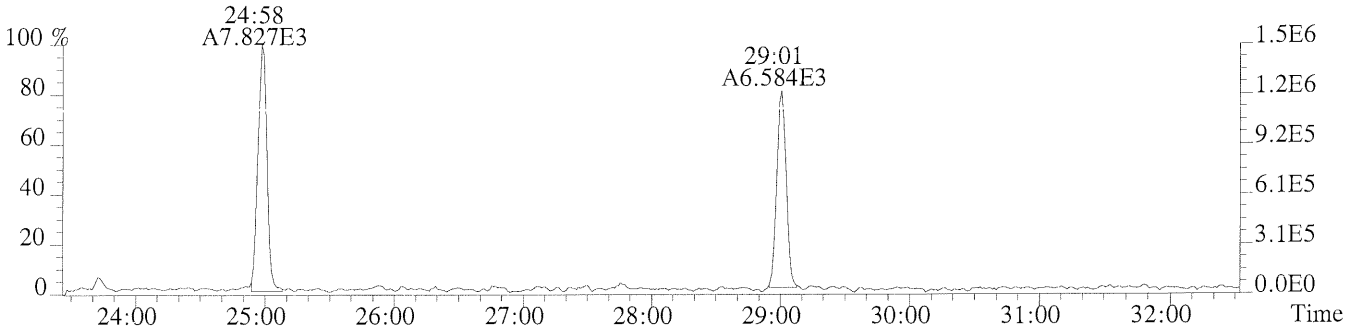
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)



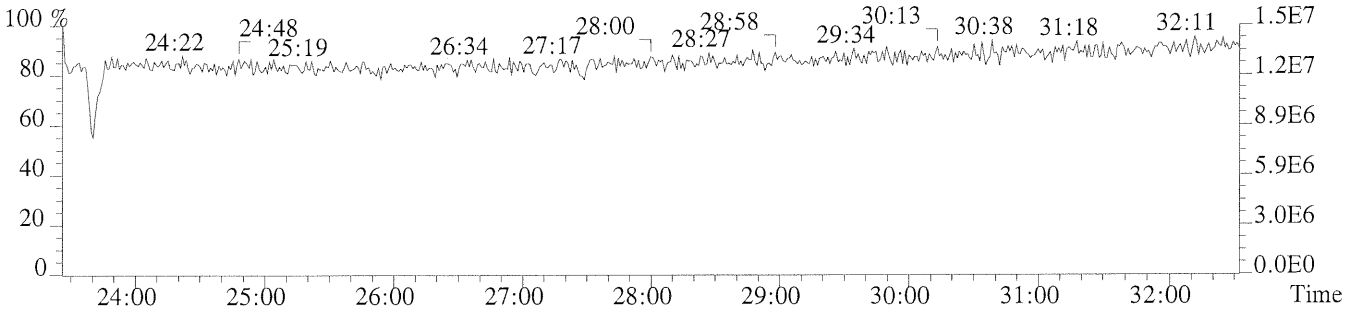
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,26728.0,1.00%,F,T)



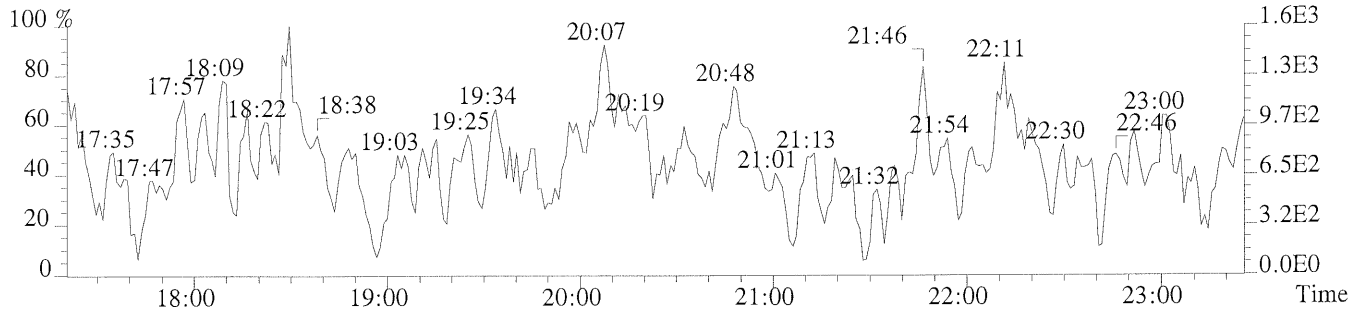
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,42952.0,1.00%,F,T)



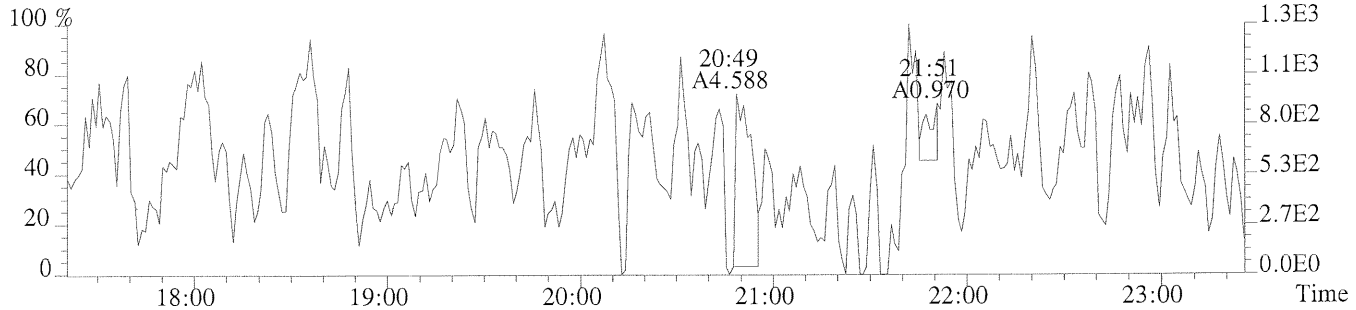
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



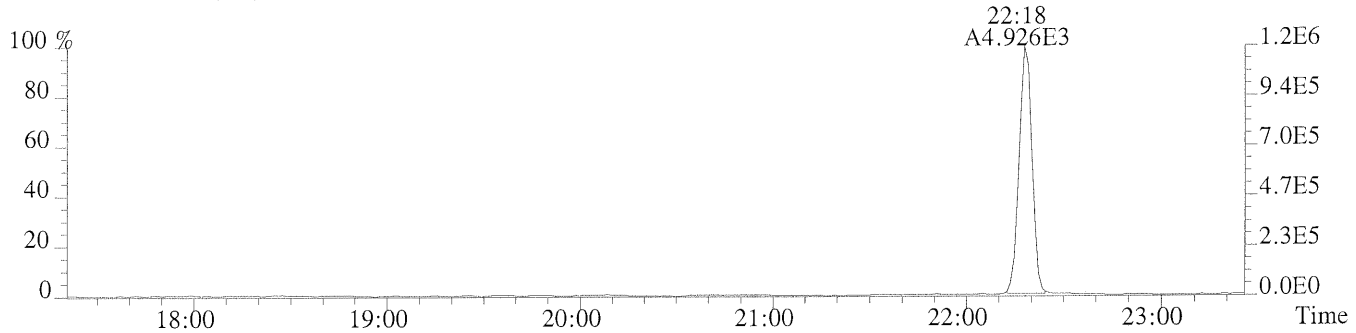
File:U142056 #1-336 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



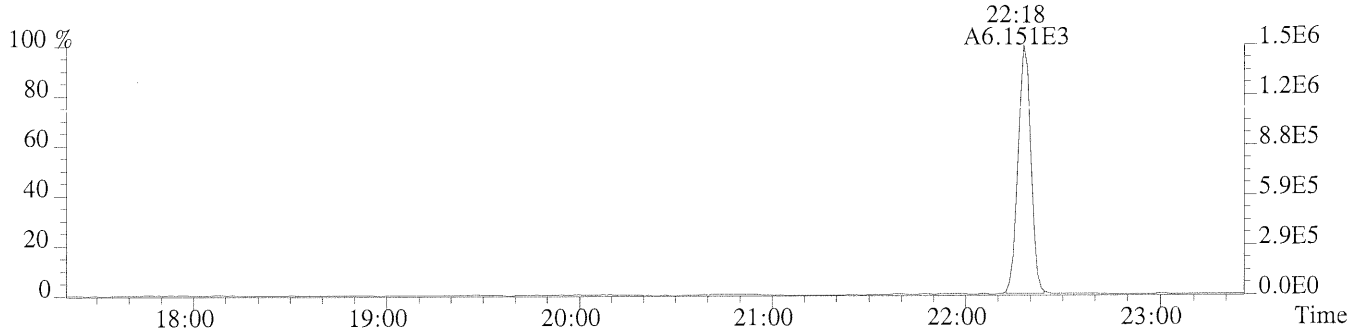
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,708.0,1.00%,F,T)



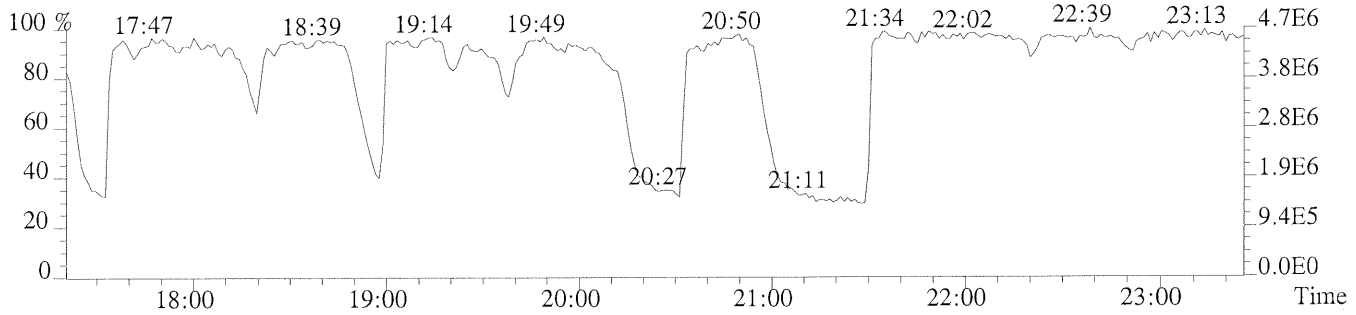
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5996.0,1.00%,F,T)



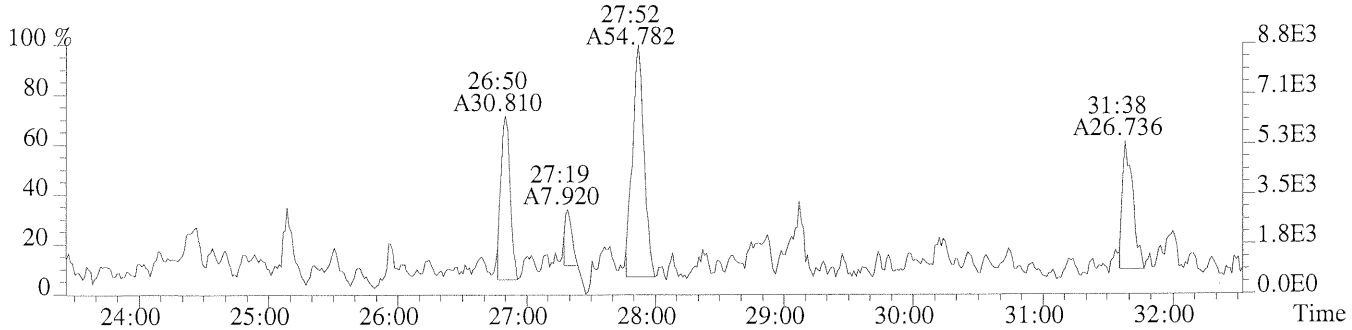
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5456.0,1.00%,F,T)



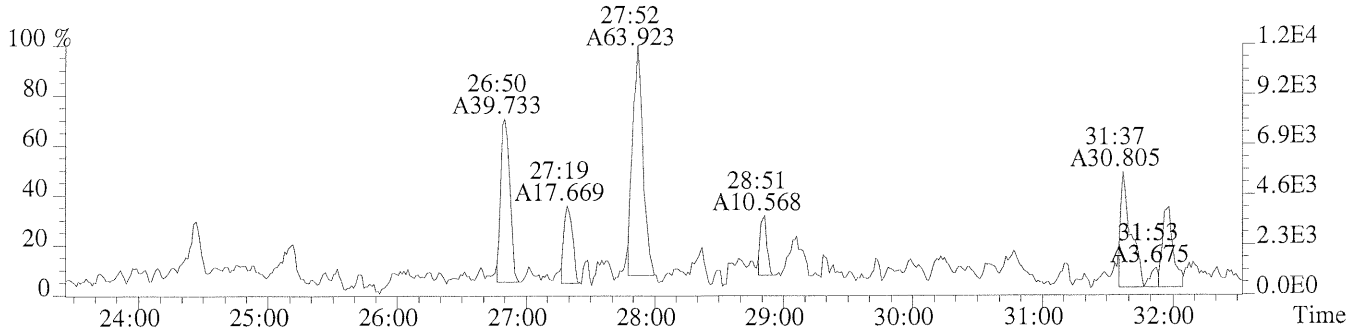
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



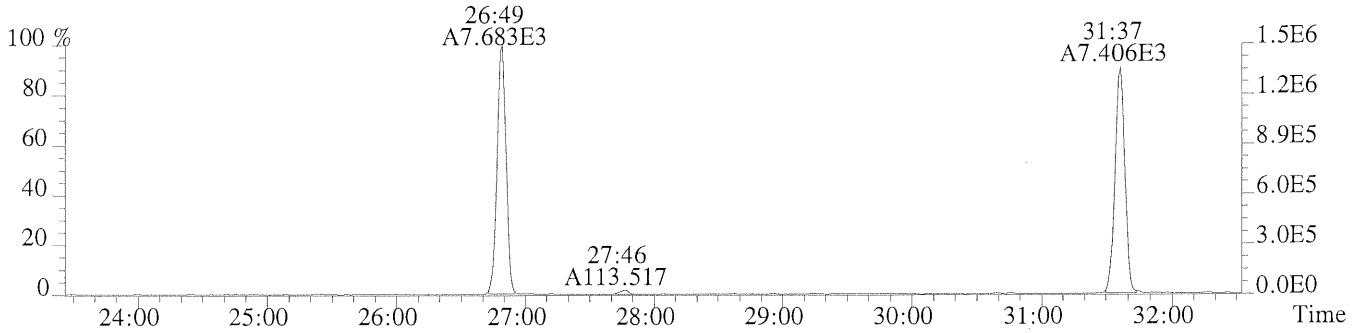
File:U142056 #1-582 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1324.0,1.00%,F,T)



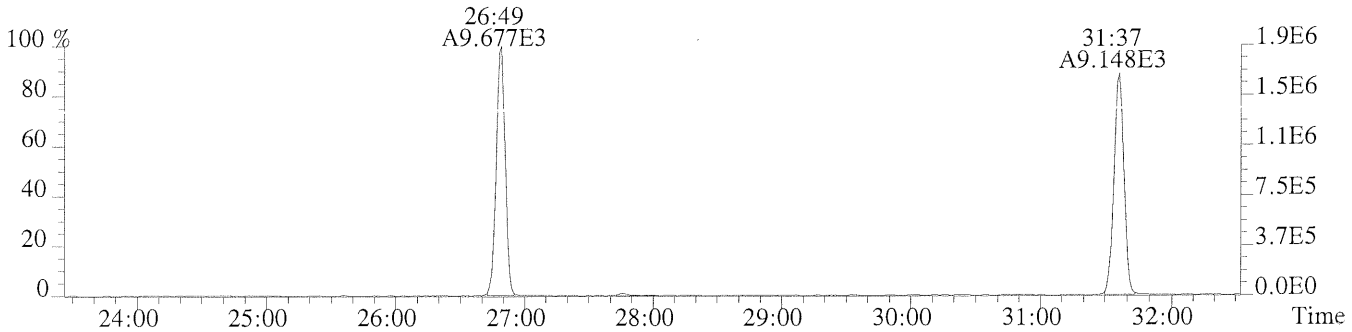
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1272.0,1.00%,F,T)



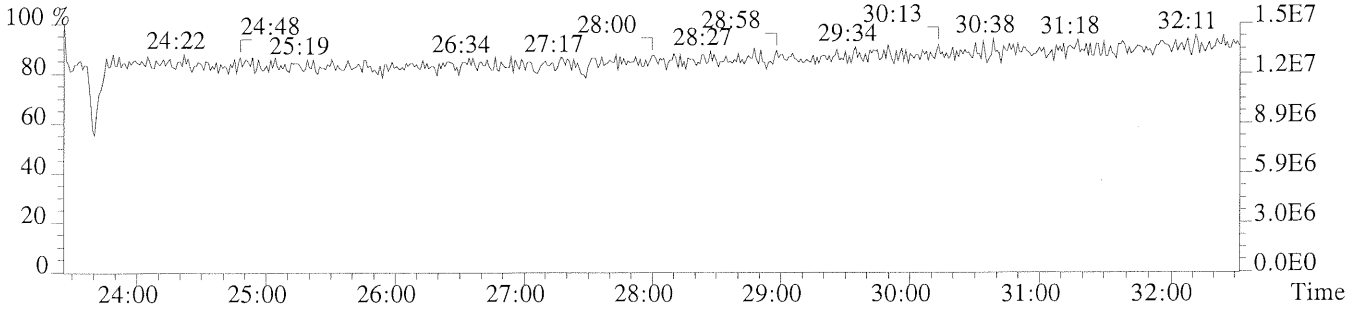
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5456.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3196.0,1.00%,F,T)

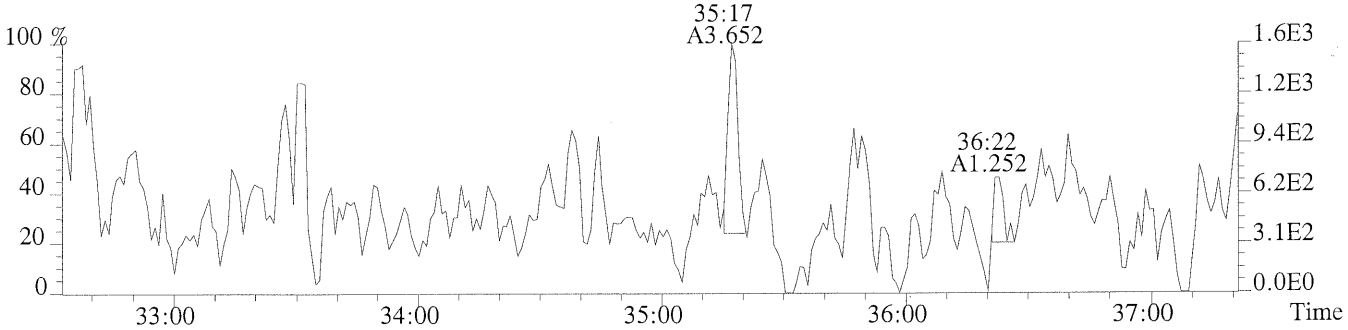


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

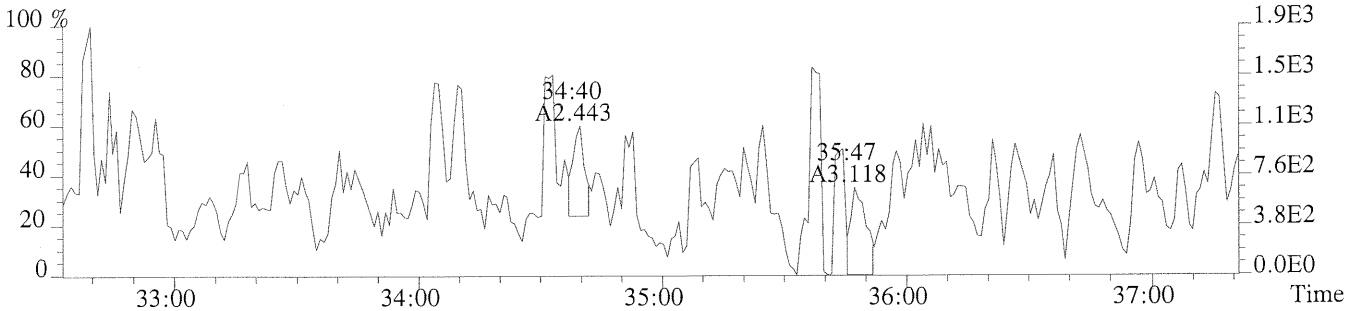


File:U142056 #1-308 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

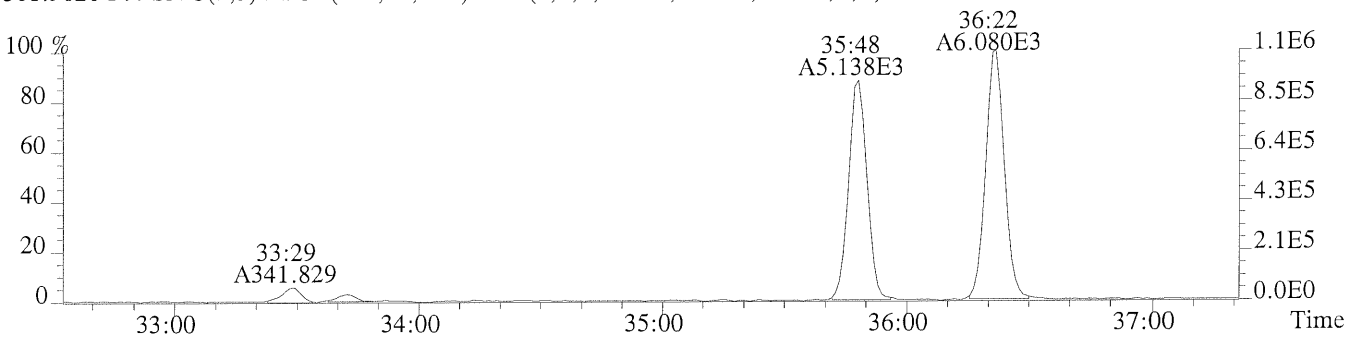
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,644.0,1.00%,F,T)



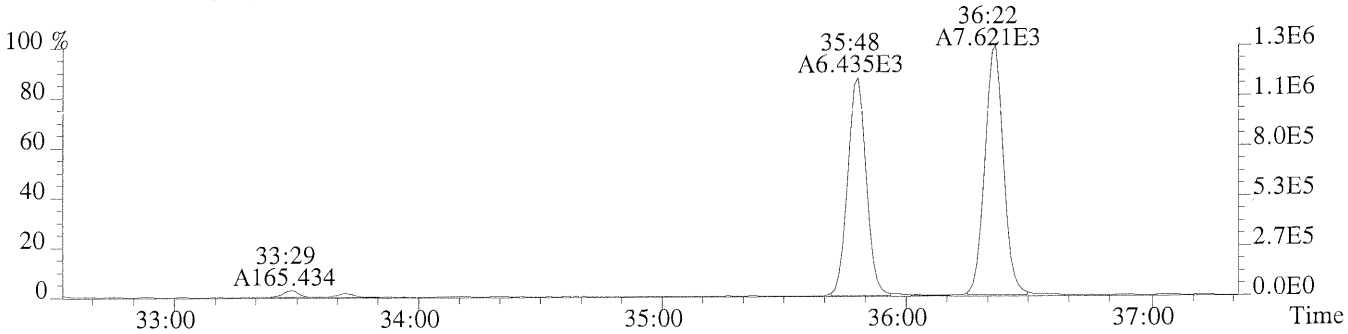
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,808.0,1.00%,F,T)



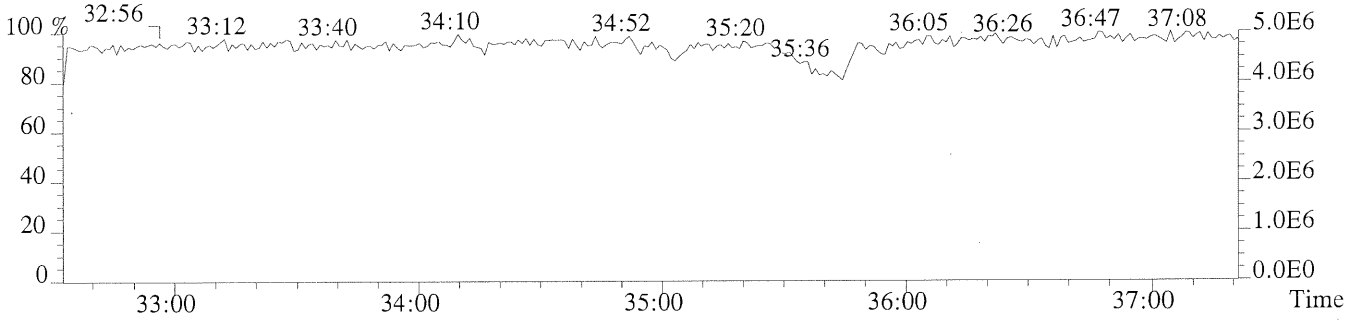
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4224.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2252.0,1.00%,F,T)

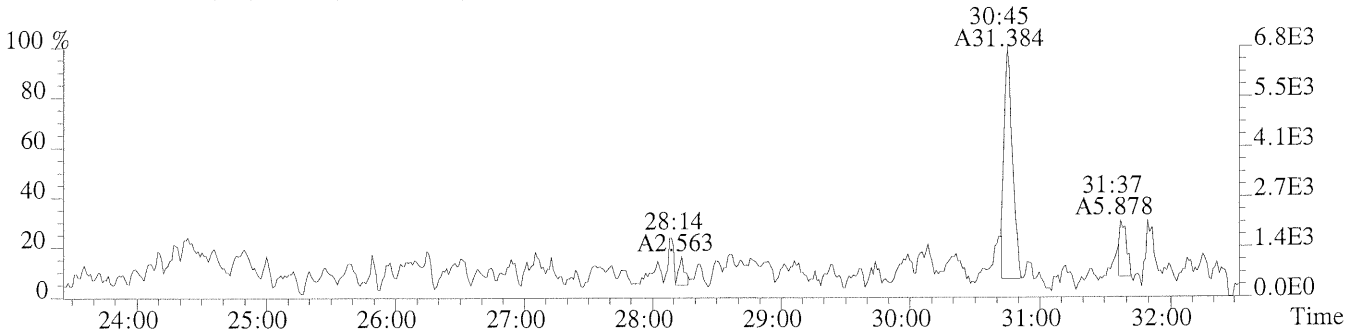


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

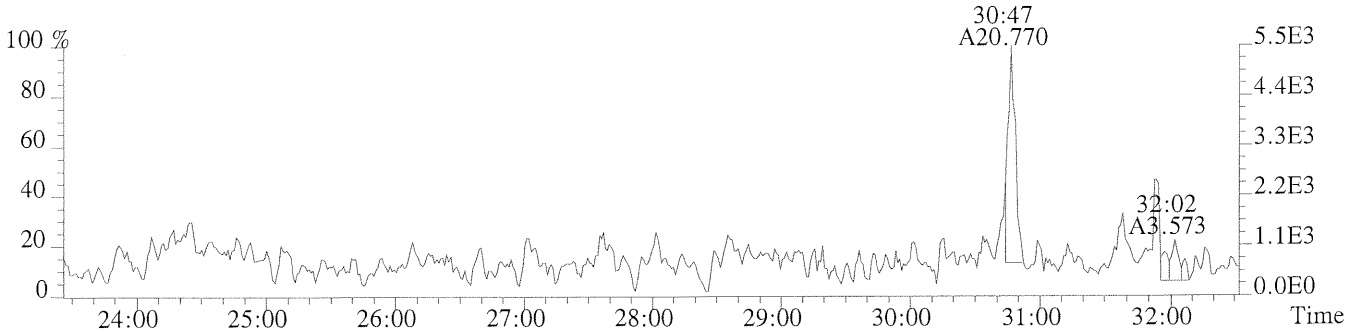


File:U142056 #1-582 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

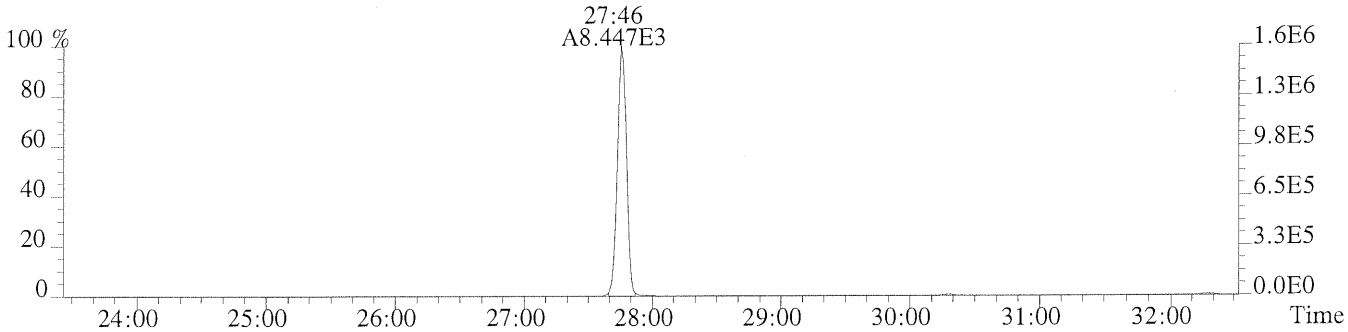
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,840.0,1.00%,F,T)



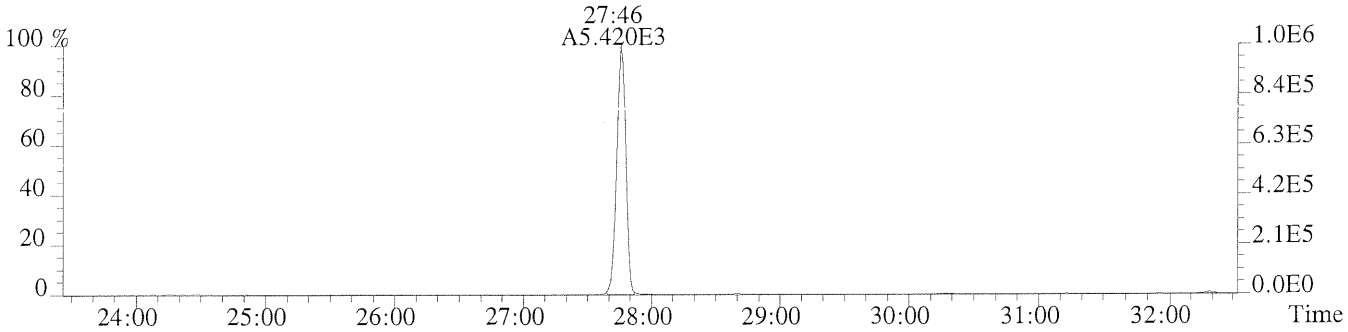
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,968.0,1.00%,F,T)



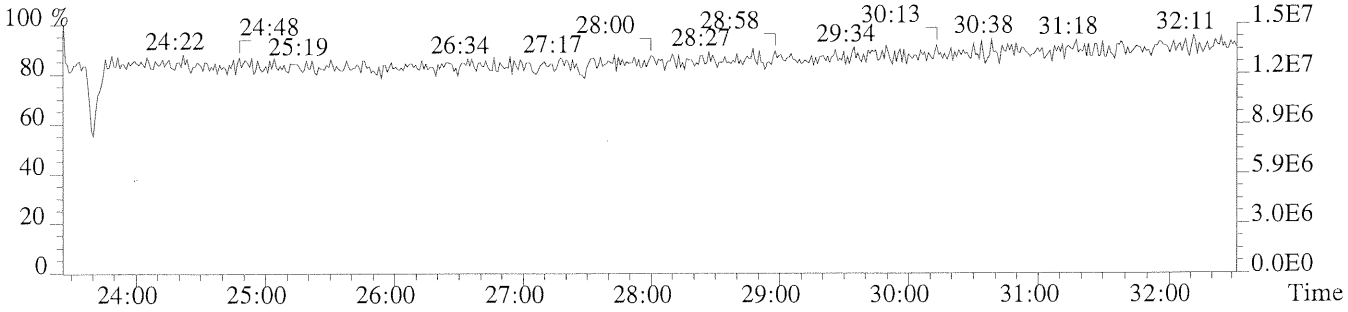
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1016.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)

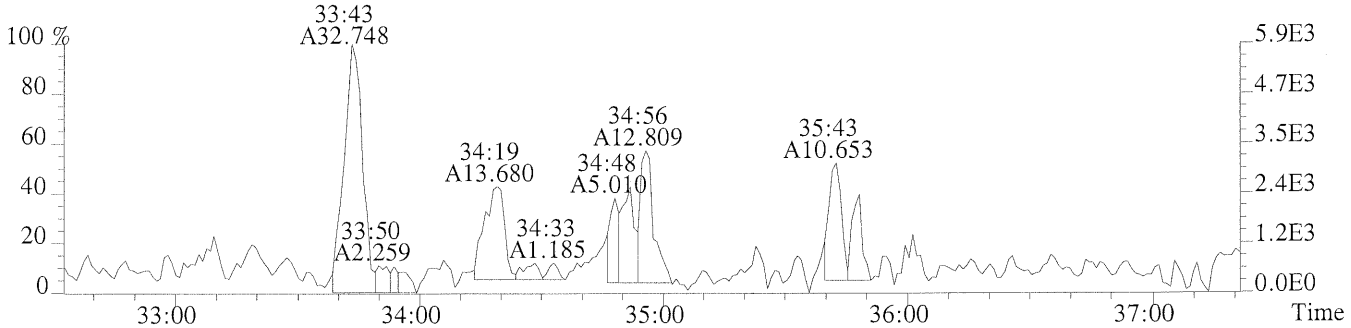


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

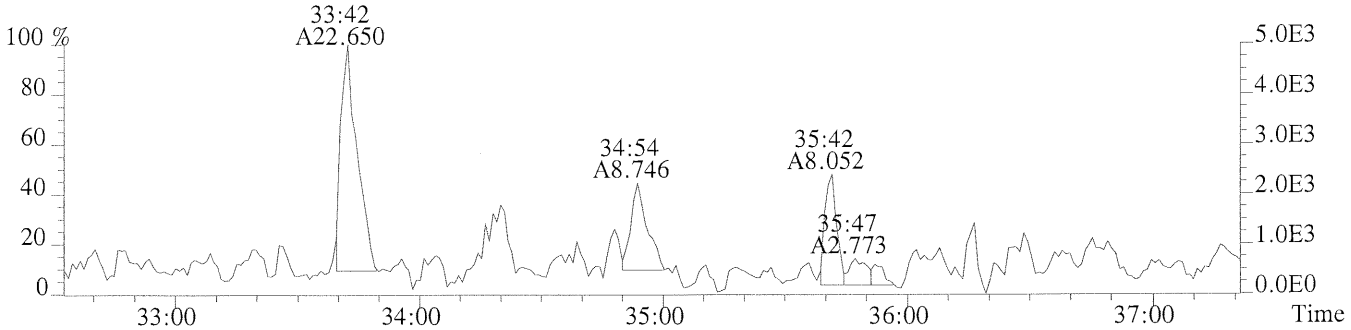


File:U142056 #1-308 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

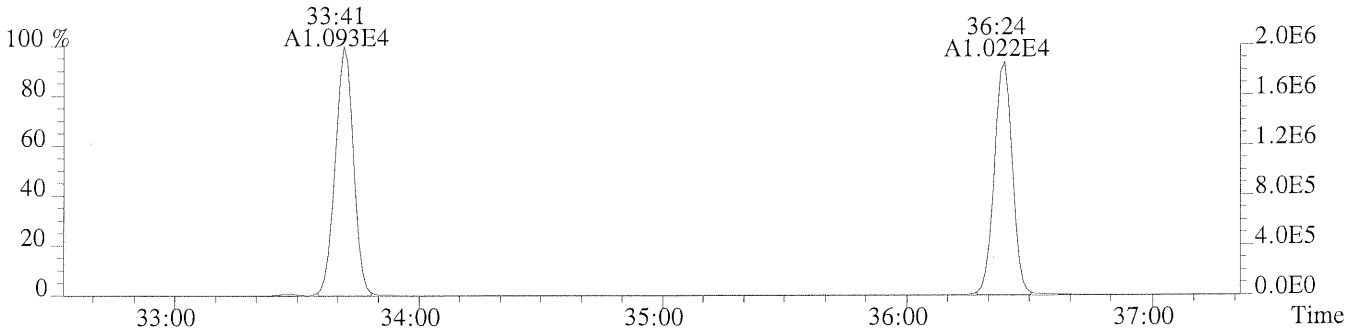
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



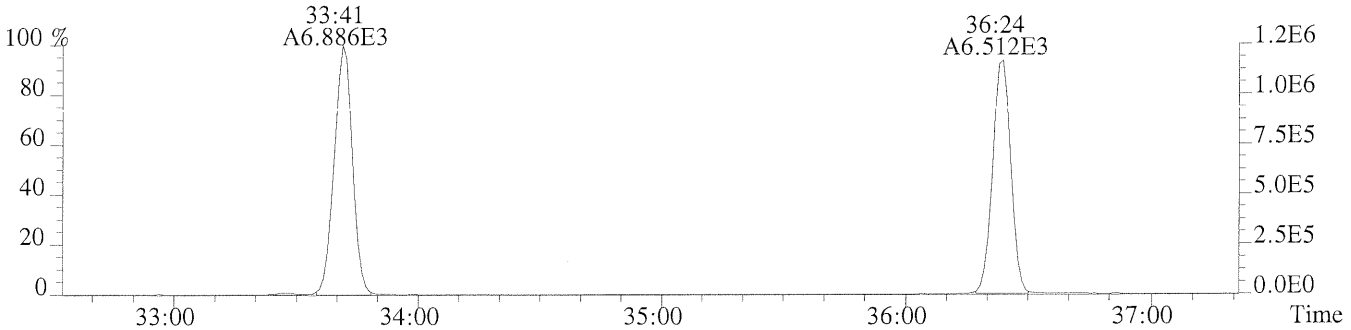
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,756.0,1.00%,F,T)



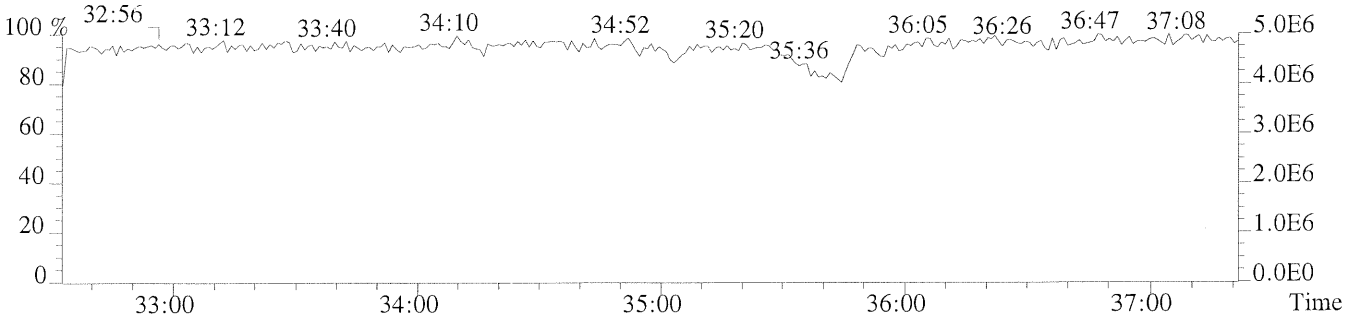
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1032.0,1.00%,F,T)



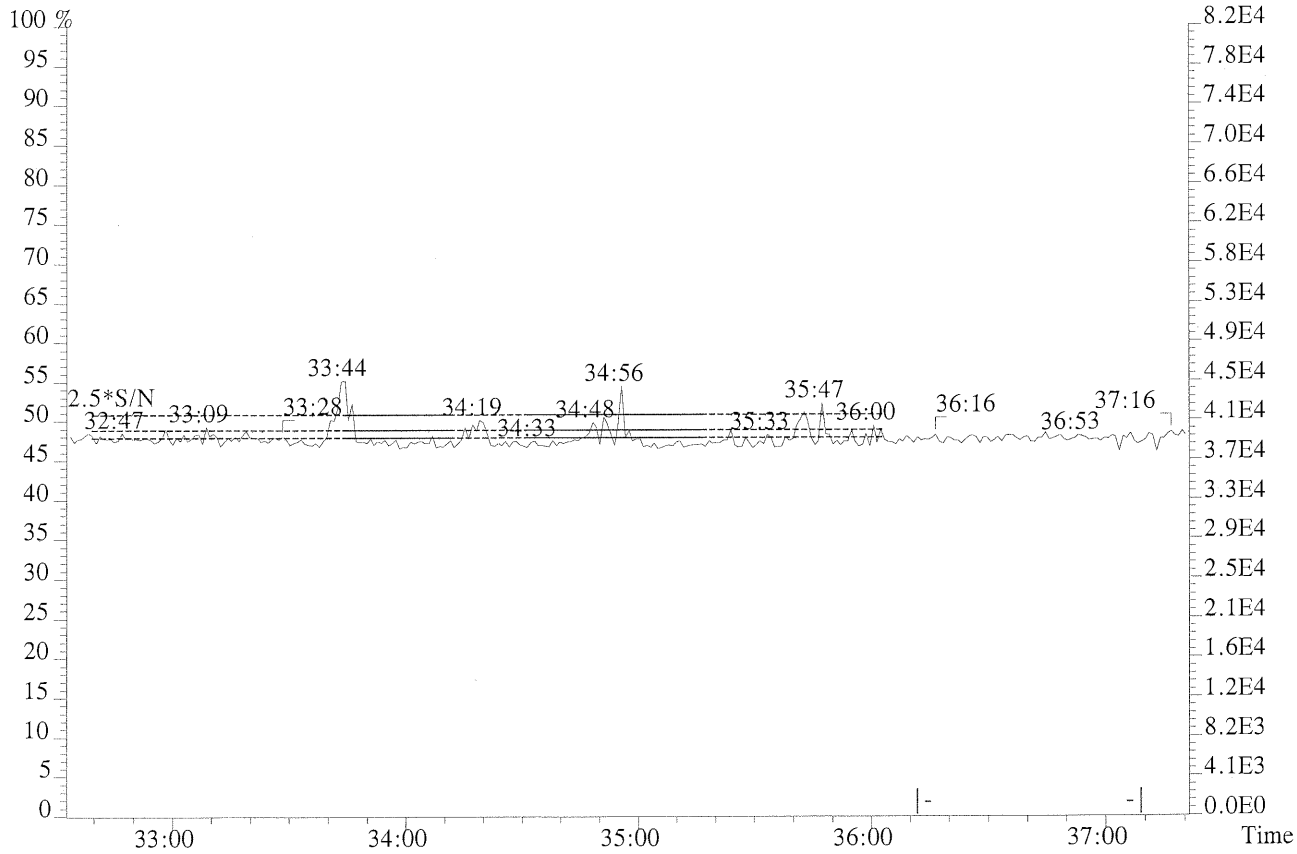
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



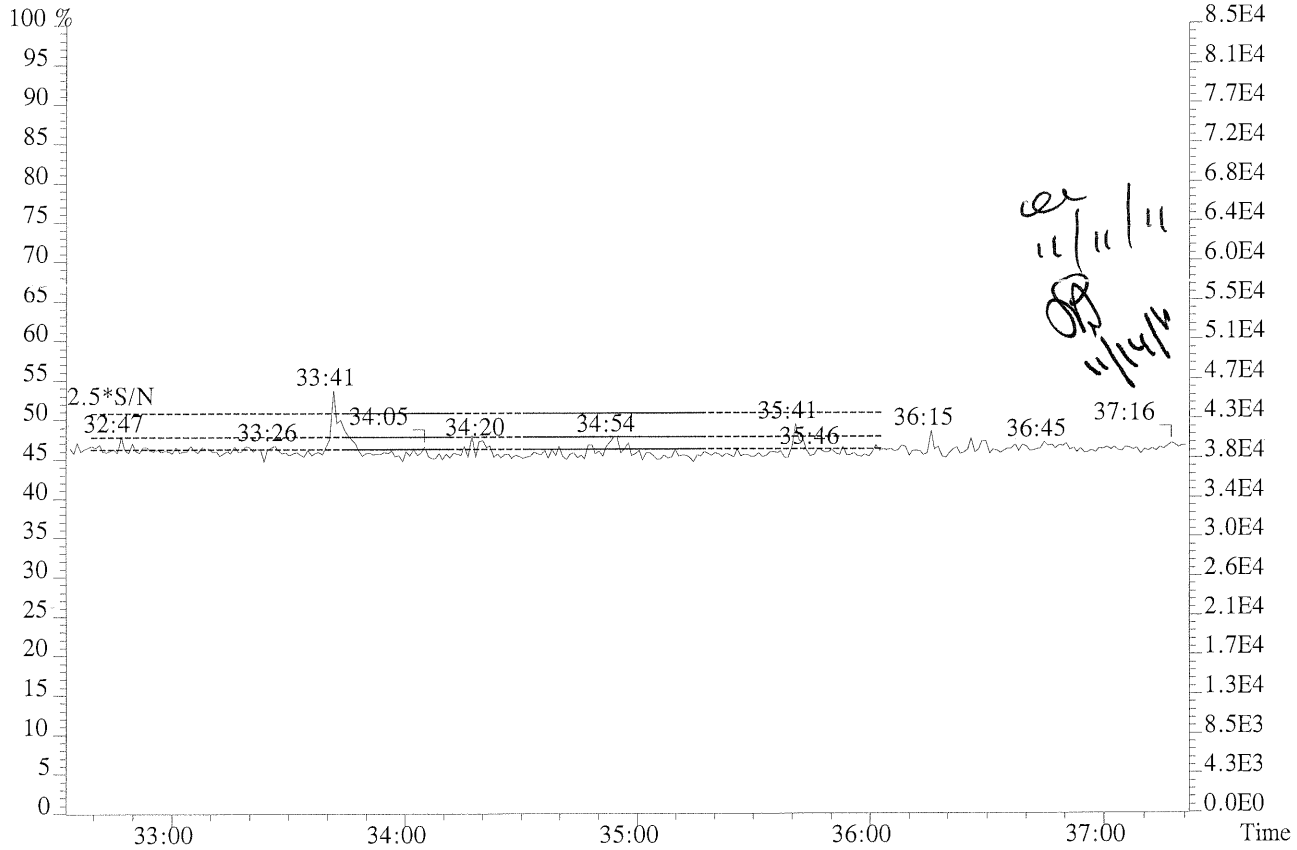
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142056 #1-308 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:EQ1100494-01 MB
325.8804 F:4

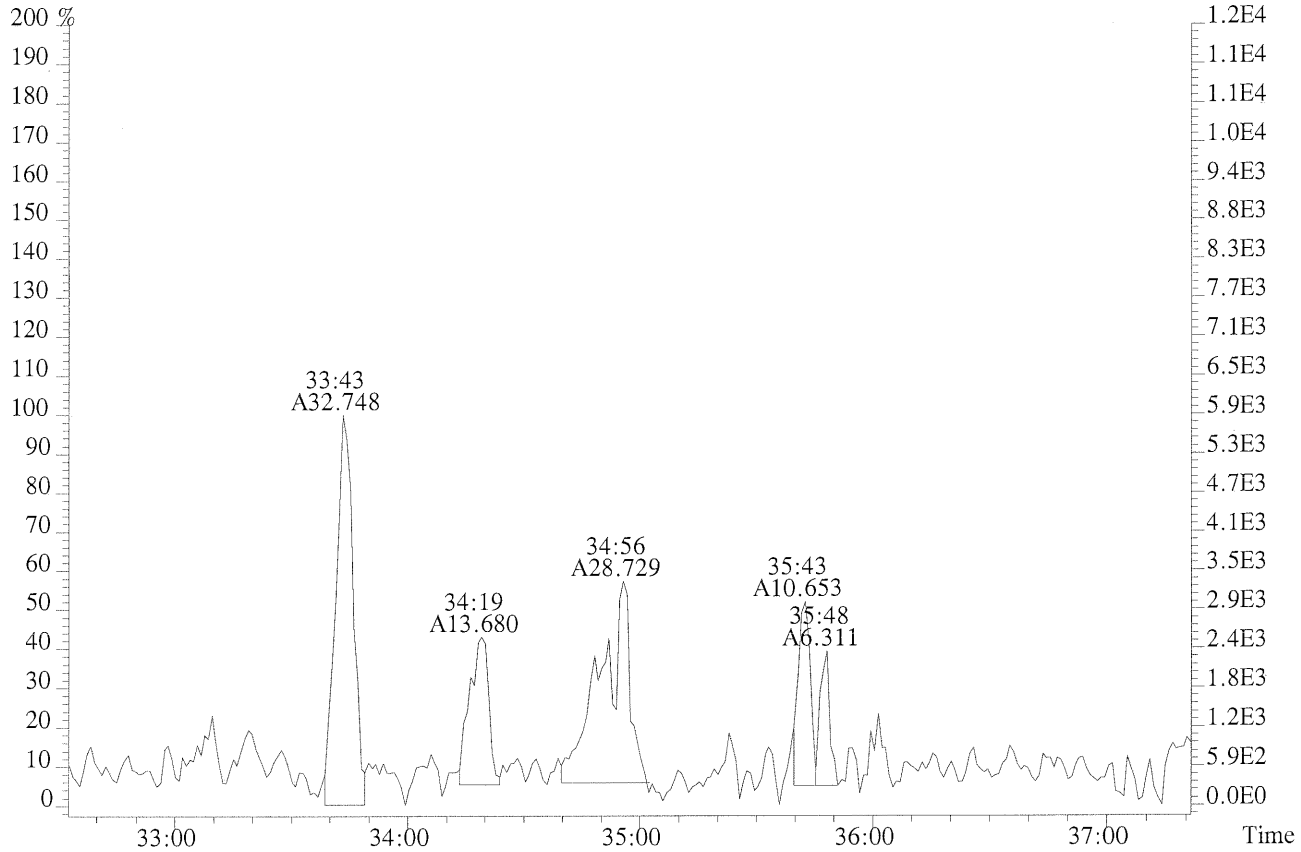


327.8775 F:4

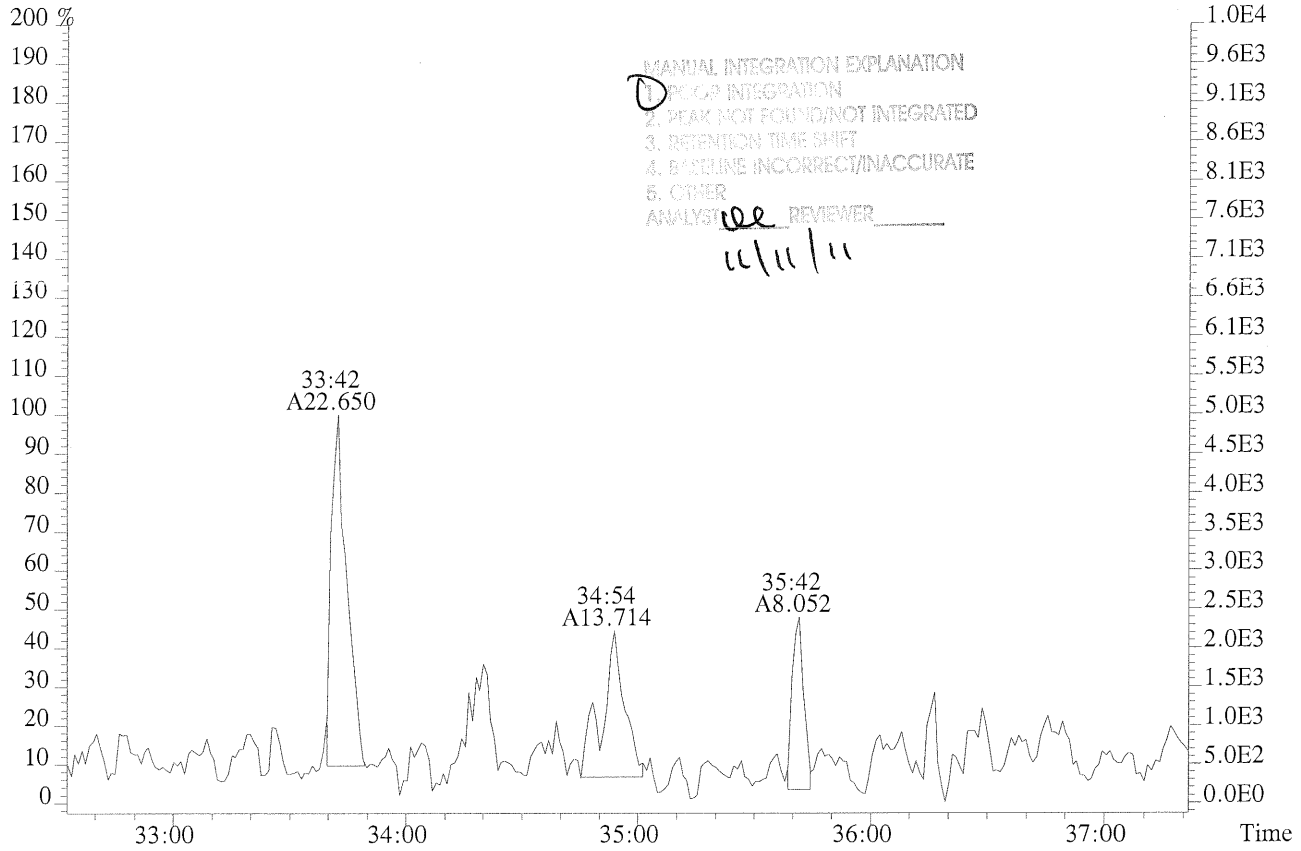


ce 11/11/11
SA 11/14/11

File:U142056 #1-308 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:EQ1100494-01 MB
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



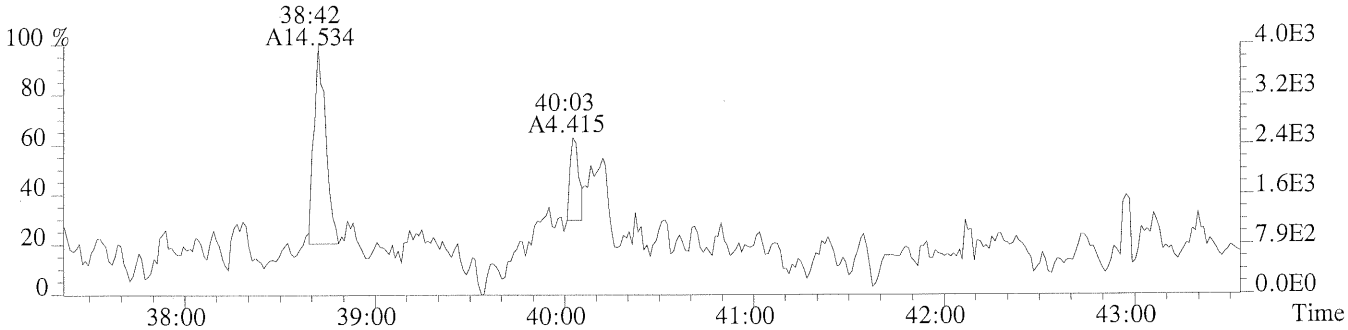
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,756.0,1.00%,F,T)



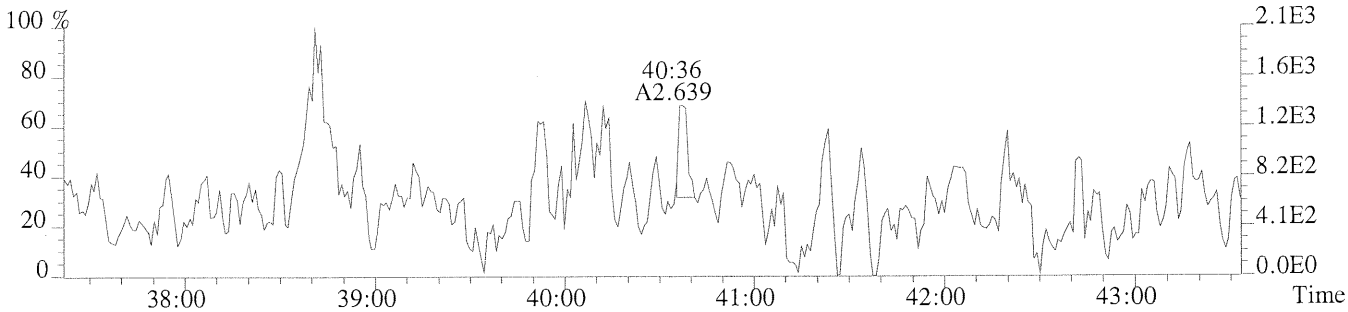
MANUAL INTEGRATION EXPLANATION
1. PROP INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST ee REVIEWER _____
11/11/11

File:U142056 #1-396 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

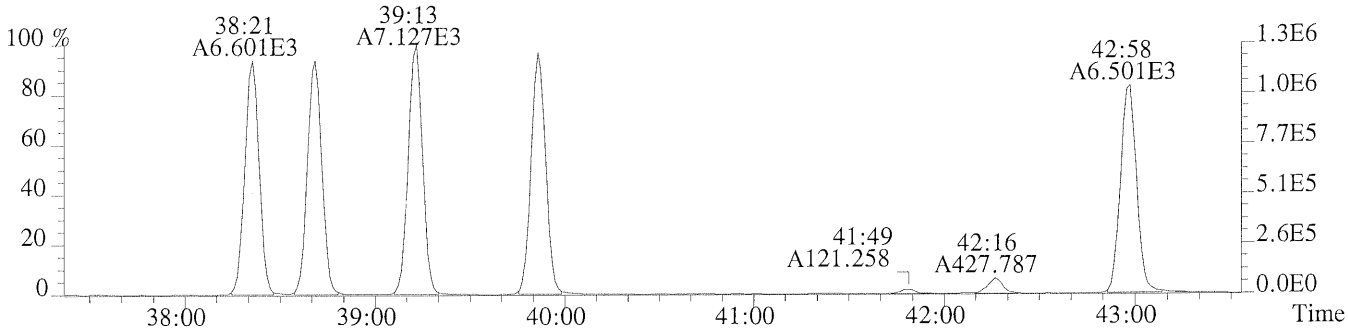
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)



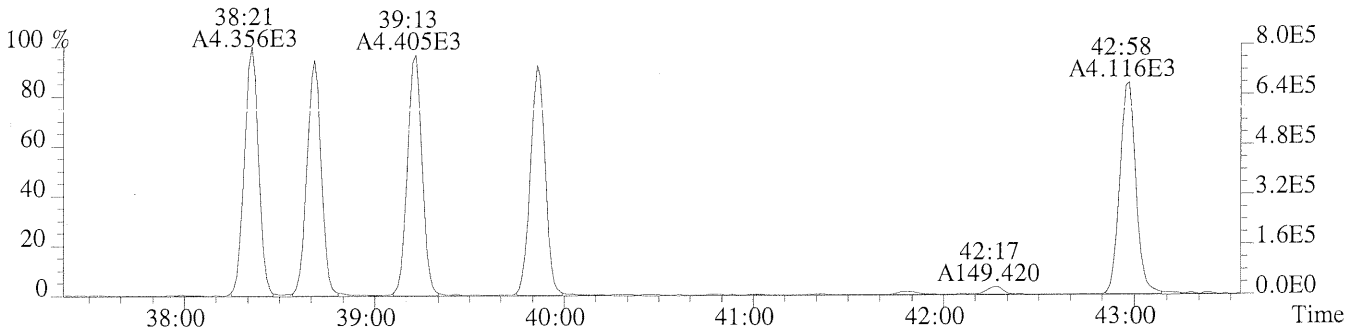
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)



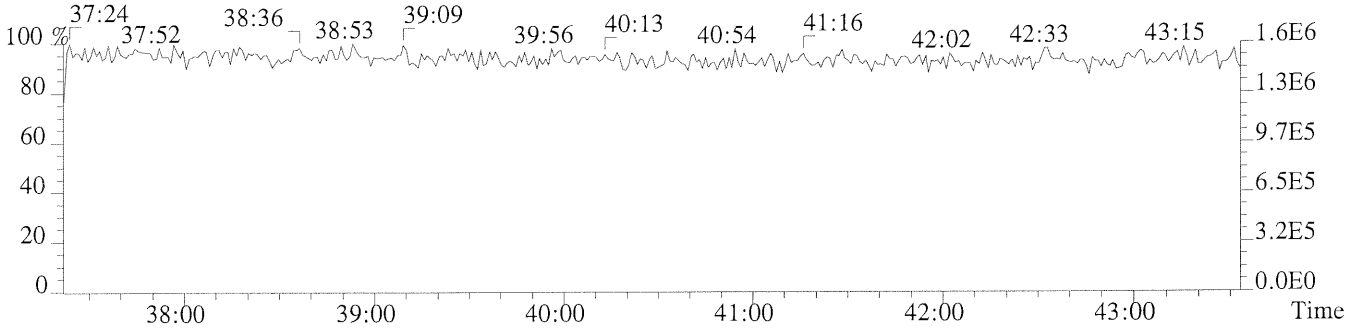
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2092.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)

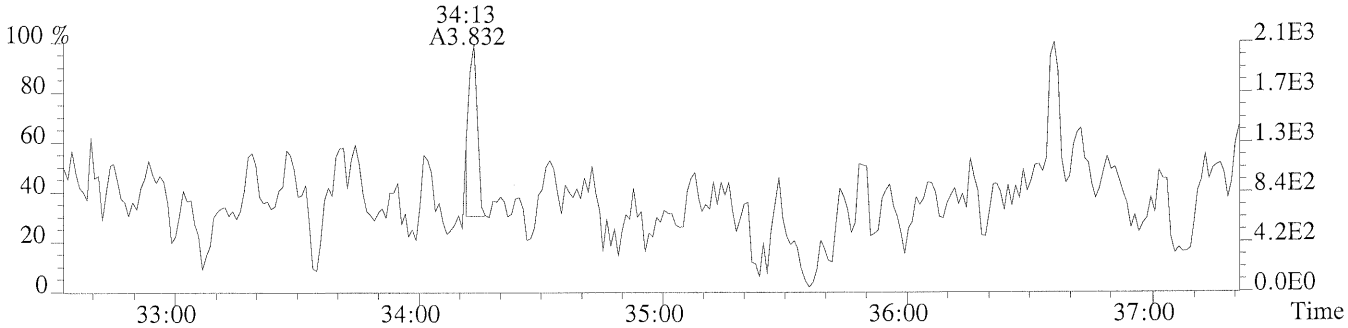


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

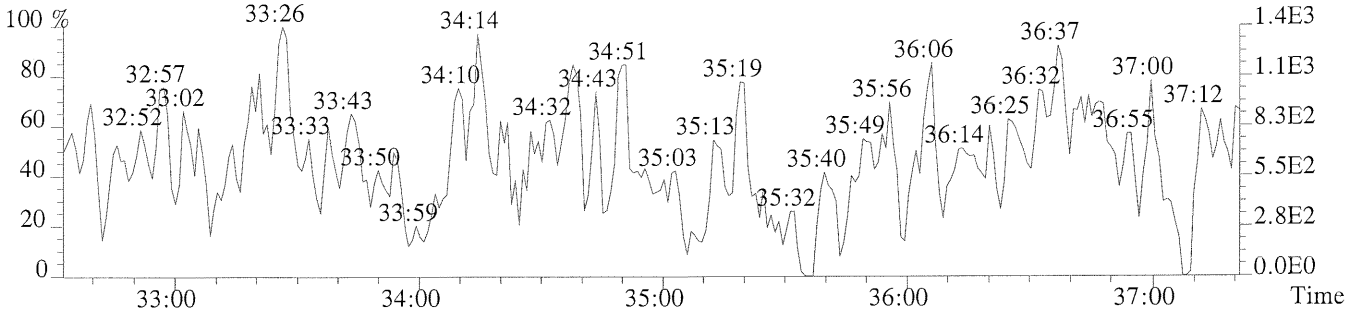


File:U142056 #1-308 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

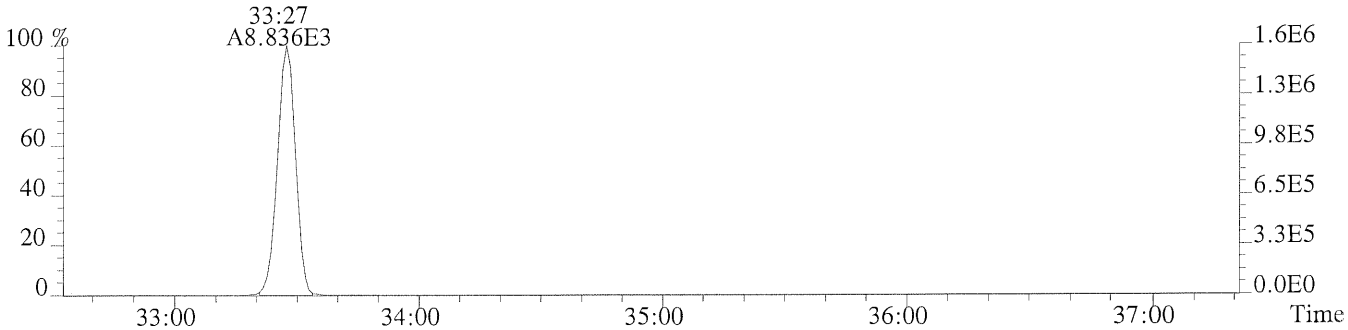
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1088.0,1.00%,F,T)



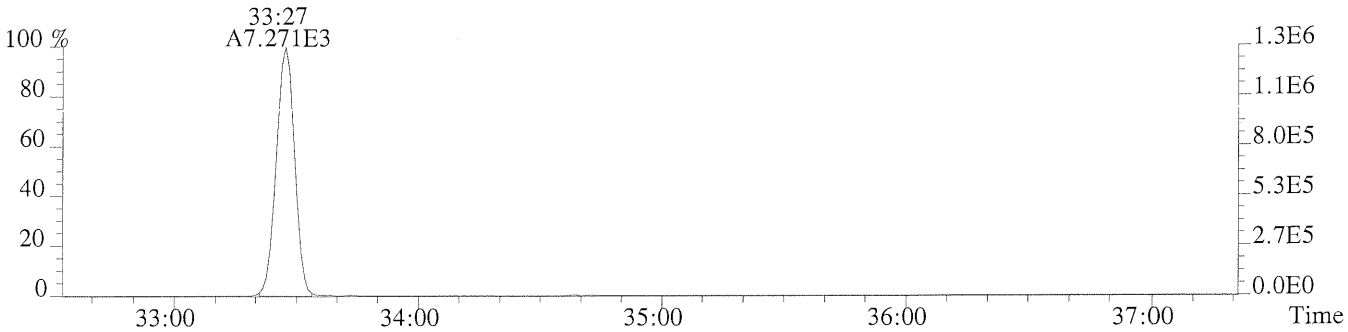
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



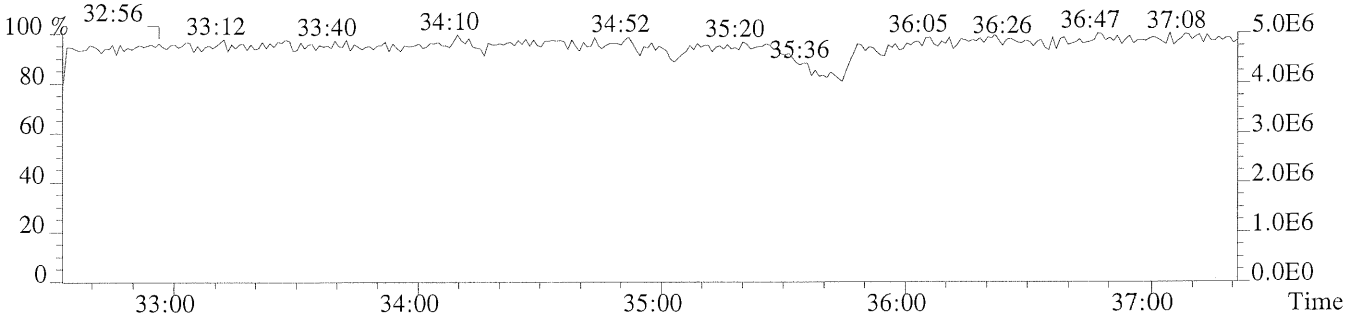
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,672.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)

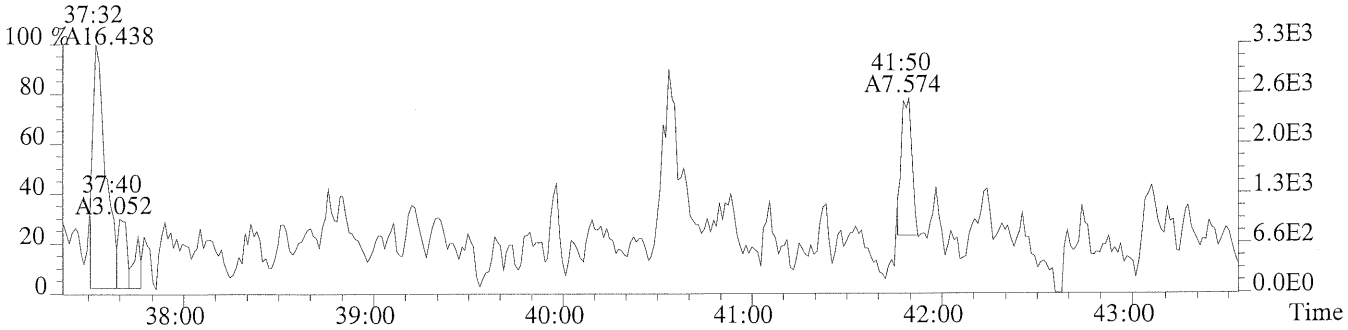


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

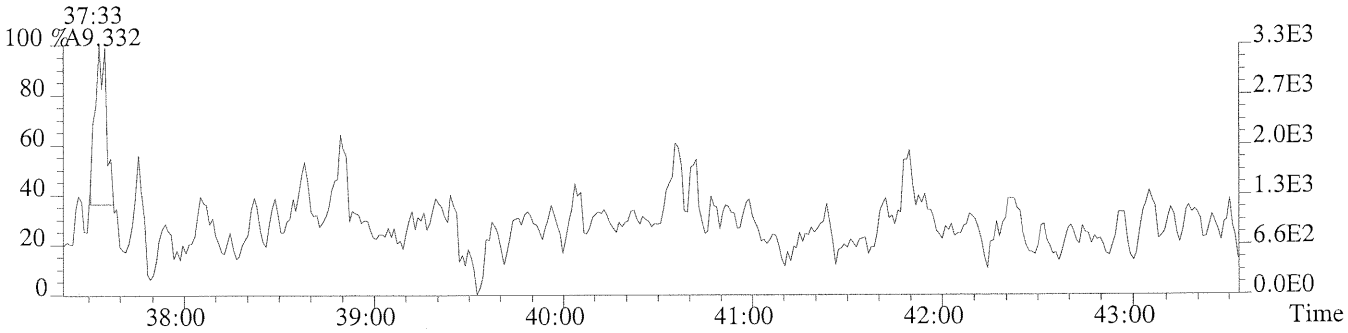


File:U142056 #1-396 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

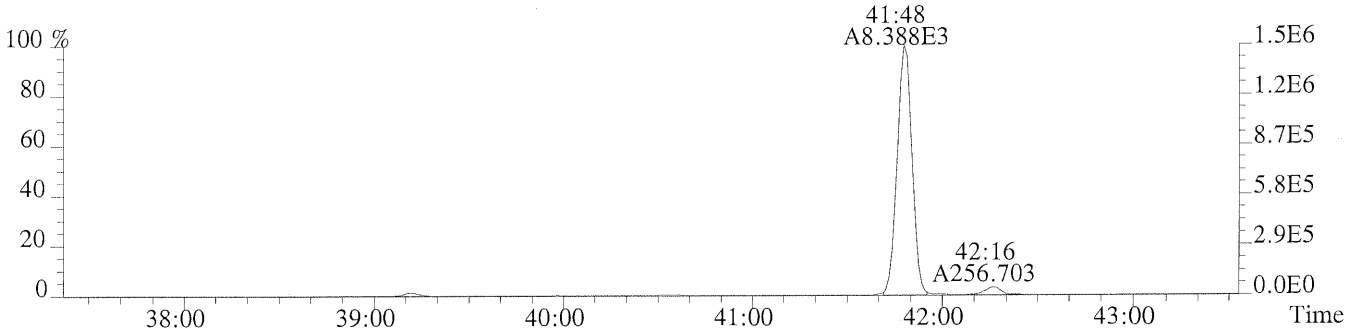
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



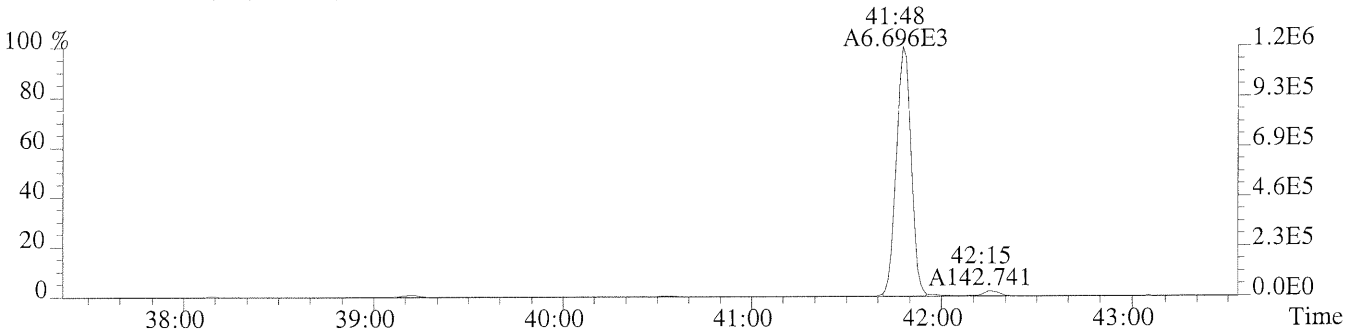
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1152.0,1.00%,F,T)



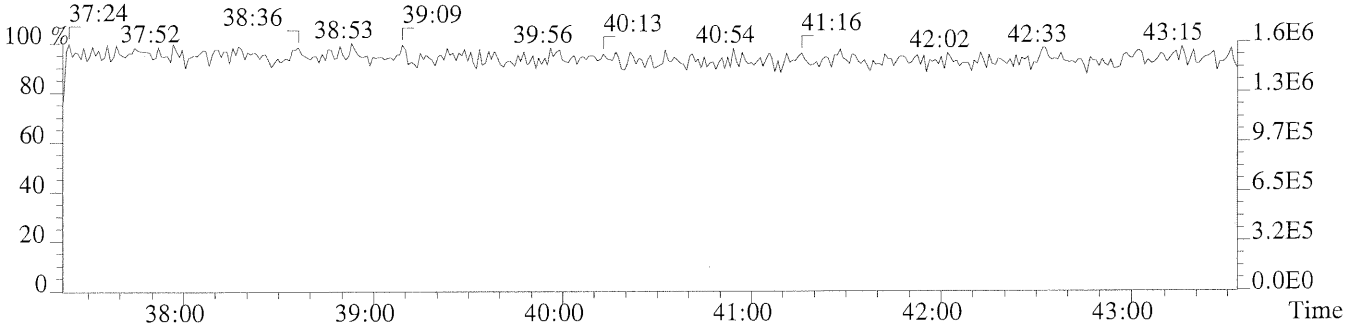
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,808.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,644.0,1.00%,F,T)

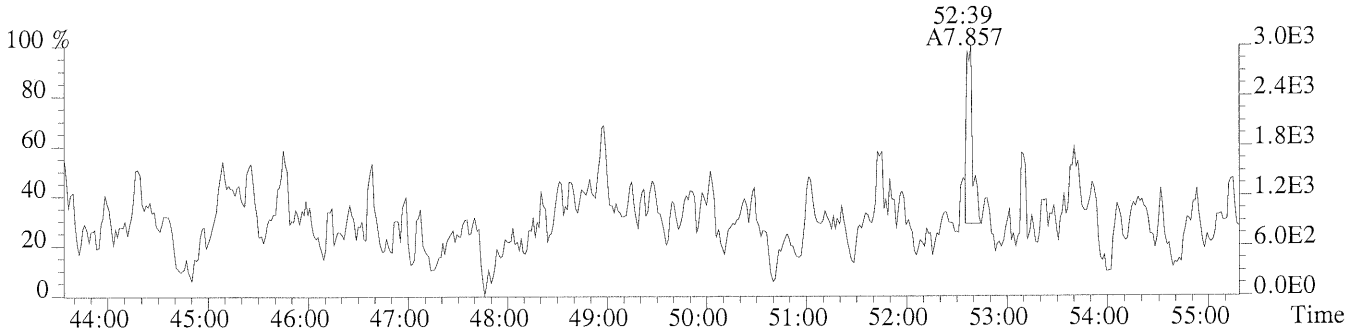


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

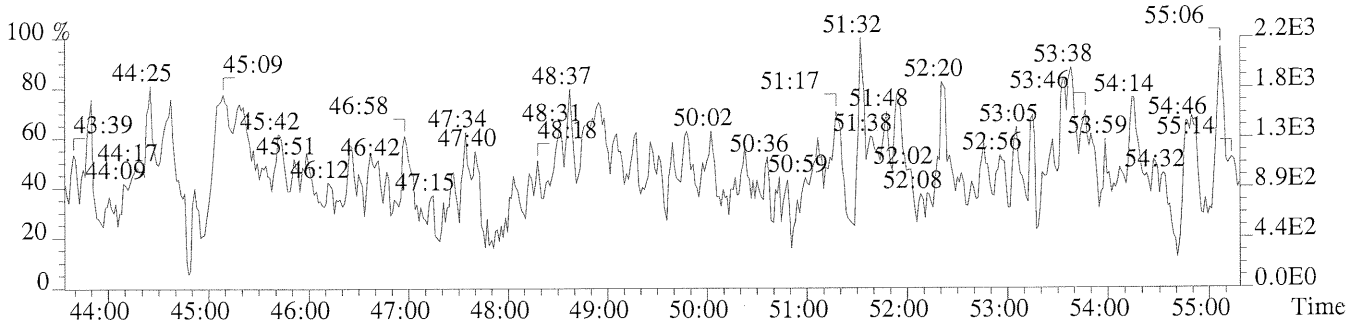


File:U142056 #1-582 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

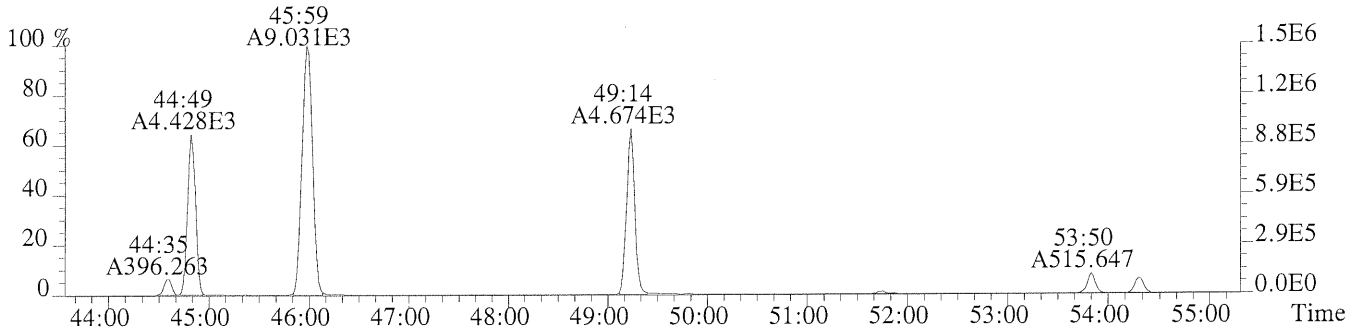
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1160.0,1.00%,F,T)



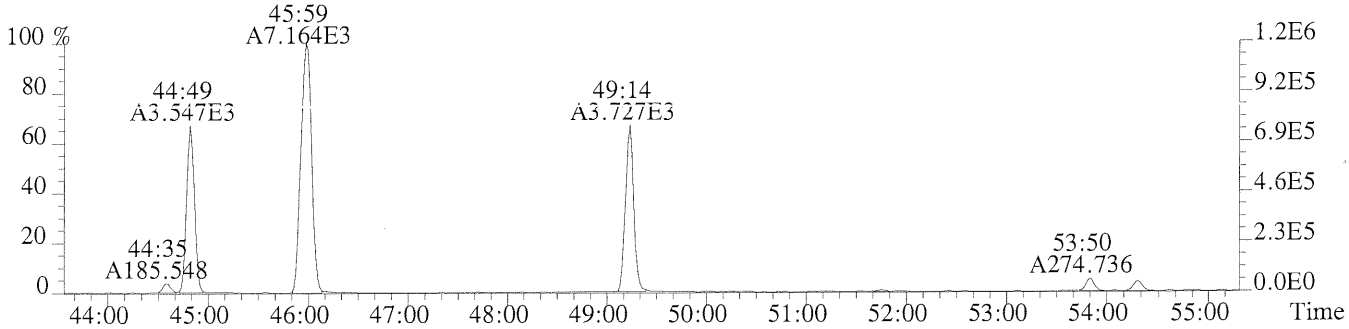
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1360.0,1.00%,F,T)



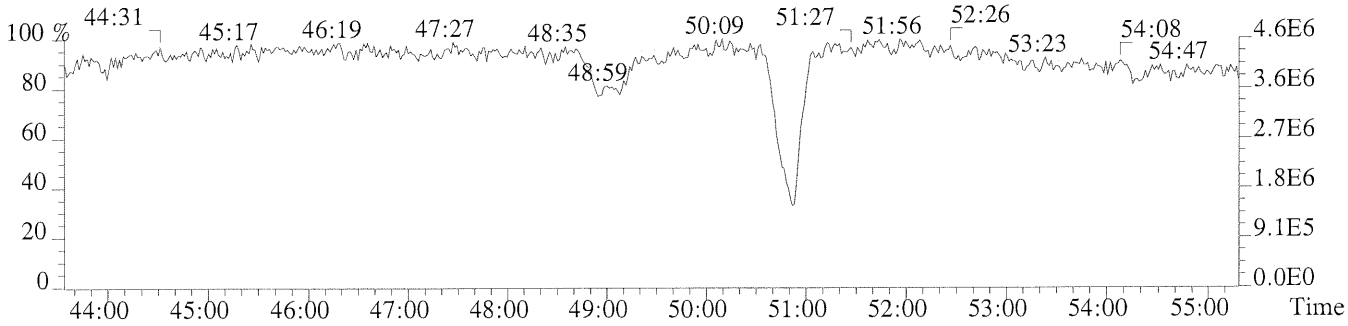
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



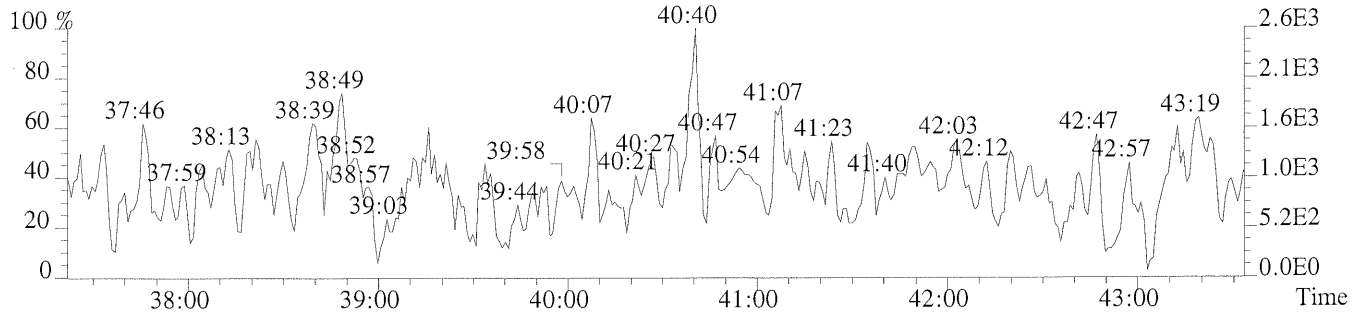
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1916.0,1.00%,F,T)



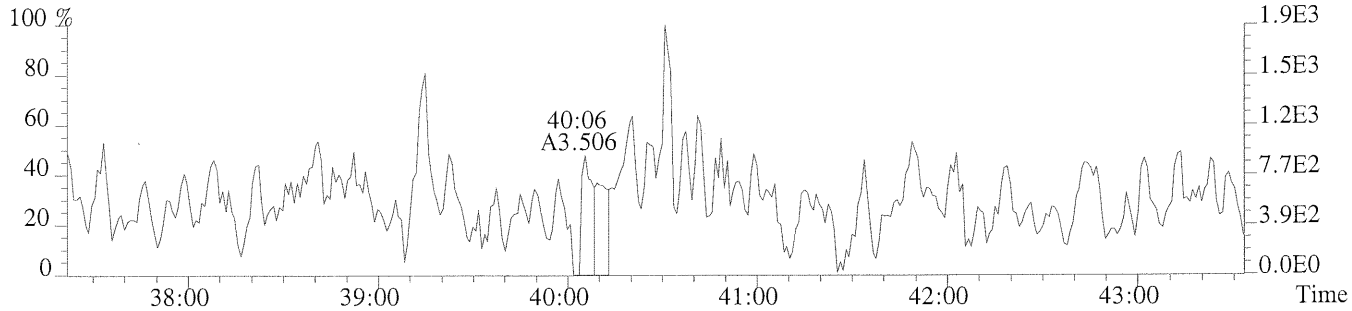
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



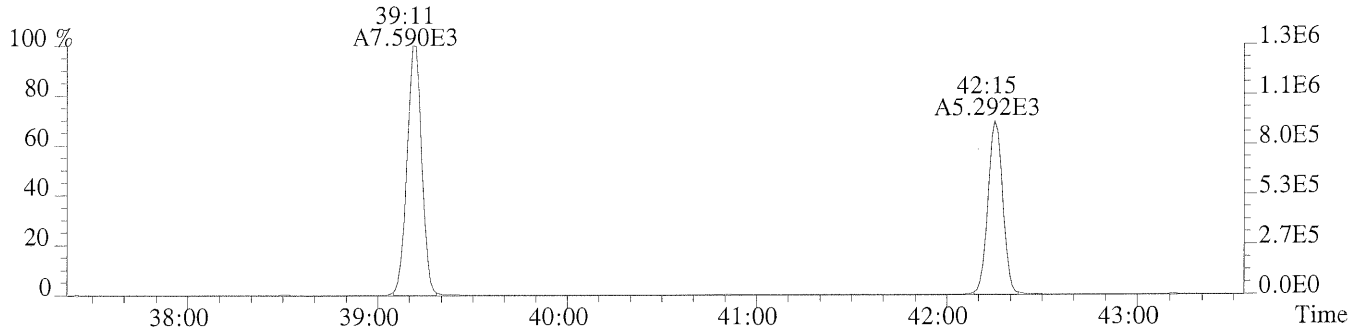
File:U142056 #1-396 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



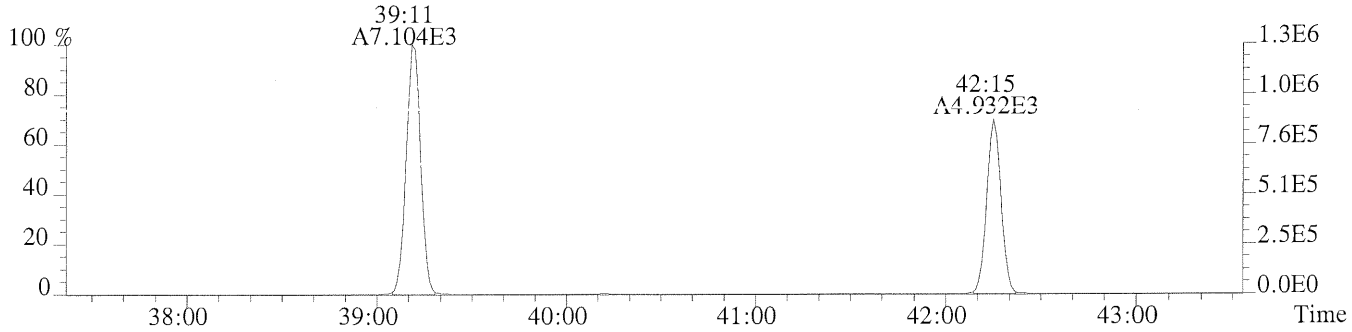
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,748.0,1.00%,F,T)



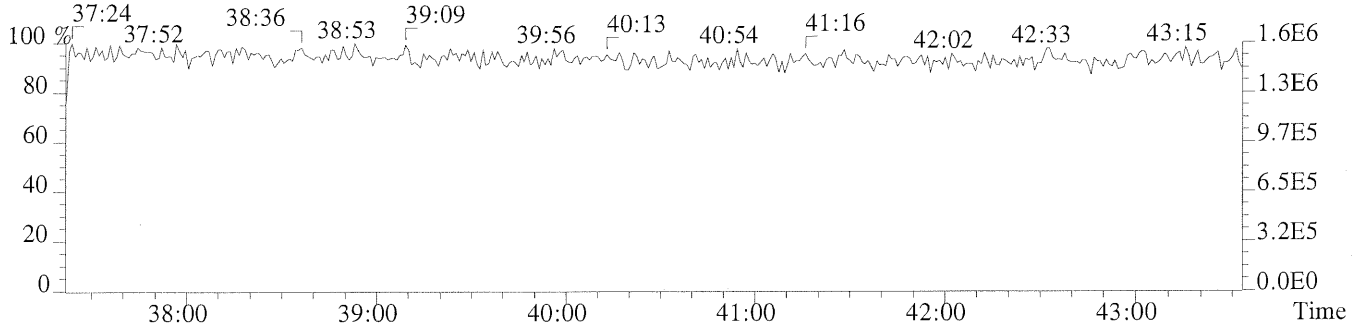
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1212.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)

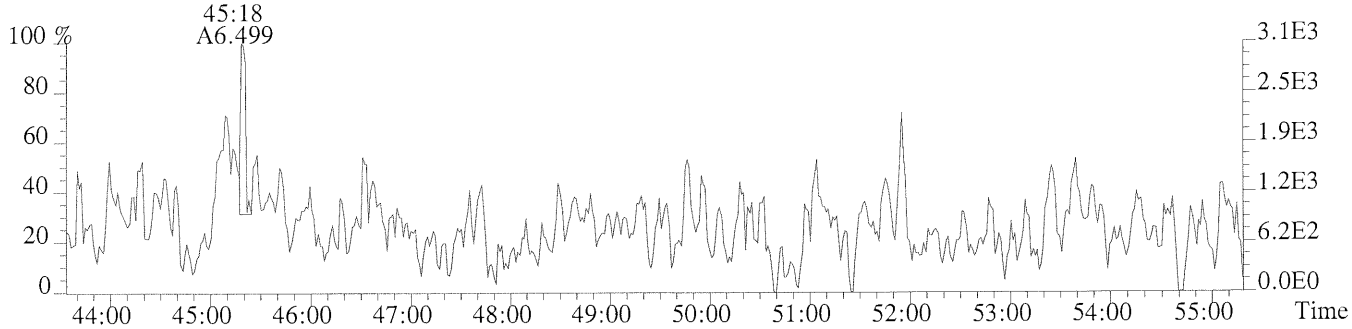


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

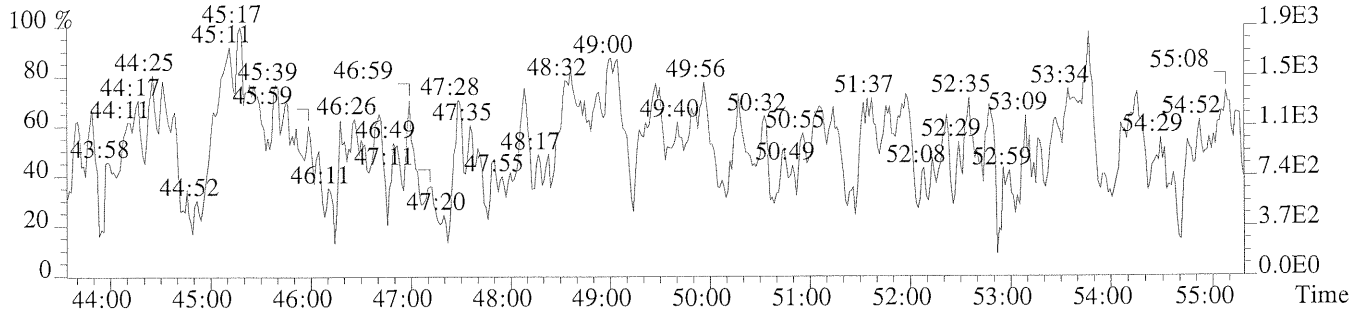


File:U142056 #1-582 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

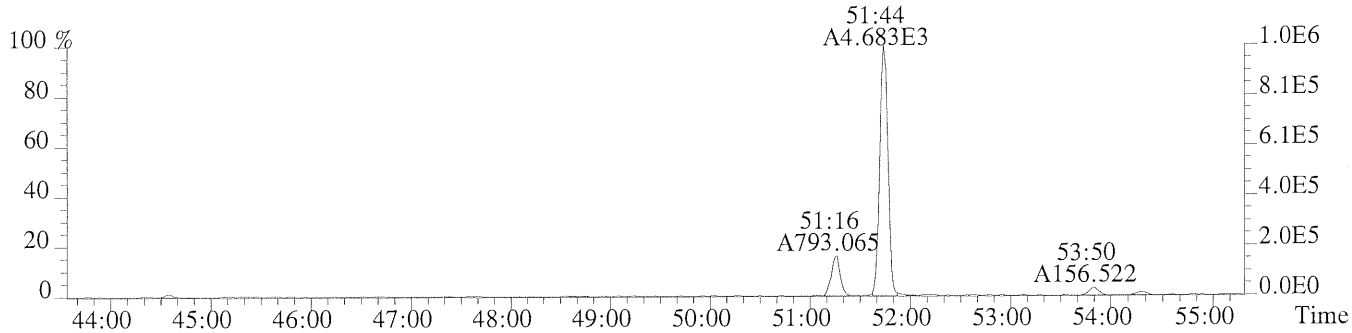
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)



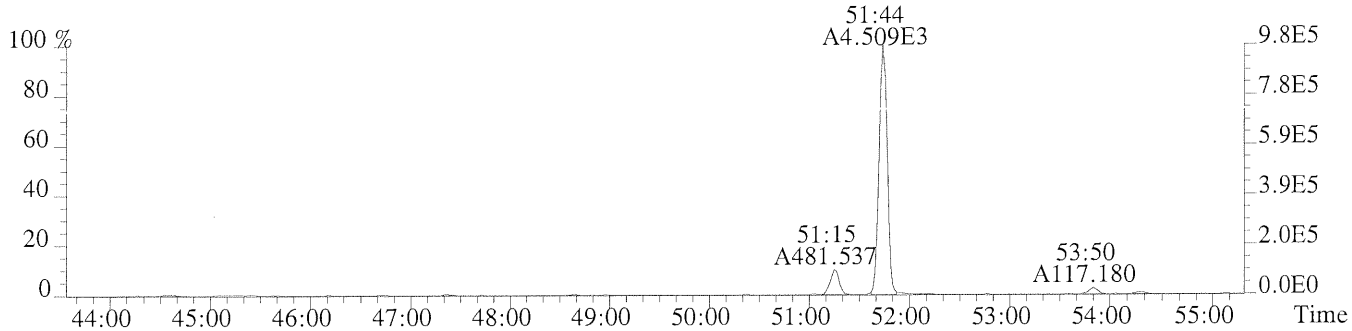
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1292.0,1.00%,F,T)



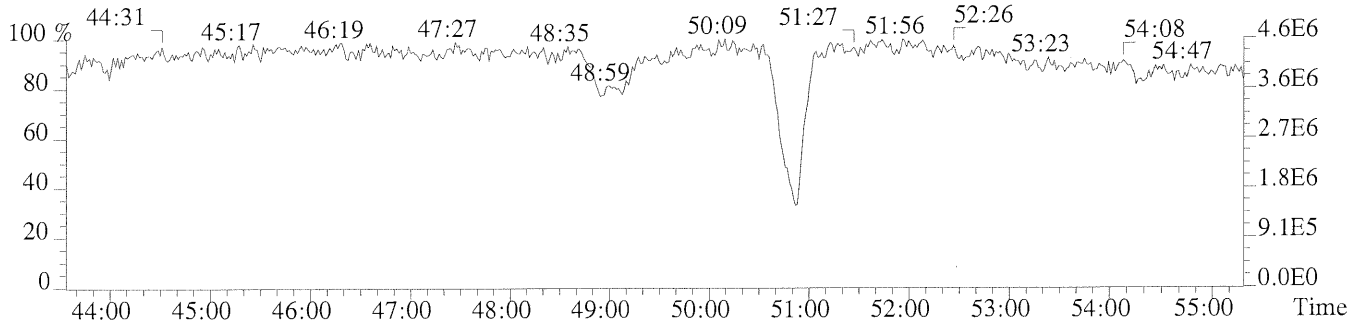
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1328.0,1.00%,F,T)



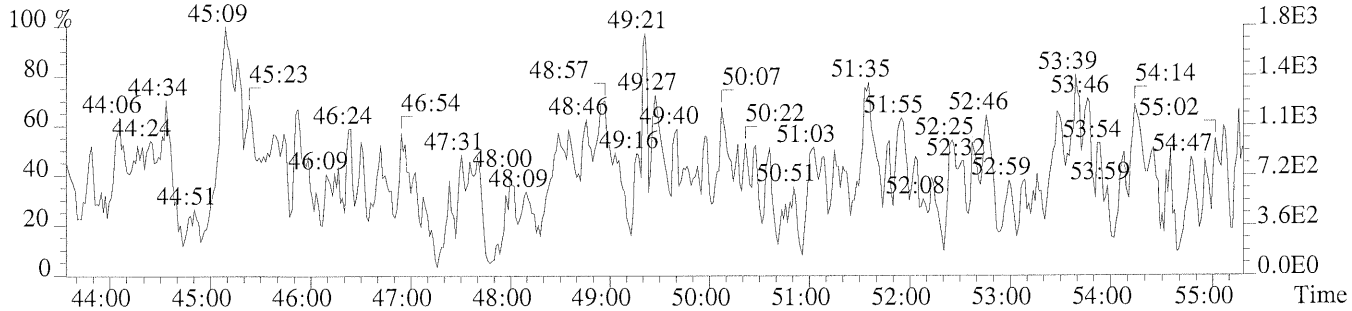
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1056.0,1.00%,F,T)



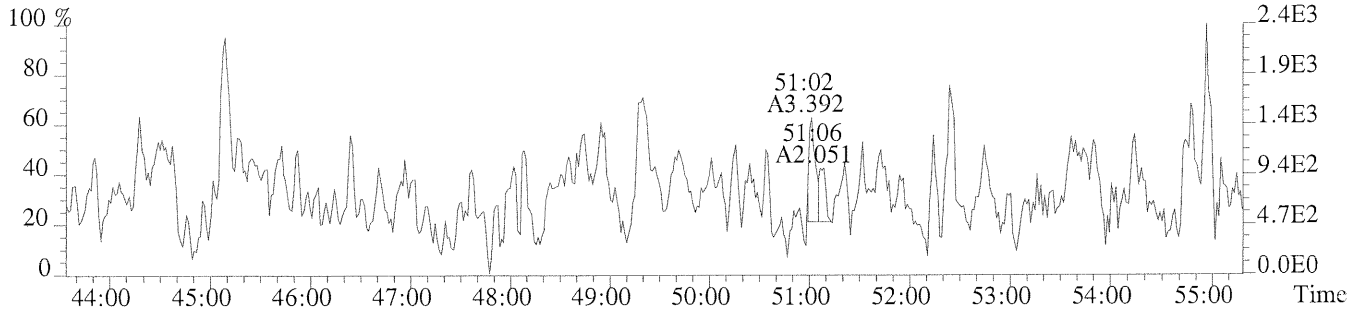
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



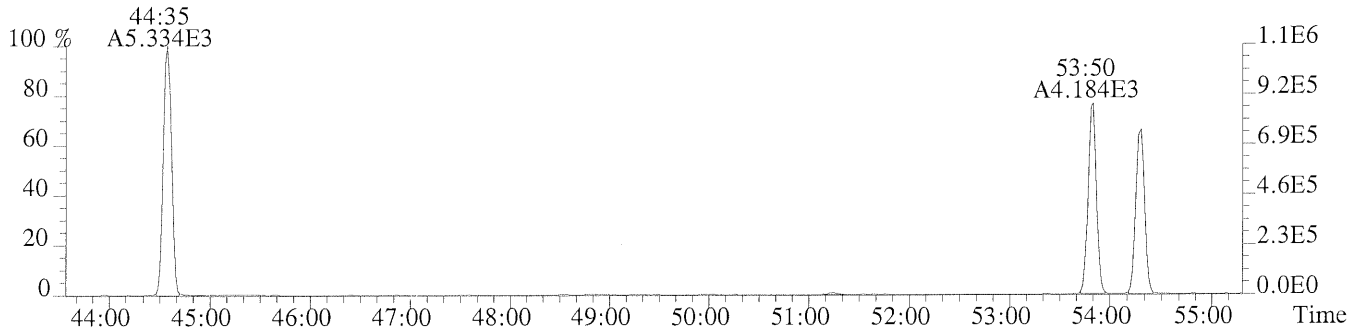
File:U142056 #1-582 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,916.0,1.00%,F,T)



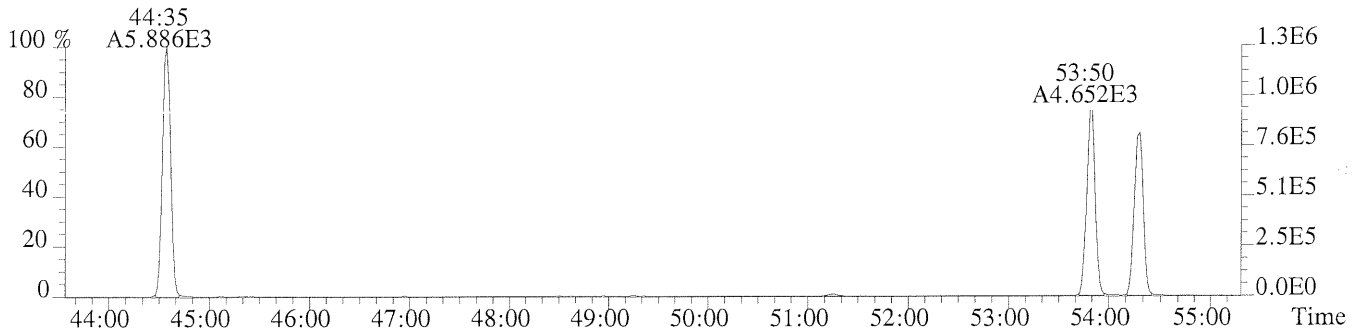
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)



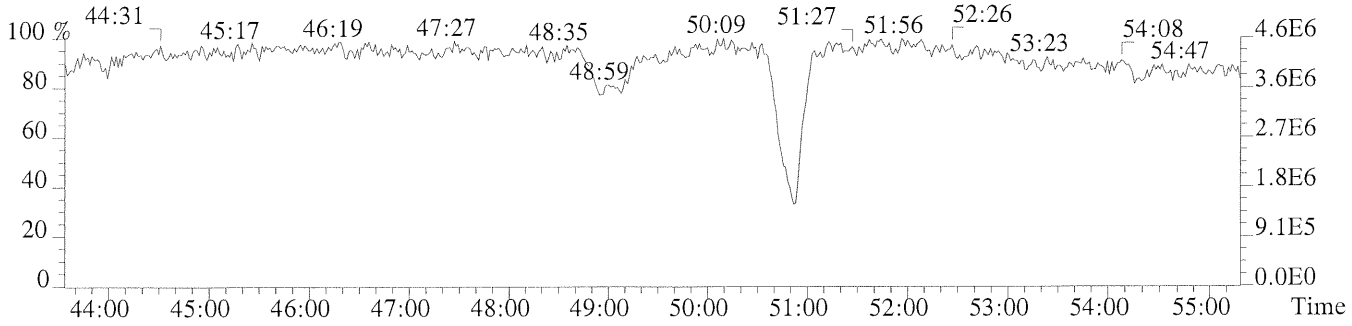
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1616.0,1.00%,F,T)



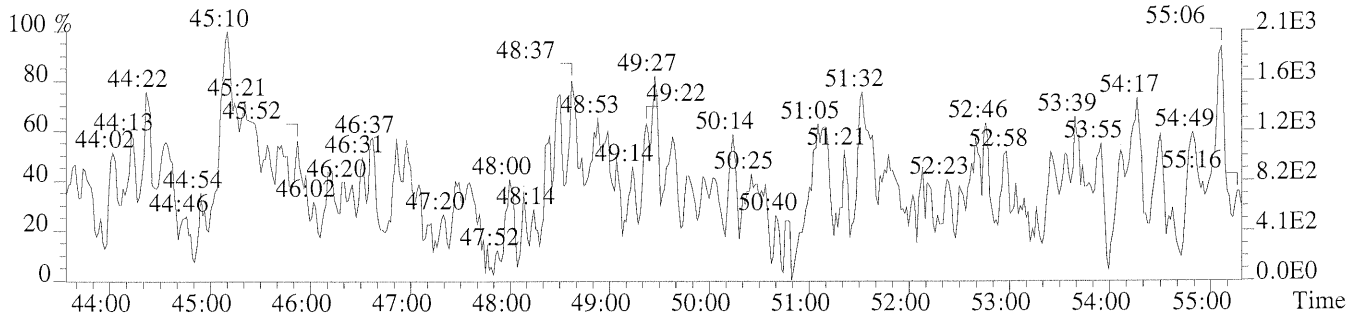
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)



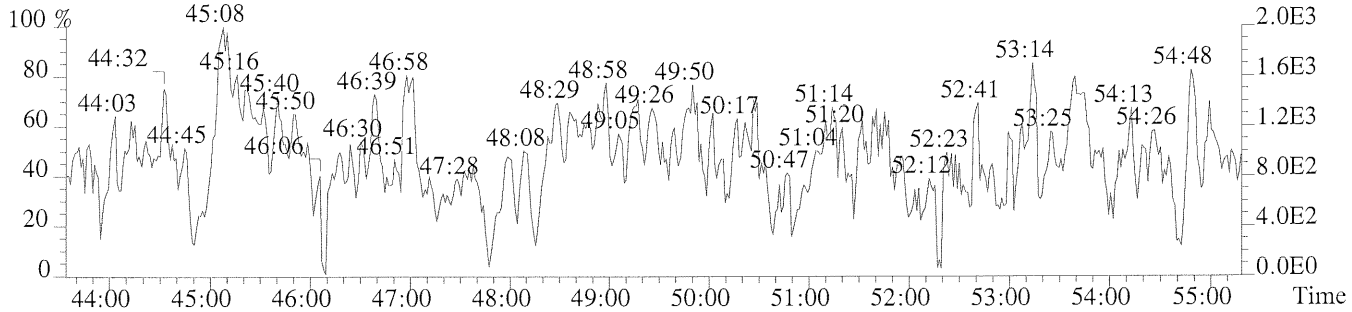
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



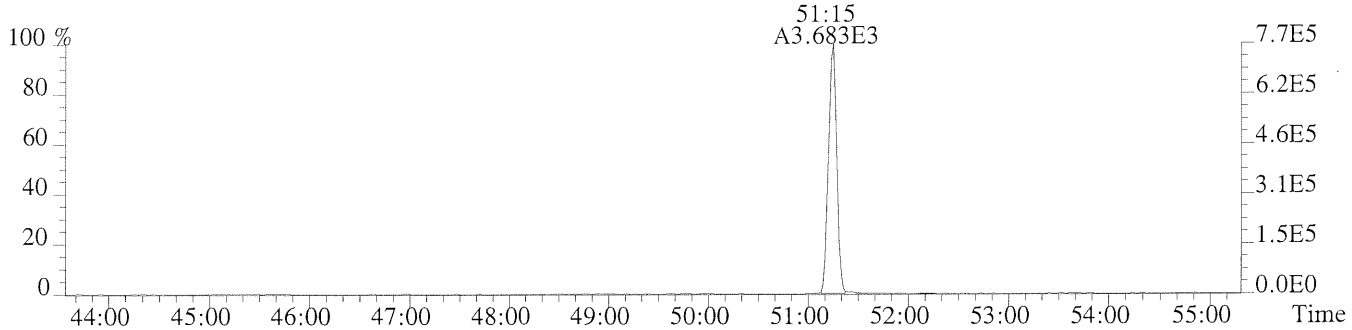
File:U142056 #1-582 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



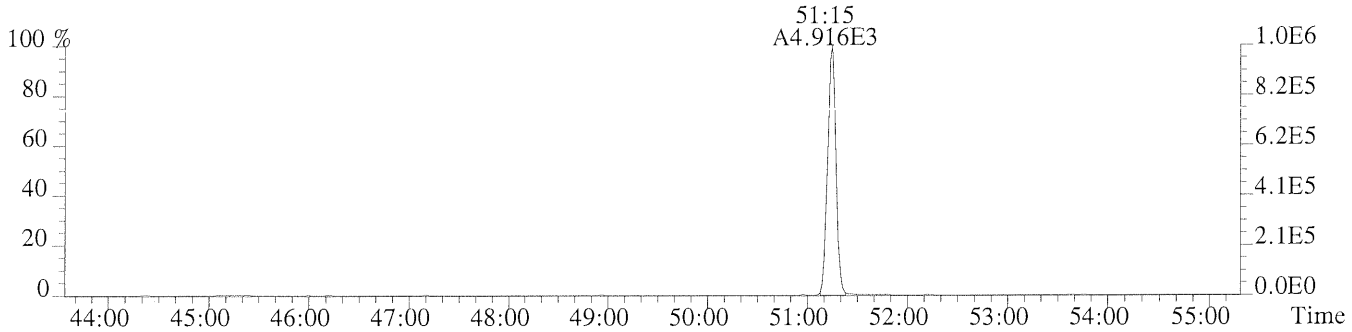
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1248.0,1.00%,F,T)



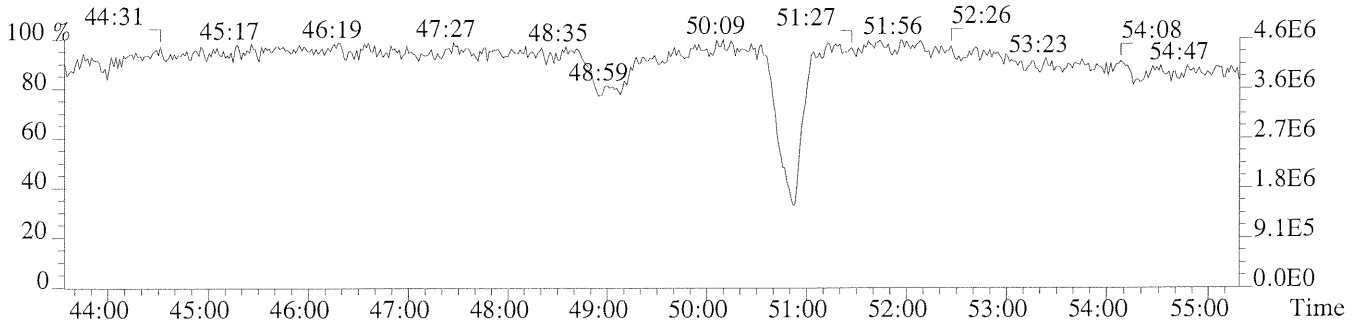
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)

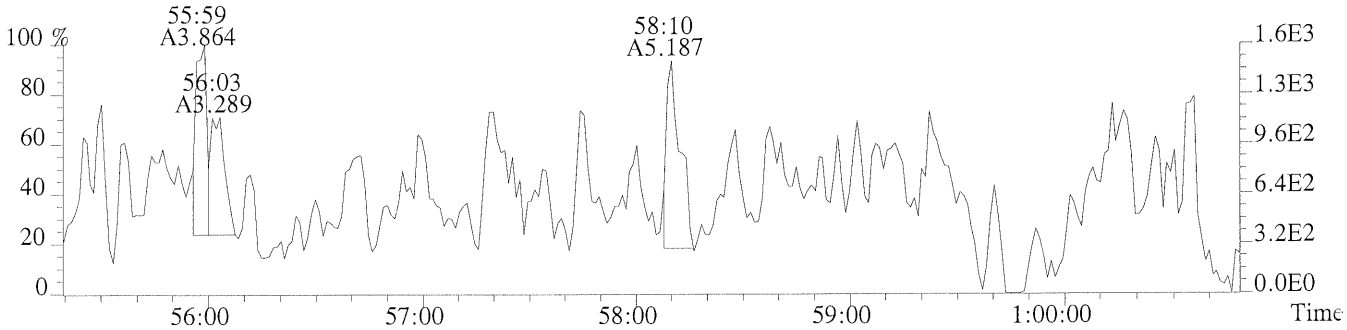


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

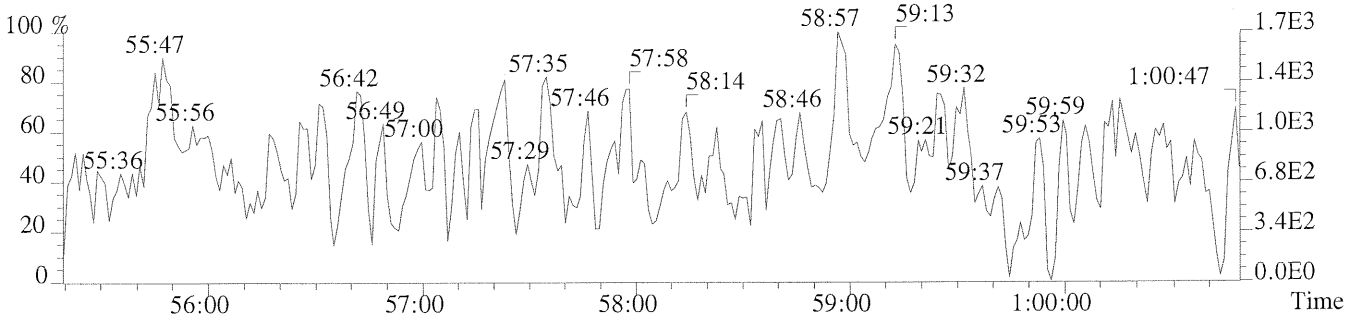


File:U142056 #1-310 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB

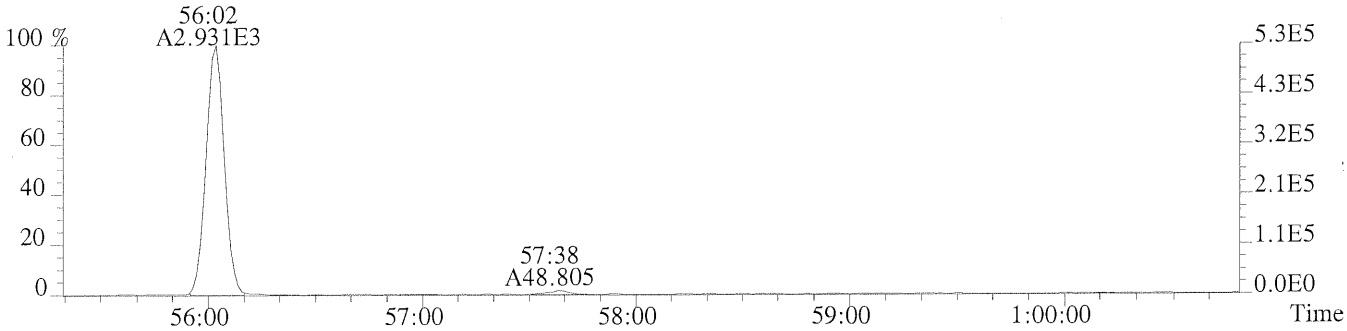
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,748.0,1.00%,F,T)



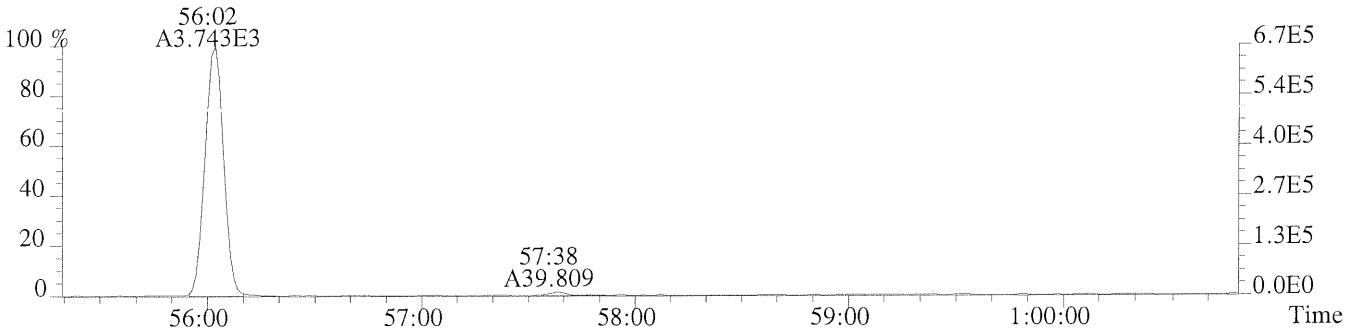
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



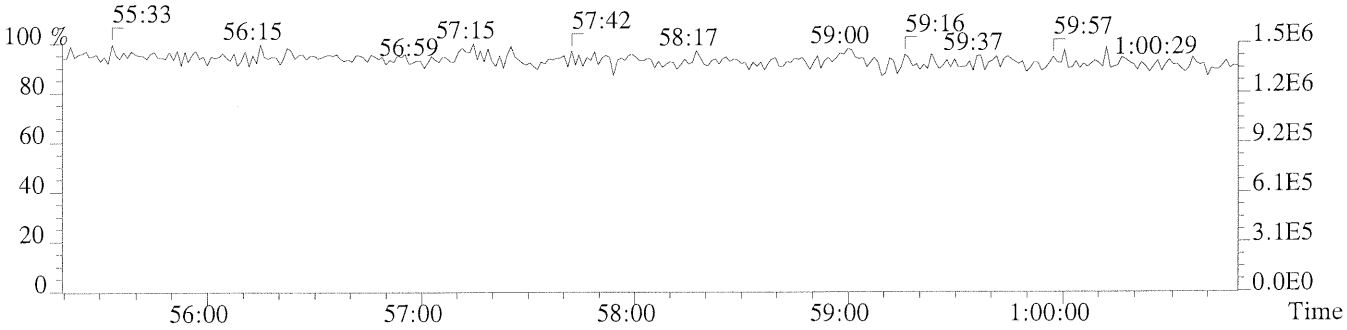
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)



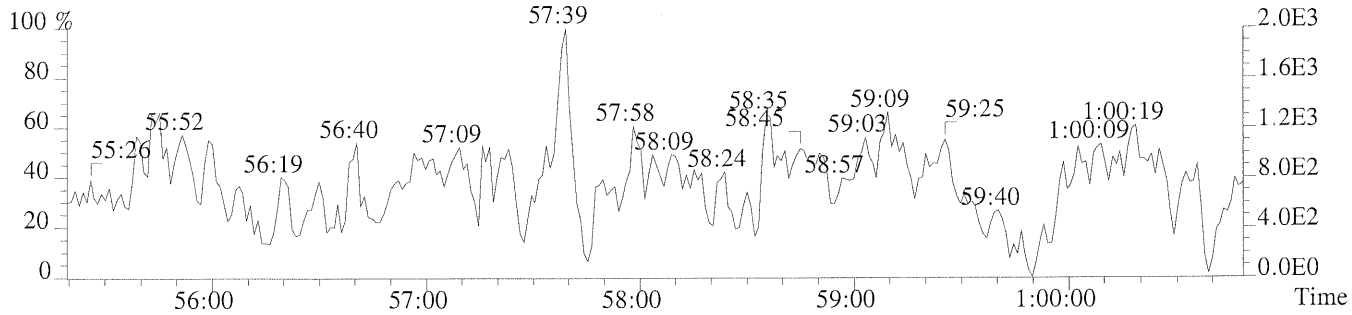
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)



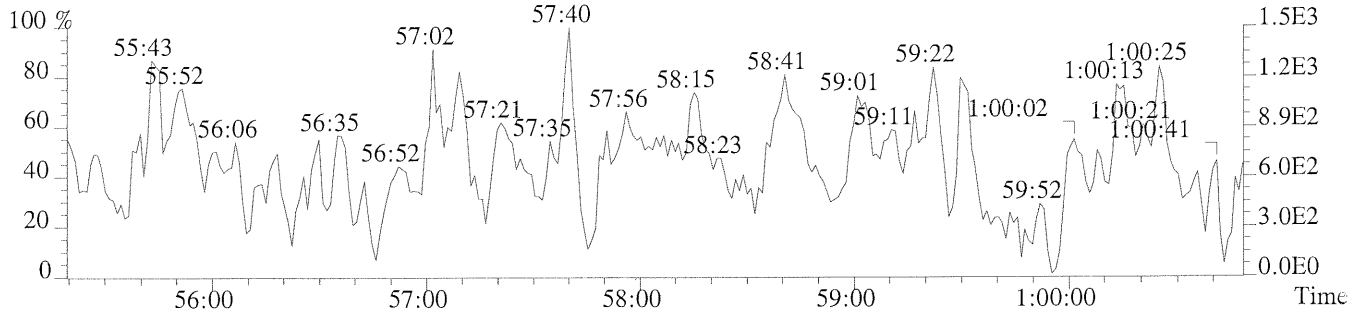
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



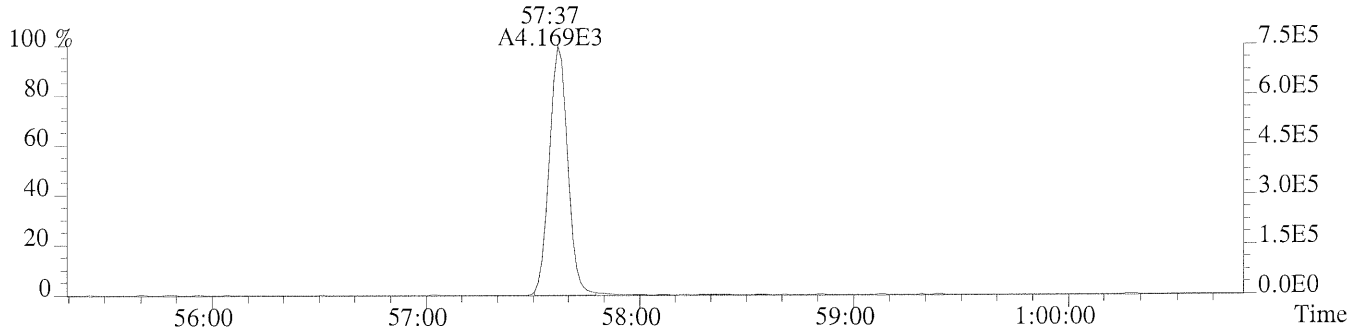
File:U142056 #1-310 Acq: 7-NOV-2011 10:45:16 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-01 MB
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,936.0,1.00%,F,T)



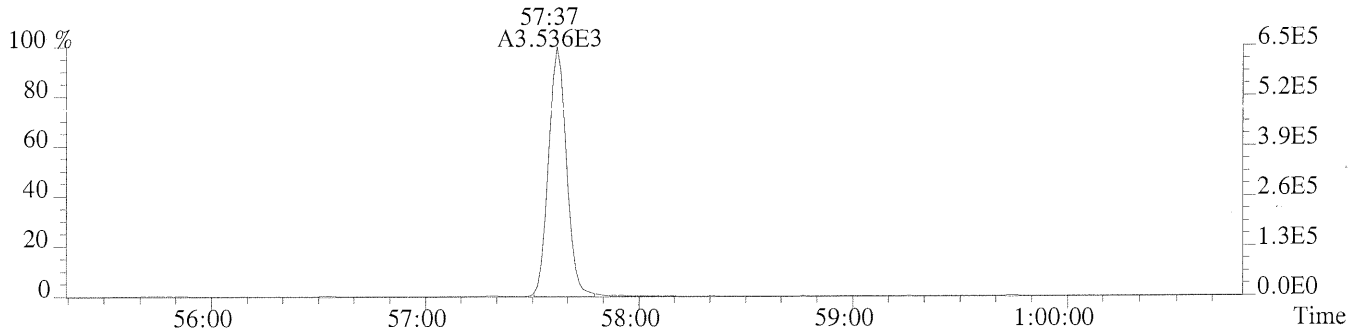
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



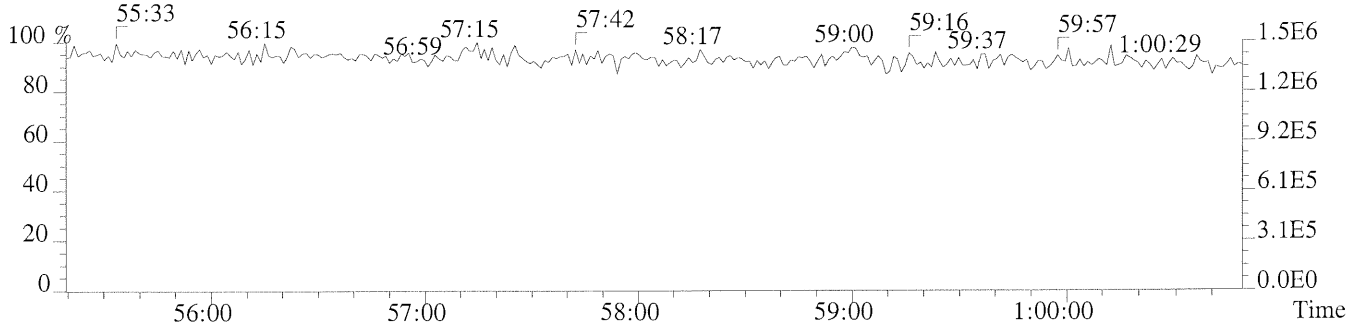
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,592.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
LCS

Run #8 Filename U142054 Samp: 1 Inj: 1 Acquired: 7-NOV-11 07:54:05
Processed: 11-NOV-11 09:52:02 Sample ID: EQ1100494-02

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1	1	2-MoCB	13:22	2.261e+04	7.203e+03	3.14	yes	no
2	3	4-MoCB	15:39	2.458e+04	7.938e+03	3.10	yes	no
3	4	22'-DiCB	15:54	1.364e+04	8.050e+03	1.69	yes	no
4	15	44'-DiCB	22:08	1.584e+04	1.003e+04	1.58	yes	no
5	19	22'6'-TrCB	19:13	7.633e+03	7.409e+03	1.03	yes	no
6	37	344'-TrCB	29:03	1.337e+04	1.327e+04	1.01	yes	no
7	54	22'66'-TeCB	22:23	6.861e+03	9.085e+03	0.76	yes	no
8	81	344'5-TeCB	35:51	1.086e+04	1.395e+04	0.78	yes	no
9	77	33'44'-TeCB	36:25	1.009e+04	1.320e+04	0.76	yes	no
10	104	22'466'-PeCB	27:49	1.383e+04	8.883e+03	1.56	yes	no
11	123	2'344'5-PeCB	38:24	1.200e+04	7.715e+03	1.55	yes	no
12	118	23'44'5-PeCB	38:44	1.192e+04	7.612e+03	1.57	yes	no
13	114	2344'5-PeCB	39:15	1.258e+04	8.077e+03	1.56	yes	no
14	105	233'44'-PeCB	39:54	1.242e+04	8.190e+03	1.52	yes	no
15	126	33'44'5-PeCB	43:01	1.247e+04	8.050e+03	1.55	yes	no
16	155	22'44'66'-HxCB	33:30	1.219e+04	1.000e+04	1.22	yes	no
17	167	23'44'55'-HxCB	44:52	7.945e+03	6.405e+03	1.24	yes	no
18	156/7	233'44'5-HxCB	46:01	1.558e+04	1.262e+04	1.23	yes	no
19	169	33'44'55'-HxCB	49:16	7.760e+03	6.210e+03	1.25	yes	no
20	188	22'34'566'-HpCB	39:14	1.210e+04	1.156e+04	1.05	yes	no
21	189	233'44'55'-HpCB	51:48	6.557e+03	6.334e+03	1.04	yes	no
22	202	22'33'55'66'-OcCB	44:37	6.985e+03	7.851e+03	0.89	yes	no
23	205	233'44'55'6-OcCB	54:20	5.527e+03	6.231e+03	0.89	yes	no
24	208	22'33'4'55'66'-NoCB	51:17	5.209e+03	6.793e+03	0.77	yes	no
25	206	22'33'44'55'6-NoCB	56:04	3.791e+03	5.020e+03	0.76	yes	no
26	209	DeCB	57:40	7.003e+03	5.871e+03	1.19	yes	no
27	1L	13C-2-MoCB	13:21	3.598e+04	1.183e+04	3.04	yes	no
28	3L	13C-4-MoCB	15:39	4.029e+04	1.318e+04	3.06	yes	no
29	4L	13C-22'-DiCB	15:54	2.004e+04	1.325e+04	1.51	yes	no
30	15L	13C-44'-DiCB	22:07	2.748e+04	1.716e+04	1.60	yes	no
31	19L	13C-22'6'-TrCB	19:13	1.217e+04	1.168e+04	1.04	yes	no
32	37L	13C-344'-TrCB	29:02	2.339e+04	2.203e+04	1.06	yes	no
33	54L	13C-22'66'-TeCB	22:22	1.163e+04	1.451e+04	0.80	yes	no
34	81L	13C-344'5-TeCB	35:50	1.675e+04	2.109e+04	0.79	yes	no
35	77L	13C-33'44'-TeCB	36:23	1.739e+04	2.223e+04	0.78	yes	no
36	104L	13C-22'466'-PeCB	27:47	2.358e+04	1.555e+04	1.52	yes	no
37	123L	13C-2'344'5-PeCB	38:22	2.018e+04	1.278e+04	1.58	yes	no
38	118L	13C-23'44'5-PeCB	38:42	2.099e+04	1.308e+04	1.60	yes	no
39	114L	13C-2344'5-PeCB	39:14	2.178e+04	1.330e+04	1.64	yes	no
40	105L	13C-233'44'-PeCB	39:52	2.064e+04	1.299e+04	1.59	yes	no
41	126L	13C-33'44'5-PeCB	42:59	1.956e+04	1.230e+04	1.59	yes	no
42	155L	13C-22'44'66'-HxCB	33:28	2.184e+04	1.761e+04	1.24	yes	no
43	167L	13C-23'44'55'-HxCB	44:51	1.351e+04	1.080e+04	1.25	yes	no
44	156/7	13C-233'44'5'-HxCB	46:00	2.650e+04	2.108e+04	1.26	yes	no
45	169L	13C-33'44'55'-HxCB	49:15	1.326e+04	1.046e+04	1.27	yes	no
46	188L	13C-22'34'566'-HpCB	39:13	2.021e+04	1.928e+04	1.05	yes	no
47	189L	13C-233'44'55'-HpCB	51:46	1.181e+04	1.140e+04	1.04	yes	no
48	202L	13C-22'33'55'66'-OcCB	44:36	1.315e+04	1.475e+04	0.89	yes	no
49	205L	13C-233'44'55'6-OcCB	54:19	8.990e+03	9.944e+03	0.90	yes	no
50	208L	13C-22'33'4'55'66'-NoCB	51:16	9.647e+03	1.216e+04	0.79	yes	no
51	206L	13C-22'33'44'55'6-NoCB	56:03	7.007e+03	9.177e+03	0.76	yes	no
52	209L	13C-DeCB	57:38	1.045e+04	8.771e+03	1.19	yes	no

53	28L	13C-244'-TrCB	25:00	2.561e+04	2.409e+04	1.06	yes	no
54	111L	13C-233'55'-PeCB	36:26	2.532e+04	1.624e+04	1.56	yes	no
55	178L	13C-22'33'55'6-HpCB	42:17	1.244e+04	1.203e+04	1.03	yes	no
56	9L	13C-2,5-DiCB	17:59	4.719e+04	2.988e+04	1.58	yes	no
57	52L	13C-22'55'-TeCB	26:50	2.777e+04	3.561e+04	0.78	yes	no
58	101L	13C-22'4'55'-PeCB	33:43	3.372e+04	2.139e+04	1.58	yes	no
59	138L	13C-22'3'44'5'-HxCB	41:50	2.532e+04	2.016e+04	1.26	yes	no
60	194L	13C-22'33'44'55'-OcCB	53:50	1.251e+04	1.370e+04	0.91	yes	no

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
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Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
LCS

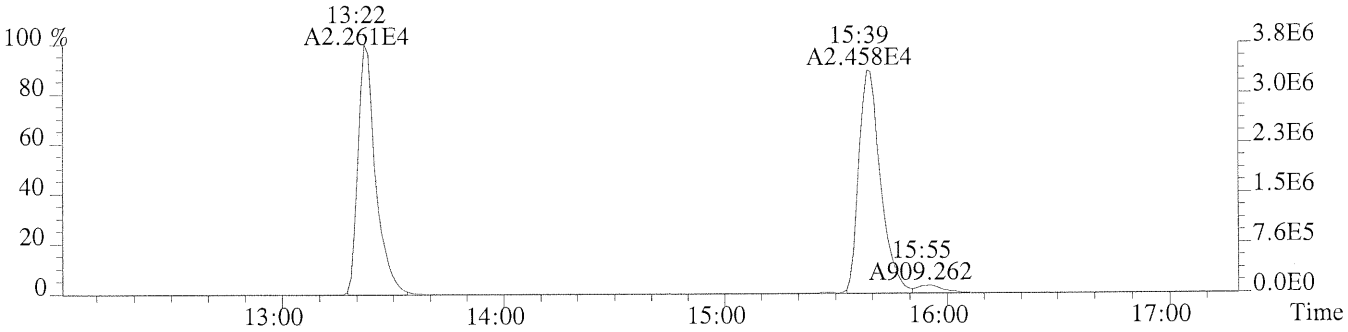
Run #8 Filename U142054 Samp: 1 Inj: 1 Acquired: 7-NOV-11 07:54:05
Processed: 11-NOV-11 09:52:021 LAB. ID: EQ1100494-02

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	3.80e+06	2.07e+03	1.8e+03	1.21e+06	1.28e+03	9.5e+02
2	4-MoCB	3.39e+06	2.07e+03	1.6e+03	1.10e+06	1.28e+03	8.6e+02
3	22'-DiCB	1.62e+06	5.76e+03	2.8e+02	1.04e+06	8.82e+04	1.2e+01
4	44'-DiCB	3.90e+06	6.04e+03	6.5e+02	2.53e+06	9.71e+04	2.6e+01
5	22'6'-TrCB	9.03e+05	3.98e+03	2.3e+02	8.65e+05	9.60e+02	9.0e+02
6	344'-TrCB	2.11e+06	2.44e+03	8.6e+02	2.09e+06	1.18e+03	1.8e+03
7	22'66'-TeCB	1.37e+06	1.22e+03	1.1e+03	1.80e+06	1.29e+03	1.4e+03
8	344'5-TeCB	1.81e+06	1.17e+03	1.5e+03	2.36e+06	1.64e+03	1.4e+03
9	33'44'-TeCB	1.66e+06	1.17e+03	1.4e+03	2.17e+06	1.64e+03	1.3e+03
10	22'466'-PeCB	2.26e+06	1.18e+03	1.9e+03	1.43e+06	1.14e+03	1.3e+03
11	2'344'5-PeCB	2.01e+06	1.27e+03	1.6e+03	1.27e+06	1.70e+03	7.4e+02
12	23'44'5-PeCB	1.92e+06	1.27e+03	1.5e+03	1.22e+06	1.70e+03	7.2e+02
13	2344'5-PeCB	2.10e+06	1.27e+03	1.7e+03	1.35e+06	1.70e+03	7.9e+02
14	233'44'-PeCB	2.07e+06	1.27e+03	1.6e+03	1.38e+06	1.70e+03	8.1e+02
15	33'44'5-PeCB	2.03e+06	1.27e+03	1.6e+03	1.29e+06	1.70e+03	7.5e+02
16	22'44'66'-HxCB	1.94e+06	8.92e+02	2.2e+03	1.61e+06	1.32e+03	1.2e+03
17	23'44'55'-HxCB	1.60e+06	8.88e+02	1.8e+03	1.29e+06	7.44e+02	1.7e+03
18	233'44'5-HxCB	2.47e+06	8.88e+02	2.8e+03	2.03e+06	7.44e+02	2.7e+03
19	33'44'55'-HxCB	1.59e+06	8.88e+02	1.8e+03	1.25e+06	7.44e+02	1.7e+03
20	22'34'566'-HpCB	2.06e+06	7.56e+02	2.7e+03	1.97e+06	7.76e+02	2.5e+03
21	233'44'55'-HpCB	1.31e+06	6.28e+02	2.1e+03	1.29e+06	6.60e+02	2.0e+03
22	22'33'55'66'-OcCB	1.45e+06	8.72e+02	1.7e+03	1.63e+06	8.60e+02	1.9e+03
23	233'44'55'6-OcCB	1.13e+06	8.72e+02	1.3e+03	1.27e+06	8.60e+02	1.5e+03
24	22'33'4'55'66'-NoCB	1.04e+06	1.40e+03	7.4e+02	1.35e+06	1.16e+03	1.2e+03
25	22'33'44'55'6-NoCB	6.83e+05	3.04e+03	2.3e+02	9.05e+05	2.94e+03	3.1e+02
26	DeCB	1.23e+06	9.12e+02	1.4e+03	1.03e+06	7.04e+02	1.5e+03
27	13C-2-MoCB	6.13e+06	2.01e+03	3.1e+03	2.03e+06	1.13e+04	1.8e+02
28	13C-4-MoCB	5.67e+06	2.01e+03	2.8e+03	1.85e+06	1.13e+04	1.6e+02
29	13C-22'-DiCB	2.43e+06	1.16e+03	2.1e+03	1.60e+06	1.10e+03	1.5e+03
30	13C-44'-DiCB	6.73e+06	1.49e+03	4.5e+03	4.22e+06	1.60e+03	2.6e+03
31	13C-22'6'-TrCB	1.52e+06	6.12e+04	2.5e+01	1.44e+06	6.59e+04	2.2e+01
32	13C-344'-TrCB	3.69e+06	1.84e+04	2.0e+02	3.47e+06	3.06e+04	1.1e+02
33	13C-22'66'-TeCB	2.46e+06	4.69e+03	5.2e+02	3.08e+06	1.58e+03	2.0e+03
34	13C-344'5-TeCB	2.76e+06	4.16e+03	6.6e+02	3.47e+06	1.44e+03	2.4e+03
35	13C-33'44'-TeCB	2.80e+06	4.16e+03	6.7e+02	3.57e+06	1.44e+03	2.5e+03
36	13C-22'466'-PeCB	3.86e+06	8.60e+02	4.5e+03	2.56e+06	1.04e+03	2.5e+03
37	13C-2'344'5-PeCB	3.45e+06	3.73e+03	9.3e+02	2.17e+06	9.92e+02	2.2e+03
38	13C-23'44'5-PeCB	3.53e+06	3.73e+03	9.5e+02	2.19e+06	9.92e+02	2.2e+03
39	13C-2344'5-PeCB	3.65e+06	3.73e+03	9.8e+02	2.23e+06	9.92e+02	2.2e+03
40	13C-233'44'-PeCB	3.38e+06	3.73e+03	9.1e+02	2.11e+06	9.92e+02	2.1e+03
41	13C-33'44'5-PeCB	3.26e+06	3.73e+03	8.7e+02	2.03e+06	9.92e+02	2.0e+03
42	13C-22'44'66'-HxCB	3.33e+06	8.84e+02	3.8e+03	2.72e+06	8.48e+02	3.2e+03
43	13C-23'44'55'-HxCB	2.81e+06	9.40e+02	3.0e+03	2.27e+06	1.11e+03	2.0e+03
44	13C-233'44'5'-HxCB	4.25e+06	9.40e+02	4.5e+03	3.34e+06	1.11e+03	3.0e+03
45	13C-33'44'55'-HxCB	2.71e+06	9.40e+02	2.9e+03	2.14e+06	1.11e+03	1.9e+03
46	13C-22'34'566'-HpCB	3.36e+06	8.36e+02	4.0e+03	3.19e+06	8.24e+02	3.9e+03
47	13C-233'44'55'-HpCB	2.32e+06	9.88e+02	2.4e+03	2.23e+06	8.20e+02	2.7e+03
48	13C-22'33'55'66'-OcCB	2.70e+06	7.16e+02	3.8e+03	3.04e+06	8.44e+02	3.6e+03
49	13C-233'44'55'6-OcCB	1.83e+06	7.16e+02	2.6e+03	2.02e+06	8.44e+02	2.4e+03
50	13C-22'33'4'55'66'-NoCB	1.95e+06	9.16e+02	2.1e+03	2.43e+06	6.84e+02	3.6e+03
51	13C-22'33'44'55'6-NoCB	1.26e+06	1.44e+03	8.7e+02	1.63e+06	1.32e+03	1.2e+03
52	13C-DeCB	1.81e+06	7.84e+02	2.3e+03	1.55e+06	8.36e+02	1.9e+03

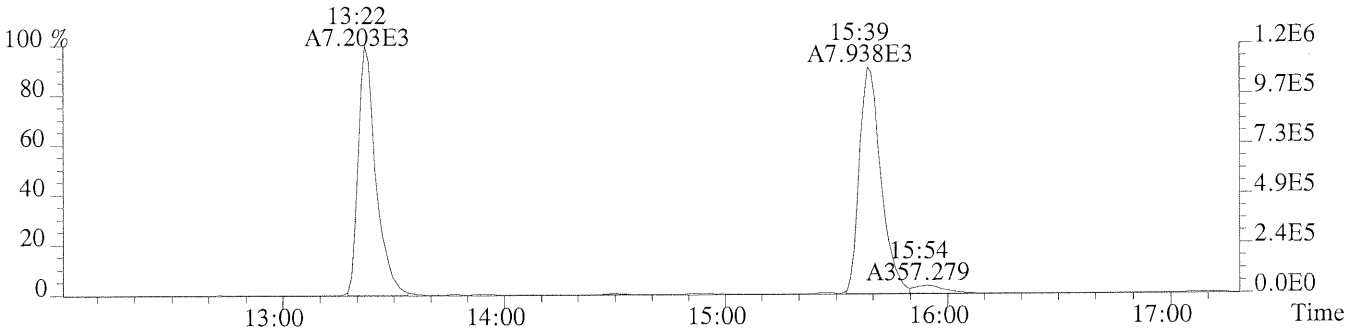
13C-244'-TrCB	4.32e+06	1.84e+04	2.3e+02	4.08e+06	3.06e+04	1.3e+02
13C-233'55'-PeCB	4.23e+06	6.12e+02	6.9e+03	2.69e+06	1.01e+03	2.7e+03
13C-22'33'55'6-HpCB	2.08e+06	8.36e+02	2.5e+03	2.04e+06	8.24e+02	2.5e+03
13C-2,5-DiCB	6.00e+06	1.49e+03	4.0e+03	3.80e+06	1.60e+03	2.4e+03
13C-22'55'-TeCB	4.62e+06	3.24e+03	1.4e+03	5.87e+06	1.57e+03	3.7e+03
13C-22'4'55'-PeCB	5.32e+06	6.12e+02	8.7e+03	3.39e+06	1.01e+03	3.4e+03
13C-22'3'44'5'-HxCB	4.05e+06	7.48e+02	5.4e+03	3.22e+06	9.00e+02	3.6e+03
13C-22'33'44'55'-OcCB	2.52e+06	7.16e+02	3.5e+03	2.76e+06	8.44e+02	3.3e+03

File:U142054 #1-341 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

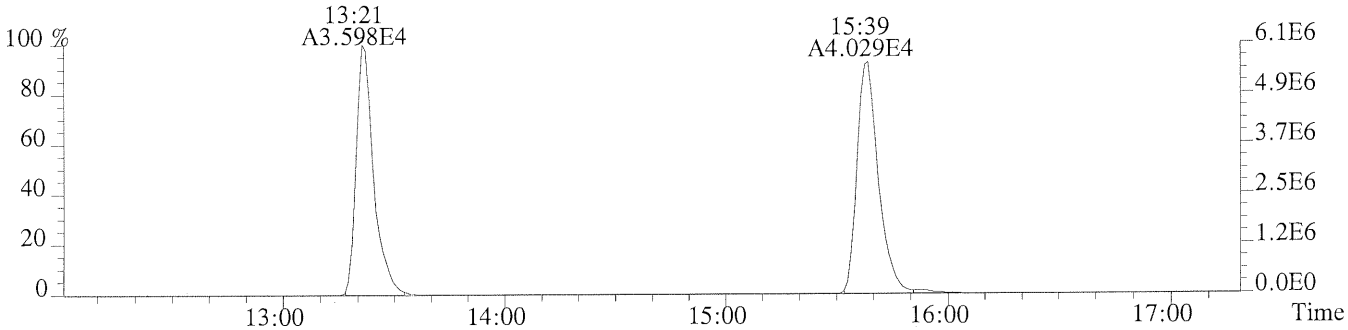
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2068.0,1.00%,F,T)



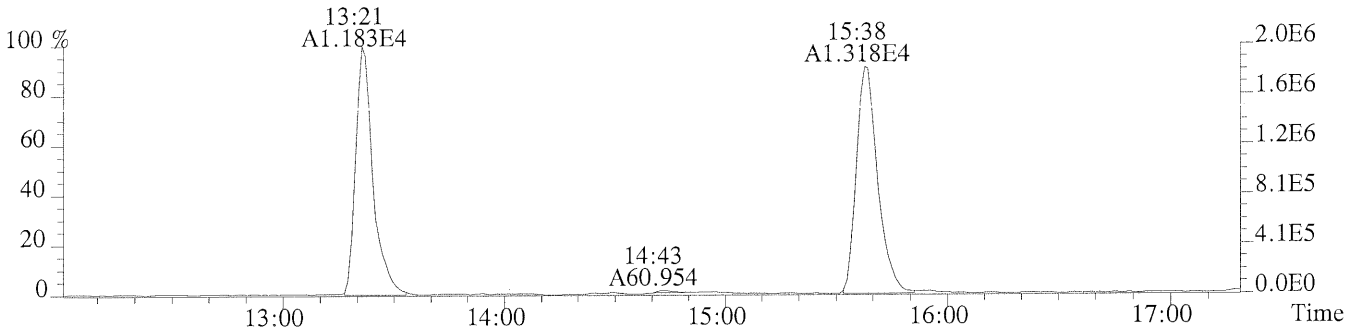
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1276.0,1.00%,F,T)



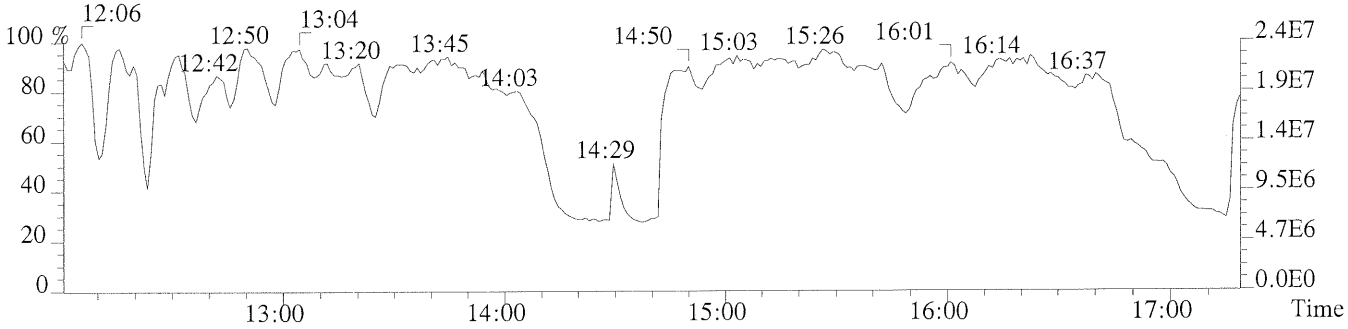
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2008.0,1.00%,F,T)



202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11328.0,1.00%,F,T)

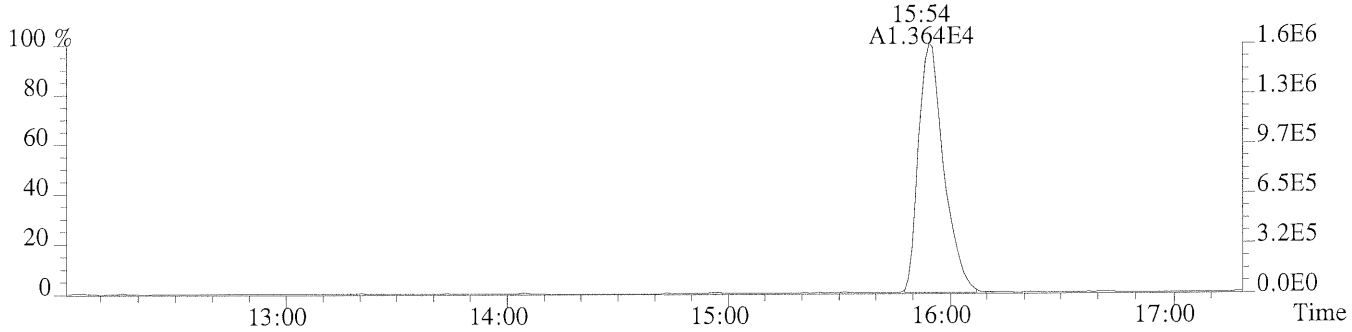


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

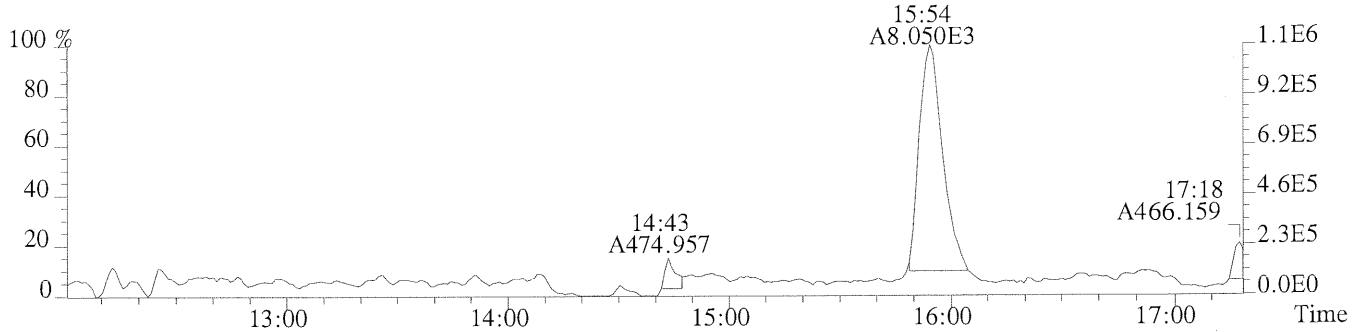


File:U142054 #1-341 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

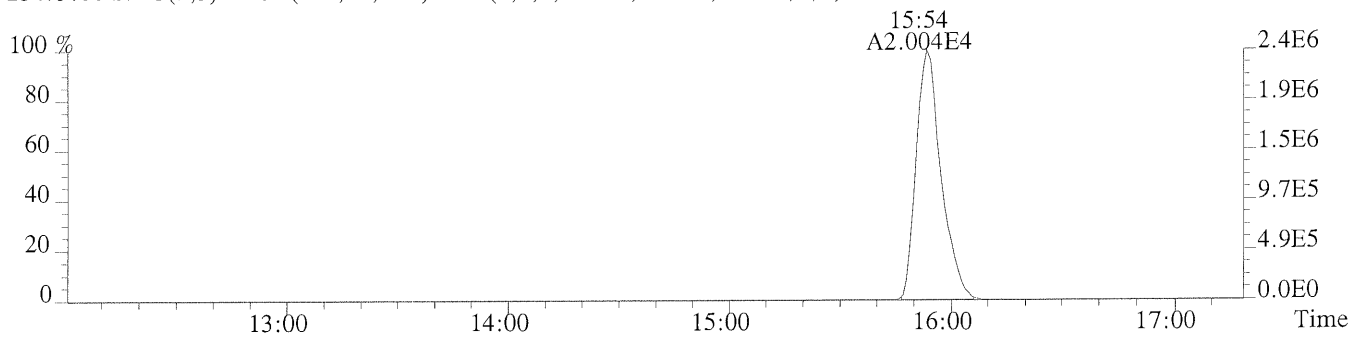
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5756.0,1.00%,F,T)



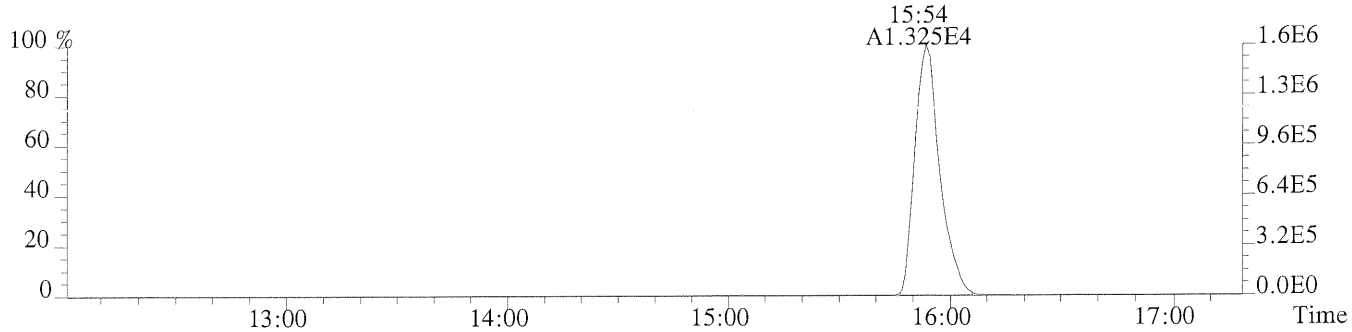
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,88168.0,1.00%,F,T)



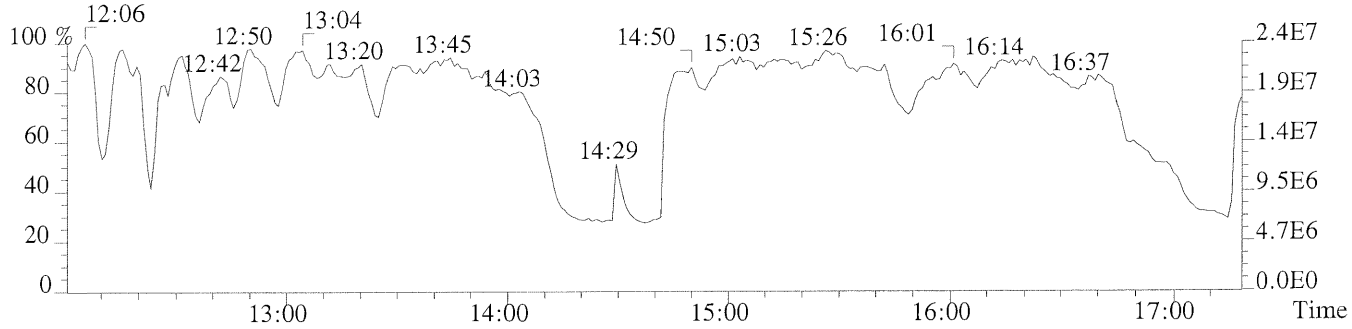
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1164.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1096.0,1.00%,F,T)

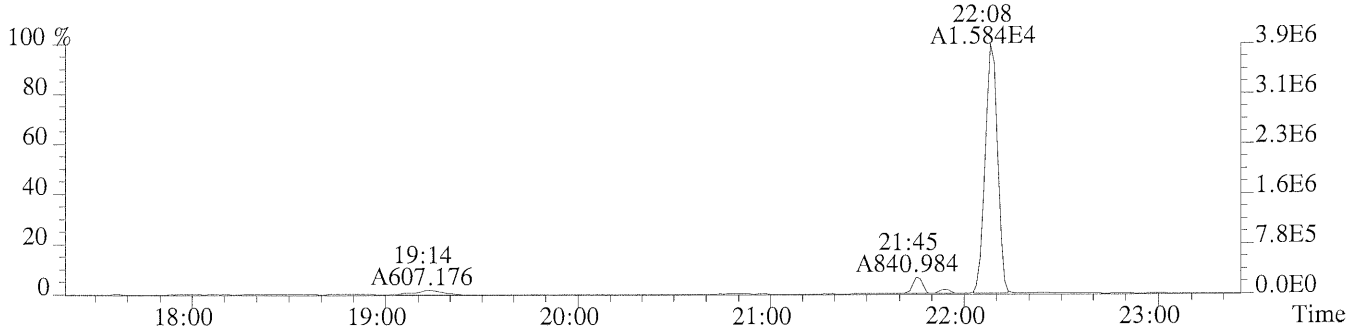


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

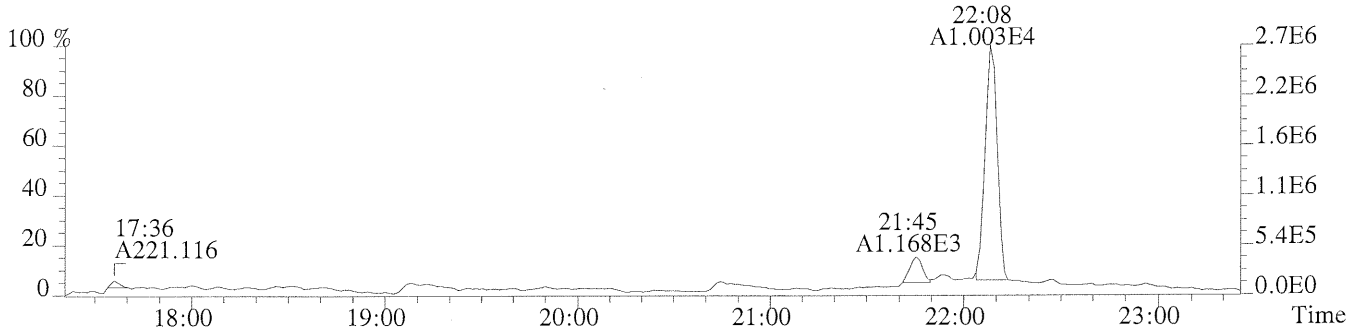


File:U142054 #1-336 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

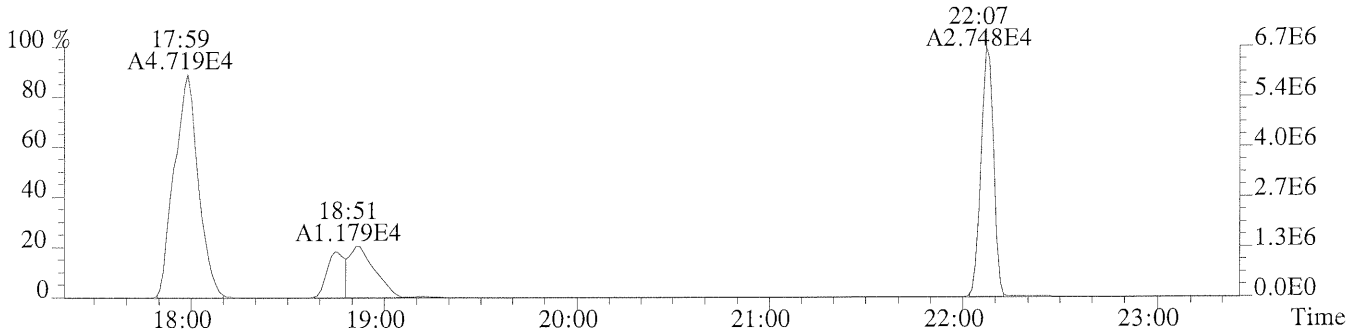
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6040.0,1.00%,F,T)



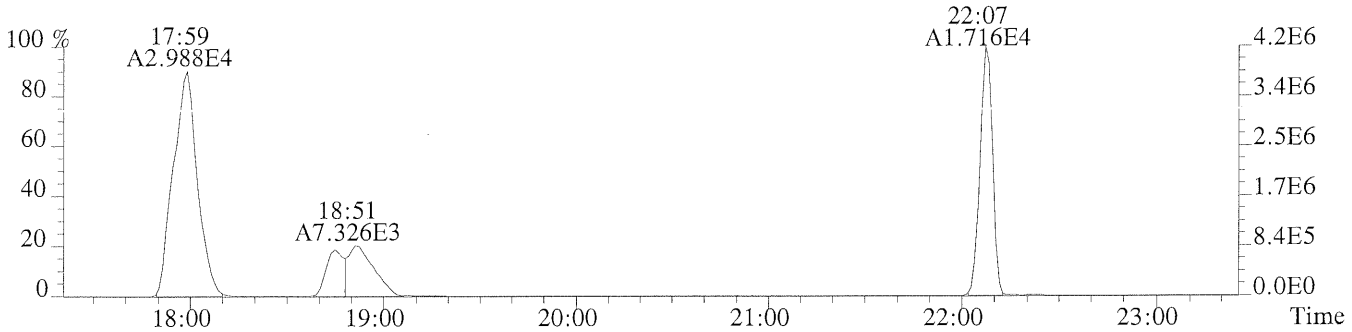
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,97116.0,1.00%,F,T)



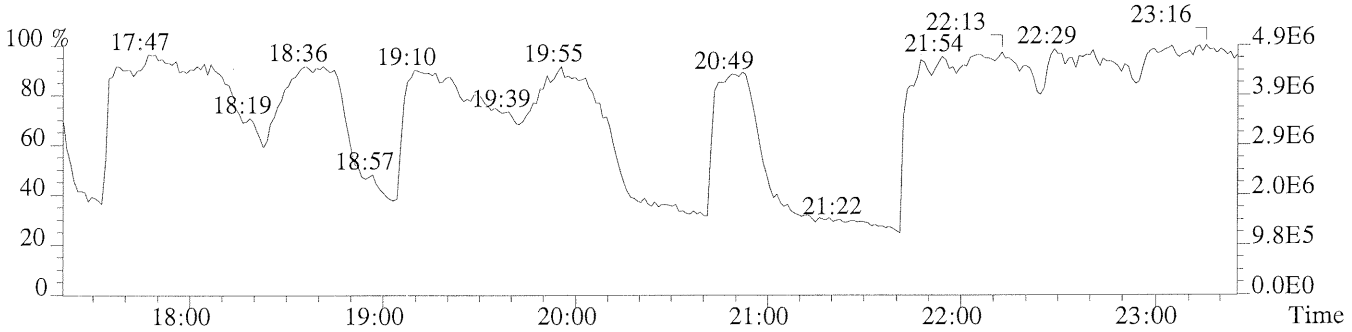
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1600.0,1.00%,F,T)

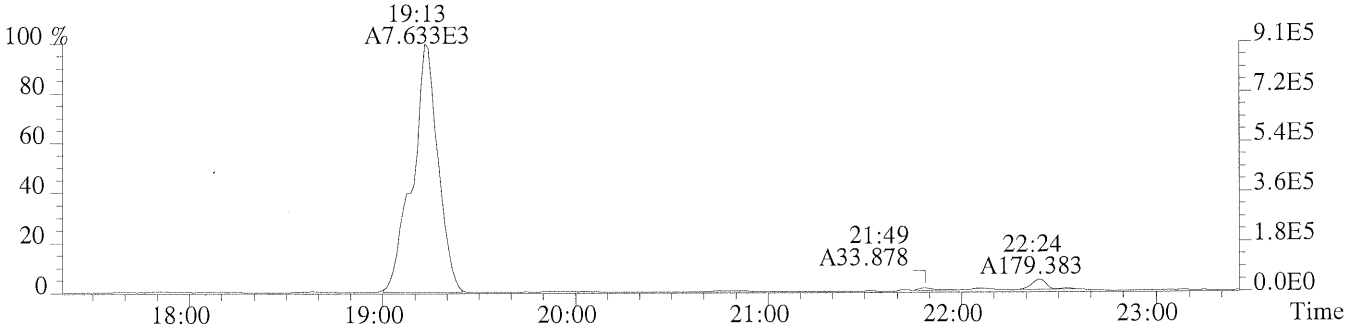


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

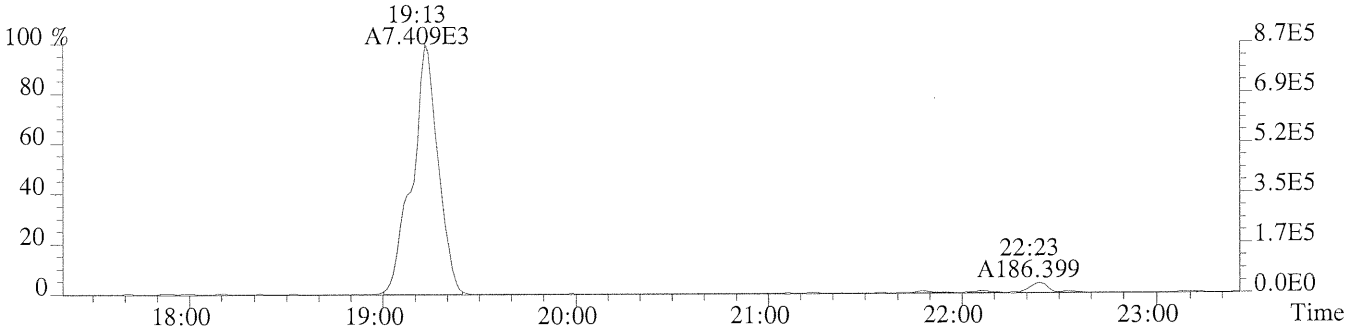


File:U142054 #1-336 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

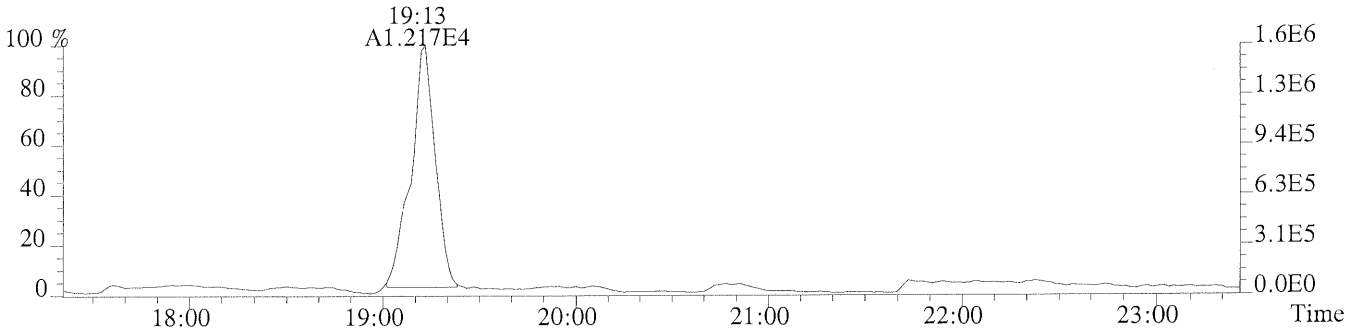
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3976.0,1.00%,F,T)



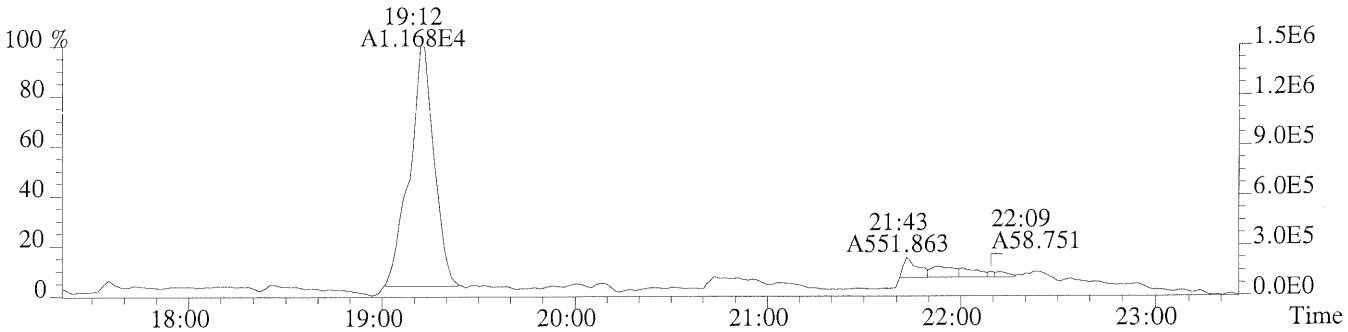
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



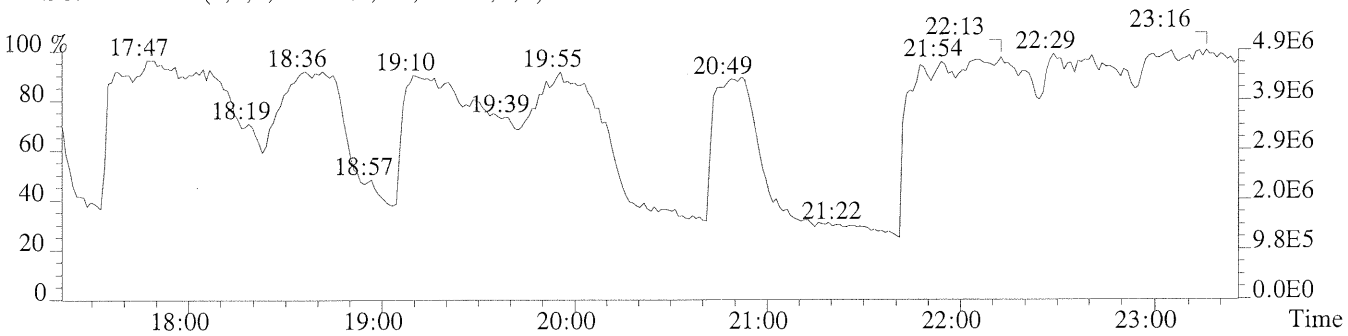
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,61244.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,65896.0,1.00%,F,T)

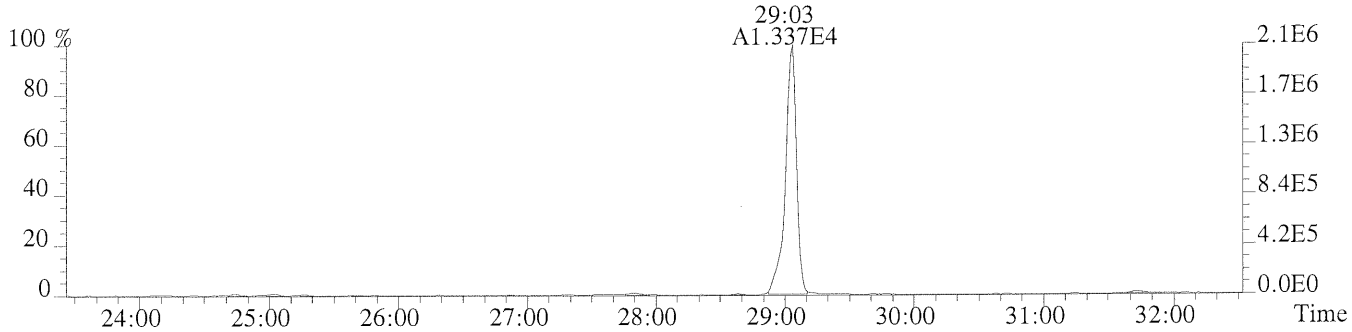


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

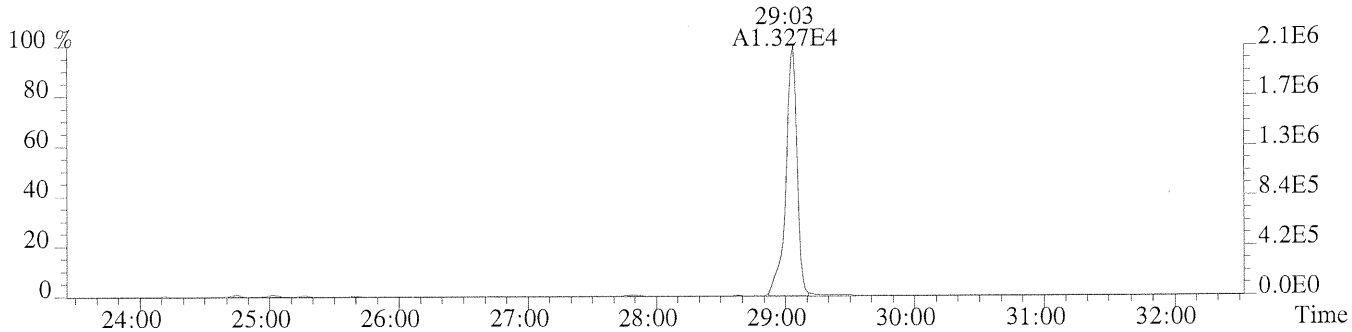


File:U142054 #1-582 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

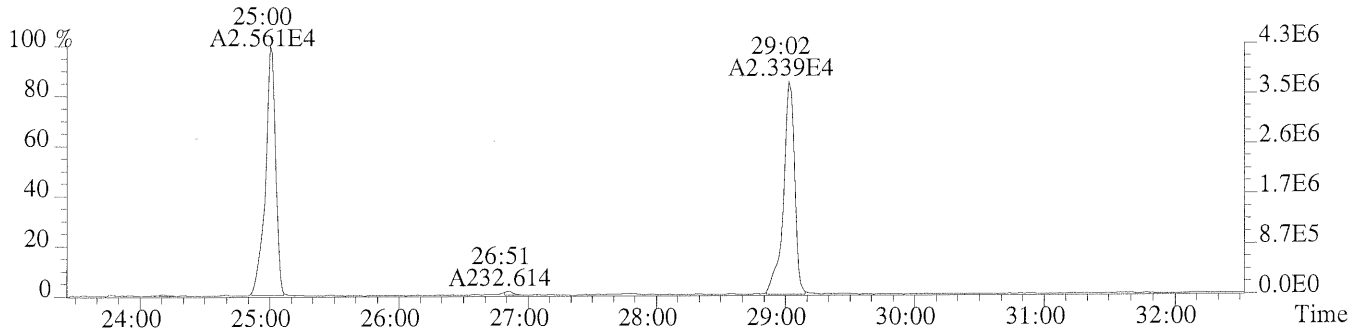
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2444.0,1.00%,F,T)



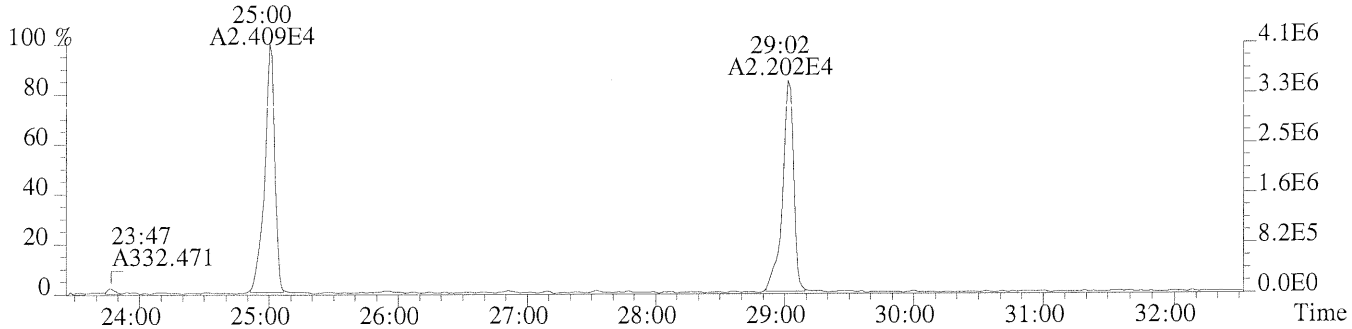
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1180.0,1.00%,F,T)



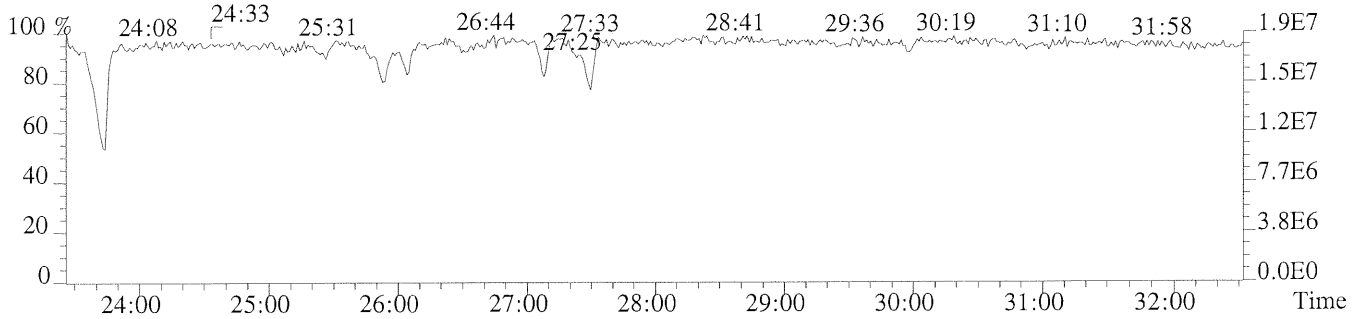
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18448.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,30624.0,1.00%,F,T)

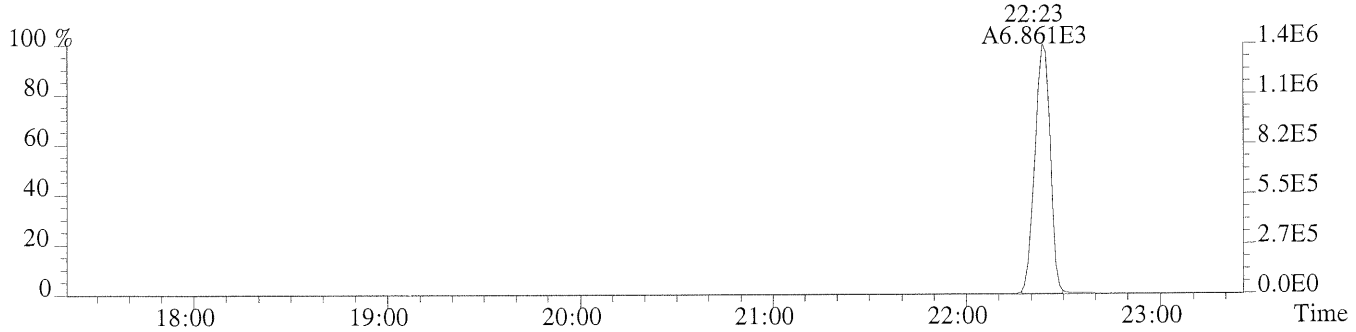


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

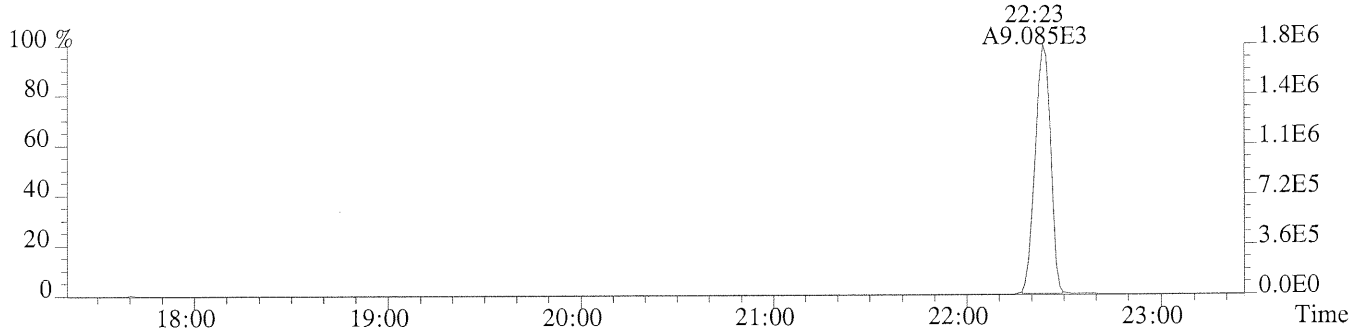


File:U142054 #1-336 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

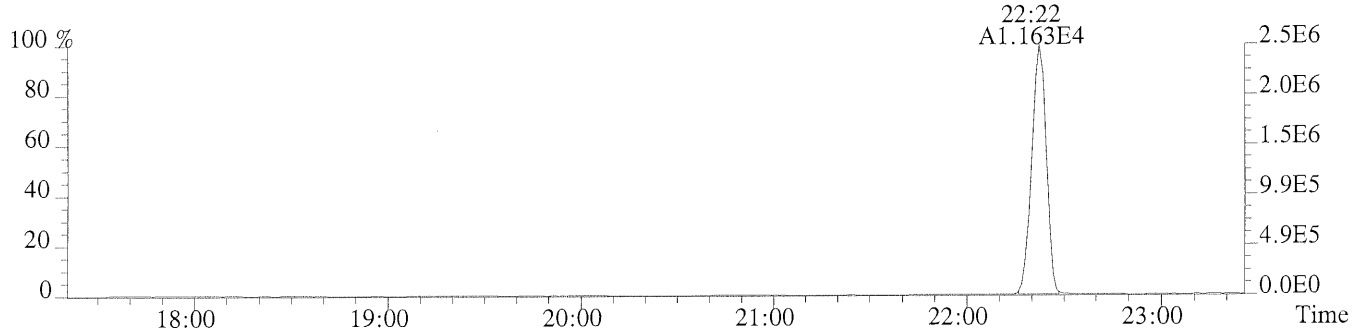
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)



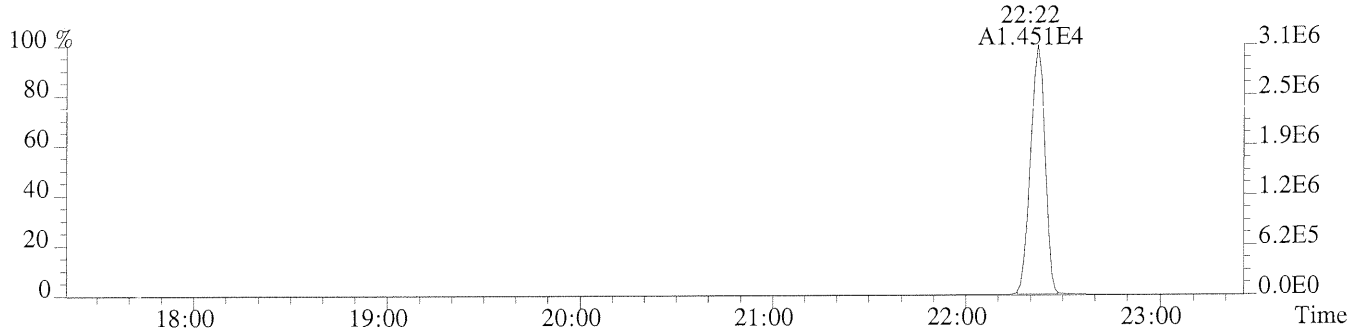
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1292.0,1.00%,F,T)



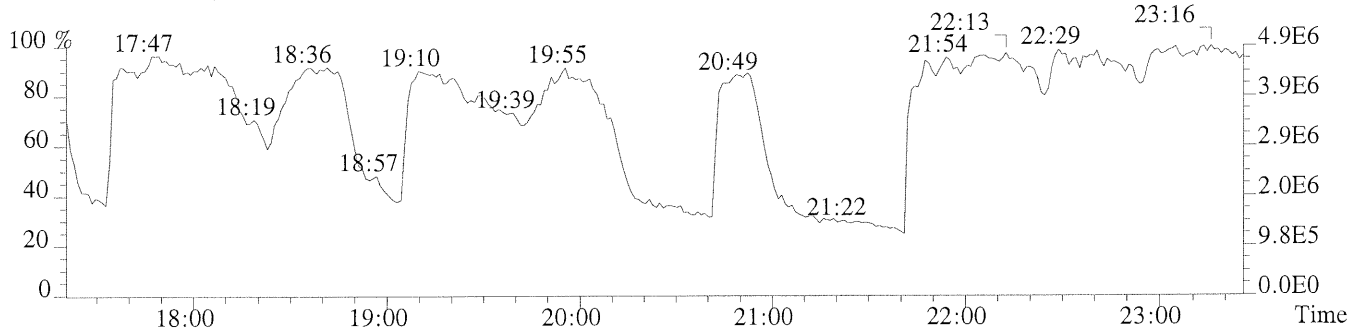
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4692.0,1.00%,F,T)



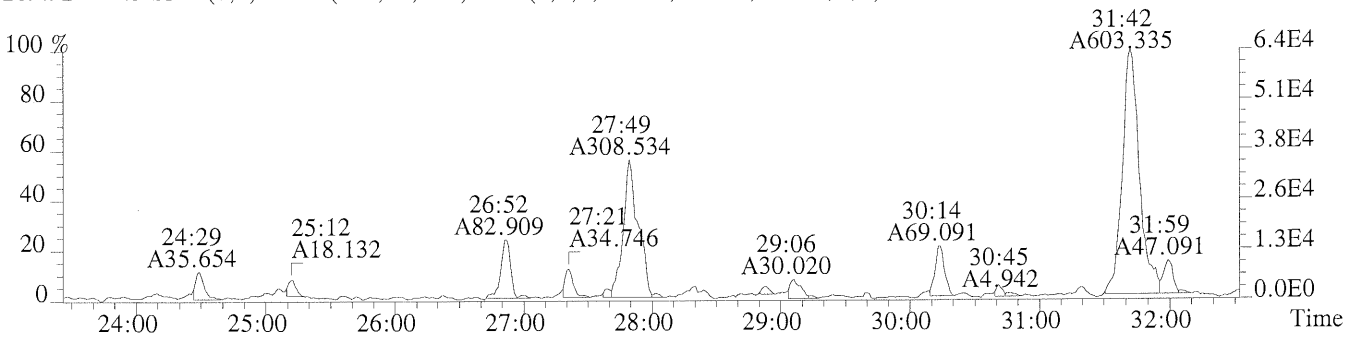
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1580.0,1.00%,F,T)



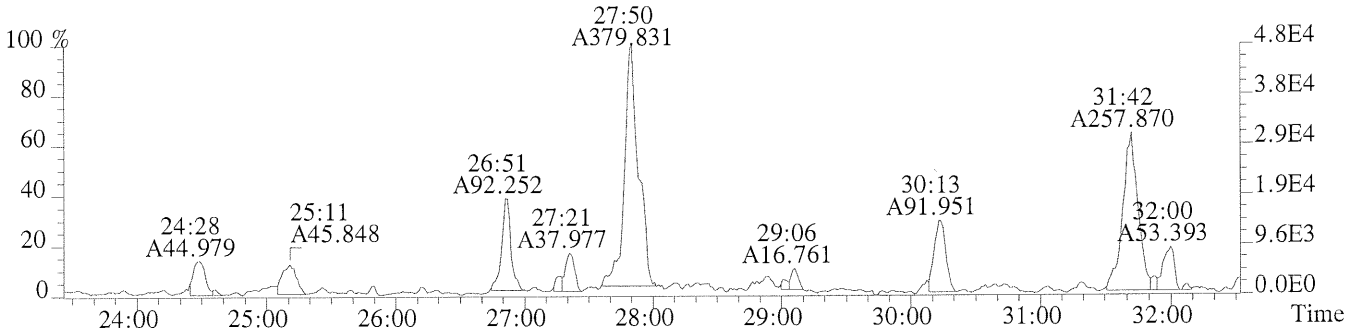
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



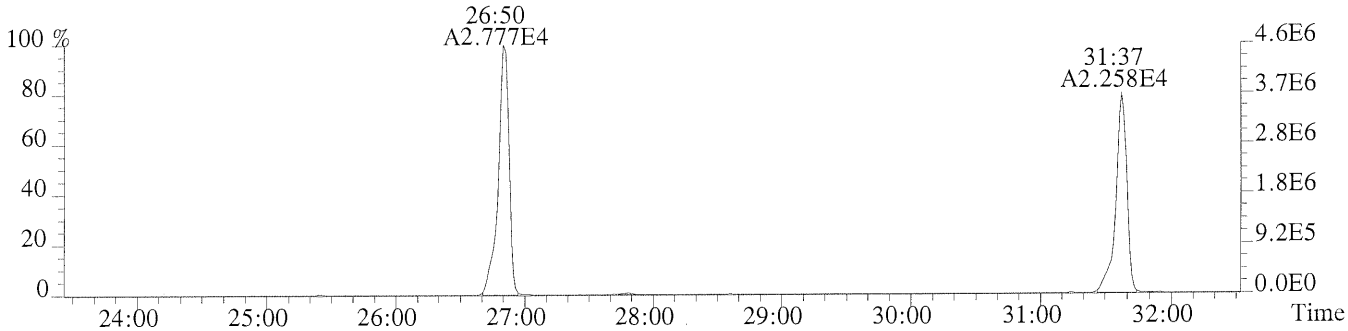
File:U142054 #1-582 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1240.0,1.00%,F,T)



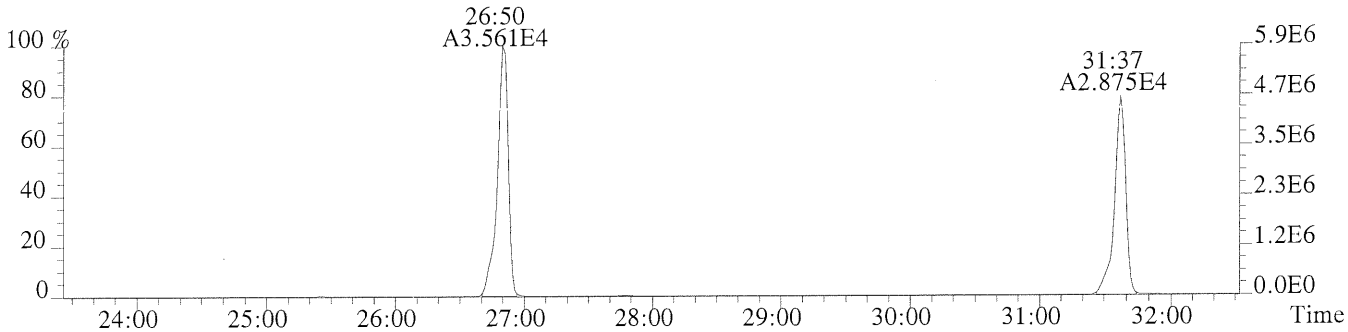
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



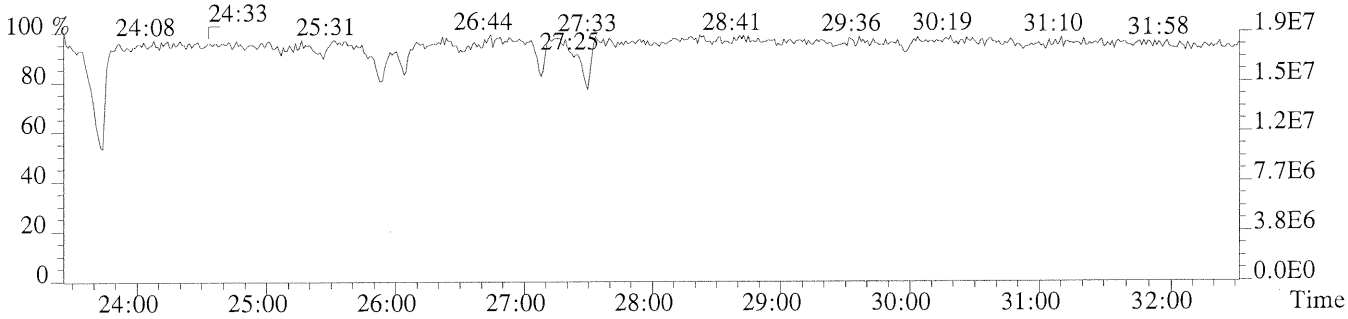
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3240.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1568.0,1.00%,F,T)

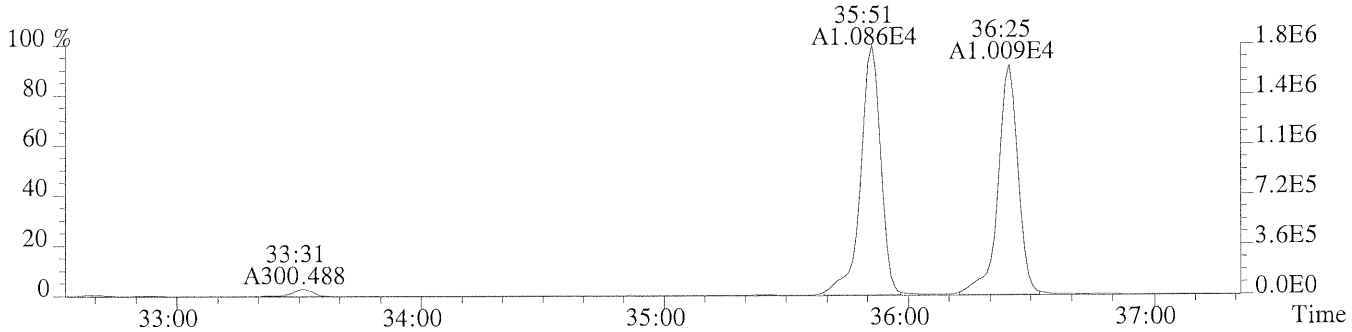


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

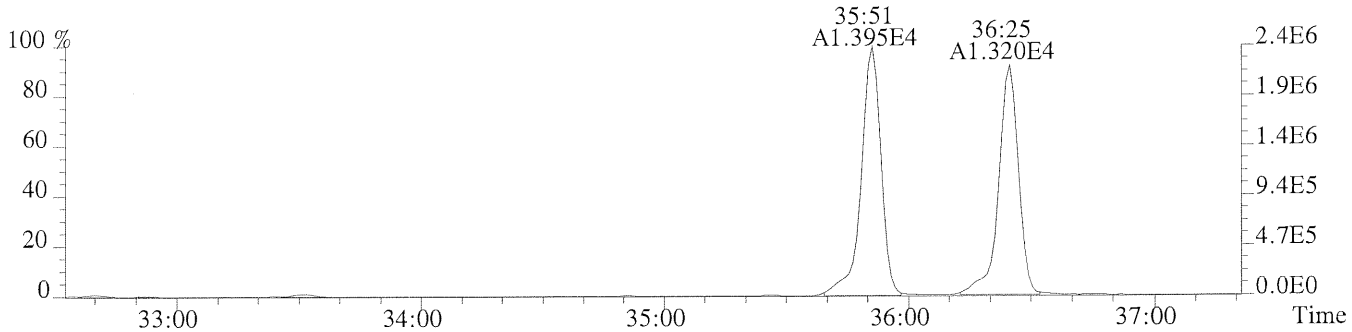


File:U142054 #1-308 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

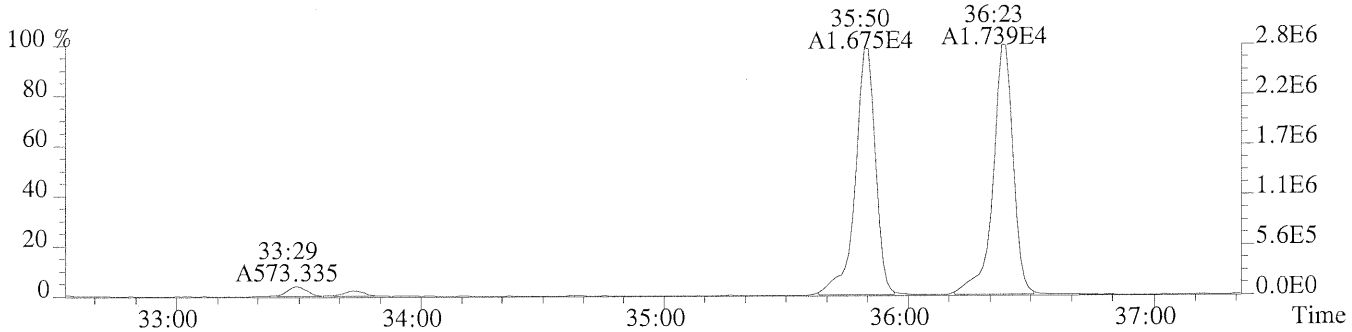
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1172.0,1.00%,F,T)



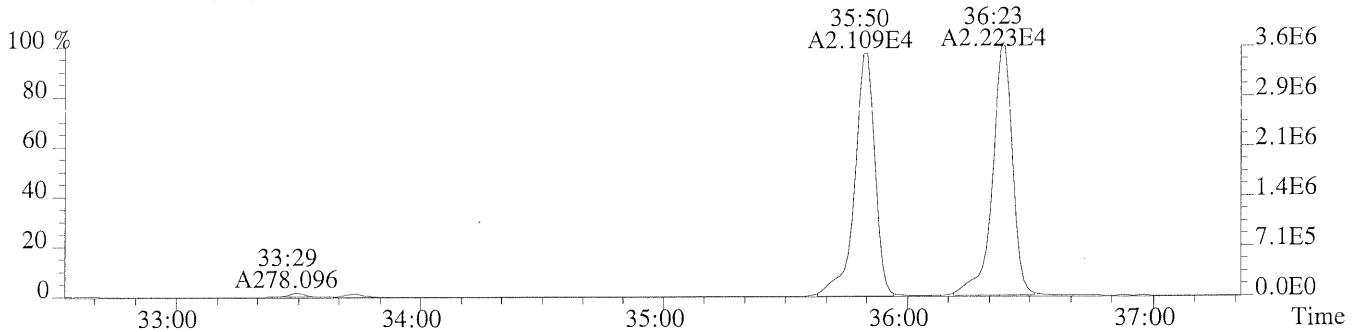
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1644.0,1.00%,F,T)



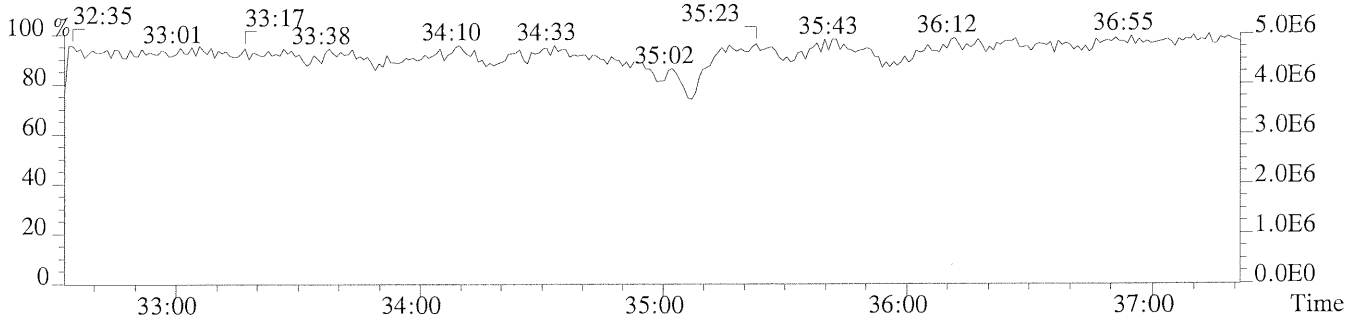
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4164.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1440.0,1.00%,F,T)

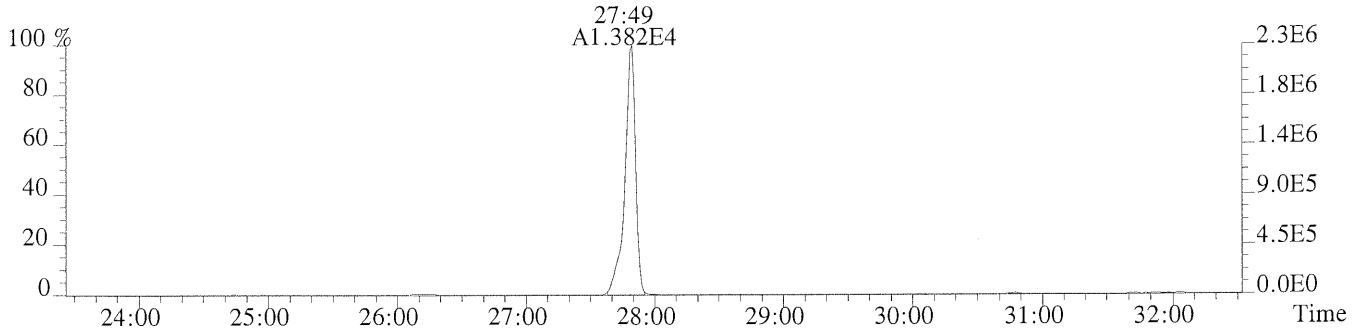


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

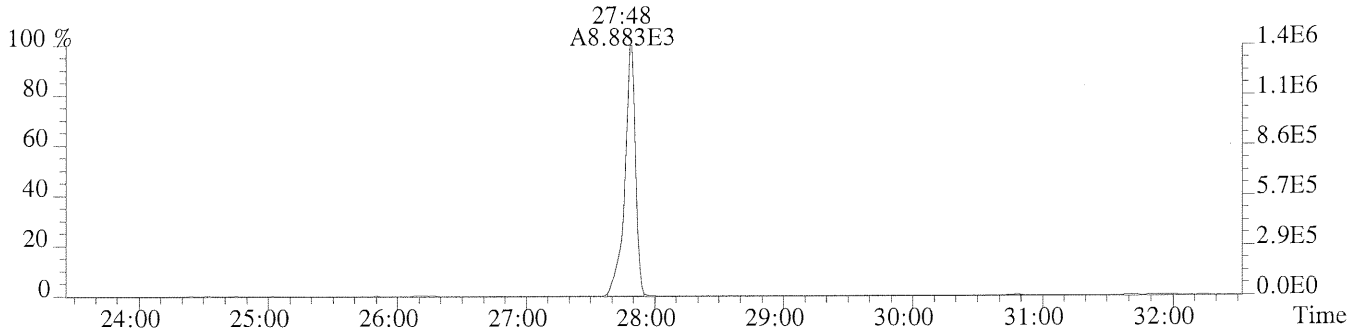


File:U142054 #1-582 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

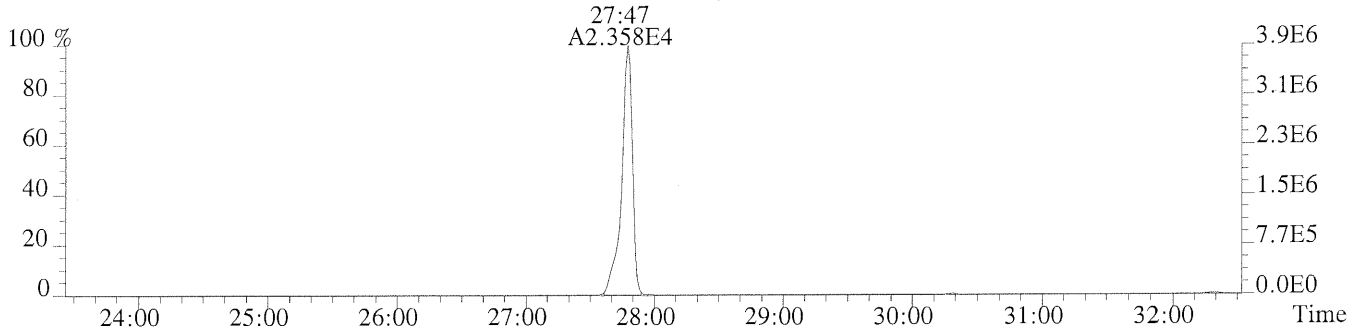
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)



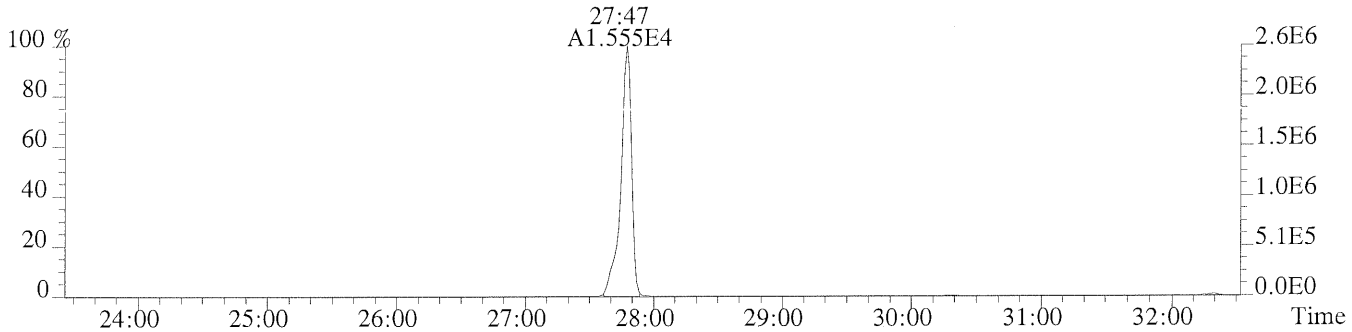
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1144.0,1.00%,F,T)



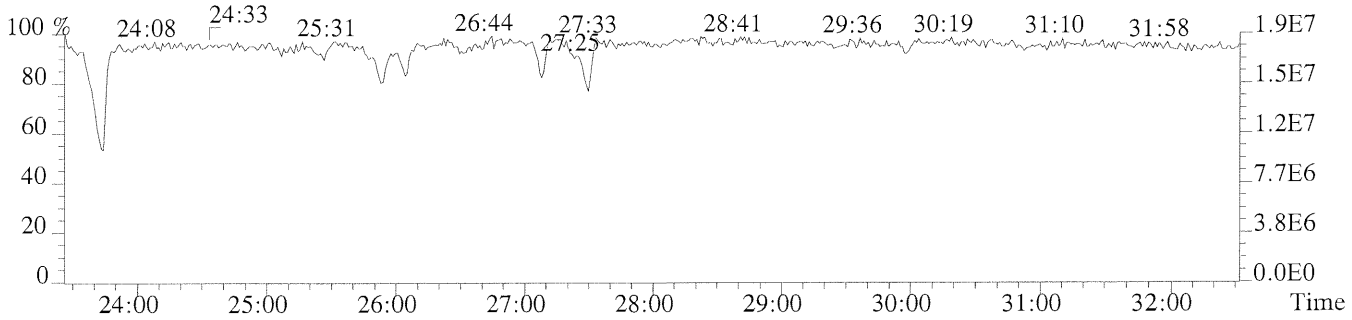
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)

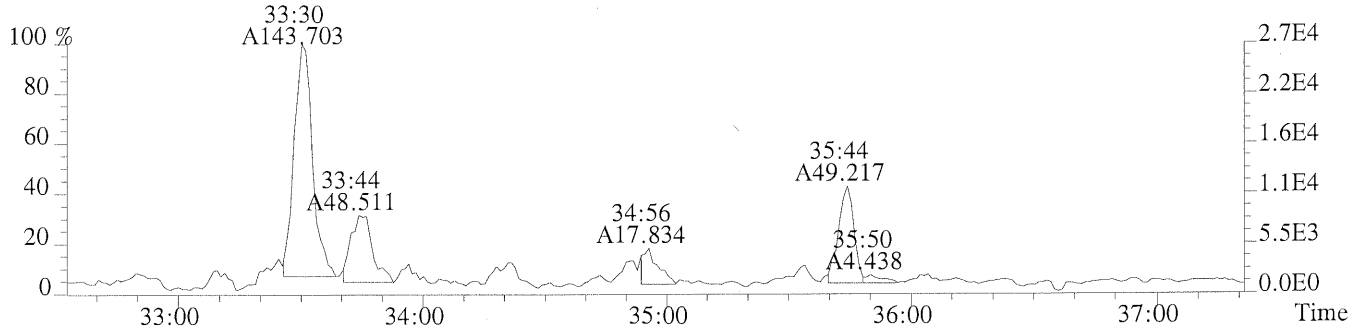


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

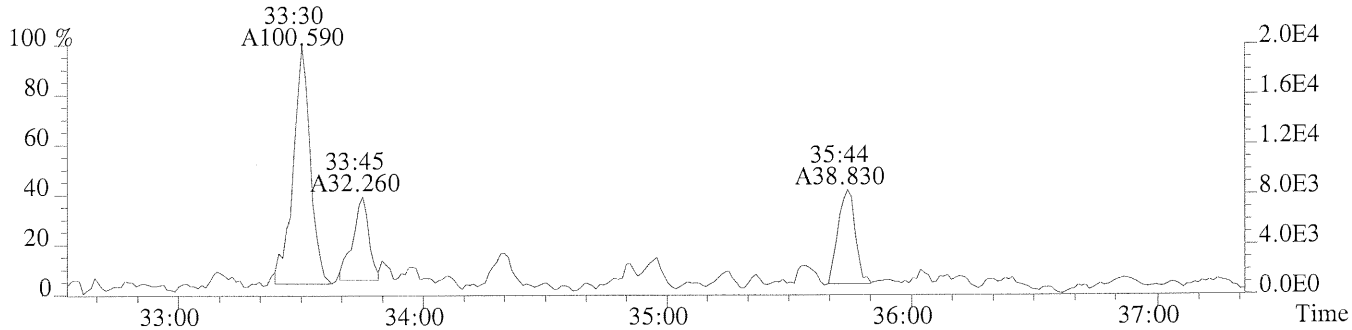


File:U142054 #1-308 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

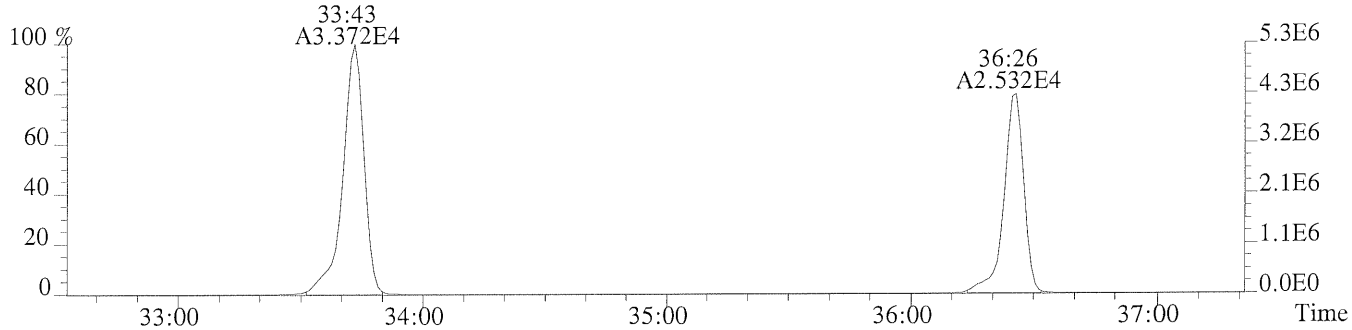
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1704.0,1.00%,F,T)



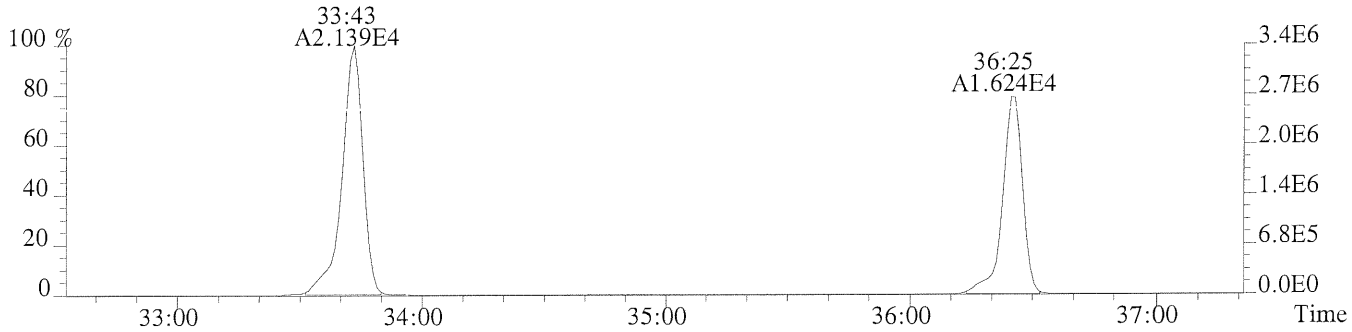
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



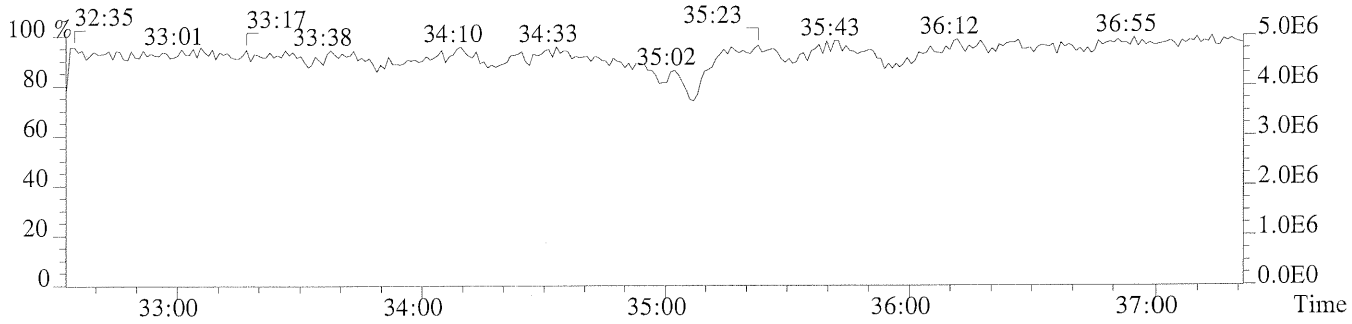
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,612.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)

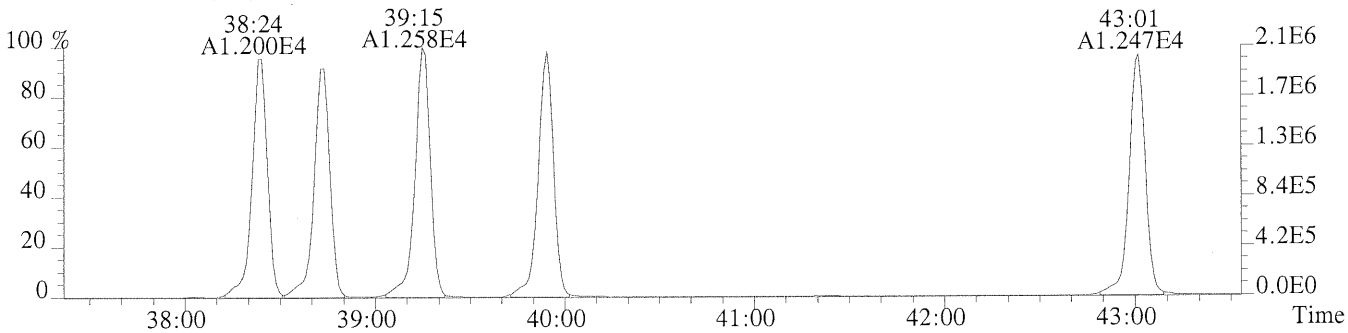


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

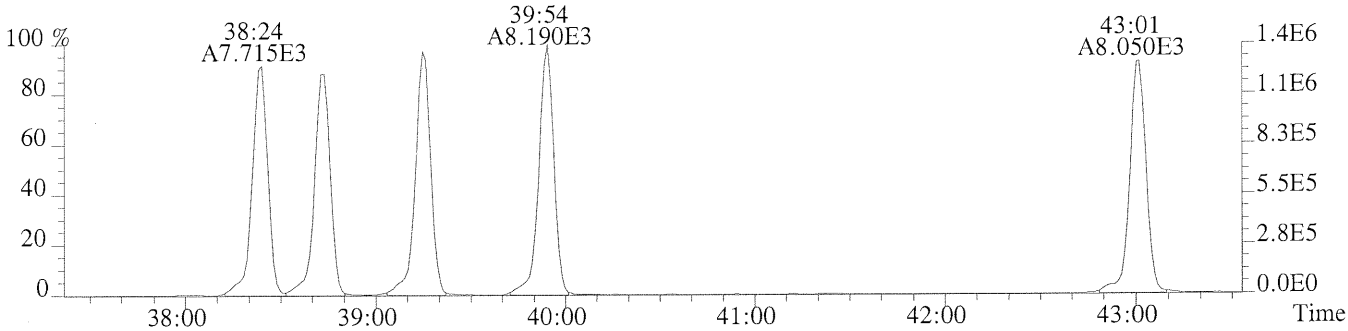


File:U142054 #1-396 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

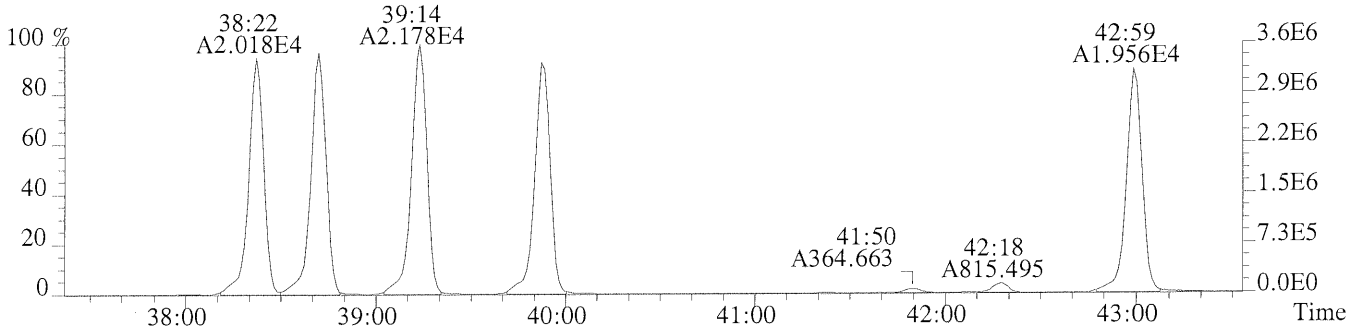
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1268.0,1.00%,F,T)



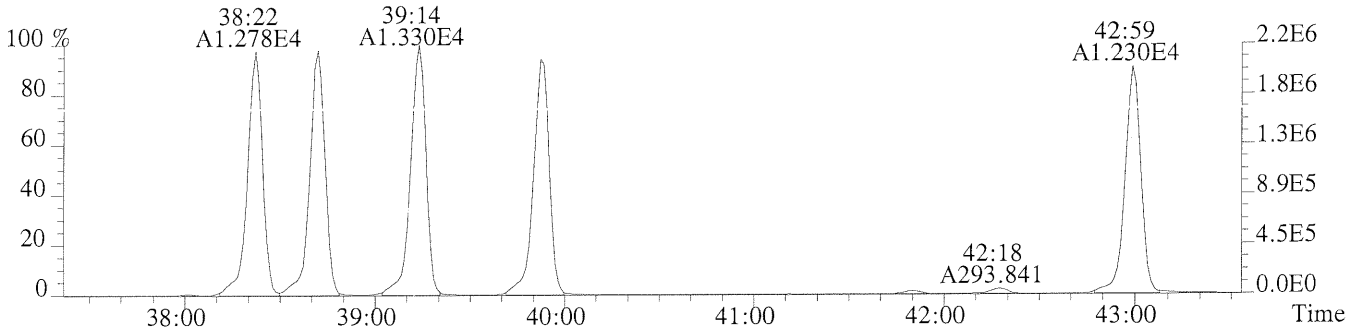
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1704.0,1.00%,F,T)



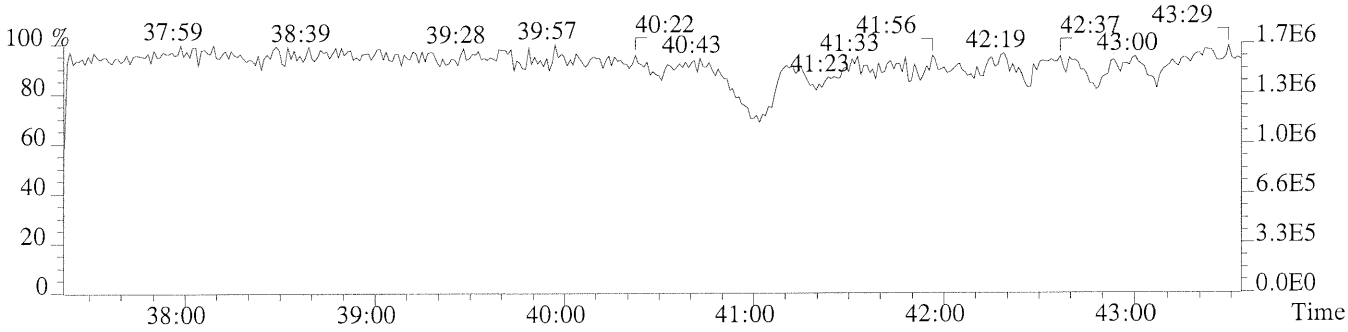
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3728.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)

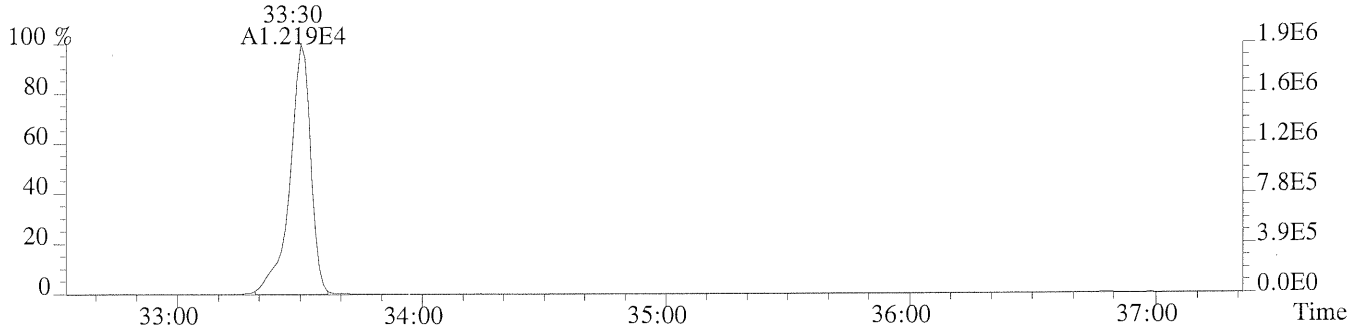


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

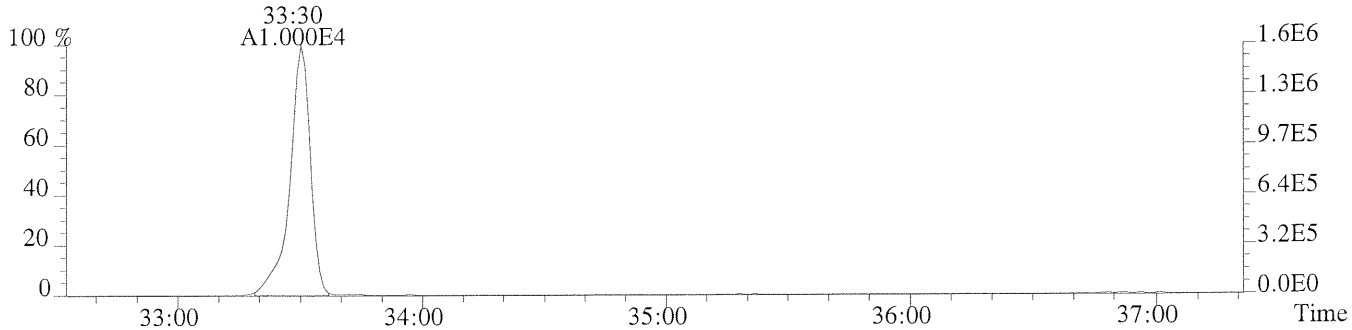


File:U142054 #1-308 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

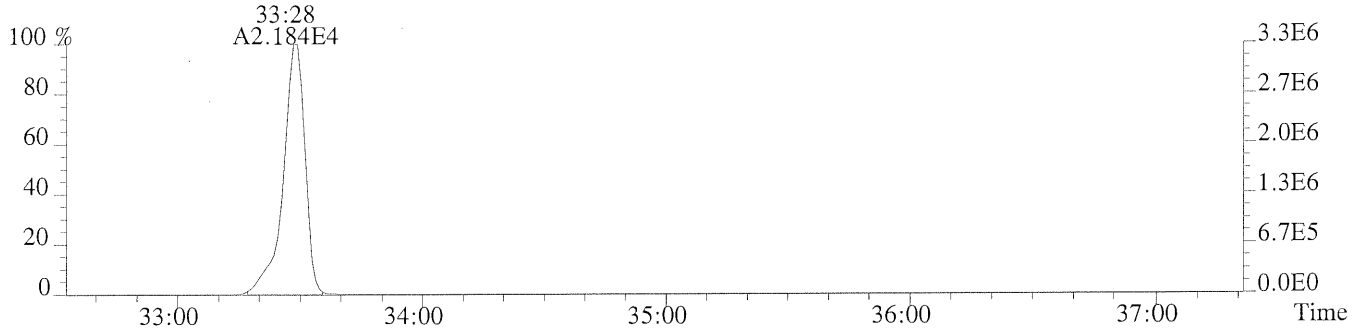
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)



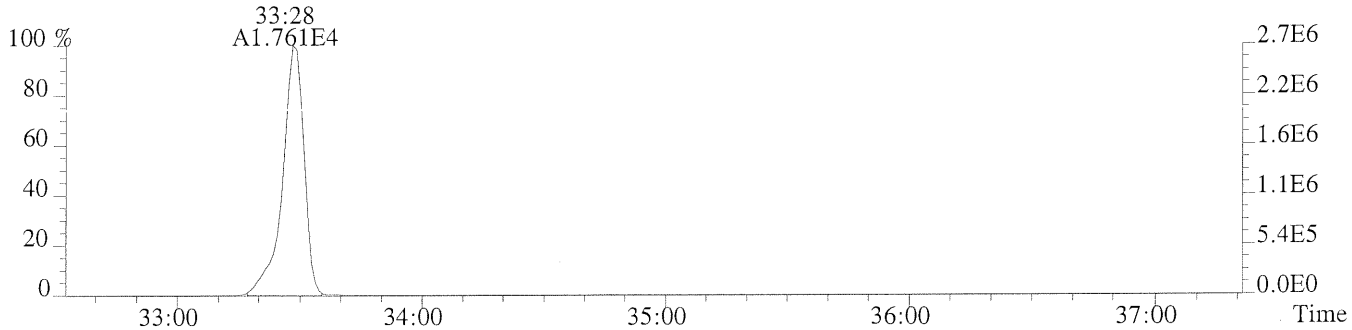
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1324.0,1.00%,F,T)



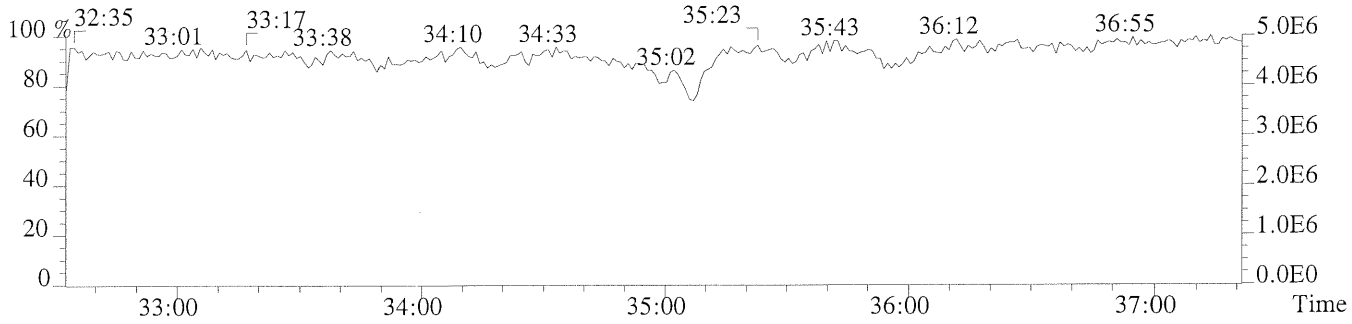
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,848.0,1.00%,F,T)

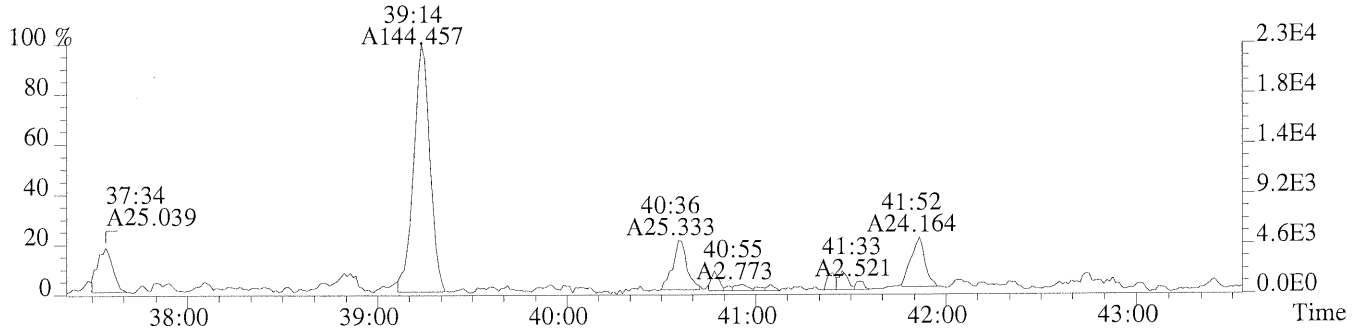


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

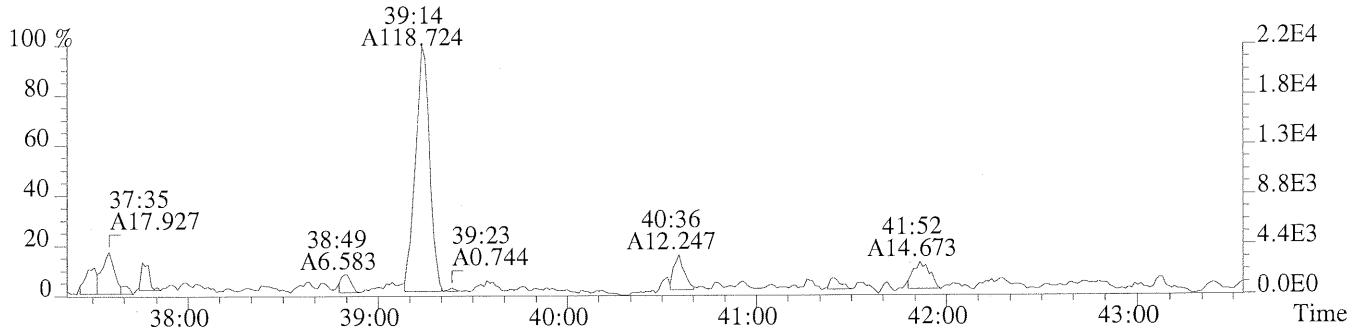


File:U142054 #1-396 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

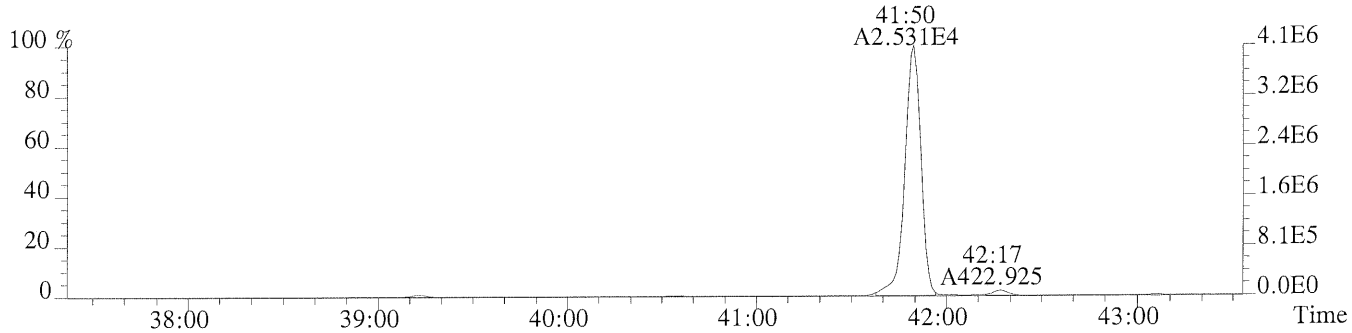
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,708.0,1.00%,F,T)



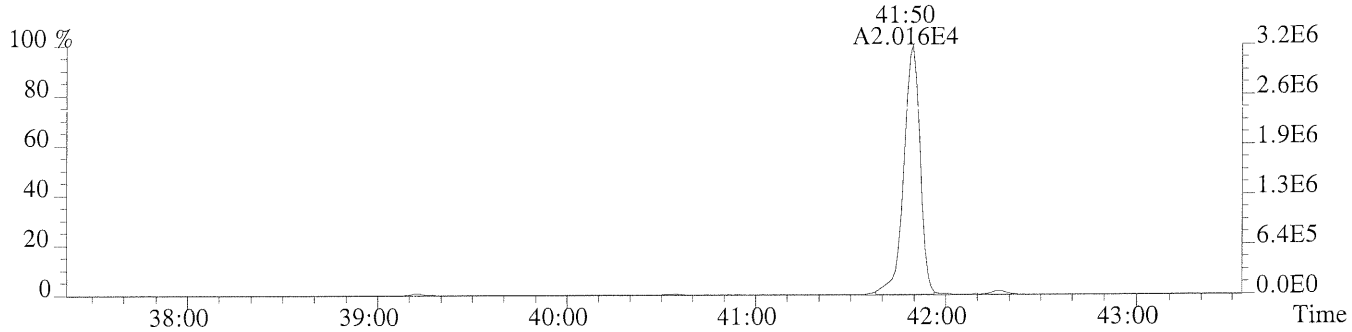
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



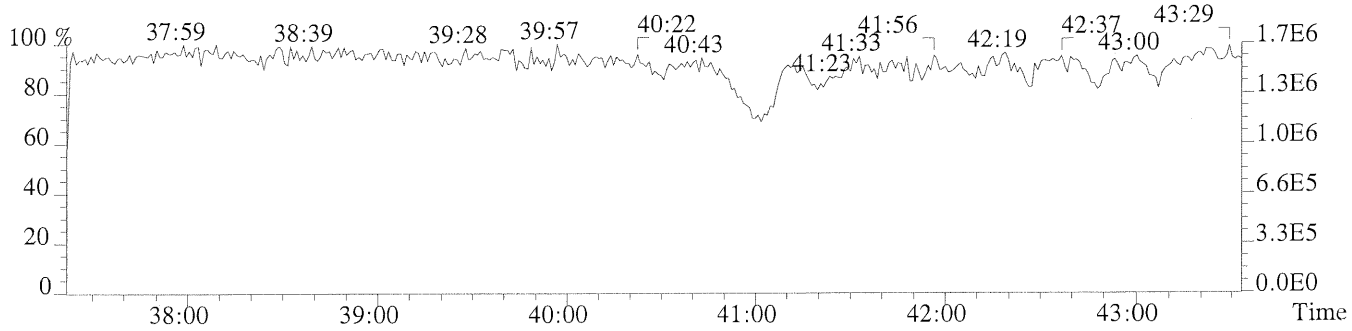
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,748.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)

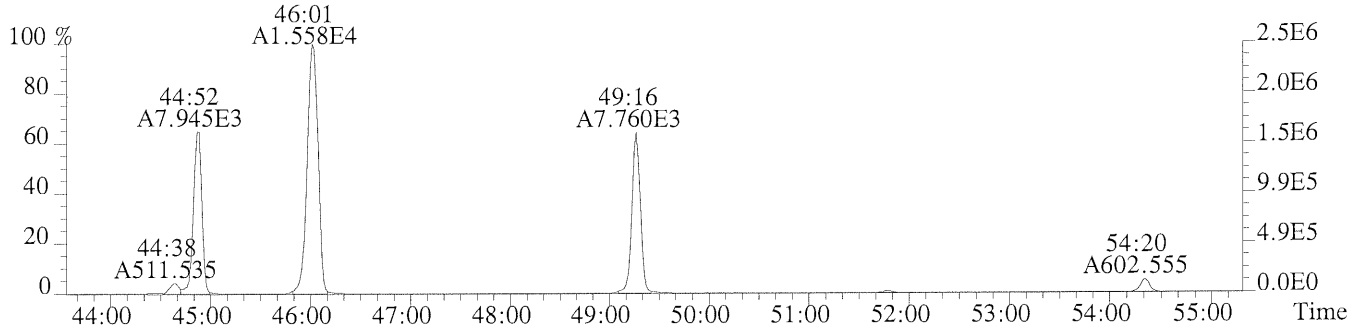


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

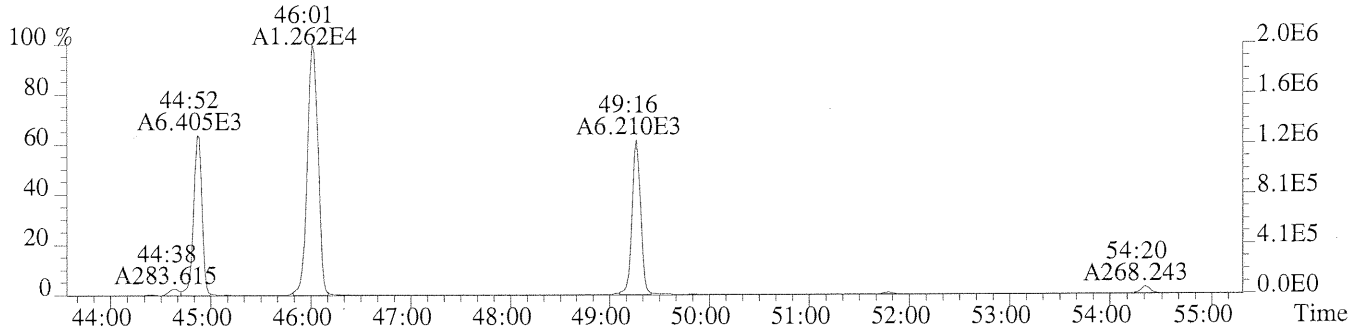


File:U142054 #1-582 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

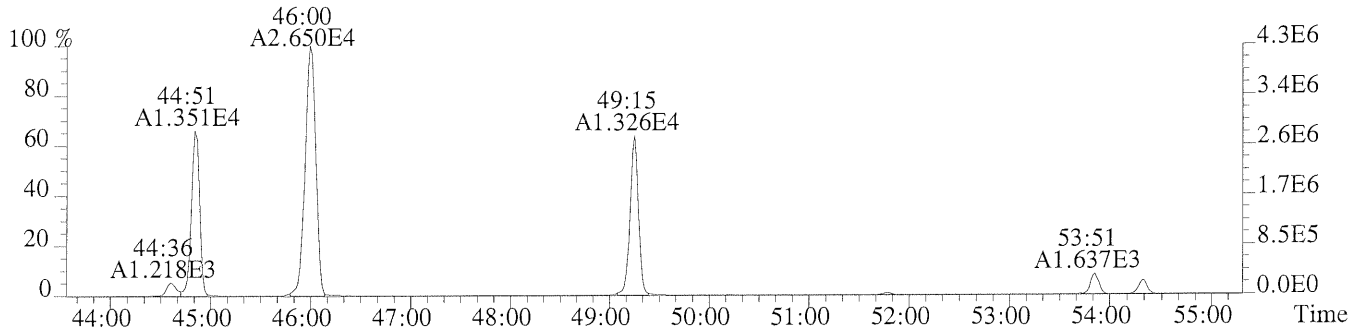
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



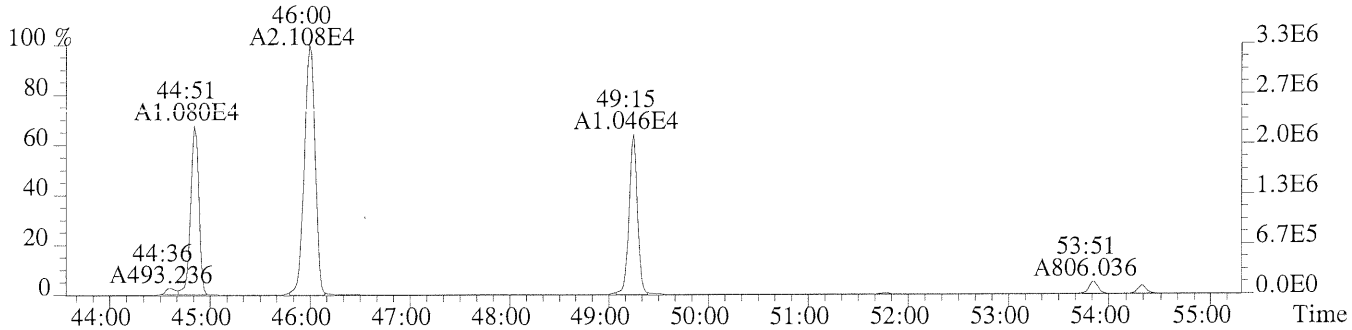
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,744.0,1.00%,F,T)



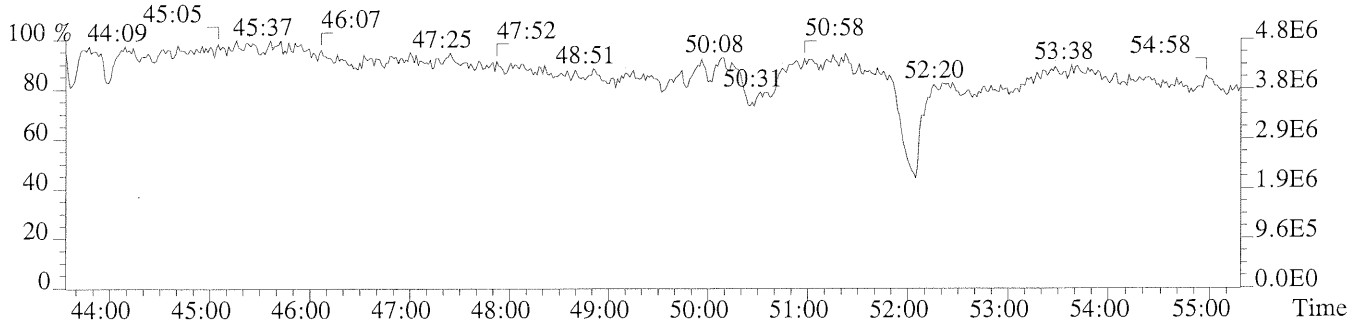
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1108.0,1.00%,F,T)

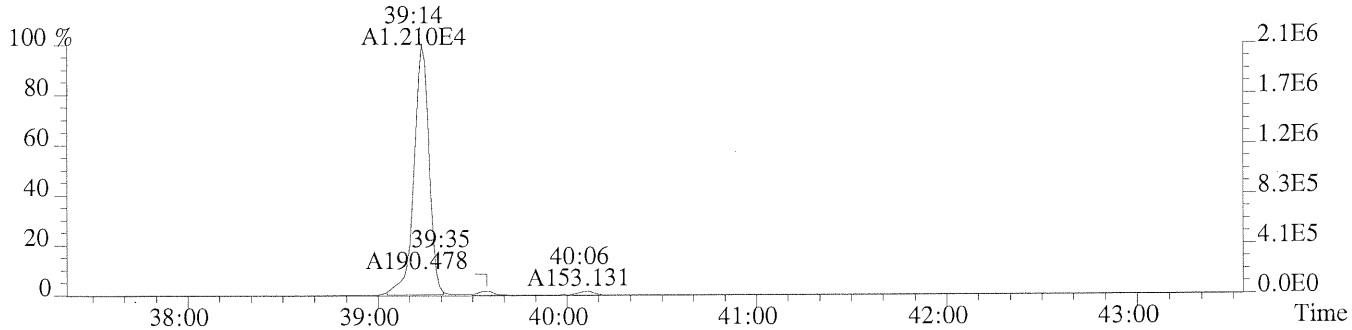


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

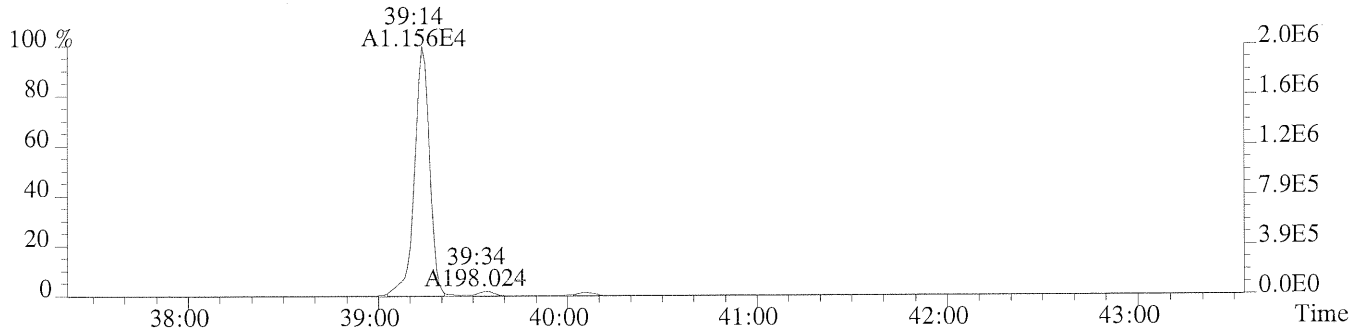


File:U142054 #1-396 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

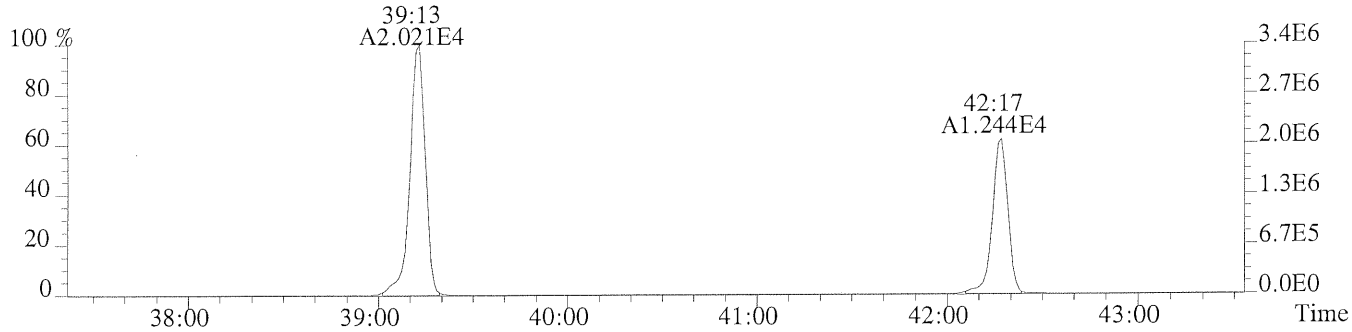
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,756.0,1.00%,F,T)



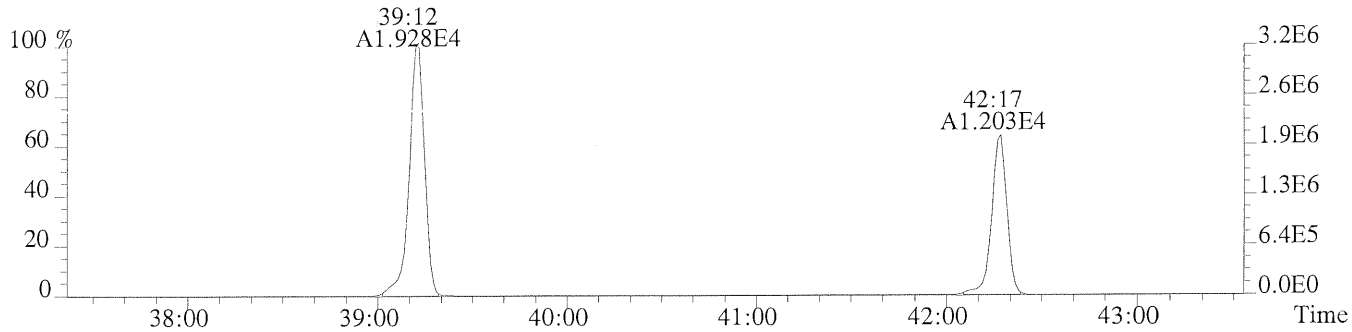
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



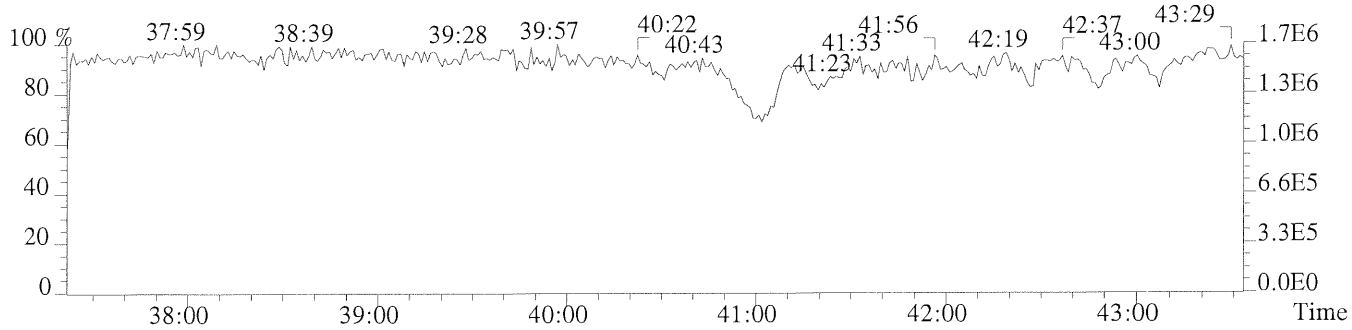
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,824.0,1.00%,F,T)

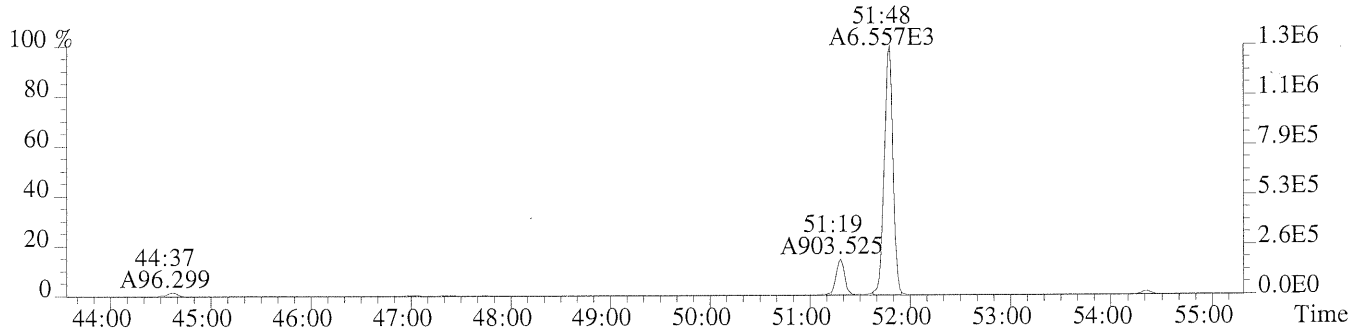


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

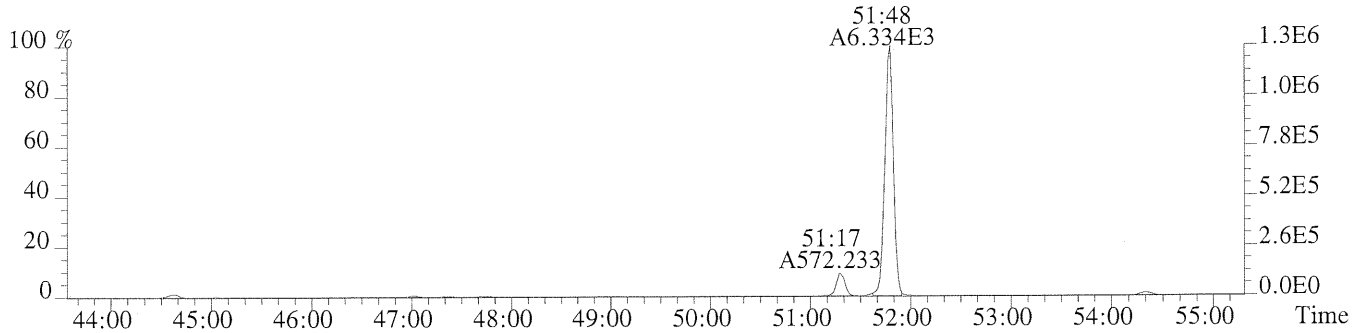


File:U142054 #1-582 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

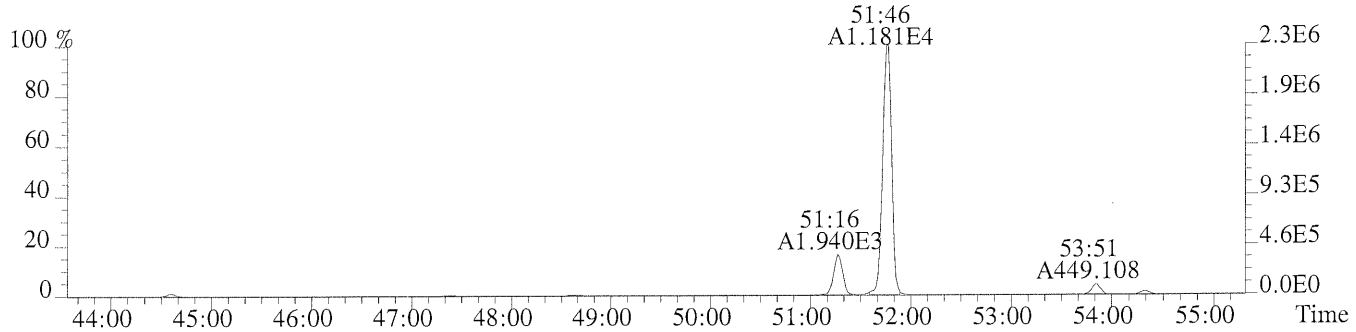
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,628.0,1.00%,F,T)



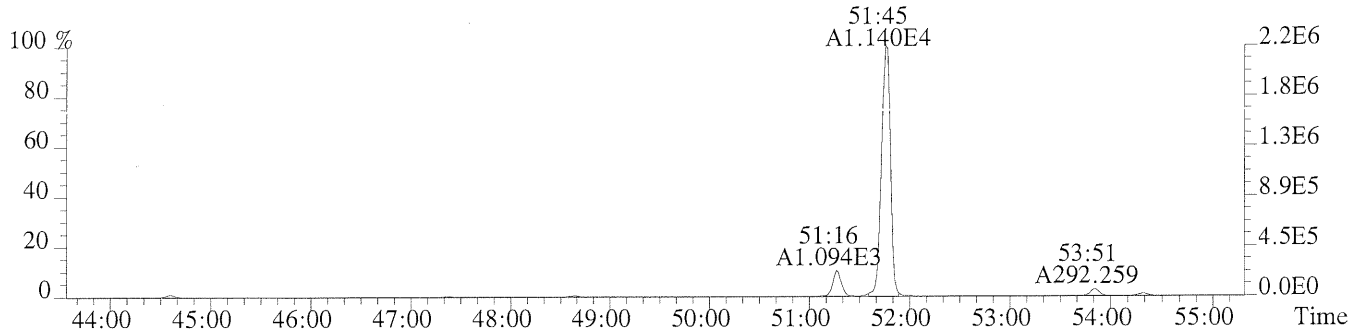
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,660.0,1.00%,F,T)



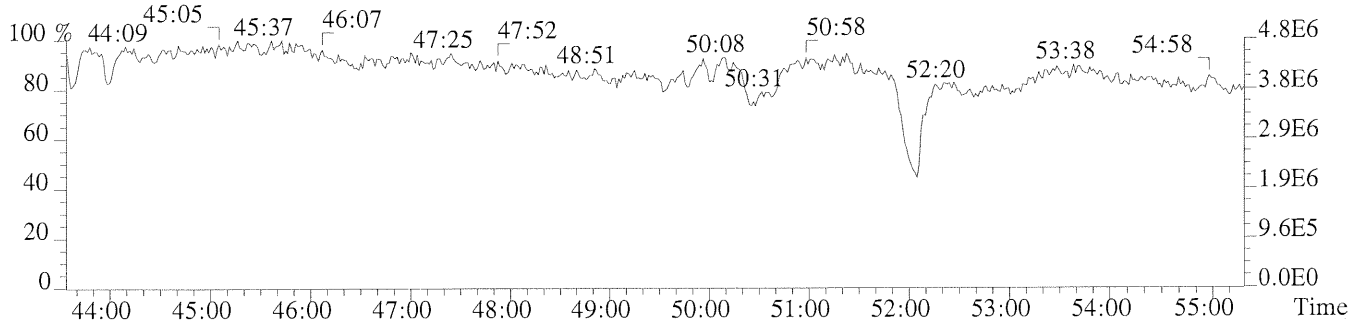
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,988.0,1.00%,F,T)



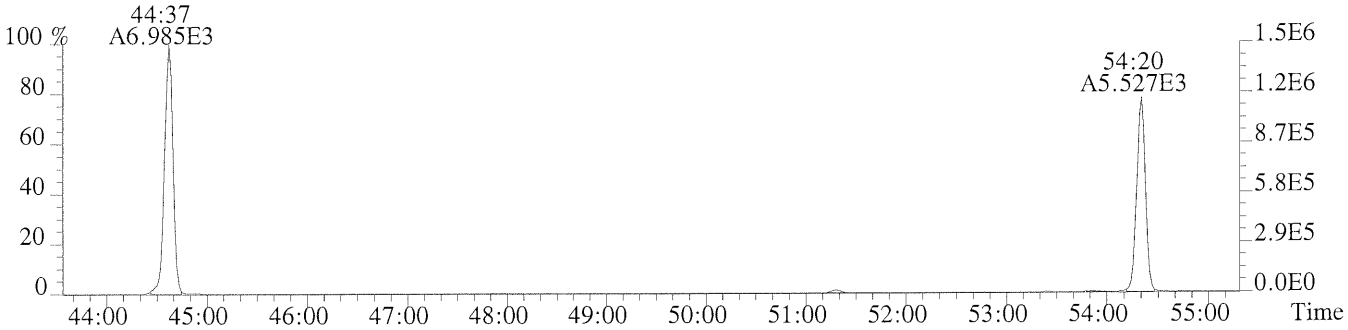
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



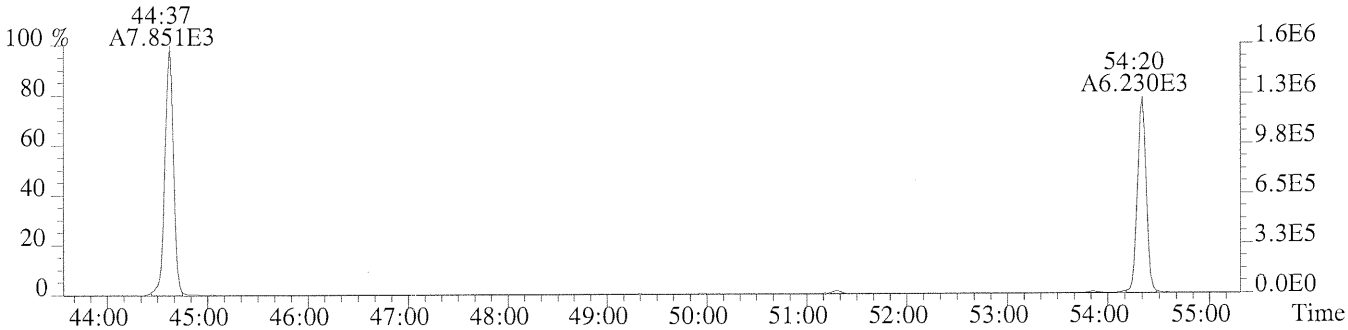
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



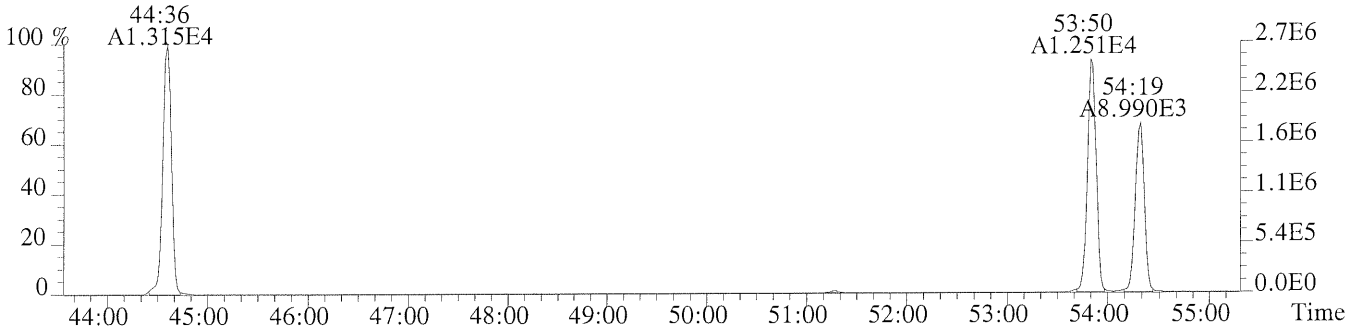
File:U142054 #1-582 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



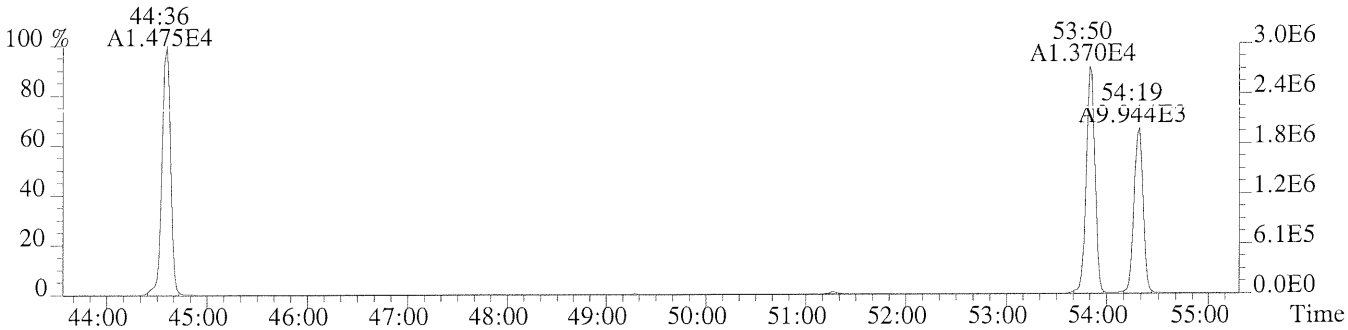
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



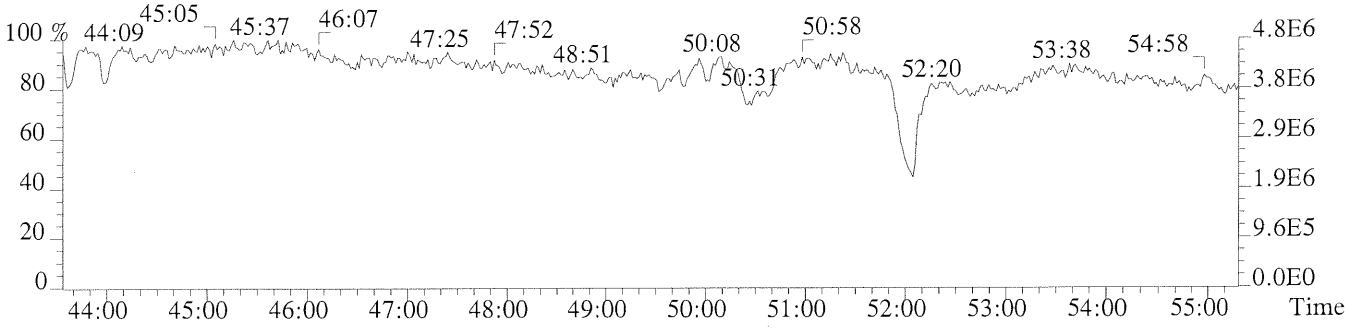
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)

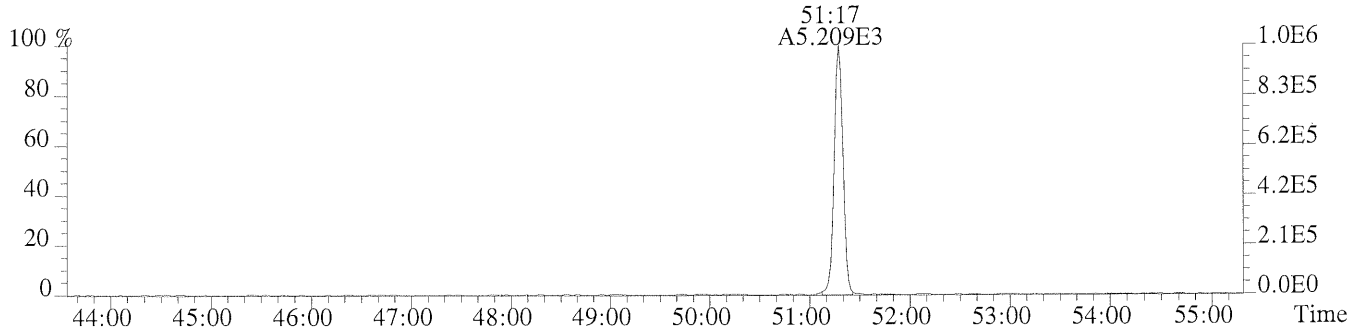


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

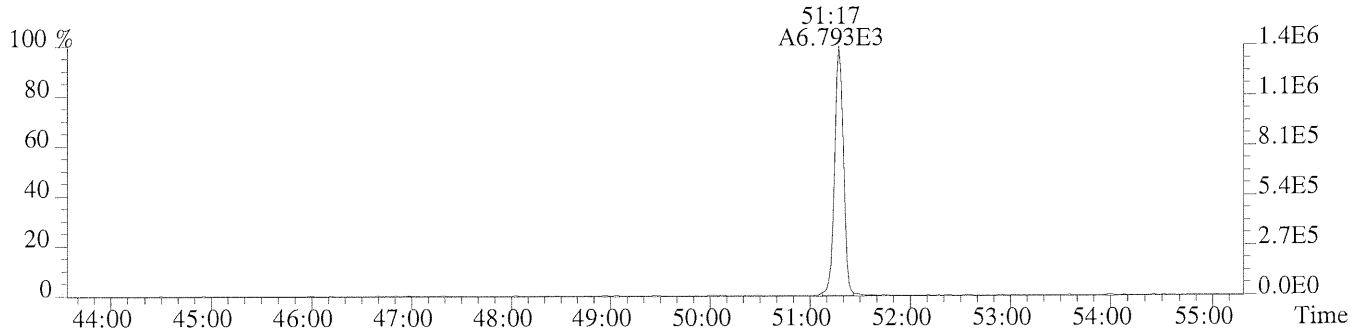


File:U142054 #1-582 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

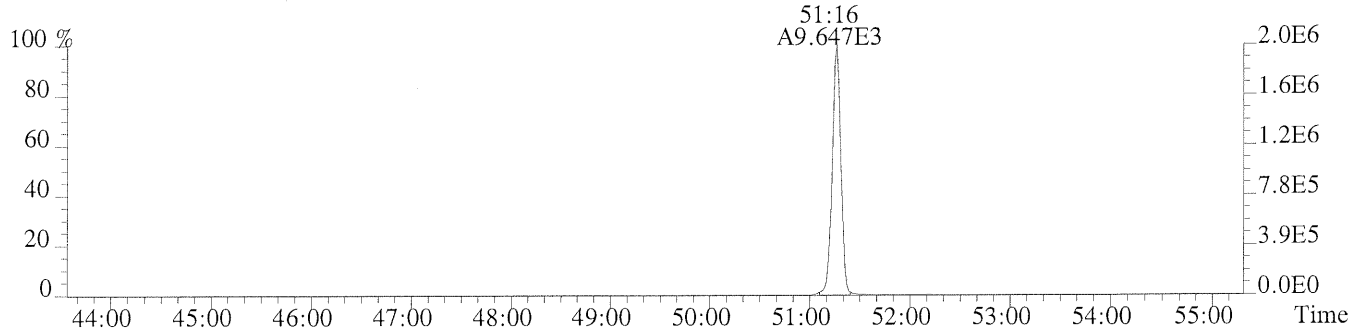
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1396.0,1.00%,F,T)



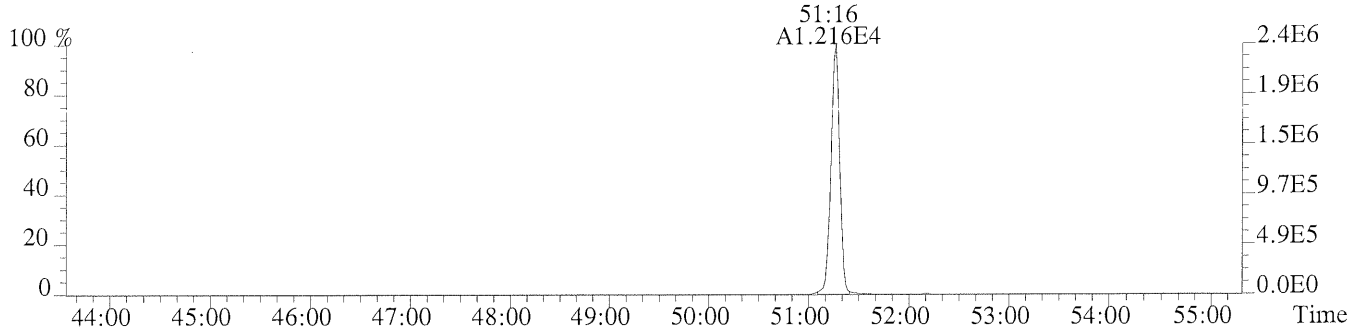
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1164.0,1.00%,F,T)



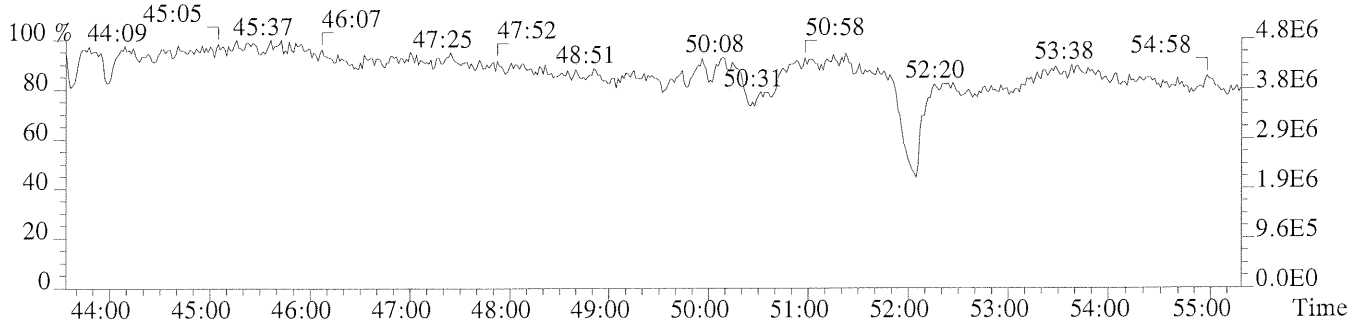
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,916.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,684.0,1.00%,F,T)

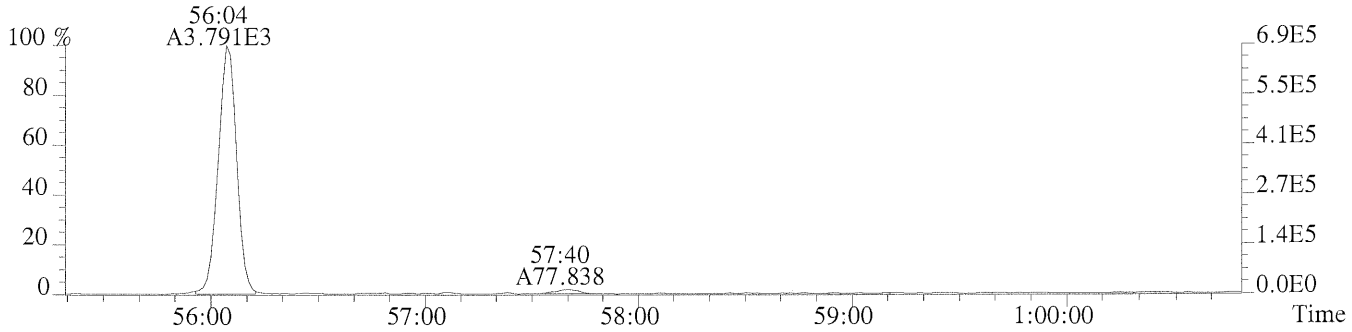


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

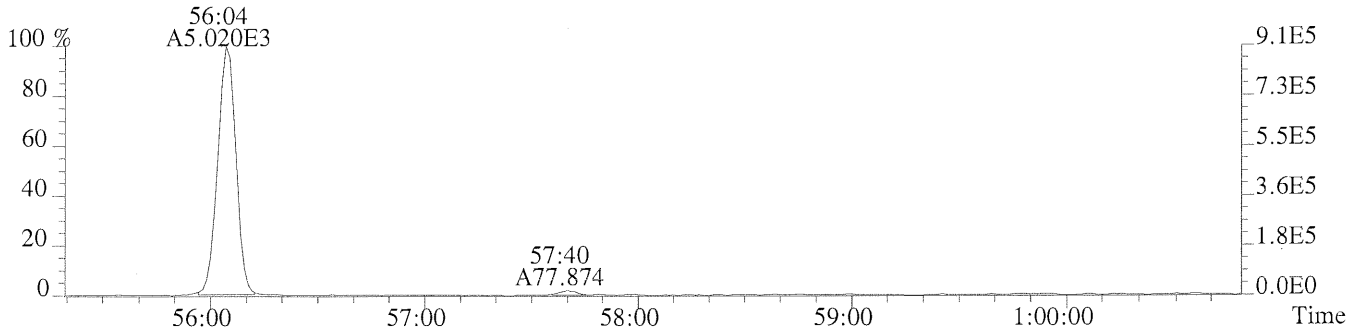


File:U142054 #1-310 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

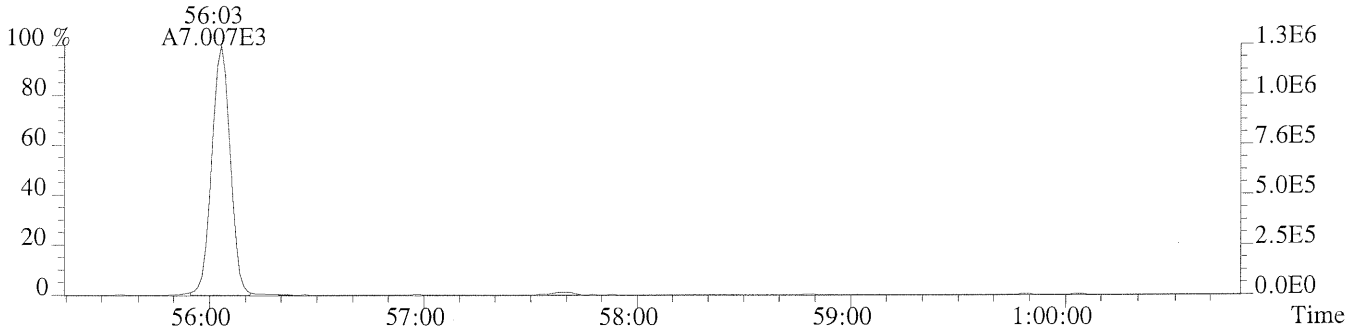
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3036.0,1.00%,F,T)



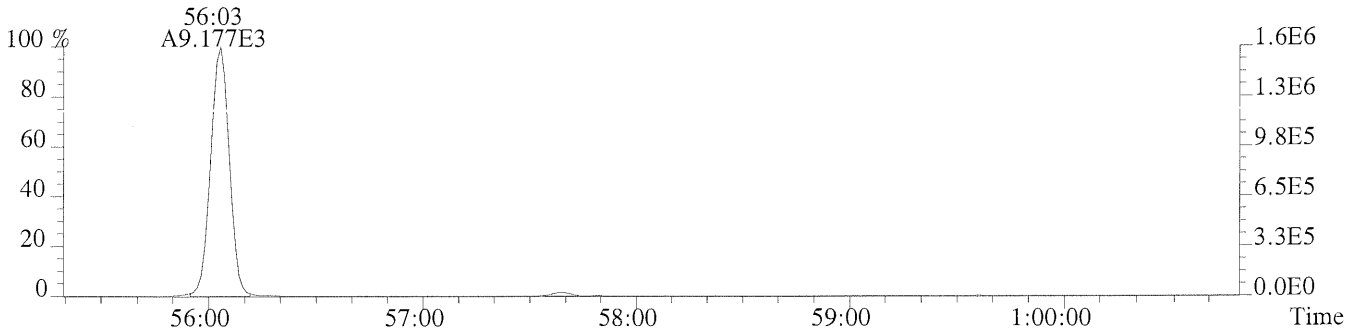
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2940.0,1.00%,F,T)



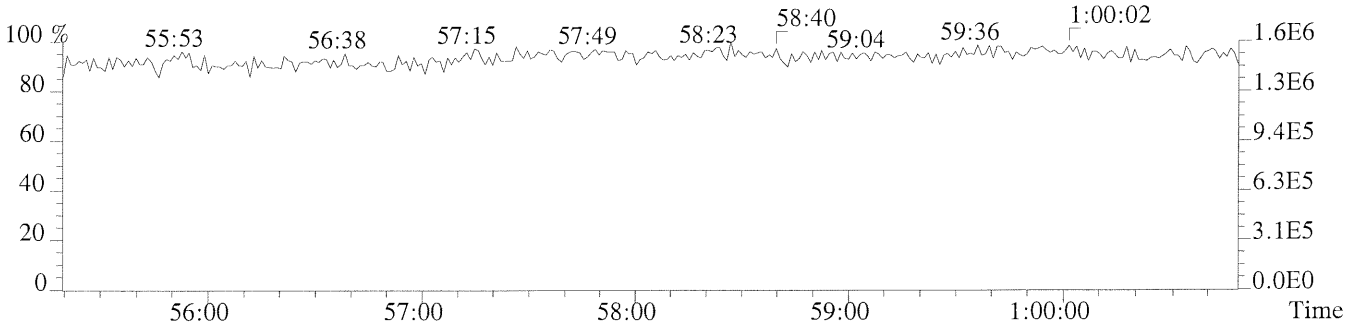
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1444.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1320.0,1.00%,F,T)

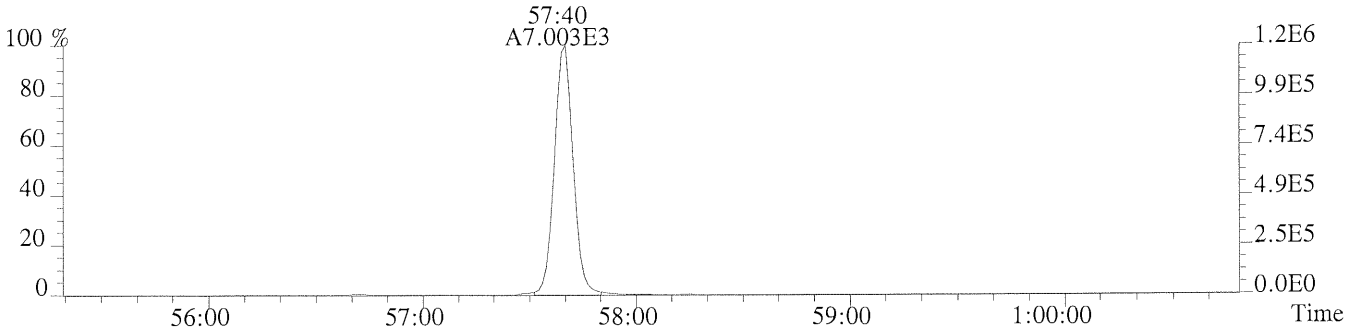


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

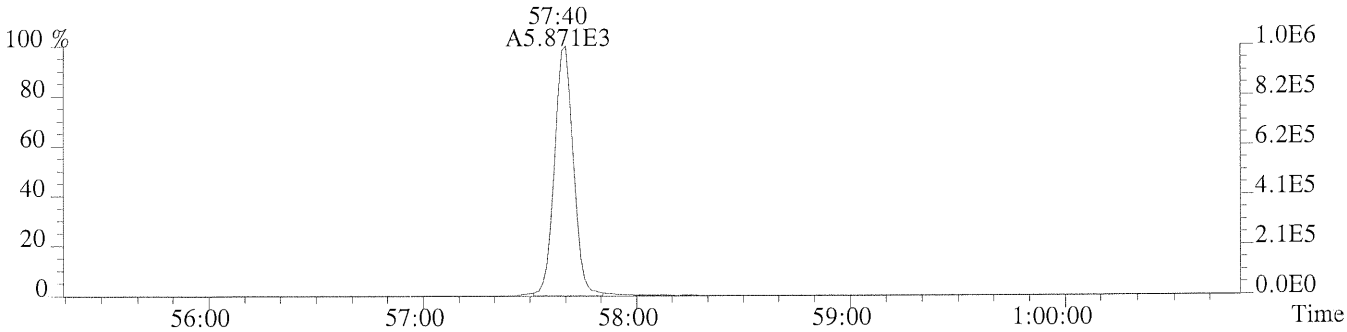


File:U142054 #1-310 Acq: 7-NOV-2011 07:54:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-02 LCS

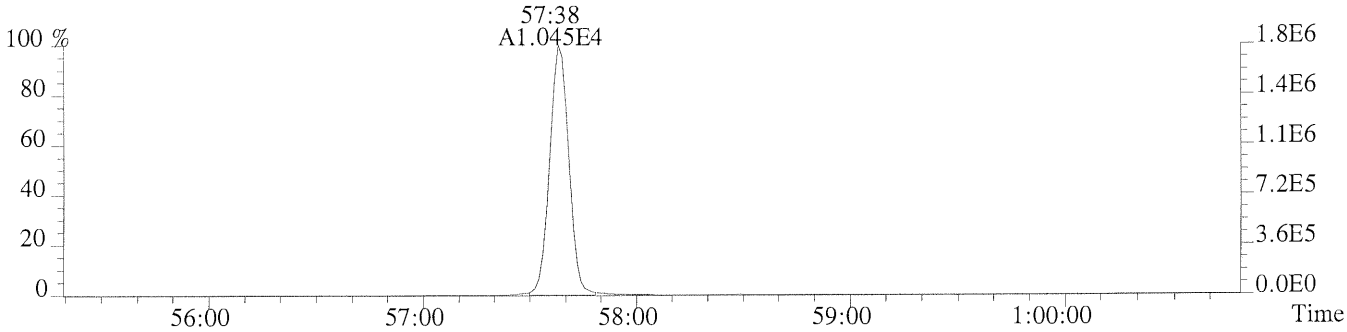
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,912.0,1.00%,F,T)



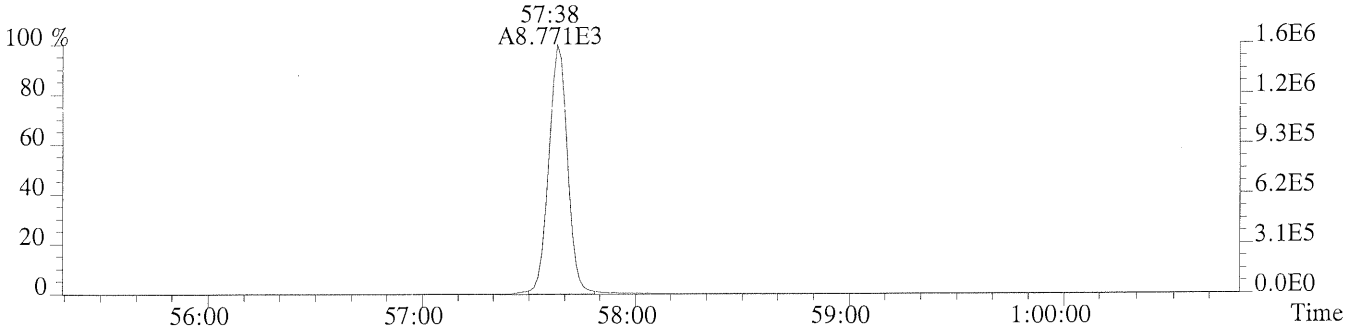
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,704.0,1.00%,F,T)



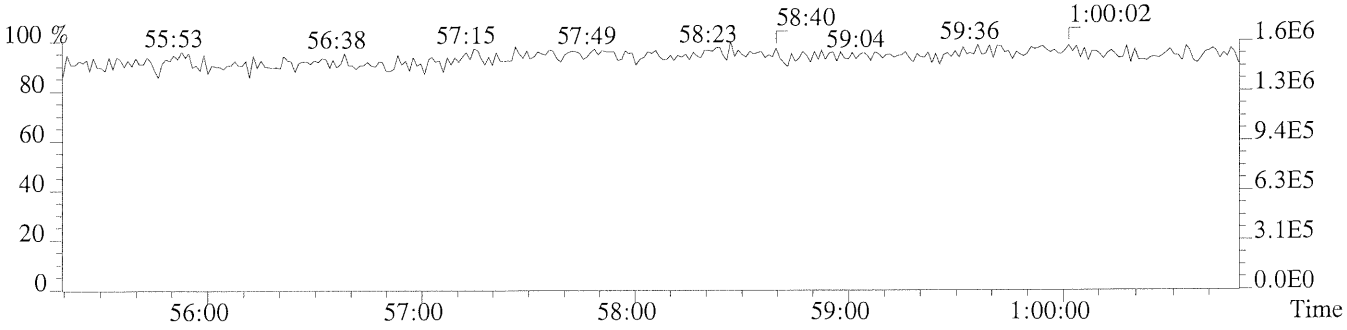
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
DLCS

Run #9 Filename U142055 Samp: 1 Inj: 1 Acquired: 7-NOV-11 08:57:21
Processed: 11-NOV-11 09:54:21 Sample ID: EQ1100494-03

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1	1	2-MoCB	13:21	1.369e+04	4.424e+03	3.09	yes	no
2	3	4-MoCB	15:37	1.484e+04	4.783e+03	3.10	yes	no
3	4	22'-DiCB	15:53	8.695e+03	5.671e+03	1.53	yes	no
4	15	44'-DiCB	21:58	1.013e+04	6.750e+03	1.50	yes	no
5	19	22'6'-TrCB	19:09	5.330e+03	5.117e+03	1.04	yes	no
6	37	344'-TrCB	29:01	8.305e+03	8.169e+03	1.02	yes	no
7	54	22'66'-TeCB	22:16	5.372e+03	6.990e+03	0.77	yes	no
8	81	344'5-TeCB	35:48	7.126e+03	9.314e+03	0.77	yes	no
9	77	33'44'-TeCB	36:22	6.680e+03	8.612e+03	0.78	yes	no
10	104	22'466'-PeCB	27:46	9.356e+03	5.994e+03	1.56	yes	no
11	123	2'344'5-PeCB	38:21	7.732e+03	4.926e+03	1.57	yes	no
12	118	23'44'5-PeCB	38:41	7.663e+03	4.968e+03	1.54	yes	no
13	114	2344'5-PeCB	39:13	8.327e+03	5.289e+03	1.57	yes	no
14	105	233'44'-PeCB	39:52	8.198e+03	5.289e+03	1.55	yes	no
15	126	33'44'5-PeCB	42:58	8.108e+03	5.173e+03	1.57	yes	no
16	155	22'44'66'-HxCB	33:28	8.871e+03	7.110e+03	1.25	yes	no
17	167	23'44'55'-HxCB	44:51	4.980e+03	4.077e+03	1.22	yes	no
18	156/7	233'44'5-HxCB	46:00	9.964e+03	8.161e+03	1.22	yes	no
19	169	33'44'55'-HxCB	49:14	5.356e+03	4.155e+03	1.29	yes	no
20	188	22'34'566'-HpCB	39:12	8.221e+03	7.975e+03	1.03	yes	no
21	189	233'44'55'-HpCB	51:45	4.899e+03	4.769e+03	1.03	yes	no
22	202	22'33'55'66'-OcCB	44:35	5.190e+03	5.735e+03	0.90	yes	no
23	205	233'44'55'6-OcCB	54:18	4.408e+03	4.940e+03	0.89	yes	no
24	208	22'33'4'55'66'-NoCB	51:15	3.948e+03	5.049e+03	0.78	yes	no
25	206	22'33'44'55'6-NoCB	56:03	3.021e+03	3.896e+03	0.78	yes	no
26	209	DeCB	57:38	5.265e+03	4.473e+03	1.18	yes	no
27	1L	13C-2-MoCB	13:20	2.302e+04	7.651e+03	3.01	yes	no
28	3L	13C-4-MoCB	15:36	2.528e+04	8.244e+03	3.07	yes	no
29	4L	13C-22'-DiCB	15:52	1.330e+04	8.575e+03	1.55	yes	no
30	15L	13C-44'-DiCB	21:57	1.877e+04	1.183e+04	1.59	yes	no
31	19L	13C-22'6'-TrCB	19:08	9.122e+03	1.022e+04	0.89	yes	no
32	37L	13C-344'-TrCB	29:00	1.562e+04	1.457e+04	1.07	yes	no
33	54L	13C-22'66'-TeCB	22:15	9.376e+03	1.187e+04	0.79	yes	no
34	81L	13C-344'5-TeCB	35:47	1.217e+04	1.498e+04	0.81	yes	no
35	77L	13C-33'44'-TeCB	36:21	1.236e+04	1.568e+04	0.79	yes	no
36	104L	13C-22'466'-PeCB	27:45	1.660e+04	1.073e+04	1.55	yes	no
37	123L	13C-2'344'5-PeCB	38:20	1.380e+04	8.808e+03	1.57	yes	no
38	118L	13C-23'44'5-PeCB	38:40	1.439e+04	8.885e+03	1.62	yes	no
39	114L	13C-2344'5-PeCB	39:12	1.531e+04	9.373e+03	1.63	yes	no
40	105L	13C-233'44'-PeCB	39:50	1.439e+04	8.918e+03	1.61	yes	no
41	126L	13C-33'44'5-PeCB	42:57	1.372e+04	8.521e+03	1.61	yes	no
42	155L	13C-22'44'66'-HxCB	33:26	1.615e+04	1.332e+04	1.21	yes	no
43	167L	13C-23'44'55'-HxCB	44:49	9.436e+03	7.449e+03	1.27	yes	no
44	156/7	13C-233'44'5'-HxCB	45:59	1.844e+04	1.472e+04	1.25	yes	no
45	169L	13C-33'44'55'-HxCB	49:12	9.499e+03	7.530e+03	1.26	yes	no
46	188L	13C-22'34'566'-HpCB	39:10	1.438e+04	1.391e+04	1.03	yes	no
47	189L	13C-233'44'55'-HpCB	51:44	9.245e+03	9.009e+03	1.03	yes	no
48	202L	13C-22'33'55'66'-OcCB	44:34	1.010e+04	1.106e+04	0.91	yes	no
49	205L	13C-233'44'55'6-OcCB	54:17	7.571e+03	8.340e+03	0.91	yes	no
50	208L	13C-22'33'4'55'66'-NoCB	51:14	7.262e+03	9.554e+03	0.76	yes	no
51	206L	13C-22'33'44'55'6-NoCB	56:01	5.715e+03	7.387e+03	0.77	yes	no
52	209L	13C-DeCB	57:37	8.374e+03	7.037e+03	1.19	yes	no

53	28L	13C-244'-TrCB	24:57	1.545e+04	1.429e+04	1.08	yes	no
54	111L	13C-233'55'-PeCB	36:23	1.678e+04	1.065e+04	1.57	yes	no
55	178L	13C-22'33'55'6-HpCB	42:15	8.521e+03	8.102e+03	1.05	yes	no
56	9L	13C-2,5-DiCB	17:56	2.416e+04	1.516e+04	1.59	yes	no
57	52L	13C-22'55'-TeCB	26:47	1.507e+04	1.929e+04	0.78	yes	no
58	101L	13C-22'4'55'-PeCB	33:41	1.935e+04	1.250e+04	1.55	yes	no
59	138L	13C-22'3'44'5'-HxCB	41:48	1.514e+04	1.188e+04	1.27	yes	no
60	194L	13C-22'33'44'55'-OcCB	53:49	8.014e+03	8.850e+03	0.91	yes	no

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
Office(713)266-1599. Fax(713)266-0130

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
DLCS

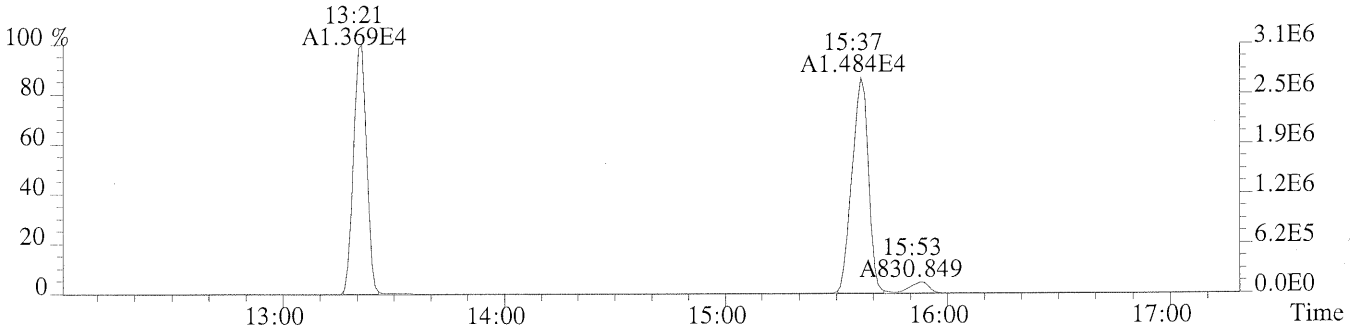
Run #9 Filename U142055 Samp: 1 Inj: 1 Acquired: 7-NOV-11 08:57:21
Processed: 11-NOV-11 09:54:211 LAB. ID: EQ1100494-03

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	3.12e+06	1.76e+03	1.8e+03	1.00e+06	1.21e+03	8.3e+02
2	4-MoCB	2.71e+06	1.76e+03	1.5e+03	8.74e+05	1.21e+03	7.2e+02
3	22'-DiCB	1.54e+06	5.68e+03	2.7e+02	1.00e+06	5.39e+04	1.9e+01
4	44'-DiCB	1.98e+06	7.36e+03	2.7e+02	1.32e+06	1.62e+05	8.1e+00
5	22'6'-TrCB	9.59e+05	1.53e+04	6.2e+01	8.97e+05	1.08e+03	8.3e+02
6	344'-TrCB	1.23e+06	5.73e+03	2.1e+02	1.24e+06	1.52e+03	8.2e+02
7	22'66'-TeCB	9.56e+05	8.16e+02	1.2e+03	1.26e+06	1.06e+03	1.2e+03
8	344'5-TeCB	1.11e+06	1.26e+03	8.8e+02	1.46e+06	9.20e+02	1.6e+03
9	33'44'-TeCB	1.00e+06	1.26e+03	8.0e+02	1.30e+06	9.20e+02	1.4e+03
10	22'466'-PeCB	1.41e+06	1.02e+03	1.4e+03	9.07e+05	7.44e+02	1.2e+03
11	2'344'5-PeCB	1.22e+06	1.21e+03	1.0e+03	7.52e+05	9.24e+02	8.1e+02
12	23'44'5-PeCB	1.20e+06	1.21e+03	1.0e+03	7.80e+05	9.24e+02	8.4e+02
13	2344'5-PeCB	1.31e+06	1.21e+03	1.1e+03	8.23e+05	9.24e+02	8.9e+02
14	233'44'-PeCB	1.30e+06	1.21e+03	1.1e+03	8.32e+05	9.24e+02	9.0e+02
15	33'44'5-PeCB	1.26e+06	1.21e+03	1.0e+03	8.09e+05	9.24e+02	8.8e+02
16	22'44'66'-HxCB	1.33e+06	1.73e+03	7.7e+02	1.06e+06	1.70e+03	6.3e+02
17	23'44'55'-HxCB	1.03e+06	1.17e+03	8.8e+02	8.32e+05	8.88e+02	9.4e+02
18	233'44'5-HxCB	1.56e+06	1.17e+03	1.3e+03	1.28e+06	8.88e+02	1.4e+03
19	33'44'55'-HxCB	1.08e+06	1.17e+03	9.3e+02	8.13e+05	8.88e+02	9.2e+02
20	22'34'566'-HpCB	1.30e+06	9.00e+02	1.4e+03	1.26e+06	6.28e+02	2.0e+03
21	233'44'55'-HpCB	9.79e+05	1.00e+03	9.8e+02	9.58e+05	6.96e+02	1.4e+03
22	22'33'55'66'-OcCB	1.01e+06	1.11e+03	9.1e+02	1.13e+06	8.52e+02	1.3e+03
23	233'44'55'6-OcCB	8.74e+05	1.11e+03	7.9e+02	9.90e+05	8.52e+02	1.2e+03
24	22'33'4'55'66'-NoCB	7.78e+05	6.60e+02	1.2e+03	9.97e+05	1.41e+03	7.1e+02
25	22'33'44'55'6-NoCB	5.48e+05	1.88e+03	2.9e+02	6.96e+05	2.03e+03	3.4e+02
26	DeCB	9.30e+05	1.07e+03	8.7e+02	7.84e+05	1.28e+03	6.1e+02
27	13C-2-MoCB	5.39e+06	2.26e+03	2.4e+03	1.77e+06	8.93e+03	2.0e+02
28	13C-4-MoCB	4.63e+06	2.26e+03	2.1e+03	1.54e+06	8.93e+03	1.7e+02
29	13C-22'-DiCB	2.37e+06	1.11e+03	2.1e+03	1.54e+06	1.30e+03	1.2e+03
30	13C-44'-DiCB	3.63e+06	2.06e+03	1.8e+03	2.27e+06	5.72e+02	4.0e+03
31	13C-22'6'-TrCB	1.62e+06	7.79e+04	2.1e+01	1.65e+06	1.05e+05	1.6e+01
32	13C-344'-TrCB	2.29e+06	2.69e+04	8.5e+01	2.13e+06	3.25e+04	6.5e+01
33	13C-22'66'-TeCB	1.68e+06	6.63e+03	2.5e+02	2.13e+06	3.34e+03	6.4e+02
34	13C-344'5-TeCB	1.88e+06	4.45e+03	4.2e+02	2.33e+06	2.55e+03	9.1e+02
35	13C-33'44'-TeCB	1.87e+06	4.45e+03	4.2e+02	2.32e+06	2.55e+03	9.1e+02
36	13C-22'466'-PeCB	2.57e+06	1.18e+03	2.2e+03	1.66e+06	8.60e+02	1.9e+03
37	13C-2'344'5-PeCB	2.19e+06	3.69e+03	5.9e+02	1.39e+06	4.16e+03	3.3e+02
38	13C-23'44'5-PeCB	2.26e+06	3.69e+03	6.1e+02	1.39e+06	4.16e+03	3.3e+02
39	13C-2344'5-PeCB	2.34e+06	3.69e+03	6.3e+02	1.48e+06	4.16e+03	3.6e+02
40	13C-233'44'-PeCB	2.30e+06	3.69e+03	6.2e+02	1.42e+06	4.16e+03	3.4e+02
41	13C-33'44'5-PeCB	2.19e+06	3.69e+03	5.9e+02	1.37e+06	4.16e+03	3.3e+02
42	13C-22'44'66'-HxCB	2.44e+06	1.45e+03	1.7e+03	2.06e+06	1.46e+03	1.4e+03
43	13C-23'44'55'-HxCB	1.89e+06	3.01e+03	6.3e+02	1.50e+06	4.24e+02	3.5e+03
44	13C-233'44'5'-HxCB	2.88e+06	3.01e+03	9.6e+02	2.28e+06	4.24e+02	5.4e+03
45	13C-33'44'55'-HxCB	1.87e+06	3.01e+03	6.2e+02	1.49e+06	4.24e+02	3.5e+03
46	13C-22'34'566'-HpCB	2.21e+06	9.44e+02	2.3e+03	2.13e+06	7.44e+02	2.9e+03
47	13C-233'44'55'-HpCB	1.87e+06	1.12e+03	1.7e+03	1.81e+06	6.52e+02	2.8e+03
48	13C-22'33'55'66'-OcCB	2.02e+06	7.20e+02	2.8e+03	2.20e+06	9.32e+02	2.4e+03
49	13C-233'44'55'6-OcCB	1.53e+06	7.20e+02	2.1e+03	1.66e+06	9.32e+02	1.8e+03
50	13C-22'33'4'55'66'-NoCB	1.47e+06	6.88e+02	2.1e+03	1.93e+06	1.00e+03	1.9e+03
51	13C-22'33'44'55'6-NoCB	9.92e+05	7.96e+02	1.2e+03	1.28e+06	1.04e+03	1.2e+03
52	13C-DeCB	1.48e+06	9.08e+02	1.6e+03	1.23e+06	9.00e+02	1.4e+03

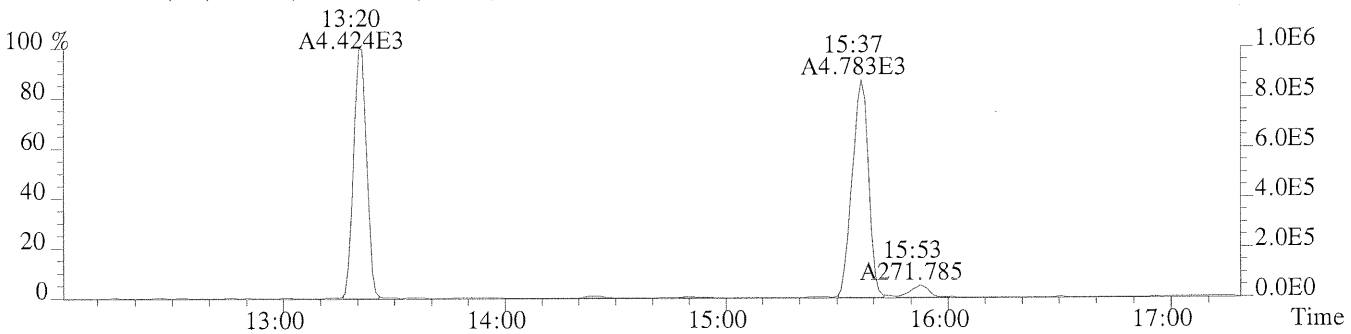
13C-244'-TrCB	2.37e+06	2.69e+04	8.8e+01	2.20e+06	3.25e+04	6.8e+01
13C-233'55'-PeCB	2.66e+06	1.56e+03	1.7e+03	1.69e+06	1.56e+03	1.1e+03
13C-22'33'55'6-HpCB	1.34e+06	9.44e+02	1.4e+03	1.29e+06	7.44e+02	1.7e+03
13C-2,5-DiCB	4.75e+06	2.06e+03	2.3e+03	2.98e+06	5.72e+02	5.2e+03
13C-22'55'-TeCB	2.30e+06	5.02e+03	4.6e+02	3.00e+06	2.82e+03	1.1e+03
13C-22'4'55'-PeCB	2.93e+06	1.56e+03	1.9e+03	1.88e+06	1.56e+03	1.2e+03
13C-22'3'44'5'-HxCB	2.32e+06	8.00e+02	2.9e+03	1.82e+06	9.44e+02	1.9e+03
13C-22'33'44'55'-OcCB	1.65e+06	7.20e+02	2.3e+03	1.81e+06	9.32e+02	1.9e+03

File:U142055 #1-341 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

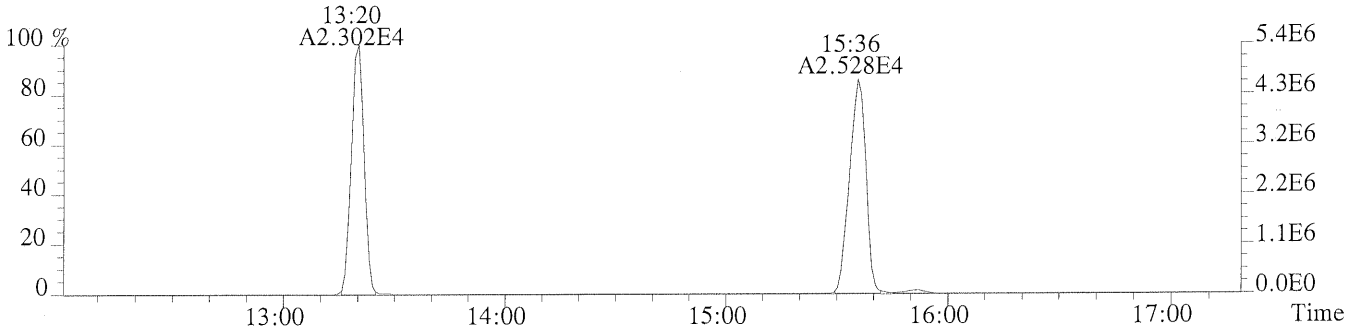
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1760.0,1.00%,F,T)



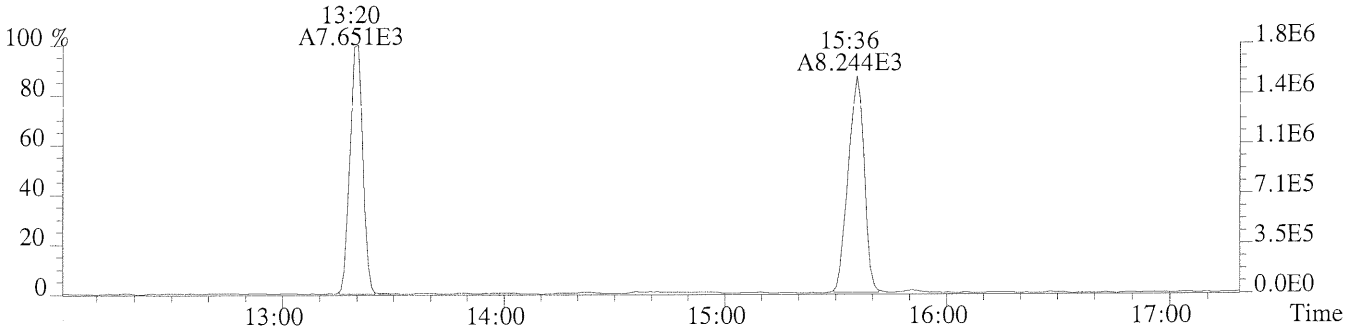
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1208.0,1.00%,F,T)



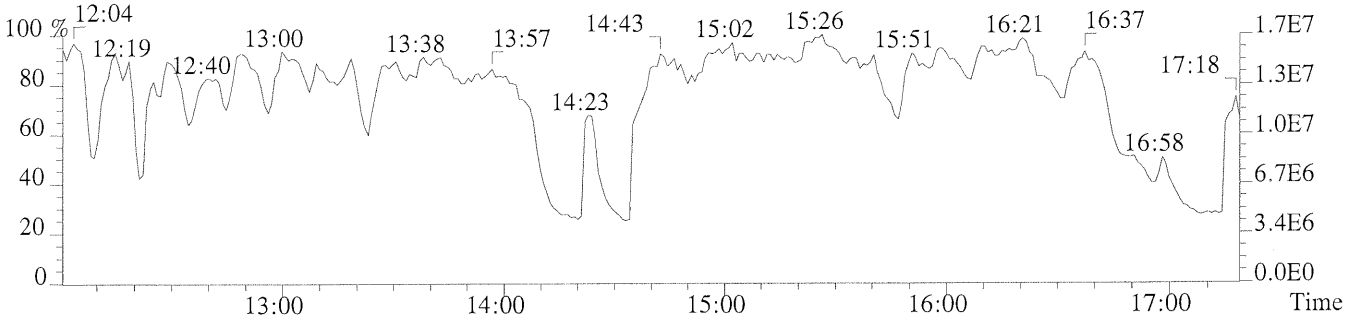
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2260.0,1.00%,F,T)



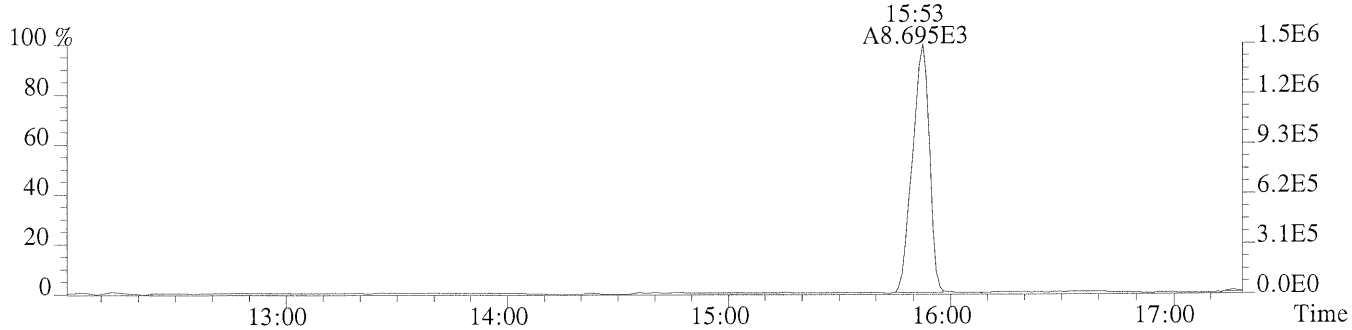
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8928.0,1.00%,F,T)



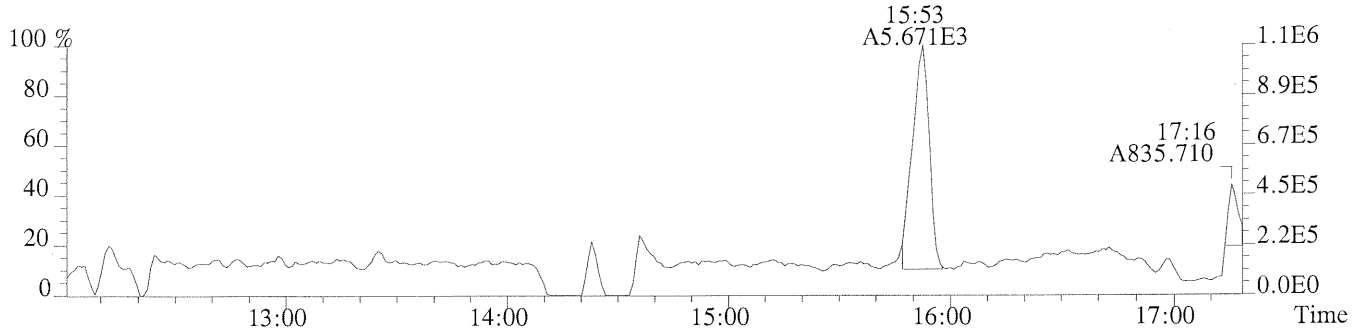
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



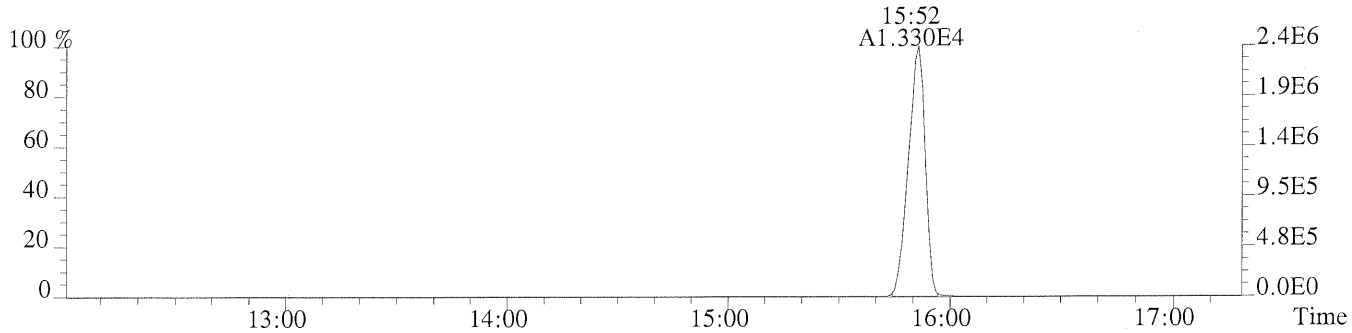
File:U142055 #1-341 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9628.0,1.00%,F,T)



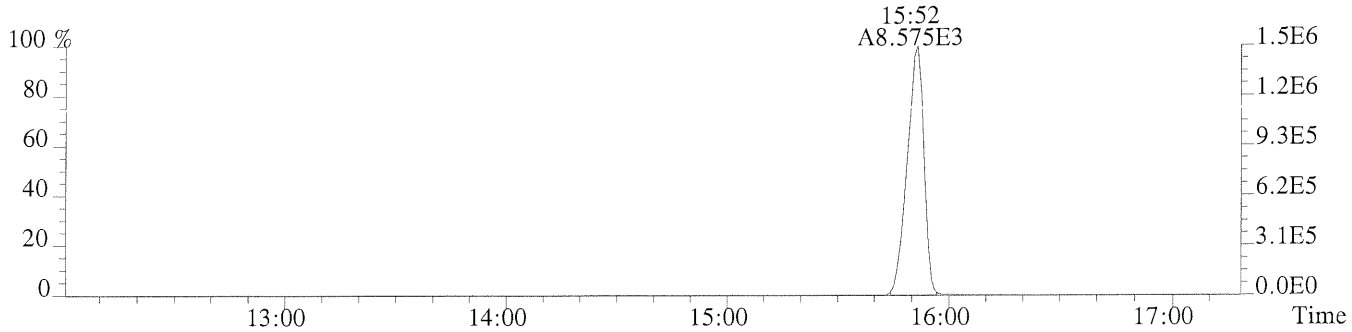
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,175784.0,1.00%,F,T)



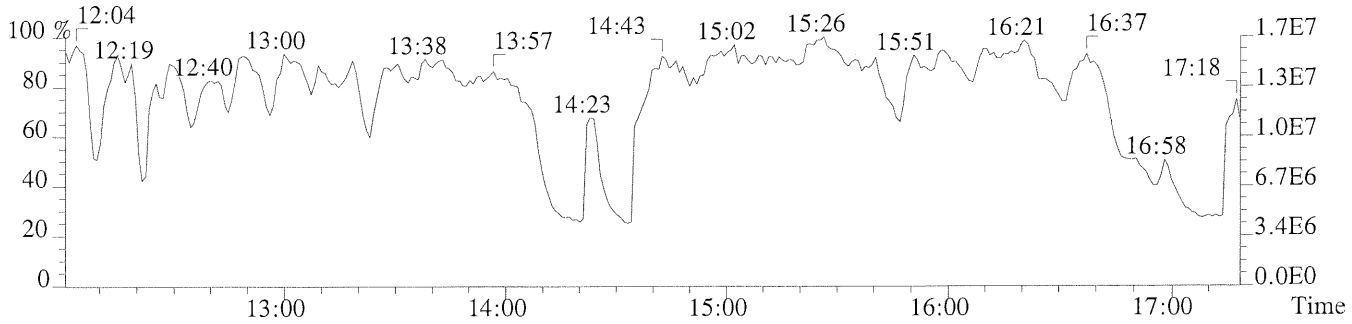
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1108.0,1.00%,F,T)



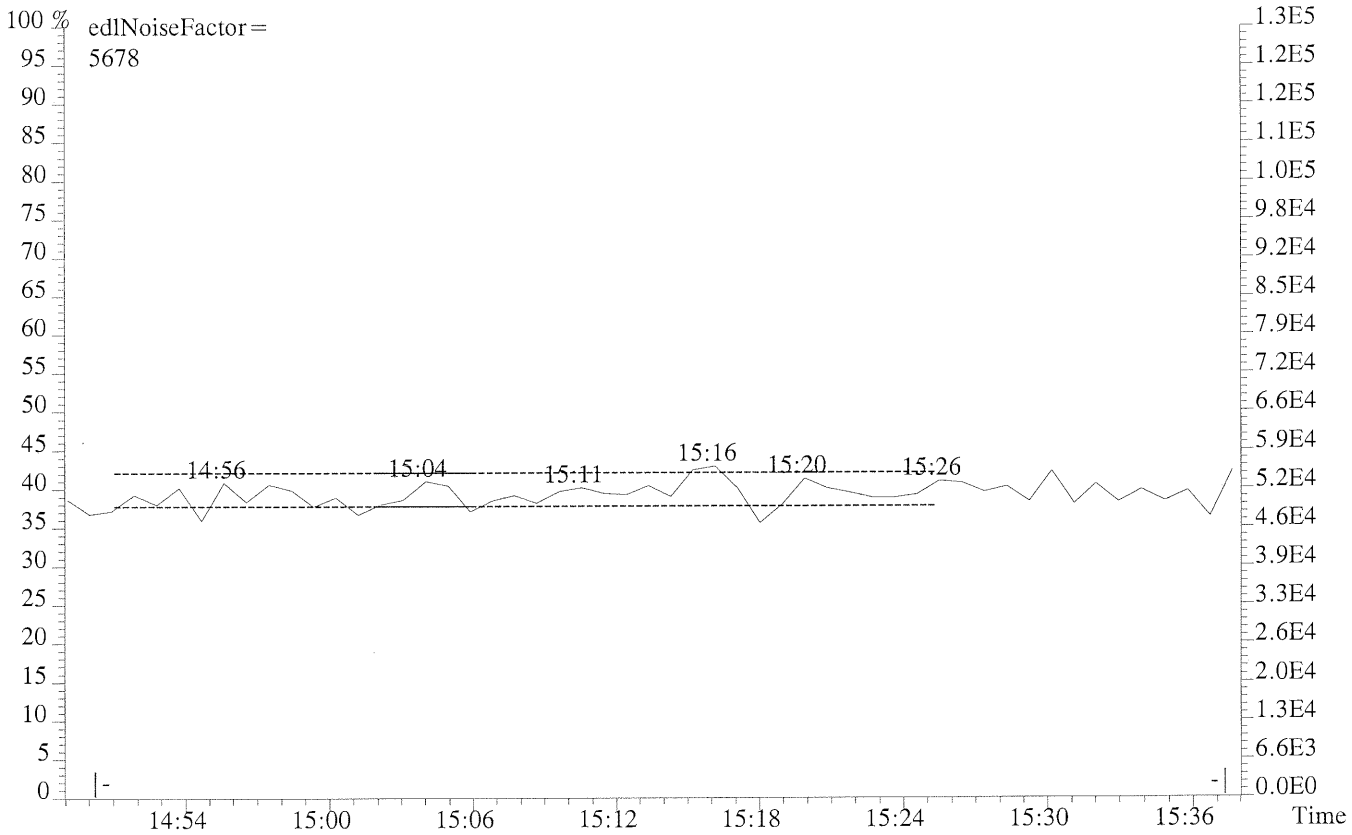
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1296.0,1.00%,F,T)



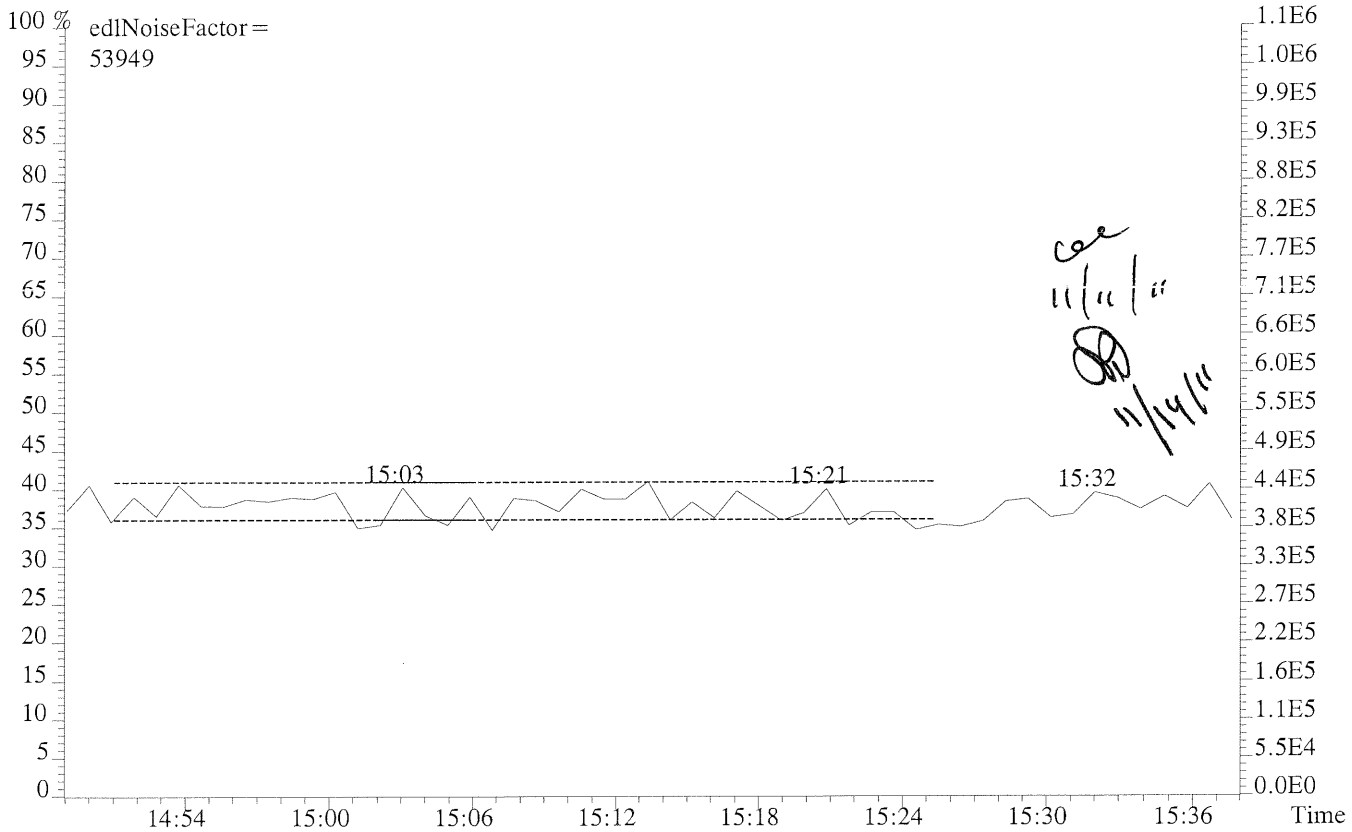
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142055 #1-341 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS
222.0003

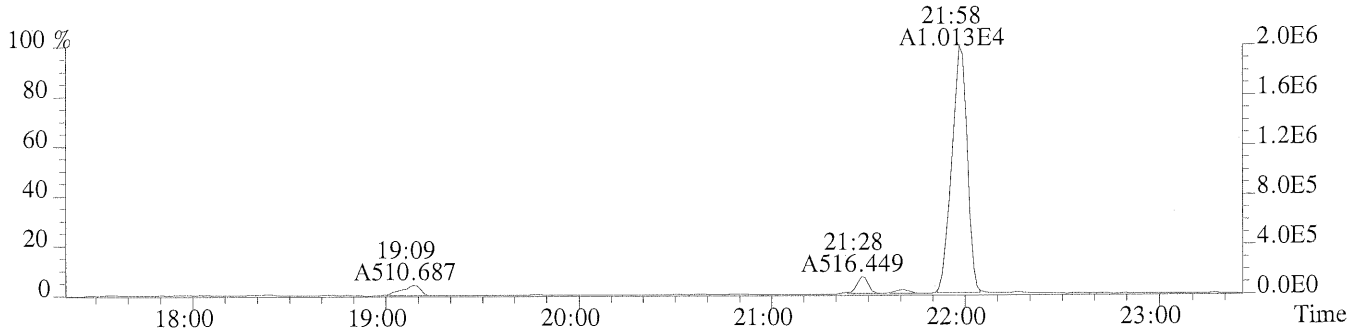


223.9974

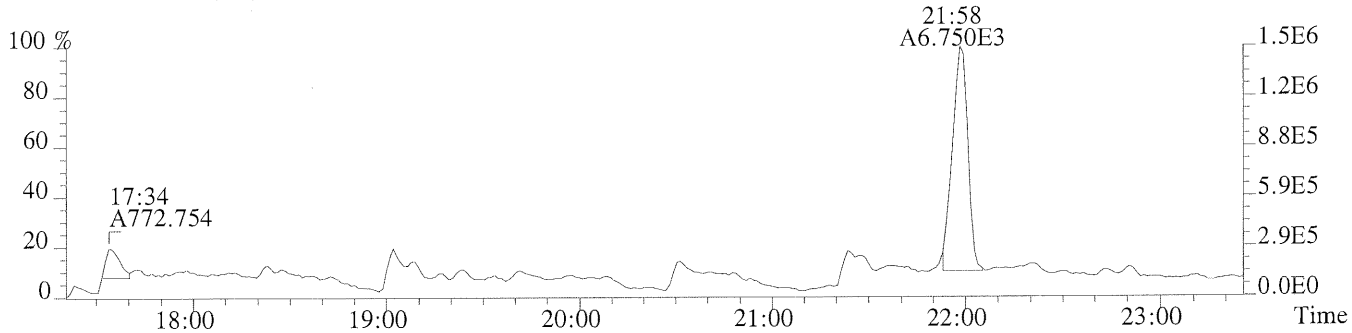


File:U142055 #1-336 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

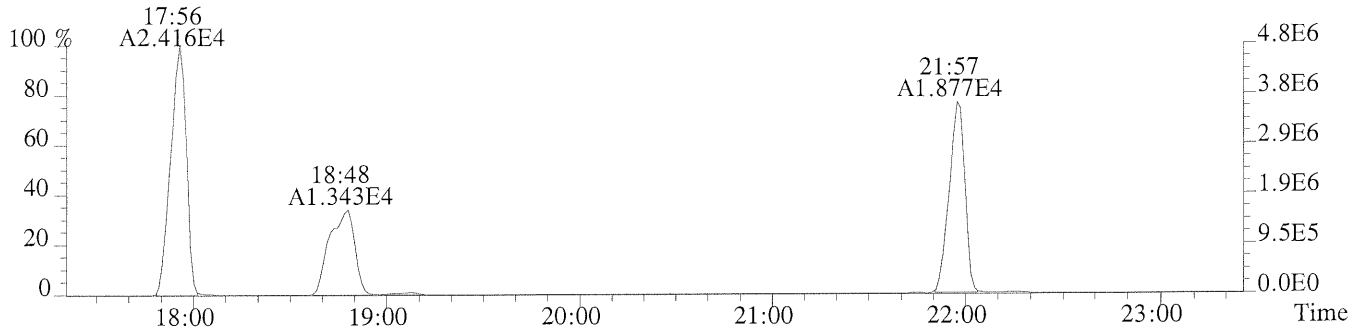
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7360.0,1.00%,F,T)



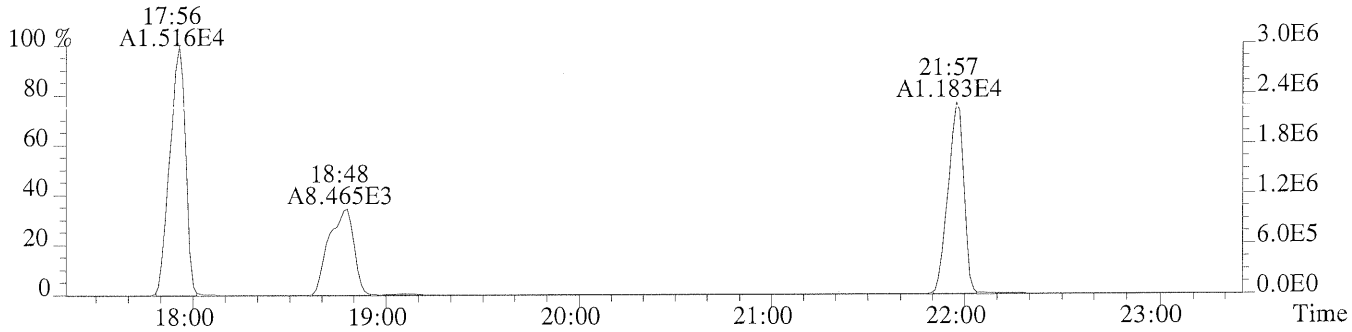
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,161996.0,1.00%,F,T)



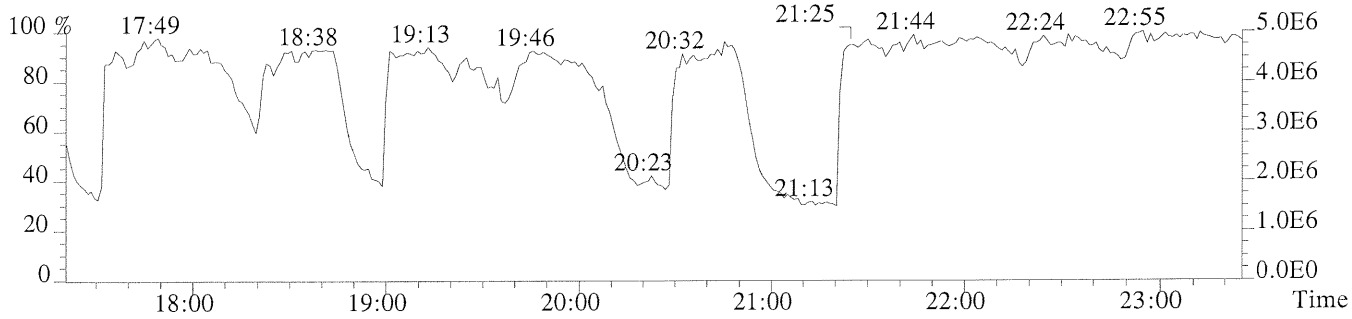
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2064.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,572.0,1.00%,F,T)

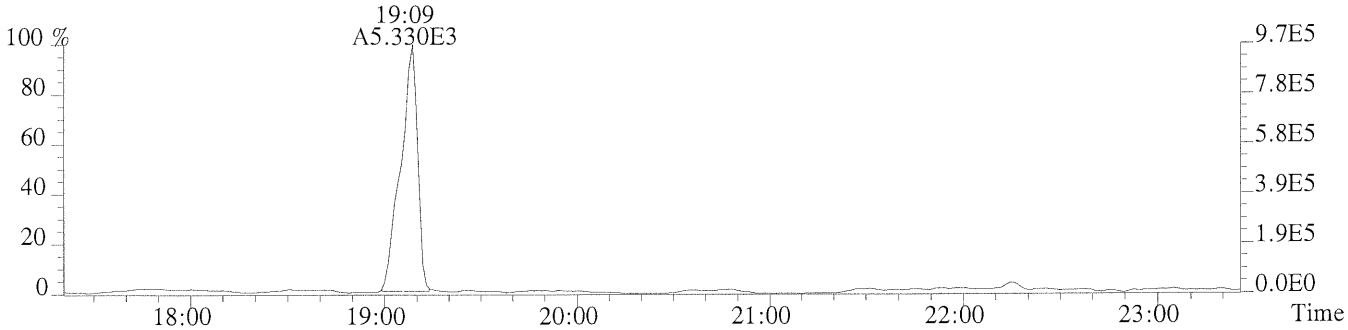


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

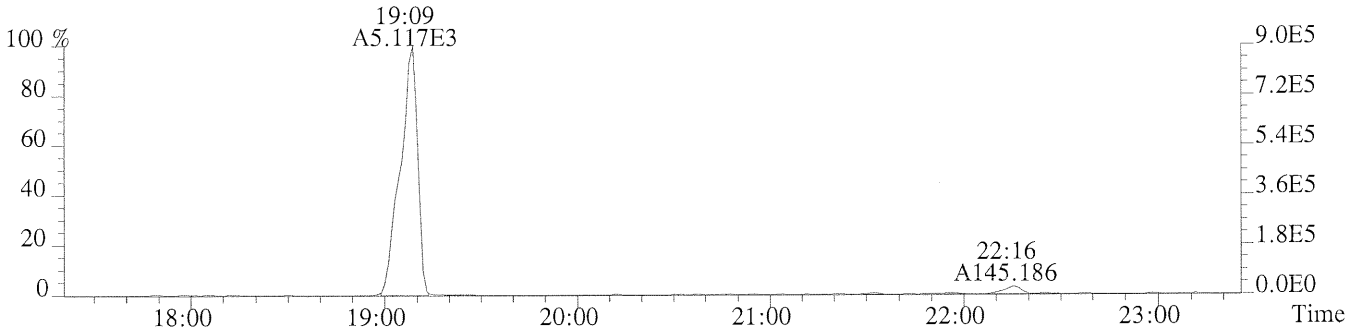


File:U142055 #1-336 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

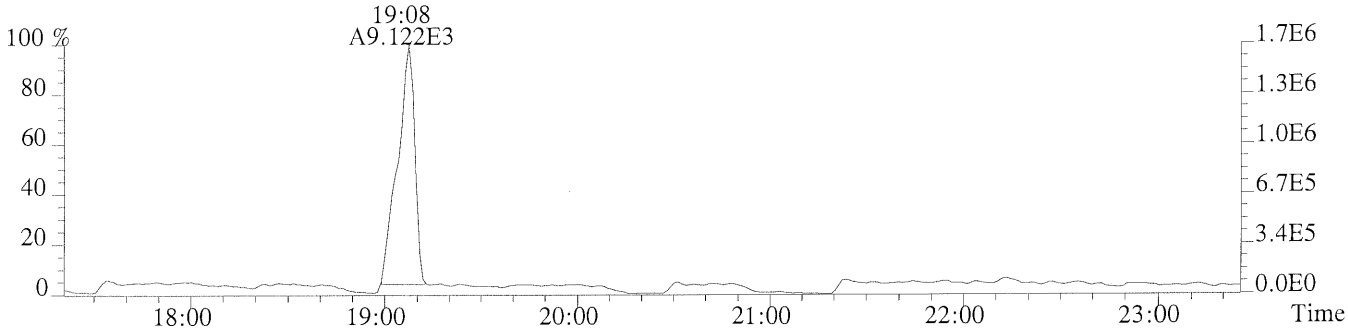
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,15340.0,1.00%,F,T)



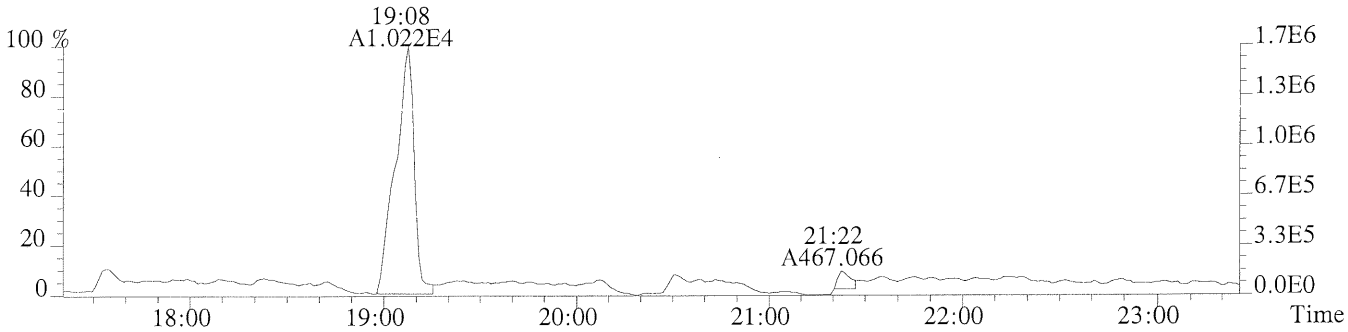
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)



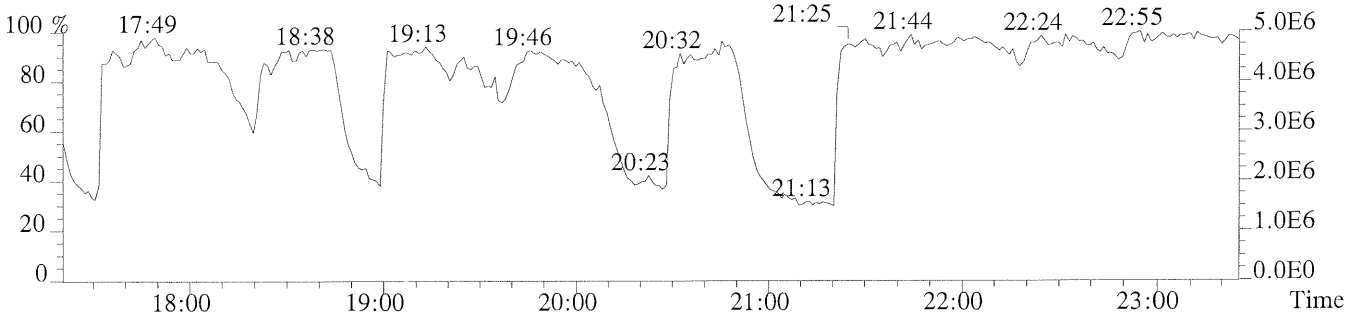
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,77944.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,105472.0,1.00%,F,T)

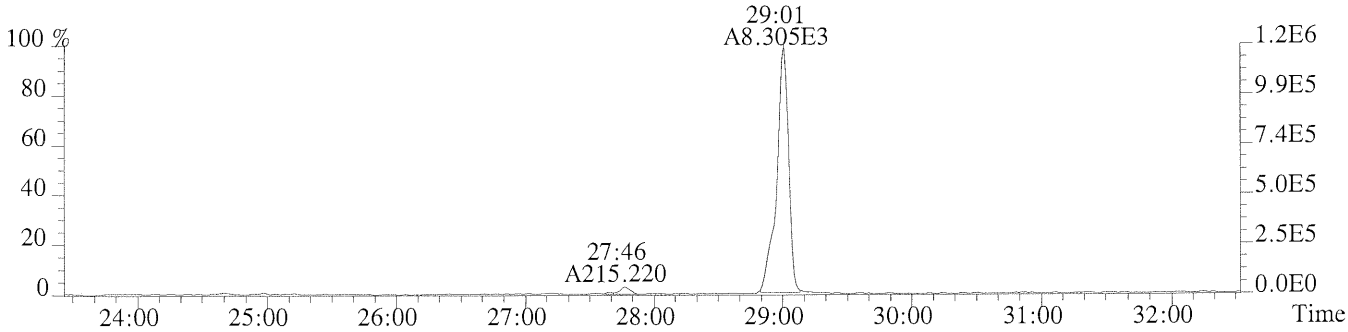


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

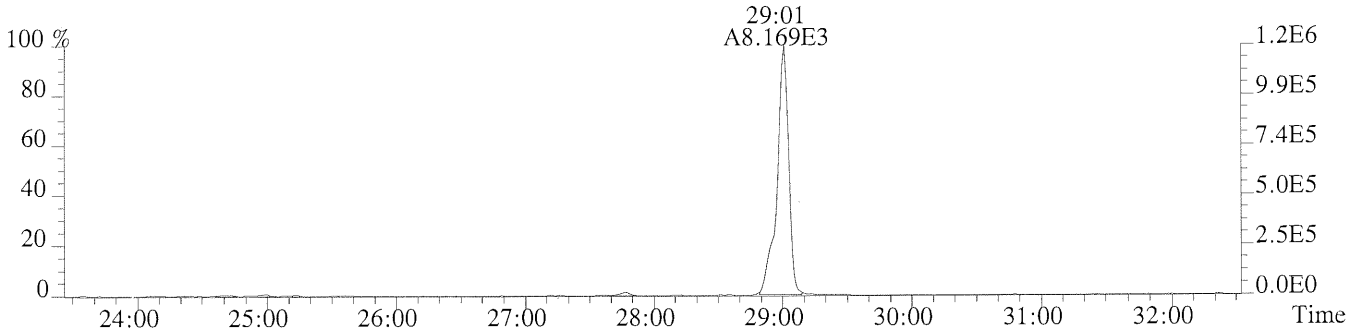


File:U142055 #1-582 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

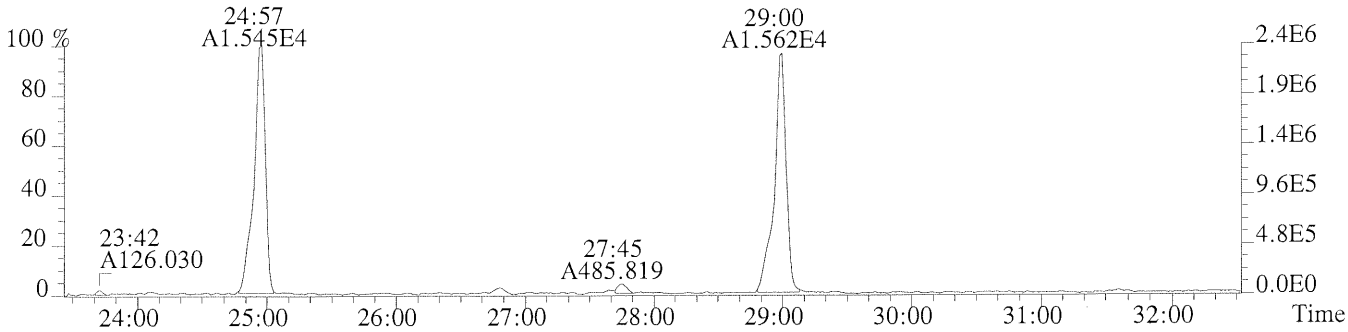
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5728.0,1.00%,F,T)



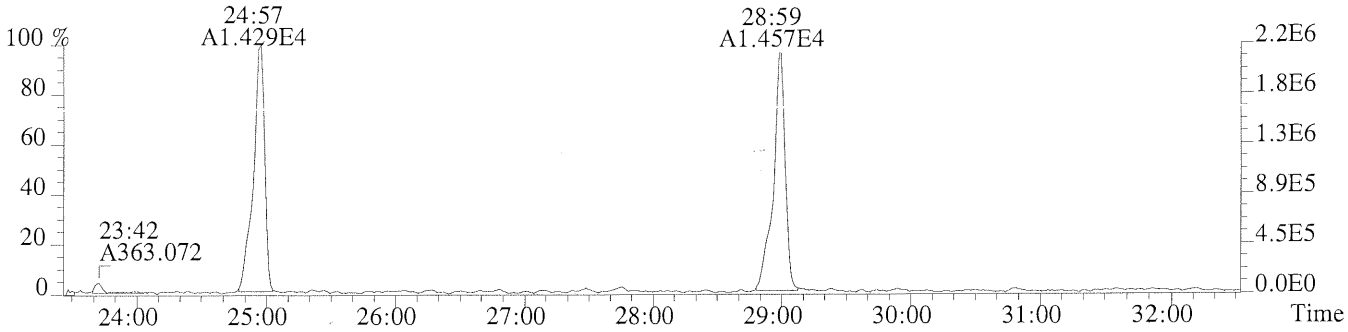
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1516.0,1.00%,F,T)



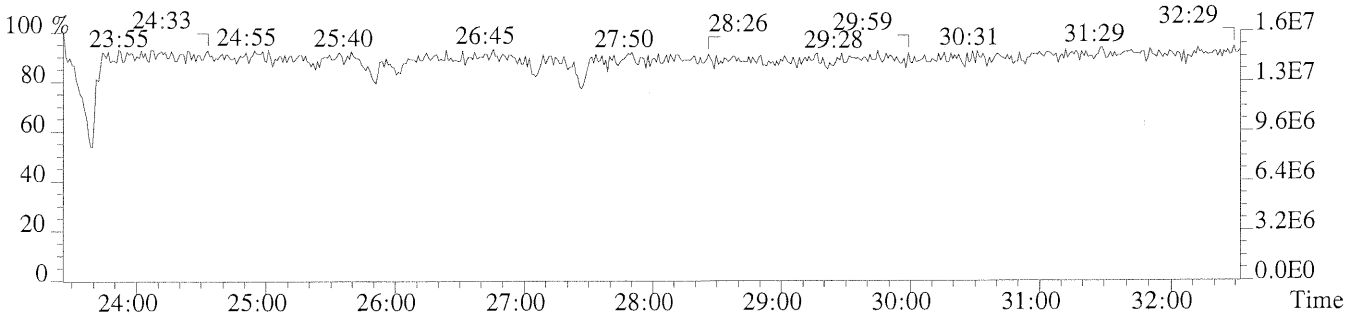
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,26940.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,32516.0,1.00%,F,T)

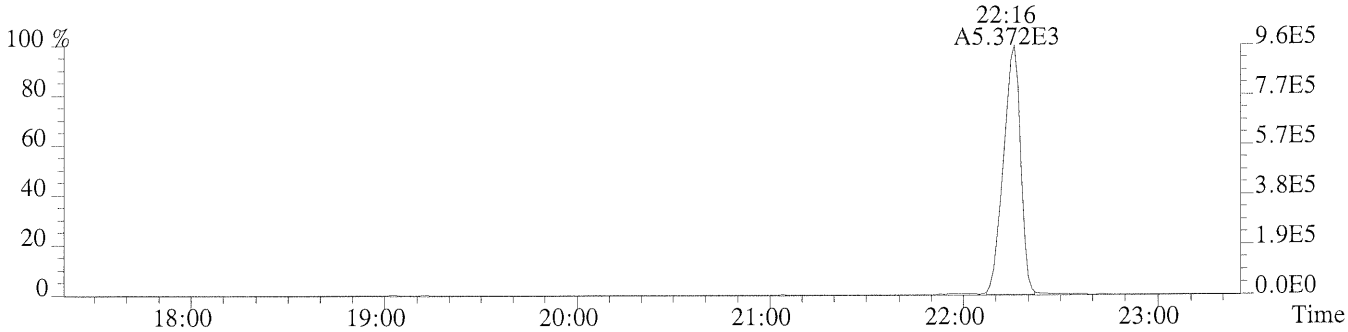


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

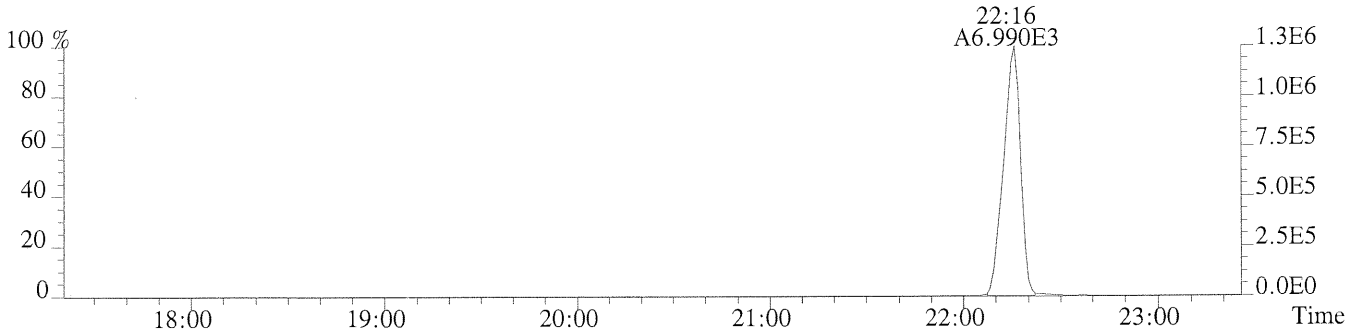


File:U142055 #1-336 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

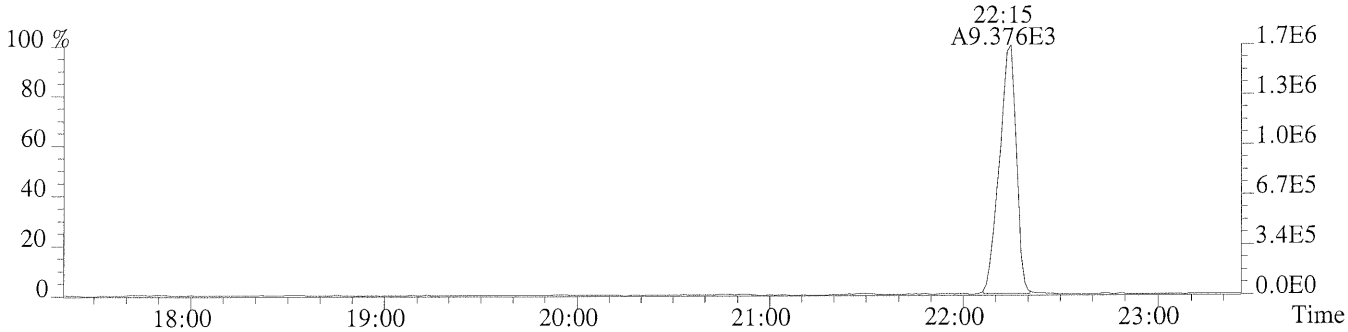
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,816.0,1.00%,F,T)



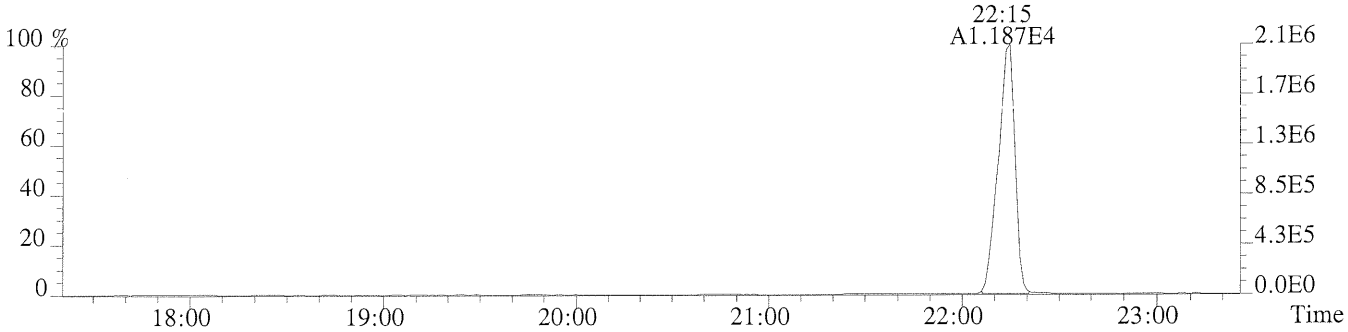
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)



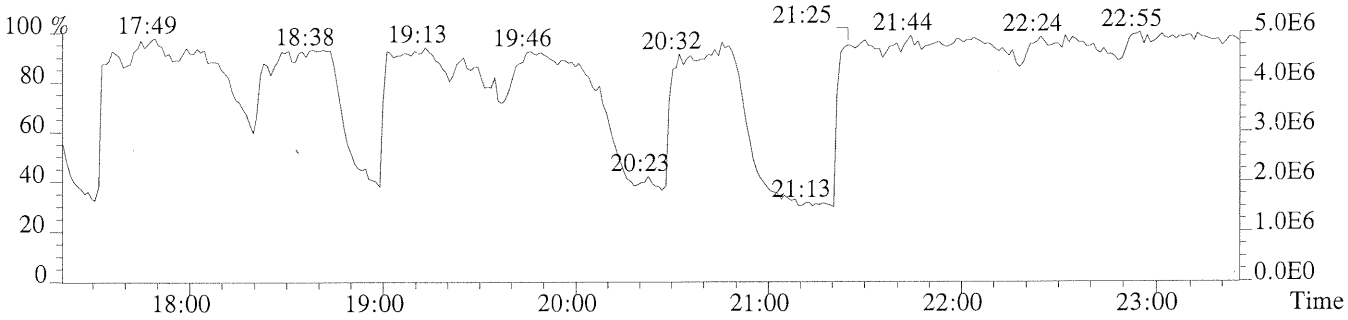
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6628.0,1.00%,F,T)



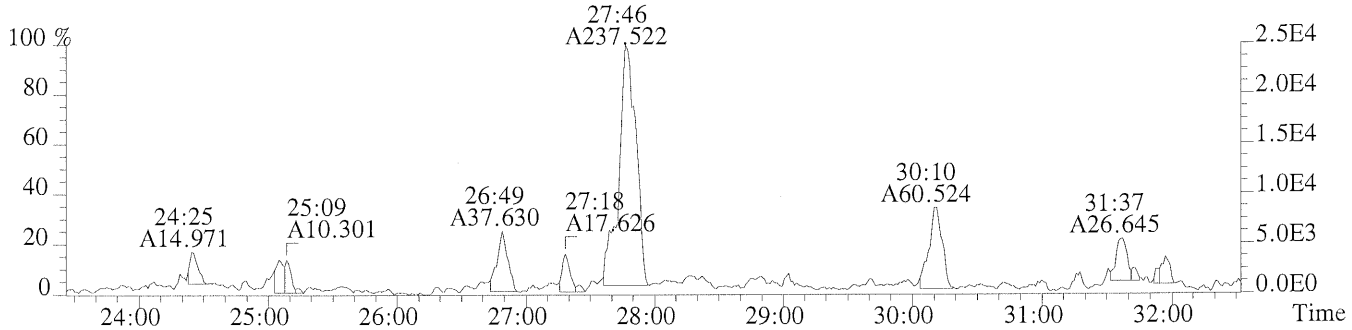
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3340.0,1.00%,F,T)



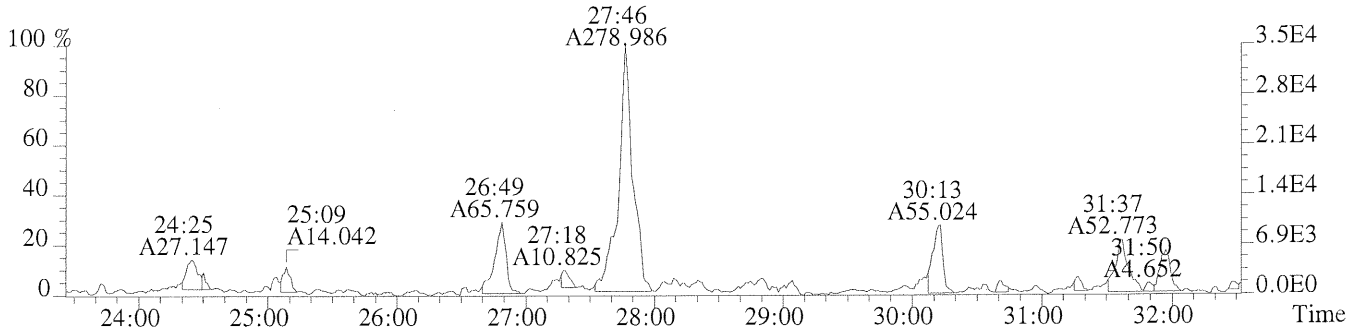
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



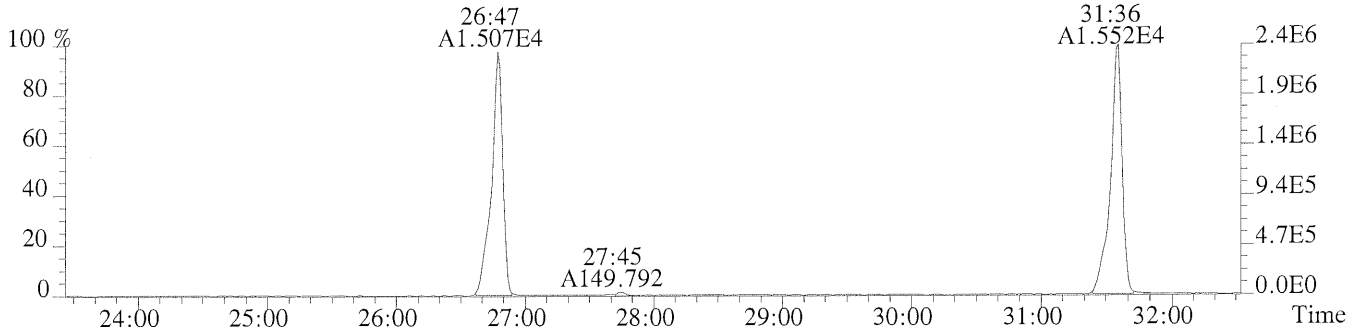
File:U142055 #1-582 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



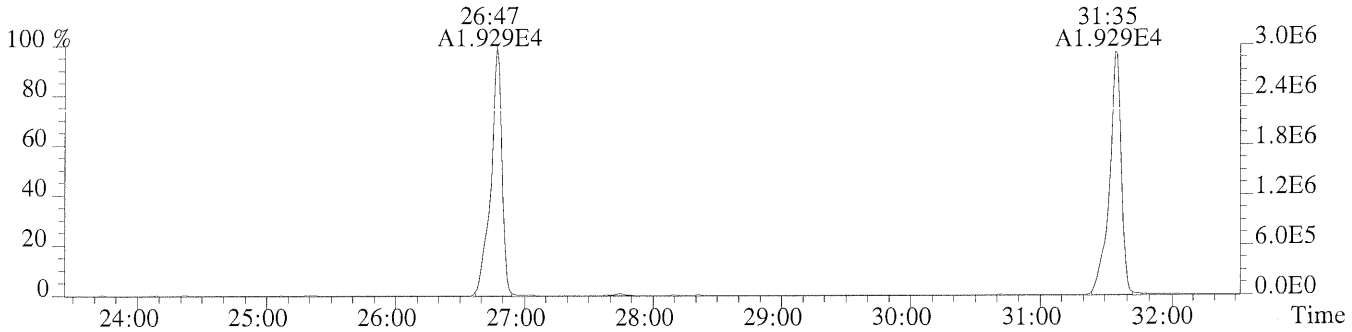
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)



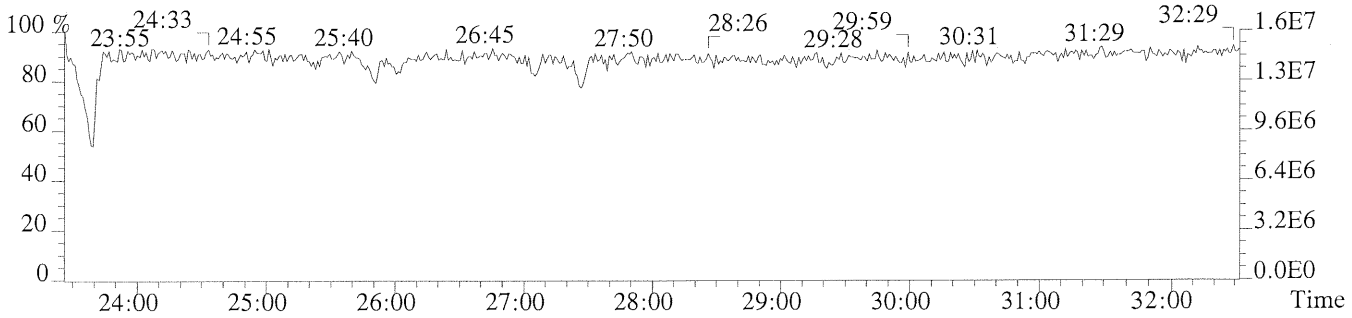
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5024.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2824.0,1.00%,F,T)

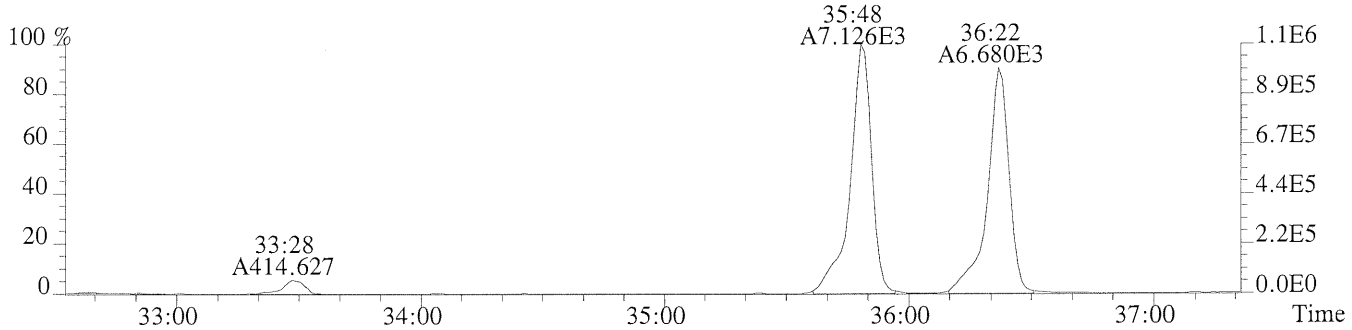


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

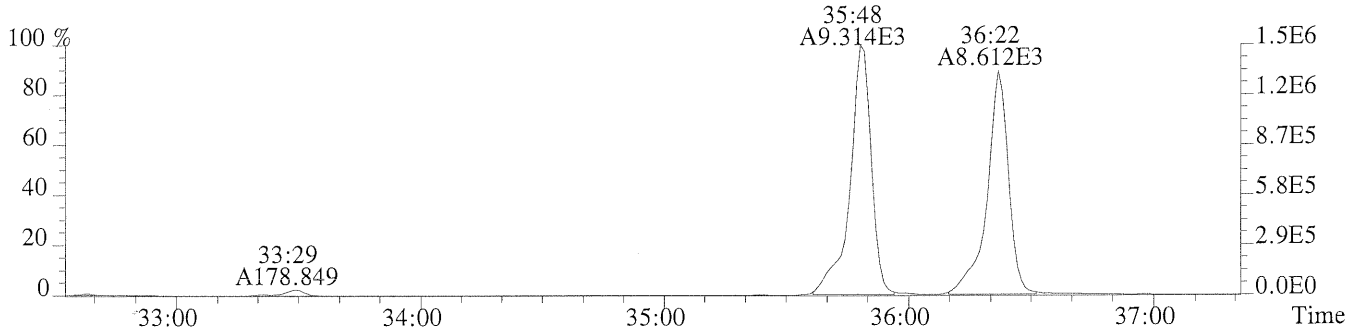


File:U142055 #1-308 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

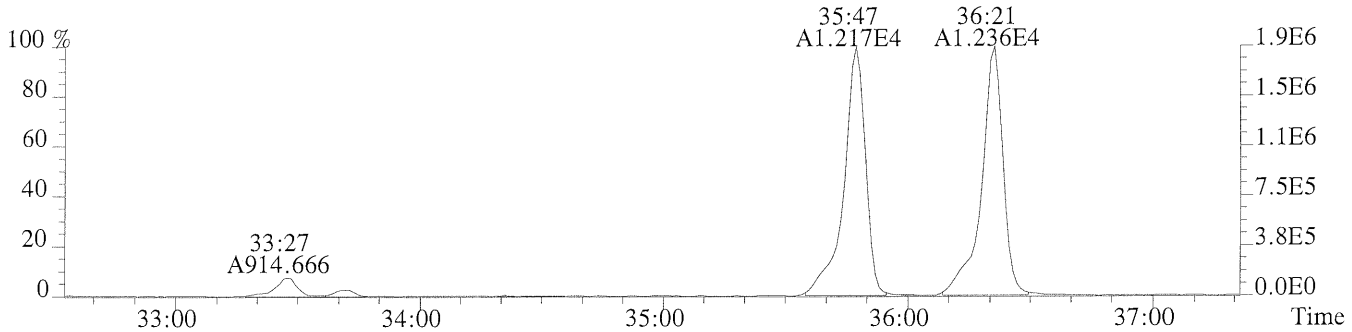
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1256.0,1.00%,F,T)



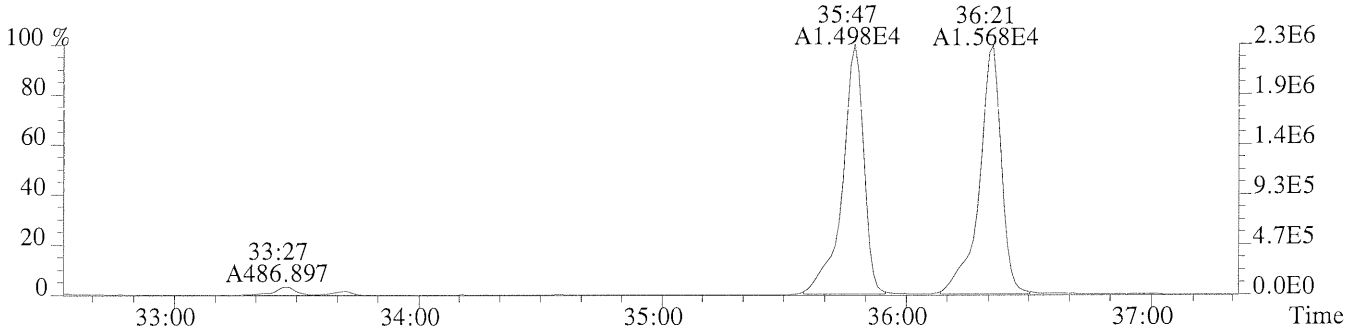
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,920.0,1.00%,F,T)



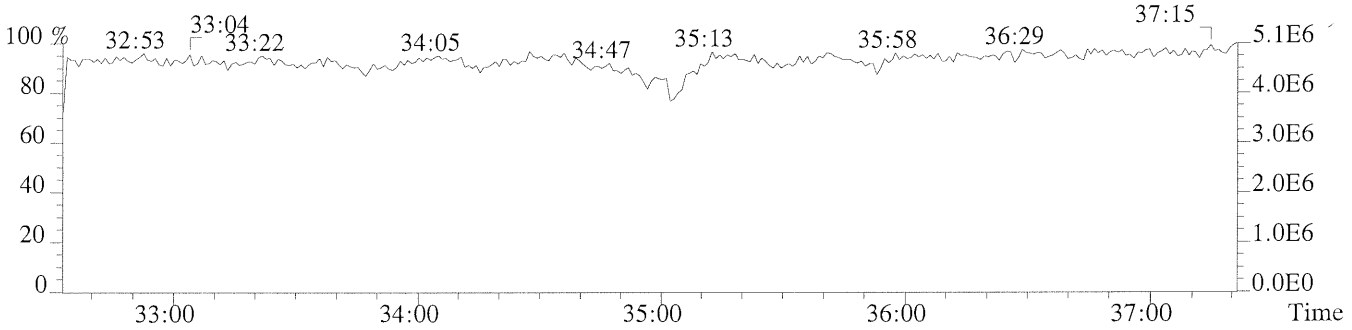
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4452.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2552.0,1.00%,F,T)

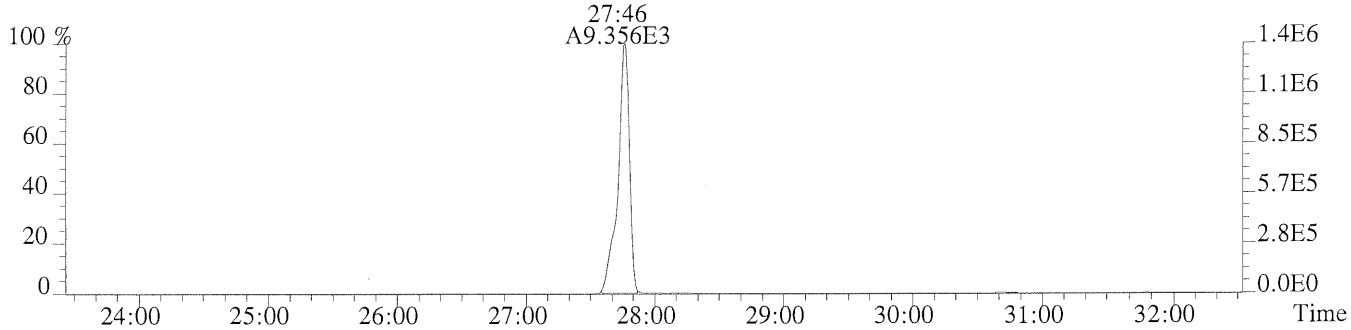


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

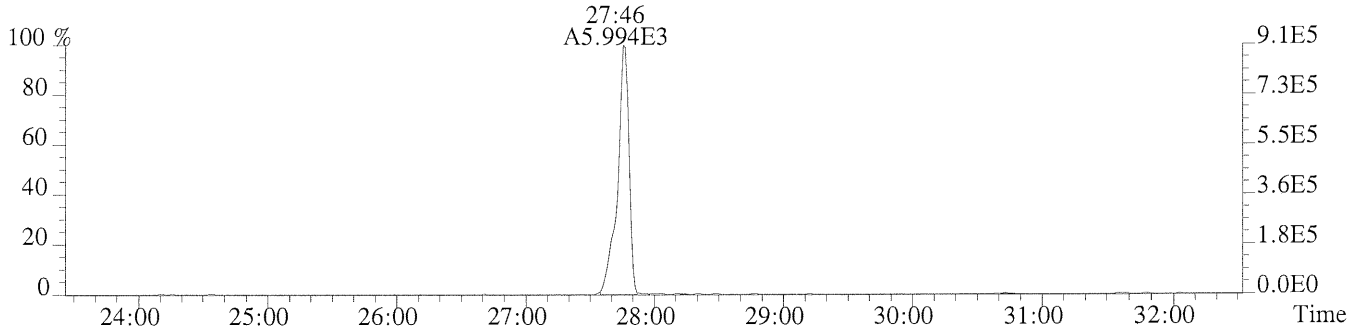


File:U142055 #1-582 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

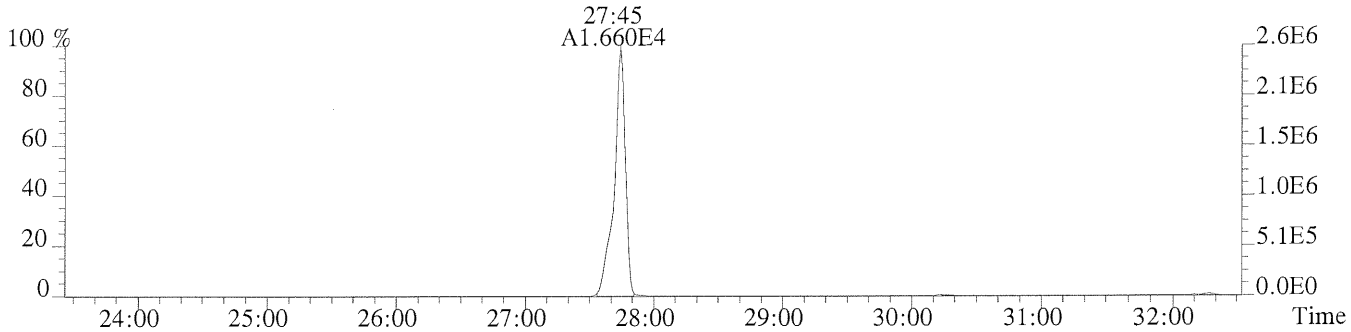
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)



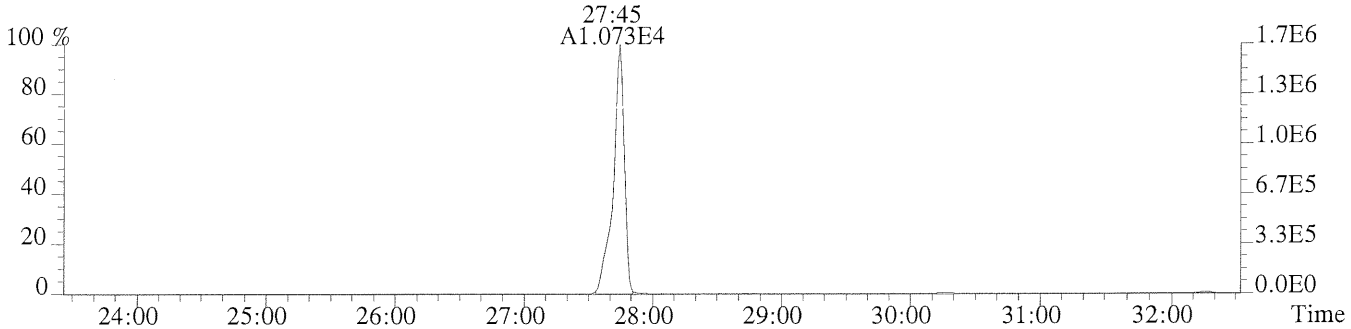
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,744.0,1.00%,F,T)



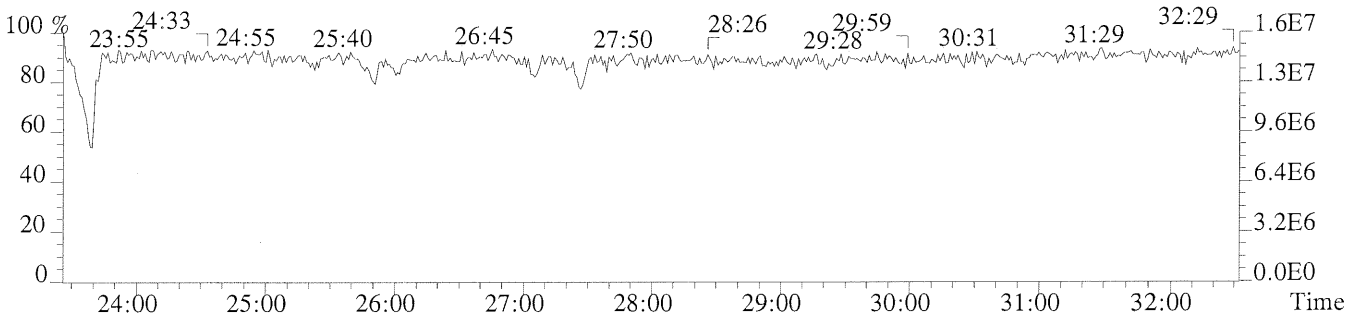
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1180.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)

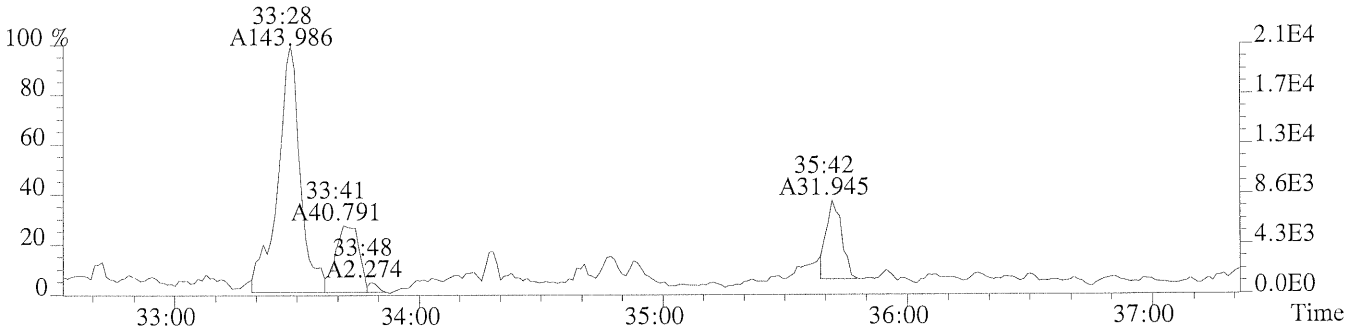


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

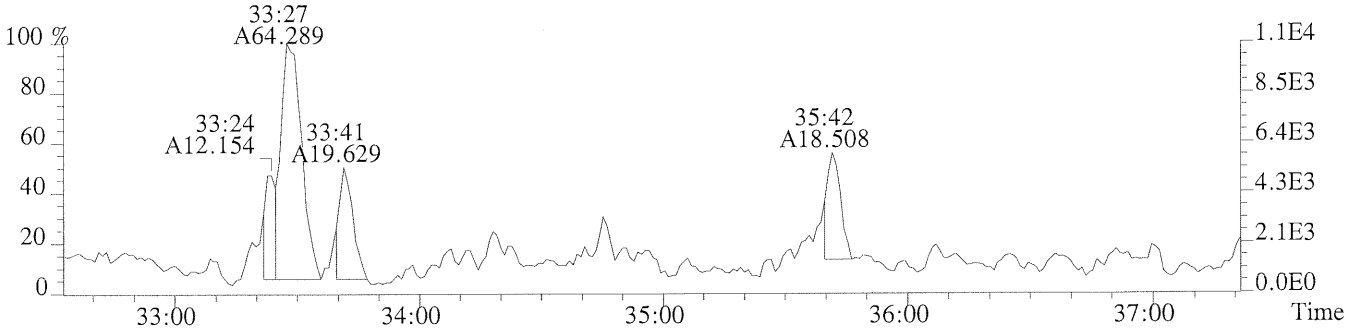


File:U142055 #1-308 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

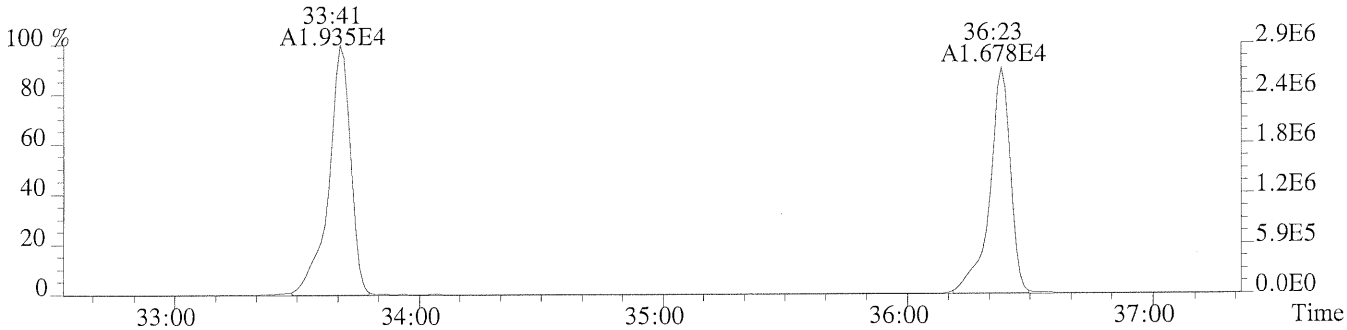
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1628.0,1.00%,F,T)



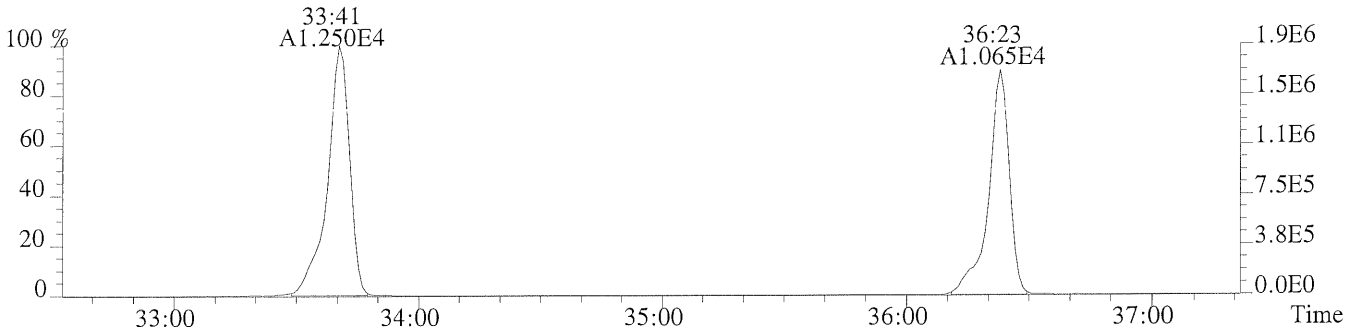
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1696.0,1.00%,F,T)



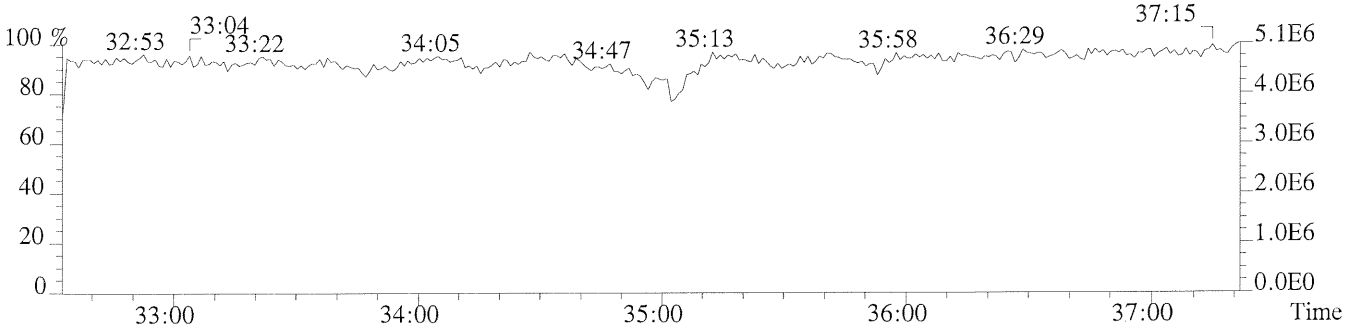
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1556.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1564.0,1.00%,F,T)

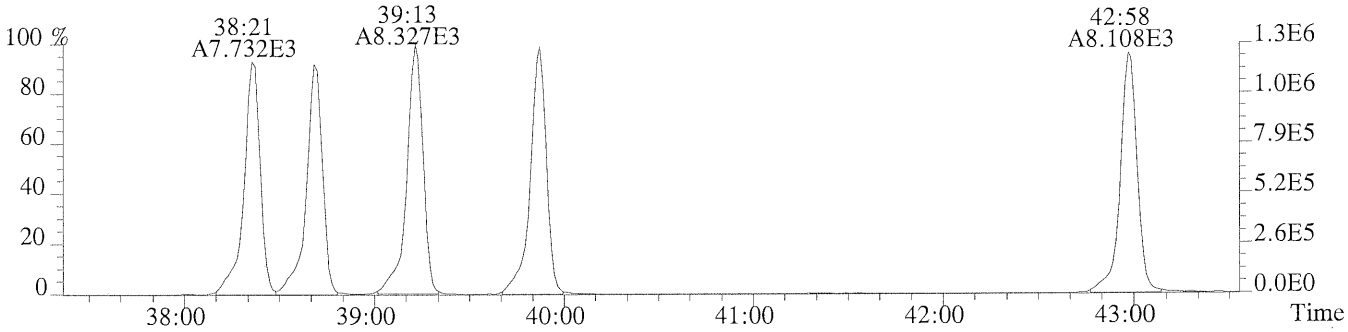


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

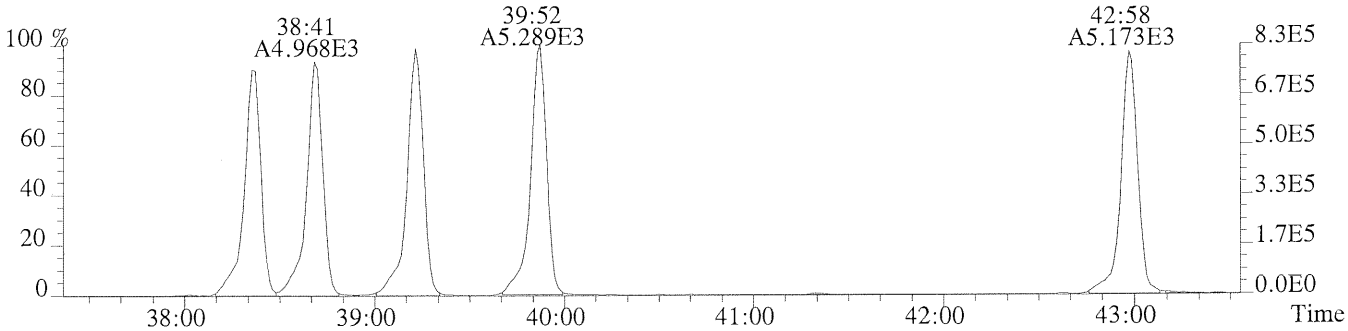


File:U142055 #1-396 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

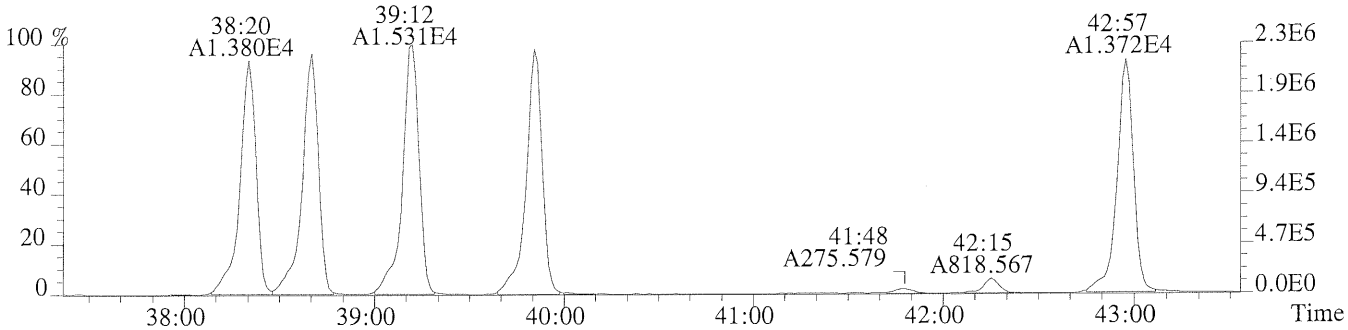
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1208.0,1.00%,F,T)



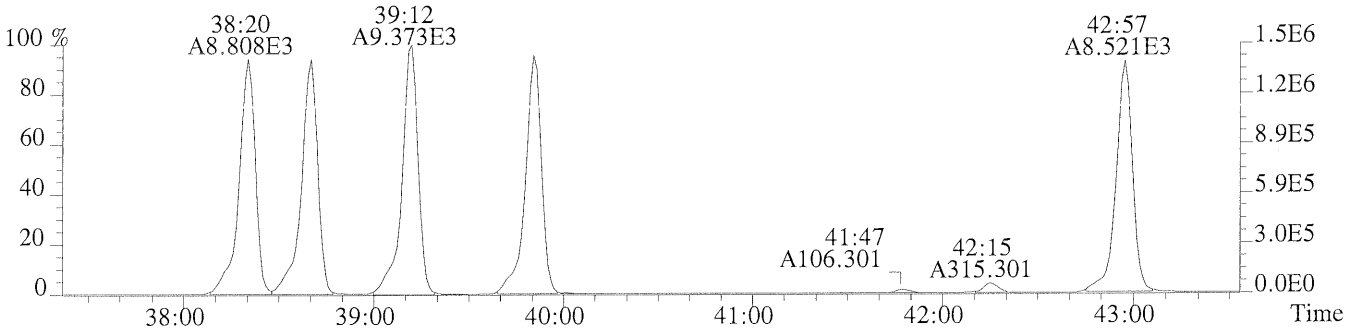
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



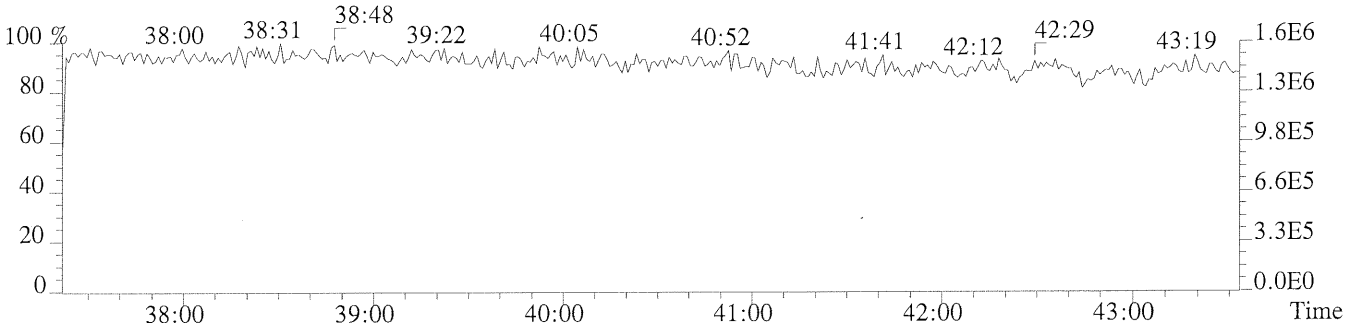
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3692.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4164.0,1.00%,F,T)

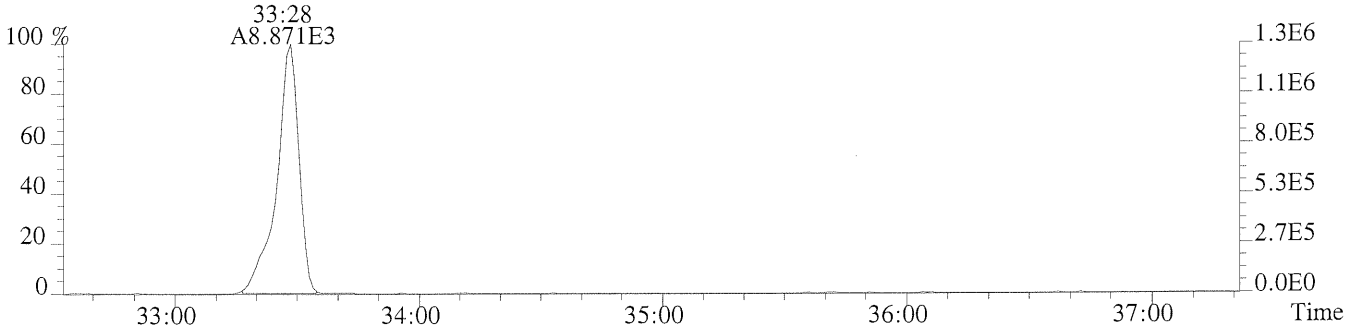


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

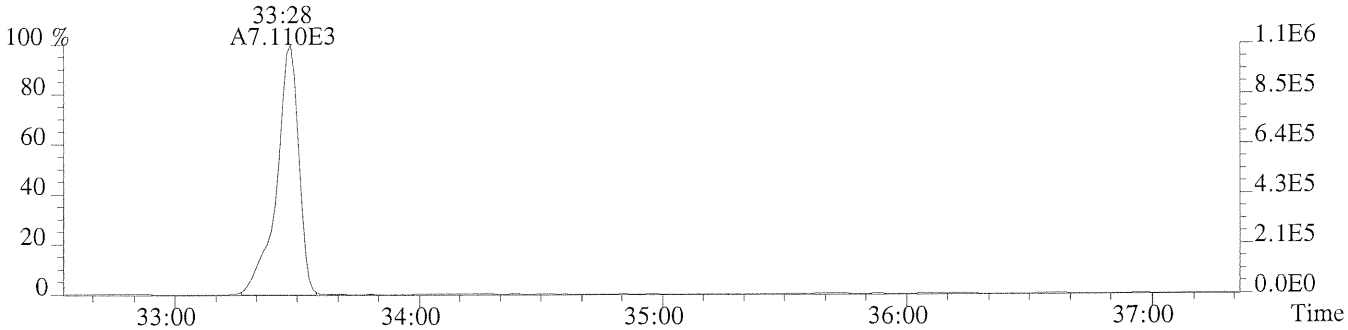


File:U142055 #1-308 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

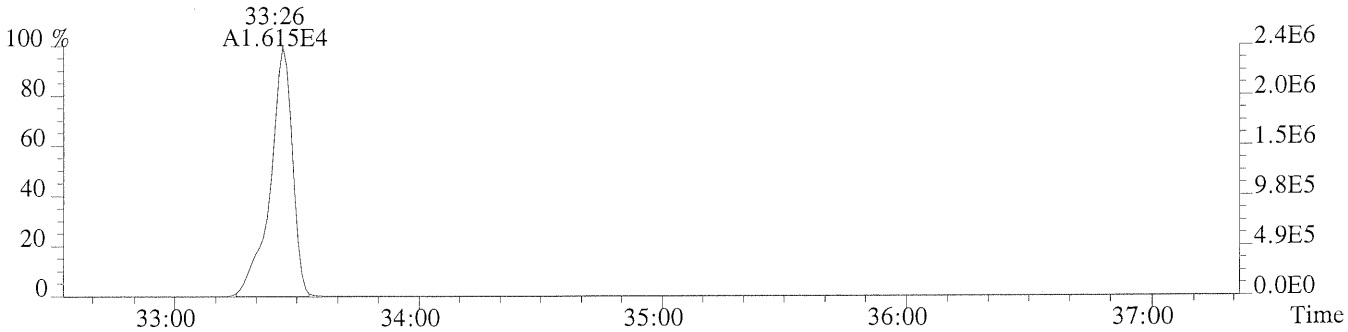
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1728.0,1.00%,F,T)



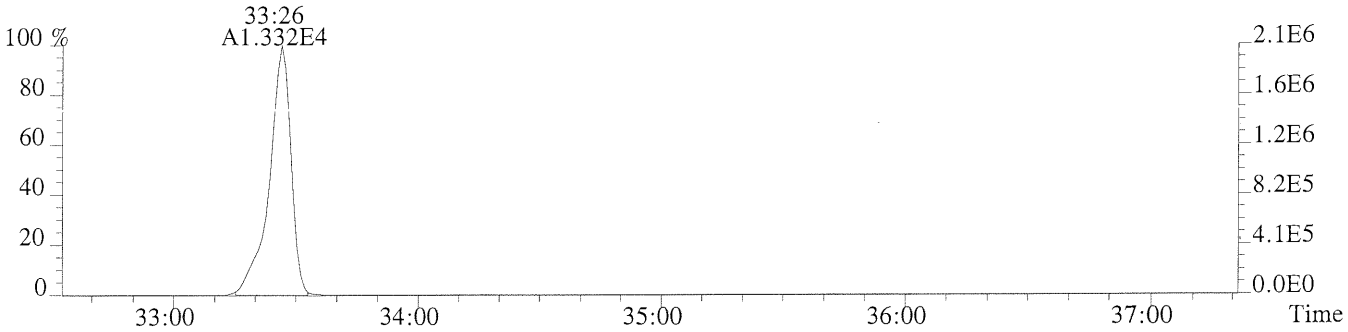
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1696.0,1.00%,F,T)



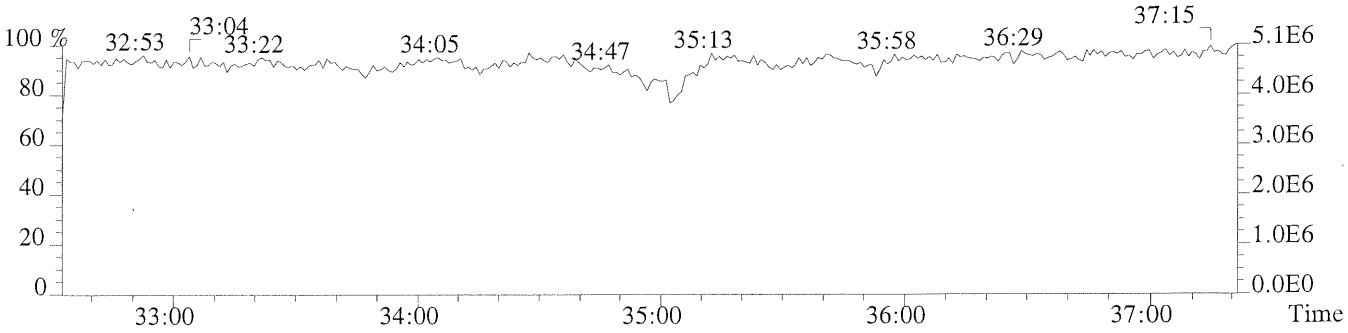
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1456.0,1.00%,F,T)

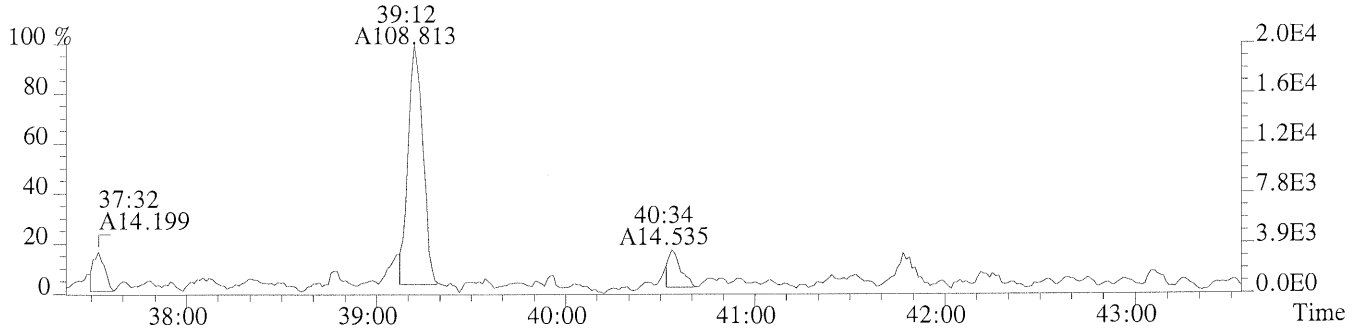


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

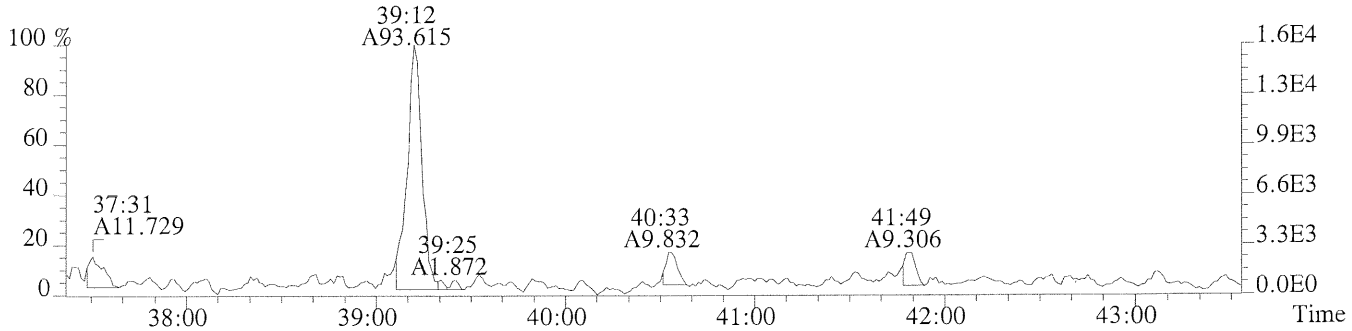


File:U142055 #1-396 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

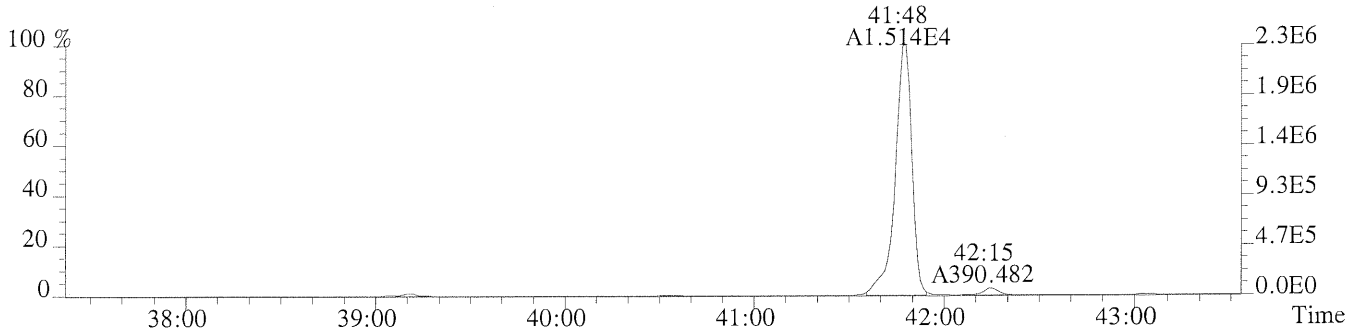
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1100.0,1.00%,F,T)



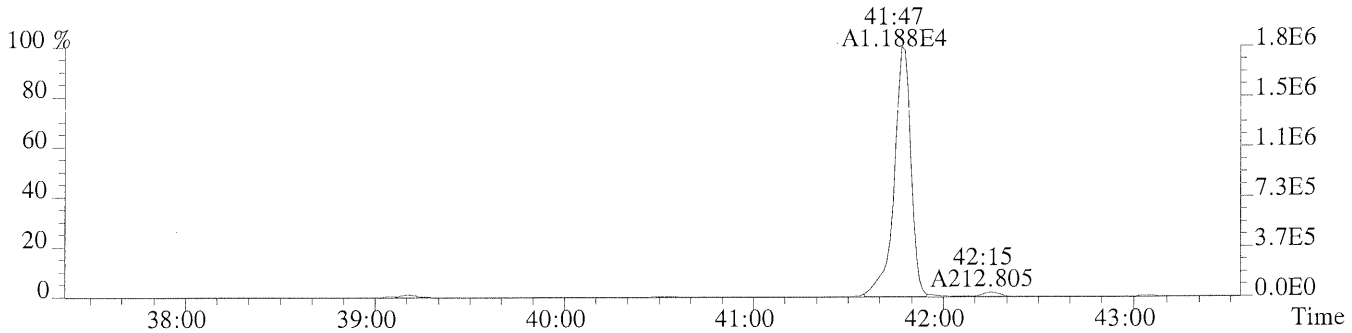
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)



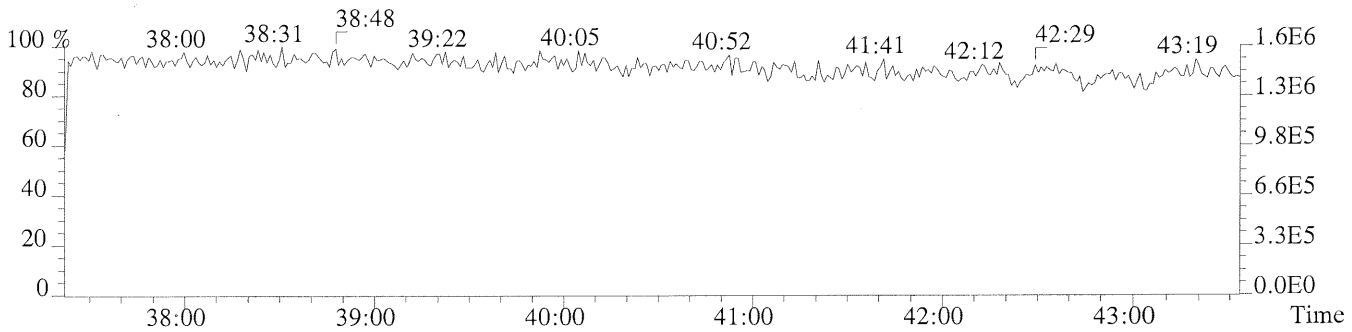
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,800.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)

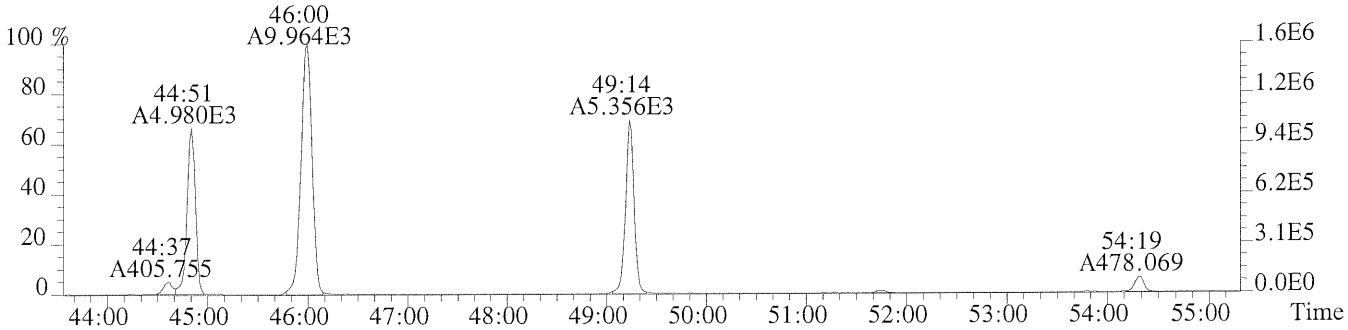


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

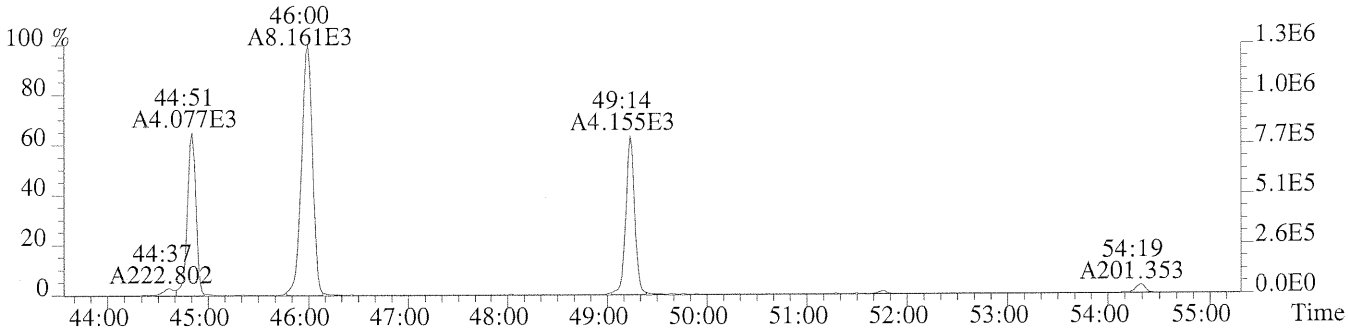


File:U142055 #1-582 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

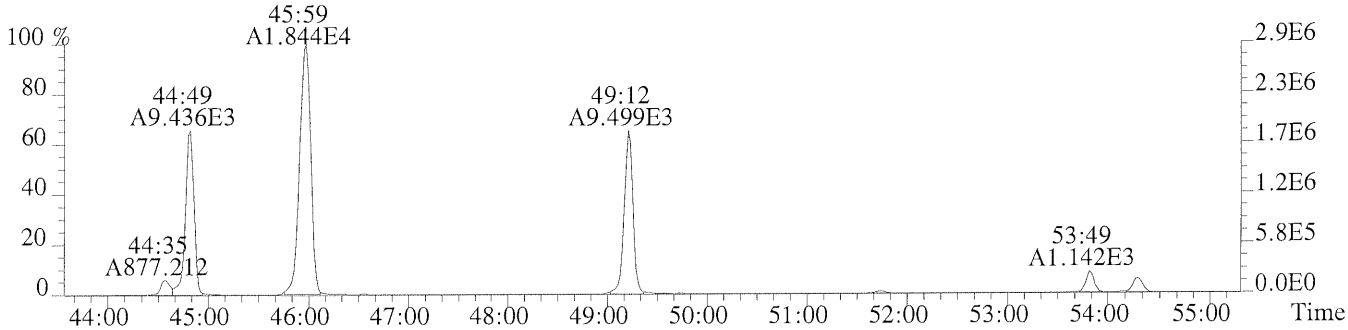
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1168.0,1.00%,F,T)



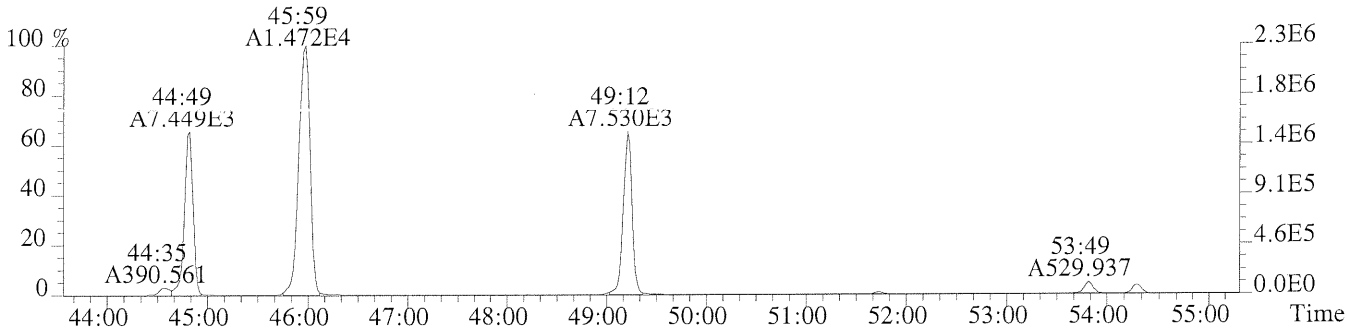
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



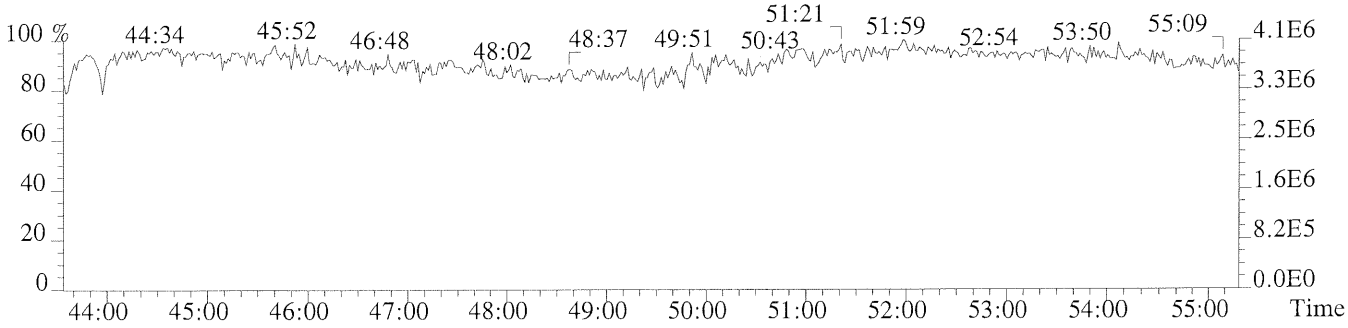
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3008.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,424.0,1.00%,F,T)

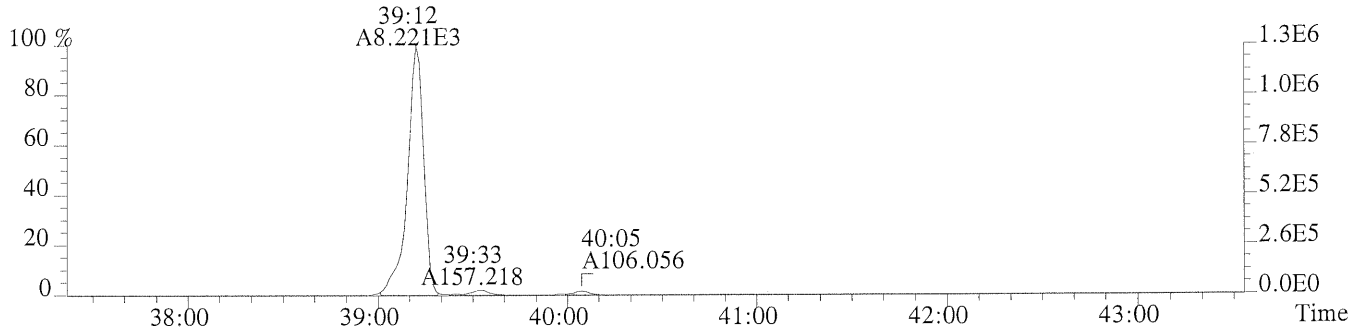


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

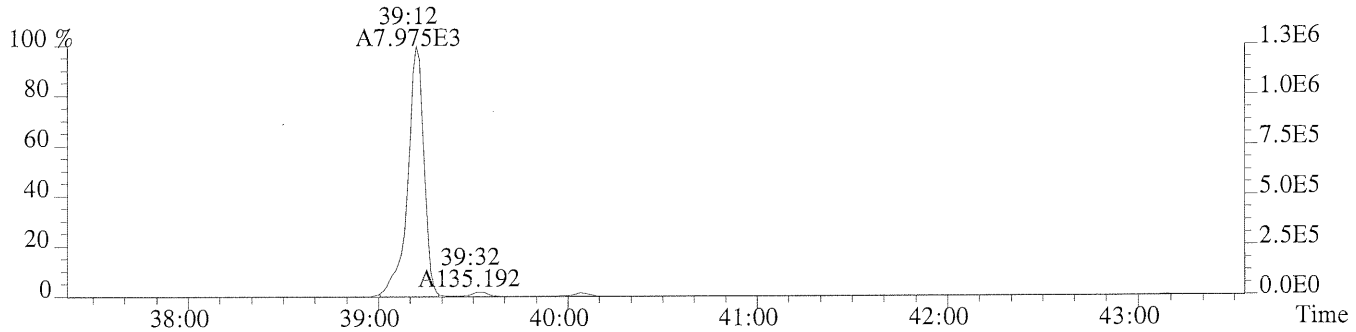


File:U142055 #1-396 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

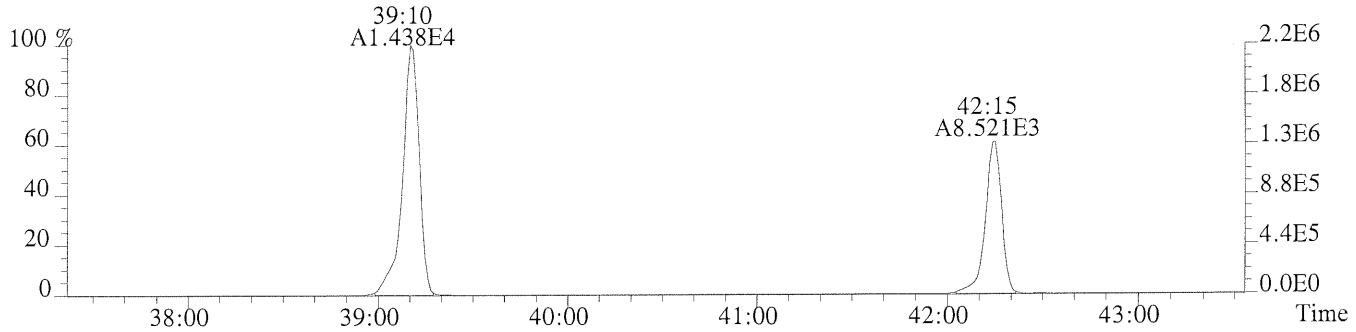
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



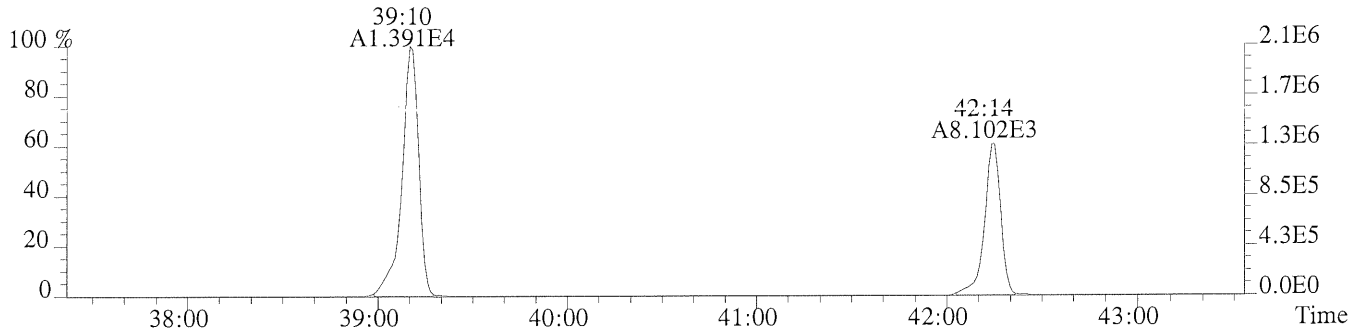
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,628.0,1.00%,F,T)



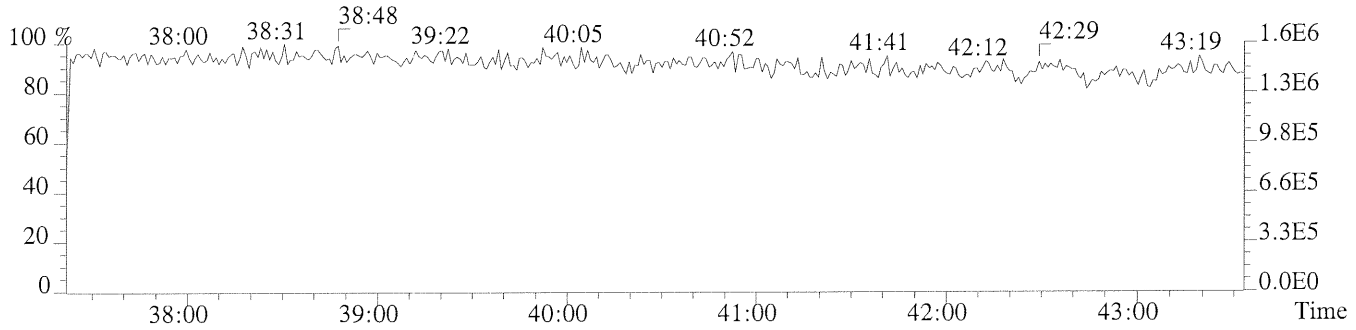
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,744.0,1.00%,F,T)

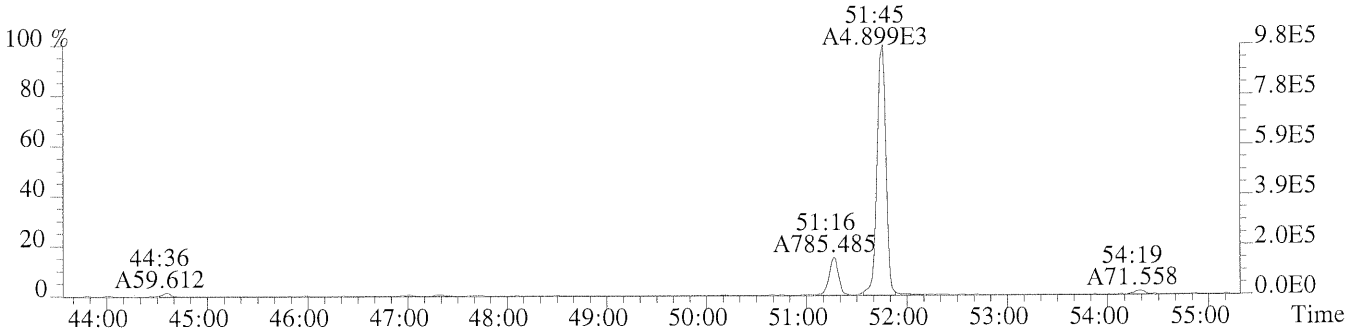


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

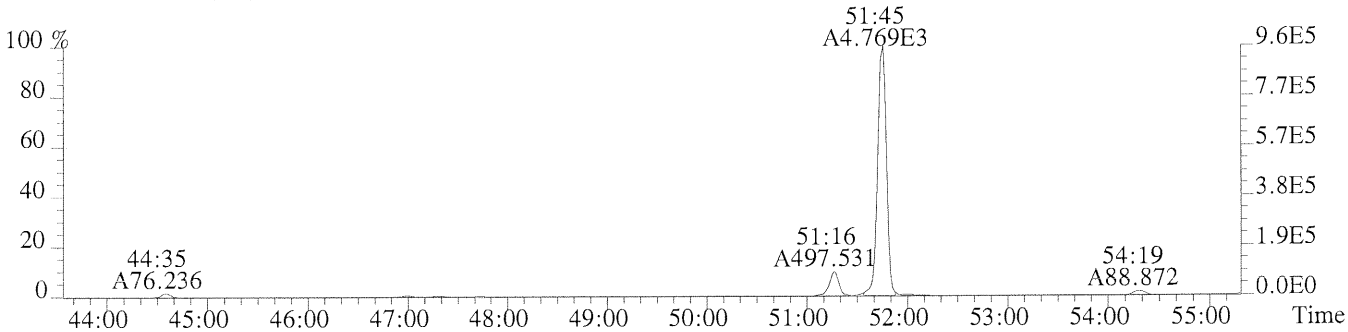


File:U142055 #1-582 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

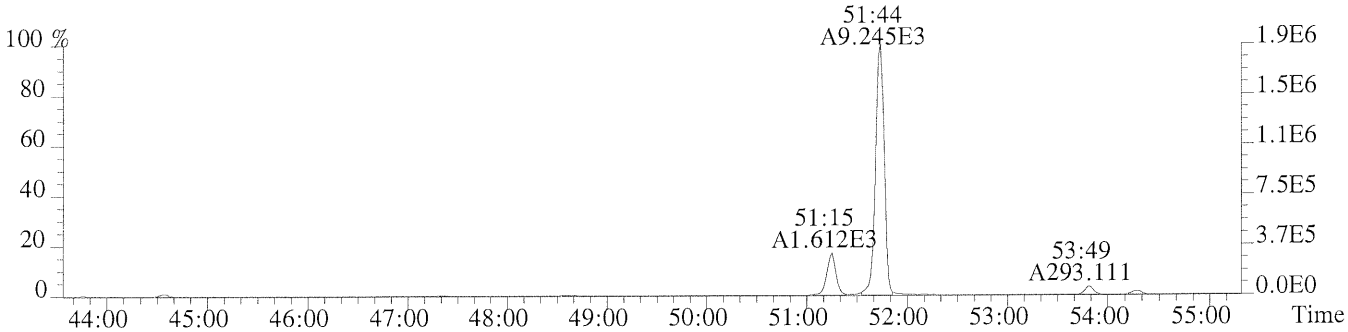
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)



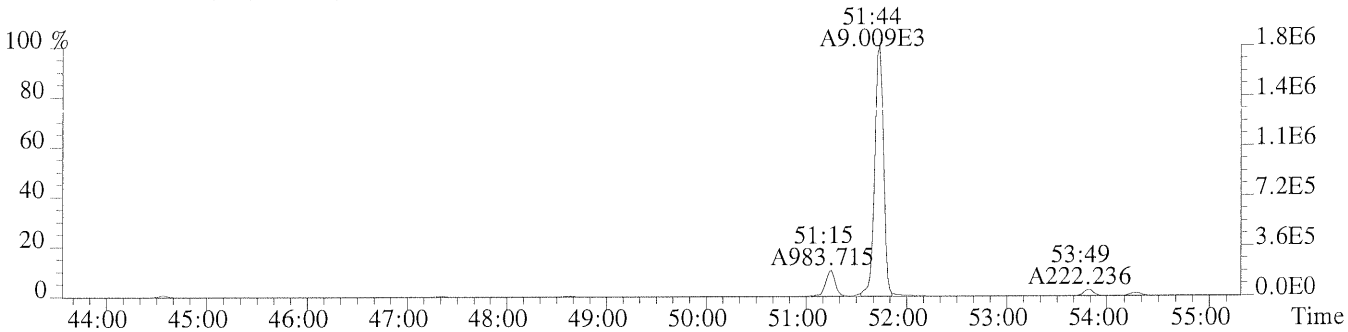
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,696.0,1.00%,F,T)



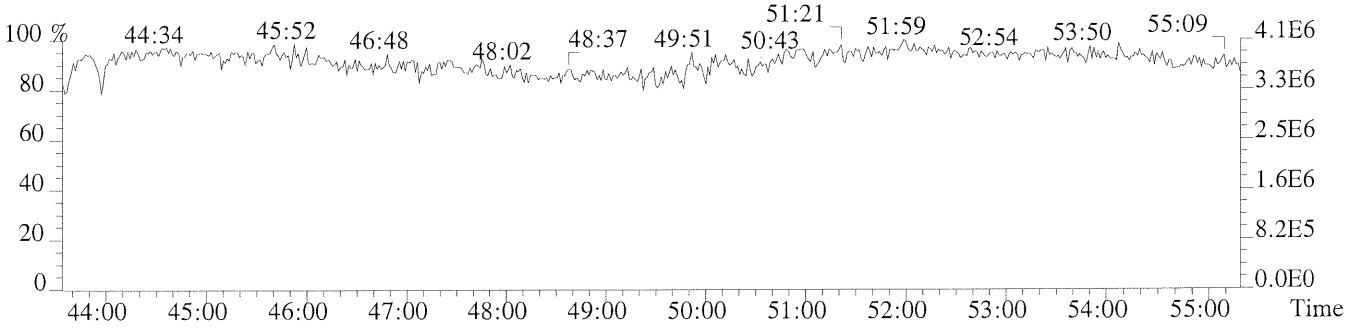
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1116.0,1.00%,F,T)



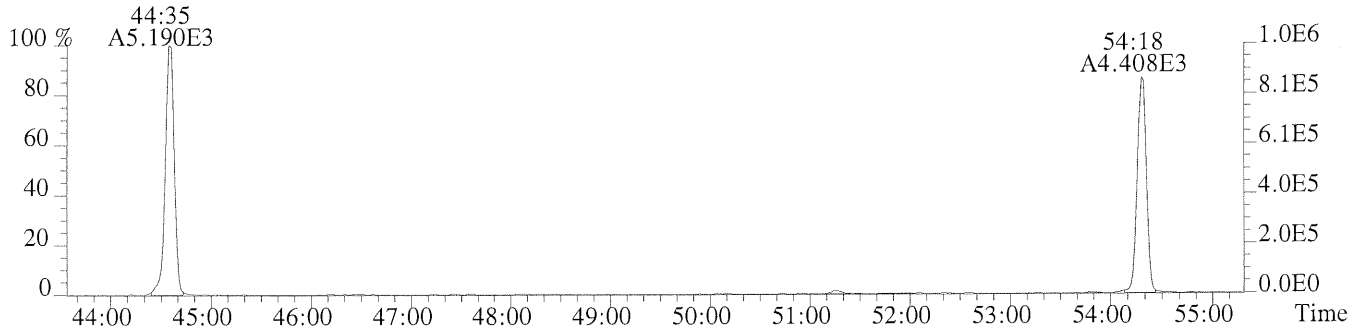
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,652.0,1.00%,F,T)



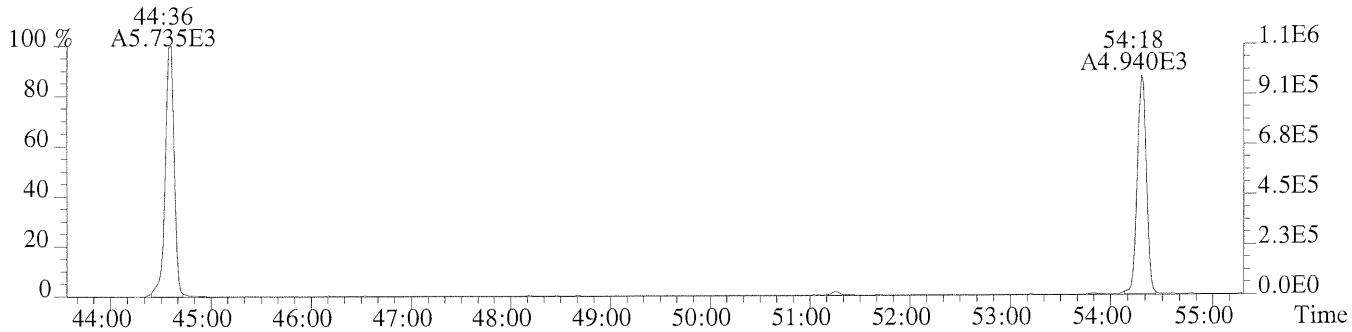
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



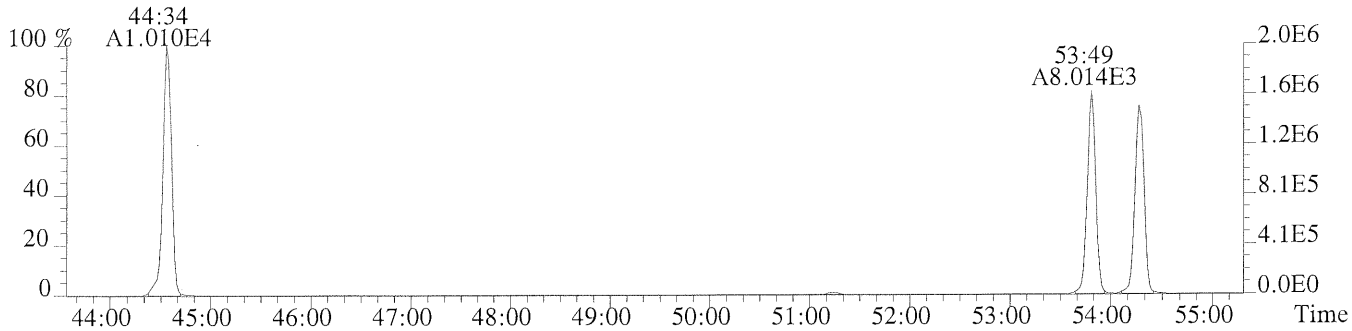
File:U142055 #1-582 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



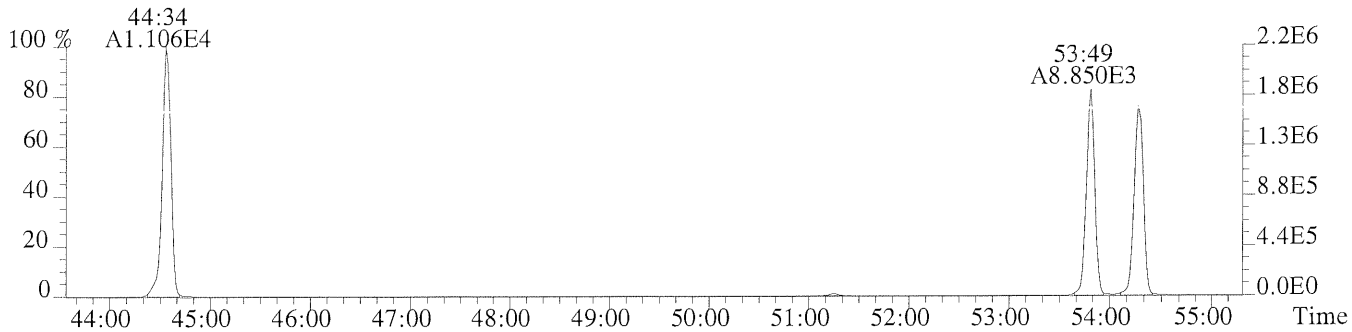
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)



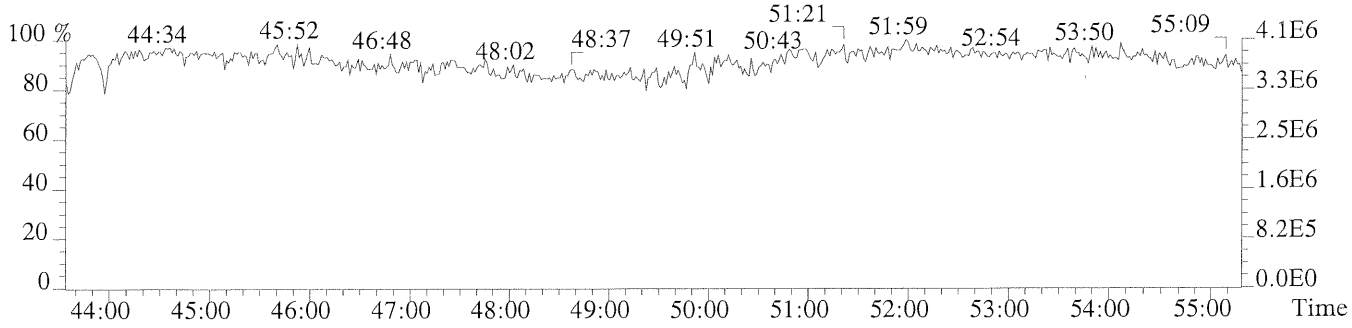
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,720.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)

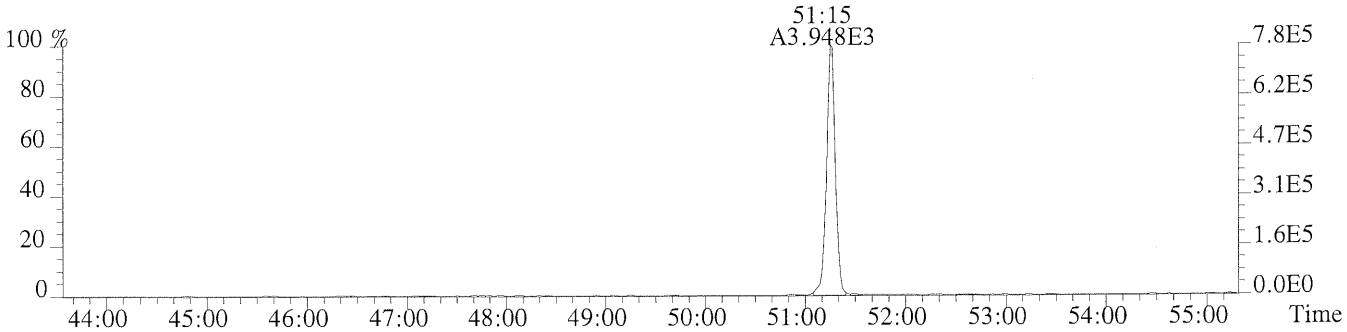


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

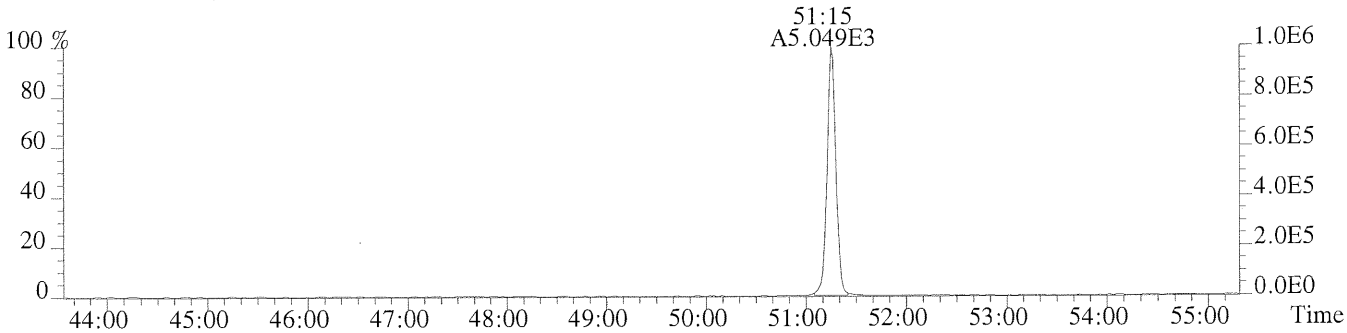


File:U142055 #1-582 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

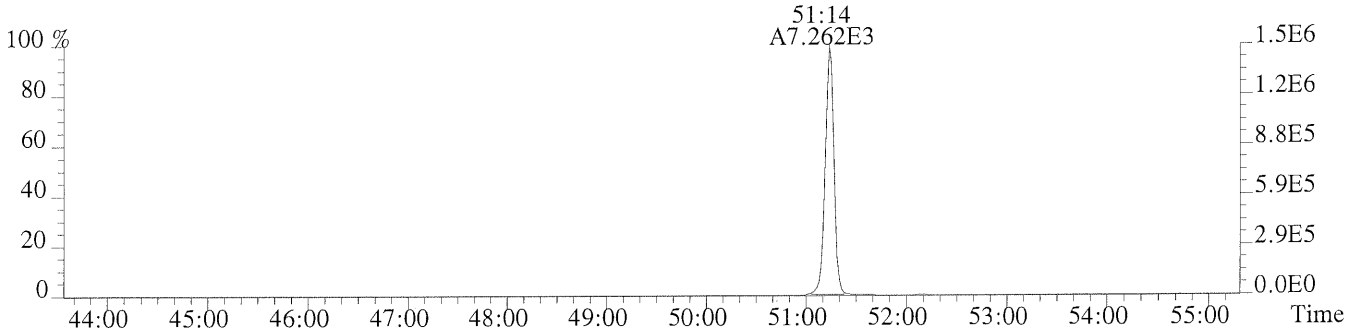
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,660.0,1.00%,F,T)



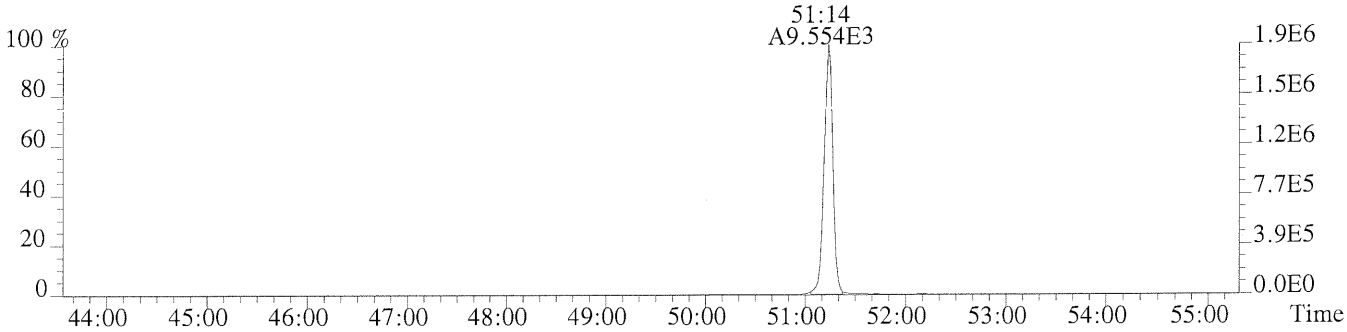
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1408.0,1.00%,F,T)



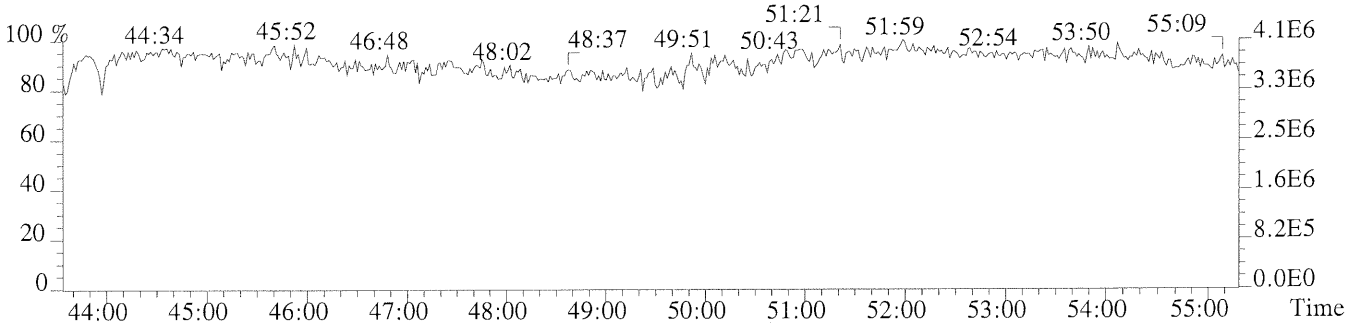
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,688.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)

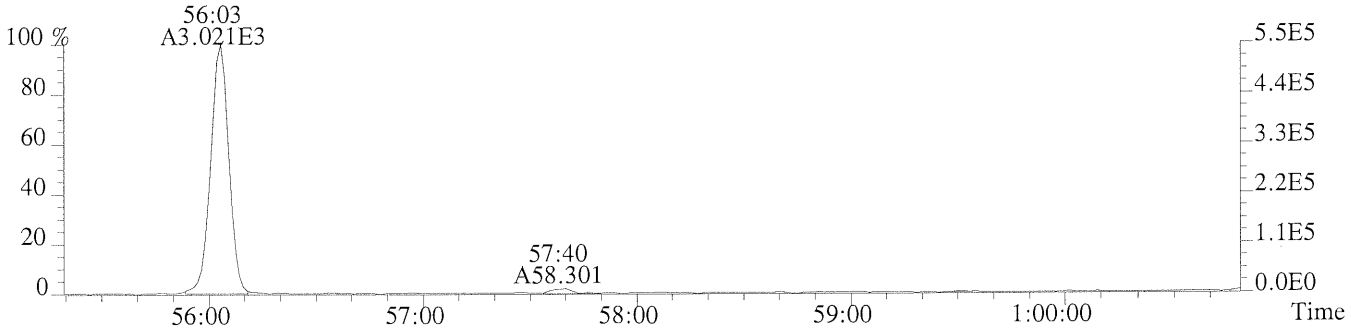


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

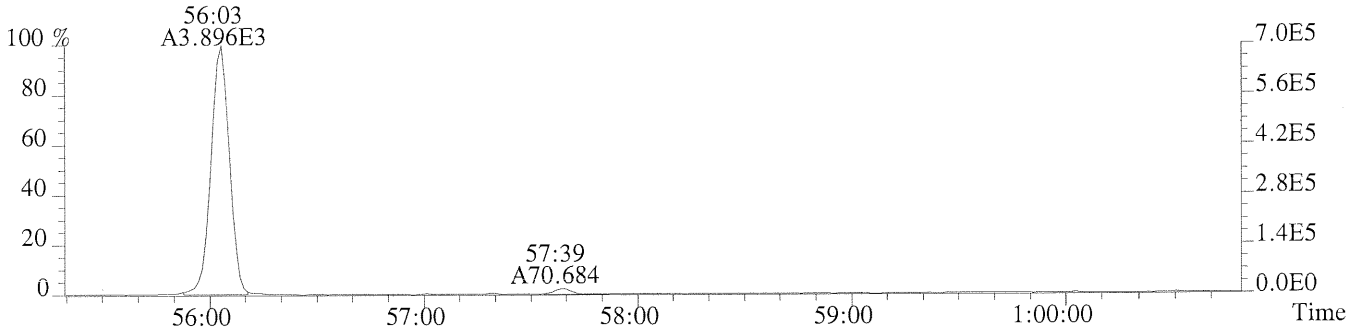


File:U142055 #1-310 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

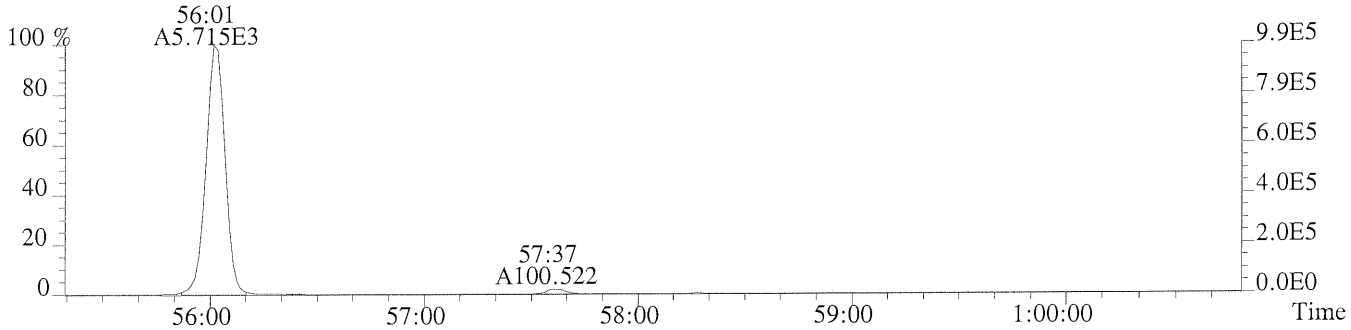
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1876.0,1.00%,F,T)



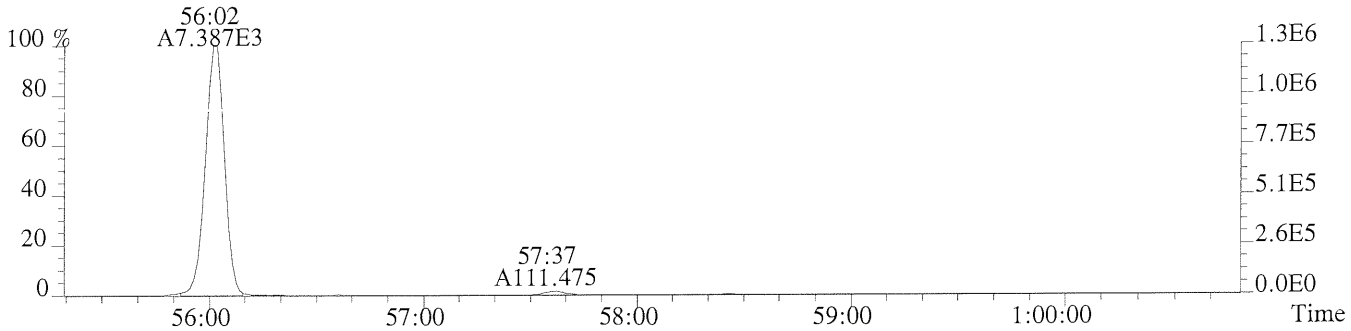
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2028.0,1.00%,F,T)



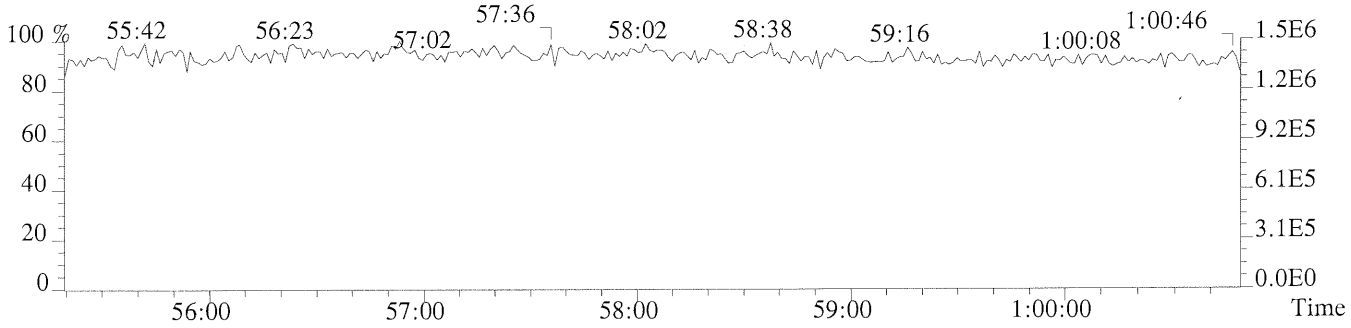
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1044.0,1.00%,F,T)

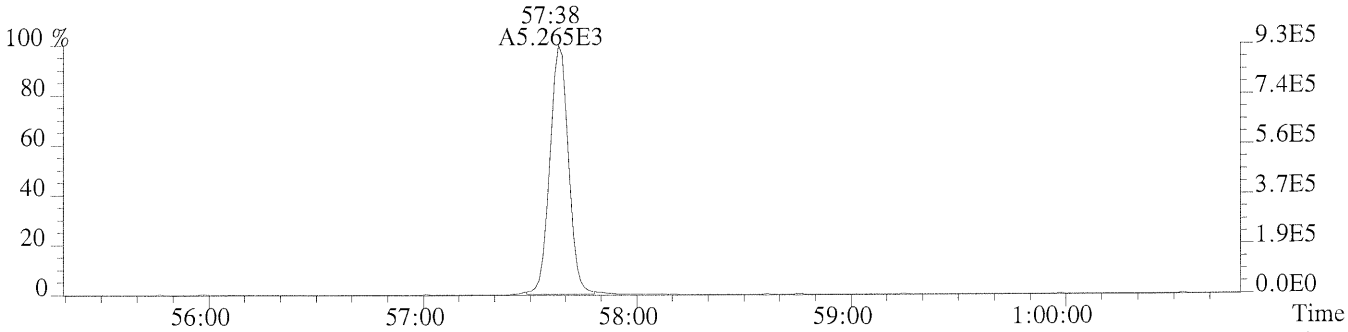


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

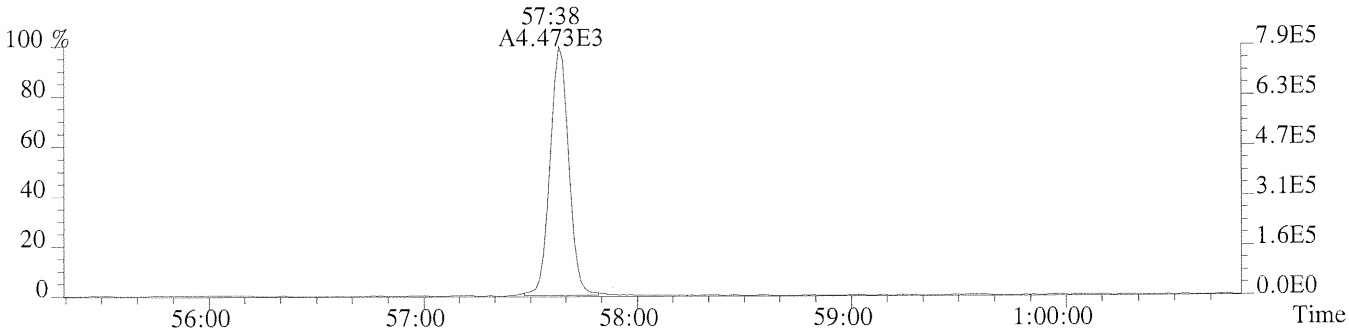


File:U142055 #1-310 Acq: 7-NOV-2011 08:57:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:EQ1100494-03 DLCS

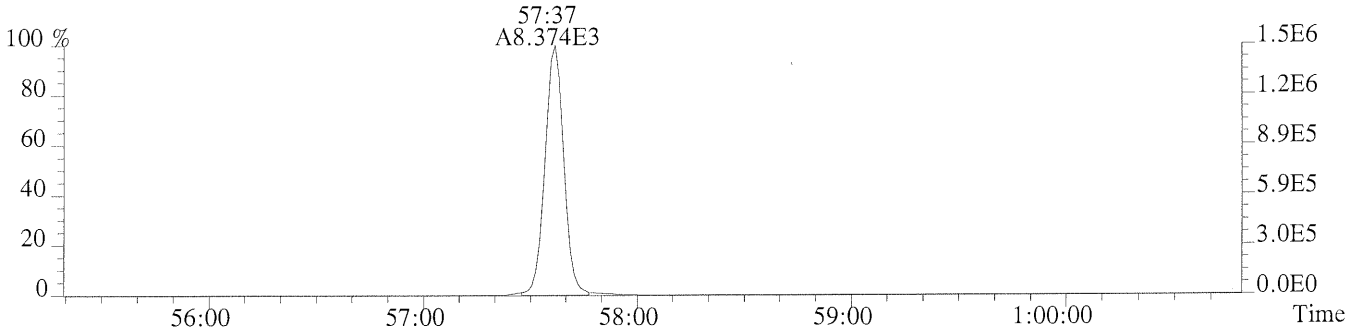
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1072.0,1.00%,F,T)



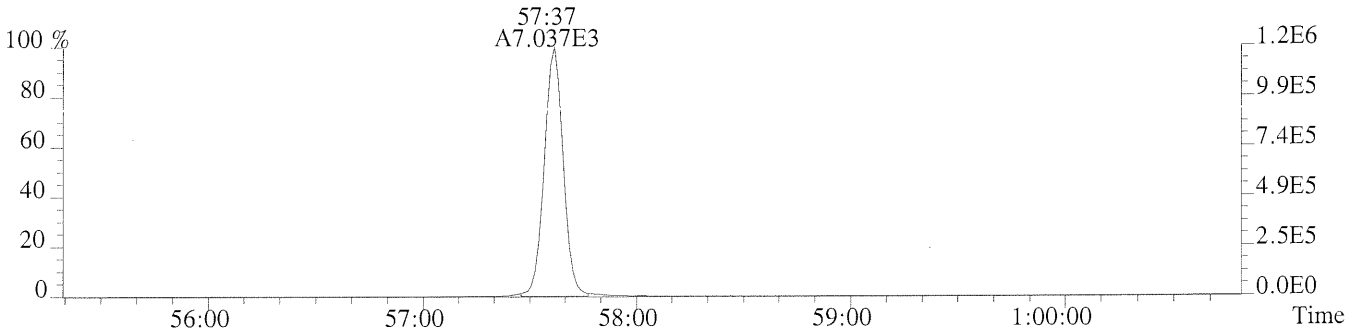
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



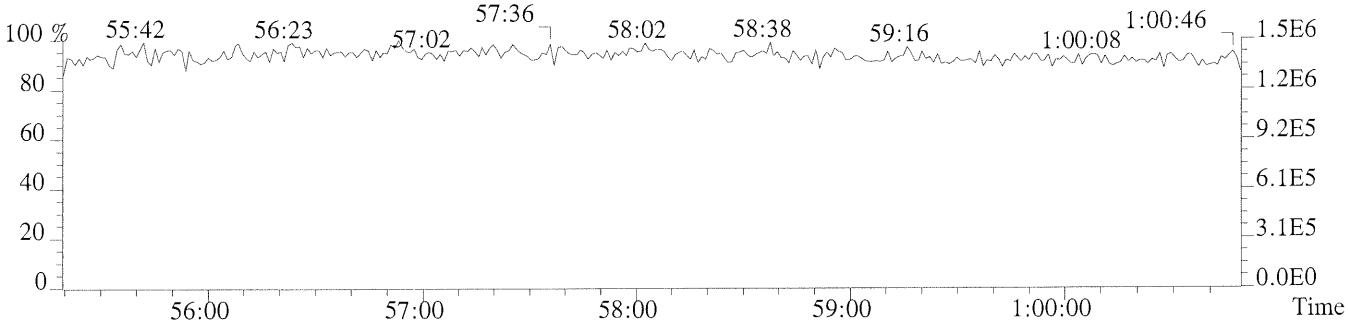
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,908.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4CS-SS1-PCBs

Run #11 Filename U142057 Samp: 1 Inj: 1 Acquired: 7-NOV-11 11:48:26
Processed: 11-NOV-11 11:26:37 Sample ID: E1101017-001

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	13:22	2.220e+02	6.670e+01	3.33	y	n	1.071
2	1	PCB-2	NotFnd	*	*	*	n	n	0.974
3	1	PCB-3	15:40	2.670e+02	1.342e+02	1.99	n	n	1.036
4	1	PCB-4	NotFnd	*	*	*	n	n	1.114
5	1	PCB-10	NotFnd	*	*	*	n	n	1.684
6	2	PCB-9	NotFnd	*	*	*	n	n	1.024
7	2	PCB-7	NotFnd	*	*	*	n	n	1.112
8	2	PCB-6	NotFnd	*	*	*	n	n	1.042
9	2	PCB-5	NotFnd	*	*	*	n	n	1.026
10	2	PCB-8	NotFnd	*	*	*	n	n	1.057
11	2	PCB-14	NotFnd	*	*	*	n	n	1.053
12	2	PCB-11	NotFnd	*	*	*	n	n	1.067
13	2	PCB-12/13	NotFnd	*	*	*	n	n	1.058
14	2	PCB-15	NotFnd	*	*	*	n	n	0.977
15	2	PCB-19	NotFnd	*	*	*	n	n	1.001
16	2	PCB-18/30	NotFnd	*	*	*	n	n	1.225
17	2	PCB-17	NotFnd	*	*	*	n	n	1.056
18	2	PCB-27	NotFnd	*	*	*	n	n	1.362
19	2	PCB-24	NotFnd	*	*	*	n	n	1.508
20	2	PCB-16	NotFnd	*	*	*	n	n	0.805
21	2	PCB-32	NotFnd	*	*	*	n	n	1.461
22	3	PCB-34	NotFnd	*	*	*	n	y	1.294
23	3	PCB-23	NotFnd	*	*	*	n	y	1.399
24	3	PCB-26/29	NotFnd	*	*	*	n	y	1.314
25	3	PCB-25	NotFnd	*	*	*	n	y	1.440
26	3	PCB-31	24:43	3.586e+02	2.273e+02	1.58	n	y	1.297
27	3	PCB-20/28	25:00	2.829e+02	2.510e+02	1.13	y	y	1.532
28	3	PCB-21/33	NotFnd	*	*	*	n	y	1.273
29	3	PCB-22	NotFnd	*	*	*	n	y	1.253
30	3	PCB-36	NotFnd	*	*	*	n	y	1.253
31	3	PCB-39	NotFnd	*	*	*	n	y	1.405
32	3	PCB-38	NotFnd	*	*	*	n	y	1.176
33	3	PCB-35	NotFnd	*	*	*	n	y	1.139
34	3	PCB-37	NotFnd	*	*	*	n	y	1.089
35	2	PCB-54	NotFnd	*	*	*	n	n	1.002
36	3	PCB-50/53	24:26	3.046e+01	2.839e+01	1.07	n	y	1.115
37	3	PCB-45/51	25:12	4.974e+01	8.504e+01	0.58	n	y	1.076
38	3	PCB-46	NotFnd	*	*	*	n	y	0.925
39	3	PCB-52	26:52	1.753e+02	2.053e+02	0.85	y	y	1.113
40	3	PCB-43/73	NotFnd	*	*	*	n	n	1.220
41	3	PCB-49/69	27:21	6.629e+01	8.881e+01	0.75	y	y	1.245
42	3	PCB-48	27:37	2.945e+01	2.576e+01	1.14	n	y	1.133
43	3	PCB-44/47/65	27:54	1.845e+02	2.402e+02	0.77	y	y	1.215
44	3	PCB-59/62/75	NotFnd	*	*	*	n	y	1.422
45	3	PCB-42	NotFnd	*	*	*	n	y	1.006
46	3	PCB-40/41/71	28:53	4.749e+01	6.172e+01	0.77	y	y	1.094
47	3	PCB-64	29:06	5.162e+01	4.677e+01	1.10	n	y	1.461
48	3	PCB-72	NotFnd	*	*	*	n	n	1.445
49	3	PCB-68	30:15	1.719e+01	2.286e+01	0.75	y	n	1.597
50	3	PCB-57	NotFnd	*	*	*	n	n	1.356

51	3	PCB-58	NotFnd	*	*	*	n	n	1.450
52	3	PCB-67	NotFnd	*	*	*	n	n	1.451
53	3	PCB-63	NotFnd	*	*	*	n	n	1.359
54	3	PCB-61/70/74/76	31:39	1.017e+02	1.173e+02	0.87	y	y	1.453
55	3	PCB-66	NotFnd	*	*	*	n	n	1.394
56	3	PCB-55	NotFnd	*	*	*	n	n	1.369
57	4	PCB-56	NotFnd	*	*	*	n	n	1.184
58	4	PCB-60	NotFnd	*	*	*	n	n	1.143
59	4	PCB-80	NotFnd	*	*	*	n	n	1.209
60	4	PCB-79	NotFnd	*	*	*	n	n	1.178
61	4	PCB-78	NotFnd	*	*	*	n	n	1.021
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	NotFnd	*	*	*	n	n	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	NotFnd	*	*	*	n	n	1.399
66	3	PCB-103	NotFnd	*	*	*	n	n	1.189
67	3	PCB-94	NotFnd	*	*	*	n	n	1.050
68	3	PCB-95	30:46	1.148e+02	8.406e+01	1.37	y	y	1.067
69	3	PCB-93/100	NotFnd	*	*	*	n	n	1.096
70	3	PCB-98/102	NotFnd	*	*	*	n	n	1.134
71	3	PCB-88/91	NotFnd	*	*	*	n	n	1.053
72	3	PCB-84	NotFnd	*	*	*	n	y	0.925
73	3	PCB-89	NotFnd	*	*	*	n	n	0.892
74	4	PCB-121	NotFnd	*	*	*	n	n	1.376
75	4	PCB-92	33:09	2.118e+01	1.401e+01	1.51	y	n	0.954
76	4	PCB-90/101/113	33:45	1.117e+02	7.771e+01	1.44	y	y	1.094
77	4	PCB-83/99	34:19	4.097e+01	3.613e+01	1.13	n	y	1.003
78	4	PCB-112	NotFnd	*	*	*	n	n	1.262
79	4	PCB-86/87/97/109/119/125	34:49	4.428e+01	2.757e+01	1.61	y	y	1.125
80	4	PCB-117	NotFnd	*	*	*	n	n	1.284
81	4	PCB-85/116	35:38	2.507e+01	1.623e+01	1.54	y	n	1.123
82	4	PCB-110/115	35:44	1.077e+02	7.705e+01	1.40	y	n	1.328
83	4	PCB-82	NotFnd	*	*	*	n	n	0.807
84	4	PCB-111	NotFnd	*	*	*	n	n	1.347
85	4	PCB-120	NotFnd	*	*	*	n	n	1.281
86	5	PCB-108/124	NotFnd	*	*	*	n	n	0.897
87	5	PCB-107	NotFnd	*	*	*	n	n	1.024
88	5	PCB-123	NotFnd	*	*	*	n	n	1.018
89	5	PCB-106	NotFnd	*	*	*	n	n	0.906
90	5	PCB-118	38:44	4.082e+01	2.838e+01	1.44	y	n	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	0.865
92	5	PCB-114	NotFnd	*	*	*	n	n	0.991
93	5	PCB-105	NotFnd	*	*	*	n	y	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	0.887
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.718
98	4	PCB-150	NotFnd	*	*	*	n	n	1.896
99	4	PCB-136	34:15	8.892e+01	7.498e+01	1.19	y	n	1.660
100	4	PCB-145	NotFnd	*	*	*	n	n	1.780
101	4	PCB-148	NotFnd	*	*	*	n	n	1.264
102	4	PCB-135/151	36:40	6.770e+01	4.466e+01	1.52	n	n	1.286
103	4	PCB-154	NotFnd	*	*	*	n	n	1.465
104	4	PCB-144	NotFnd	*	*	*	n	n	1.301
105	5	PCB-147/149	37:35	2.639e+02	1.955e+02	1.35	y	y	1.233
106	5	PCB-134	NotFnd	*	*	*	n	n	0.982
107	5	PCB-143	NotFnd	*	*	*	n	n	1.080

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.209
109	5	PCB-131	NotFnd	*	*	*	n	n	1.028
110	5	PCB-142	NotFnd	*	*	*	n	n	1.012
111	5	PCB-132	38:49	4.417e+01	3.707e+01	1.19	y	y	1.079
112	5	PCB-133	NotFnd	*	*	*	n	n	1.044
113	5	PCB-165	NotFnd	*	*	*	n	n	1.422
114	5	PCB-146	NotFnd	*	*	*	n	y	1.222
115	5	PCB-161	NotFnd	*	*	*	n	n	1.376
116	5	PCB-153/168	40:36	1.312e+02	8.260e+01	1.59	n	n	1.346
117	5	PCB-141	NotFnd	*	*	*	n	y	1.064
118	5	PCB-130	NotFnd	*	*	*	n	n	0.932
119	5	PCB-137	NotFnd	*	*	*	n	n	1.128
120	5	PCB-164	NotFnd	*	*	*	n	y	1.376
121	5	PCB-129/138/163	41:53	8.731e+01	6.299e+01	1.39	y	y	1.193
122	5	PCB-160	NotFnd	*	*	*	n	n	1.487
123	5	PCB-158	NotFnd	*	*	*	n	y	1.551
124	5	PCB-128/166	NotFnd	*	*	*	n	n	1.253
125	6	PCB-159	NotFnd	*	*	*	n	n	0.967
126	6	PCB-162	NotFnd	*	*	*	n	n	1.031
127	6	PCB-167	NotFnd	*	*	*	n	n	1.008
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	39:35	1.459e+02	1.626e+02	0.90	y	n	1.394
132	5	PCB-184	NotFnd	*	*	*	n	n	1.530
133	5	PCB-176	40:29	2.682e+01	1.637e+01	1.64	n	n	1.349
134	5	PCB-186	NotFnd	*	*	*	n	n	1.400
135	5	PCB-178	42:19	2.925e+01	2.832e+01	1.03	y	n	1.012
136	5	PCB-175	NotFnd	*	*	*	n	n	1.056
137	5	PCB-187	43:14	1.335e+02	1.254e+02	1.06	y	n	1.219
138	5	PCB-182	NotFnd	*	*	*	n	n	0.908
139	6	PCB-183	43:50	4.608e+01	2.885e+01	1.60	n	y	0.719
140	6	PCB-185	NotFnd	*	*	*	n	n	0.758
141	6	PCB-174	44:05	2.927e+01	3.400e+01	0.86	n	n	0.685
142	6	PCB-177	44:32	3.068e+01	2.121e+01	1.45	n	y	0.623
143	6	PCB-181	NotFnd	*	*	*	n	n	0.733
144	6	PCB-171/173	NotFnd	*	*	*	n	y	0.622
145	6	PCB-172	NotFnd	*	*	*	n	n	0.592
146	6	PCB-192	NotFnd	*	*	*	n	n	0.817
147	6	PCB-180/193	47:23	4.435e+01	2.793e+01	1.59	n	n	0.761
148	6	PCB-191	NotFnd	*	*	*	n	n	0.798
149	6	PCB-170	NotFnd	*	*	*	n	n	0.568
150	6	PCB-190	NotFnd	*	*	*	n	n	0.742
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	44:38	2.048e+01	2.944e+01	0.70	n	y	0.863
153	6	PCB-201	NotFnd	*	*	*	n	y	1.226
154	6	PCB-204	NotFnd	*	*	*	n	n	1.192
155	6	PCB-197	NotFnd	*	*	*	n	n	1.247
156	6	PCB-200	NotFnd	*	*	*	n	n	1.222
157	6	PCB-198/199	NotFnd	*	*	*	n	y	0.830
158	6	PCB-196	NotFnd	*	*	*	n	n	0.864
159	6	PCB-203	NotFnd	*	*	*	n	n	0.940
160	6	PCB-195	NotFnd	*	*	*	n	n	0.723
161	6	PCB-194	NotFnd	*	*	*	n	n	0.693
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	51:19	1.309e+01	2.056e+01	0.64	n	n	0.880
164	6	PCB-207	NotFnd	*	*	*	n	n	1.146

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165	7	PCB-206	NotFnd	*	*	*	n	n	0.931
166	7	PCB-209	57:40	2.831e+01	2.780e+01	1.02	y	n	0.894
167	1	PCB-1L	13:22	2.787e+04	9.102e+03	3.06	y	n	1.220
168	1	PCB-3L	15:39	4.107e+04	1.303e+04	3.15	y	n	1.175
169	1	PCB-4L	15:54	2.116e+04	1.351e+04	1.57	y	n	0.803
170	2	PCB-15L	22:01	2.778e+04	1.753e+04	1.58	y	n	0.962
171	2	PCB-19L	19:13	1.216e+04	1.200e+04	1.01	y	n	0.636
172	3	PCB-37L	29:02	2.252e+04	2.078e+04	1.08	y	n	1.144
173	2	PCB-54L	22:18	1.500e+04	1.865e+04	0.80	y	n	1.140
174	4	PCB-81L	35:50	1.687e+04	2.125e+04	0.79	y	n	0.947
175	4	PCB-77L	36:24	1.921e+04	2.350e+04	0.82	y	n	0.949
176	3	PCB-104L	27:47	1.974e+04	1.245e+04	1.59	y	n	1.397
177	5	PCB-123L	38:23	2.207e+04	1.389e+04	1.59	y	n	1.029
178	5	PCB-118L	38:42	2.285e+04	1.426e+04	1.60	y	n	1.077
179	5	PCB-114L	39:14	2.545e+04	1.516e+04	1.68	y	n	1.075
180	5	PCB-105L	39:53	2.140e+04	1.358e+04	1.58	y	n	1.013
181	5	PCB-126L	43:00	1.992e+04	1.227e+04	1.62	y	n	0.898
182	4	PCB-155L	33:29	1.997e+04	1.609e+04	1.24	y	n	1.637
183	6	PCB-167L	44:52	1.488e+04	1.190e+04	1.25	y	n	0.882
184	6	PCB-156/157L	46:00	3.041e+04	2.407e+04	1.26	y	n	0.818
185	6	PCB-169L	49:15	1.339e+04	1.048e+04	1.28	y	n	0.716
186	5	PCB-188L	39:13	1.984e+04	1.892e+04	1.05	y	n	2.350
187	6	PCB-189L	51:46	1.361e+04	1.310e+04	1.04	y	n	1.305
188	6	PCB-202L	44:36	1.499e+04	1.631e+04	0.92	y	n	1.804
189	6	PCB-205L	54:19	9.810e+03	1.091e+04	0.90	y	n	1.363
190	6	PCB-208L	51:16	1.013e+04	1.285e+04	0.79	y	n	1.337
191	7	PCB-206L	56:04	7.365e+03	9.495e+03	0.78	y	n	0.998
192	7	PCB-209L	57:39	1.171e+04	9.727e+03	1.20	y	n	1.563
193	3	PCB-28L	24:59	2.390e+04	2.185e+04	1.09	y	n	1.387
194	4	PCB-111L	36:26	2.495e+04	1.583e+04	1.58	y	n	1.238
195	5	PCB-178L	42:18	1.122e+04	1.090e+04	1.03	y	n	0.953
196	2	PCB-9L	18:04	2.977e+04	1.847e+04	1.61	y	n	-
197	3	PCB-52L	26:50	1.971e+04	2.439e+04	0.81	y	n	-
198	4	PCB-101L	33:43	2.369e+04	1.502e+04	1.58	y	n	-
199	5	PCB-138L	41:50	1.708e+04	1.365e+04	1.25	y	n	-
200	6	PCB-194L	53:51	1.033e+04	1.151e+04	0.90	y	n	-

-- Sample Calculation--

$$\text{PCB-209} = \frac{(2.831e+01 + 2.780e+01) \times 10000 \text{ pg} \times 1}{(1.171e+04 + 9.727e+03) \times (\quad \text{mL}) \times (1\text{L} / 1000 \text{ mL}) \times 0.8938} = 58.6 \text{ pg}$$

11/14/11

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sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4CS-SS1-PCBs

Run #4 Filename U142057#1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 11:48:26
Processed: 11-NOV-11 16:44:30 Sample ID: E1101017-001

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:52	2.888e+03	1.814e+03	1.59	yes	1.043	no
2	70L	PCB-70L	31:37	1.337e+04	1.679e+04	0.80	yes	1.530	no
3	15L	PCB-15L	22:01	2.778e+04	1.753e+04	1.58	yes		no
4	81L	PCB-81L	35:50	1.687e+04	2.125e+04	0.79	yes		no

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	3.04e+05	1.69e+03	1.8e+02	1.91e+05	1.42e+03	1.3e+02
2	PCB-70L	2.14e+06	5.49e+03	3.9e+02	2.69e+06	4.50e+03	6.0e+02
3	PCB-15L	5.79e+06	1.69e+03	3.4e+03	3.72e+06	1.42e+03	2.6e+03
4	PCB-81L	2.70e+06	2.86e+03	9.4e+02	3.44e+06	3.77e+03	9.1e+02

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(2.89e+03 + 1.81e+03) \times 10000\ \text{pg} \quad 1}{(2.78e+04 + 1.75e+04) \times 1.0\ \cancel{L} \times 1.043} = 994\ \text{pg}\ \cancel{\text{pg/L}}$$

11/14/11

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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4CS-SS1-PCBs

Run #11 Filename U142057#1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 11:48:26

Processed: 11-NOV-11 11:26:37 LAB. ID: E1101017-001

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	4.71e+04	1.48e+03	3.2e+01	1.42e+04	1.79e+03	7.9e+00
2	PCB-2	*	1.48e+03	*	*	1.79e+03	*
3	PCB-3	2.89e+04	1.48e+03	2.0e+01	1.50e+04	1.79e+03	8.4e+00
4	PCB-4	*	8.47e+03	*	*	1.91e+05	*
5	PCB-10	*	8.47e+03	*	*	1.91e+05	*
6	PCB-9	*	5.93e+03	*	*	2.60e+05	*
7	PCB-7	*	5.93e+03	*	*	2.60e+05	*
8	PCB-6	*	5.93e+03	*	*	2.60e+05	*
9	PCB-5	*	5.93e+03	*	*	2.60e+05	*
10	PCB-8	*	5.93e+03	*	*	2.60e+05	*
11	PCB-14	*	5.93e+03	*	*	2.60e+05	*
12	PCB-11	*	5.93e+03	*	*	2.60e+05	*
13	PCB-12/13	*	5.93e+03	*	*	2.60e+05	*
14	PCB-15	*	5.93e+03	*	*	2.60e+05	*
15	PCB-19	*	4.87e+04	*	*	1.60e+03	*
16	PCB-18/30	*	4.87e+04	*	*	1.60e+03	*
17	PCB-17	*	4.87e+04	*	*	1.60e+03	*
18	PCB-27	*	4.87e+04	*	*	1.60e+03	*
19	PCB-24	*	4.87e+04	*	*	1.60e+03	*
20	PCB-16	*	4.87e+04	*	*	1.60e+03	*
21	PCB-32	*	4.87e+04	*	*	1.60e+03	*
22	PCB-34	*	1.72e+04	*	*	2.58e+03	*
23	PCB-23	*	1.72e+04	*	*	2.58e+03	*
24	PCB-26/29	*	1.72e+04	*	*	2.58e+03	*
25	PCB-25	*	1.72e+04	*	*	2.58e+03	*
26	PCB-31	5.17e+04	1.72e+04	3.0e+00	3.97e+04	2.58e+03	1.5e+01
27	PCB-20/28	4.39e+04	1.72e+04	2.5e+00	3.60e+04	2.58e+03	1.4e+01
28	PCB-21/33	*	1.72e+04	*	*	2.58e+03	*
29	PCB-22	*	1.72e+04	*	*	2.58e+03	*
30	PCB-36	*	1.72e+04	*	*	2.58e+03	*
31	PCB-39	*	1.72e+04	*	*	2.58e+03	*
32	PCB-38	*	1.72e+04	*	*	2.58e+03	*
33	PCB-35	*	1.72e+04	*	*	2.58e+03	*
34	PCB-37	*	1.72e+04	*	*	2.58e+03	*
35	PCB-54	*	8.56e+02	*	*	1.13e+03	*
36	PCB-50/53	5.72e+03	9.72e+02	5.9e+00	5.05e+03	7.92e+02	6.4e+00
37	PCB-45/51	6.11e+03	9.72e+02	6.3e+00	1.00e+04	7.92e+02	1.3e+01
38	PCB-46	*	9.72e+02	*	*	7.92e+02	*
39	PCB-52	2.65e+04	9.72e+02	2.7e+01	3.26e+04	7.92e+02	4.1e+01
40	PCB-43/73	*	9.72e+02	*	*	7.92e+02	*
41	PCB-49/69	9.30e+03	9.72e+02	9.6e+00	1.43e+04	7.92e+02	1.8e+01
42	PCB-48	4.58e+03	9.72e+02	4.7e+00	3.96e+03	7.92e+02	5.0e+00
43	PCB-44/47/65	2.36e+04	9.72e+02	2.4e+01	2.99e+04	7.92e+02	3.8e+01
44	PCB-59/62/75	*	9.72e+02	*	*	7.92e+02	*
45	PCB-42	*	9.72e+02	*	*	7.92e+02	*
46	PCB-40/41/71	7.65e+03	9.72e+02	7.9e+00	8.57e+03	7.92e+02	1.1e+01
47	PCB-64	9.13e+03	9.72e+02	9.4e+00	7.56e+03	7.92e+02	9.5e+00

48	PCB-72	*	9.72e+02	*	*	7.92e+02	*
49	PCB-68	2.63e+03	9.72e+02	2.7e+00	3.85e+03	7.92e+02	4.9e+00
50	PCB-57	*	9.72e+02	*	*	7.92e+02	*
51	PCB-58	*	9.72e+02	*	*	7.92e+02	*
52	PCB-67	*	9.72e+02	*	*	7.92e+02	*
53	PCB-63	*	9.72e+02	*	*	7.92e+02	*
54	PCB-61/70/74/76	1.29e+04	9.72e+02	1.3e+01	1.41e+04	7.92e+02	1.8e+01
55	PCB-66	*	9.72e+02	*	*	7.92e+02	*
56	PCB-55	*	9.72e+02	*	*	7.92e+02	*
57	PCB-56	*	1.20e+03	*	*	2.02e+03	*
58	PCB-60	*	1.20e+03	*	*	2.02e+03	*
59	PCB-80	*	1.20e+03	*	*	2.02e+03	*
60	PCB-79	*	1.20e+03	*	*	2.02e+03	*
61	PCB-78	*	1.20e+03	*	*	2.02e+03	*
62	PCB-81	*	1.20e+03	*	*	2.02e+03	*
63	PCB-77	*	1.20e+03	*	*	2.02e+03	*
64	PCB-104	*	7.64e+02	*	*	6.84e+02	*
65	PCB-96	*	7.64e+02	*	*	6.84e+02	*
66	PCB-103	*	7.64e+02	*	*	6.84e+02	*
67	PCB-94	*	7.64e+02	*	*	6.84e+02	*
68	PCB-95	1.72e+04	7.64e+02	2.3e+01	1.34e+04	6.84e+02	2.0e+01
69	PCB-93/100	*	7.64e+02	*	*	6.84e+02	*
70	PCB-98/102	*	7.64e+02	*	*	6.84e+02	*
71	PCB-88/91	*	7.64e+02	*	*	6.84e+02	*
72	PCB-84	*	7.64e+02	*	*	6.84e+02	*
73	PCB-89	*	7.64e+02	*	*	6.84e+02	*
74	PCB-121	*	1.11e+03	*	*	8.16e+02	*
75	PCB-92	3.49e+03	1.11e+03	3.2e+00	2.54e+03	8.16e+02	3.1e+00
76	PCB-90/101/113	1.70e+04	1.11e+03	1.5e+01	1.24e+04	8.16e+02	1.5e+01
77	PCB-83/99	5.56e+03	1.11e+03	5.0e+00	3.65e+03	8.16e+02	4.5e+00
78	PCB-112	*	1.11e+03	*	*	8.16e+02	*
79	CB-86/87/97/109/119/125	3.71e+03	1.11e+03	3.3e+00	2.20e+03	8.16e+02	2.7e+00
80	PCB-117	*	1.11e+03	*	*	8.16e+02	*
81	PCB-85/116	4.84e+03	1.11e+03	4.4e+00	2.89e+03	8.16e+02	3.5e+00
82	PCB-110/115	1.87e+04	1.11e+03	1.7e+01	1.19e+04	8.16e+02	1.5e+01
83	PCB-82	*	1.11e+03	*	*	8.16e+02	*
84	PCB-111	*	1.11e+03	*	*	8.16e+02	*
85	PCB-120	*	1.11e+03	*	*	8.16e+02	*
86	PCB-108/124	*	1.48e+03	*	*	1.44e+03	*
87	PCB-107	*	1.48e+03	*	*	1.44e+03	*
88	PCB-123	*	1.48e+03	*	*	1.44e+03	*
89	PCB-106	*	1.48e+03	*	*	1.44e+03	*
90	PCB-118	7.85e+03	1.48e+03	5.3e+00	6.33e+03	1.44e+03	4.4e+00
91	PCB-122	*	1.48e+03	*	*	1.44e+03	*
92	PCB-114	*	1.48e+03	*	*	1.44e+03	*
93	PCB-105	*	1.48e+03	*	*	1.44e+03	*
94	PCB-127	*	1.48e+03	*	*	1.44e+03	*
95	PCB-126	*	1.48e+03	*	*	1.44e+03	*
96	PCB-155	*	1.15e+03	*	*	1.02e+03	*
97	PCB-152	*	1.15e+03	*	*	1.02e+03	*
98	PCB-150	*	1.15e+03	*	*	1.02e+03	*
99	PCB-136	1.33e+04	1.15e+03	1.2e+01	1.29e+04	1.02e+03	1.3e+01
100	PCB-145	*	1.15e+03	*	*	1.02e+03	*
101	PCB-148	*	1.15e+03	*	*	1.02e+03	*
102	PCB-135/151	8.38e+03	1.15e+03	7.3e+00	6.49e+03	1.02e+03	6.4e+00
103	PCB-154	*	1.15e+03	*	*	1.02e+03	*
104	PCB-144	*	1.15e+03	*	*	1.02e+03	*

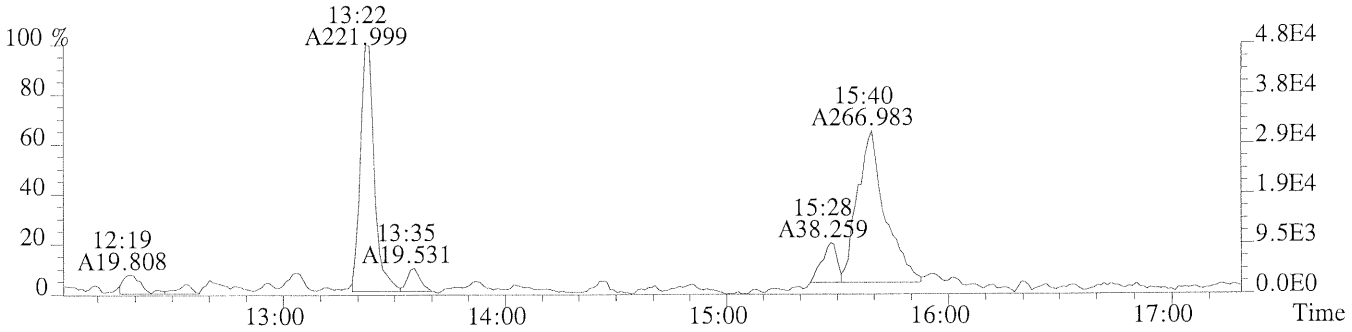
105	PCB-147/149	4.48e+04	8.76e+02	5.1e+01	3.55e+04	1.08e+03	3.3e+01
106	PCB-134	*	8.76e+02	*	*	1.08e+03	*
107	PCB-143	*	8.76e+02	*	*	1.08e+03	*
108	PCB-139/140	*	8.76e+02	*	*	1.08e+03	*
109	PCB-131	*	8.76e+02	*	*	1.08e+03	*
110	PCB-142	*	8.76e+02	*	*	1.08e+03	*
111	PCB-132	7.50e+03	8.76e+02	8.6e+00	5.92e+03	1.08e+03	5.5e+00
112	PCB-133	*	8.76e+02	*	*	1.08e+03	*
113	PCB-165	*	8.76e+02	*	*	1.08e+03	*
114	PCB-146	*	8.76e+02	*	*	1.08e+03	*
115	PCB-161	*	8.76e+02	*	*	1.08e+03	*
116	PCB-153/168	2.18e+04	8.76e+02	2.5e+01	1.30e+04	1.08e+03	1.2e+01
117	PCB-141	*	8.76e+02	*	*	1.08e+03	*
118	PCB-130	*	8.76e+02	*	*	1.08e+03	*
119	PCB-137	*	8.76e+02	*	*	1.08e+03	*
120	PCB-164	*	8.76e+02	*	*	1.08e+03	*
121	PCB-129/138/163	1.36e+04	8.76e+02	1.6e+01	9.86e+03	1.08e+03	9.1e+00
122	PCB-160	*	8.76e+02	*	*	1.08e+03	*
123	PCB-158	*	8.76e+02	*	*	1.08e+03	*
124	PCB-128/166	*	8.76e+02	*	*	1.08e+03	*
125	PCB-159	*	8.40e+02	*	*	9.60e+02	*
126	PCB-162	*	8.40e+02	*	*	9.60e+02	*
127	PCB-167	*	8.40e+02	*	*	9.60e+02	*
128	PCB-156/157	*	8.40e+02	*	*	9.60e+02	*
129	PCB-169	*	8.40e+02	*	*	9.60e+02	*
130	PCB-188	*	9.60e+02	*	*	5.56e+02	*
131	PCB-179	2.55e+04	9.60e+02	2.7e+01	2.64e+04	5.56e+02	4.8e+01
132	PCB-184	*	9.60e+02	*	*	5.56e+02	*
133	PCB-176	4.95e+03	9.60e+02	5.2e+00	2.90e+03	5.56e+02	5.2e+00
134	PCB-186	*	9.60e+02	*	*	5.56e+02	*
135	PCB-178	6.08e+03	9.60e+02	6.3e+00	4.32e+03	5.56e+02	7.8e+00
136	PCB-175	*	9.60e+02	*	*	5.56e+02	*
137	PCB-187	2.26e+04	9.60e+02	2.4e+01	2.42e+04	5.56e+02	4.3e+01
138	PCB-182	*	9.60e+02	*	*	5.56e+02	*
139	PCB-183	8.42e+03	9.92e+02	8.5e+00	5.96e+03	8.76e+02	6.8e+00
140	PCB-185	*	9.92e+02	*	*	8.76e+02	*
141	PCB-174	6.41e+03	9.92e+02	6.5e+00	7.09e+03	8.76e+02	8.1e+00
142	PCB-177	5.37e+03	9.92e+02	5.4e+00	4.75e+03	8.76e+02	5.4e+00
143	PCB-181	*	9.92e+02	*	*	8.76e+02	*
144	PCB-171/173	*	9.92e+02	*	*	8.76e+02	*
145	PCB-172	*	9.92e+02	*	*	8.76e+02	*
146	PCB-192	*	9.92e+02	*	*	8.76e+02	*
147	PCB-180/193	8.13e+03	9.92e+02	8.2e+00	6.03e+03	8.76e+02	6.9e+00
148	PCB-191	*	9.92e+02	*	*	8.76e+02	*
149	PCB-170	*	9.92e+02	*	*	8.76e+02	*
150	PCB-190	*	9.92e+02	*	*	8.76e+02	*
151	PCB-189	*	9.92e+02	*	*	8.76e+02	*
152	PCB-202	5.62e+03	8.84e+02	6.4e+00	6.19e+03	1.12e+03	5.5e+00
153	PCB-201	*	8.84e+02	*	*	1.12e+03	*
154	PCB-204	*	8.84e+02	*	*	1.12e+03	*
155	PCB-197	*	8.84e+02	*	*	1.12e+03	*
156	PCB-200	*	8.84e+02	*	*	1.12e+03	*
157	PCB-198/199	*	8.84e+02	*	*	1.12e+03	*
158	PCB-196	*	8.84e+02	*	*	1.12e+03	*
159	PCB-203	*	8.84e+02	*	*	1.12e+03	*
160	PCB-195	*	8.84e+02	*	*	1.12e+03	*
161	PCB-194	*	8.84e+02	*	*	1.12e+03	*
162	PCB-205	*	8.84e+02	*	*	1.12e+03	*

Run #11 Filename U142057#1 Samp: 1 Acquired: 7-NOV-11 11:48:26

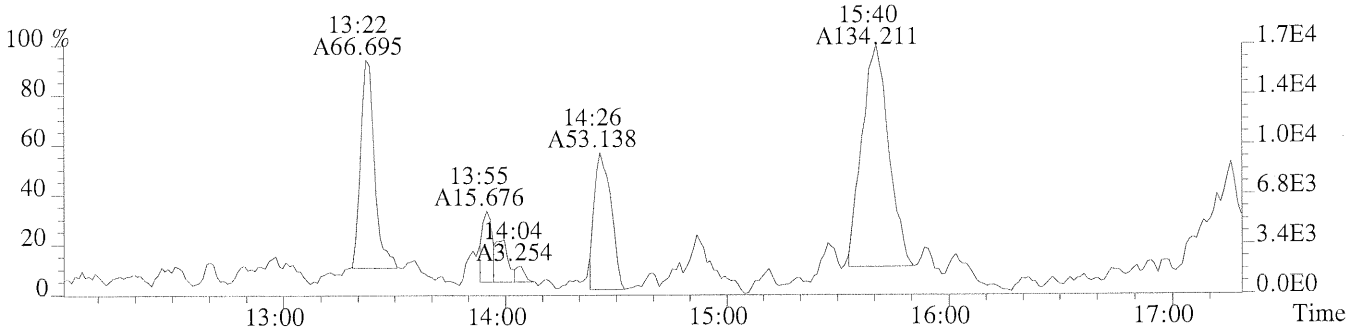
PCB-208	3.34e+03	1.06e+03	3.1e+00	4.41e+03	7.96e+02	5.5e+00
PCB-207	*	1.06e+03	*	*	7.96e+02	*
PCB-206	*	6.96e+02	*	*	1.32e+03	*
PCB-209	5.55e+03	1.11e+03	5.0e+00	5.64e+03	5.88e+02	9.6e+00
PCB-1L	6.36e+06	2.47e+03	2.6e+03	2.07e+06	9.72e+03	2.1e+02
PCB-3L	4.27e+06	2.47e+03	1.7e+03	1.38e+06	9.72e+03	1.4e+02
PCB-4L	1.72e+06	1.13e+03	1.5e+03	1.07e+06	1.30e+03	8.2e+02
PCB-15L	5.79e+06	1.69e+03	3.4e+03	3.72e+06	1.42e+03	2.6e+03
PCB-19L	2.71e+06	1.00e+05	2.7e+01	2.63e+06	1.71e+05	1.5e+01
PCB-37L	3.46e+06	5.40e+04	6.4e+01	3.21e+06	7.46e+04	4.3e+01
PCB-54L	2.88e+06	7.22e+03	4.0e+02	3.60e+06	4.84e+03	7.4e+02
PCB-81L	2.70e+06	2.86e+03	9.4e+02	3.44e+06	3.77e+03	9.1e+02
PCB-77L	3.00e+06	2.86e+03	1.0e+03	3.72e+06	3.77e+03	9.9e+02
PCB-104L	2.97e+06	7.40e+02	4.0e+03	1.89e+06	9.60e+02	2.0e+03
PCB-123L	3.63e+06	4.50e+03	8.1e+02	2.30e+06	4.25e+03	5.4e+02
PCB-118L	3.79e+06	4.50e+03	8.4e+02	2.37e+06	4.25e+03	5.6e+02
PCB-114L	4.18e+06	4.50e+03	9.3e+02	2.51e+06	4.25e+03	5.9e+02
PCB-105L	3.47e+06	4.50e+03	7.7e+02	2.19e+06	4.25e+03	5.2e+02
PCB-126L	3.27e+06	4.50e+03	7.3e+02	2.00e+06	4.25e+03	4.7e+02
PCB-155L	3.02e+06	1.16e+03	2.6e+03	2.46e+06	1.19e+03	2.1e+03
PCB-167L	3.10e+06	1.70e+03	1.8e+03	2.46e+06	1.85e+03	1.3e+03
PCB-156/157L	4.73e+06	1.70e+03	2.8e+03	3.78e+06	1.85e+03	2.0e+03
PCB-169L	2.70e+06	1.70e+03	1.6e+03	2.12e+06	1.85e+03	1.1e+03
PCB-188L	3.21e+06	9.64e+02	3.3e+03	3.10e+06	8.16e+02	3.8e+03
PCB-189L	2.72e+06	1.15e+03	2.4e+03	2.63e+06	9.88e+02	2.7e+03
PCB-202L	3.02e+06	1.26e+03	2.4e+03	3.31e+06	1.08e+03	3.1e+03
PCB-205L	2.03e+06	1.26e+03	1.6e+03	2.27e+06	1.08e+03	2.1e+03
PCB-208L	2.07e+06	9.04e+02	2.3e+03	2.60e+06	8.12e+02	3.2e+03
PCB-206L	1.30e+06	9.28e+02	1.4e+03	1.67e+06	1.01e+03	1.7e+03
PCB-209L	2.04e+06	9.44e+02	2.2e+03	1.72e+06	7.80e+02	2.2e+03
PCB-28L	3.88e+06	5.40e+04	7.2e+01	3.59e+06	7.46e+04	4.8e+01
PCB-111L	4.11e+06	9.52e+02	4.3e+03	2.63e+06	1.31e+03	2.0e+03
PCB-178L	1.85e+06	9.64e+02	1.9e+03	1.83e+06	8.16e+02	2.2e+03
PCB-9L	8.60e+06	1.69e+03	5.1e+03	5.36e+06	1.42e+03	3.8e+03
PCB-52L	3.10e+06	5.49e+03	5.7e+02	3.83e+06	4.50e+03	8.5e+02
PCB-101L	3.54e+06	9.52e+02	3.7e+03	2.21e+06	1.31e+03	1.7e+03
PCB-138L	2.65e+06	8.72e+02	3.0e+03	2.13e+06	1.01e+03	2.1e+03
PCB-194L	2.10e+06	1.26e+03	1.7e+03	2.37e+06	1.08e+03	2.2e+03

File:U142057 #1-341 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

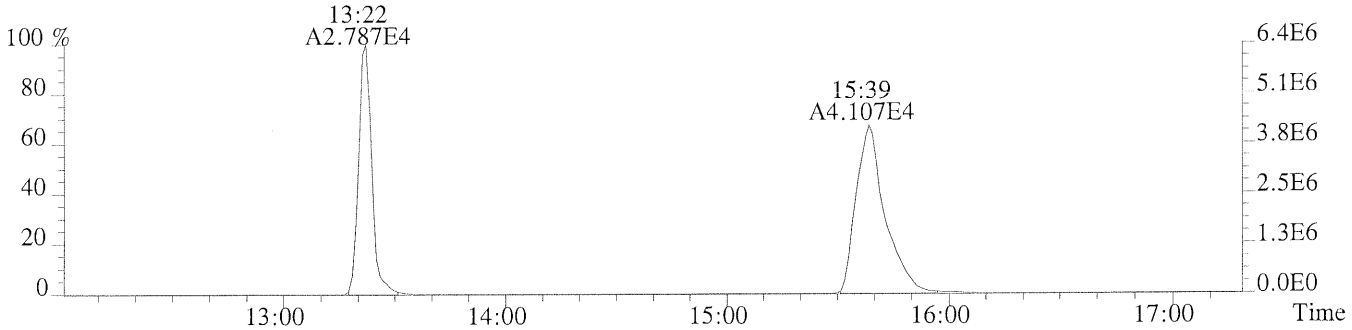
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1480.0,1.00%,F,T)



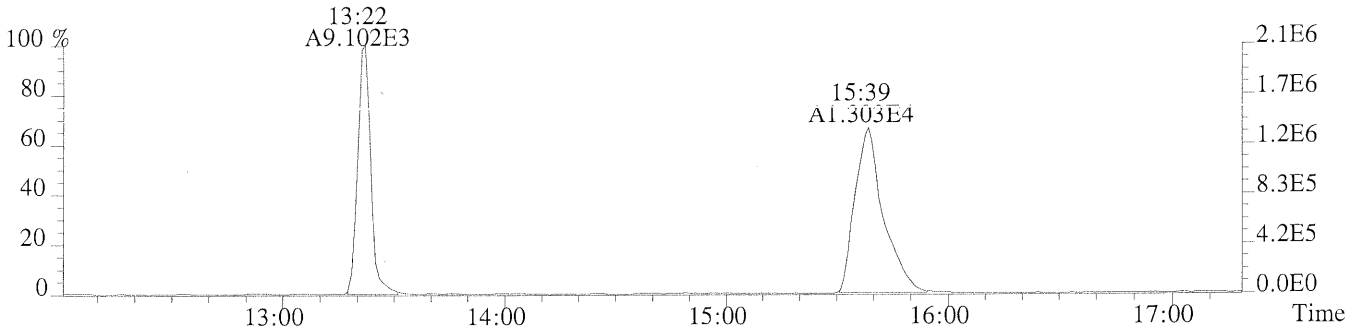
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1788.0,1.00%,F,T)



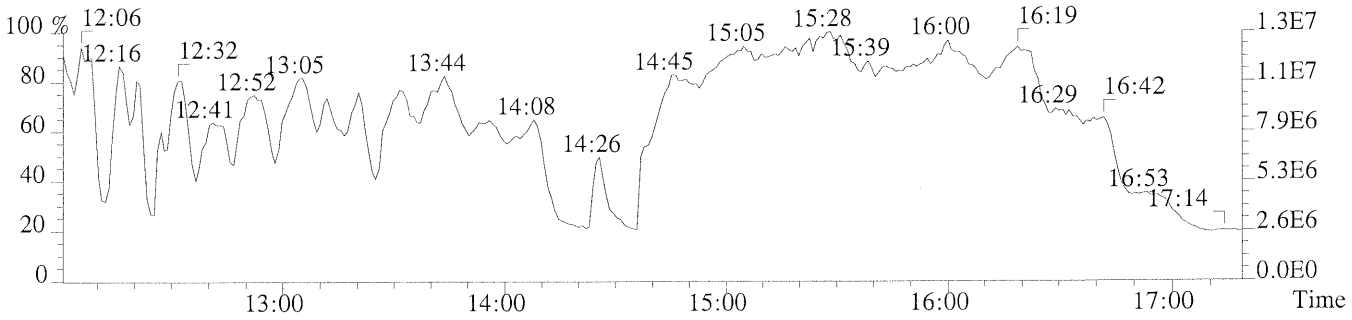
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2468.0,1.00%,F,T)



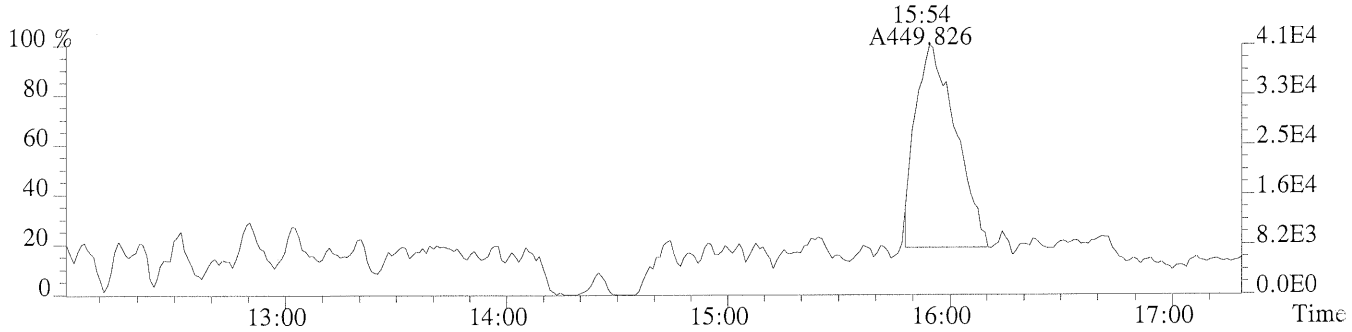
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9724.0,1.00%,F,T)



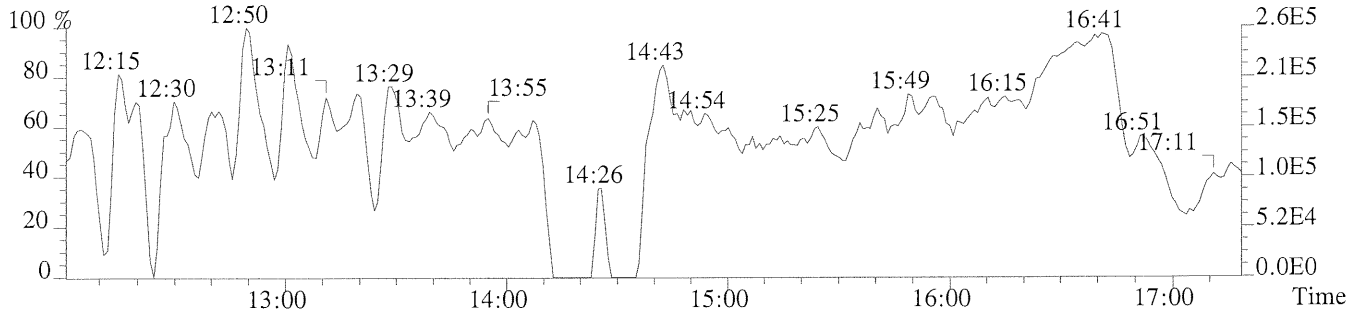
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



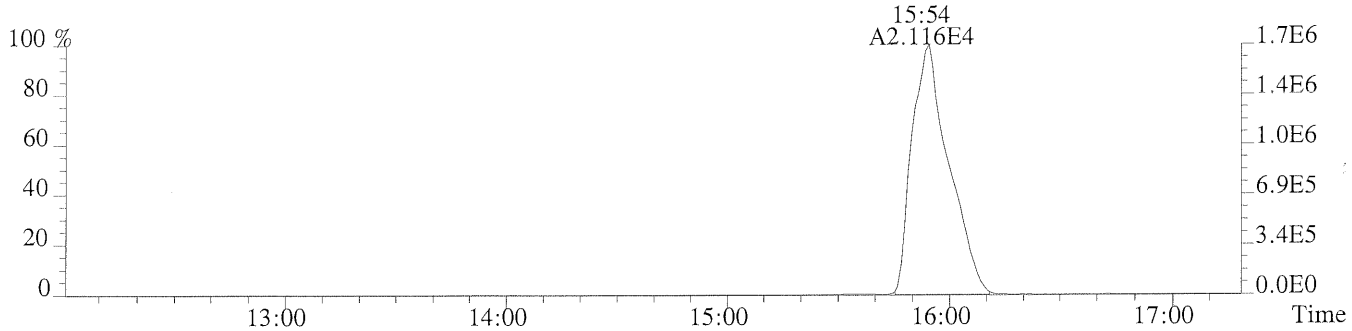
File:U142057 #1-341 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8472.0,1.00%,F,T)



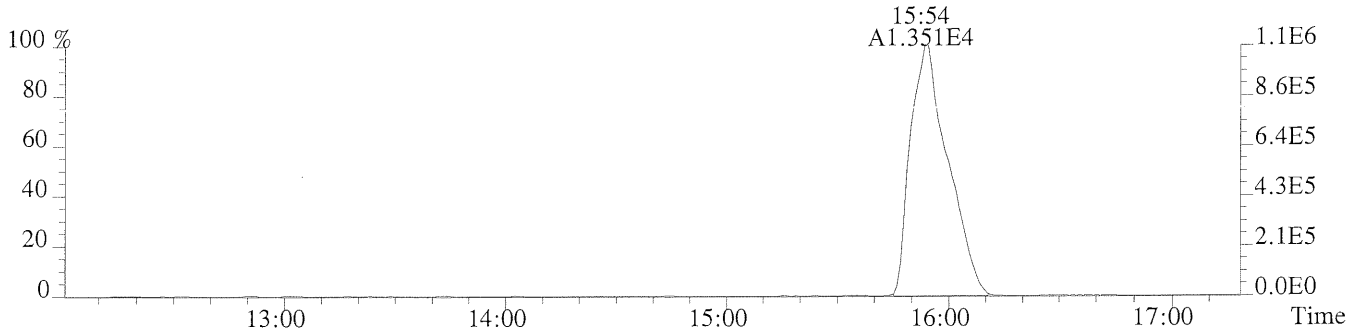
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,190872.0,1.00%,F,T)



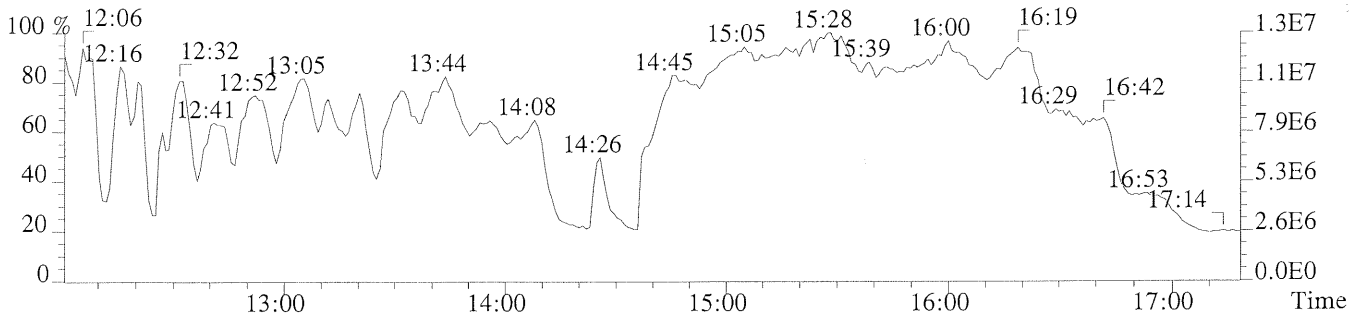
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1132.0,1.00%,F,T)



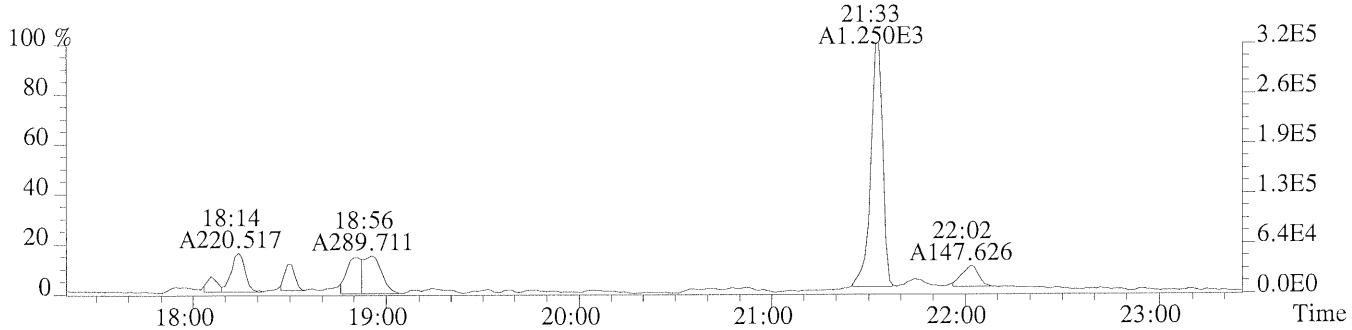
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1304.0,1.00%,F,T)



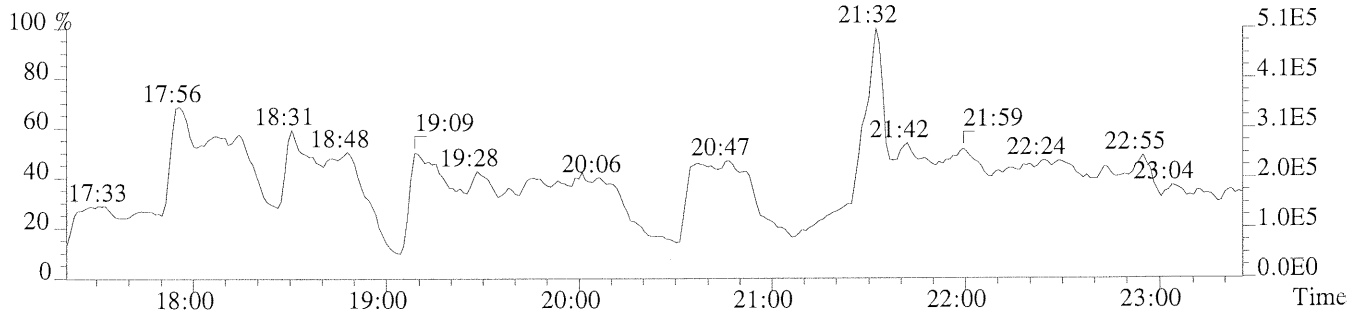
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



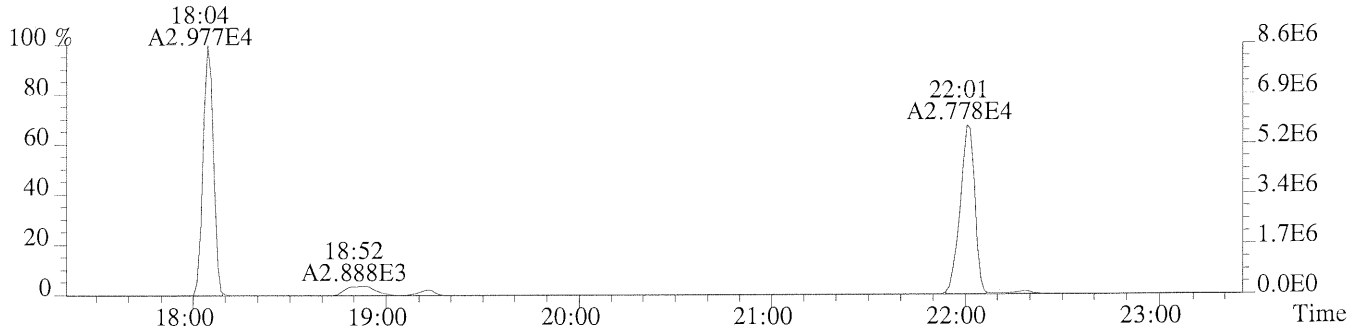
File:U142057 #1-336 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5932.0,1.00%,F,T)



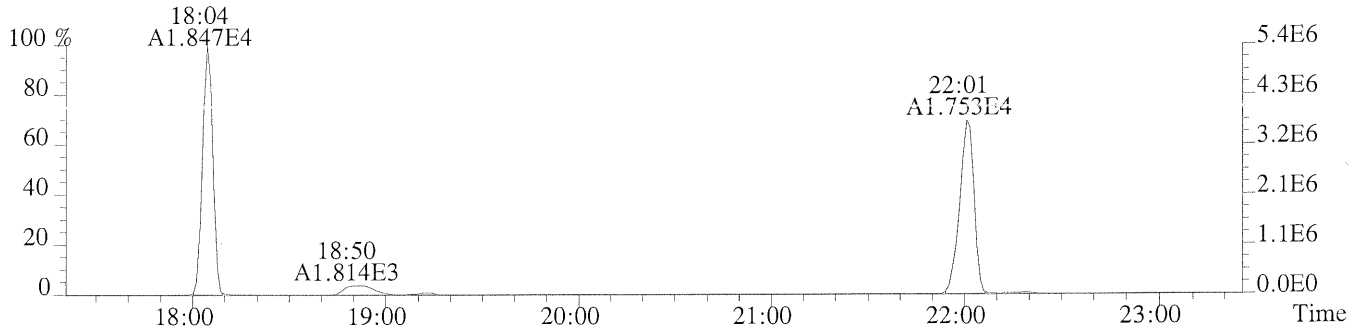
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,259788.0,1.00%,F,T)



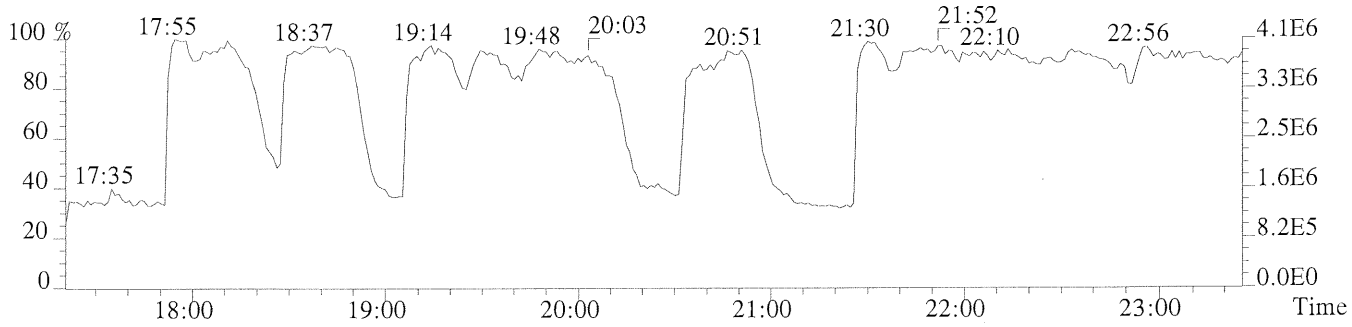
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1692.0,1.00%,F,T)



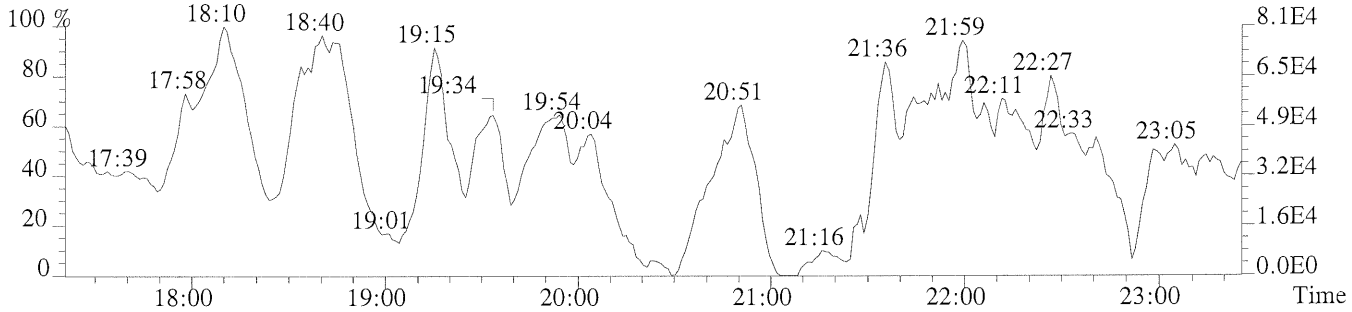
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1420.0,1.00%,F,T)



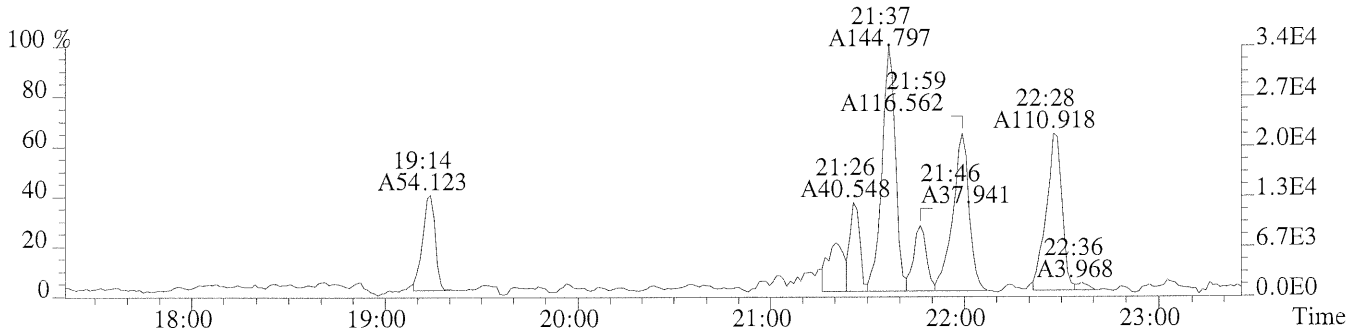
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



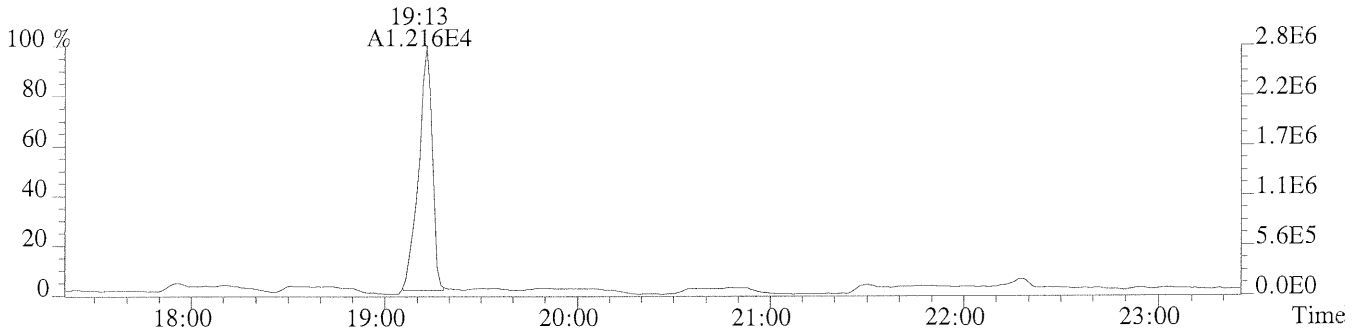
File:U142057 #1-336 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,48676.0,1.00%,F,T)



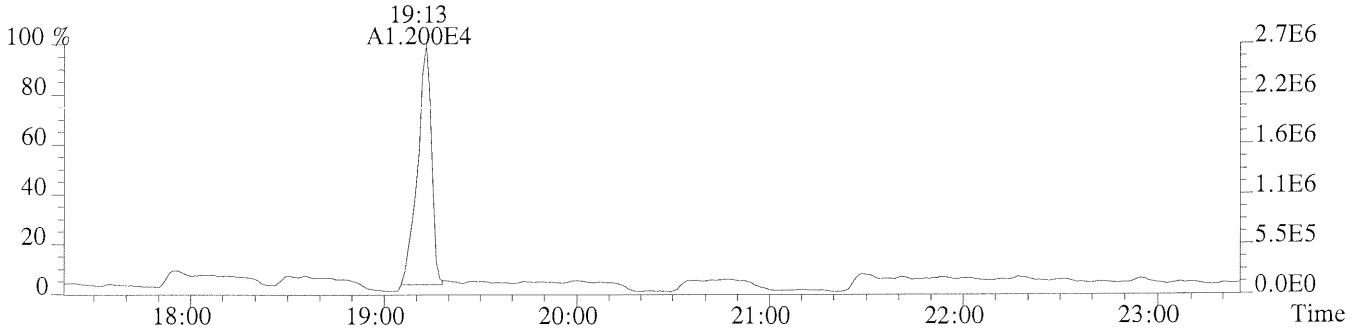
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1600.0,1.00%,F,T)



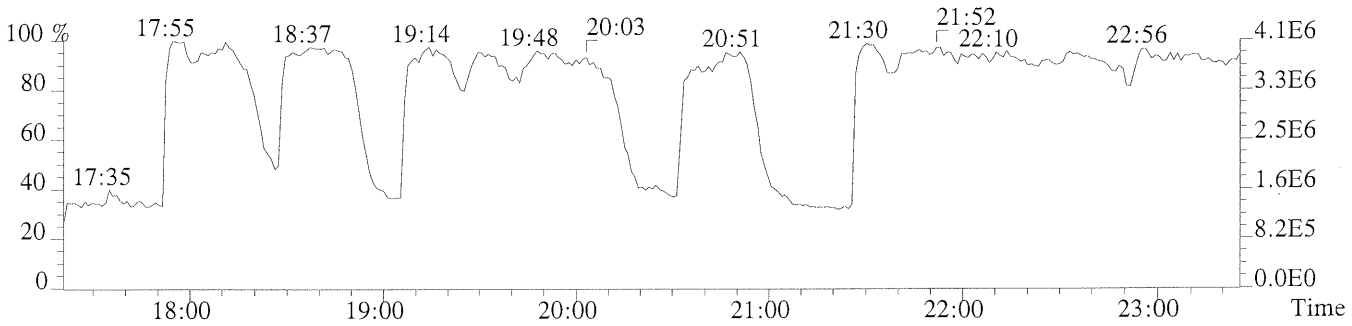
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,100340.0,1.00%,F,T)



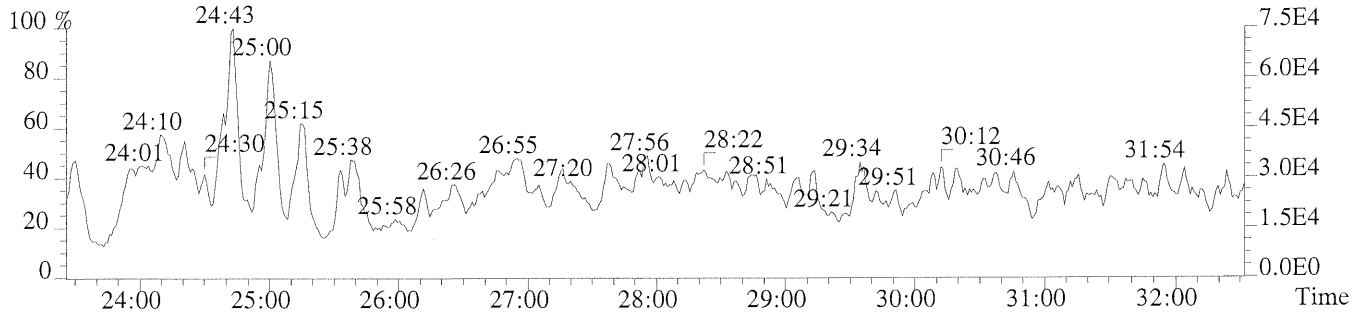
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,171268.0,1.00%,F,T)



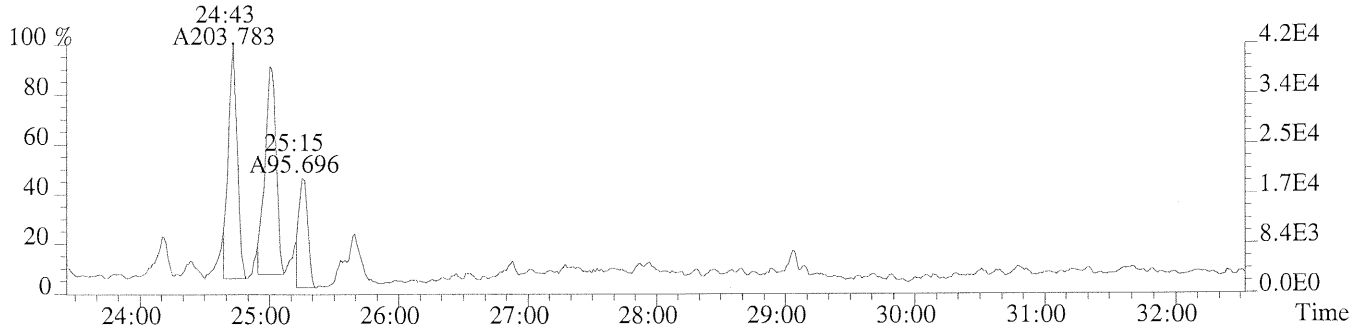
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



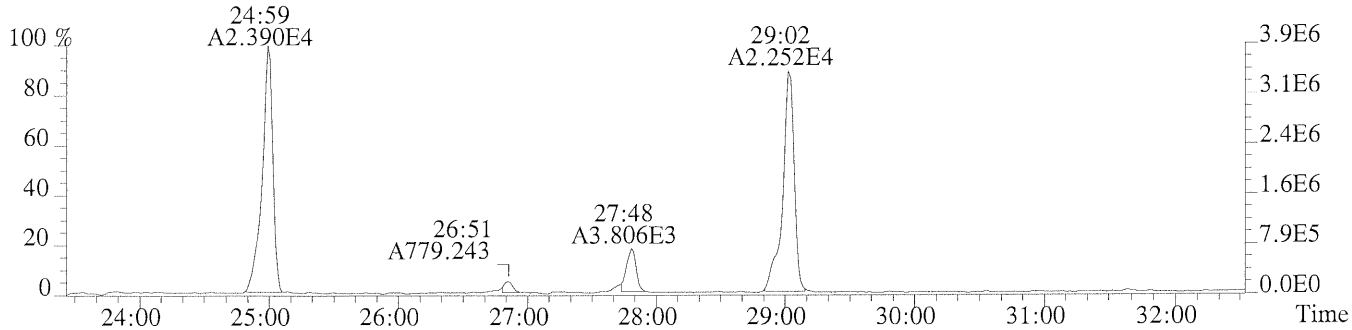
File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,34568.0,1.00%,F,T)



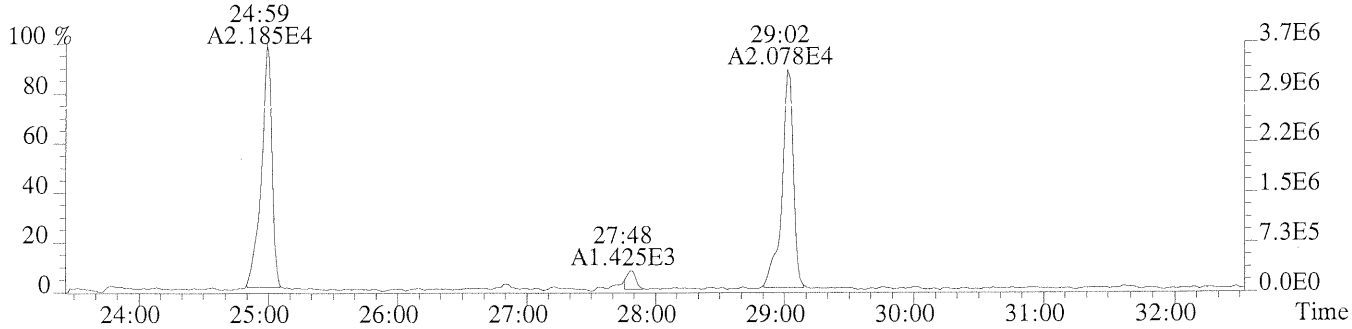
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4608.0,1.00%,F,T)



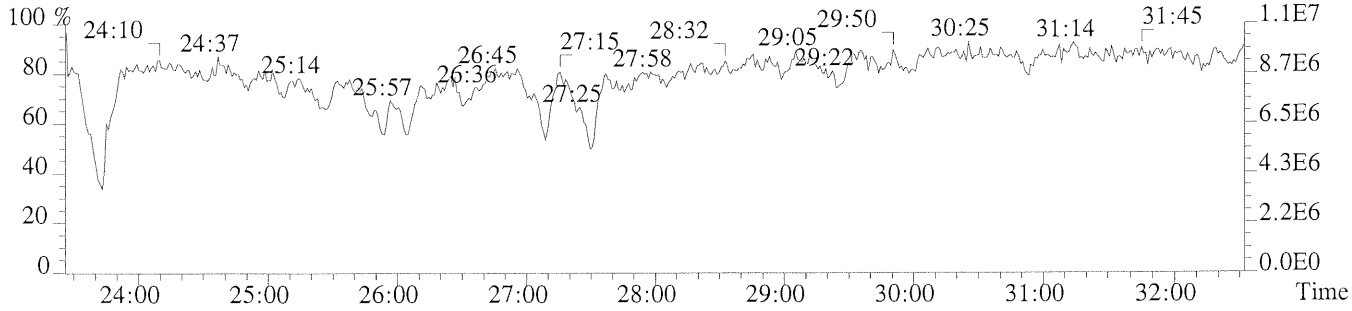
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,53976.0,1.00%,F,T)



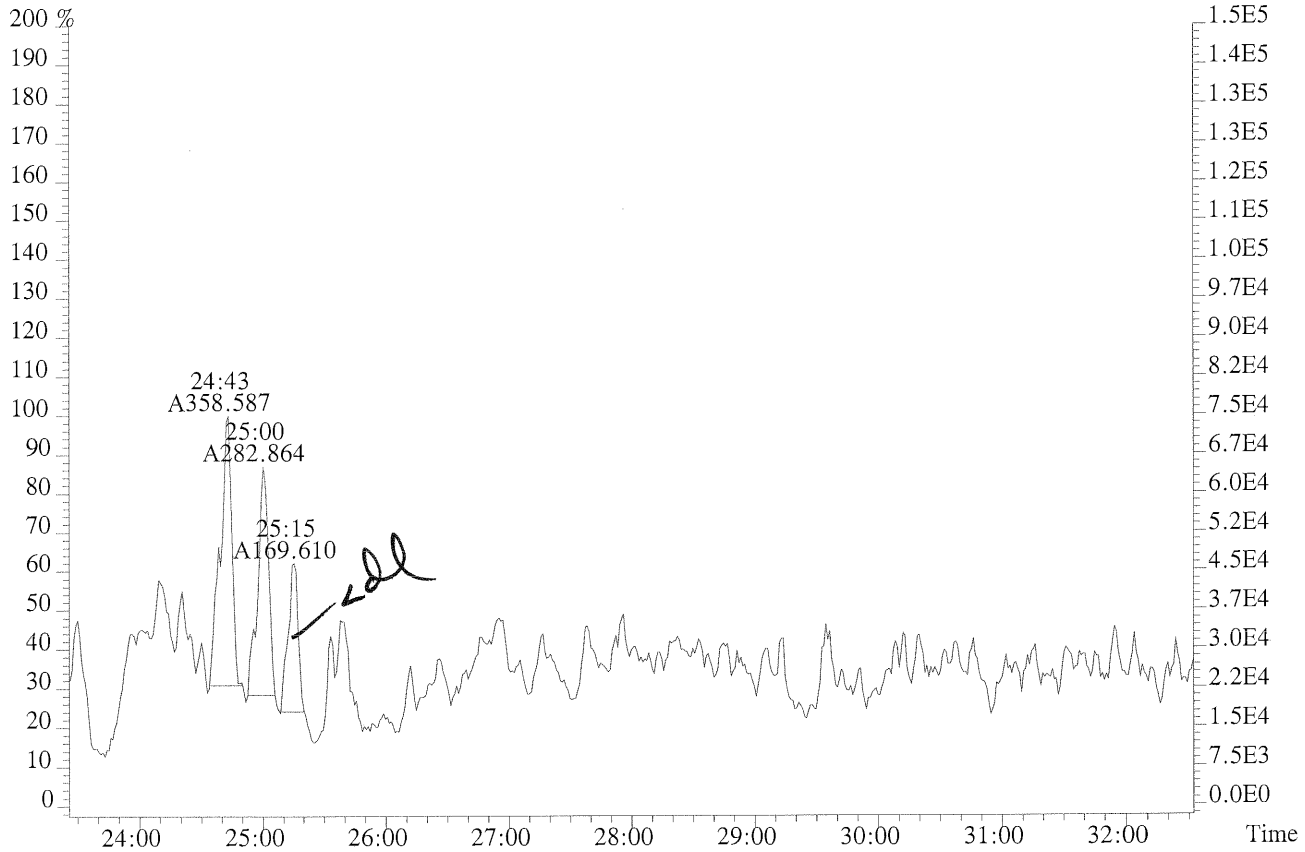
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,74560.0,1.00%,F,T)



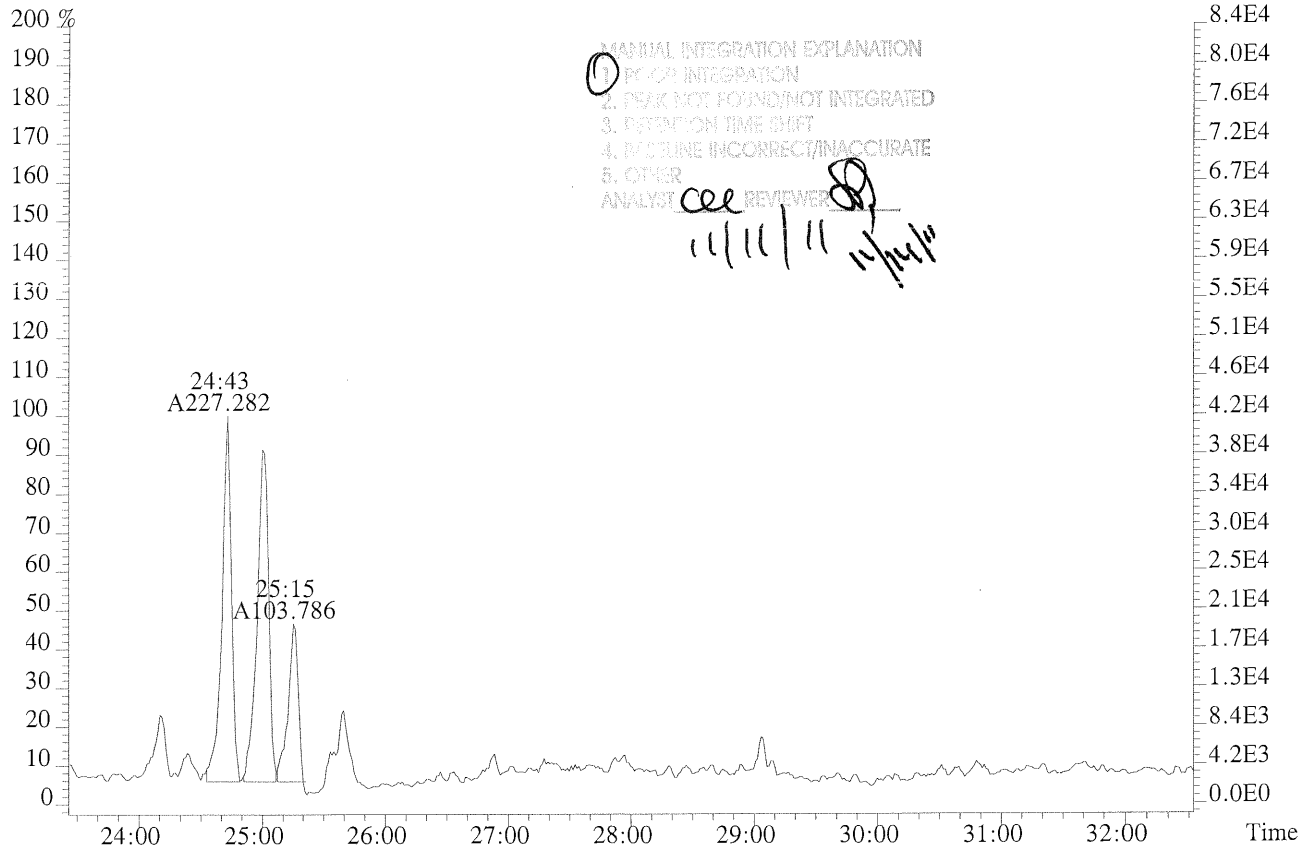
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,34568.0,1.00%,F,T)

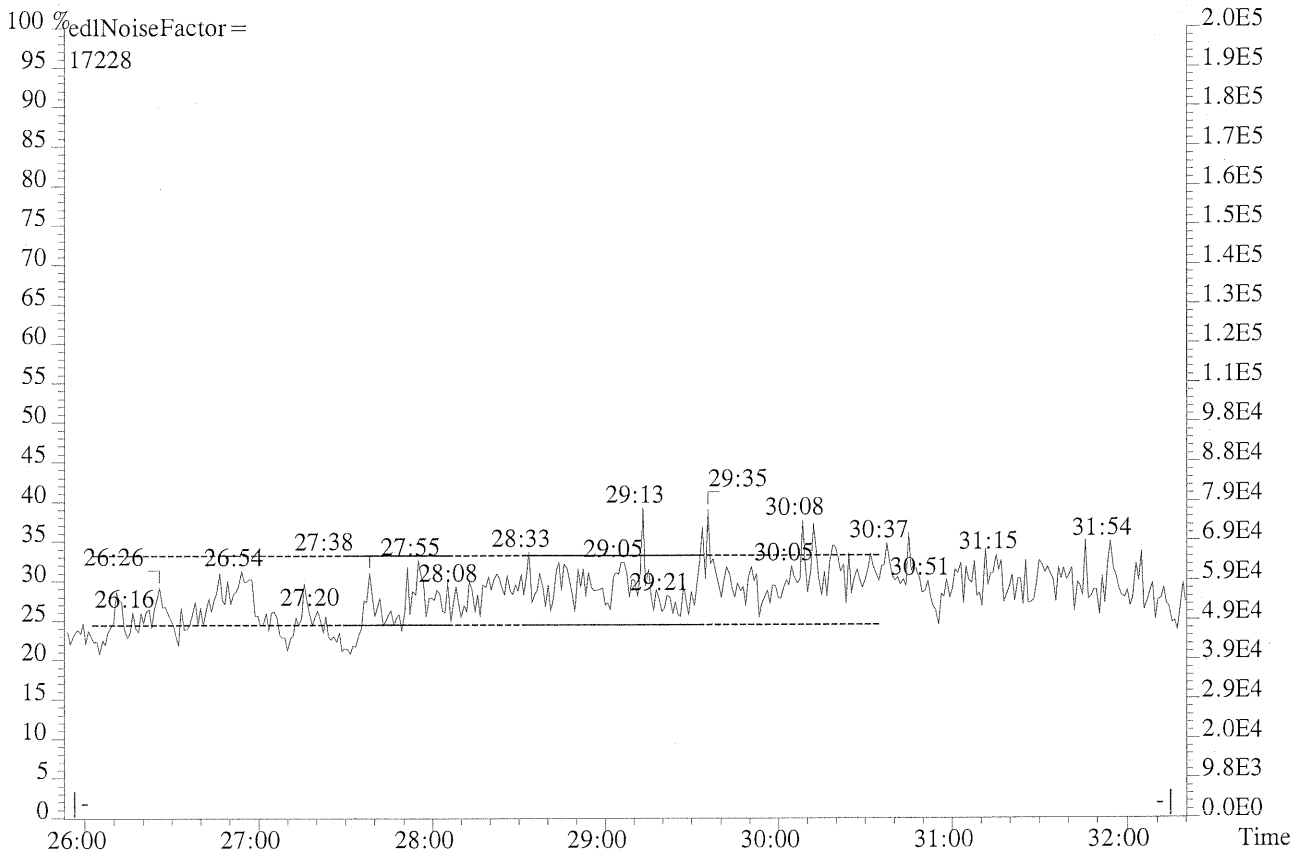


257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0)

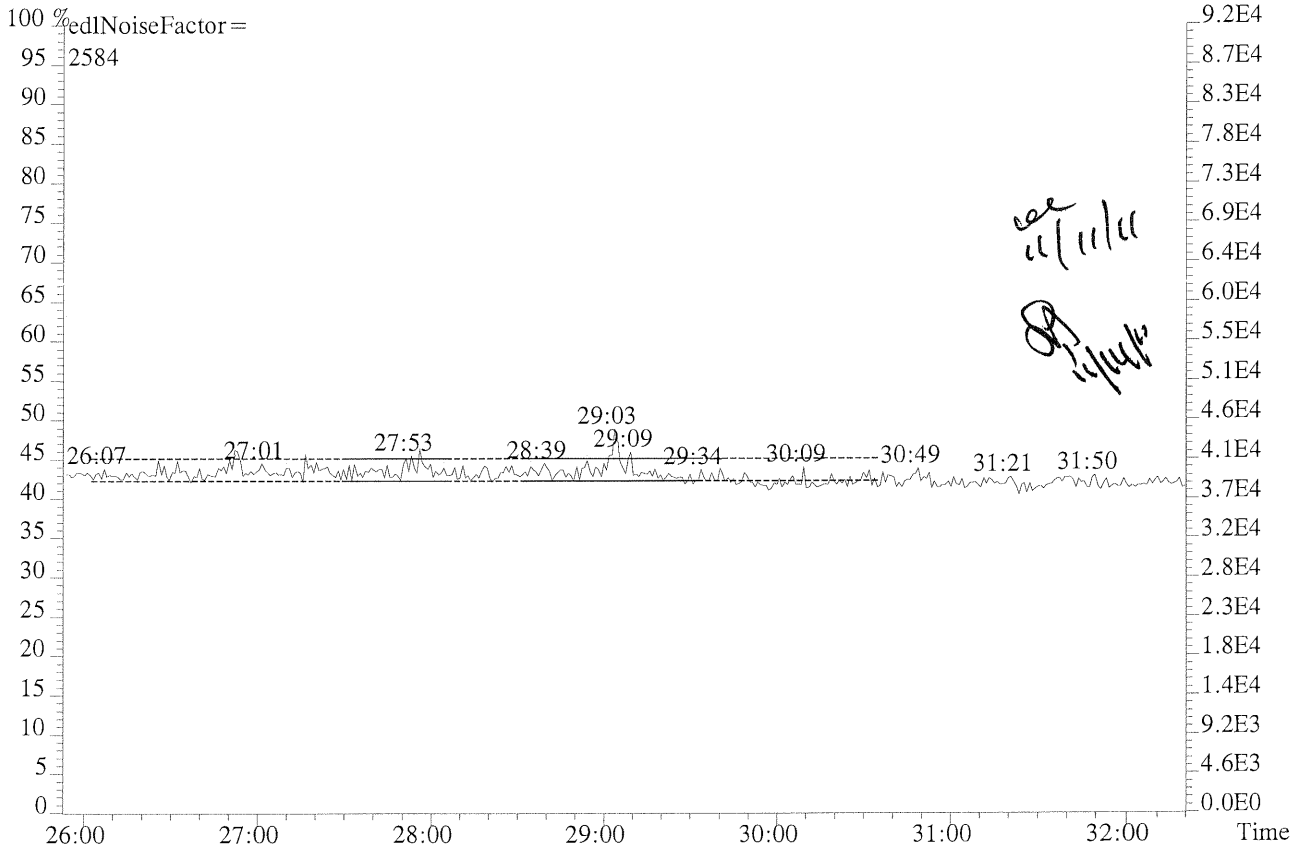


MANUAL INTEGRATION EXPLANATION
1. PROPER INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. PEAK TUNE INCORRECT/INACCURATE
5. OTHER
ANALYST CEE REVIEWER
11/11/11 11/11/11

File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
255.9613 F:3

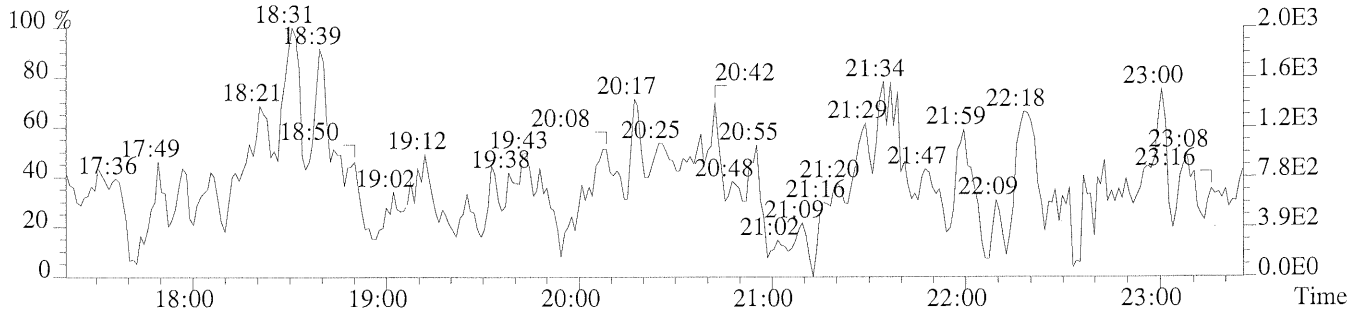


257.9584 F:3

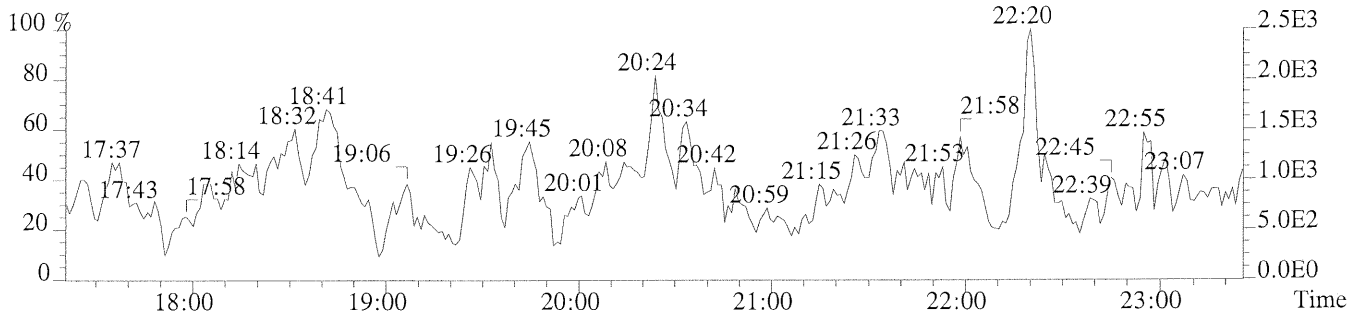


11/11/11

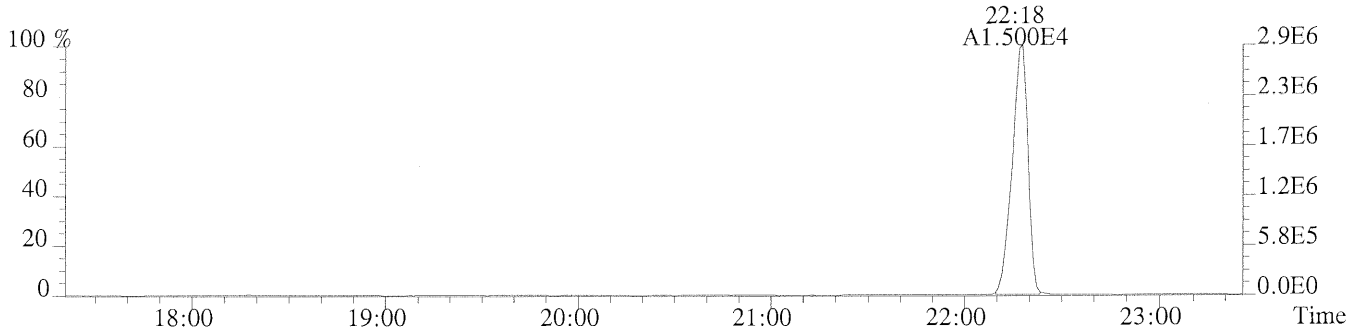
File:U142057 #1-336 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,856.0,1.00%,F,T)



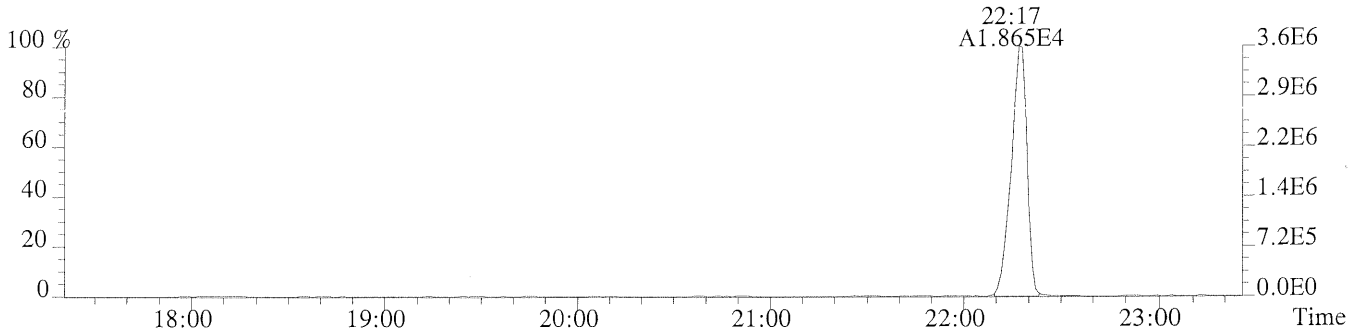
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1128.0,1.00%,F,T)



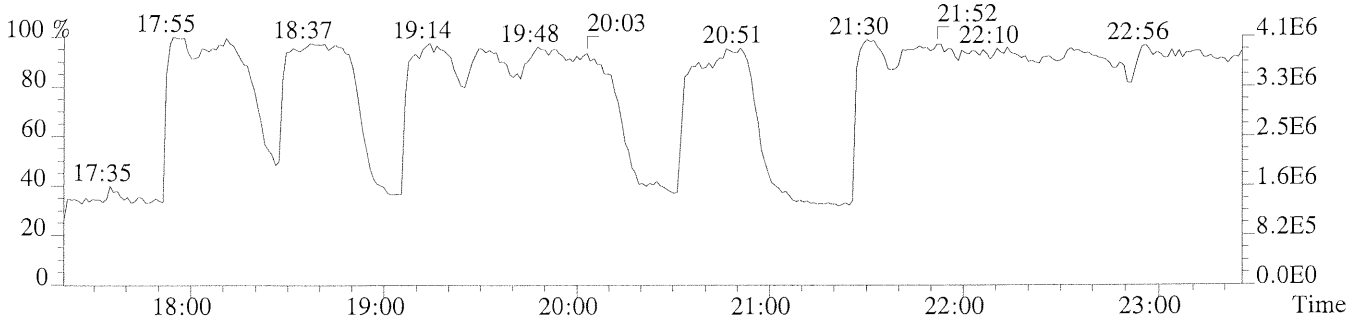
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7220.0,1.00%,F,T)



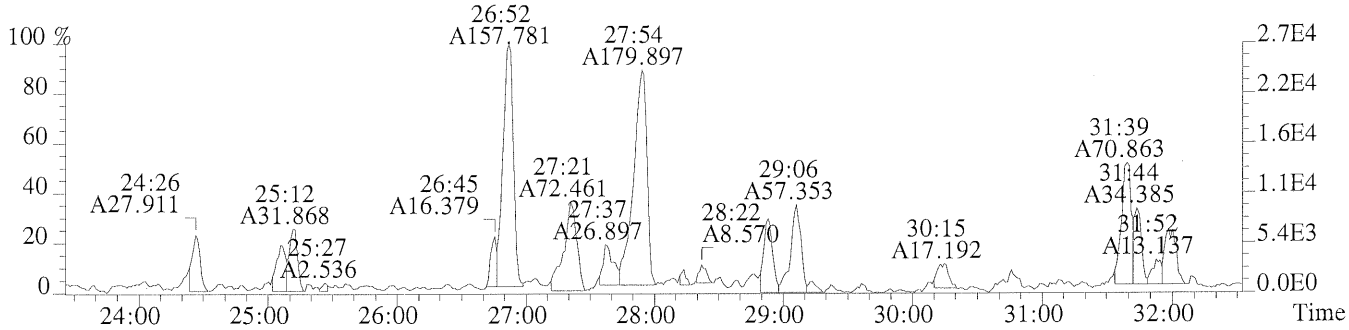
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4840.0,1.00%,F,T)



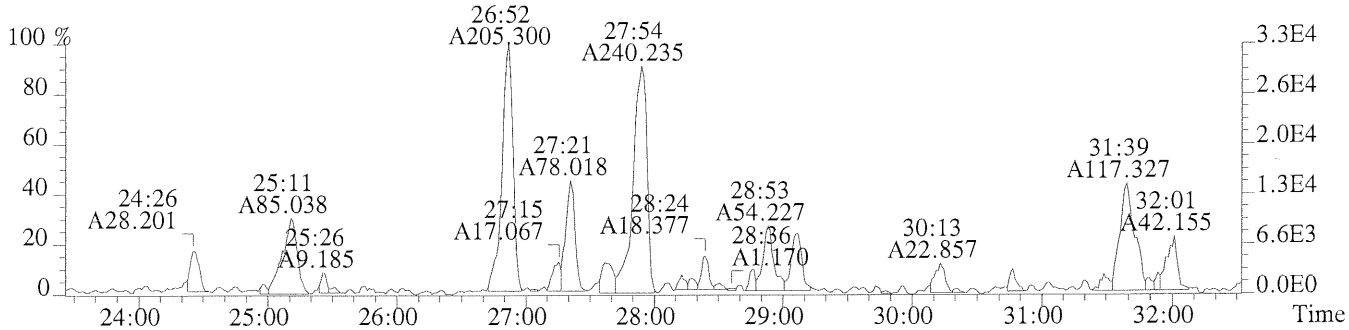
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



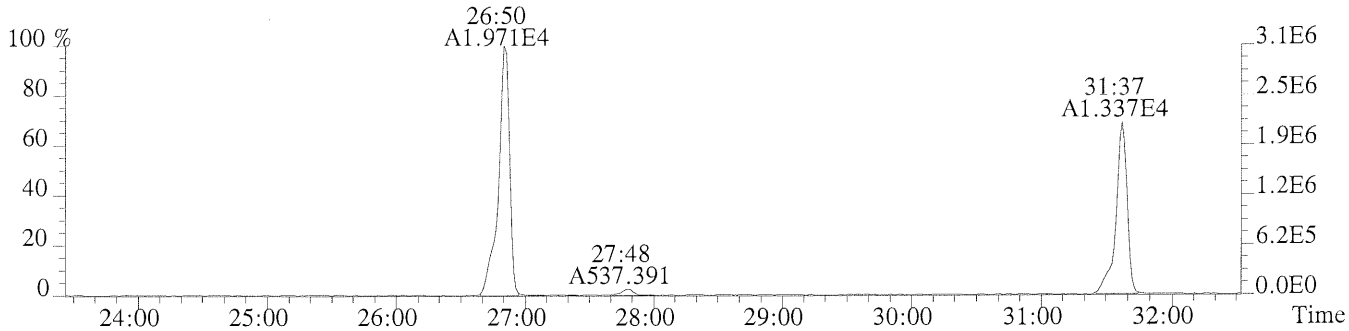
File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)



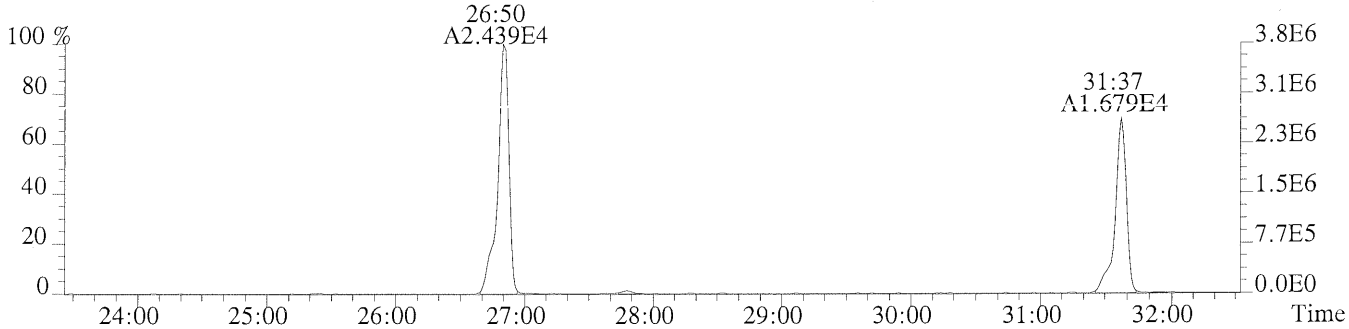
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,792.0,1.00%,F,T)



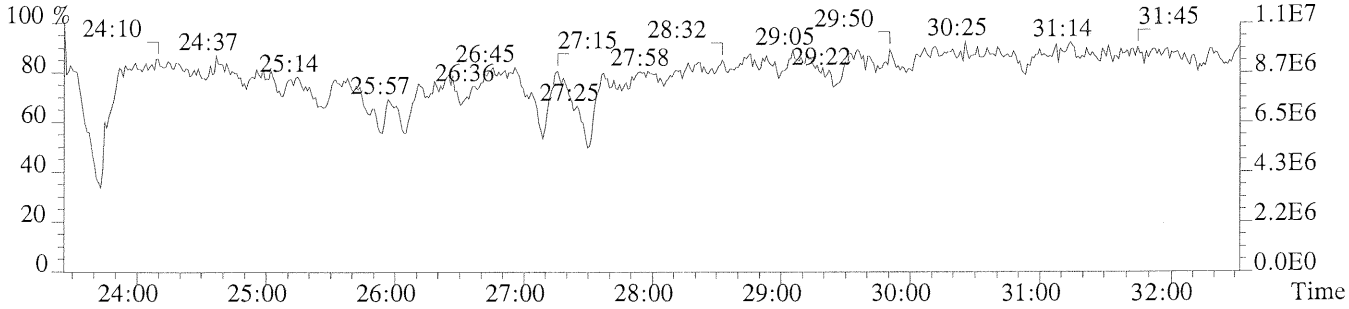
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5488.0,1.00%,F,T)



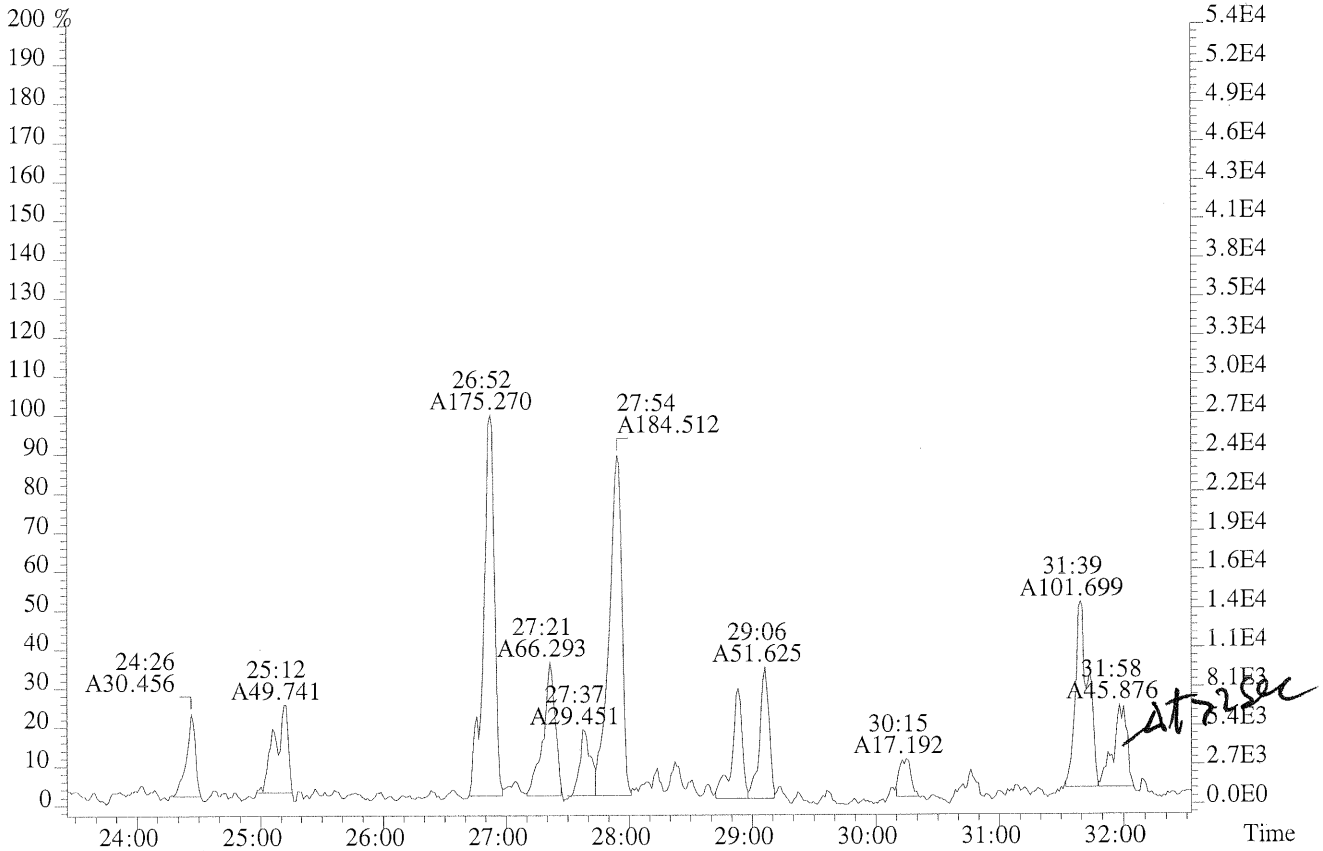
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4500.0,1.00%,F,T)



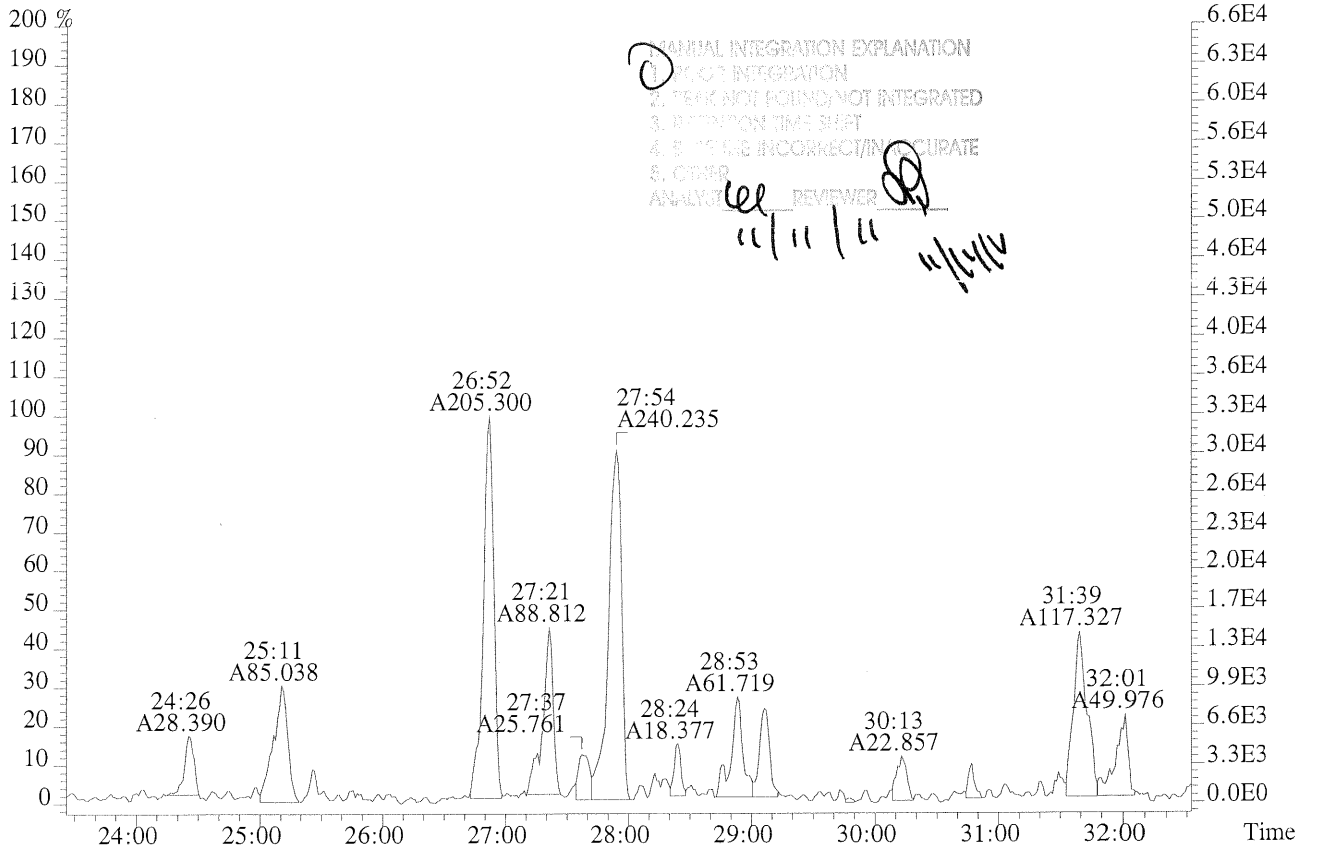
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)

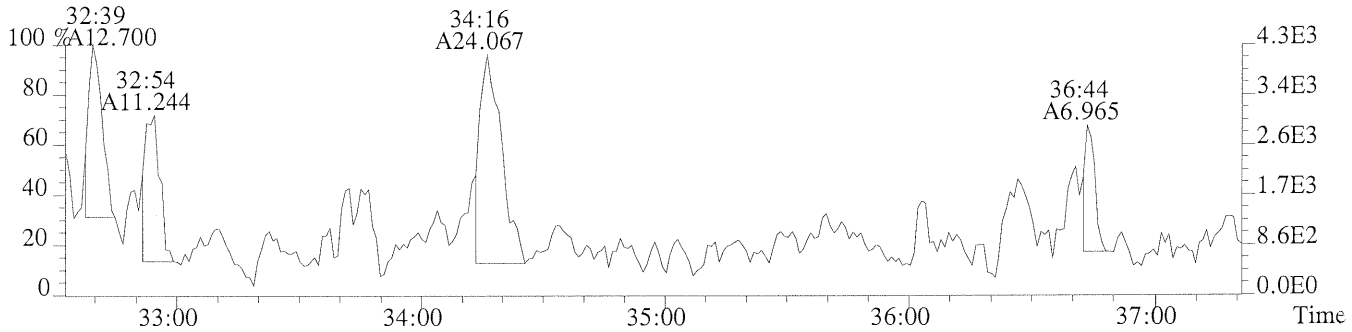


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,792.0,1.00%,F,T)

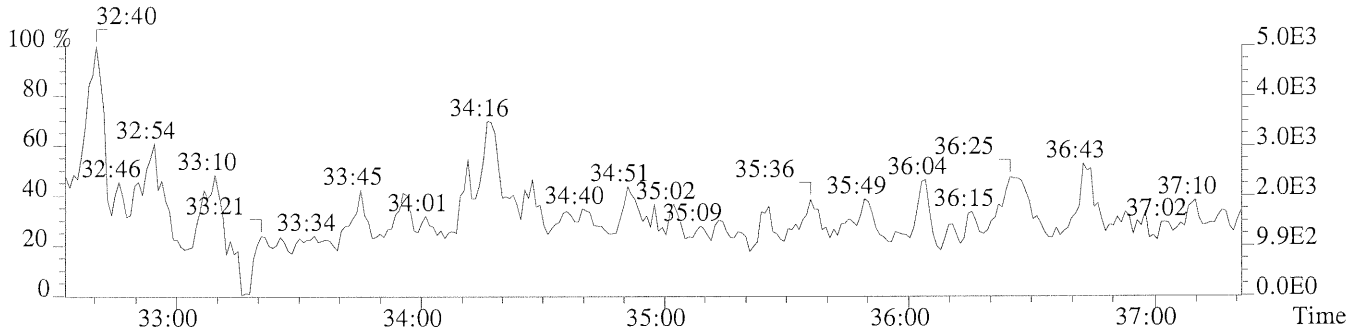


File:U142057 #1-308 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

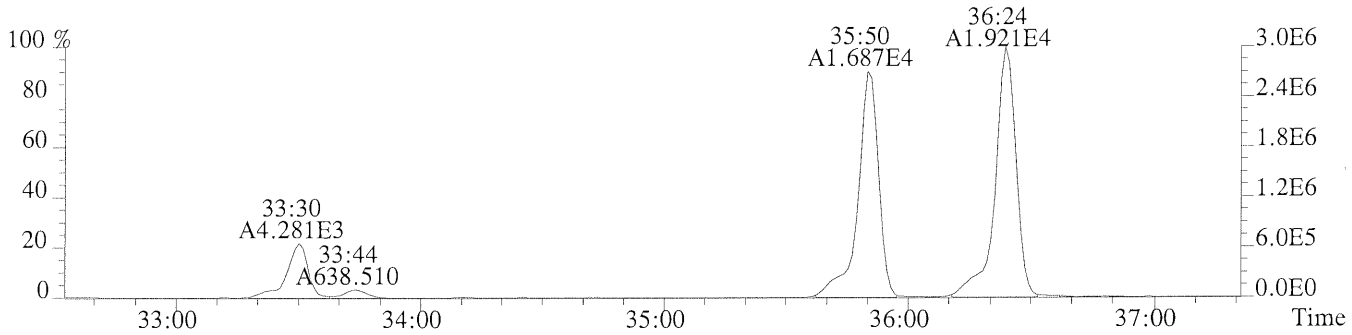
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



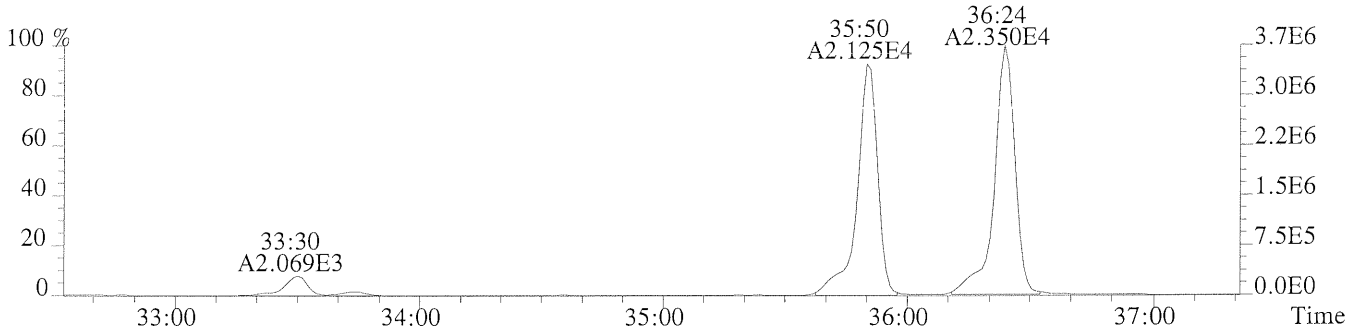
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2016.0,1.00%,F,T)



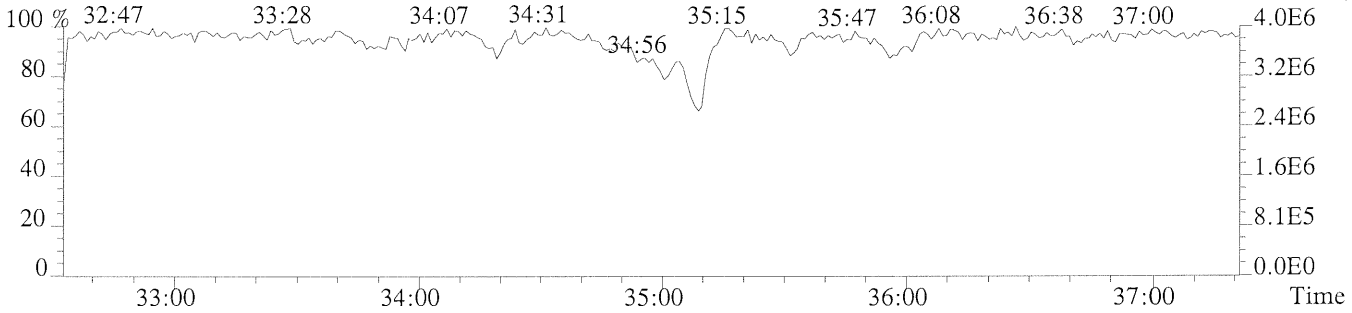
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2864.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3768.0,1.00%,F,T)

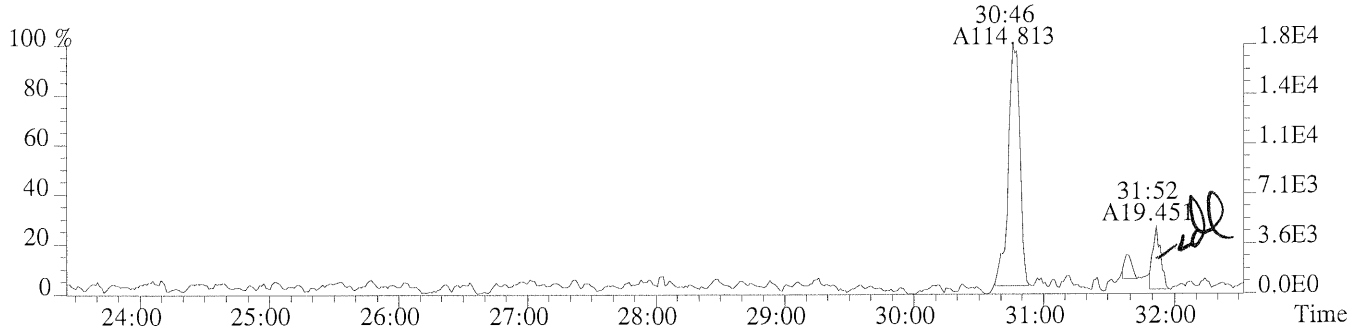


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

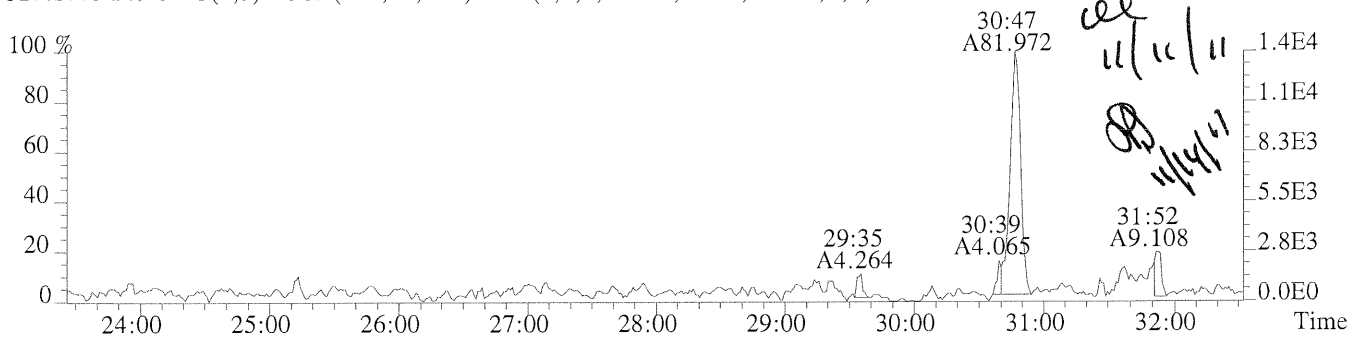


File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

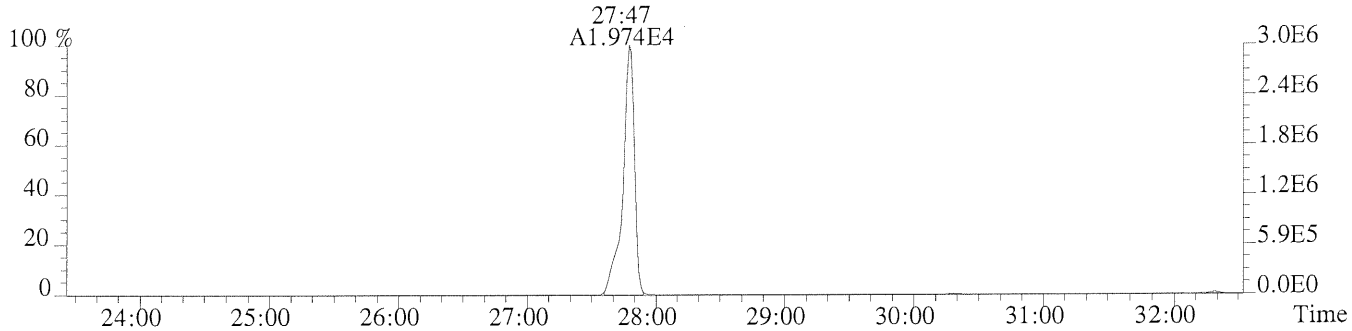
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,764.0,1.00%,F,T)



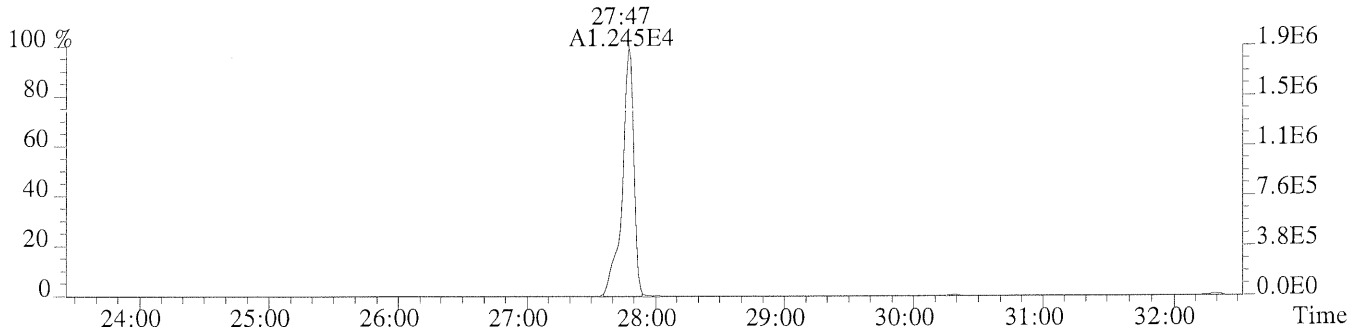
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,684.0,1.00%,F,T)



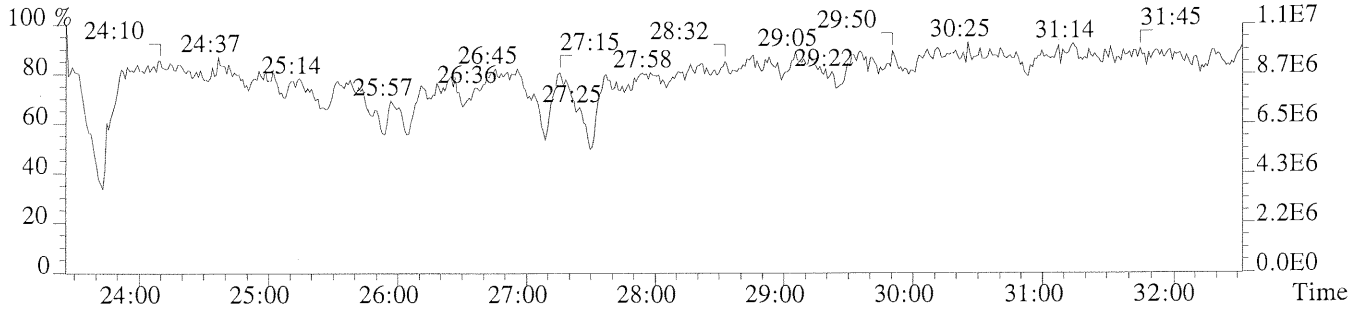
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,740.0,1.00%,F,T)



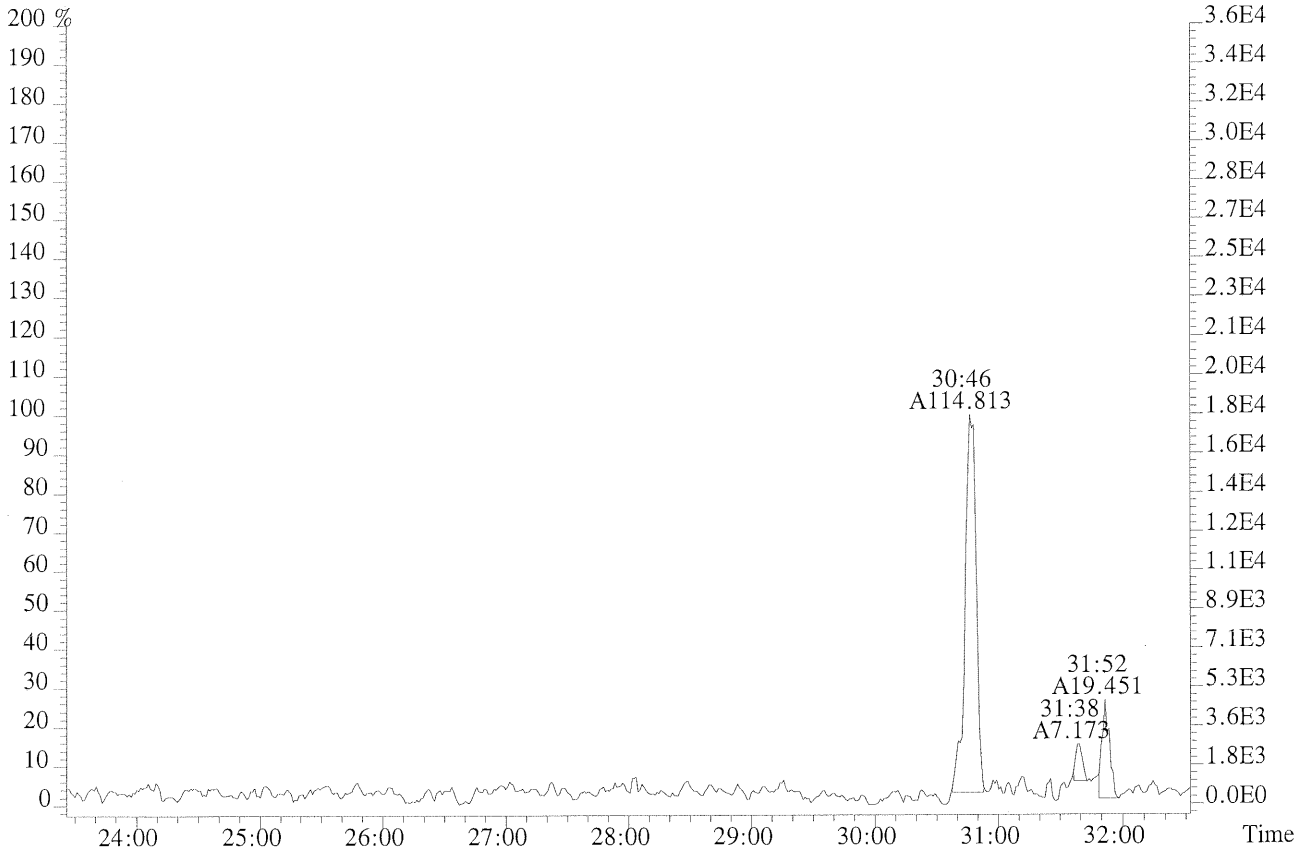
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



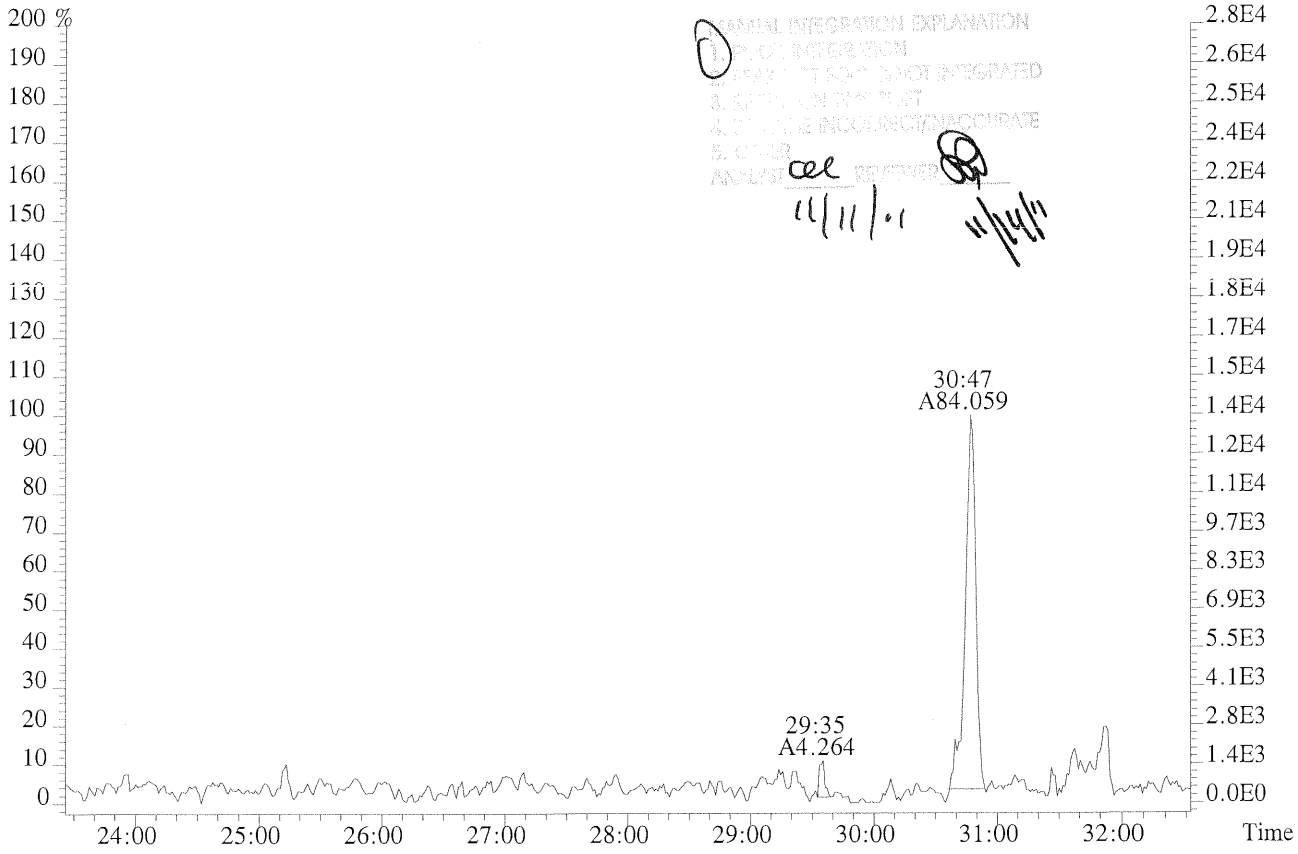
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,764.0,1.00%,F,T)

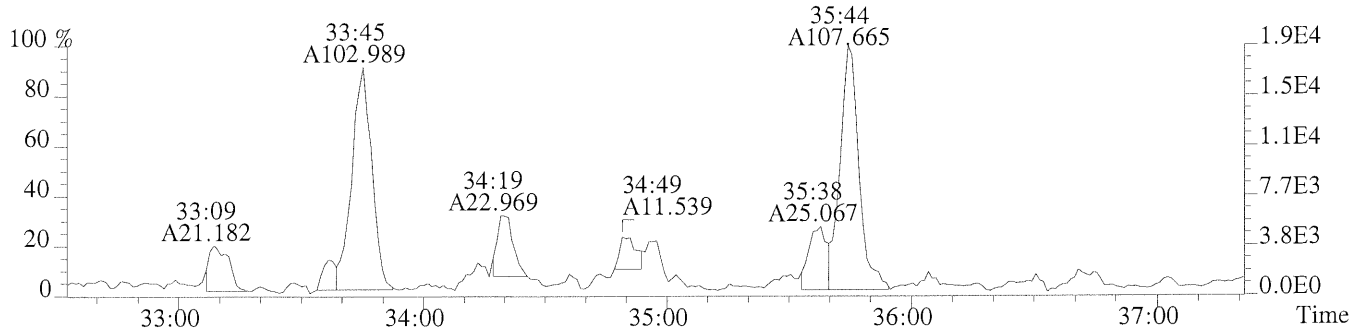


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,684.0,1.00%,F,T)

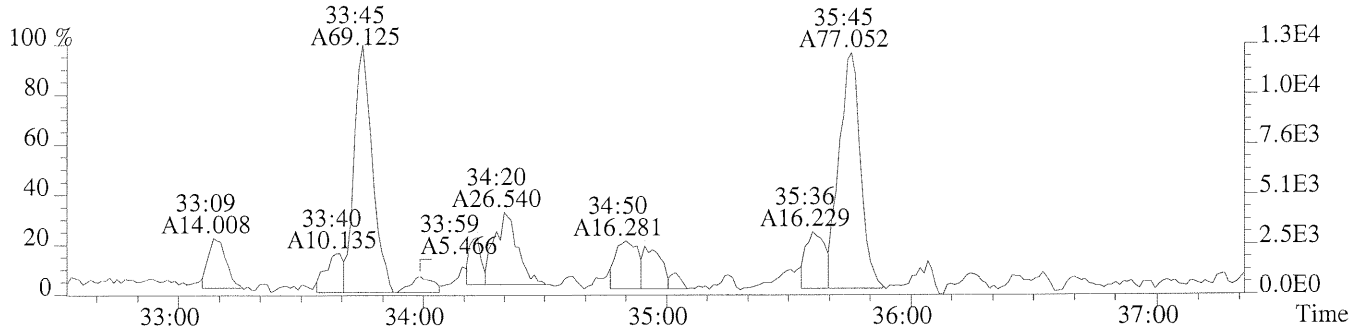


File:U142057 #1-308 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

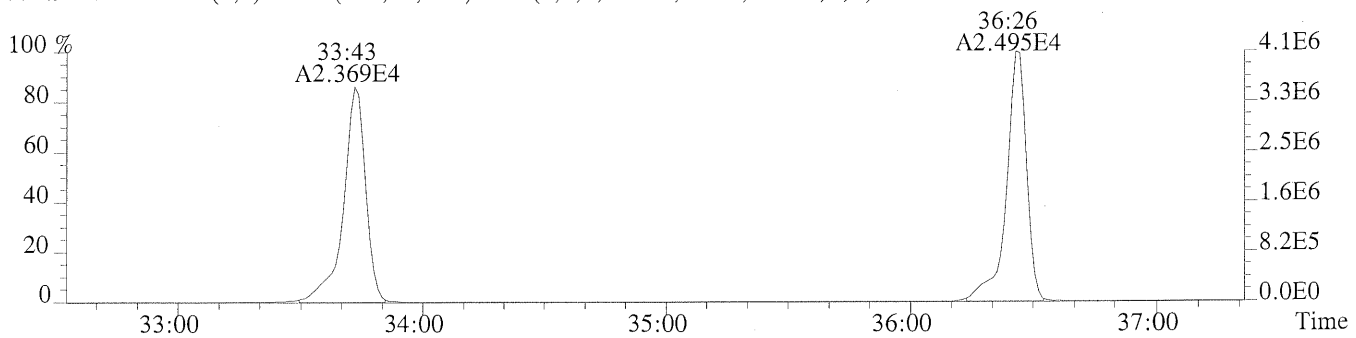
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1108.0,1.00%,F,T)



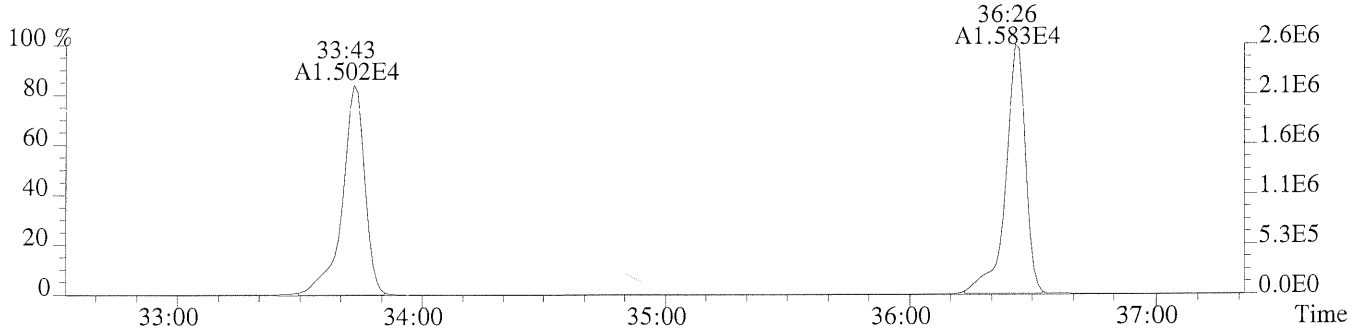
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,816.0,1.00%,F,T)



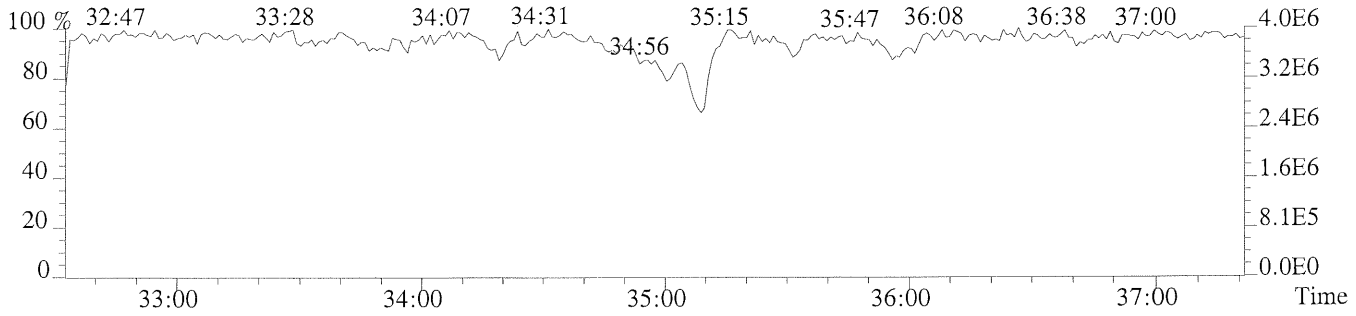
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



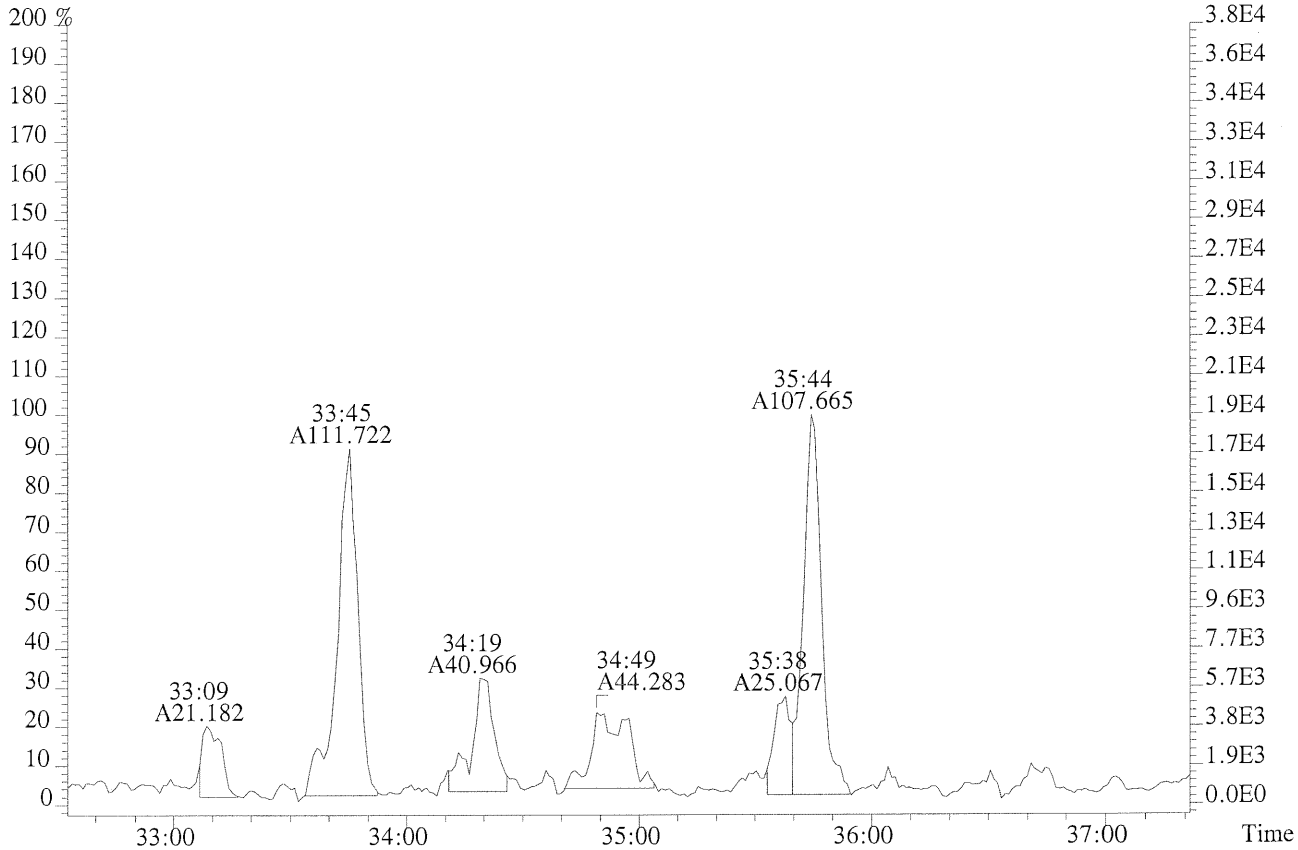
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1308.0,1.00%,F,T)



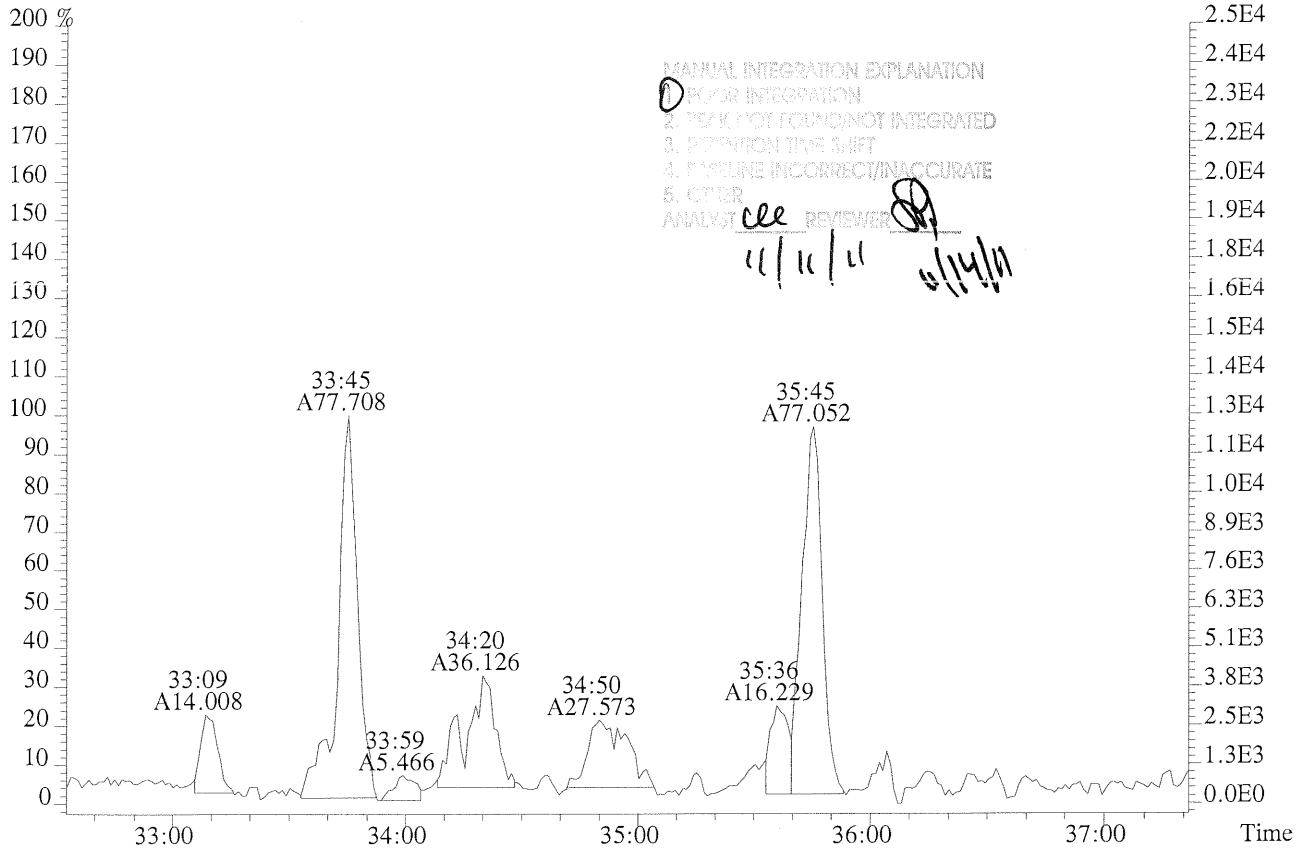
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142057 #1-308 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1108.0,1.00%,F,T)

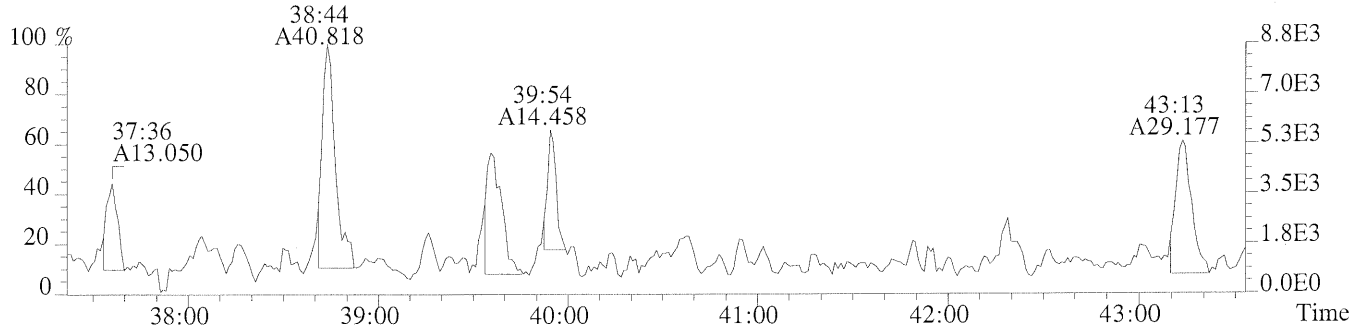


327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,816.0,1.00%,F,T)

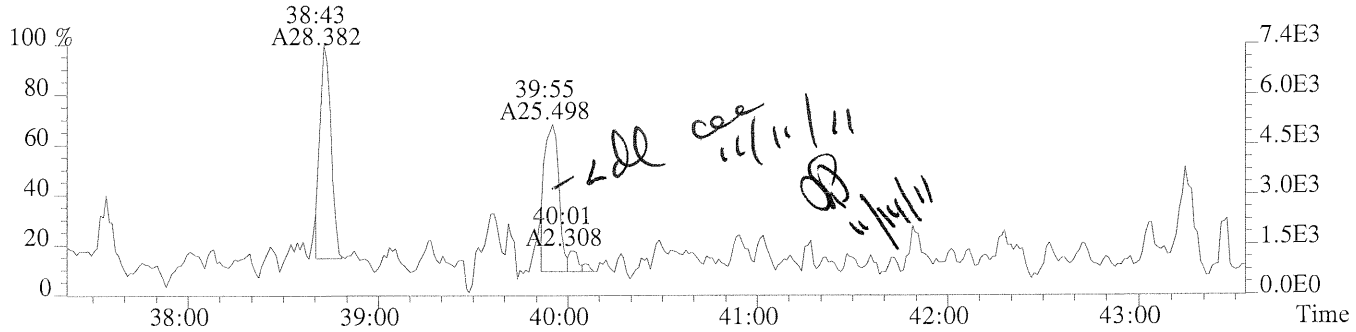


File:U142057 #1-396 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

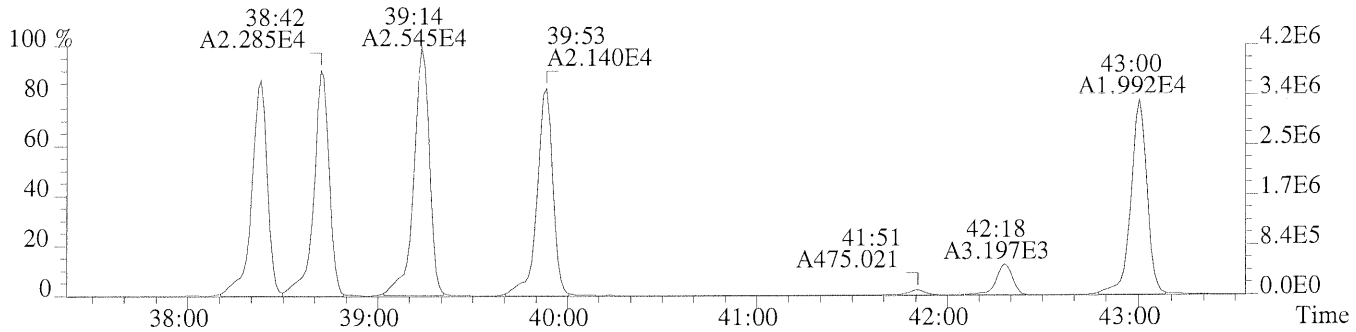
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1476.0,1.00%,F,T)



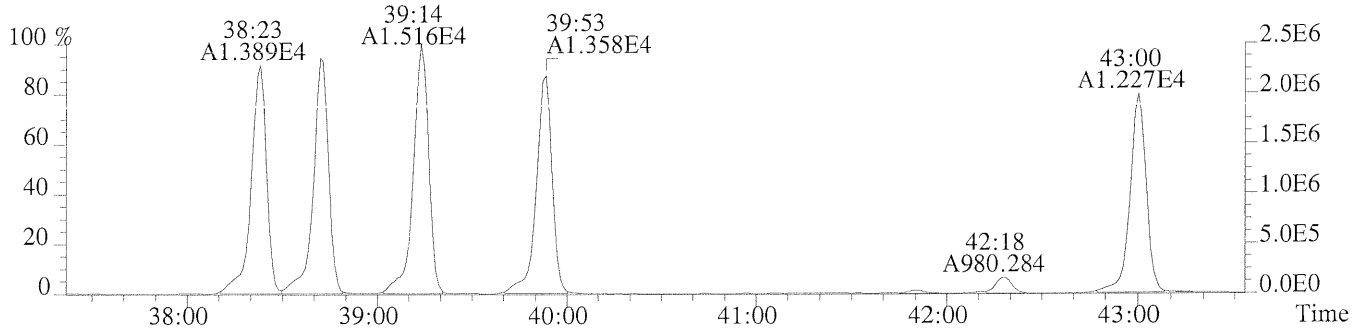
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1444.0,1.00%,F,T)



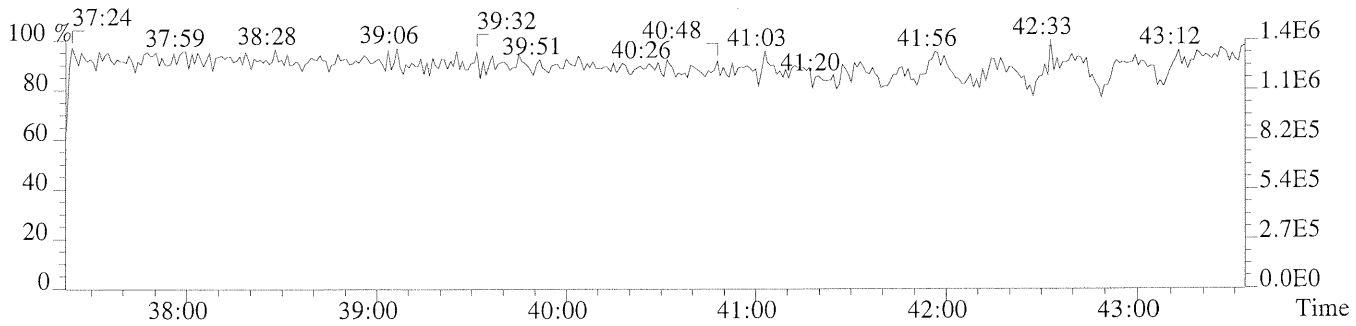
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4500.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4248.0,1.00%,F,T)

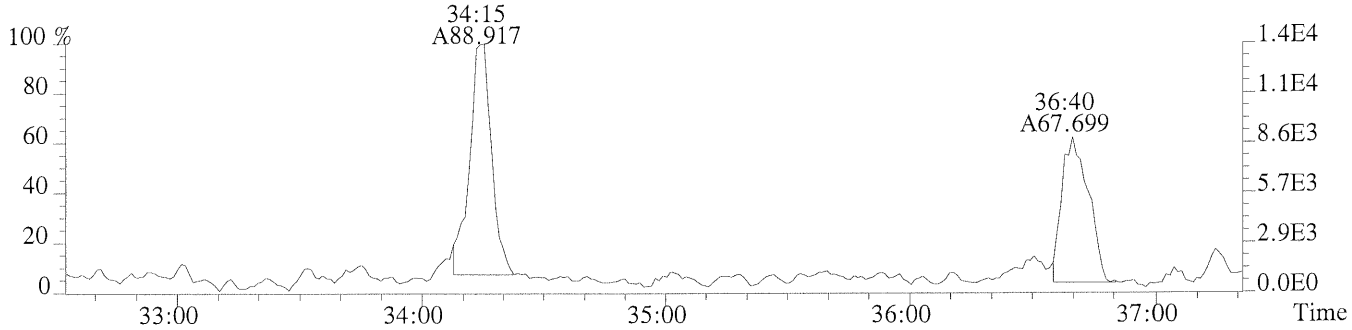


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

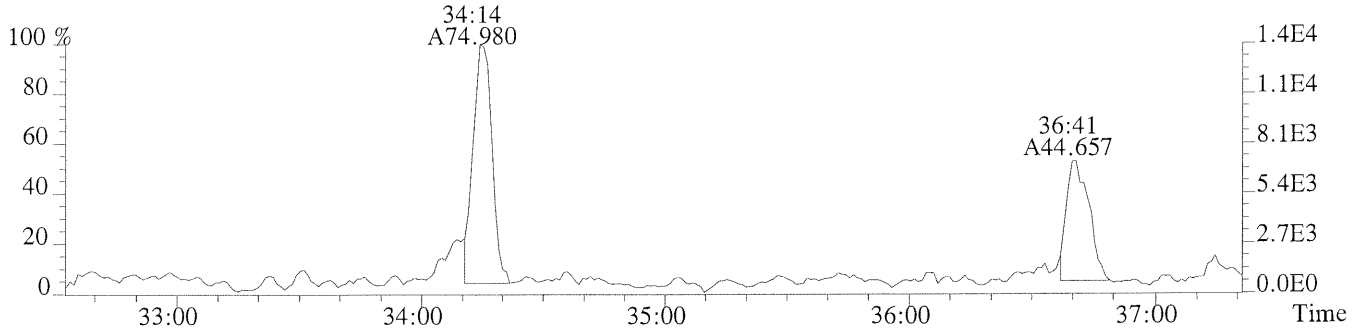


File:U142057 #1-308 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

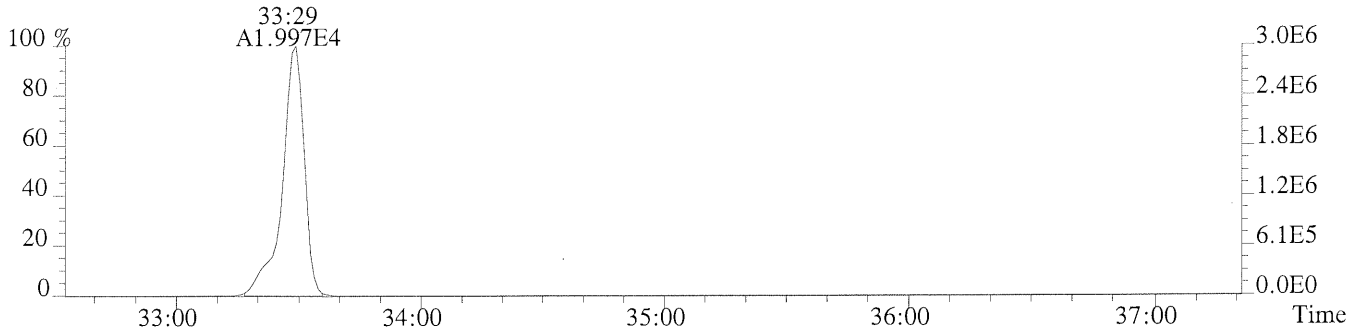
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1148.0,1.00%,F,T)



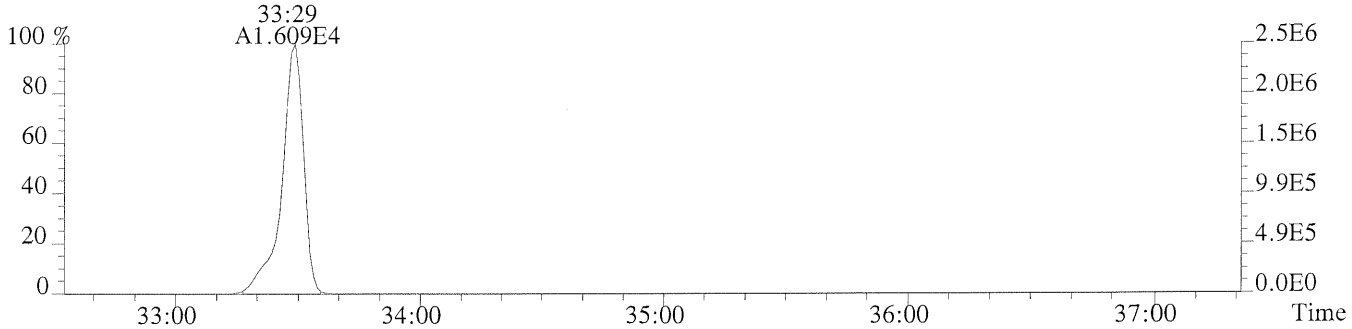
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1020.0,1.00%,F,T)



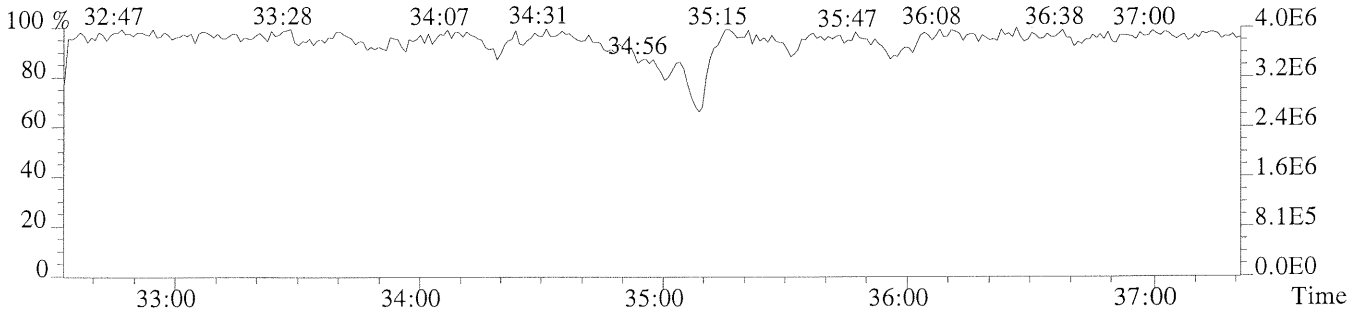
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1160.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1188.0,1.00%,F,T)

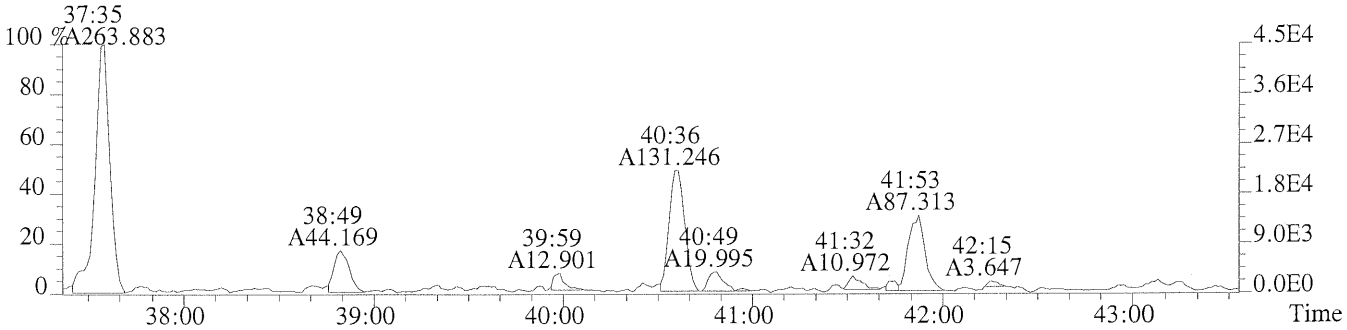


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

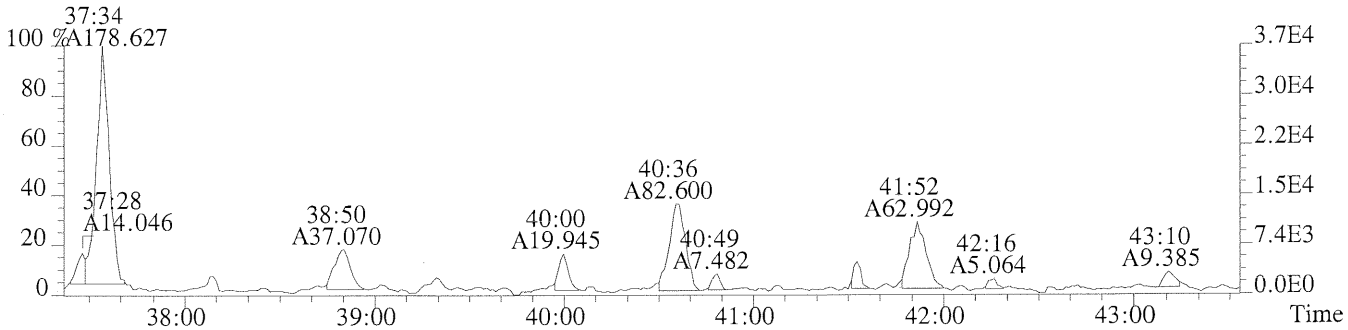


File:U142057 #1-396 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

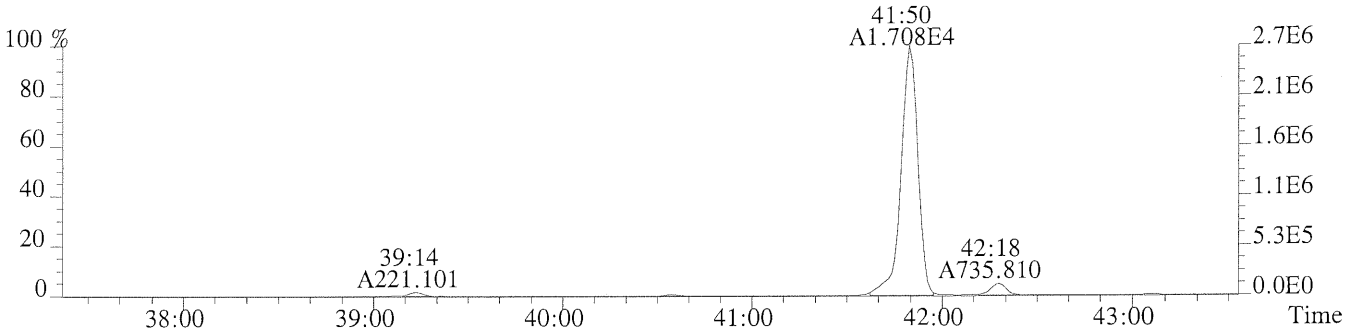
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)



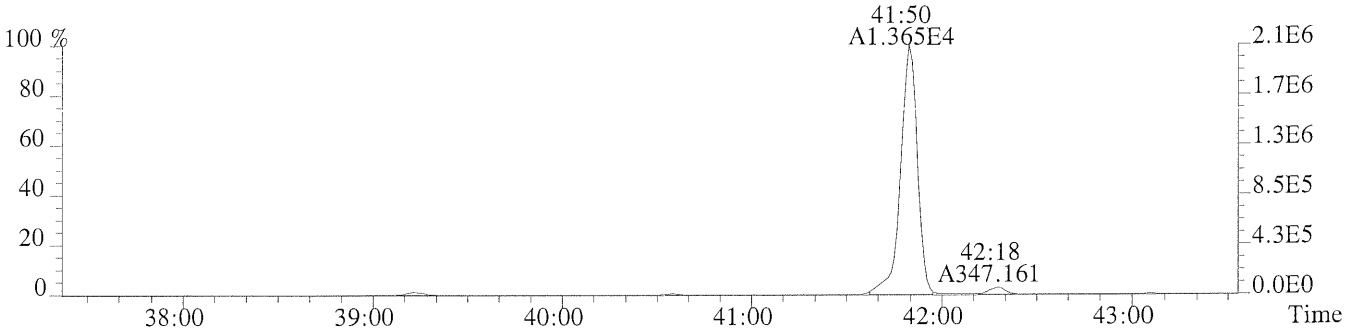
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)



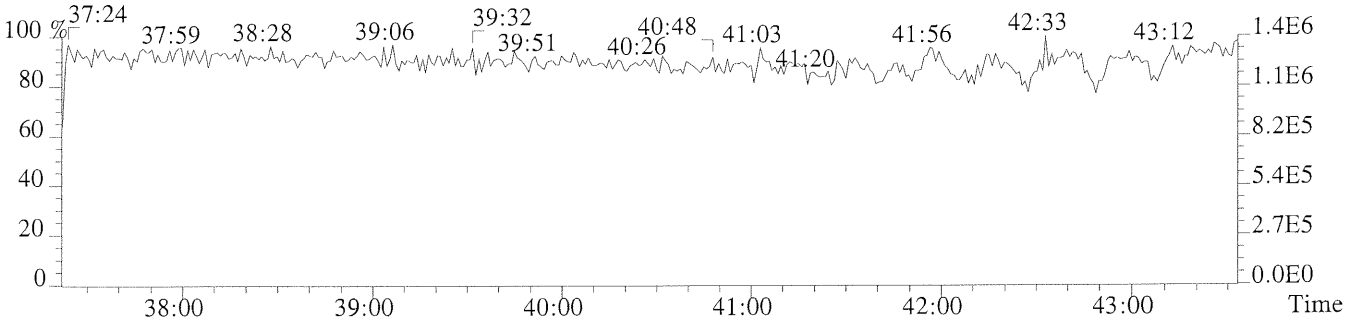
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



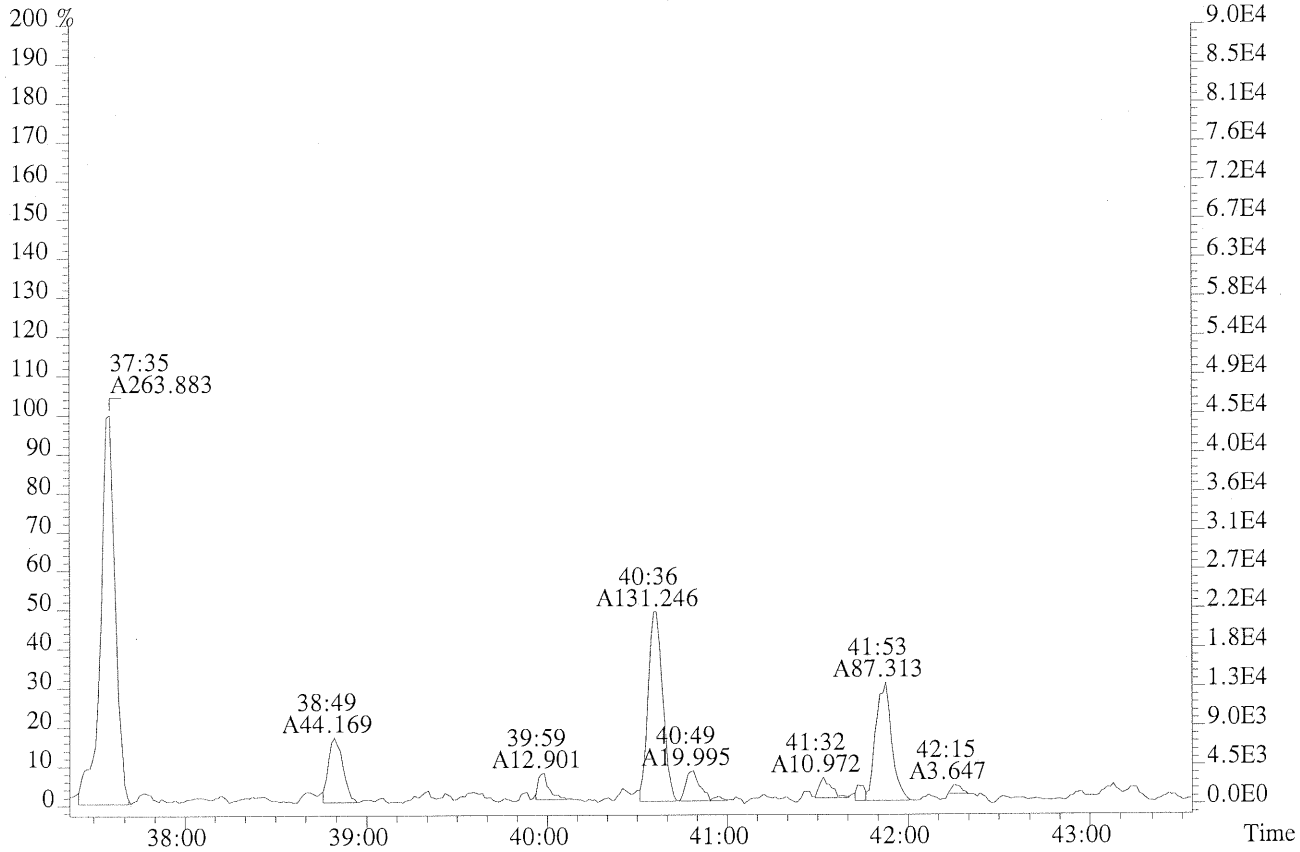
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



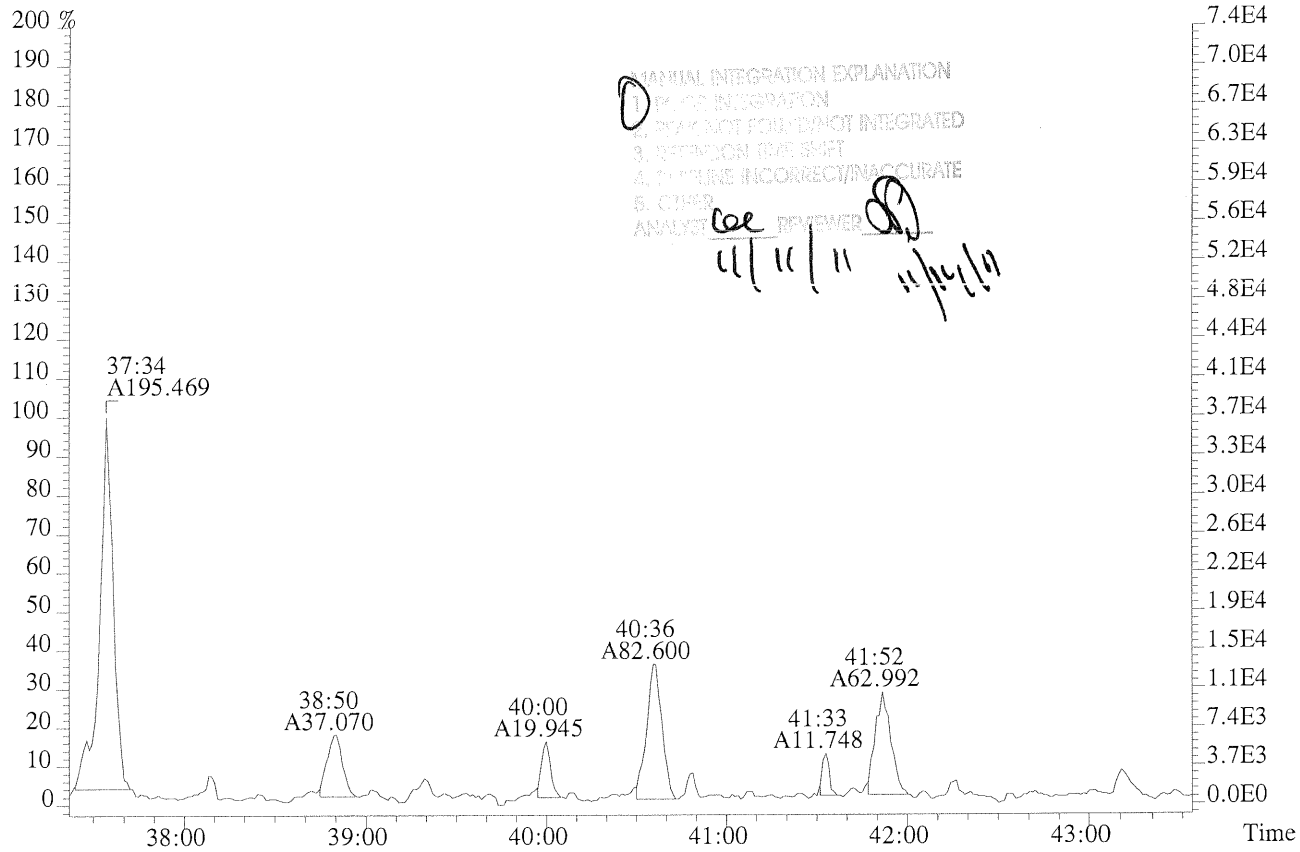
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142057 #1-396 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)

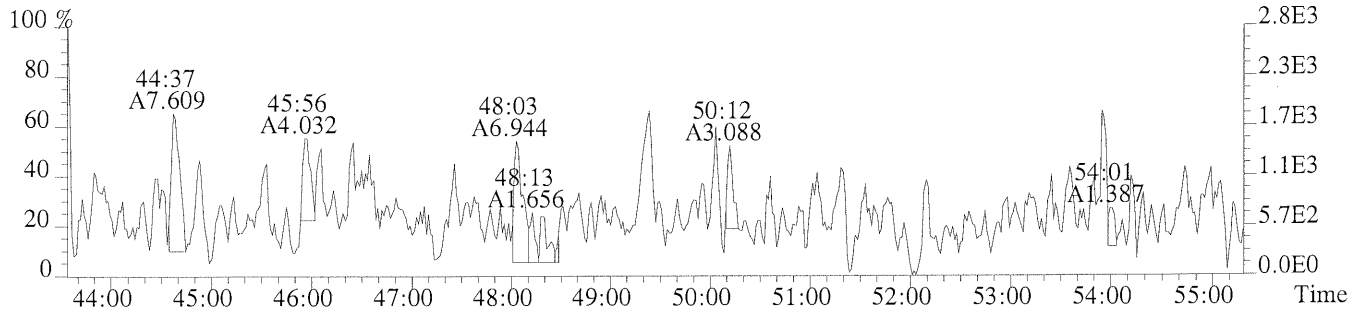


361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)

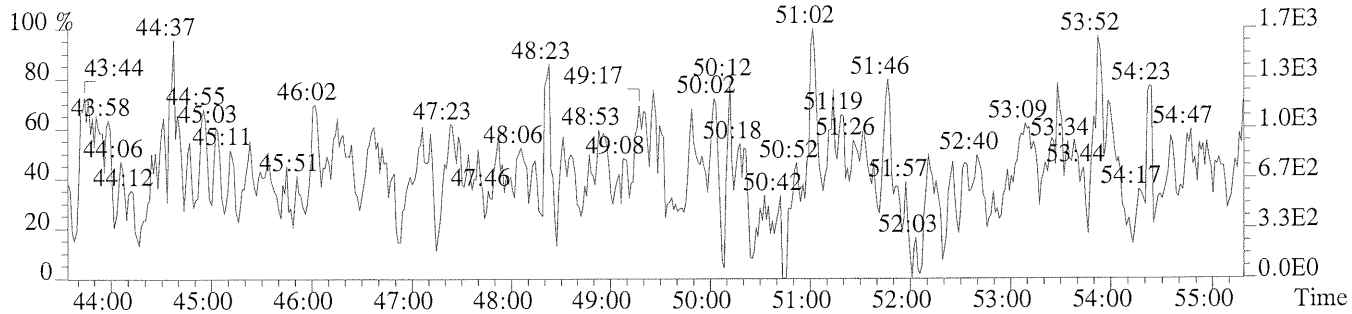


MANUAL INTEGRATION EXPLANATION
1. NO INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. PEAK IS INCORRECT/INACCURATE
5. OTHER
ANALYST cae REVIEWER SD
11/11/11 11/14/11

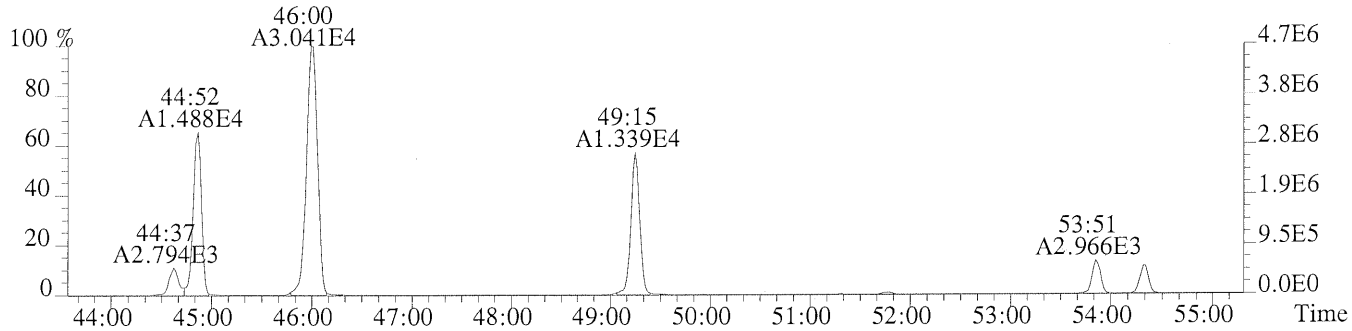
File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,840.0,1.00%,F,T)



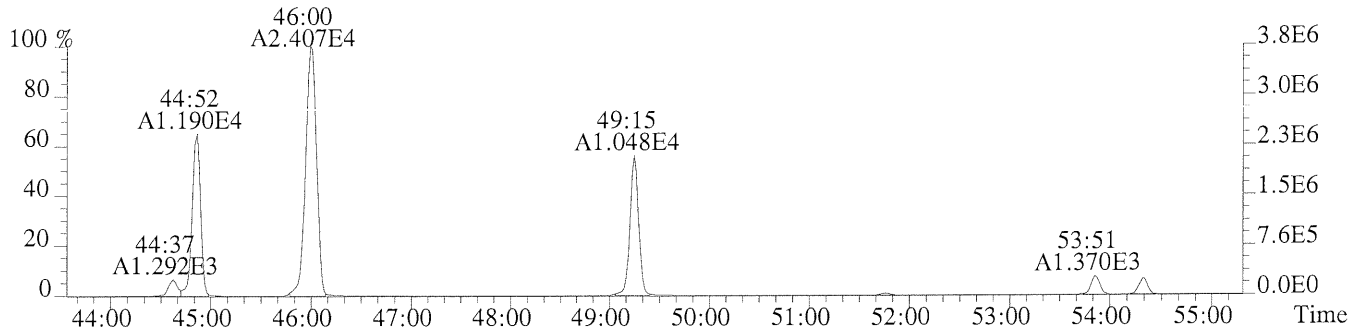
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



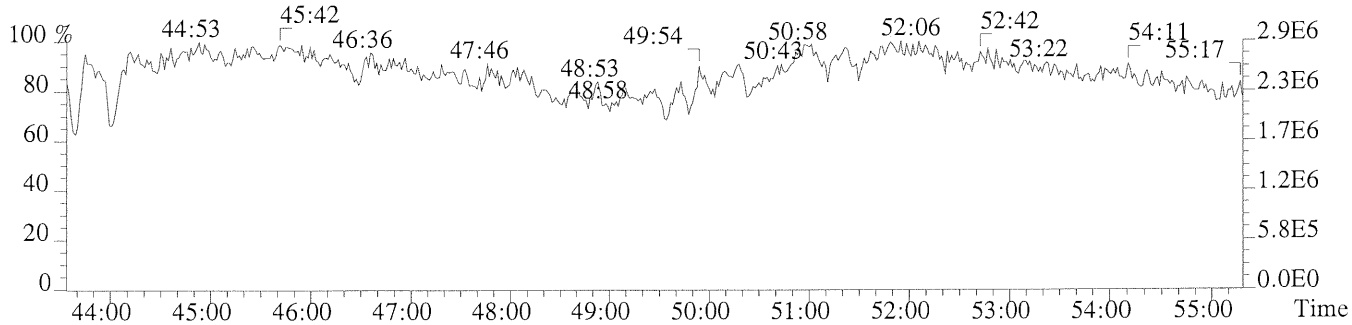
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1696.0,1.00%,F,T)



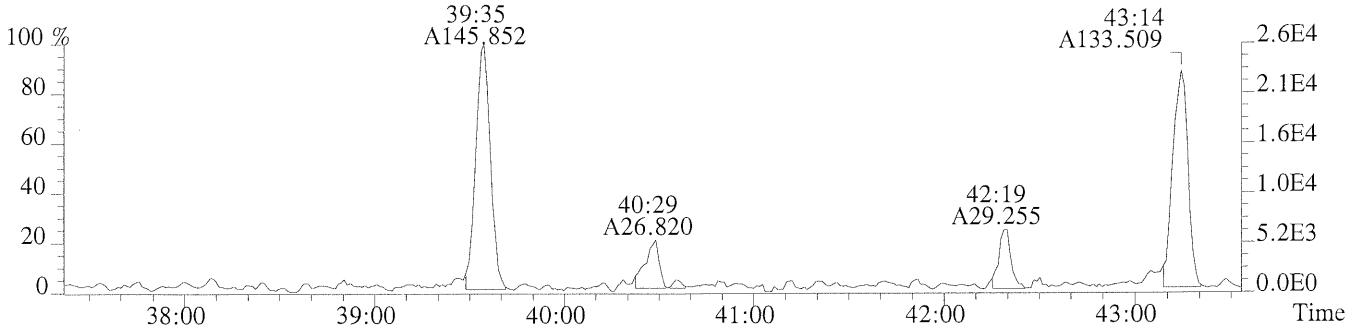
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1848.0,1.00%,F,T)



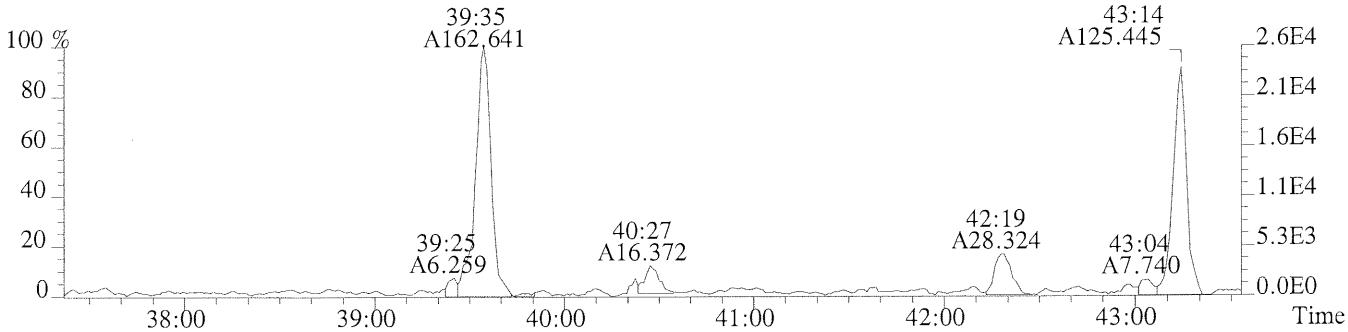
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



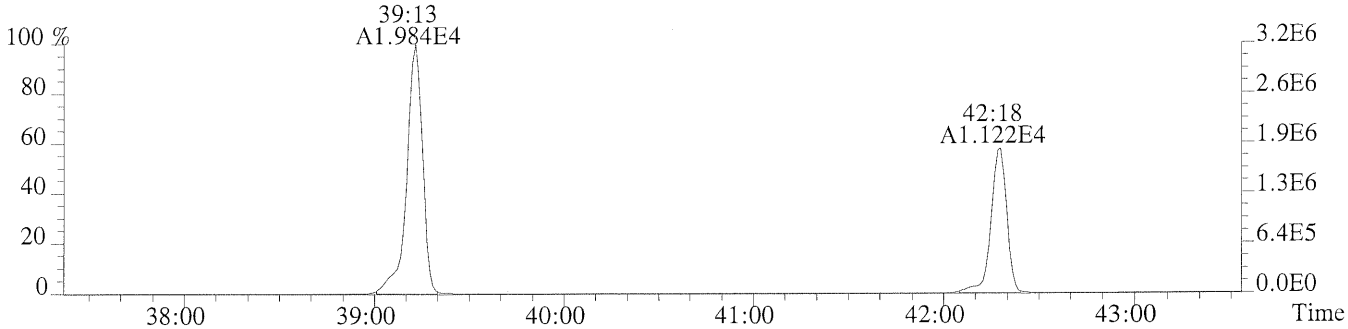
File:U142057 #1-396 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



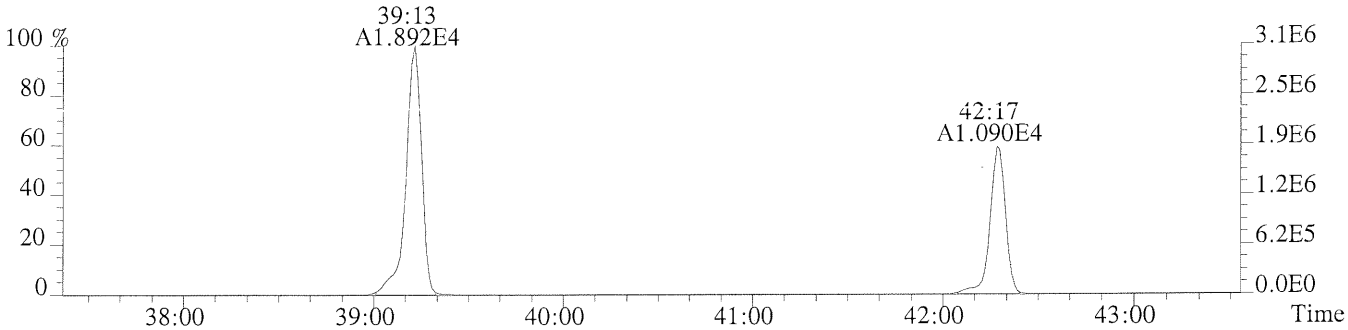
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,556.0,1.00%,F,T)



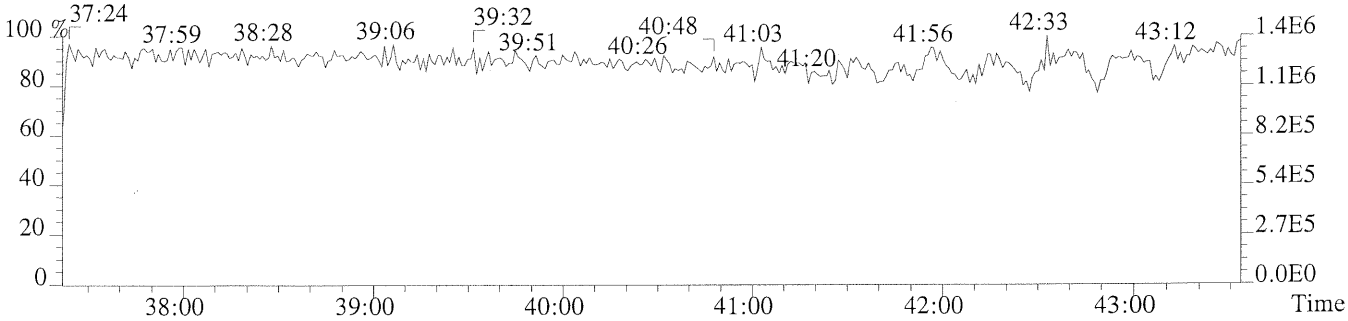
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



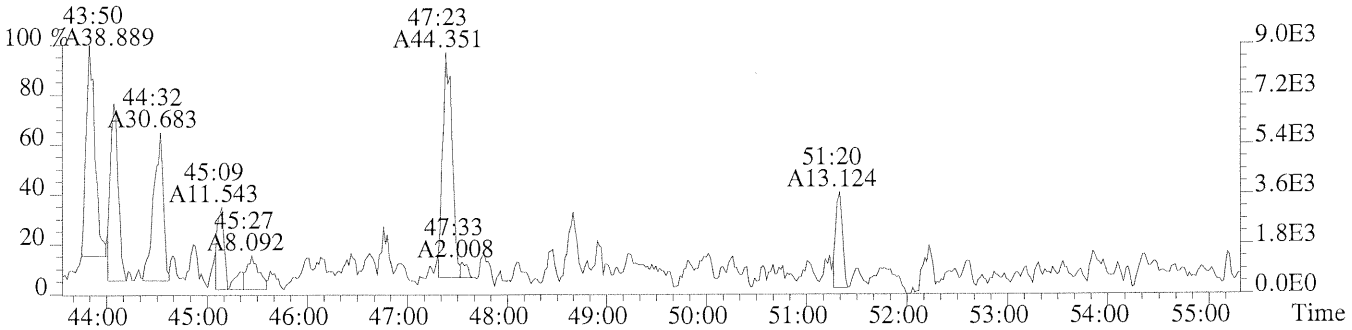
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,816.0,1.00%,F,T)



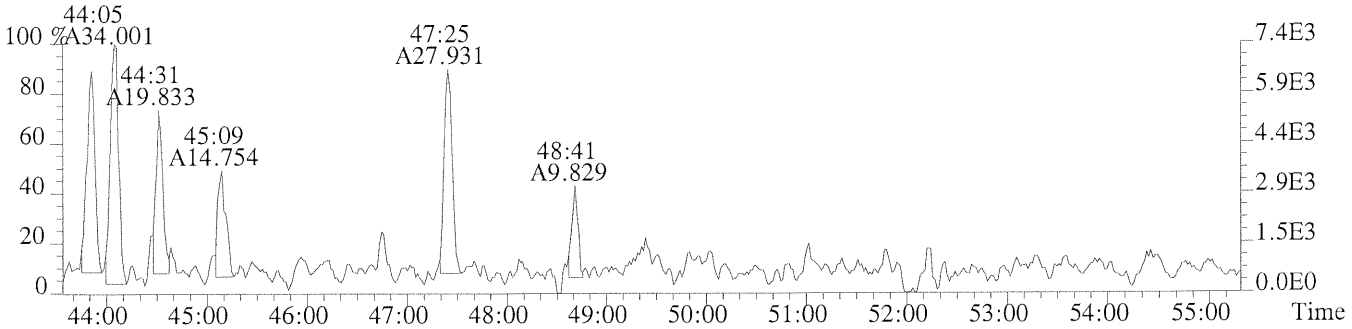
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



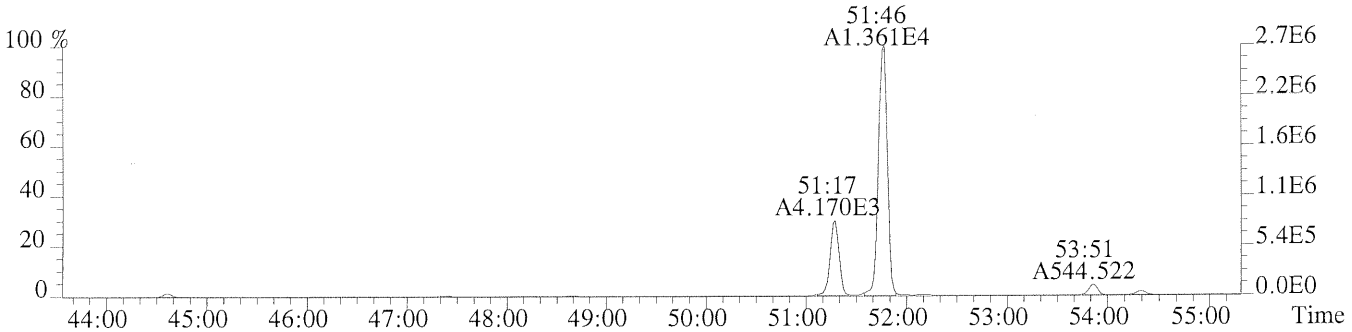
File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



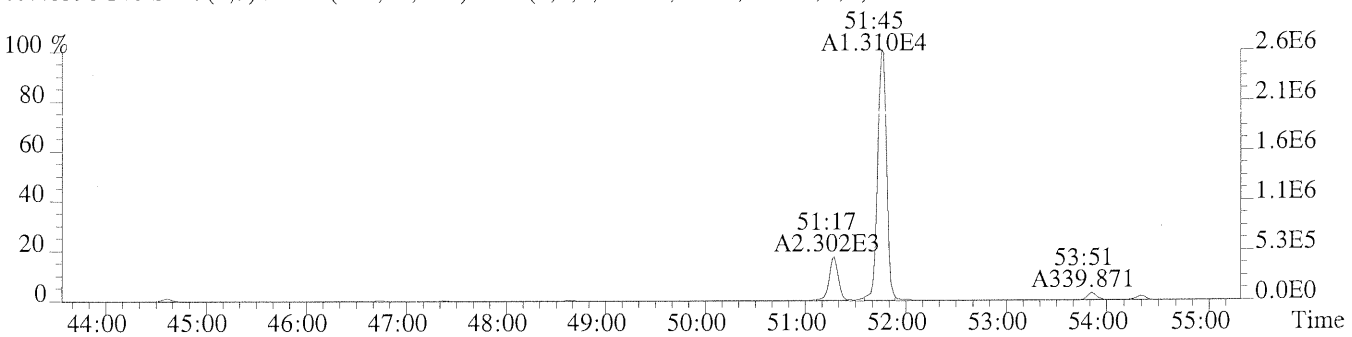
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)



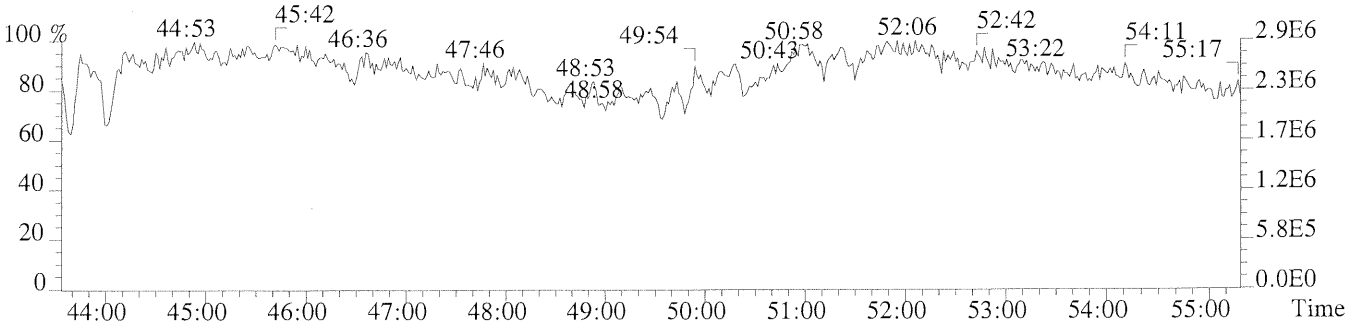
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1152.0,1.00%,F,T)



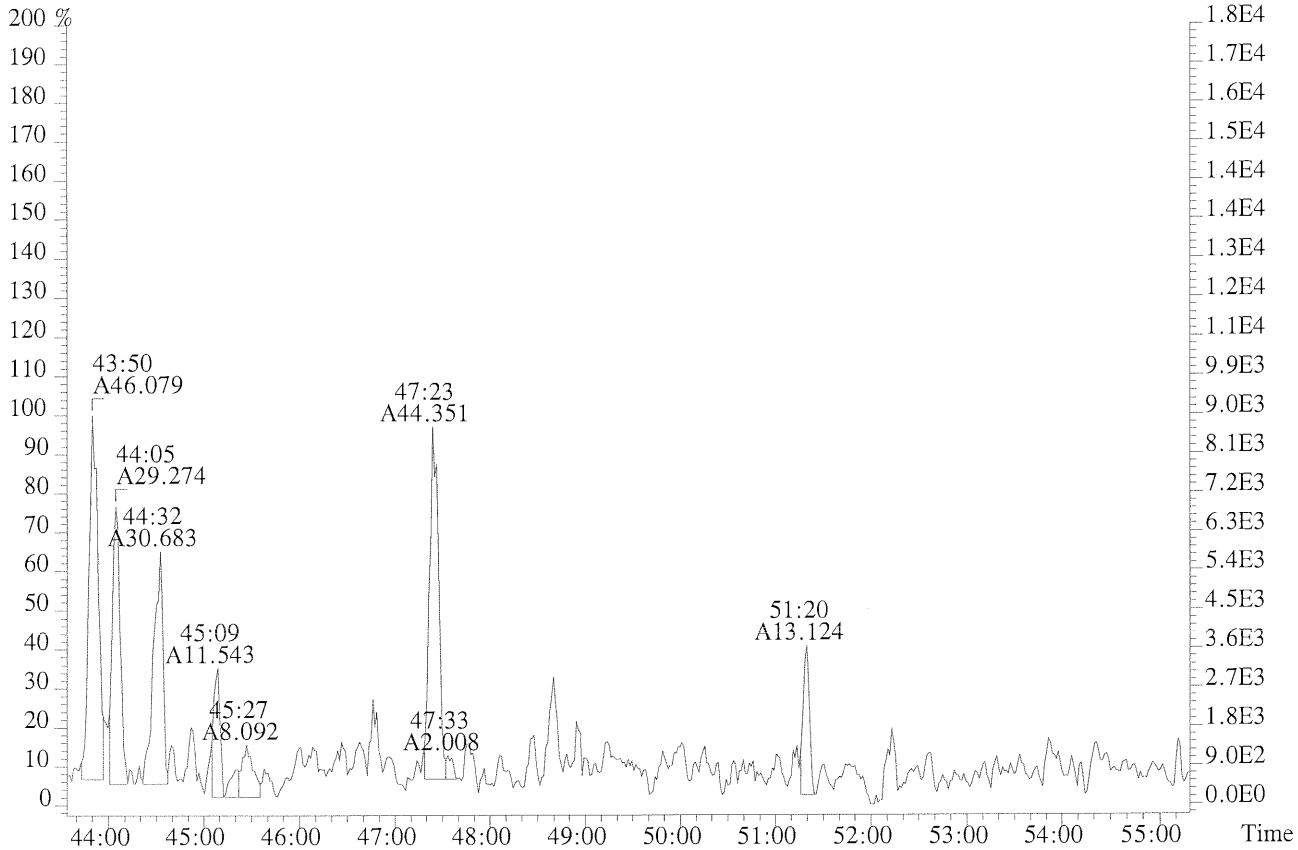
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,988.0,1.00%,F,T)



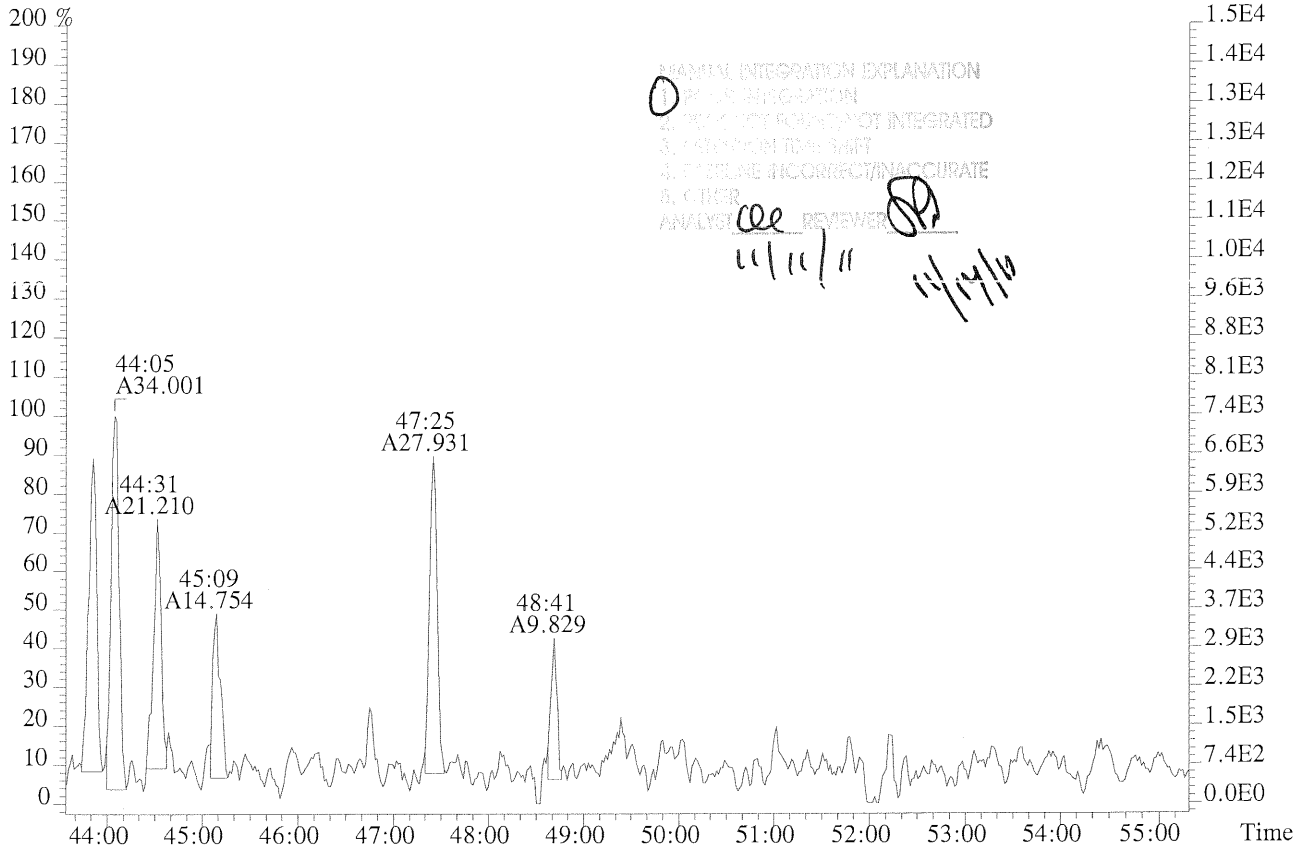
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)

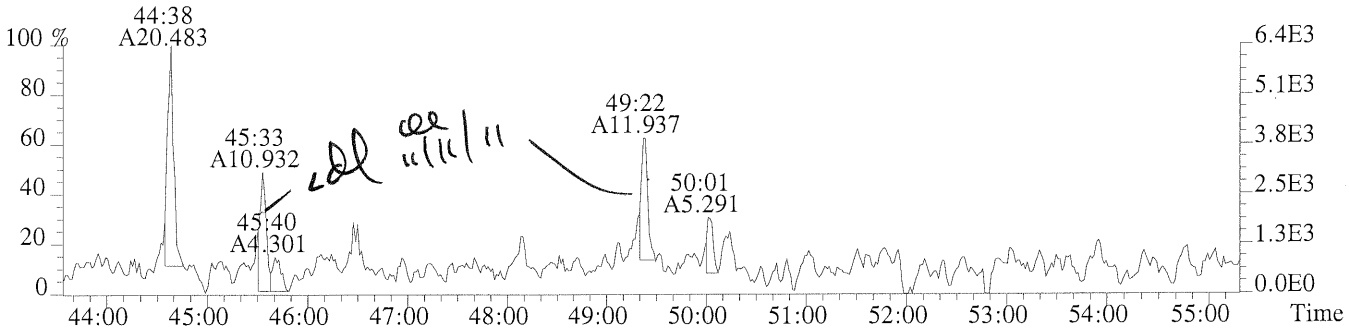


395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)

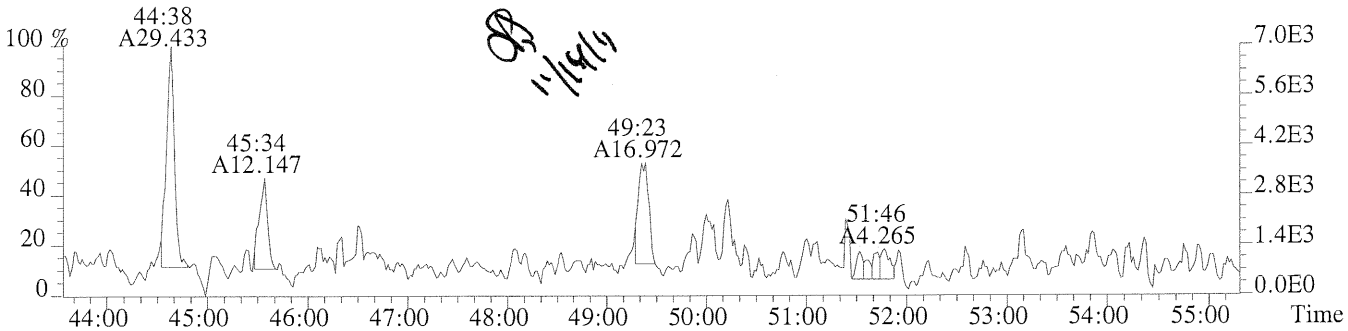


File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

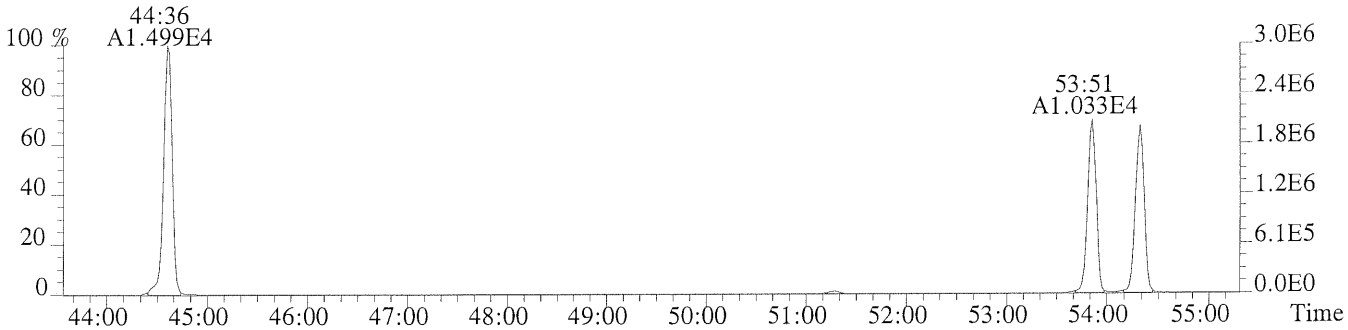
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)



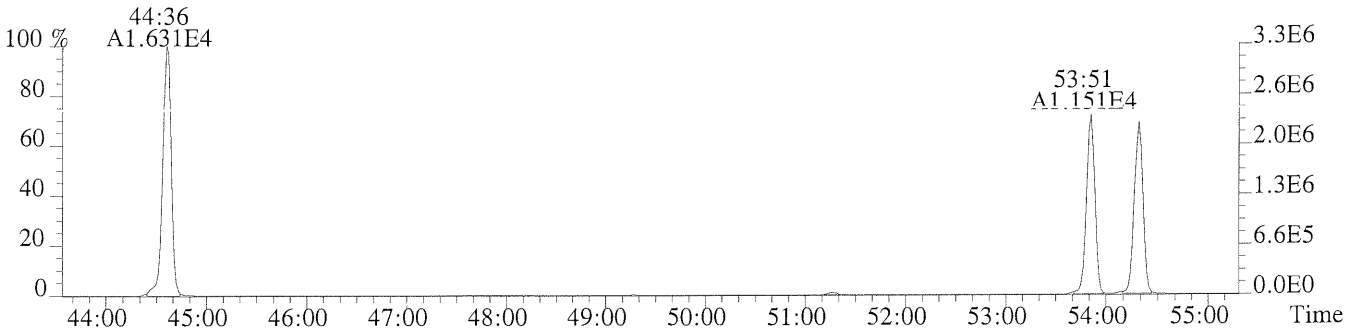
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1116.0,1.00%,F,T)



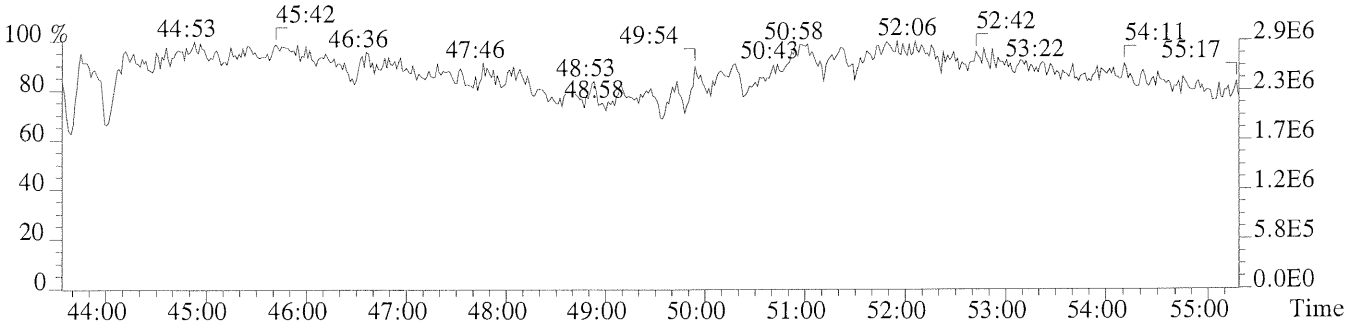
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1256.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)

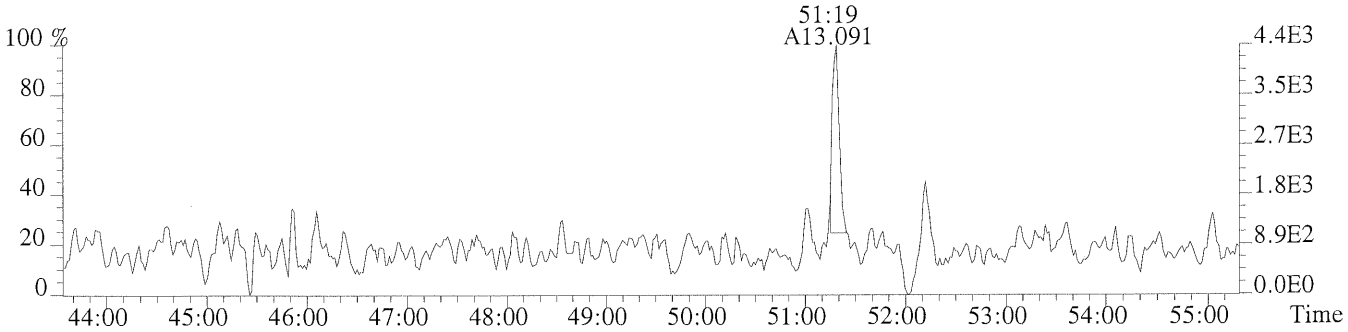


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

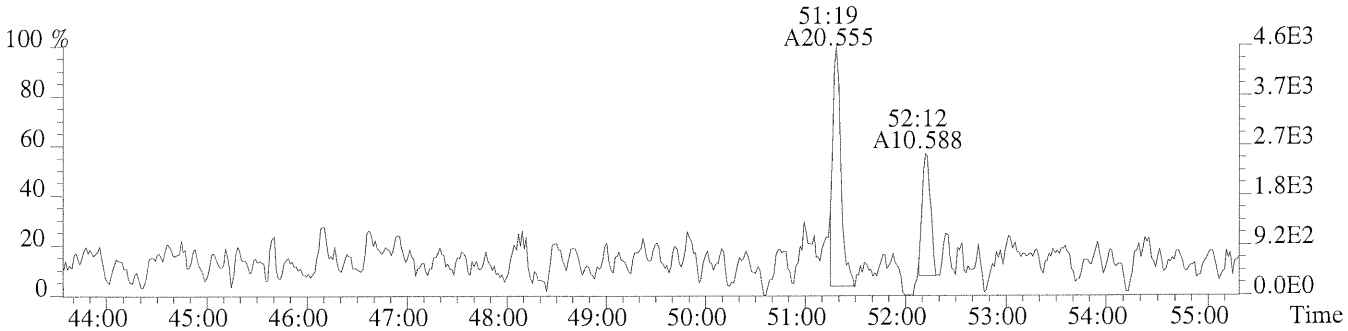


File:U142057 #1-582 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

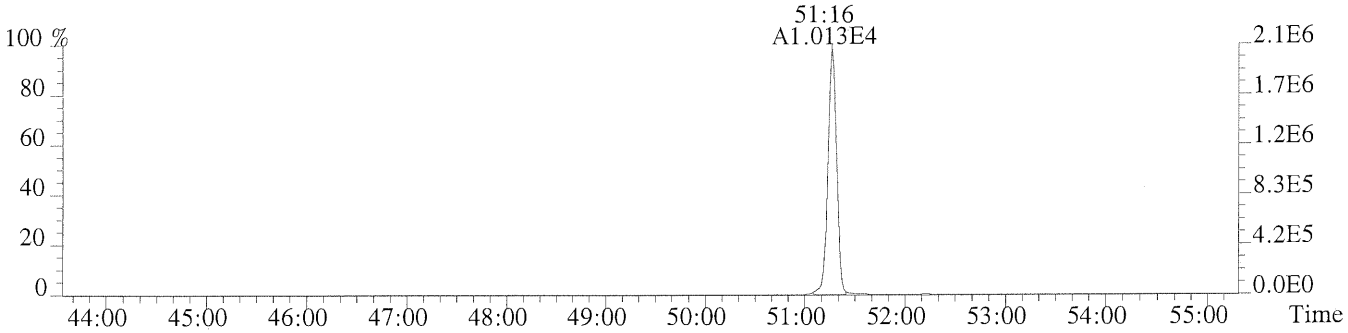
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)



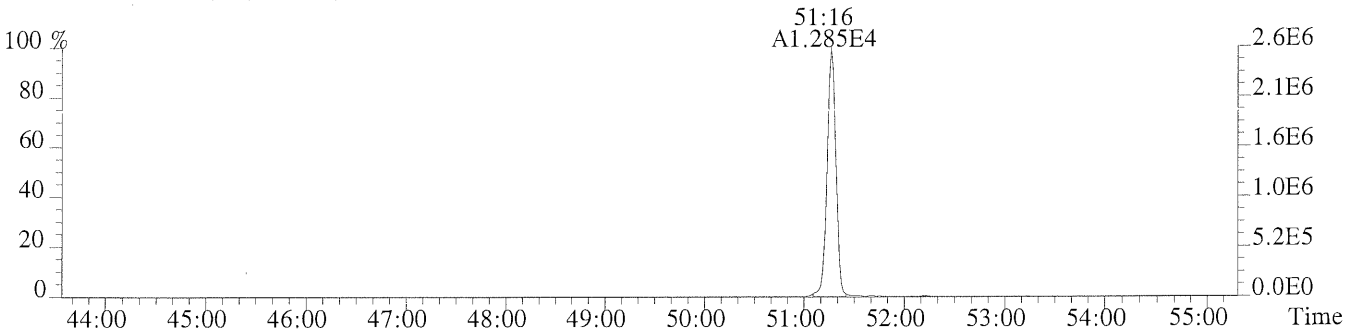
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)



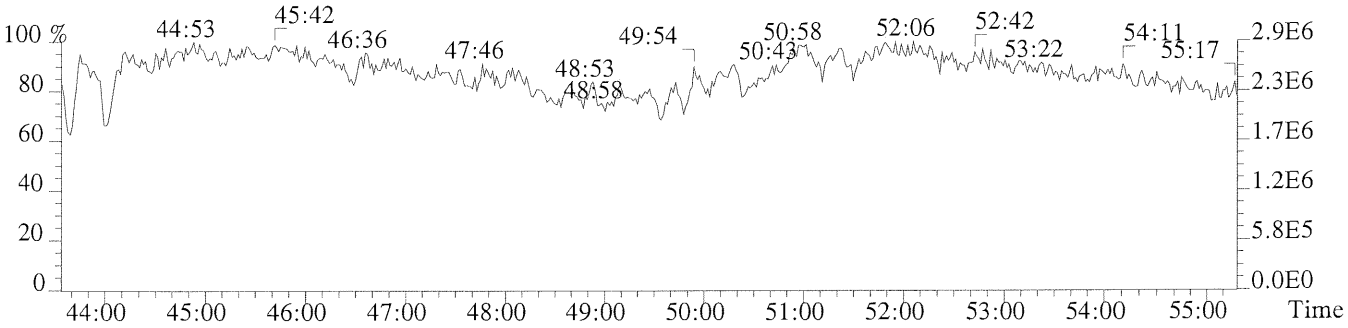
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



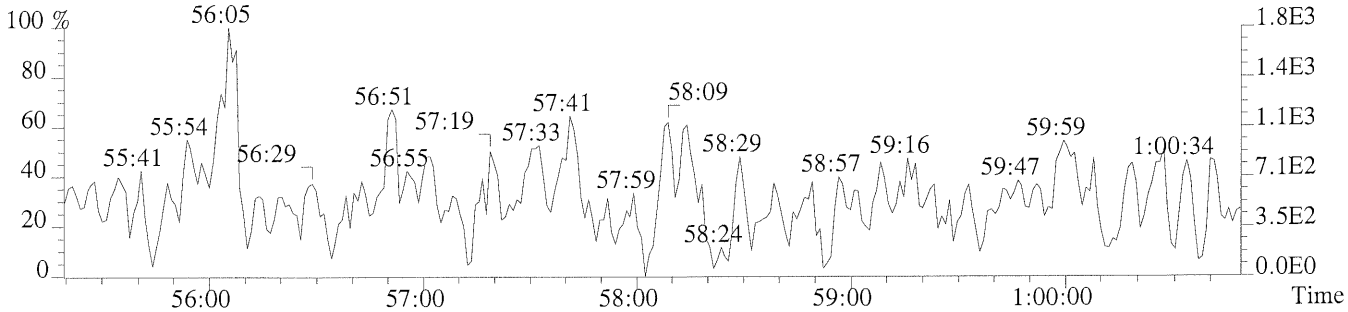
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,812.0,1.00%,F,T)



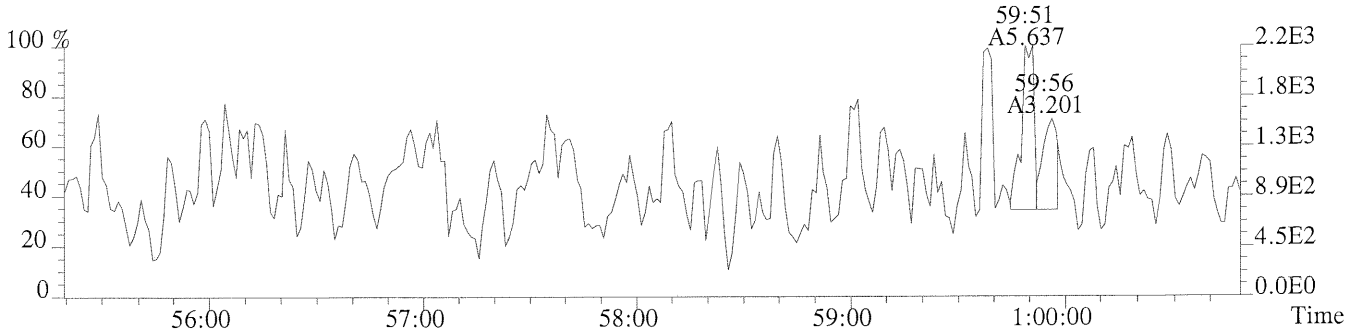
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



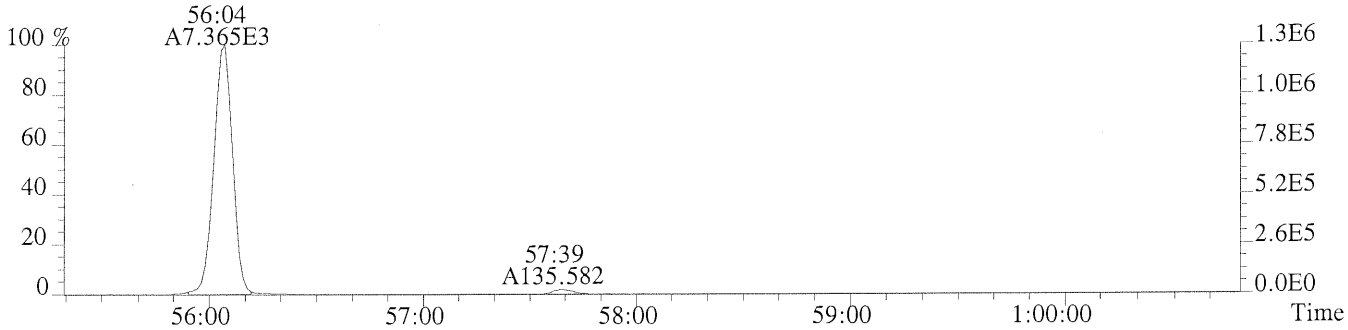
File:U142057 #1-310 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,696.0,1.00%,F,T)



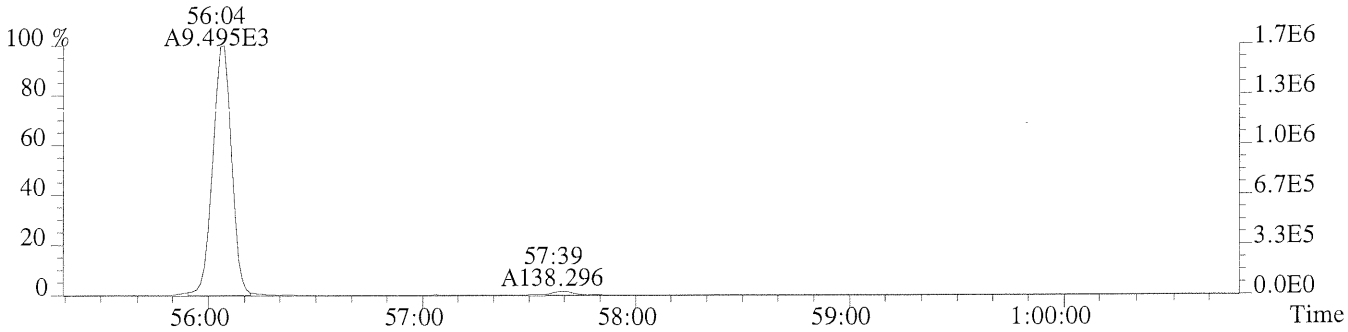
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1320.0,1.00%,F,T)



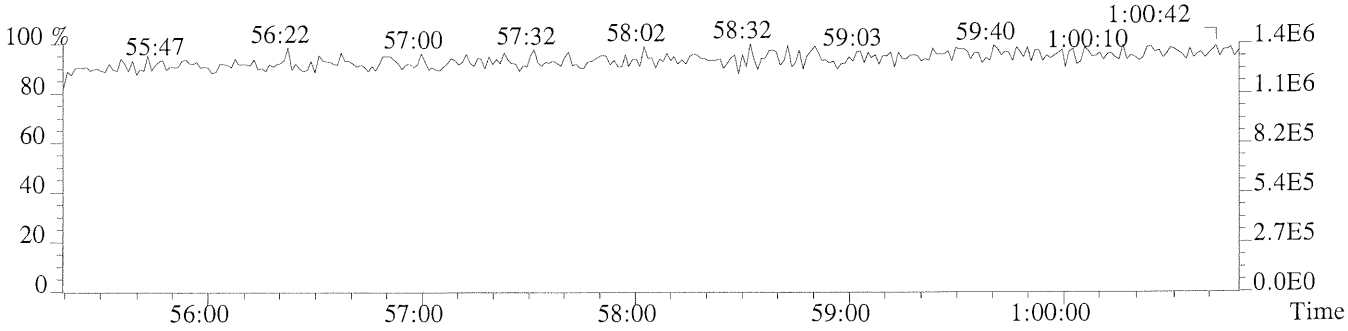
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,928.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)

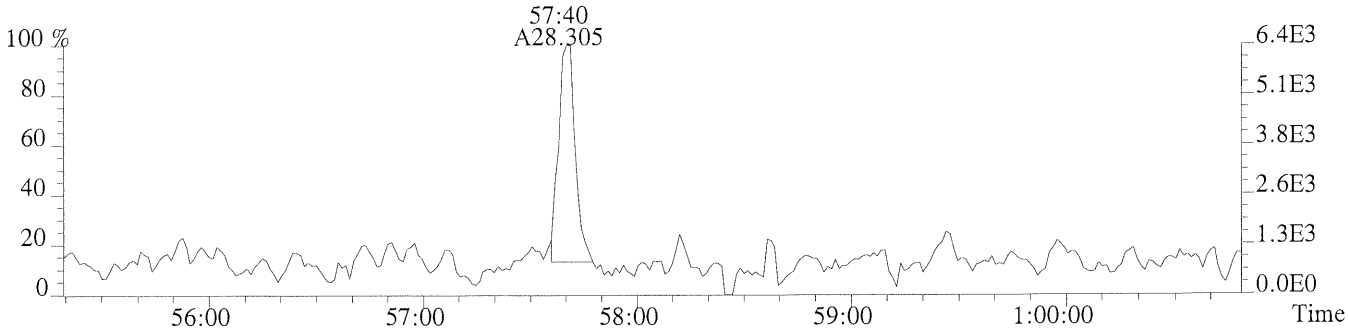


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

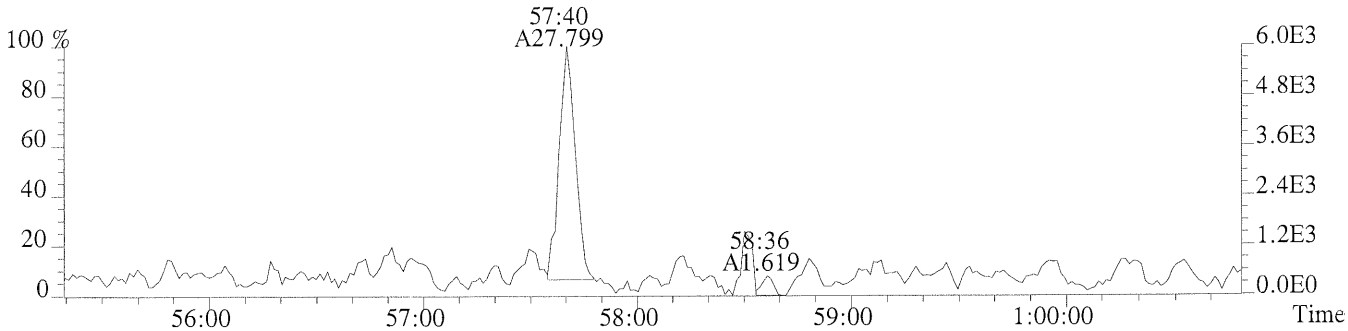


File:U142057 #1-310 Acq: 7-NOV-2011 11:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-001 B4CS-SS1-PC

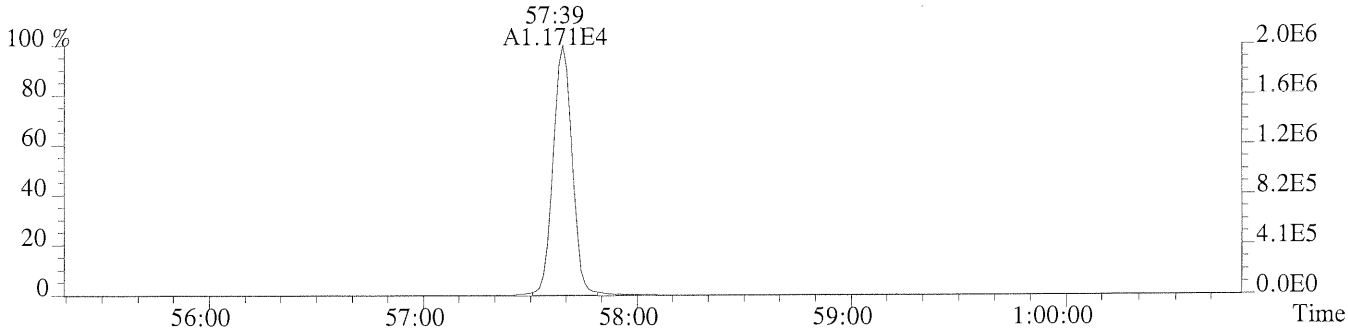
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



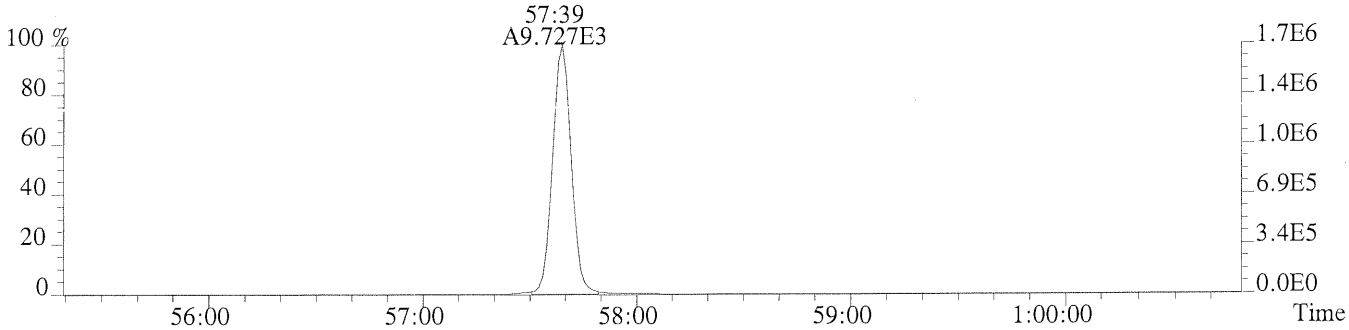
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,588.0,1.00%,F,T)



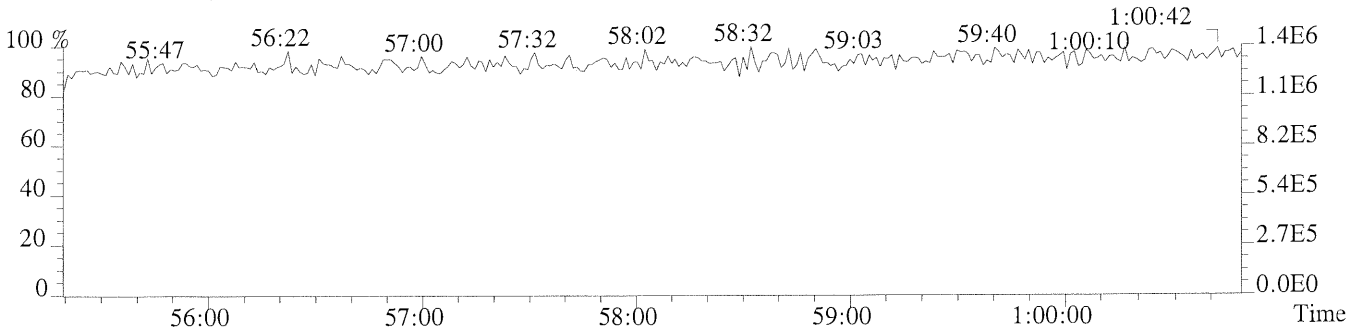
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,780.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4CS-SS2-PCBs

Run #12 Filename U142058 Samp: 1 Inj: 1 Acquired: 7-NOV-11 12:56:43
Processed: 11-NOV-11 12:14:06 Sample ID: E1101017-002

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	13:22	1.633e+02	6.061e+01	2.69	y	n	1.071
2	1	PCB-2	NotFnd	*	*	*	n	y	0.974
3	1	PCB-3	15:38	1.717e+02	8.320e+01	2.06	n	y	1.036
4	1	PCB-4	NotFnd	*	*	*	n	n	1.114
5	1	PCB-10	NotFnd	*	*	*	n	n	1.684
6	2	PCB-9	NotFnd	*	*	*	n	n	1.024
7	2	PCB-7	NotFnd	*	*	*	n	n	1.112
8	2	PCB-6	NotFnd	*	*	*	n	n	1.042
9	2	PCB-5	NotFnd	*	*	*	n	n	1.026
10	2	PCB-8	NotFnd	*	*	*	n	n	1.057
11	2	PCB-14	NotFnd	*	*	*	n	n	1.053
12	2	PCB-11	NotFnd	*	*	*	n	n	1.067
13	2	PCB-12/13	NotFnd	*	*	*	n	n	1.058
14	2	PCB-15	NotFnd	*	*	*	n	n	0.977
15	2	PCB-19	NotFnd	*	*	*	n	n	1.001
16	2	PCB-18/30	NotFnd	*	*	*	n	n	1.225
17	2	PCB-17	NotFnd	*	*	*	n	n	1.056
18	2	PCB-27	NotFnd	*	*	*	n	n	1.362
19	2	PCB-24	NotFnd	*	*	*	n	n	1.508
20	2	PCB-16	NotFnd	*	*	*	n	n	0.805
21	2	PCB-32	NotFnd	*	*	*	n	n	1.461
22	3	PCB-34	NotFnd	*	*	*	n	n	1.294
23	3	PCB-23	NotFnd	*	*	*	n	n	1.399
24	3	PCB-26/29	NotFnd	*	*	*	n	n	1.314
25	3	PCB-25	NotFnd	*	*	*	n	n	1.440
26	3	PCB-31	NotFnd	*	*	*	n	n	1.297
27	3	PCB-20/28	NotFnd	*	*	*	n	n	1.532
28	3	PCB-21/33	NotFnd	*	*	*	n	n	1.273
29	3	PCB-22	NotFnd	*	*	*	n	n	1.253
30	3	PCB-36	NotFnd	*	*	*	n	n	1.253
31	3	PCB-39	NotFnd	*	*	*	n	n	1.405
32	3	PCB-38	NotFnd	*	*	*	n	n	1.176
33	3	PCB-35	NotFnd	*	*	*	n	n	1.139
34	3	PCB-37	NotFnd	*	*	*	n	n	1.089
35	2	PCB-54	NotFnd	*	*	*	n	n	1.002
36	3	PCB-50/53	NotFnd	*	*	*	n	n	1.115
37	3	PCB-45/51	25:10	6.691e+01	6.350e+01	1.05	n	n	1.076
38	3	PCB-46	NotFnd	*	*	*	n	n	0.925
39	3	PCB-52	26:50	7.069e+01	9.313e+01	0.76	y	n	1.113
40	3	PCB-43/73	NotFnd	*	*	*	n	n	1.220
41	3	PCB-49/69	27:19	2.154e+01	3.232e+01	0.67	y	n	1.245
42	3	PCB-48	NotFnd	*	*	*	n	n	1.133
43	3	PCB-44/47/65	27:53	1.430e+02	1.469e+02	0.97	n	n	1.215
44	3	PCB-59/62/75	NotFnd	*	*	*	n	n	1.422
45	3	PCB-42	NotFnd	*	*	*	n	n	1.006
46	3	PCB-40/41/71	NotFnd	*	*	*	n	n	1.094
47	3	PCB-64	NotFnd	*	*	*	n	n	1.461
48	3	PCB-72	NotFnd	*	*	*	n	n	1.445
49	3	PCB-68	30:13	1.805e+01	1.947e+01	0.93	n	n	1.597
50	3	PCB-57	30:40	1.481e+02	3.942e+01	3.76	n	y	1.356

51	3	PCB-58	NotFnd	*	*	*	n	n	1.450
52	3	PCB-67	NotFnd	*	*	*	n	n	1.451
53	3	PCB-63	NotFnd	*	*	*	n	n	1.359
54	3	PCB-61/70/74/76	31:41	4.611e+03	1.509e+03	3.06	n	y	1.453
55	3	PCB-66	NotFnd	*	*	*	n	n	1.394
56	3	PCB-55	NotFnd	*	*	*	n	n	1.369
57	4	PCB-56	NotFnd	*	*	*	n	n	1.184
58	4	PCB-60	NotFnd	*	*	*	n	n	1.143
59	4	PCB-80	NotFnd	*	*	*	n	n	1.209
60	4	PCB-79	NotFnd	*	*	*	n	n	1.178
61	4	PCB-78	NotFnd	*	*	*	n	n	1.021
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	NotFnd	*	*	*	n	n	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	NotFnd	*	*	*	n	n	1.399
66	3	PCB-103	NotFnd	*	*	*	n	n	1.189
67	3	PCB-94	NotFnd	*	*	*	n	n	1.050
68	3	PCB-95	30:45	3.893e+01	2.318e+01	1.68	y	n	1.067
69	3	PCB-93/100	NotFnd	*	*	*	n	n	1.096
70	3	PCB-98/102	NotFnd	*	*	*	n	n	1.134
71	3	PCB-88/91	NotFnd	*	*	*	n	n	1.053
72	3	PCB-84	NotFnd	*	*	*	n	y	0.925
73	3	PCB-89	NotFnd	*	*	*	n	n	0.892
74	4	PCB-121	NotFnd	*	*	*	n	n	1.376
75	4	PCB-92	NotFnd	*	*	*	n	n	0.954
76	4	PCB-90/101/113	33:44	3.134e+01	2.378e+01	1.32	y	n	1.094
77	4	PCB-83/99	NotFnd	*	*	*	n	n	1.003
78	4	PCB-112	NotFnd	*	*	*	n	n	1.262
79	4	PCB-86/87/97/109/119/125	NotFnd	*	*	*	n	n	1.125
80	4	PCB-117	NotFnd	*	*	*	n	n	1.284
81	4	PCB-85/116	NotFnd	*	*	*	n	n	1.123
82	4	PCB-110/115	35:43	4.578e+01	1.587e+01	2.88	n	n	1.328
83	4	PCB-82	NotFnd	*	*	*	n	n	0.807
84	4	PCB-111	NotFnd	*	*	*	n	n	1.347
85	4	PCB-120	NotFnd	*	*	*	n	n	1.281
86	5	PCB-108/124	NotFnd	*	*	*	n	n	0.897
87	5	PCB-107	NotFnd	*	*	*	n	n	1.024
88	5	PCB-123	NotFnd	*	*	*	n	n	1.018
89	5	PCB-106	NotFnd	*	*	*	n	n	0.906
90	5	PCB-118	NotFnd	*	*	*	n	y	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	0.865
92	5	PCB-114	NotFnd	*	*	*	n	n	0.991
93	5	PCB-105	NotFnd	*	*	*	n	y	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	0.887
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.613
98	4	PCB-150	NotFnd	*	*	*	n	n	1.780
99	4	PCB-136	NotFnd	*	*	*	n	n	1.558
100	4	PCB-145	NotFnd	*	*	*	n	n	1.671
101	4	PCB-148	NotFnd	*	*	*	n	n	1.186
102	4	PCB-135/151	NotFnd	*	*	*	n	n	1.207
103	4	PCB-154	NotFnd	*	*	*	n	n	1.376
104	4	PCB-144	NotFnd	*	*	*	n	n	1.222
105	5	PCB-147/149	NotFnd	*	*	*	n	y	1.157
106	5	PCB-134	NotFnd	*	*	*	n	n	0.922
107	5	PCB-143	NotFnd	*	*	*	n	n	1.014

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.135
109	5	PCB-131	NotFnd	*	*	*	n	n	0.965
110	5	PCB-142	NotFnd	*	*	*	n	n	0.950
111	5	PCB-132	NotFnd	*	*	*	n	n	1.013
112	5	PCB-133	NotFnd	*	*	*	n	n	0.980
113	5	PCB-165	NotFnd	*	*	*	n	n	1.335
114	5	PCB-146	NotFnd	*	*	*	n	n	1.147
115	5	PCB-161	NotFnd	*	*	*	n	n	1.291
116	5	PCB-153/168	NotFnd	*	*	*	n	y	1.264
117	5	PCB-141	NotFnd	*	*	*	n	n	0.999
118	5	PCB-130	NotFnd	*	*	*	n	n	0.875
119	5	PCB-137	NotFnd	*	*	*	n	n	1.059
120	5	PCB-164	NotFnd	*	*	*	n	n	1.292
121	5	PCB-129/138/163	NotFnd	*	*	*	n	y	1.120
122	5	PCB-160	NotFnd	*	*	*	n	n	1.396
123	5	PCB-158	NotFnd	*	*	*	n	n	1.456
124	5	PCB-128/166	NotFnd	*	*	*	n	n	1.177
125	6	PCB-159	NotFnd	*	*	*	n	n	0.908
126	6	PCB-162	NotFnd	*	*	*	n	n	0.968
127	6	PCB-167	NotFnd	*	*	*	n	n	1.008
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	NotFnd	*	*	*	n	y	1.394
132	5	PCB-184	NotFnd	*	*	*	n	n	1.530
133	5	PCB-176	NotFnd	*	*	*	n	n	1.349
134	5	PCB-186	NotFnd	*	*	*	n	n	1.400
135	5	PCB-178	NotFnd	*	*	*	n	n	1.012
136	5	PCB-175	NotFnd	*	*	*	n	n	1.056
137	5	PCB-187	NotFnd	*	*	*	n	y	1.219
138	5	PCB-182	NotFnd	*	*	*	n	n	0.908
139	6	PCB-183	NotFnd	*	*	*	n	n	0.792
140	6	PCB-185	NotFnd	*	*	*	n	n	0.682
141	6	PCB-174	NotFnd	*	*	*	n	n	0.686
142	6	PCB-177	NotFnd	*	*	*	n	n	0.623
143	6	PCB-181	NotFnd	*	*	*	n	n	0.733
144	6	PCB-171/173	NotFnd	*	*	*	n	n	0.622
145	6	PCB-172	NotFnd	*	*	*	n	n	0.592
146	6	PCB-192	NotFnd	*	*	*	n	n	0.817
147	6	PCB-180/193	NotFnd	*	*	*	n	y	0.761
148	6	PCB-191	NotFnd	*	*	*	n	n	0.798
149	6	PCB-170	NotFnd	*	*	*	n	n	0.568
150	6	PCB-190	NotFnd	*	*	*	n	n	0.742
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	NotFnd	*	*	*	n	n	0.863
153	6	PCB-201	NotFnd	*	*	*	n	n	1.226
154	6	PCB-204	NotFnd	*	*	*	n	n	1.192
155	6	PCB-197	NotFnd	*	*	*	n	n	1.247
156	6	PCB-200	NotFnd	*	*	*	n	n	1.222
157	6	PCB-198/199	NotFnd	*	*	*	n	n	0.830
158	6	PCB-196	NotFnd	*	*	*	n	n	0.804
159	6	PCB-203	NotFnd	*	*	*	n	n	0.940
160	6	PCB-195	NotFnd	*	*	*	n	n	0.723
161	6	PCB-194	NotFnd	*	*	*	n	n	0.693
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	NotFnd	*	*	*	n	n	0.880
164	6	PCB-207	NotFnd	*	*	*	n	n	1.146

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165	7	PCB-206	NotFnd	*	*	*	n	n	0.931
166	7	PCB-209	NotFnd	*	*	*	n	n	0.894
167	1	PCB-1L	13:21	1.963e+04	6.491e+03	3.02	y	n	1.220
168	1	PCB-3L	15:37	2.230e+04	7.214e+03	3.09	y	n	1.173
169	1	PCB-4L	15:53	1.211e+04	7.812e+03	1.55	y	n	0.803
170	2	PCB-15L	21:55	1.449e+04	9.032e+03	1.60	y	n	0.962
171	2	PCB-19L	19:08	7.176e+03	6.699e+03	1.07	y	n	0.636
172	3	PCB-37L	29:01	1.167e+04	1.073e+04	1.09	y	n	1.144
173	2	PCB-54L	22:11	8.844e+03	1.110e+04	0.80	y	n	1.140
174	4	PCB-81L	35:48	9.626e+03	1.210e+04	0.80	y	n	0.947
175	4	PCB-77L	36:22	9.998e+03	1.274e+04	0.78	y	n	0.949
176	3	PCB-104L	27:46	1.172e+04	7.586e+03	1.55	y	n	1.397
177	5	PCB-123L	38:21	1.119e+04	7.117e+03	1.57	y	n	1.029
178	5	PCB-118L	38:41	1.141e+04	7.254e+03	1.57	y	n	1.077
179	5	PCB-114L	39:13	1.260e+04	7.606e+03	1.66	y	n	1.075
180	5	PCB-105L	39:52	1.167e+04	7.418e+03	1.57	y	n	1.013
181	5	PCB-126L	42:58	1.134e+04	6.777e+03	1.67	y	n	0.898
182	4	PCB-155L	33:27	1.252e+04	1.028e+04	1.22	y	n	1.637
183	6	PCB-167L	44:51	7.858e+03	6.058e+03	1.30	y	n	0.882
184	6	PCB-156/157L	46:00	1.498e+04	1.197e+04	1.25	y	n	0.818
185	6	PCB-169L	49:14	7.531e+03	5.957e+03	1.26	y	n	0.716
186	5	PCB-188L	39:12	1.151e+04	1.102e+04	1.04	y	n	2.358
187	6	PCB-189L	51:45	7.663e+03	7.264e+03	1.05	y	n	1.307
188	6	PCB-202L	44:35	8.530e+03	9.207e+03	0.93	y	n	1.804
189	6	PCB-205L	54:18	5.885e+03	6.379e+03	0.92	y	n	1.363
190	6	PCB-208L	51:15	5.810e+03	7.634e+03	0.76	y	n	1.337
191	7	PCB-206L	56:03	4.656e+03	5.962e+03	0.78	y	n	0.998
192	7	PCB-209L	57:38	6.722e+03	5.563e+03	1.21	y	n	1.563
193	3	PCB-28L	24:57	1.276e+04	1.176e+04	1.09	y	n	1.387
194	4	PCB-111L	36:25	1.530e+04	9.770e+03	1.57	y	n	1.238
195	5	PCB-178L	42:16	7.669e+03	7.277e+03	1.05	y	n	0.953
196	2	PCB-9L	17:58	2.073e+04	1.279e+04	1.62	y	n	-
197	3	PCB-52L	26:48	1.280e+04	1.611e+04	0.79	y	n	-
198	4	PCB-101L	33:42	1.796e+04	1.127e+04	1.59	y	n	-
199	5	PCB-138L	41:49	1.395e+04	1.090e+04	1.28	y	n	-
200	6	PCB-194L	53:50	7.387e+03	8.052e+03	0.92	y	n	-

-- Sample Calculation--

CDL

PCB-209 = (~~7.84e+02~~ + ~~3.12e+02~~) x 10000 pg x 1 X2.5 / (6.~~722e+03~~ + 5.~~563e+03~~) x (0.5 mL ~~1~~) x (1L ~~1~~000 mL) x 0.8938 = 32.9 pg

1.2e+06 + 1.2e+06

11/14/11

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sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4CS-SS2-PCBs

Run #5 Filename U142058#1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 12:56:43
Processed: 11-NOV-11 16:46:00 Sample ID: E1101017-002

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:47	3.178e+03	2.012e+03	1.58	yes	1.043	no
2	70L	PCB-70L	31:37	1.178e+04	1.456e+04	0.81	yes	1.530	no
3	15L	PCB-15L	21:55	1.449e+04	9.032e+03	1.60	yes		no
4	81L	PCB-81L	35:48	9.626e+03	1.210e+04	0.80	yes		no

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	6.38e+05	1.31e+03	4.9e+02	4.17e+05	1.89e+03	2.2e+02
2	PCB-70L	1.97e+06	5.31e+03	3.7e+02	2.44e+06	4.06e+03	6.0e+02
3	PCB-15L	2.95e+06	1.31e+03	2.3e+03	1.83e+06	1.89e+03	9.7e+02
4	PCB-81L	1.63e+06	5.06e+03	3.2e+02	2.00e+06	4.80e+03	4.2e+02

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(3.18e+03 + 2.01e+03) \times 10000\ \text{pg} \quad 1}{(1.45e+04 + 9.03e+03) \times 1.0\ \cancel{L} \times \cancel{1.043}} = 2115\ \text{pg} \quad \cancel{\text{pg/L}}$$

11/14/11

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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4CS-SS2-PCBs

Run #12 Filename U142058#1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 12:56:43

Processed: 11-NOV-11 12:14:06 LAB. ID: E1101017-002

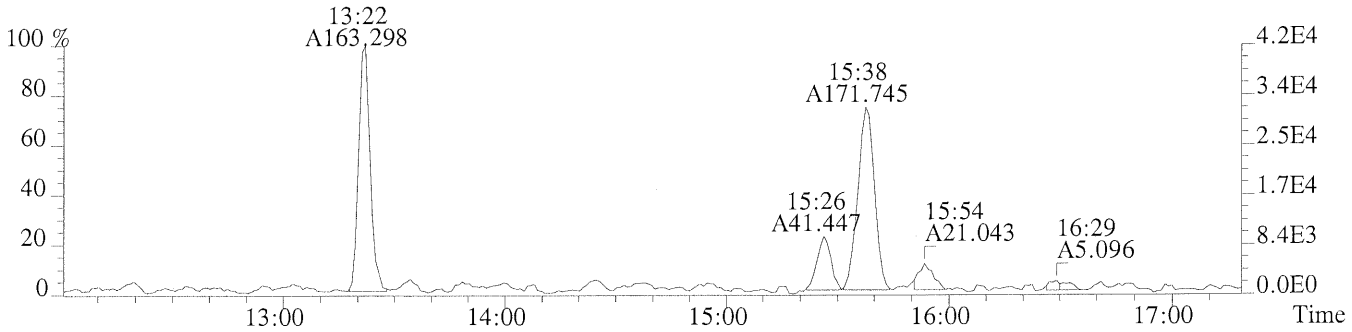
	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	4.13e+04	1.20e+03	3.4e+01	1.50e+04	1.02e+03	1.5e+01
2	PCB-2	*	1.20e+03	*	*	1.02e+03	*
3	PCB-3	3.07e+04	1.20e+03	2.6e+01	1.30e+04	1.02e+03	1.3e+01
4	PCB-4	*	5.08e+03	*	*	4.74e+04	*
5	PCB-10	*	5.08e+03	*	*	4.74e+04	*
6	PCB-9	*	5.28e+03	*	*	7.65e+04	*
7	PCB-7	*	5.28e+03	*	*	7.65e+04	*
8	PCB-6	*	5.28e+03	*	*	7.65e+04	*
9	PCB-5	*	5.28e+03	*	*	7.65e+04	*
10	PCB-8	*	5.28e+03	*	*	7.65e+04	*
11	PCB-14	*	5.28e+03	*	*	7.65e+04	*
12	PCB-11	*	5.28e+03	*	*	7.65e+04	*
13	PCB-12/13	*	5.28e+03	*	*	7.65e+04	*
14	PCB-15	*	5.28e+03	*	*	7.65e+04	*
15	PCB-19	*	8.95e+04	*	*	1.76e+03	*
16	PCB-18/30	*	8.95e+04	*	*	1.76e+03	*
17	PCB-17	*	8.95e+04	*	*	1.76e+03	*
18	PCB-27	*	8.95e+04	*	*	1.76e+03	*
19	PCB-24	*	8.95e+04	*	*	1.76e+03	*
20	PCB-16	*	8.95e+04	*	*	1.76e+03	*
21	PCB-32	*	8.95e+04	*	*	1.76e+03	*
22	PCB-34	*	3.63e+04	*	*	1.37e+03	*
23	PCB-23	*	3.63e+04	*	*	1.37e+03	*
24	PCB-26/29	*	3.63e+04	*	*	1.37e+03	*
25	PCB-25	*	3.63e+04	*	*	1.37e+03	*
26	PCB-31	*	3.63e+04	*	*	1.37e+03	*
27	PCB-20/28	*	3.63e+04	*	*	1.37e+03	*
28	PCB-21/33	*	3.63e+04	*	*	1.37e+03	*
29	PCB-22	*	3.63e+04	*	*	1.37e+03	*
30	PCB-36	*	3.63e+04	*	*	1.37e+03	*
31	PCB-39	*	3.63e+04	*	*	1.37e+03	*
32	PCB-38	*	3.63e+04	*	*	1.37e+03	*
33	PCB-35	*	3.63e+04	*	*	1.37e+03	*
34	PCB-37	*	3.63e+04	*	*	1.37e+03	*
35	PCB-54	*	7.76e+02	*	*	1.03e+03	*
36	PCB-50/53	*	9.80e+02	*	*	9.04e+02	*
37	PCB-45/51	9.14e+03	9.80e+02	9.3e+00	9.93e+03	9.04e+02	1.1e+01
38	PCB-46	*	9.80e+02	*	*	9.04e+02	*
39	PCB-52	1.10e+04	9.80e+02	1.1e+01	1.43e+04	9.04e+02	1.6e+01
40	PCB-43/73	*	9.80e+02	*	*	9.04e+02	*
41	PCB-49/69	4.23e+03	9.80e+02	4.3e+00	5.93e+03	9.04e+02	6.6e+00
42	PCB-48	*	9.80e+02	*	*	9.04e+02	*
43	PCB-44/47/65	2.00e+04	9.80e+02	2.0e+01	2.20e+04	9.04e+02	2.4e+01
44	PCB-59/62/75	*	9.80e+02	*	*	9.04e+02	*
45	PCB-42	*	9.80e+02	*	*	9.04e+02	*
46	PCB-40/41/71	*	9.80e+02	*	*	9.04e+02	*
47	PCB-64	*	9.80e+02	*	*	9.04e+02	*

48	PCB-72	*	9.80e+02	*	*	9.04e+02	*
49	PCB-68	3.84e+03	9.80e+02	3.9e+00	4.12e+03	9.04e+02	4.6e+00
50	PCB-57	1.74e+04	9.80e+02	1.8e+01	4.76e+03	9.04e+02	5.3e+00
51	PCB-58	*	9.80e+02	*	*	9.04e+02	*
52	PCB-67	*	9.80e+02	*	*	9.04e+02	*
53	PCB-63	*	9.80e+02	*	*	9.04e+02	*
54	PCB-61/70/74/76	5.05e+05	9.80e+02	5.1e+02	1.58e+05	9.04e+02	1.7e+02
55	PCB-66	*	9.80e+02	*	*	9.04e+02	*
56	PCB-55	*	9.80e+02	*	*	9.04e+02	*
57	PCB-56	*	2.29e+03	*	*	1.96e+03	*
58	PCB-60	*	2.29e+03	*	*	1.96e+03	*
59	PCB-80	*	2.29e+03	*	*	1.96e+03	*
60	PCB-79	*	2.29e+03	*	*	1.96e+03	*
61	PCB-78	*	2.29e+03	*	*	1.96e+03	*
62	PCB-81	*	2.29e+03	*	*	1.96e+03	*
63	PCB-77	*	2.29e+03	*	*	1.96e+03	*
64	PCB-104	*	8.24e+02	*	*	8.44e+02	*
65	PCB-96	*	8.24e+02	*	*	8.44e+02	*
66	PCB-103	*	8.24e+02	*	*	8.44e+02	*
67	PCB-94	*	8.24e+02	*	*	8.44e+02	*
68	PCB-95	7.25e+03	8.24e+02	8.8e+00	4.21e+03	8.44e+02	5.0e+00
69	PCB-93/100	*	8.24e+02	*	*	8.44e+02	*
70	PCB-98/102	*	8.24e+02	*	*	8.44e+02	*
71	PCB-88/91	*	8.24e+02	*	*	8.44e+02	*
72	PCB-84	*	8.24e+02	*	*	8.44e+02	*
73	PCB-89	*	8.24e+02	*	*	8.44e+02	*
74	PCB-121	*	1.16e+03	*	*	1.20e+03	*
75	PCB-92	*	1.16e+03	*	*	1.20e+03	*
76	PCB-90/101/113	6.22e+03	1.16e+03	5.4e+00	3.70e+03	1.20e+03	3.1e+00
77	PCB-83/99	*	1.16e+03	*	*	1.20e+03	*
78	PCB-112	*	1.16e+03	*	*	1.20e+03	*
79	CB-86/87/97/109/119/125	*	1.16e+03	*	*	1.20e+03	*
80	PCB-117	*	1.16e+03	*	*	1.20e+03	*
81	PCB-85/116	*	1.16e+03	*	*	1.20e+03	*
82	PCB-110/115	8.15e+03	1.16e+03	7.0e+00	4.11e+03	1.20e+03	3.4e+00
83	PCB-82	*	1.16e+03	*	*	1.20e+03	*
84	PCB-111	*	1.16e+03	*	*	1.20e+03	*
85	PCB-120	*	1.16e+03	*	*	1.20e+03	*
86	PCB-108/124	*	9.00e+02	*	*	6.56e+02	*
87	PCB-107	*	9.00e+02	*	*	6.56e+02	*
88	PCB-123	*	9.00e+02	*	*	6.56e+02	*
89	PCB-106	*	9.00e+02	*	*	6.56e+02	*
90	PCB-118	*	9.00e+02	*	*	6.56e+02	*
91	PCB-122	*	9.00e+02	*	*	6.56e+02	*
92	PCB-114	*	9.00e+02	*	*	6.56e+02	*
93	PCB-105	*	9.00e+02	*	*	6.56e+02	*
94	PCB-127	*	9.00e+02	*	*	6.56e+02	*
95	PCB-126	*	9.00e+02	*	*	6.56e+02	*
96	PCB-155	*	1.20e+03	*	*	1.06e+03	*
97	PCB-152	*	1.20e+03	*	*	1.06e+03	*
98	PCB-150	*	1.20e+03	*	*	1.06e+03	*
99	PCB-136	*	1.20e+03	*	*	1.06e+03	*
100	PCB-145	*	1.20e+03	*	*	1.06e+03	*
101	PCB-148	*	1.20e+03	*	*	1.06e+03	*
102	PCB-135/151	*	1.20e+03	*	*	1.06e+03	*
103	PCB-154	*	1.20e+03	*	*	1.06e+03	*
104	PCB-144	*	1.20e+03	*	*	1.06e+03	*

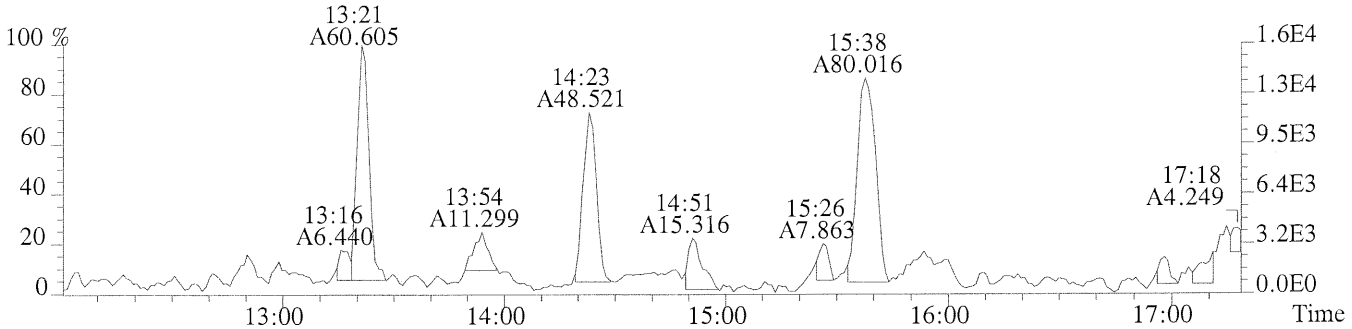
105	PCB-147/149	*	7.72e+02	*	*	7.08e+02	*
106	PCB-134	*	7.72e+02	*	*	7.08e+02	*
107	PCB-143	*	7.72e+02	*	*	7.08e+02	*
108	PCB-139/140	*	7.72e+02	*	*	7.08e+02	*
109	PCB-131	*	7.72e+02	*	*	7.08e+02	*
110	PCB-142	*	7.72e+02	*	*	7.08e+02	*
111	PCB-132	*	7.72e+02	*	*	7.08e+02	*
112	PCB-133	*	7.72e+02	*	*	7.08e+02	*
113	PCB-165	*	7.72e+02	*	*	7.08e+02	*
114	PCB-146	*	7.72e+02	*	*	7.08e+02	*
115	PCB-161	*	7.72e+02	*	*	7.08e+02	*
116	PCB-153/168	*	7.72e+02	*	*	7.08e+02	*
117	PCB-141	*	7.72e+02	*	*	7.08e+02	*
118	PCB-130	*	7.72e+02	*	*	7.08e+02	*
119	PCB-137	*	7.72e+02	*	*	7.08e+02	*
120	PCB-164	*	7.72e+02	*	*	7.08e+02	*
121	PCB-129/138/163	*	7.72e+02	*	*	7.08e+02	*
122	PCB-160	*	7.72e+02	*	*	7.08e+02	*
123	PCB-158	*	7.72e+02	*	*	7.08e+02	*
124	PCB-128/166	*	7.72e+02	*	*	7.08e+02	*
125	PCB-159	*	1.23e+03	*	*	9.88e+02	*
126	PCB-162	*	1.23e+03	*	*	9.88e+02	*
127	PCB-167	*	1.23e+03	*	*	9.88e+02	*
128	PCB-156/157	*	1.23e+03	*	*	9.88e+02	*
129	PCB-169	*	1.23e+03	*	*	9.88e+02	*
130	PCB-188	*	8.48e+02	*	*	7.20e+02	*
131	PCB-179	*	8.48e+02	*	*	7.20e+02	*
132	PCB-184	*	8.48e+02	*	*	7.20e+02	*
133	PCB-176	*	8.48e+02	*	*	7.20e+02	*
134	PCB-186	*	8.48e+02	*	*	7.20e+02	*
135	PCB-178	*	8.48e+02	*	*	7.20e+02	*
136	PCB-175	*	8.48e+02	*	*	7.20e+02	*
137	PCB-187	*	8.48e+02	*	*	7.20e+02	*
138	PCB-182	*	8.48e+02	*	*	7.20e+02	*
139	PCB-183	*	1.22e+03	*	*	1.31e+03	*
140	PCB-185	*	1.22e+03	*	*	1.31e+03	*
141	PCB-174	*	1.22e+03	*	*	1.31e+03	*
142	PCB-177	*	1.22e+03	*	*	1.31e+03	*
143	PCB-181	*	1.22e+03	*	*	1.31e+03	*
144	PCB-171/173	*	1.22e+03	*	*	1.31e+03	*
145	PCB-172	*	1.22e+03	*	*	1.31e+03	*
146	PCB-192	*	1.22e+03	*	*	1.31e+03	*
147	PCB-180/193	*	1.22e+03	*	*	1.31e+03	*
148	PCB-191	*	1.22e+03	*	*	1.31e+03	*
149	PCB-170	*	1.22e+03	*	*	1.31e+03	*
150	PCB-190	*	1.22e+03	*	*	1.31e+03	*
151	PCB-189	*	1.22e+03	*	*	1.31e+03	*
152	PCB-202	*	1.22e+03	*	*	1.12e+03	*
153	PCB-201	*	1.22e+03	*	*	1.12e+03	*
154	PCB-204	*	1.22e+03	*	*	1.12e+03	*
155	PCB-197	*	1.22e+03	*	*	1.12e+03	*
156	PCB-200	*	1.22e+03	*	*	1.12e+03	*
157	PCB-198/199	*	1.22e+03	*	*	1.12e+03	*
158	PCB-196	*	1.22e+03	*	*	1.12e+03	*
159	PCB-203	*	1.22e+03	*	*	1.12e+03	*
160	PCB-195	*	1.22e+03	*	*	1.12e+03	*
161	PCB-194	*	1.22e+03	*	*	1.12e+03	*
162	PCB-205	*	1.22e+03	*	*	1.12e+03	*

163	PCB-208	*	8.64e+02	*	*	1.01e+03	*
164	PCB-207	*	8.64e+02	*	*	1.01e+03	*
165	PCB-206	*	9.72e+02	*	*	8.40e+02	*
166	PCB-209	*	7.84e+02	*	*	5.12e+02	*
167	PCB-1L	5.28e+06	1.87e+03	2.8e+03	1.73e+06	1.04e+04	1.7e+02
168	PCB-3L	4.00e+06	1.87e+03	2.1e+03	1.30e+06	1.04e+04	1.3e+02
169	PCB-4L	1.91e+06	1.32e+03	1.4e+03	1.23e+06	1.39e+03	8.8e+02
170	PCB-15L	2.95e+06	1.31e+03	2.3e+03	1.83e+06	1.89e+03	9.7e+02
171	PCB-19L	1.60e+06	1.20e+05	1.3e+01	1.51e+06	1.72e+05	8.8e+00
172	PCB-37L	1.91e+06	2.24e+04	8.5e+01	1.76e+06	5.33e+04	3.3e+01
173	PCB-54L	1.79e+06	5.15e+03	3.5e+02	2.24e+06	4.22e+03	5.3e+02
174	PCB-81L	1.63e+06	5.06e+03	3.2e+02	2.00e+06	4.80e+03	4.2e+02
175	PCB-77L	1.61e+06	5.06e+03	3.2e+02	2.06e+06	4.80e+03	4.3e+02
176	PCB-104L	1.95e+06	1.06e+03	1.9e+03	1.28e+06	8.64e+02	1.5e+03
177	PCB-123L	1.91e+06	2.83e+03	6.7e+02	1.24e+06	4.70e+03	2.6e+02
178	PCB-118L	1.92e+06	2.83e+03	6.8e+02	1.26e+06	4.70e+03	2.7e+02
179	PCB-114L	2.14e+06	2.83e+03	7.6e+02	1.31e+06	4.70e+03	2.8e+02
180	PCB-105L	1.95e+06	2.83e+03	6.9e+02	1.22e+06	4.70e+03	2.6e+02
181	PCB-126L	1.83e+06	2.83e+03	6.5e+02	1.08e+06	4.70e+03	2.3e+02
182	PCB-155L	2.06e+06	9.32e+02	2.2e+03	1.69e+06	6.76e+02	2.5e+03
183	PCB-167L	1.64e+06	3.10e+03	5.3e+02	1.23e+06	1.24e+03	9.9e+02
184	PCB-156/157L	2.40e+06	3.10e+03	7.7e+02	1.88e+06	1.24e+03	1.5e+03
185	PCB-169L	1.52e+06	3.10e+03	4.9e+02	1.21e+06	1.24e+03	9.8e+02
186	PCB-188L	1.94e+06	1.38e+03	1.4e+03	1.89e+06	6.36e+02	3.0e+03
187	PCB-189L	1.58e+06	1.27e+03	1.2e+03	1.51e+06	9.28e+02	1.6e+03
188	PCB-202L	1.77e+06	1.24e+03	1.4e+03	1.93e+06	1.31e+03	1.5e+03
189	PCB-205L	1.20e+06	1.24e+03	9.7e+02	1.29e+06	1.31e+03	9.9e+02
190	PCB-208L	1.16e+06	1.03e+03	1.1e+03	1.53e+06	1.02e+03	1.5e+03
191	PCB-206L	8.33e+05	1.25e+03	6.7e+02	1.08e+06	8.72e+02	1.2e+03
192	PCB-209L	1.20e+06	7.60e+02	1.6e+03	1.00e+06	8.36e+02	1.2e+03
193	PCB-28L	2.26e+06	2.24e+04	1.0e+02	2.07e+06	5.33e+04	3.9e+01
194	PCB-111L	2.61e+06	1.14e+03	2.3e+03	1.67e+06	1.20e+03	1.4e+03
195	PCB-178L	1.32e+06	1.38e+03	9.6e+02	1.26e+06	6.36e+02	2.0e+03
196	PCB-9L	5.28e+06	1.31e+03	4.0e+03	3.26e+06	1.89e+03	1.7e+03
197	PCB-52L	2.17e+06	5.31e+03	4.1e+02	2.74e+06	4.06e+03	6.8e+02
198	PCB-101L	2.96e+06	1.14e+03	2.6e+03	1.83e+06	1.20e+03	1.5e+03
199	PCB-138L	2.29e+06	8.20e+02	2.8e+03	1.75e+06	9.76e+02	1.8e+03
200	PCB-194L	1.54e+06	1.24e+03	1.2e+03	1.68e+06	1.31e+03	1.3e+03

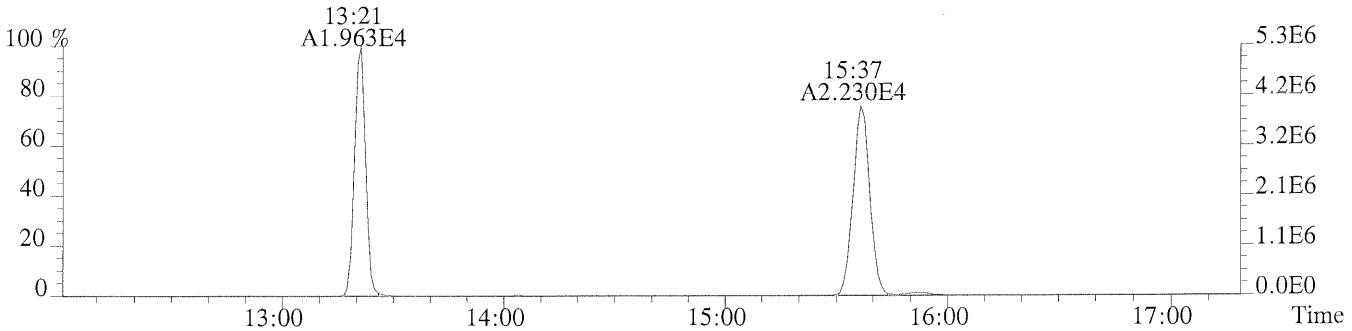
File:U142058 #1-341 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)



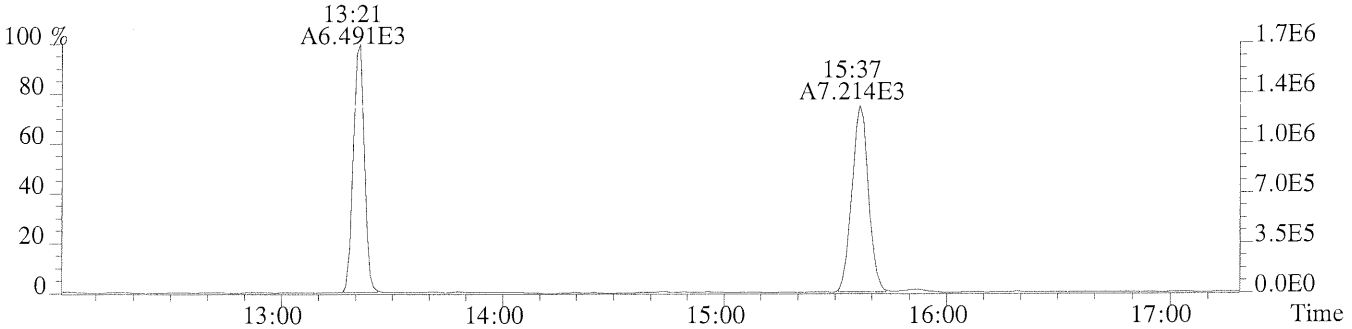
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)



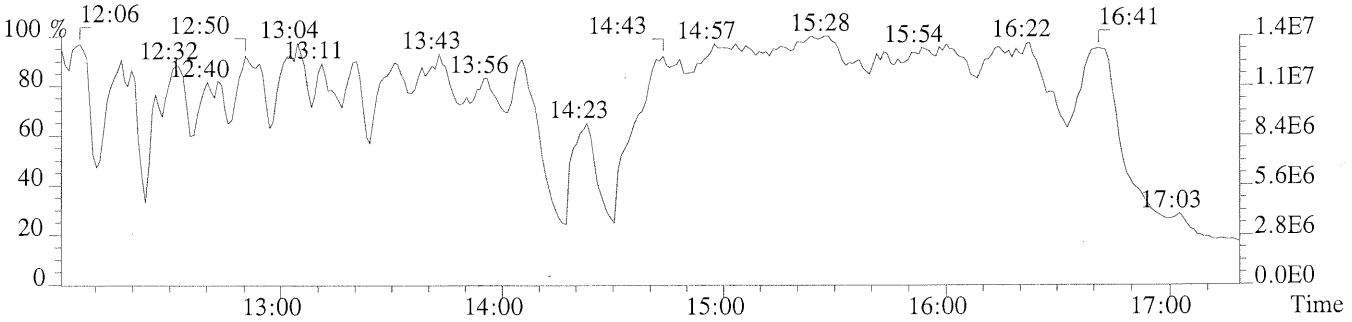
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1872.0,1.00%,F,T)



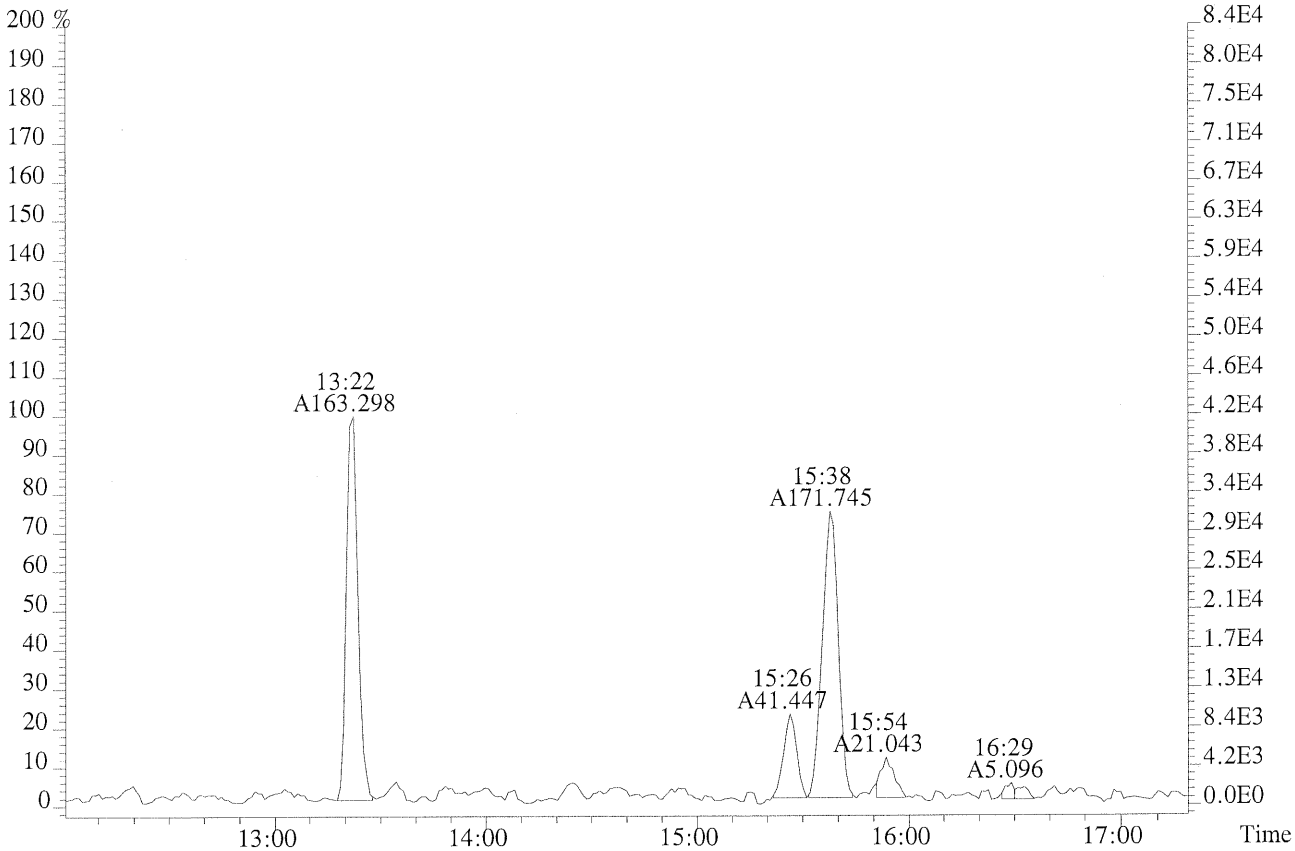
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10368.0,1.00%,F,T)



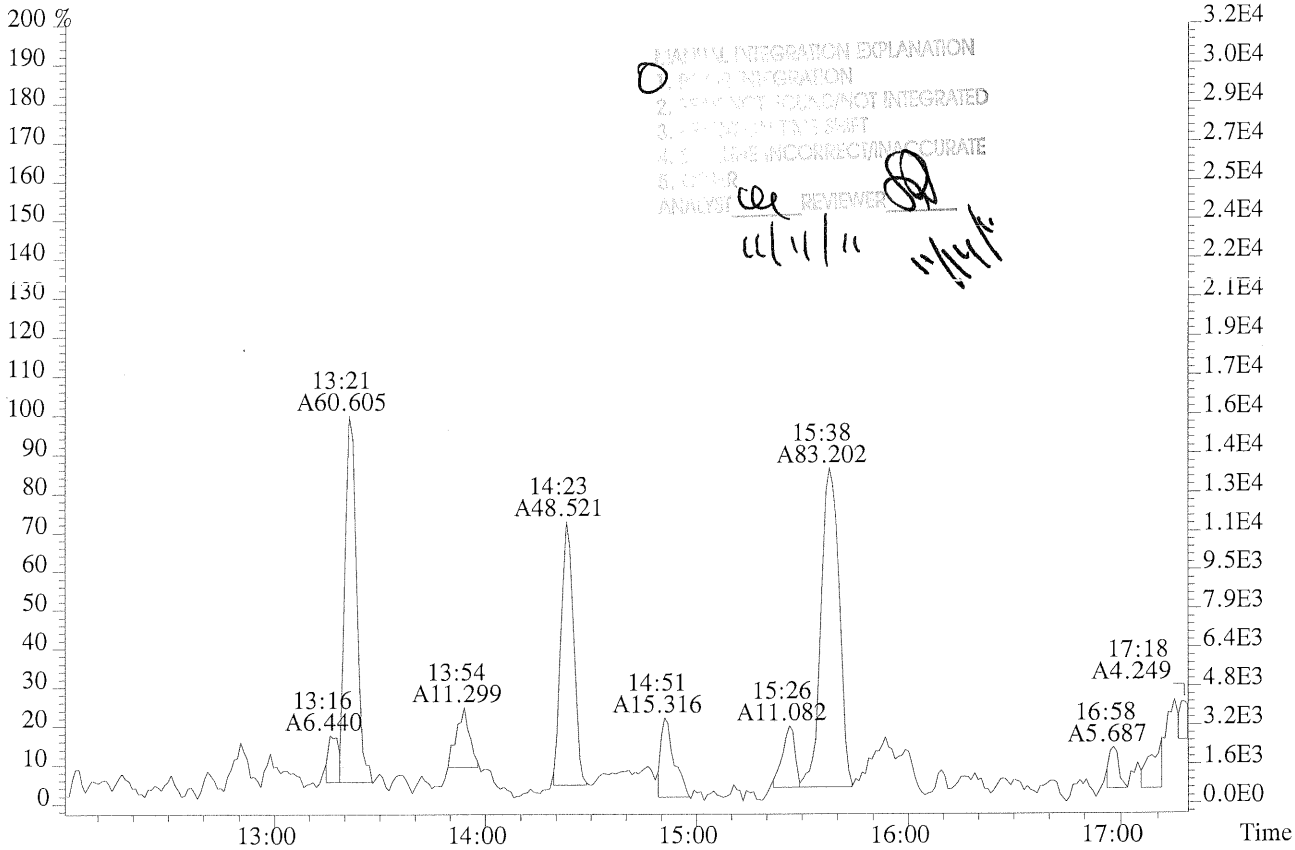
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



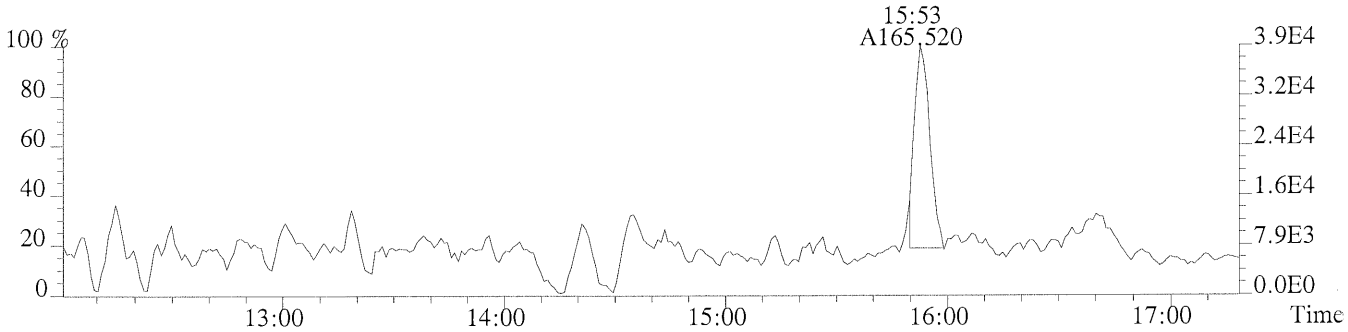
File:U142058 #1-341 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)



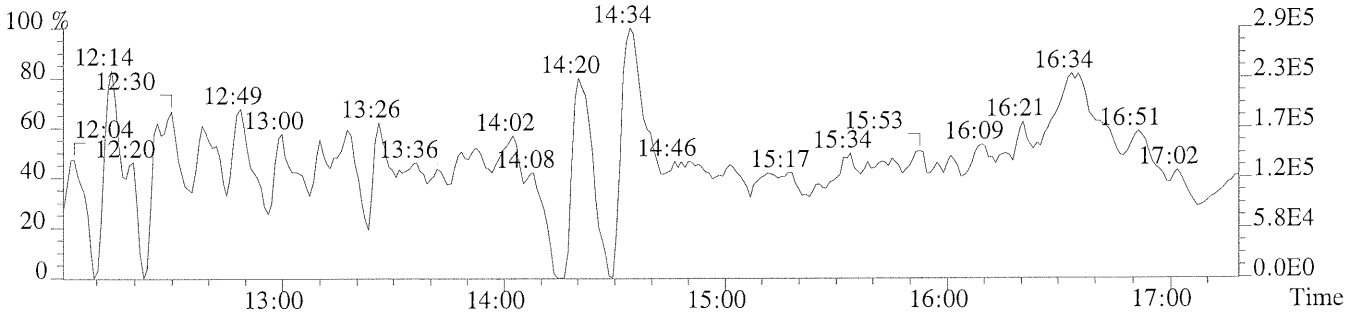
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)



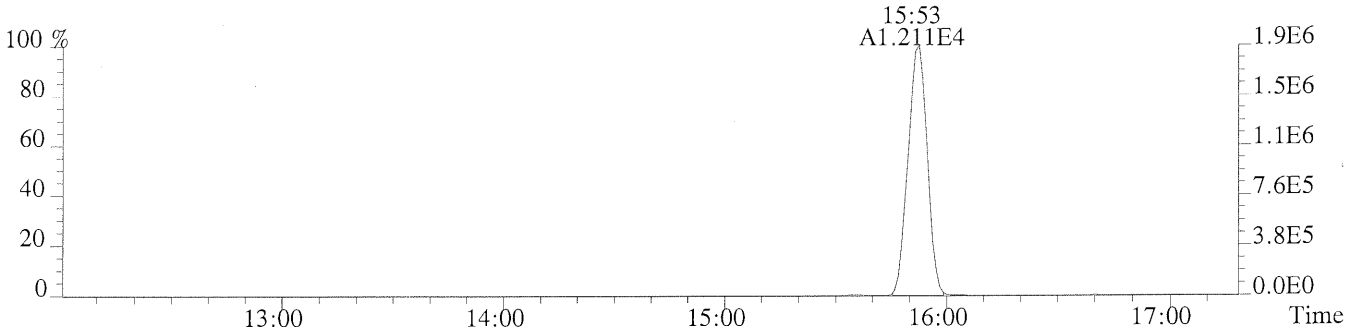
File:U142058 #1-341 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9304.0,1.00%,F,T)



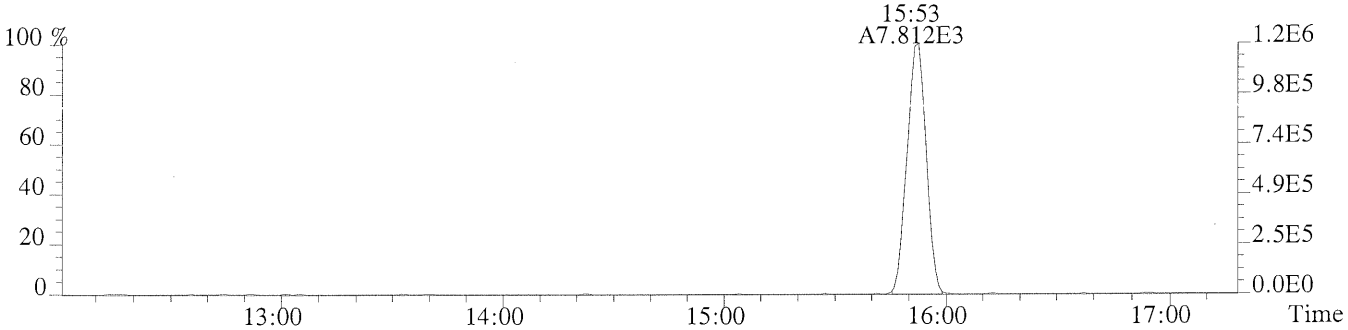
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,165712.0,1.00%,F,T)



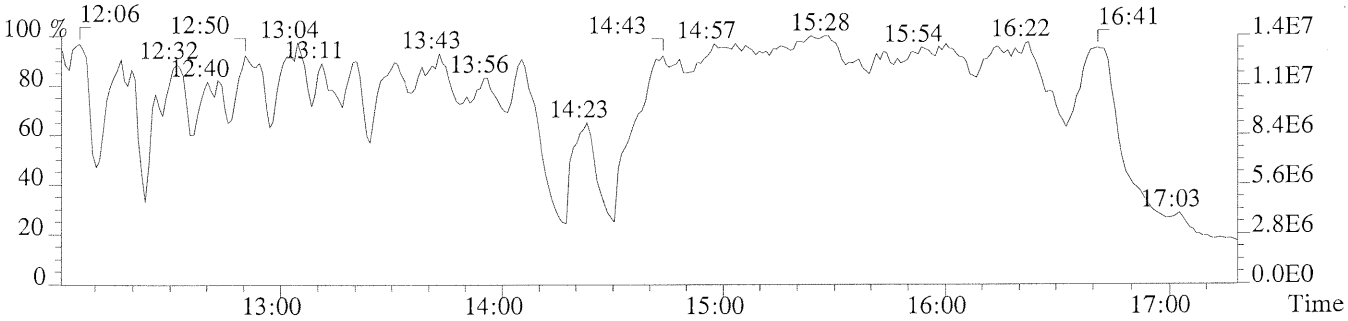
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1324.0,1.00%,F,T)



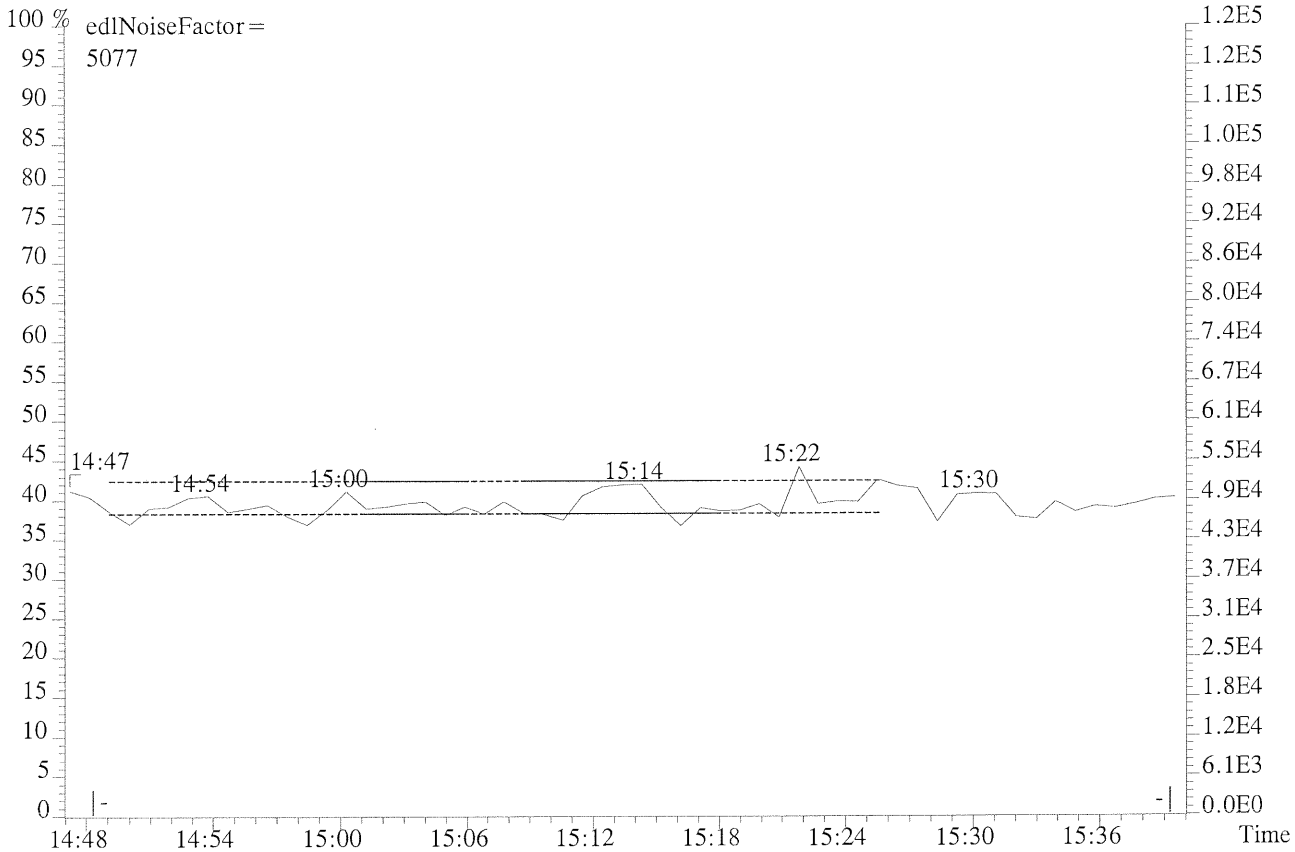
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1392.0,1.00%,F,T)



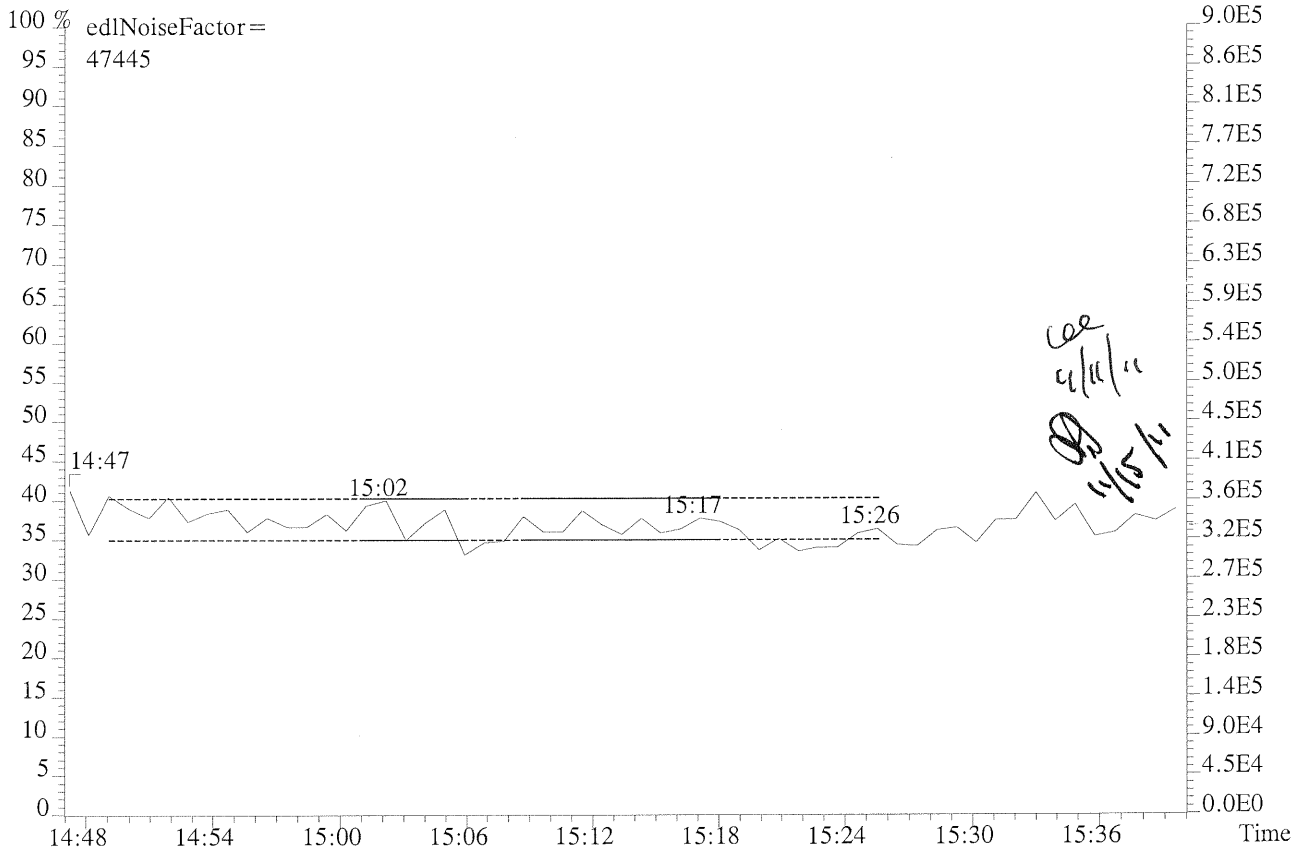
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



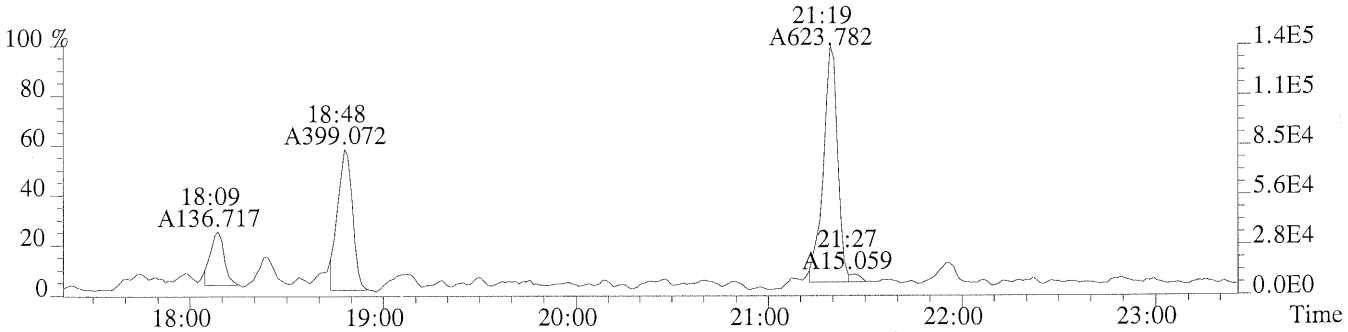
File:U142058 #1-341 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
222.0003



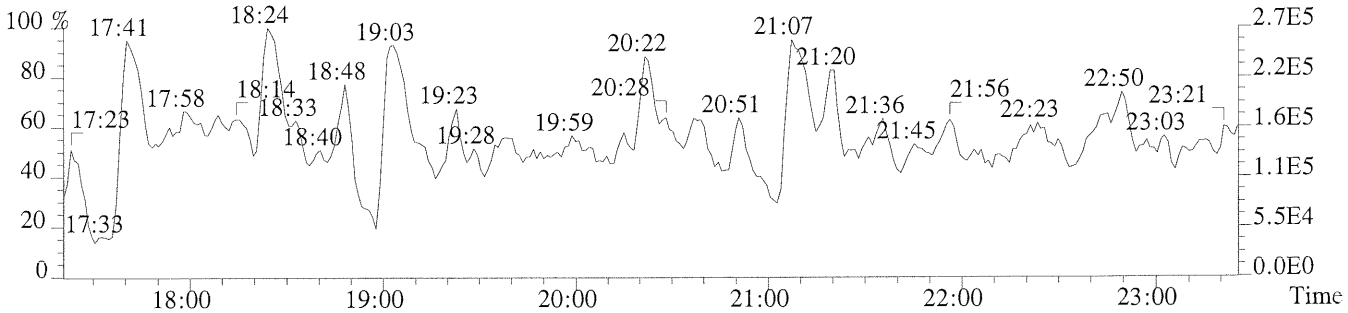
223.9974



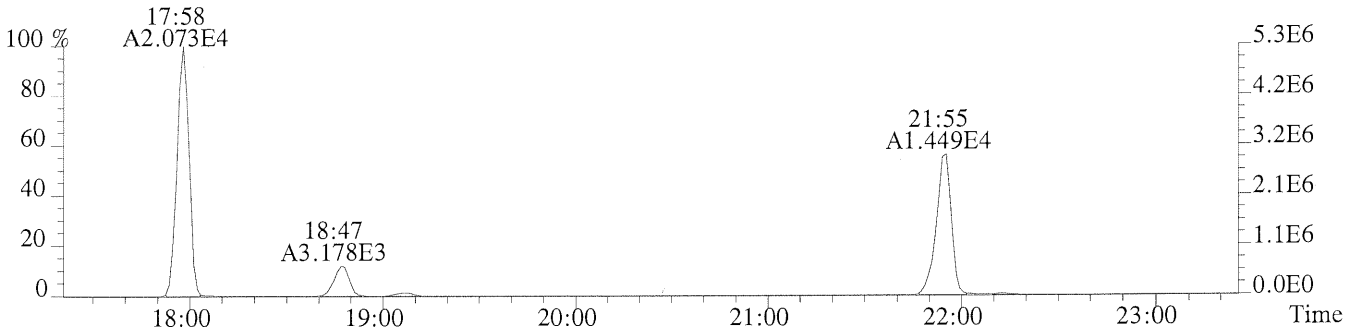
File:U142058 #1-336 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9588.0,1.00%,F,T)



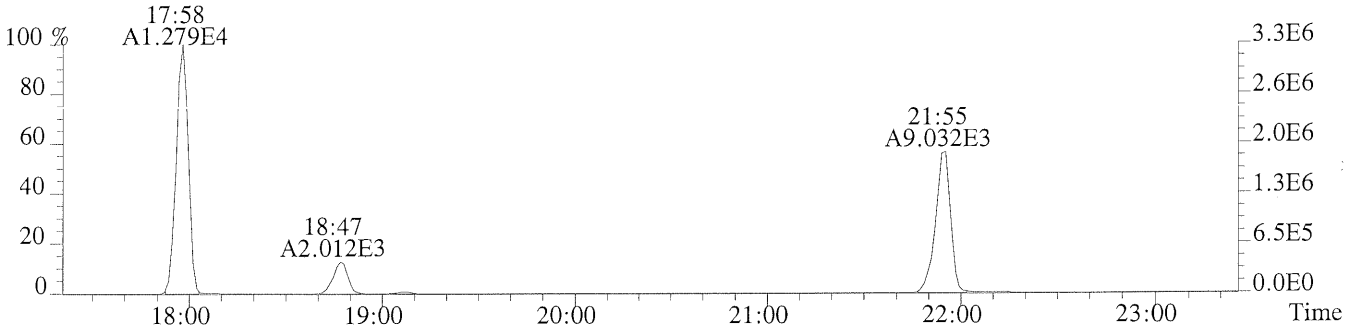
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,198680.0,1.00%,F,T)



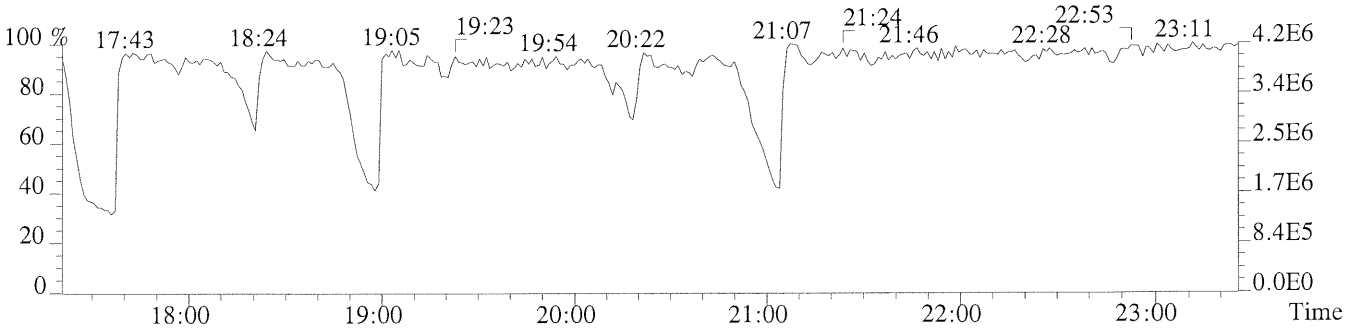
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1312.0,1.00%,F,T)



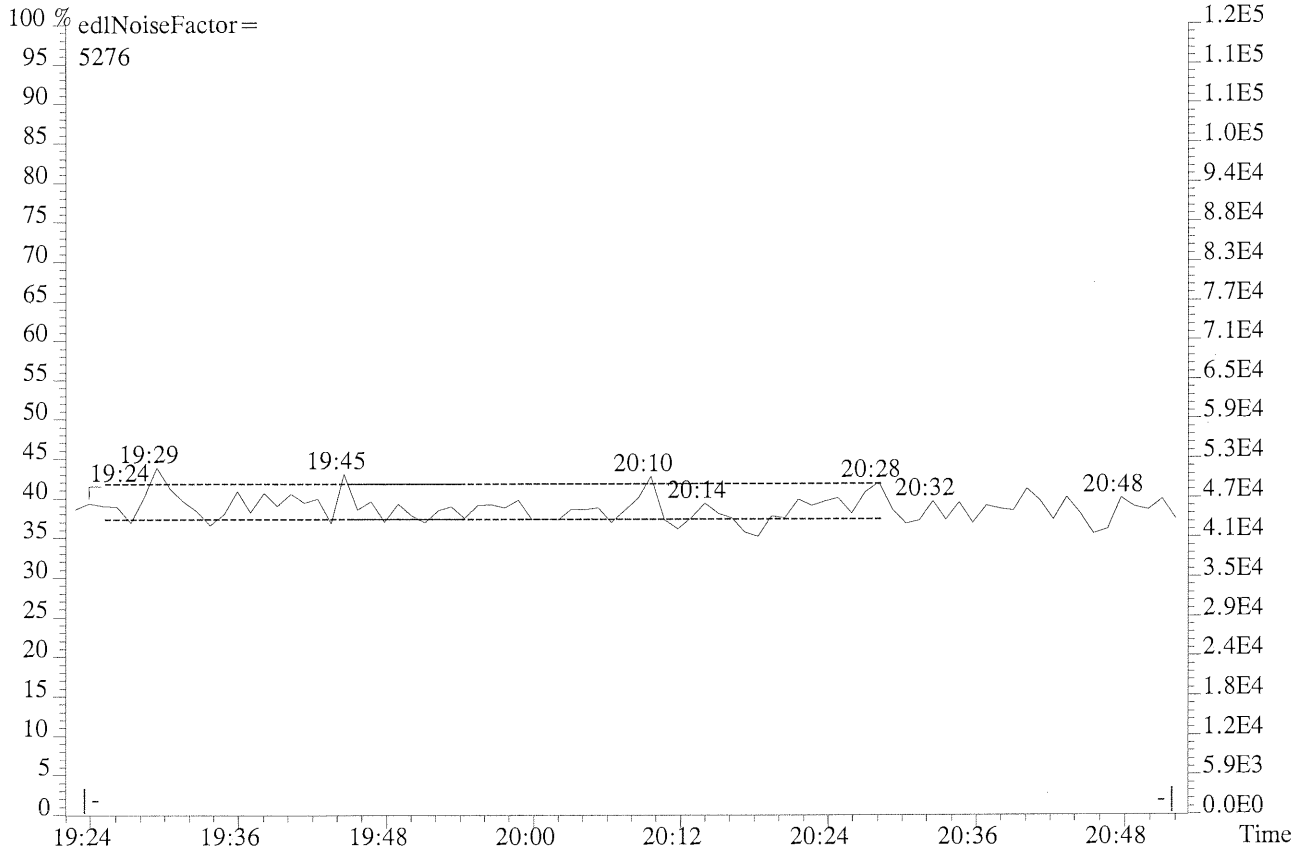
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1888.0,1.00%,F,T)



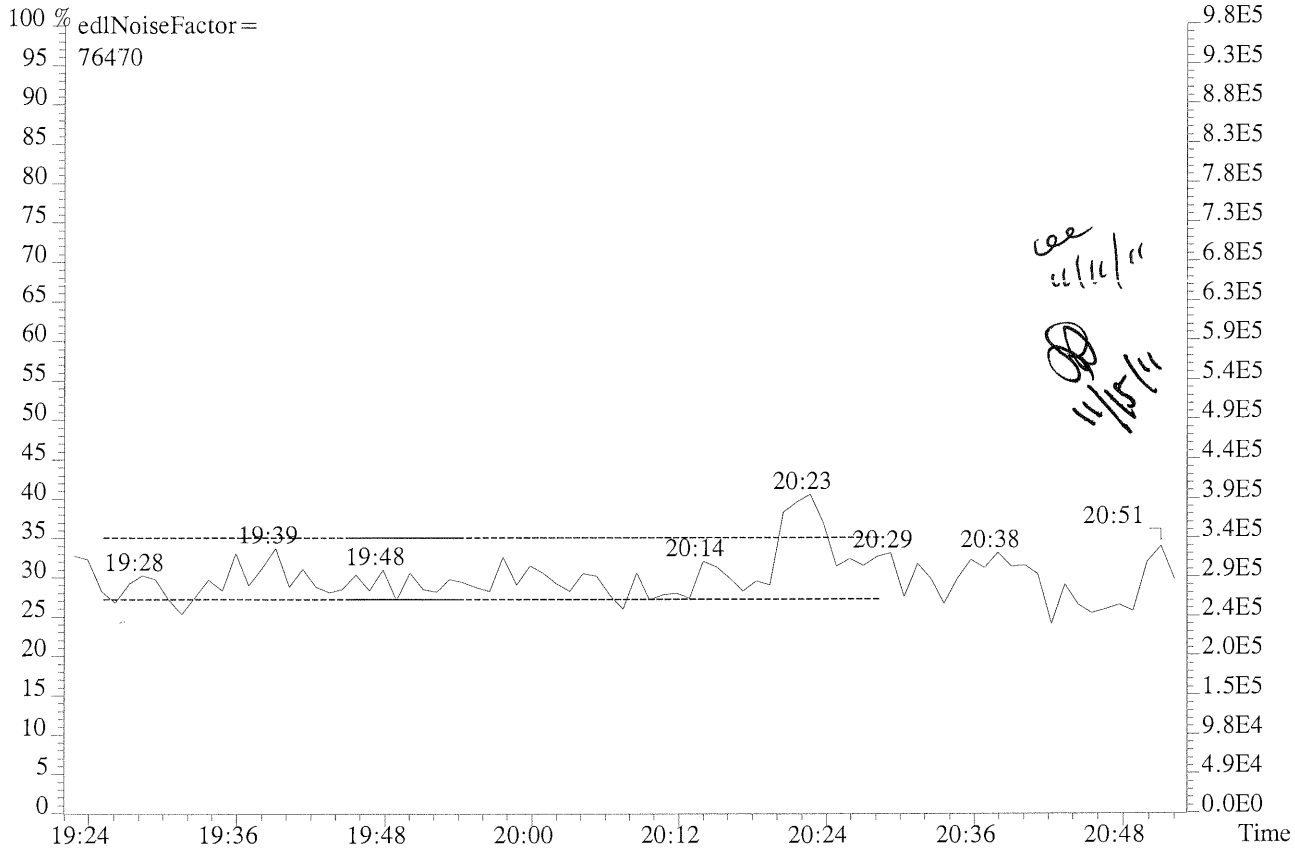
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



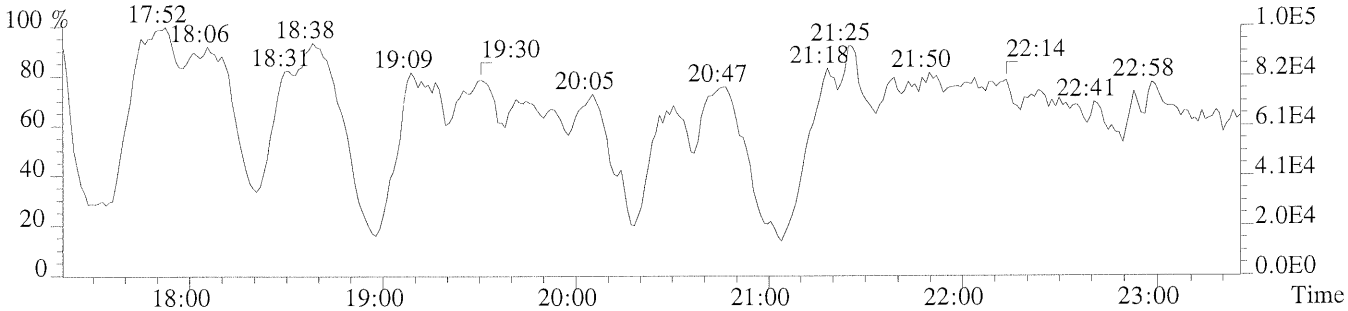
File:U142058 #1-336 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
222.0003 F:2



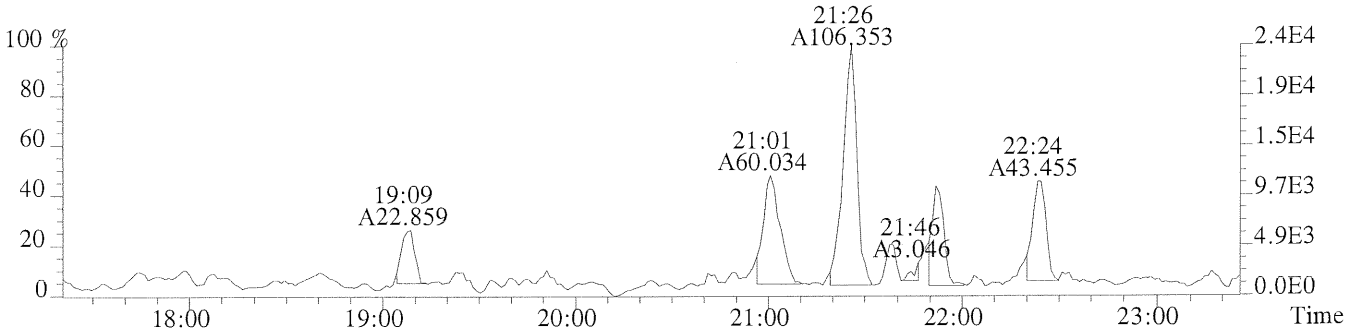
223.9974 F:2



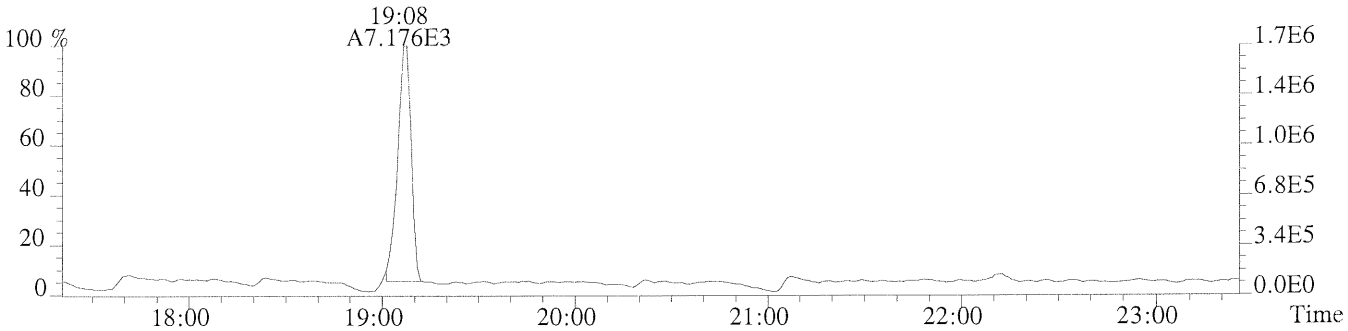
File:U142058 #1-336 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,89532.0,1.00%,F,T)



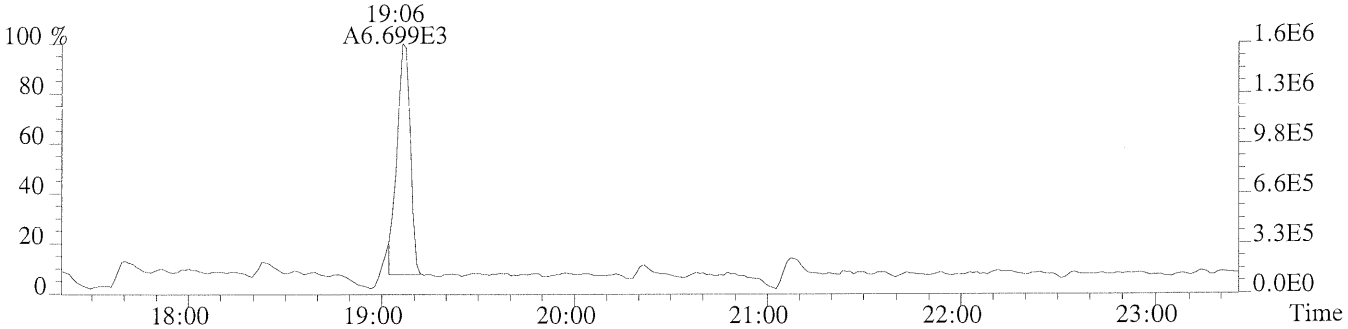
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1760.0,1.00%,F,T)



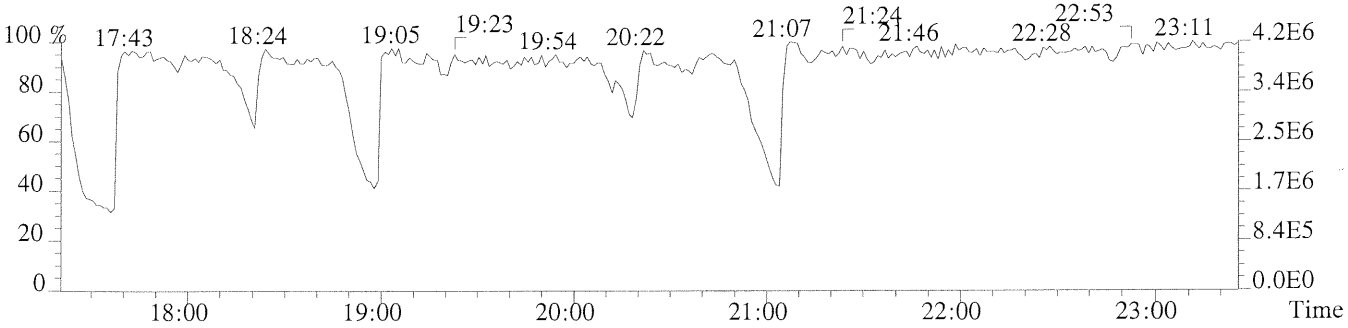
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,119700.0,1.00%,F,T)



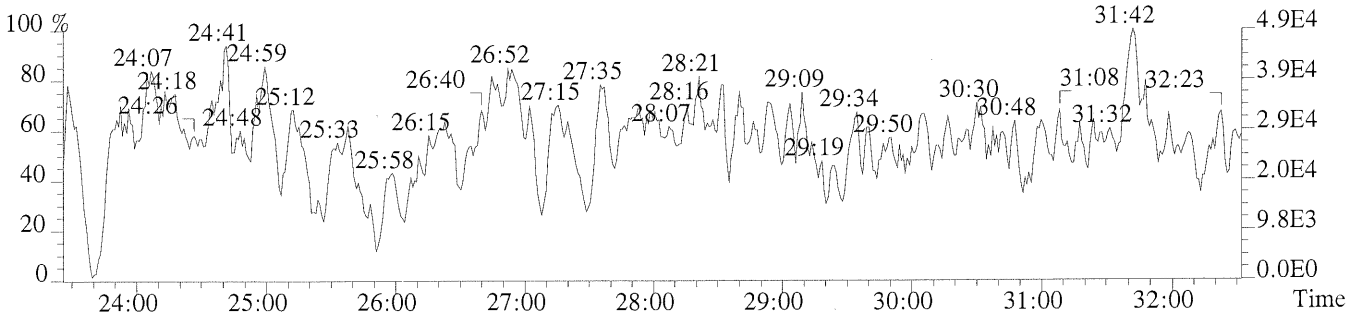
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,172260.0,1.00%,F,T)



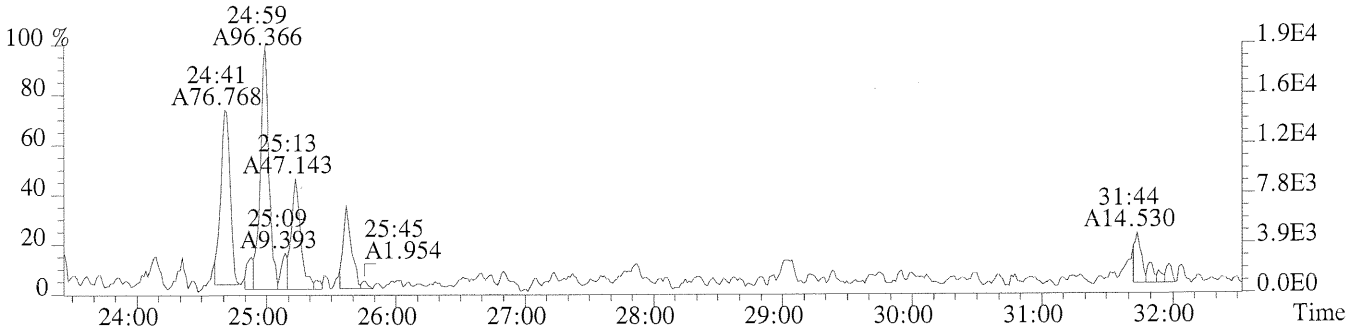
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



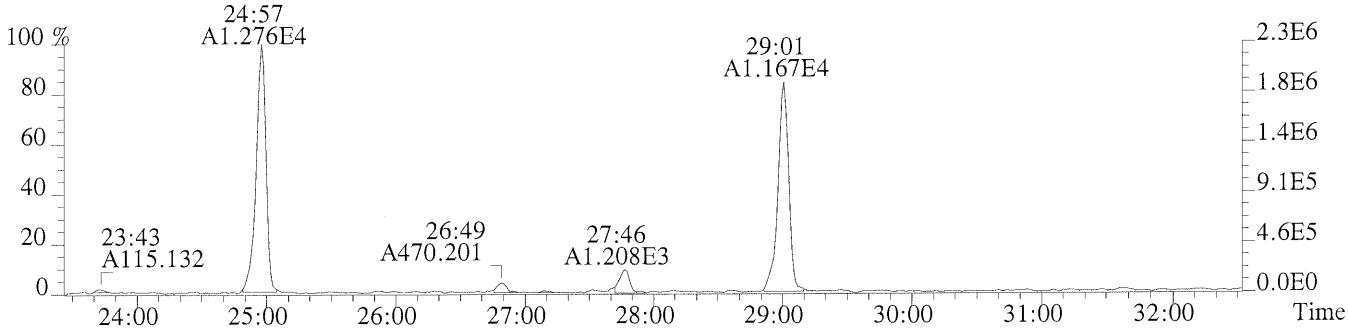
File:U142058 #1-582 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,36336.0,1.00%,F,T)



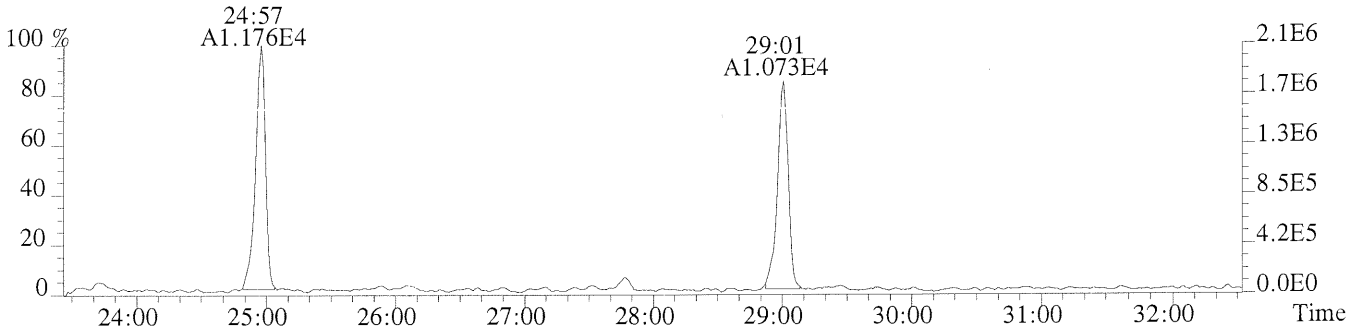
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1368.0,1.00%,F,T)



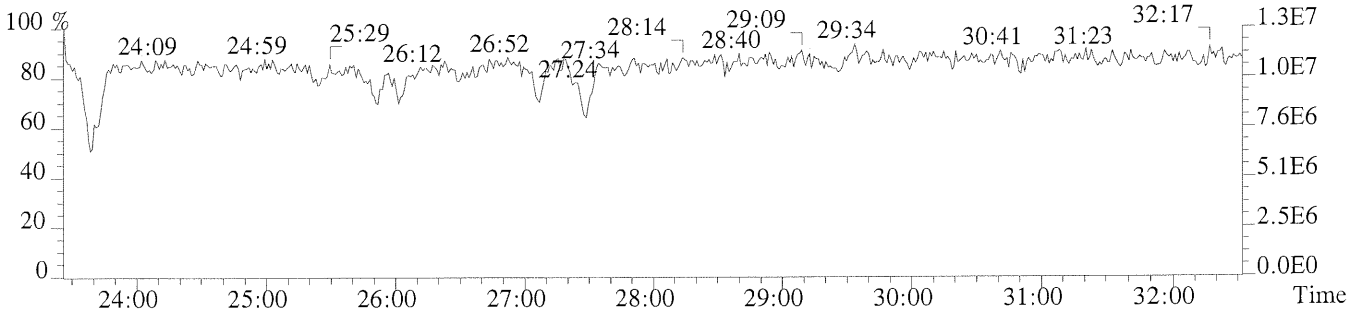
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,22412.0,1.00%,F,T)



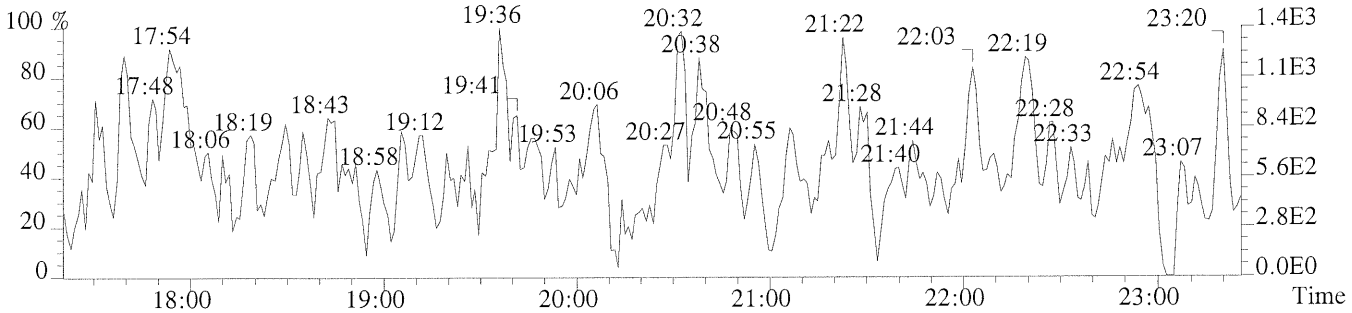
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,53260.0,1.00%,F,T)



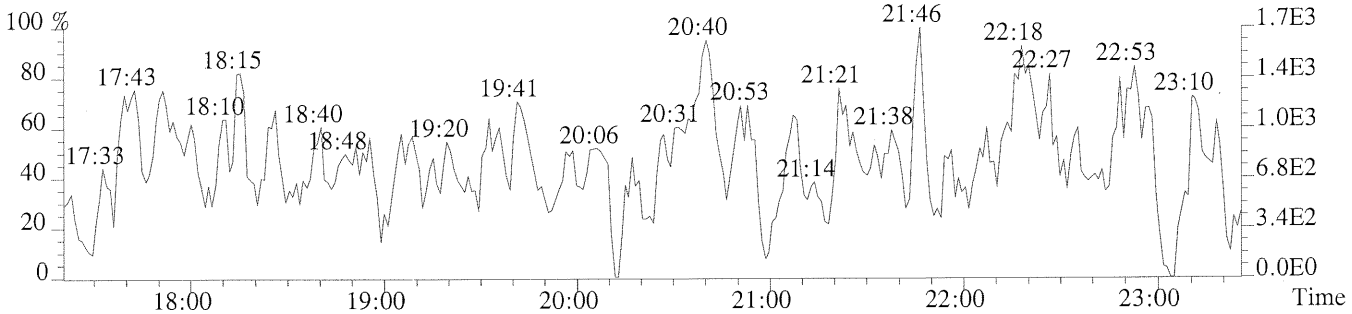
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



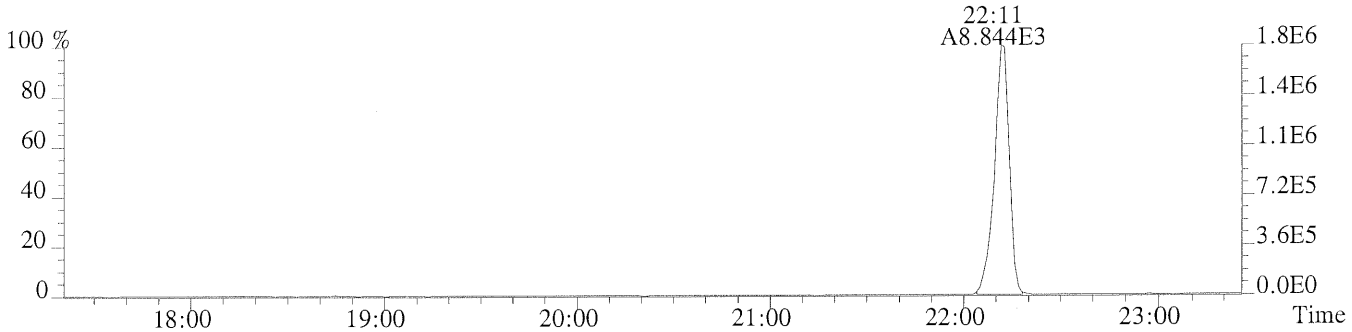
File:U142058 #1-336 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



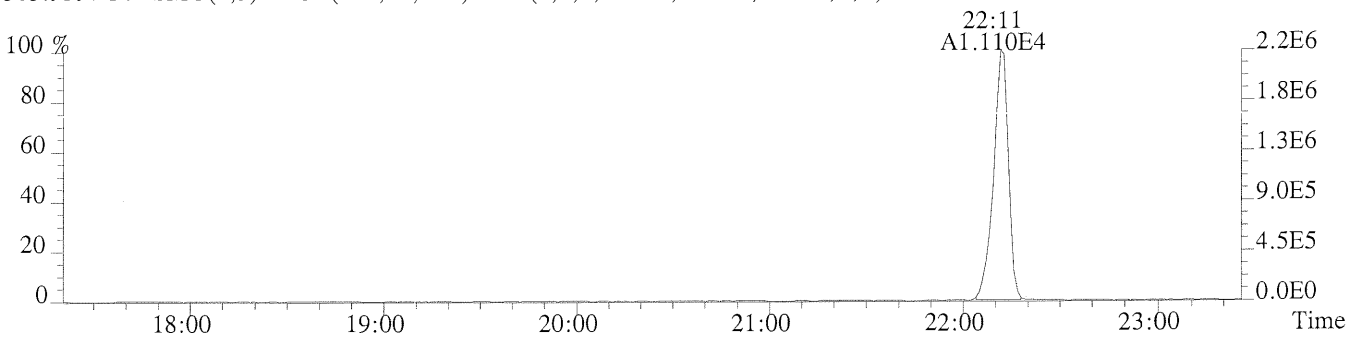
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,T)



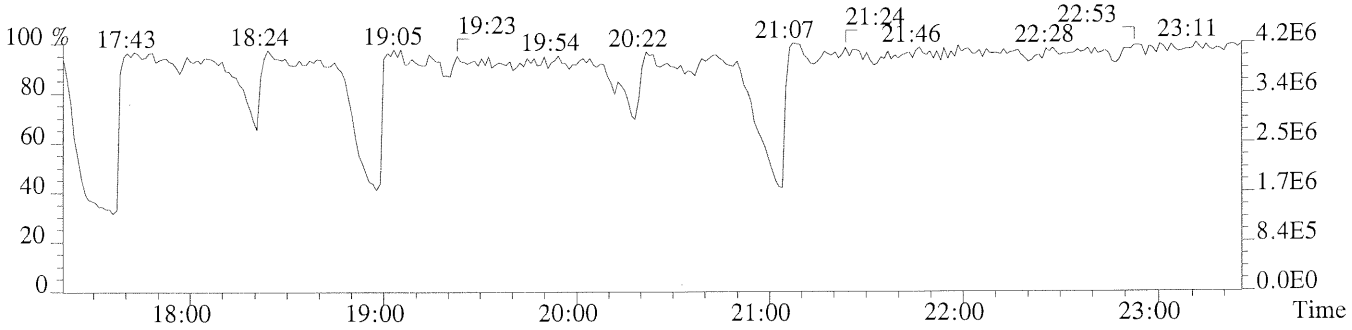
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5152.0,1.00%,F,T)



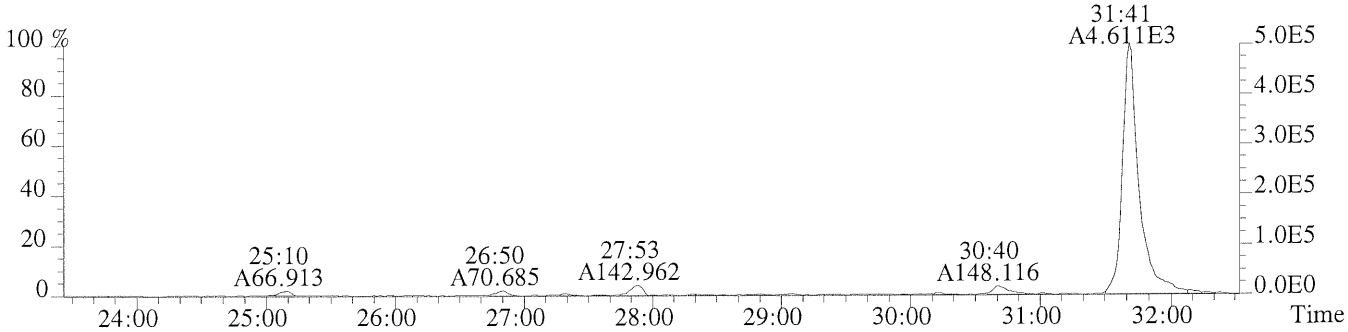
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4220.0,1.00%,F,T)



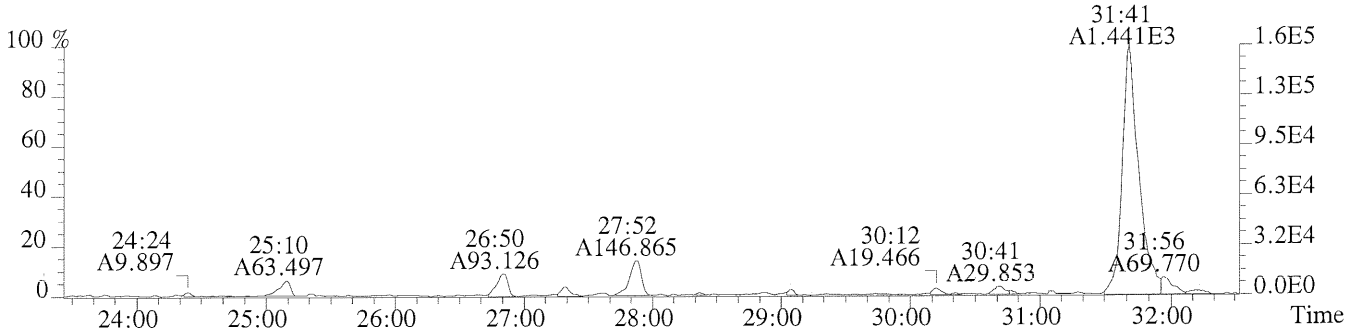
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



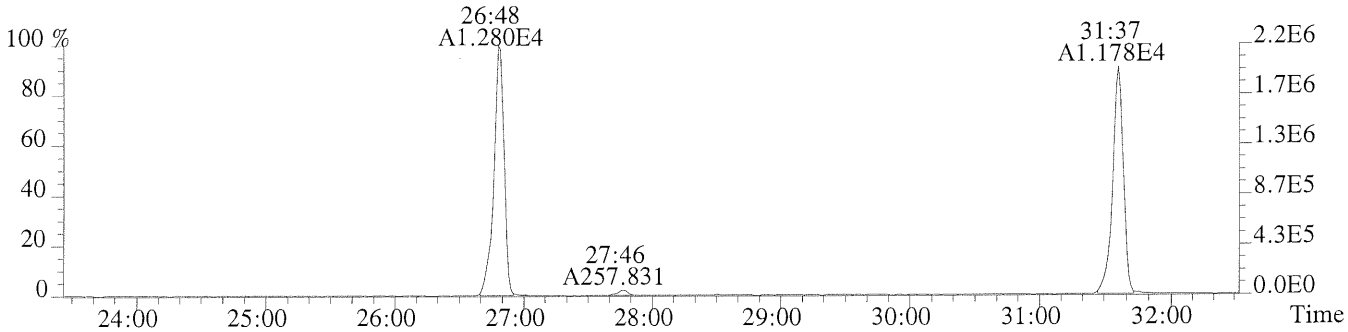
File:U142058 #1-582 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,980.0,1.00%,F,T)



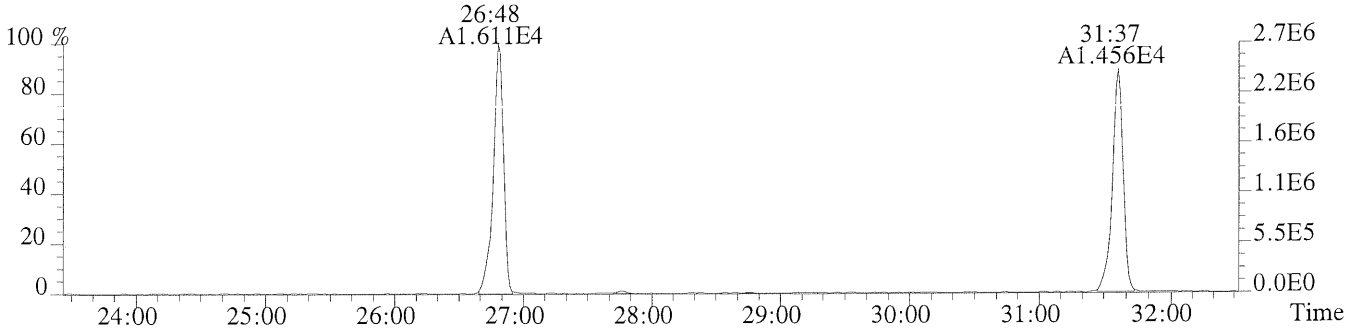
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



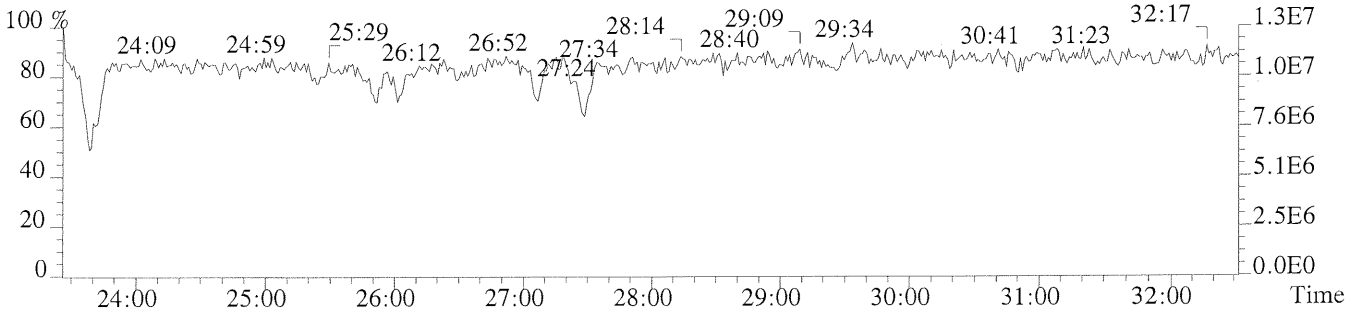
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5308.0,1.00%,F,T)



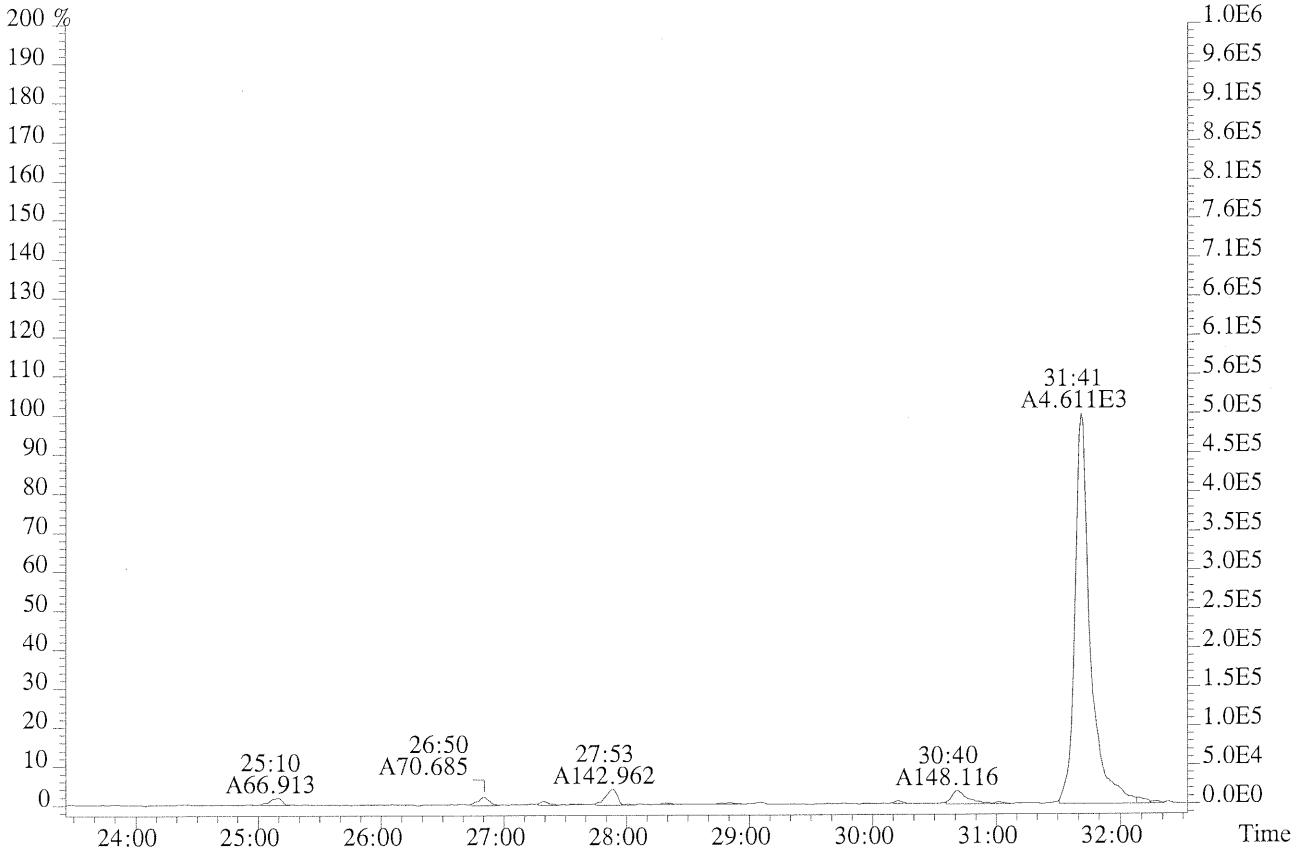
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4060.0,1.00%,F,T)



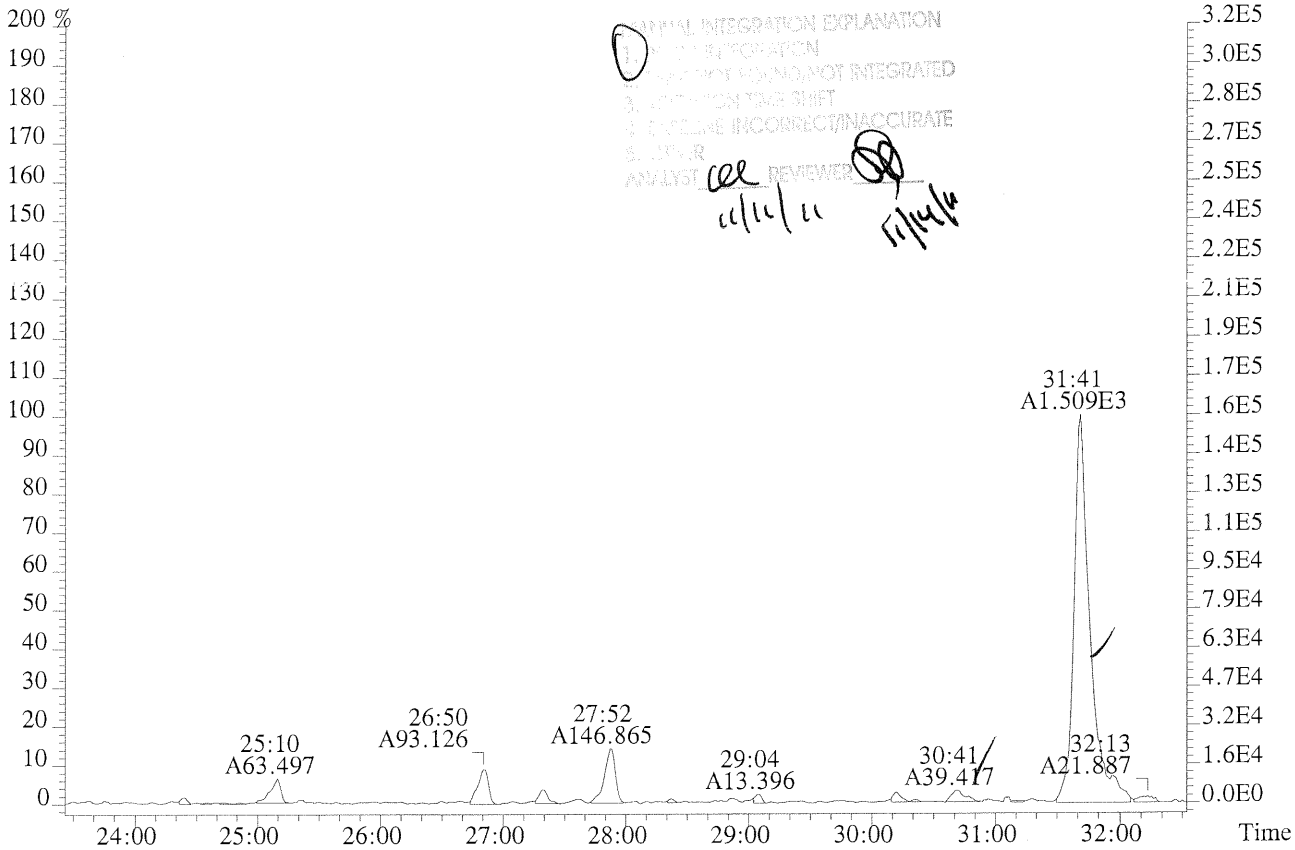
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142058 #1-582 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,980.0,1.00%,F,T)

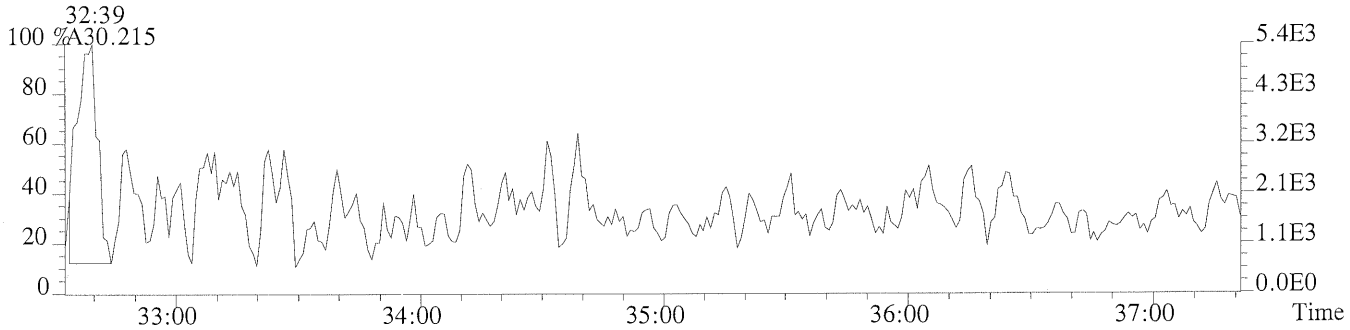


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)

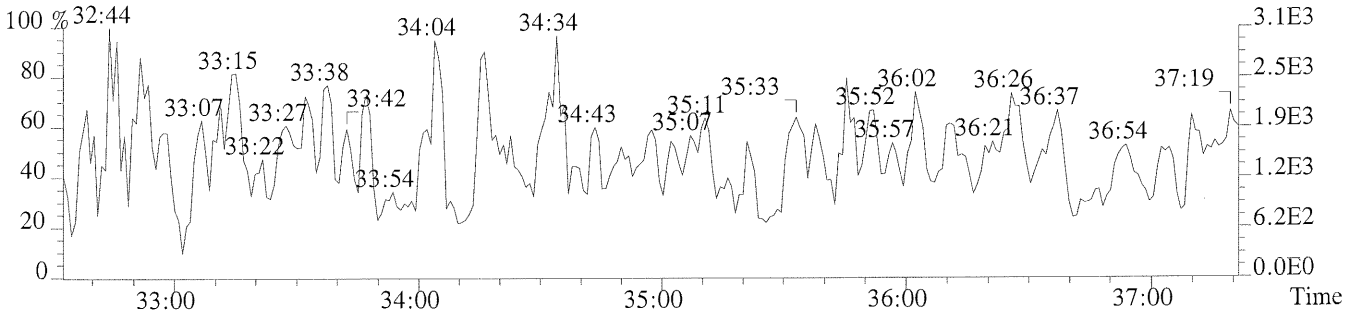


File:U142058 #1-308 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC

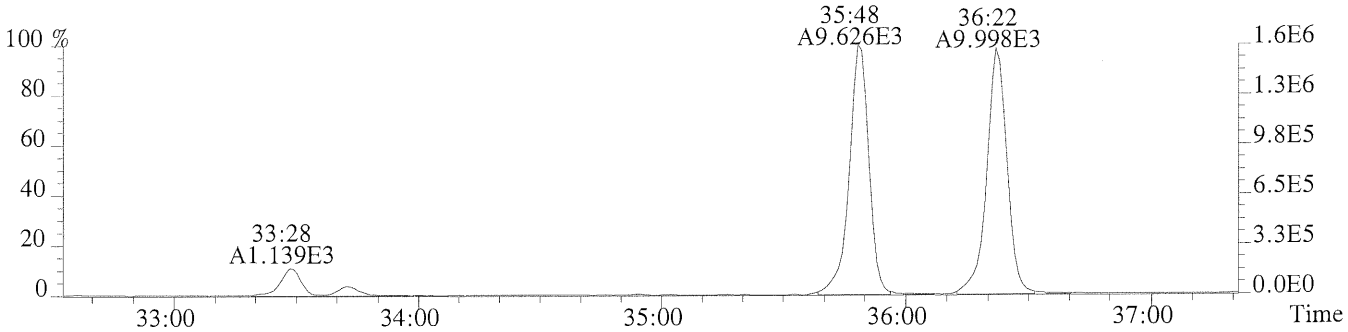
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2288.0,1.00%,F,T)



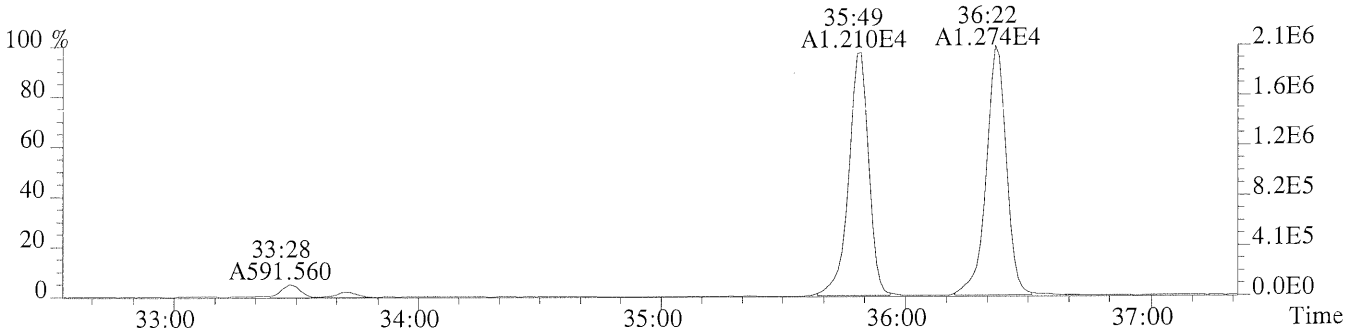
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1960.0,1.00%,F,T)



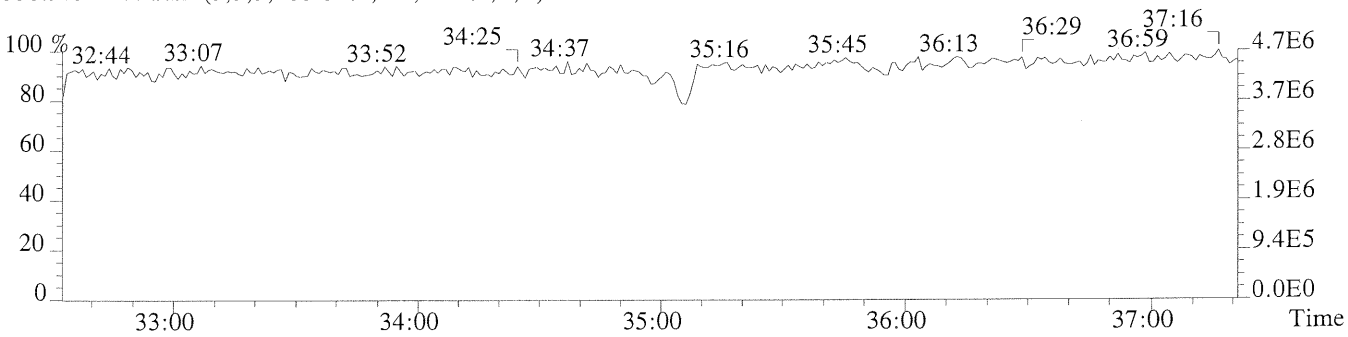
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5064.0,1.00%,F,T)



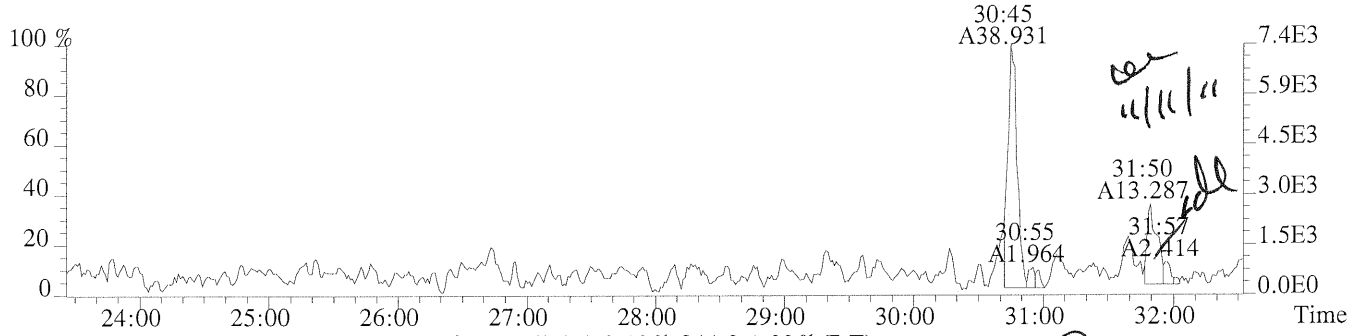
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4804.0,1.00%,F,T)



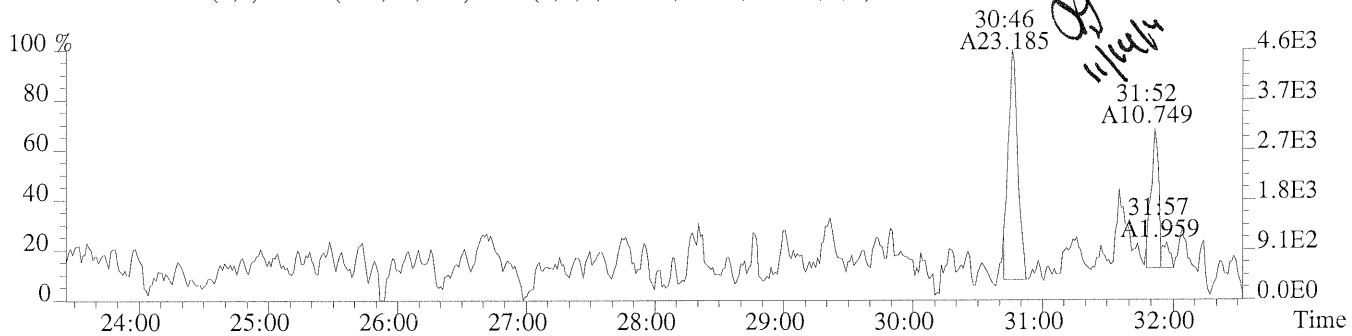
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



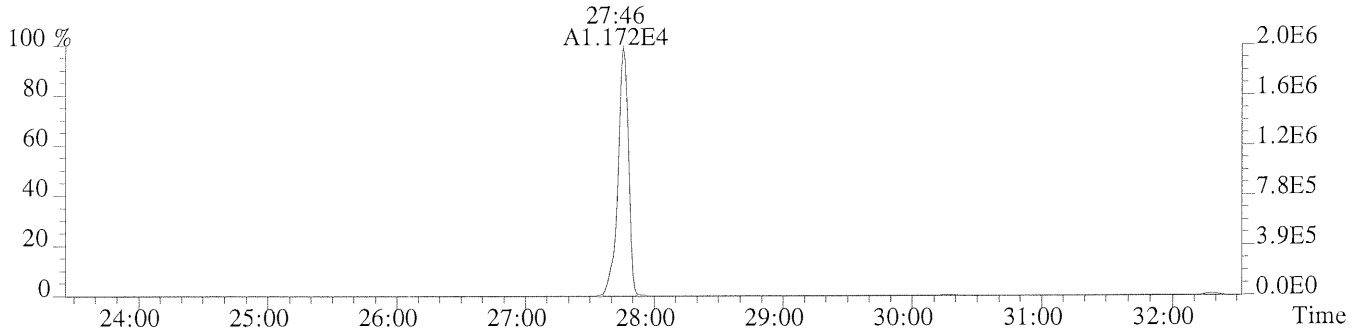
File:U142058 #1-582 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,824.0,1.00%,F,T)



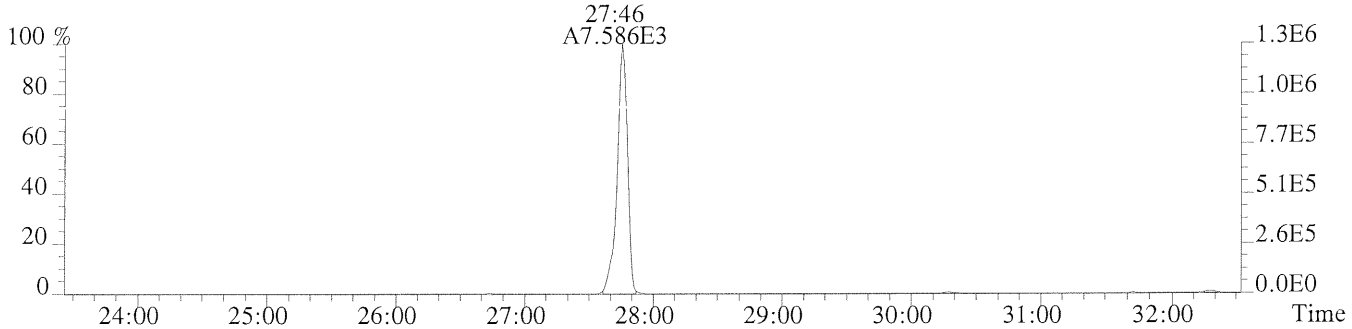
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)



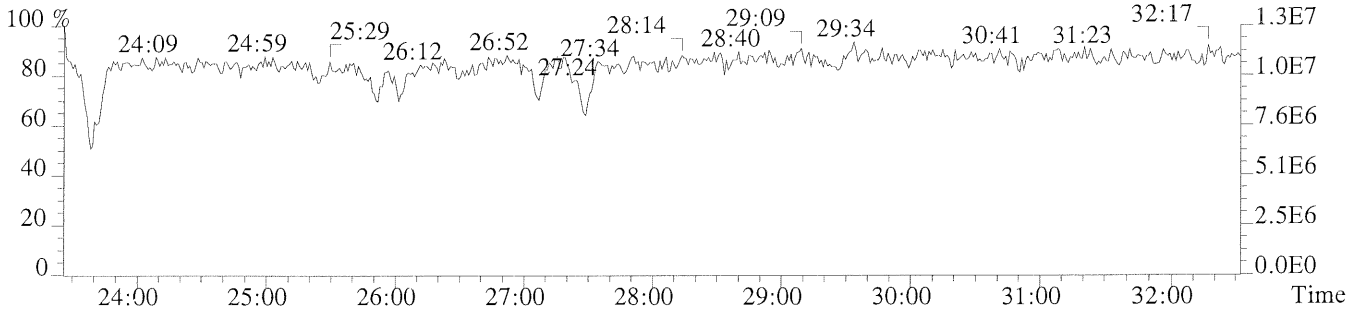
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1056.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)

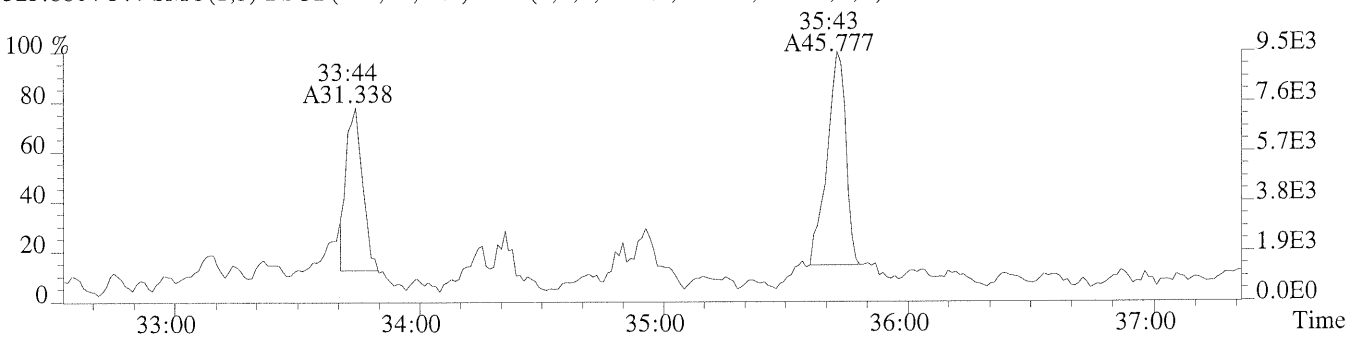


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

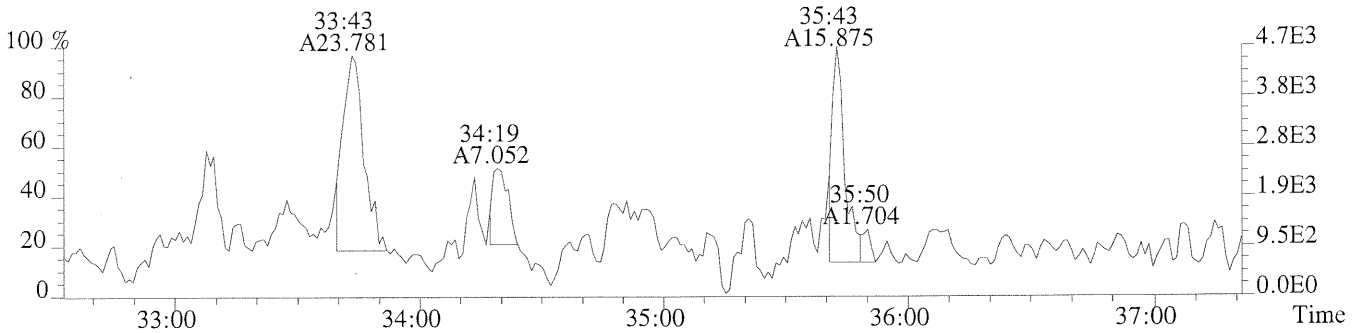


File:U142058 #1-308 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC

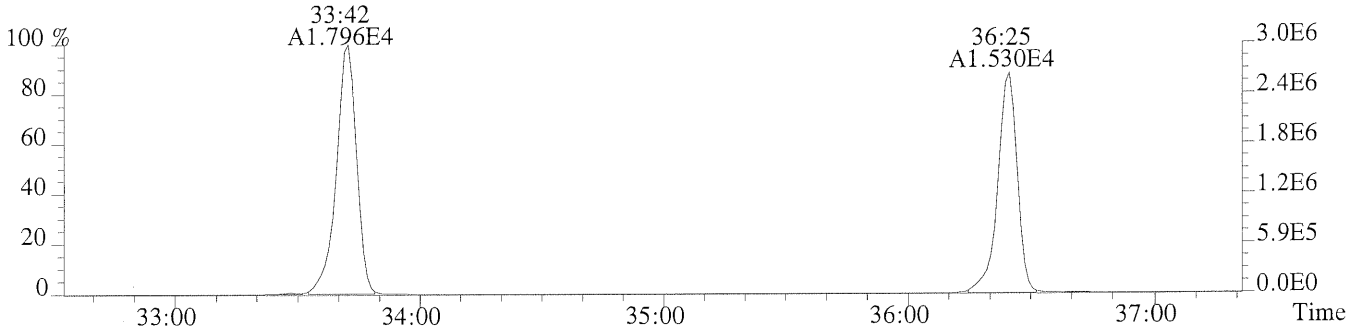
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1160.0,1.00%,F,T)



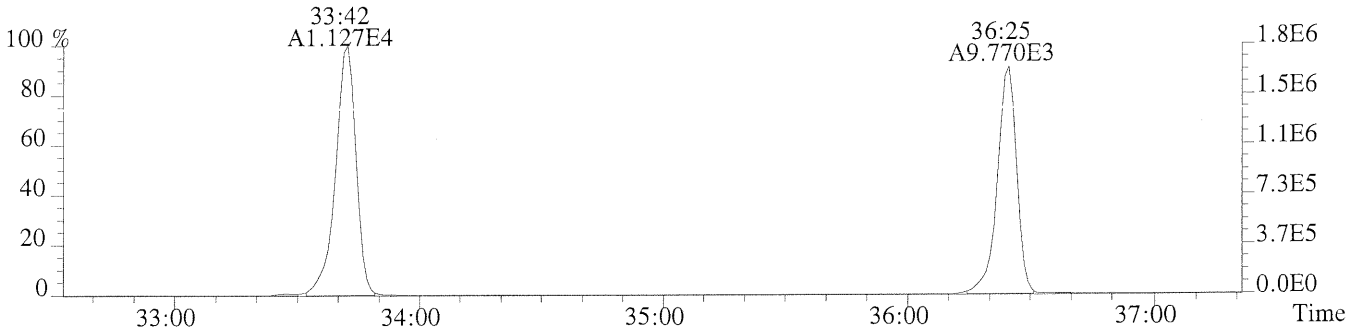
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1196.0,1.00%,F,T)



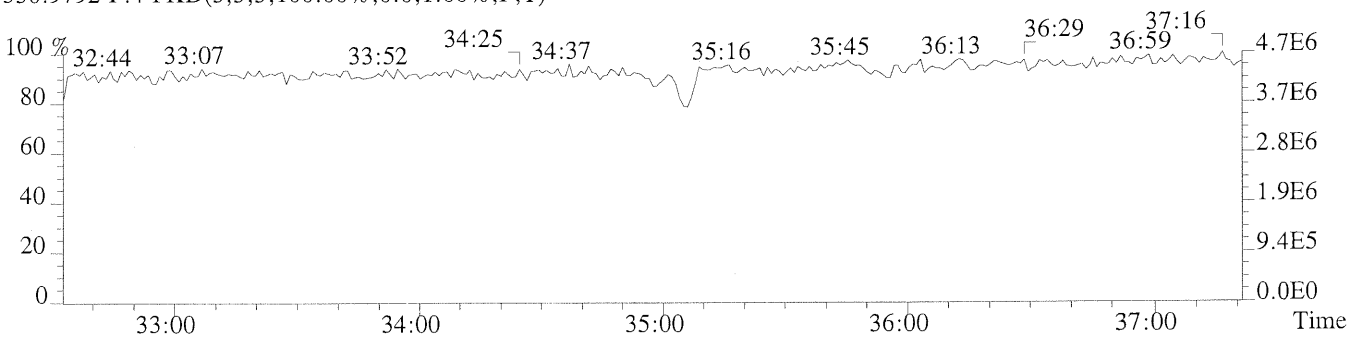
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1136.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)

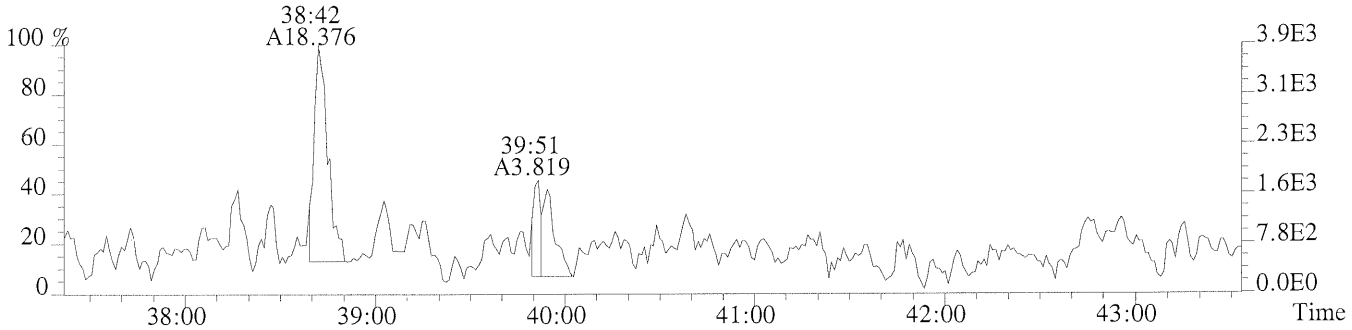


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

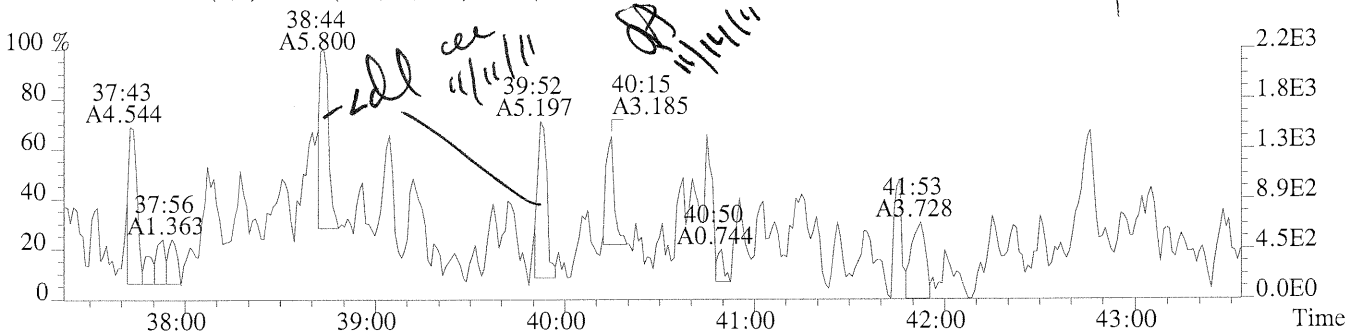


File:U142058 #1-396 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC

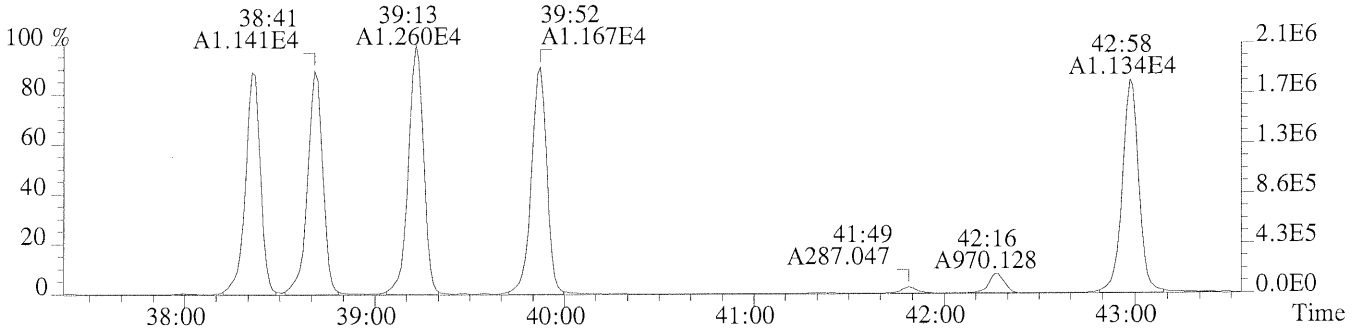
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



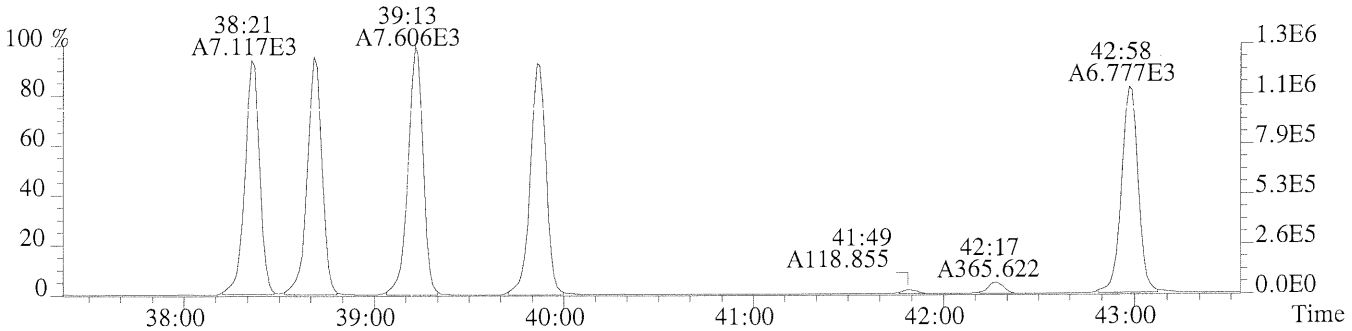
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,656.0,1.00%,F,T)



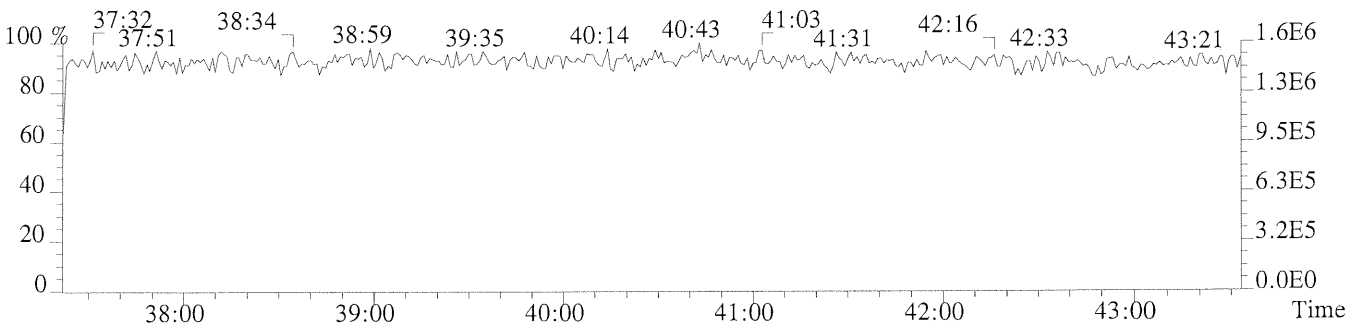
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2828.0,1.00%,F,T)



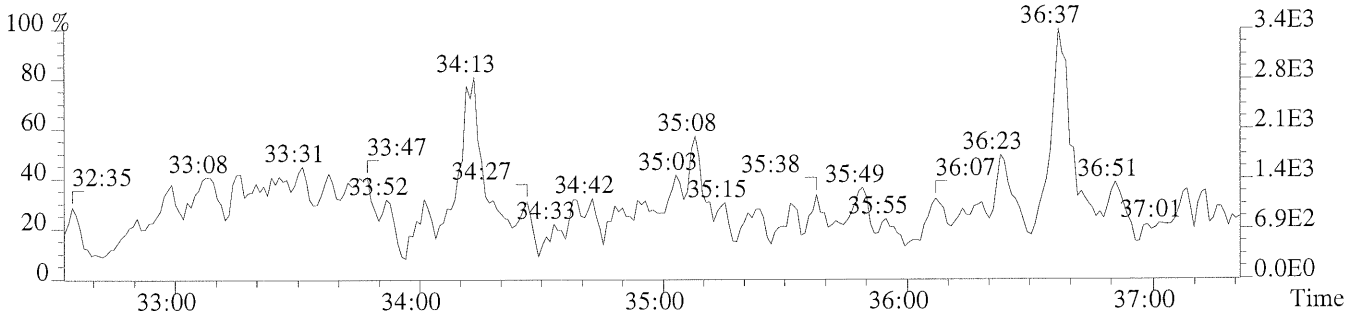
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4704.0,1.00%,F,T)



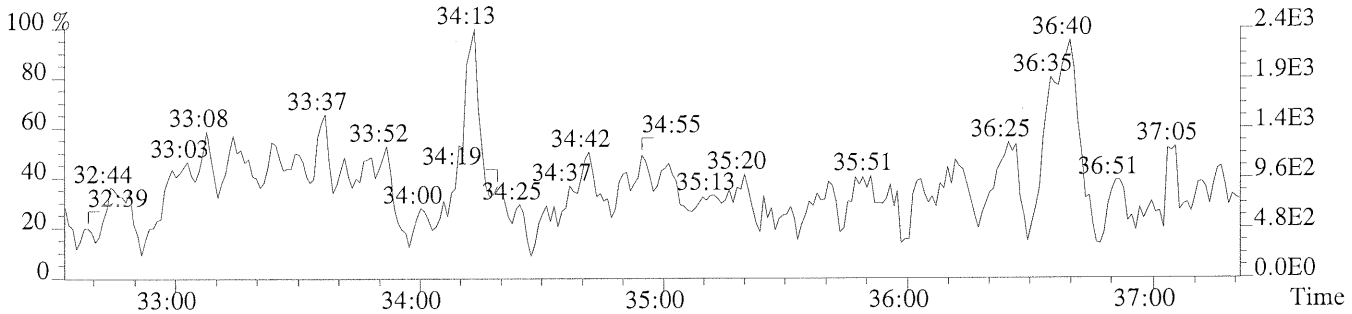
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



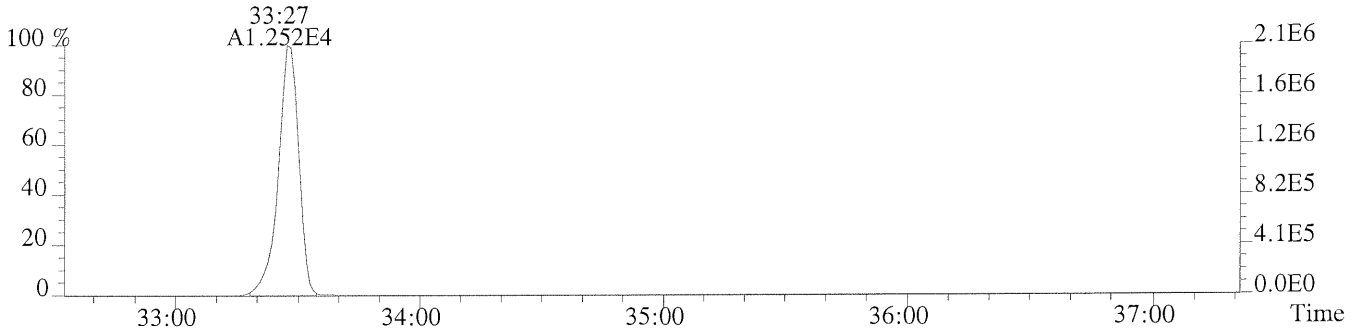
File:U142058 #1-308 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1196.0,1.00%,F,T)



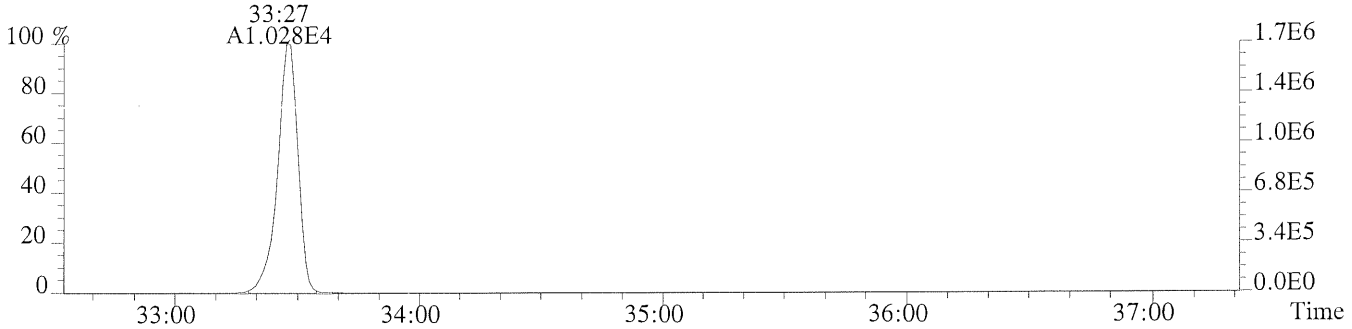
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1056.0,1.00%,F,T)



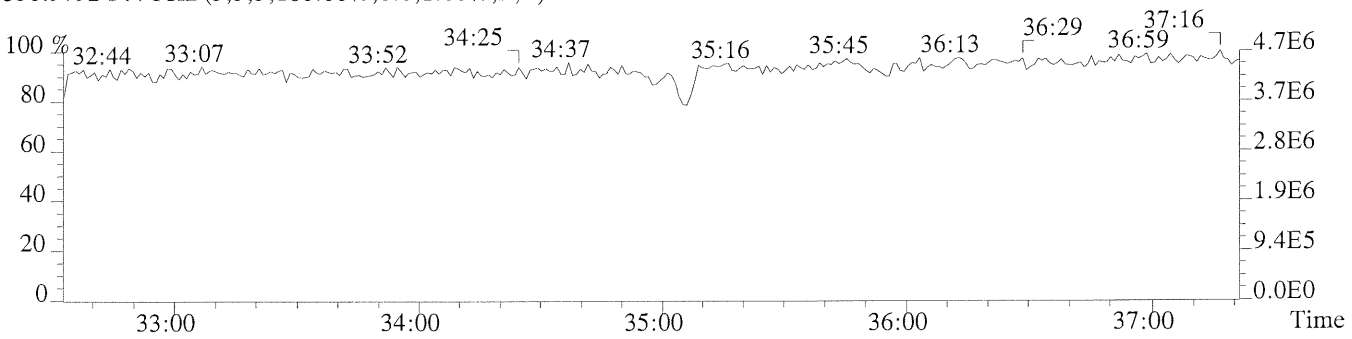
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,676.0,1.00%,F,T)

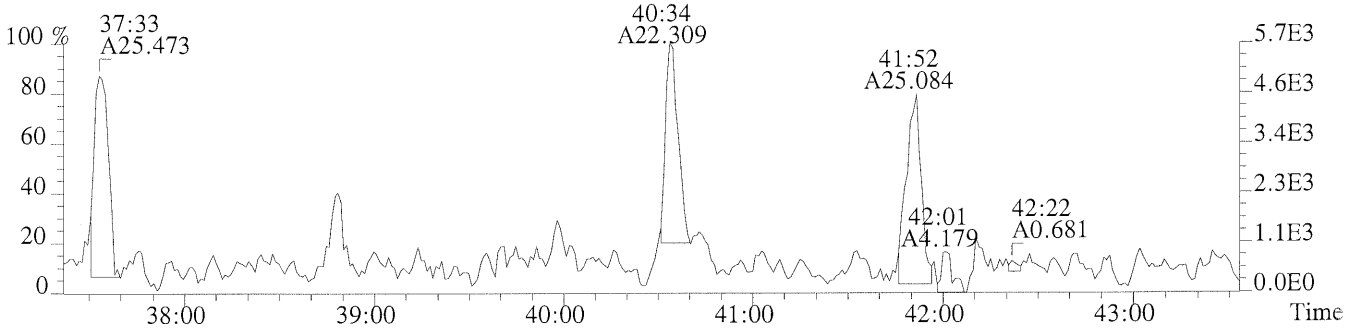


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

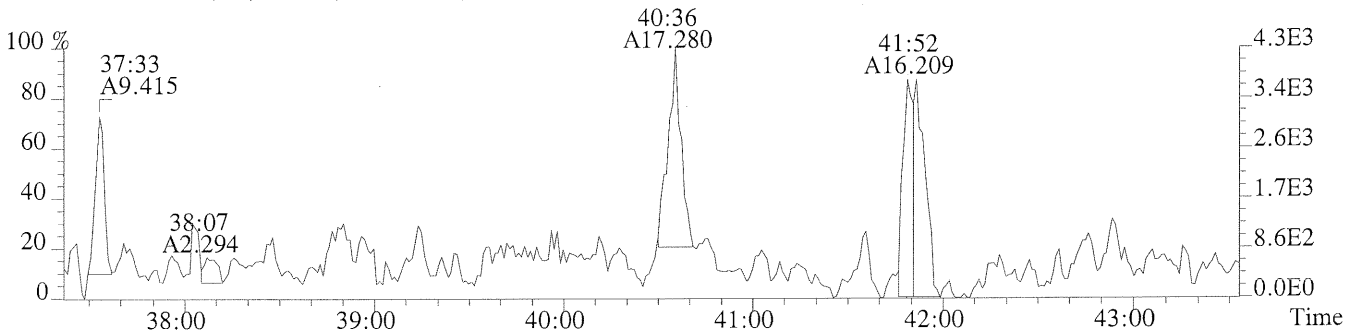


File:U142058 #1-396 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC

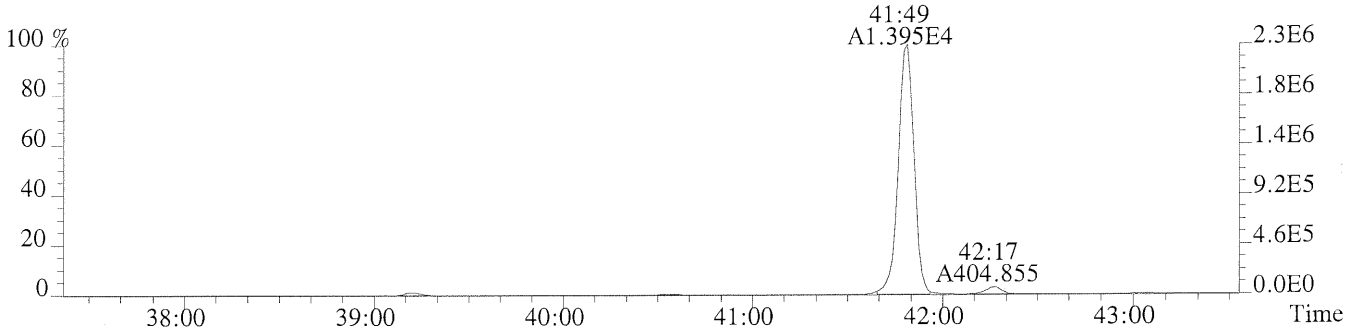
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



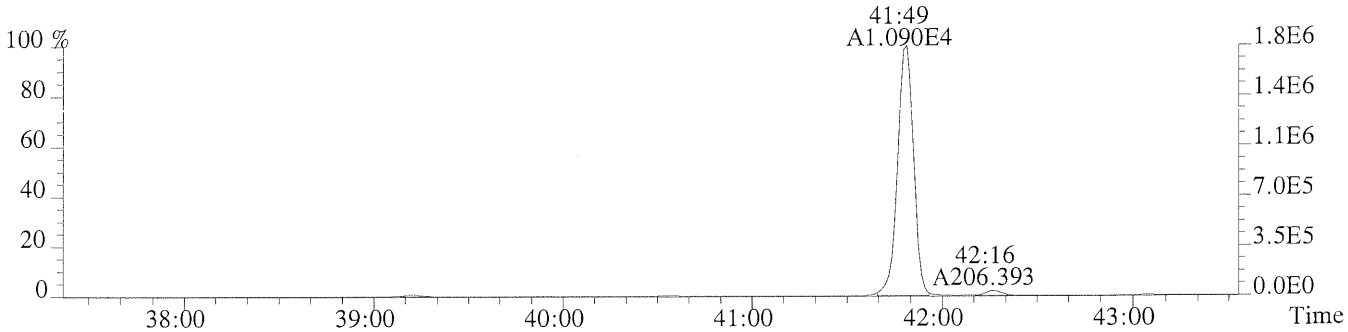
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,708.0,1.00%,F,T)



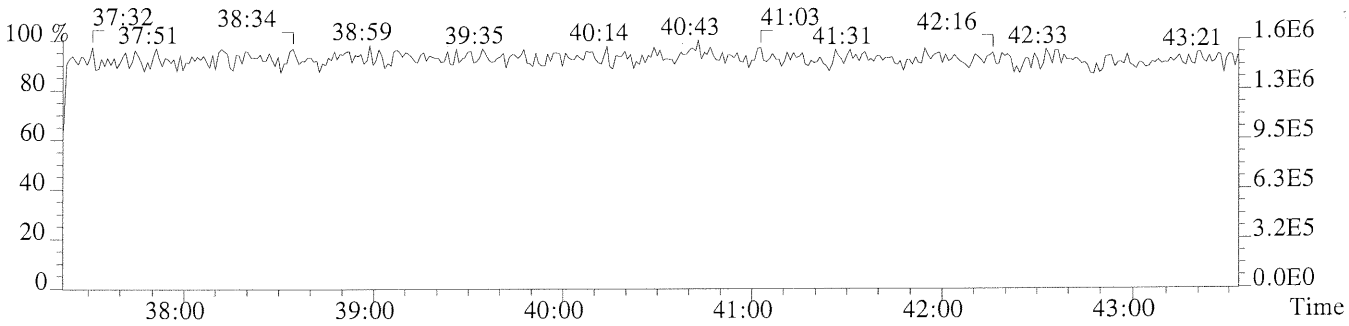
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



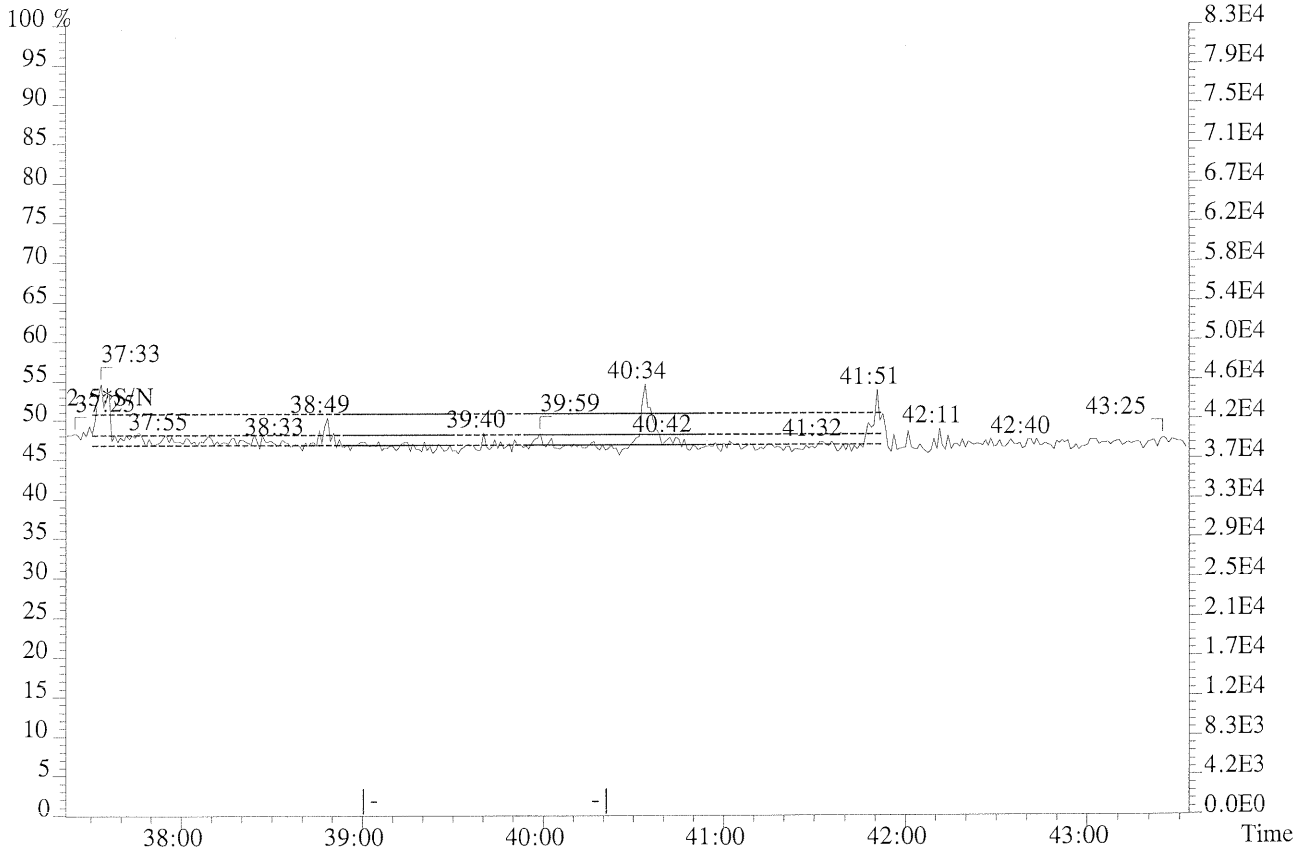
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



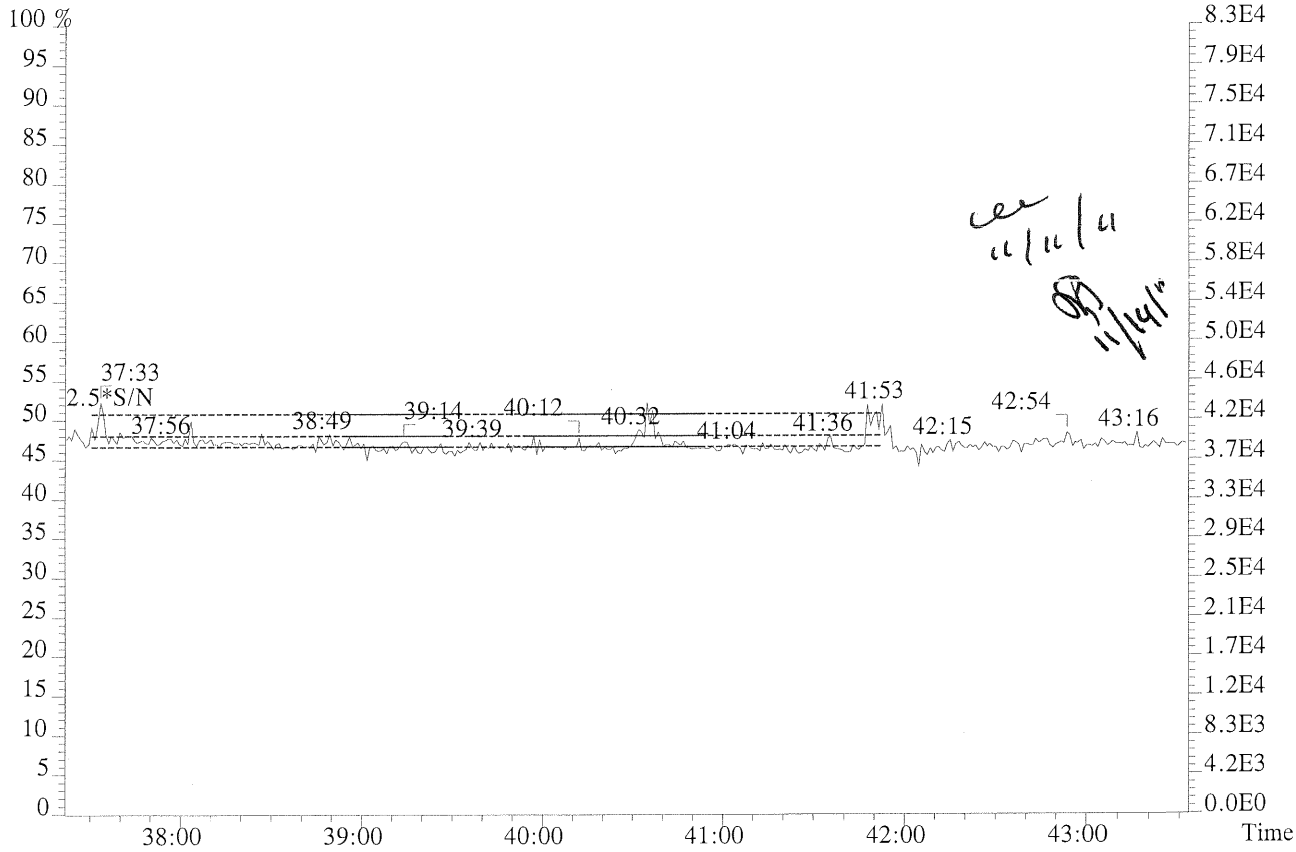
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142058 #1-396 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
359.8415 F:5



361.8385 F:5



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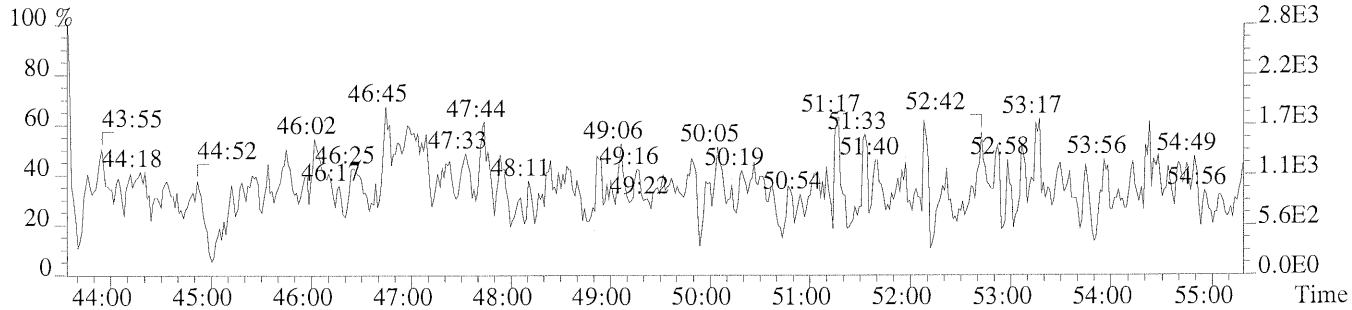
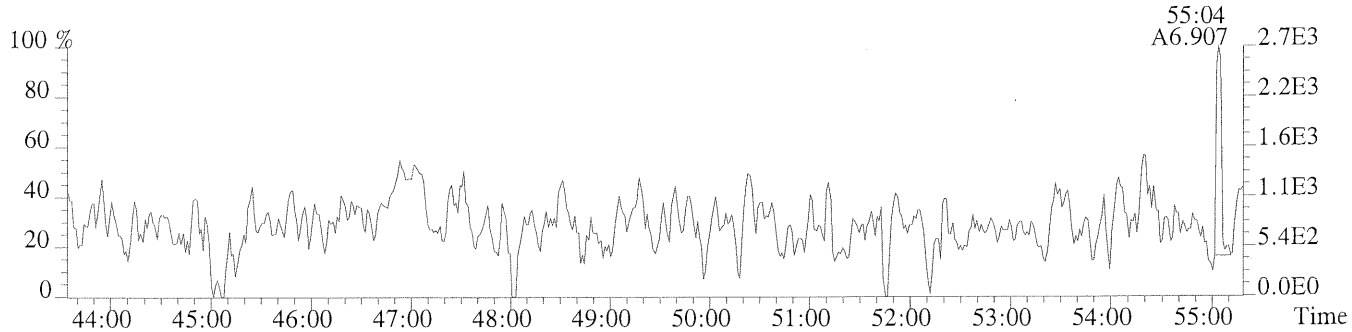
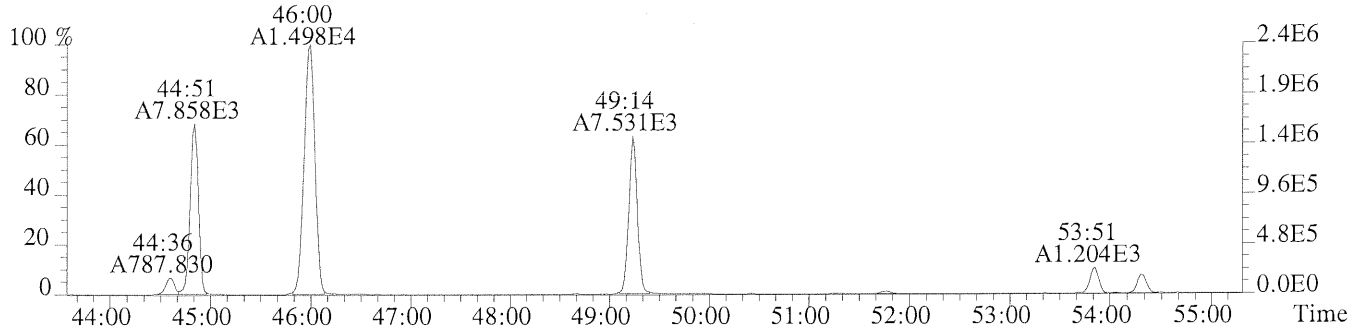
File:U142058 #1-582 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1232.0,1.00%,F,T)



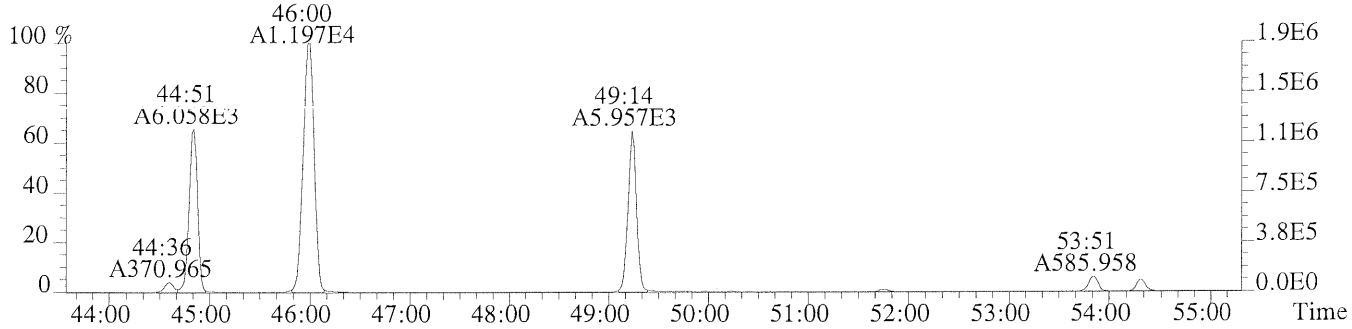
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,988.0,1.00%,F,T)



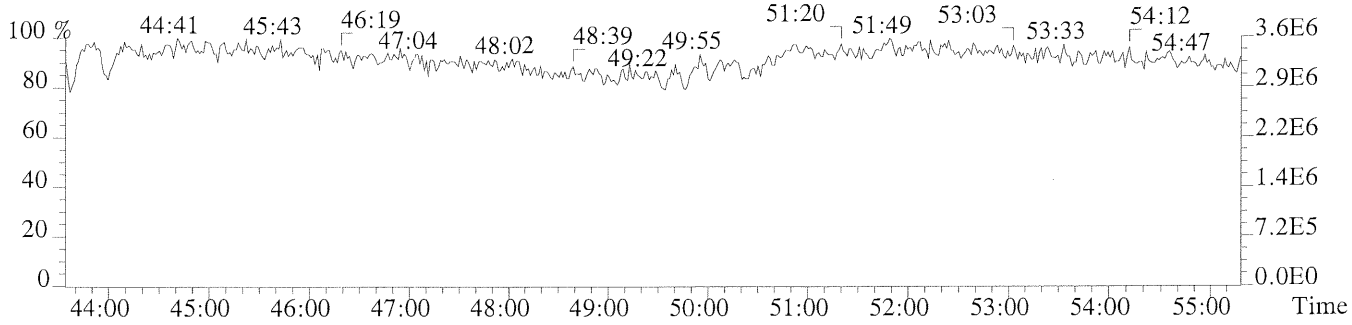
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3104.0,1.00%,F,T)



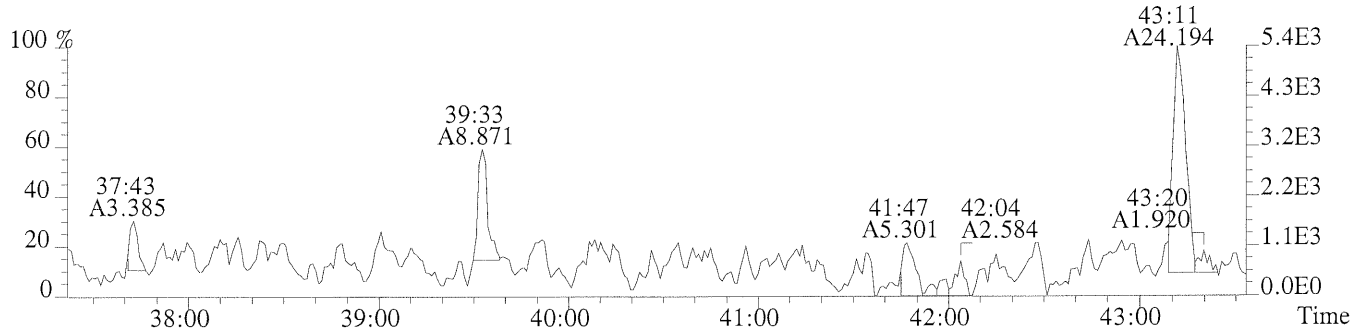
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)



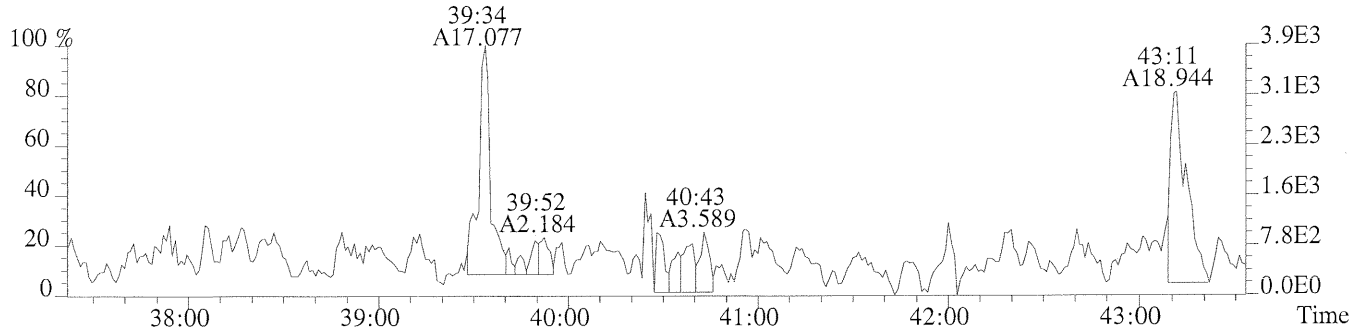
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



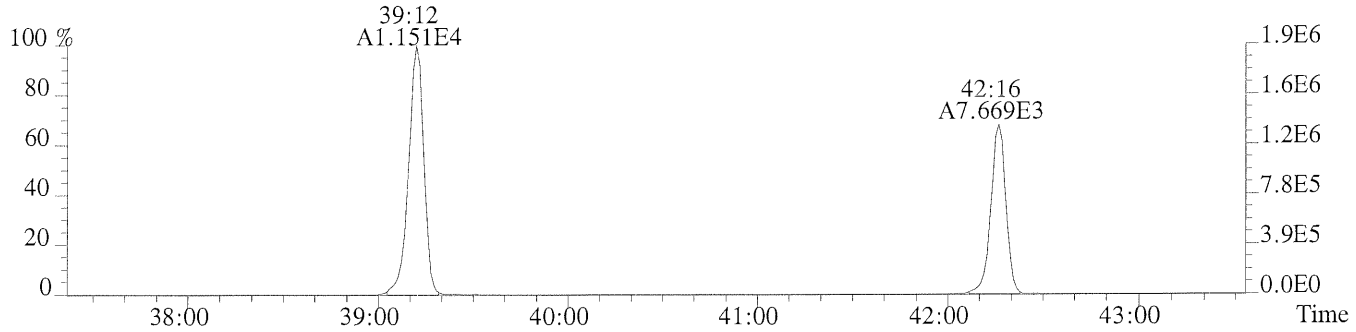
File:U142058 #1-396 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,848.0,1.00%,F,T)



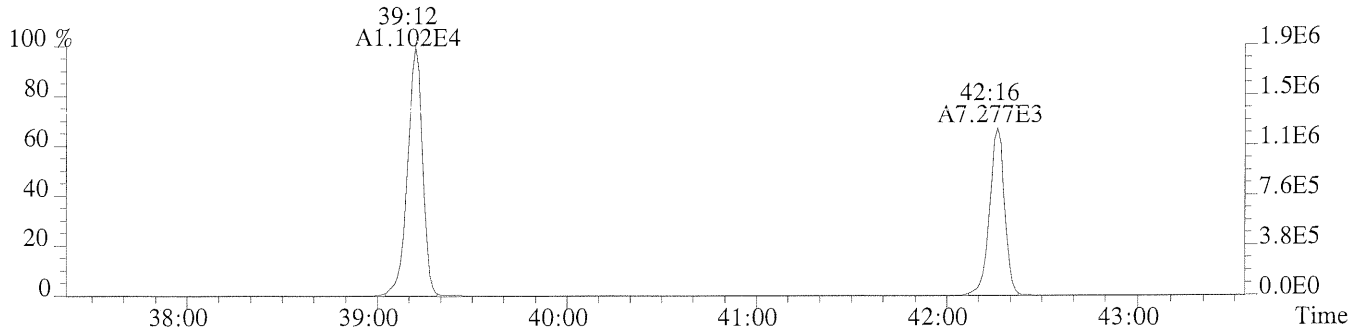
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,720.0,1.00%,F,T)



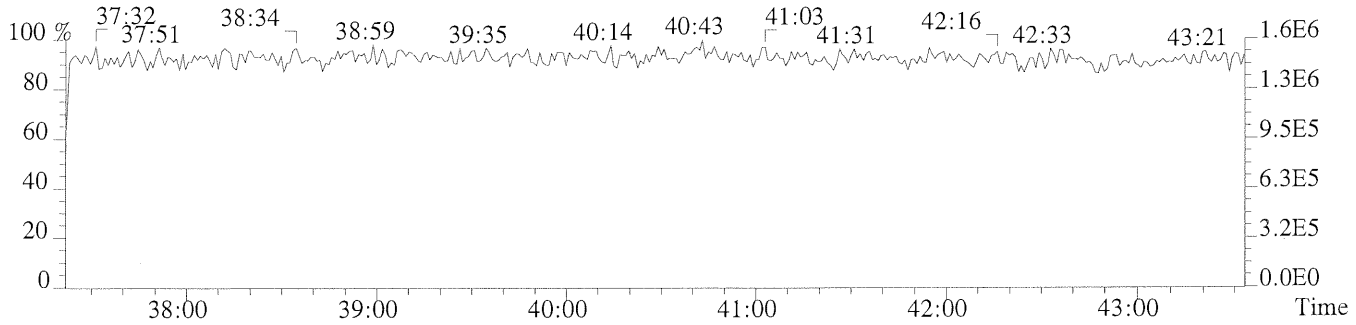
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1380.0,1.00%,F,T)



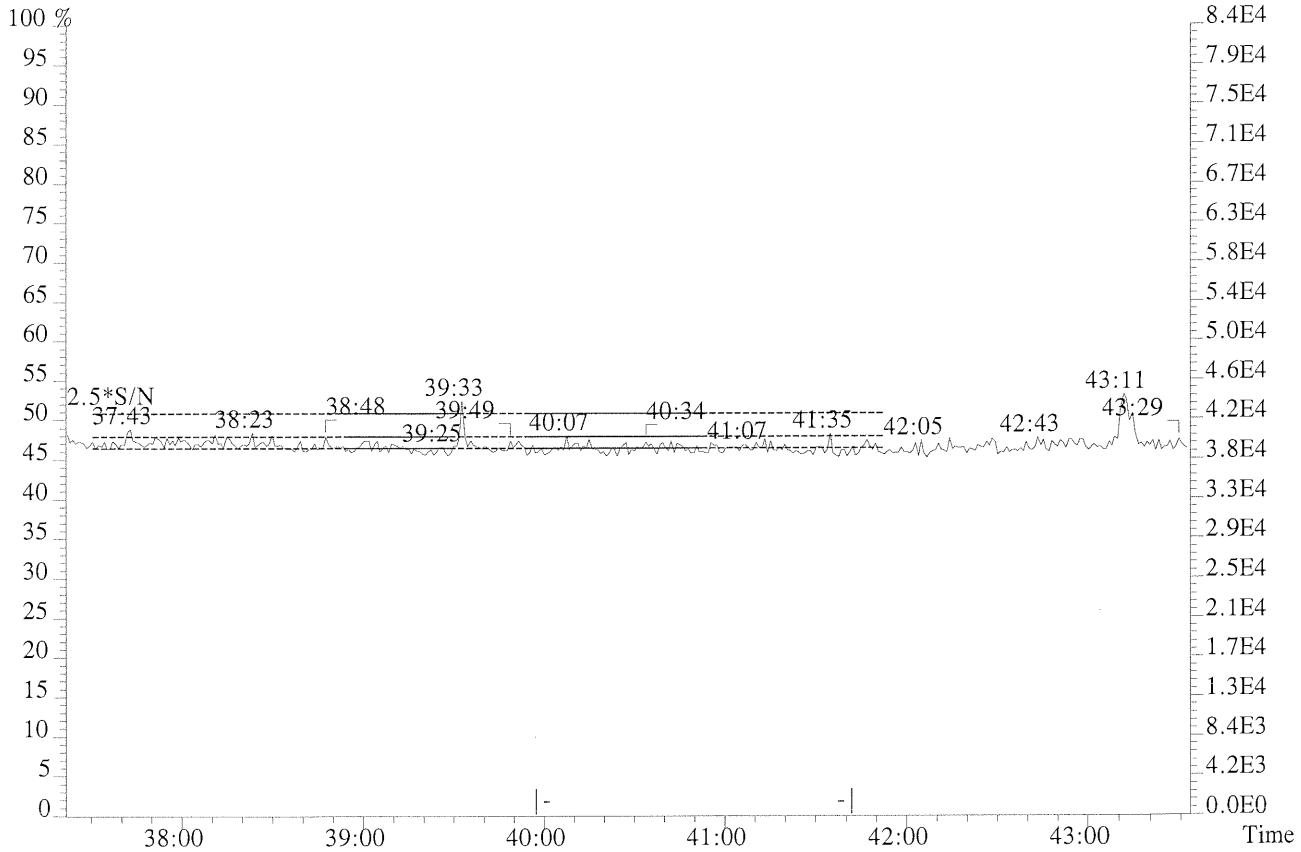
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,636.0,1.00%,F,T)



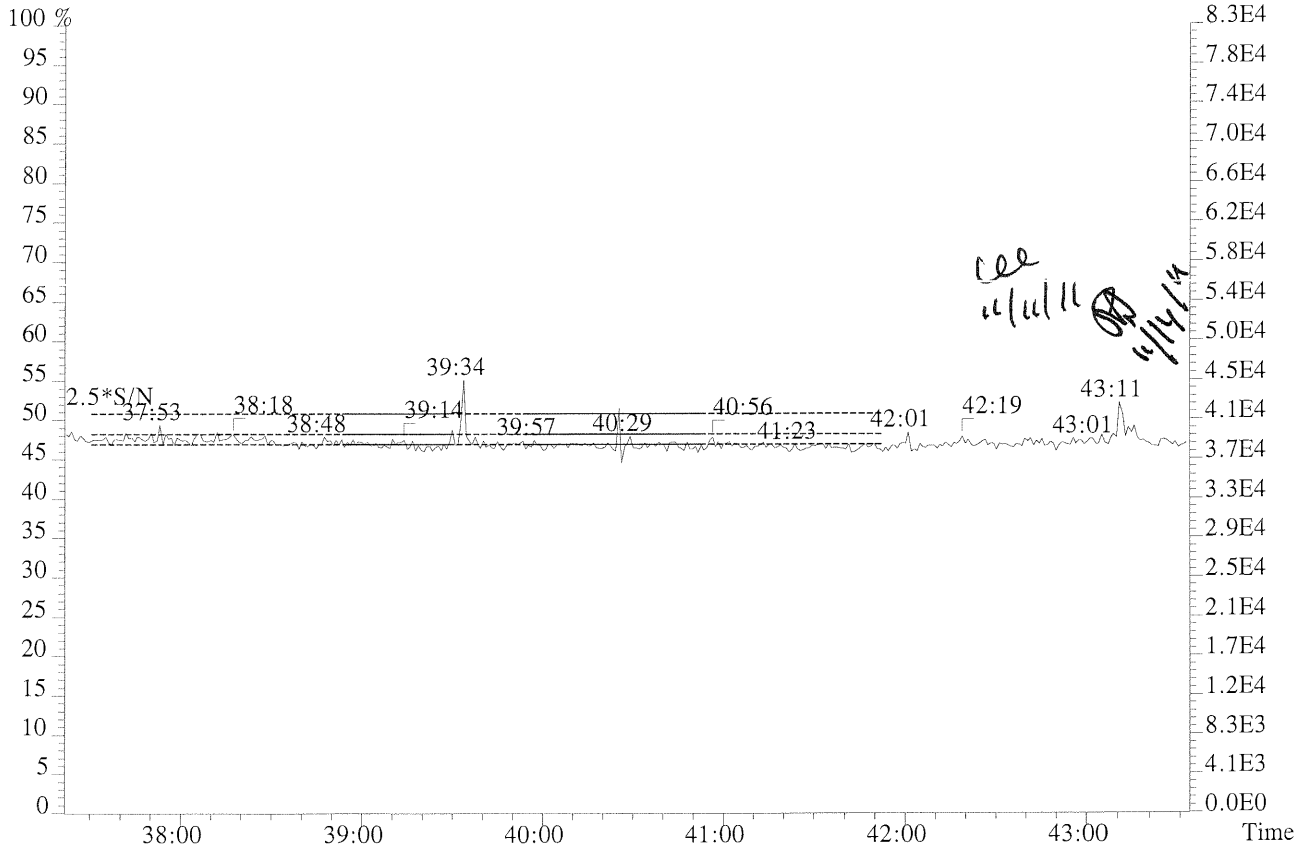
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142058 #1-396 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
393.8025 F:5



395.7995 F:5



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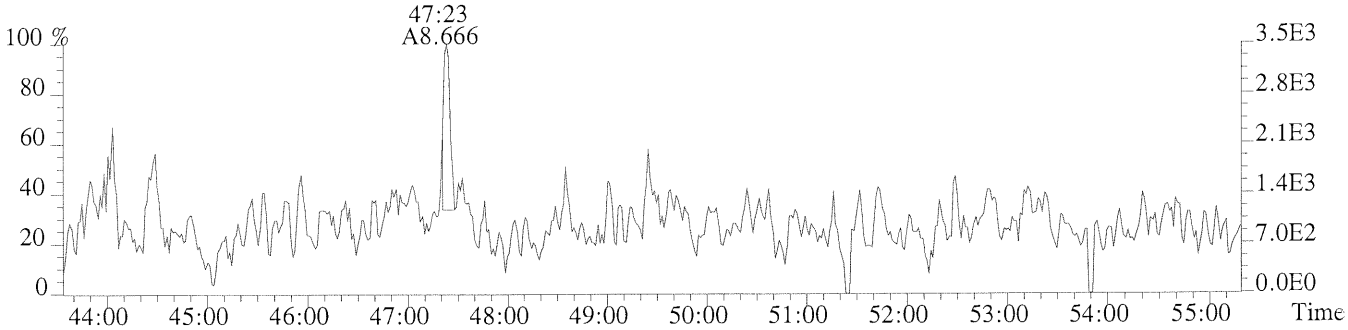
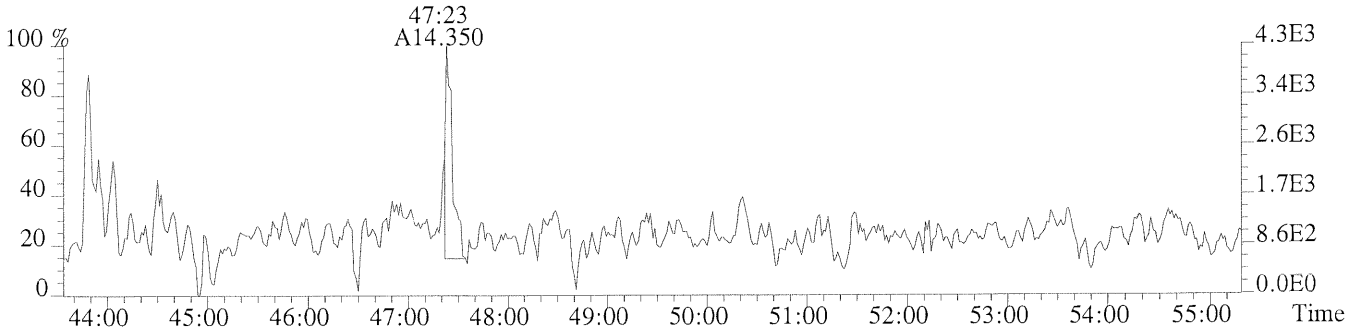
File:U142058 #1-582 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC

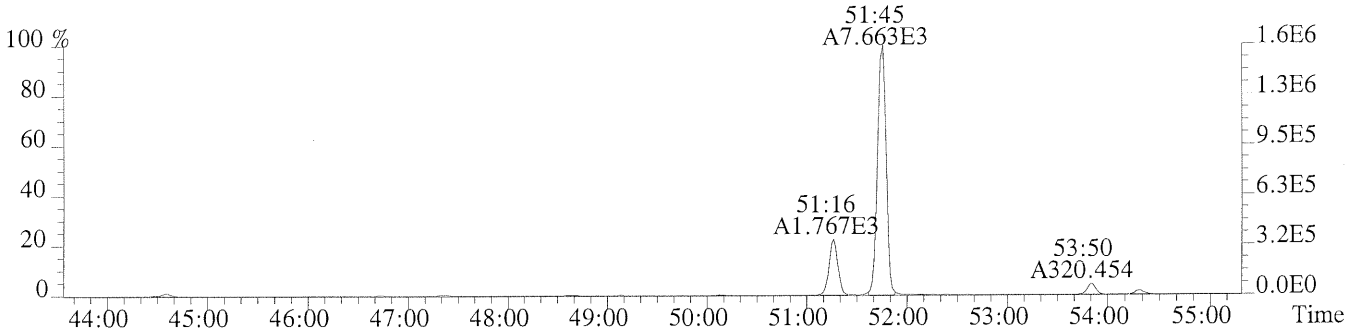
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



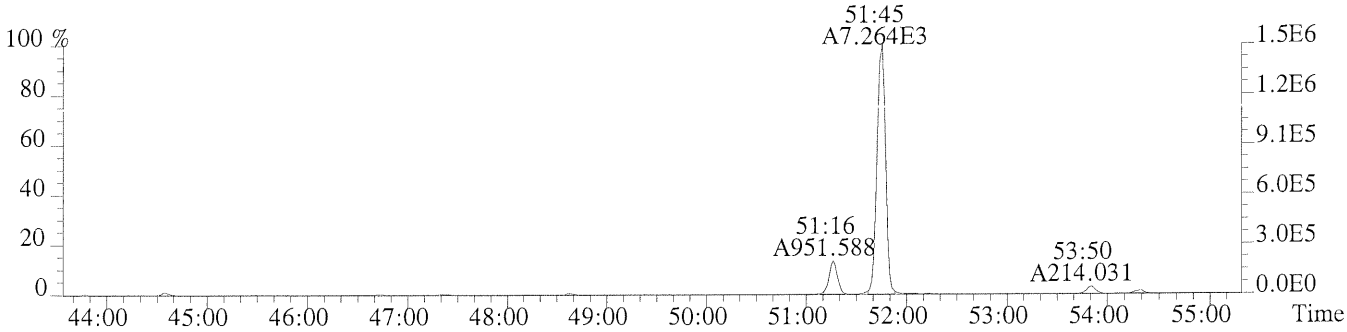
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1308.0,1.00%,F,T)



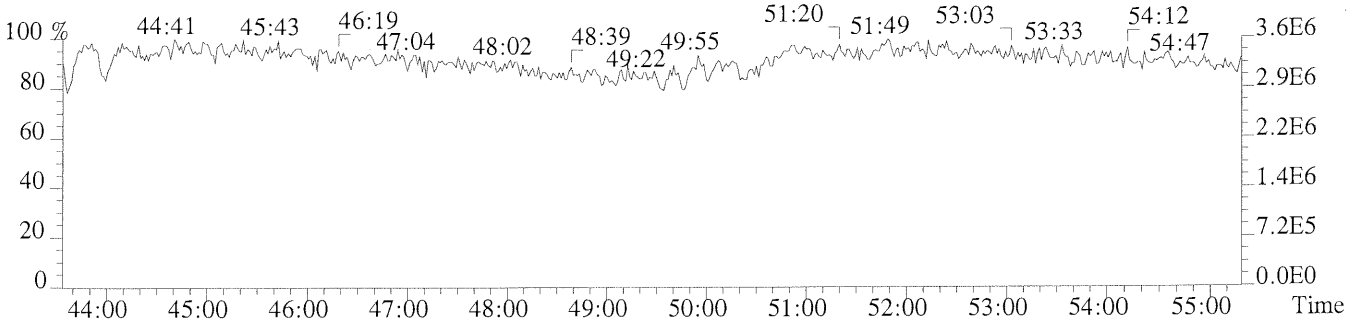
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1272.0,1.00%,F,T)



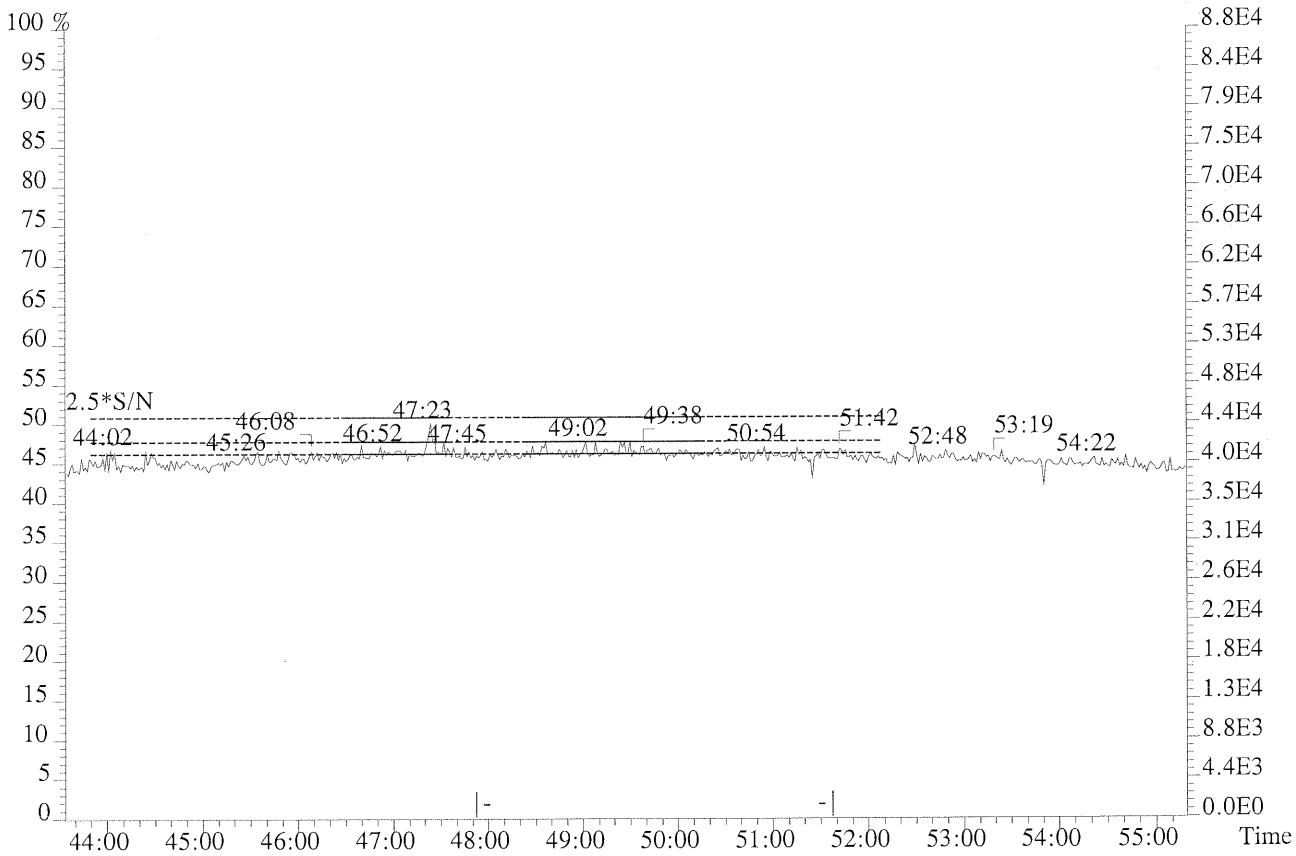
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,928.0,1.00%,F,T)



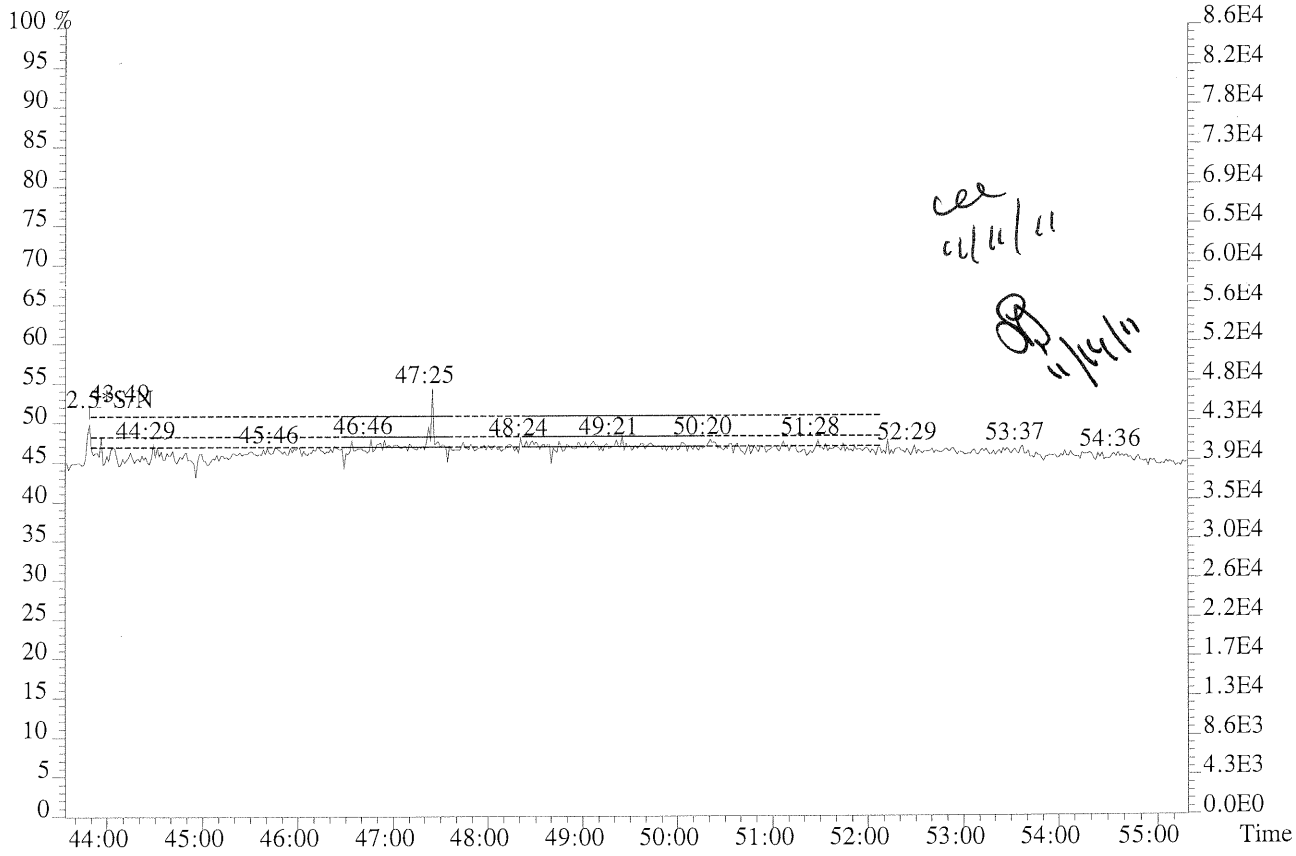
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142058 #1-582 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
393.8025 F:6



395.7995 F:6



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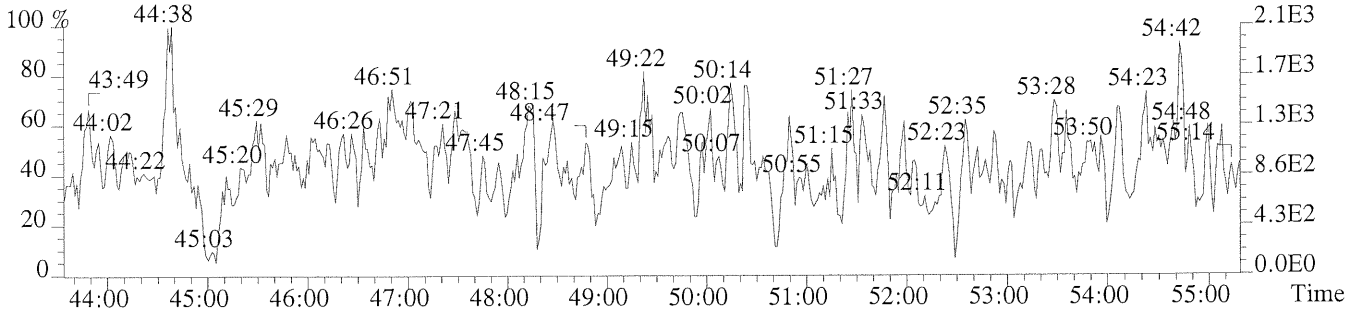
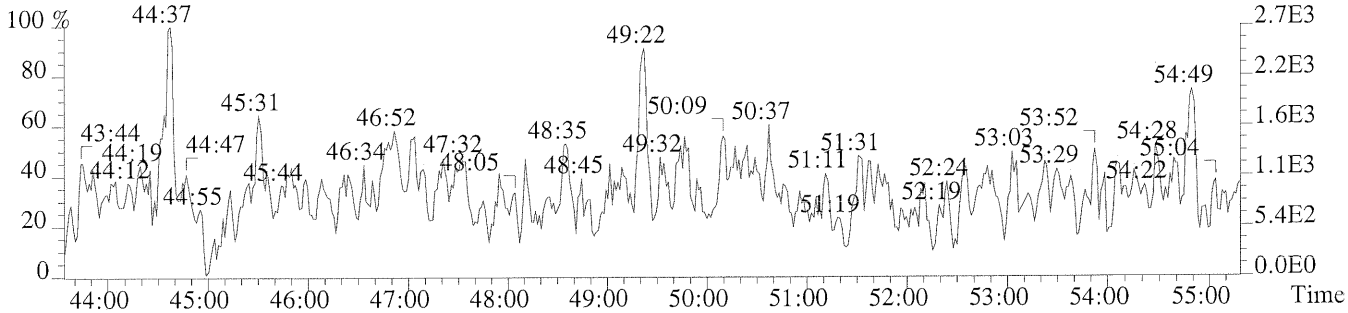
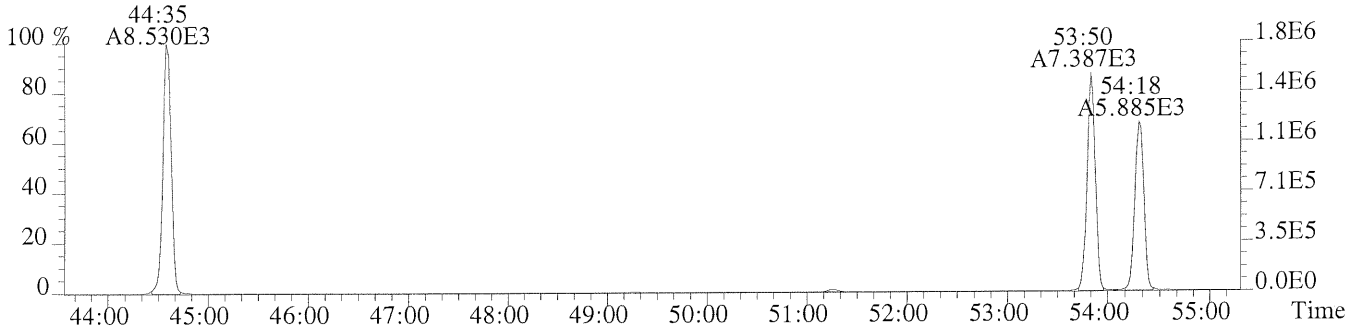
File:U142058 #1-582 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)



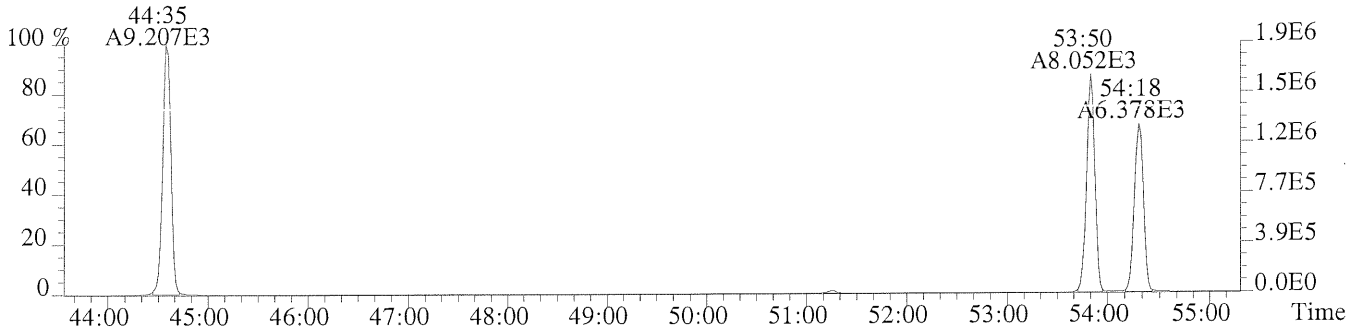
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1124.0,1.00%,F,T)



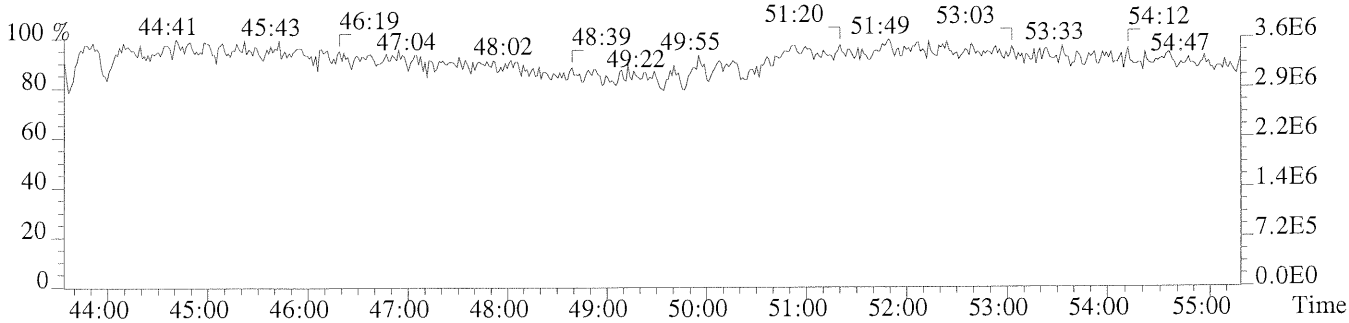
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1240.0,1.00%,F,T)



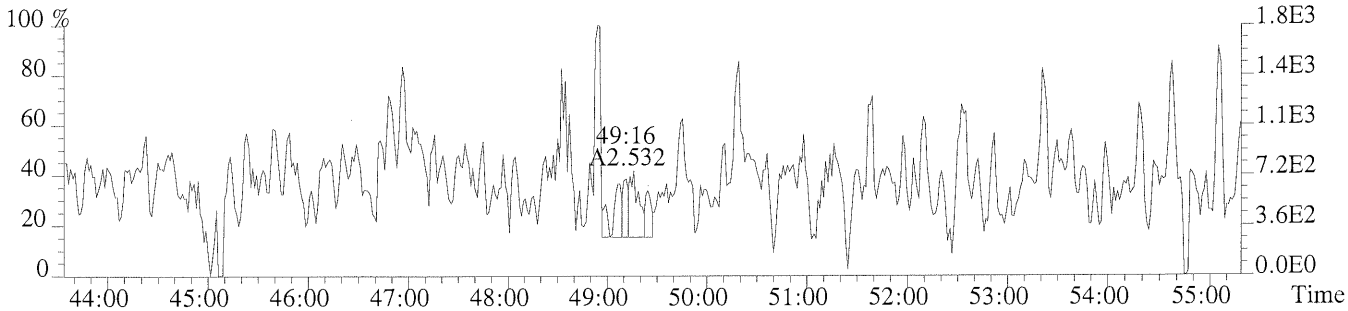
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1308.0,1.00%,F,T)



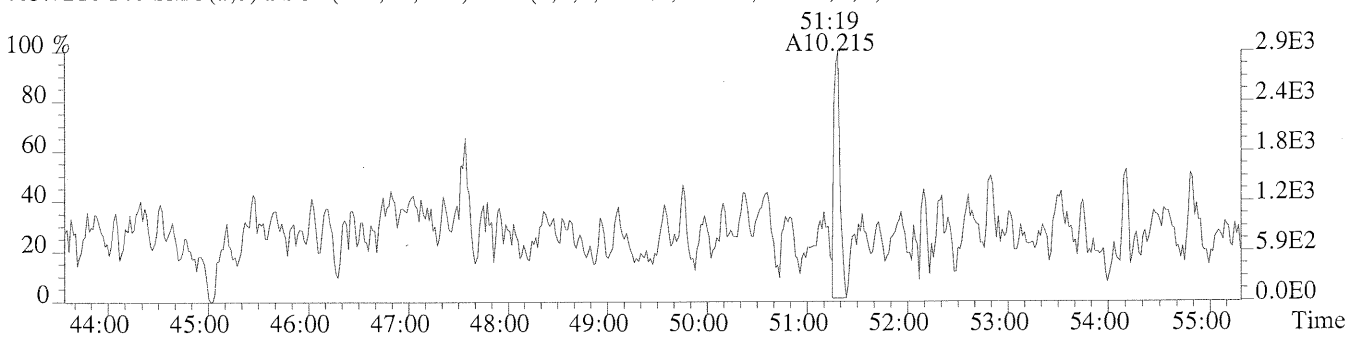
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



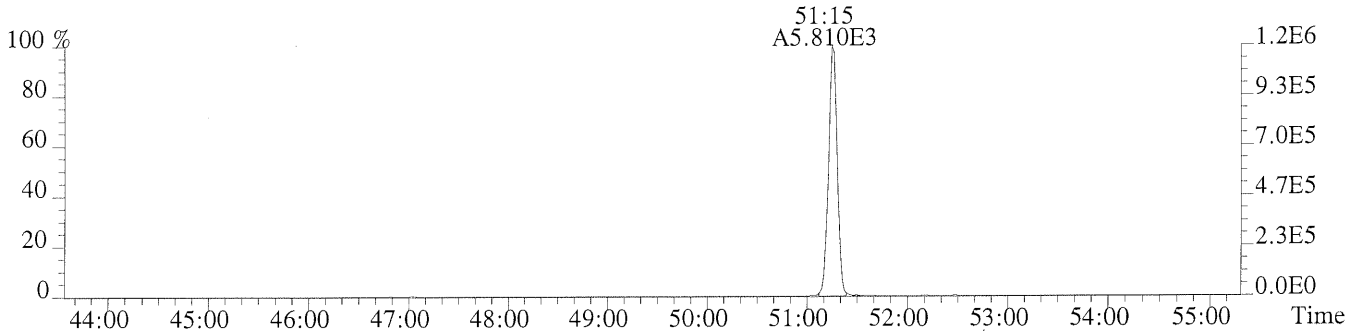
File:U142058 #1-582 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



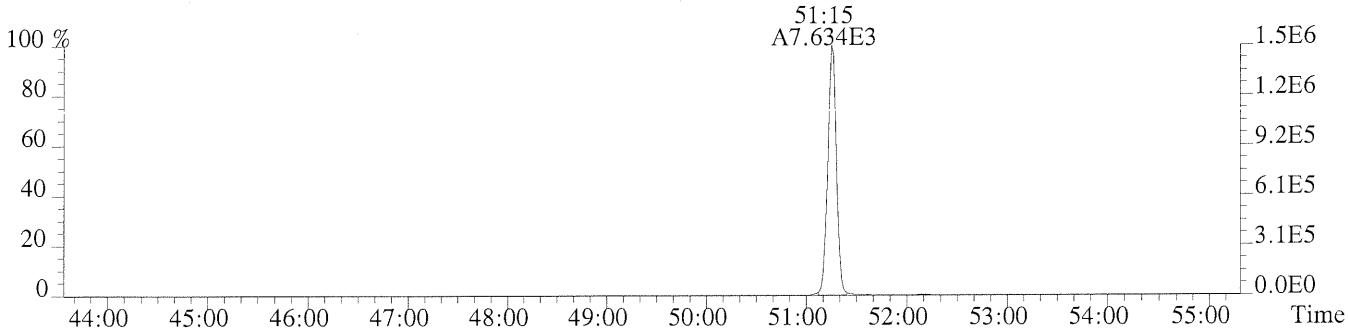
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



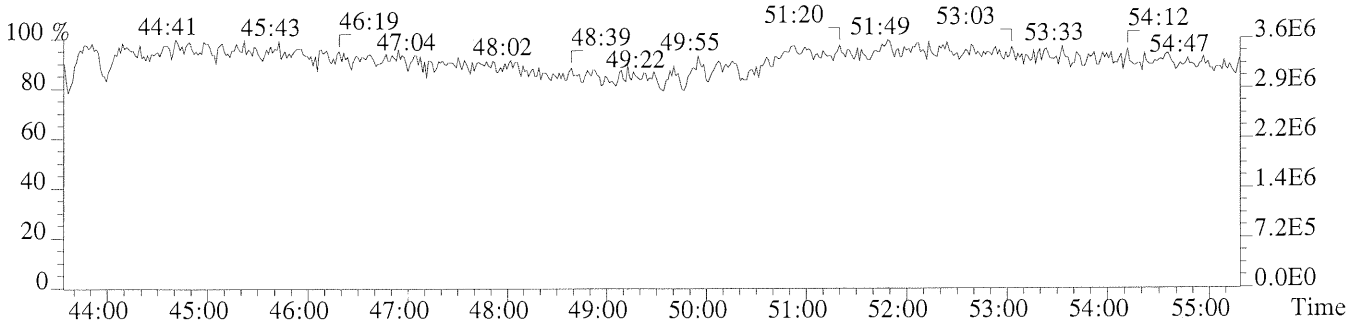
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)

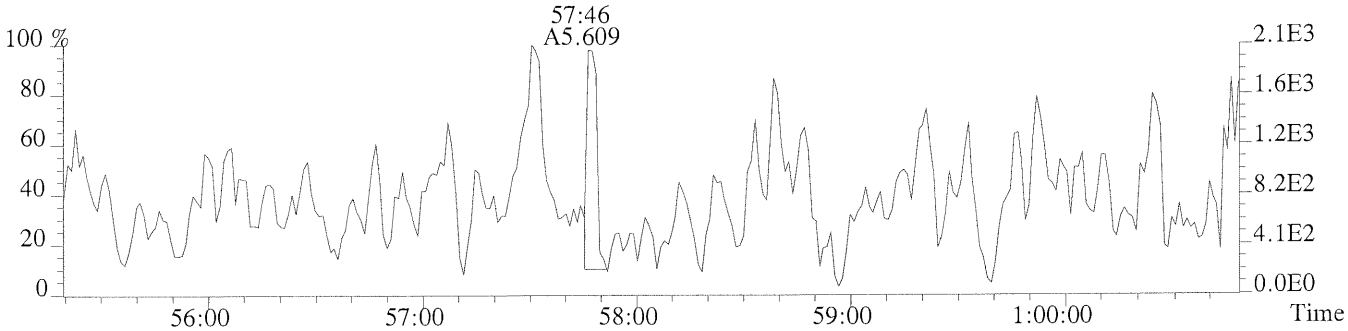


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

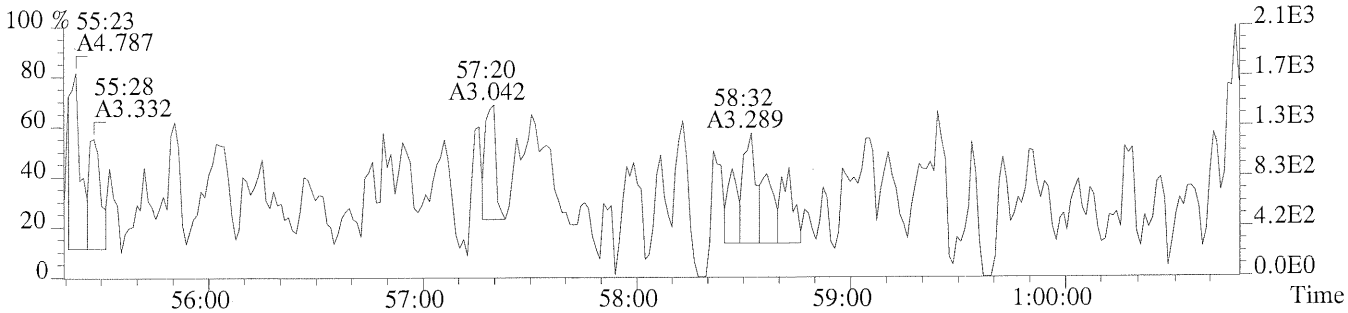


File:U142058 #1-310 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC

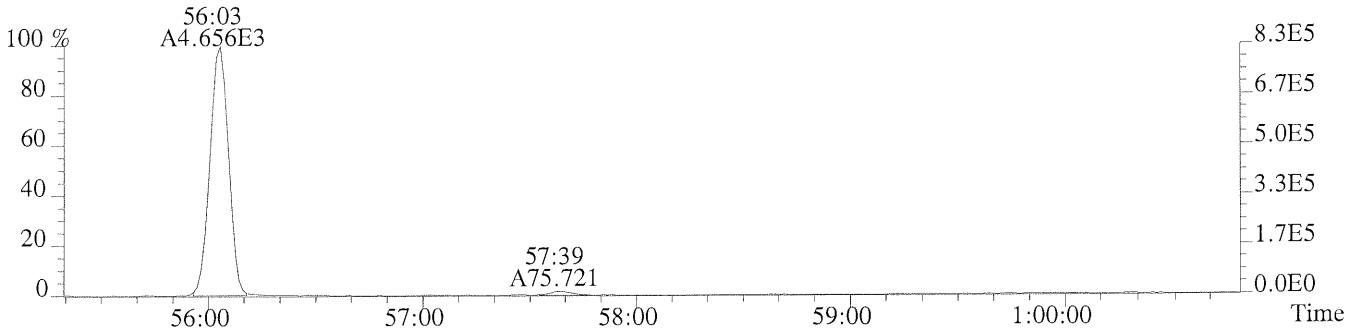
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)



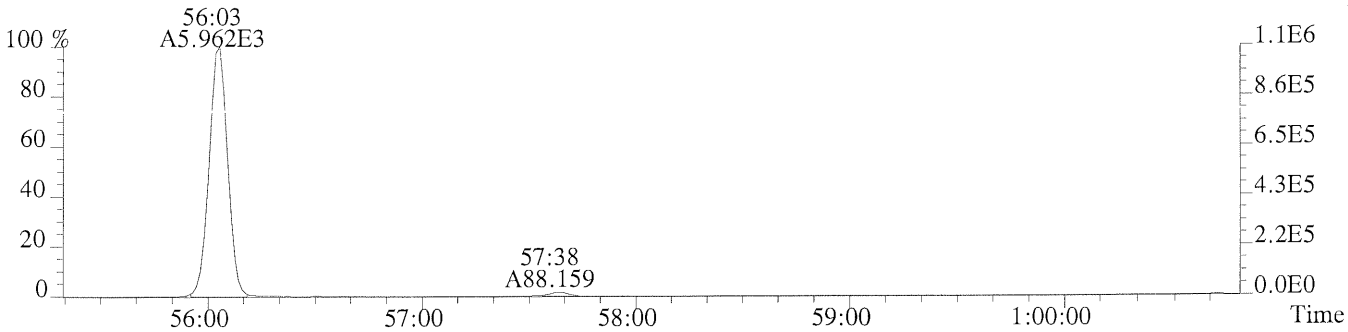
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,840.0,1.00%,F,T)



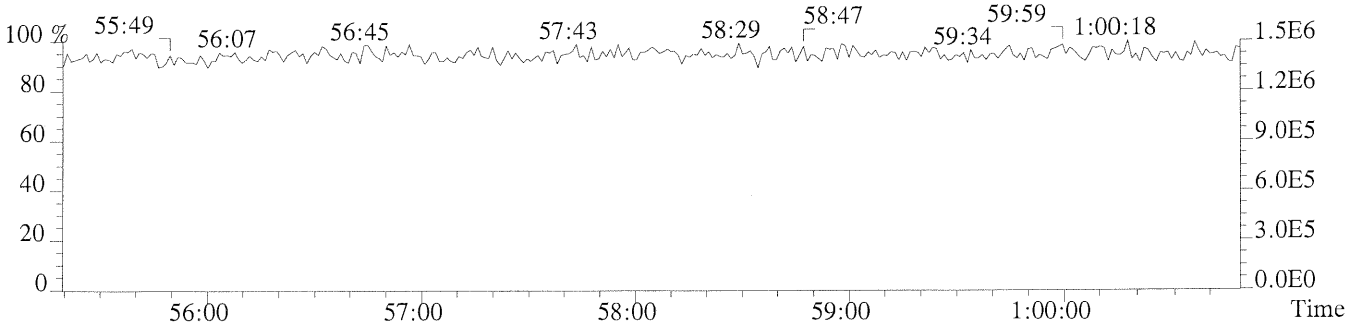
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1252.0,1.00%,F,T)



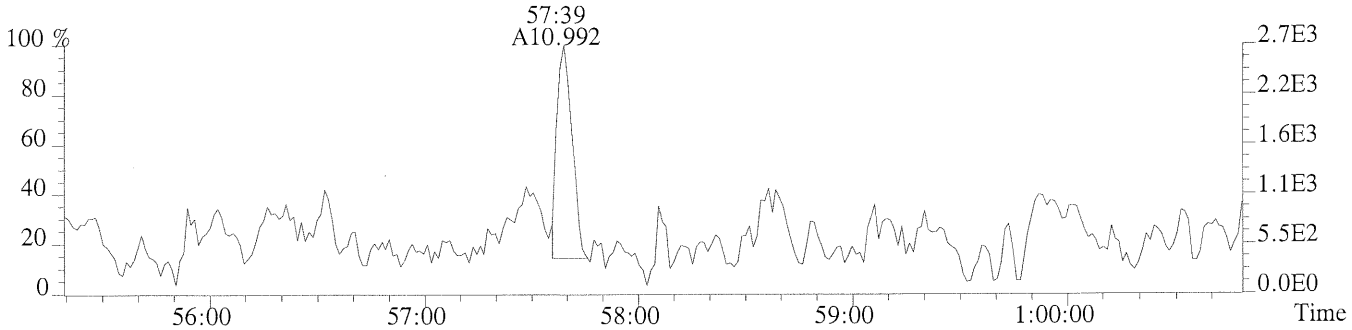
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



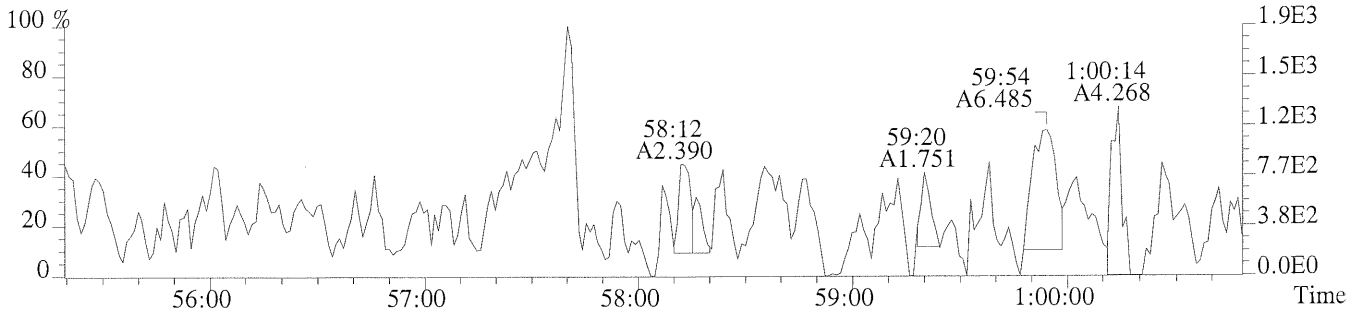
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



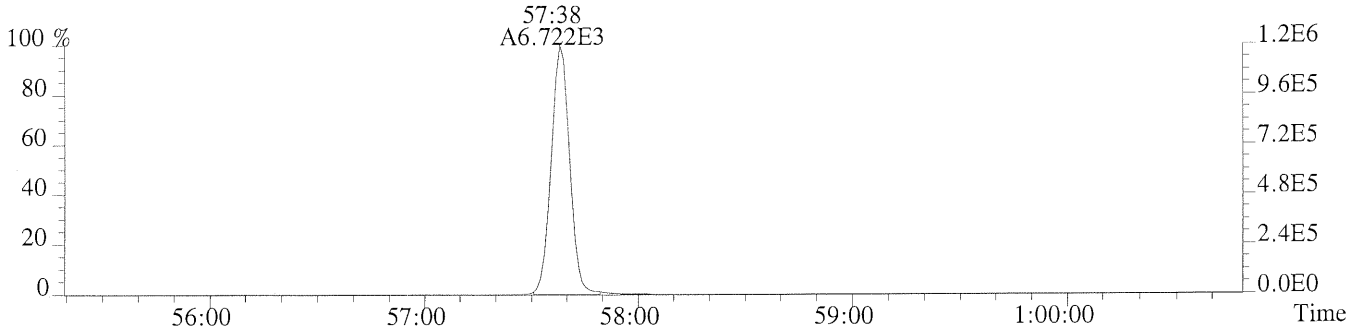
File:U142058 #1-310 Acq: 7-NOV-2011 12:56:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-002 B4CS-SS2-PC
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)



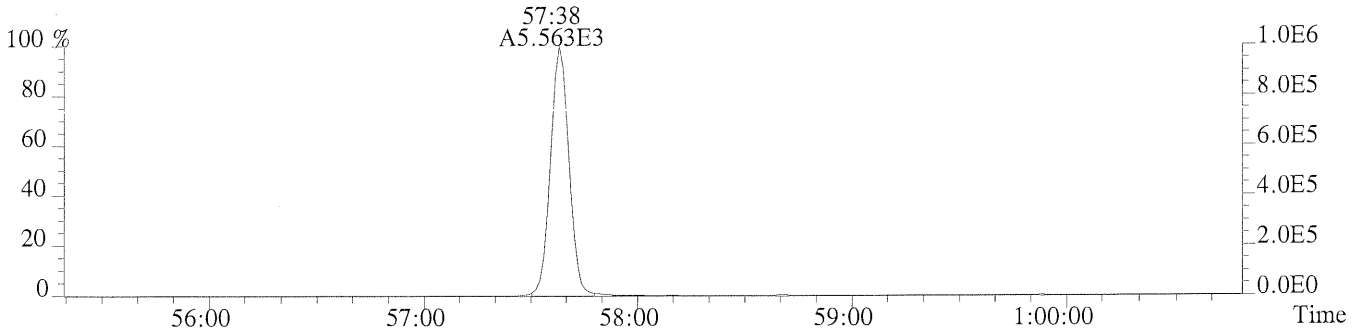
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,512.0,1.00%,F,T)



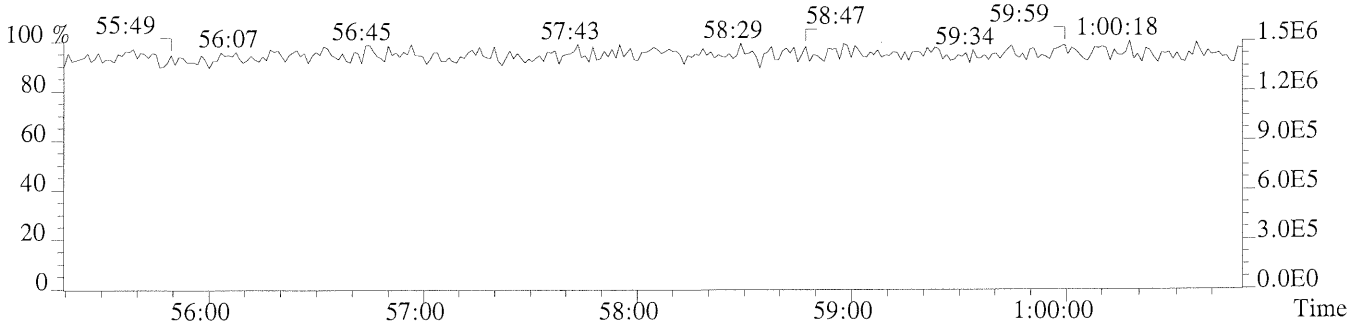
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,760.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4-SSBlank-PC

Run #13 Filename U142059 Samp: 1 Inj: 1 Acquired: 7-NOV-11 14:04:53
Processed: 11-NOV-11 13:23:20 Sample ID: E1101017-003

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	n	1.071
2	1	PCB-2	NotFnd	*	*	*	n	n	0.974
3	1	PCB-3	NotFnd	*	*	*	n	y	1.036
4	1	PCB-4	NotFnd	*	*	*	n	y	1.114
5	1	PCB-10	NotFnd	*	*	*	n	y	1.684
6	2	PCB-9	NotFnd	*	*	*	n	y	1.024
7	2	PCB-7	NotFnd	*	*	*	n	y	1.112
8	2	PCB-6	NotFnd	*	*	*	n	y	1.042
9	2	PCB-5	NotFnd	*	*	*	n	y	1.026
10	2	PCB-8	NotFnd	*	*	*	n	y	1.057
11	2	PCB-14	NotFnd	*	*	*	n	y	1.053
12	2	PCB-11	NotFnd	*	*	*	n	y	1.067
13	2	PCB-12/13	NotFnd	*	*	*	n	y	1.058
14	2	PCB-15	NotFnd	*	*	*	n	y	0.977
15	2	PCB-19	NotFnd	*	*	*	n	n	1.001
16	2	PCB-18/30	NotFnd	*	*	*	n	n	1.225
17	2	PCB-17	NotFnd	*	*	*	n	n	1.056
18	2	PCB-27	NotFnd	*	*	*	n	n	1.362
19	2	PCB-24	NotFnd	*	*	*	n	n	1.508
20	2	PCB-16	NotFnd	*	*	*	n	n	0.805
21	2	PCB-32	NotFnd	*	*	*	n	n	1.461
22	3	PCB-34	NotFnd	*	*	*	n	n	1.294
23	3	PCB-23	NotFnd	*	*	*	n	n	1.399
24	3	PCB-26/29	NotFnd	*	*	*	n	n	1.314
25	3	PCB-25	NotFnd	*	*	*	n	n	1.440
26	3	PCB-31	NotFnd	*	*	*	n	n	1.297
27	3	PCB-20/28	NotFnd	*	*	*	n	n	1.532
28	3	PCB-21/33	NotFnd	*	*	*	n	n	1.273
29	3	PCB-22	NotFnd	*	*	*	n	n	1.253
30	3	PCB-36	NotFnd	*	*	*	n	n	1.253
31	3	PCB-39	NotFnd	*	*	*	n	n	1.405
32	3	PCB-38	NotFnd	*	*	*	n	n	1.176
33	3	PCB-35	NotFnd	*	*	*	n	n	1.139
34	3	PCB-37	NotFnd	*	*	*	n	n	1.089
35	2	PCB-54	NotFnd	*	*	*	n	n	1.002
36	3	PCB-50/53	NotFnd	*	*	*	n	n	1.115
37	3	PCB-45/51	NotFnd	*	*	*	n	n	1.076
38	3	PCB-46	NotFnd	*	*	*	n	n	0.925
39	3	PCB-52	26:50	6.772e+01	8.014e+01	0.85	y	y	1.113
40	3	PCB-43/73	NotFnd	*	*	*	n	n	1.220
41	3	PCB-49/69	27:19	2.673e+01	3.383e+01	0.79	y	y	1.245
42	3	PCB-48	NotFnd	*	*	*	n	n	1.133
43	3	PCB-44/47/65	27:53	8.474e+01	9.256e+01	0.92	n	n	1.215
44	3	PCB-59/62/75	NotFnd	*	*	*	n	n	1.422
45	3	PCB-42	NotFnd	*	*	*	n	n	1.006
46	3	PCB-40/41/71	NotFnd	*	*	*	n	n	1.094
47	3	PCB-64	NotFnd	*	*	*	n	n	1.461
48	3	PCB-72	NotFnd	*	*	*	n	n	1.445
49	3	PCB-68	NotFnd	*	*	*	n	n	1.597
50	3	PCB-57	NotFnd	*	*	*	n	n	1.356

51	3	PCB-58	NotFnd	*	*	*	n	n	1.450
52	3	PCB-67	NotFnd	*	*	*	n	n	1.451
53	3	PCB-63	NotFnd	*	*	*	n	n	1.359
54	3	PCB-61/70/74/76	31:38	3.805e+01	4.754e+01	0.80	y	y	1.453
55	3	PCB-66	NotFnd	*	*	*	n	n	1.394
56	3	PCB-55	NotFnd	*	*	*	n	n	1.369
57	4	PCB-56	NotFnd	*	*	*	n	n	1.184
58	4	PCB-60	NotFnd	*	*	*	n	n	1.143
59	4	PCB-80	NotFnd	*	*	*	n	n	1.209
60	4	PCB-79	NotFnd	*	*	*	n	n	1.178
61	4	PCB-78	NotFnd	*	*	*	n	n	1.021
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	NotFnd	*	*	*	n	n	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	NotFnd	*	*	*	n	n	1.399
66	3	PCB-103	NotFnd	*	*	*	n	n	1.189
67	3	PCB-94	NotFnd	*	*	*	n	n	1.050
68	3	PCB-95	NotFnd	*	*	*	n	y	1.067
69	3	PCB-93/100	NotFnd	*	*	*	n	n	1.096
70	3	PCB-98/102	NotFnd	*	*	*	n	n	1.134
71	3	PCB-88/91	NotFnd	*	*	*	n	n	1.053
72	3	PCB-84	NotFnd	*	*	*	n	n	0.925
73	3	PCB-89	NotFnd	*	*	*	n	n	0.892
74	4	PCB-121	NotFnd	*	*	*	n	n	1.376
75	4	PCB-92	NotFnd	*	*	*	n	n	0.954
76	4	PCB-90/101/113	33:44	4.213e+01	1.859e+01	2.27	n	y	1.094
77	4	PCB-83/99	NotFnd	*	*	*	n	n	1.003
78	4	PCB-112	NotFnd	*	*	*	n	n	1.262
79	4	PCB-86/87/97/109/119/125	NotFnd	*	*	*	n	n	1.125
80	4	PCB-117	NotFnd	*	*	*	n	n	1.284
81	4	PCB-85/116	NotFnd	*	*	*	n	n	1.123
82	4	PCB-110/115	35:43	2.467e+01	1.724e+01	1.43	y	n	1.328
83	4	PCB-82	NotFnd	*	*	*	n	n	0.807
84	4	PCB-111	NotFnd	*	*	*	n	n	1.347
85	4	PCB-120	NotFnd	*	*	*	n	n	1.281
86	5	PCB-108/124	NotFnd	*	*	*	n	n	0.897
87	5	PCB-107	NotFnd	*	*	*	n	n	1.024
88	5	PCB-123	NotFnd	*	*	*	n	n	1.018
89	5	PCB-106	NotFnd	*	*	*	n	n	0.906
90	5	PCB-118	38:43	3.076e+01	1.442e+01	2.13	n	n	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	0.865
92	5	PCB-114	NotFnd	*	*	*	n	n	0.991
93	5	PCB-105	NotFnd	*	*	*	n	n	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	0.887
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.613
98	4	PCB-150	NotFnd	*	*	*	n	n	1.780
99	4	PCB-136	NotFnd	*	*	*	n	n	1.558
100	4	PCB-145	NotFnd	*	*	*	n	n	1.671
101	4	PCB-148	NotFnd	*	*	*	n	n	1.186
102	4	PCB-135/151	NotFnd	*	*	*	n	n	1.207
103	4	PCB-154	NotFnd	*	*	*	n	n	1.376
104	4	PCB-144	NotFnd	*	*	*	n	n	1.222
105	5	PCB-147/149	NotFnd	*	*	*	n	n	1.157
106	5	PCB-134	NotFnd	*	*	*	n	n	0.922
107	5	PCB-143	NotFnd	*	*	*	n	n	1.014

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.135
109	5	PCB-131	NotFnd	*	*	*	n	n	0.965
110	5	PCB-142	NotFnd	*	*	*	n	n	0.950
111	5	PCB-132	NotFnd	*	*	*	n	n	1.013
112	5	PCB-133	NotFnd	*	*	*	n	n	0.980
113	5	PCB-165	NotFnd	*	*	*	n	n	1.335
114	5	PCB-146	NotFnd	*	*	*	n	n	1.147
115	5	PCB-161	NotFnd	*	*	*	n	n	1.291
116	5	PCB-153/168	NotFnd	*	*	*	n	n	1.264
117	5	PCB-141	NotFnd	*	*	*	n	n	0.999
118	5	PCB-130	NotFnd	*	*	*	n	n	0.875
119	5	PCB-137	NotFnd	*	*	*	n	n	1.059
120	5	PCB-164	NotFnd	*	*	*	n	n	1.292
121	5	PCB-129/138/163	NotFnd	*	*	*	n	n	1.120
122	5	PCB-160	NotFnd	*	*	*	n	n	1.396
123	5	PCB-158	NotFnd	*	*	*	n	n	1.456
124	5	PCB-128/166	NotFnd	*	*	*	n	n	1.177
125	6	PCB-159	NotFnd	*	*	*	n	n	0.908
126	6	PCB-162	NotFnd	*	*	*	n	n	0.968
127	6	PCB-167	NotFnd	*	*	*	n	n	1.008
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	NotFnd	*	*	*	n	n	1.394
132	5	PCB-184	NotFnd	*	*	*	n	n	1.530
133	5	PCB-176	NotFnd	*	*	*	n	n	1.349
134	5	PCB-186	NotFnd	*	*	*	n	n	1.400
135	5	PCB-178	NotFnd	*	*	*	n	n	1.012
136	5	PCB-175	NotFnd	*	*	*	n	n	1.056
137	5	PCB-187	NotFnd	*	*	*	n	n	1.219
138	5	PCB-182	NotFnd	*	*	*	n	n	0.908
139	6	PCB-183	NotFnd	*	*	*	n	n	0.792
140	6	PCB-185	NotFnd	*	*	*	n	n	0.682
141	6	PCB-174	NotFnd	*	*	*	n	n	0.686
142	6	PCB-177	NotFnd	*	*	*	n	n	0.623
143	6	PCB-181	NotFnd	*	*	*	n	n	0.733
144	6	PCB-171/173	NotFnd	*	*	*	n	n	0.622
145	6	PCB-172	NotFnd	*	*	*	n	n	0.592
146	6	PCB-192	NotFnd	*	*	*	n	n	0.817
147	6	PCB-180/193	NotFnd	*	*	*	n	n	0.761
148	6	PCB-191	NotFnd	*	*	*	n	n	0.798
149	6	PCB-170	NotFnd	*	*	*	n	n	0.568
150	6	PCB-190	NotFnd	*	*	*	n	n	0.742
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	NotFnd	*	*	*	n	n	0.863
153	6	PCB-201	NotFnd	*	*	*	n	n	1.226
154	6	PCB-204	NotFnd	*	*	*	n	n	1.192
155	6	PCB-197	NotFnd	*	*	*	n	n	1.247
156	6	PCB-200	NotFnd	*	*	*	n	n	1.222
157	6	PCB-198/199	NotFnd	*	*	*	n	n	0.830
158	6	PCB-196	NotFnd	*	*	*	n	n	0.804
159	6	PCB-203	NotFnd	*	*	*	n	n	0.940
160	6	PCB-195	NotFnd	*	*	*	n	n	0.723
161	6	PCB-194	NotFnd	*	*	*	n	n	0.693
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	NotFnd	*	*	*	n	n	0.880
164	6	PCB-207	NotFnd	*	*	*	n	n	1.146

Filename U142059 Acquired: 7-NOV-11 14:04:53

165	7	PCB-206	NotFnd	*	*	*	n	n	0.931
166	7	PCB-209	NotFnd	*	*	*	n	n	0.894
167	1	PCB-1L	13:21	2.338e+04	7.831e+03	2.99	y	n	1.220
168	1	PCB-3L	15:38	2.711e+04	8.757e+03	3.10	y	n	1.173
169	1	PCB-4L	15:53	1.504e+04	9.791e+03	1.54	y	n	0.803
170	2	PCB-15L	21:55	1.868e+04	1.185e+04	1.58	y	n	0.962
171	2	PCB-19L	19:08	8.635e+03	8.329e+03	1.04	y	n	0.636
172	3	PCB-37L	29:01	1.495e+04	1.378e+04	1.08	y	n	1.144
173	2	PCB-54L	22:11	1.052e+04	1.335e+04	0.79	y	n	1.140
174	4	PCB-81L	35:48	1.163e+04	1.496e+04	0.78	y	n	0.947
175	4	PCB-77L	36:22	1.264e+04	1.580e+04	0.80	y	n	0.949
176	3	PCB-104L	27:46	1.385e+04	9.098e+03	1.52	y	n	1.397
177	5	PCB-123L	38:21	1.385e+04	8.690e+03	1.59	y	n	1.029
178	5	PCB-118L	38:41	1.453e+04	9.047e+03	1.61	y	n	1.077
179	5	PCB-114L	39:13	1.579e+04	9.741e+03	1.62	y	n	1.075
180	5	PCB-105L	39:52	1.432e+04	8.947e+03	1.60	y	n	1.013
181	5	PCB-126L	42:58	1.358e+04	8.371e+03	1.62	y	n	0.898
182	4	PCB-155L	33:27	1.504e+04	1.201e+04	1.25	y	n	1.637
183	6	PCB-167L	44:51	9.347e+03	7.348e+03	1.27	y	n	0.882
184	6	PCB-156/157L	46:00	1.882e+04	1.498e+04	1.26	y	n	0.818
185	6	PCB-169L	49:14	9.119e+03	7.259e+03	1.26	y	n	0.716
186	5	PCB-188L	39:12	1.414e+04	1.369e+04	1.03	y	n	2.358
187	6	PCB-189L	51:45	9.126e+03	8.892e+03	1.03	y	n	1.307
188	6	PCB-202L	44:35	1.008e+04	1.098e+04	0.92	y	n	1.804
189	6	PCB-205L	54:18	7.084e+03	7.698e+03	0.92	y	n	1.363
190	6	PCB-208L	51:15	7.123e+03	8.843e+03	0.81	y	n	1.337
191	7	PCB-206L	56:03	5.326e+03	7.021e+03	0.76	y	n	0.998
192	7	PCB-209L	57:38	7.818e+03	6.717e+03	1.16	y	n	1.563
193	3	PCB-28L	24:57	1.512e+04	1.437e+04	1.05	y	n	1.387
194	4	PCB-111L	36:25	1.739e+04	1.113e+04	1.56	y	n	1.238
195	5	PCB-178L	42:16	8.316e+03	7.900e+03	1.05	y	n	0.953
196	2	PCB-9L	17:59	2.669e+04	1.654e+04	1.61	y	n	-
197	3	PCB-52L	26:48	1.673e+04	2.099e+04	0.80	y	n	-
198	4	PCB-101L	33:42	2.213e+04	1.387e+04	1.60	y	n	-
199	5	PCB-138L	41:49	1.655e+04	1.334e+04	1.24	y	n	-
200	6	PCB-194L	53:50	9.130e+03	9.940e+03	0.92	y	n	-

-- Sample Calculation--

EDL

PCB-209 = (9.08e+02 + 9.0e+02) x 10000 pg x 1 X2.5 / (7.~~818e+03~~ + 6.7~~17e+03~~) x (0.5 ~~mL~~) x (1L / 1000 mL) x 0.8938 = 39.1 pg

1.39e+06 + 1.19e+06

11/14/11

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
Office(713)266-1599. Fax(713)266-0130

sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4-SSBLANK-PC

Run #6 Filename U142059#1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 14:04:53
Processed: 11-NOV-11 16:47:01 Sample ID: E1101017-003

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:48	1.398e+04	8.808e+03	1.59	yes	1.043	no
2	70L	PCB-70L	31:37	1.468e+04	1.833e+04	0.80	yes	1.530	no
3	15L	PCB-15L	21:55	1.868e+04	1.185e+04	1.58	yes		no
4	81L	PCB-81L	35:48	1.163e+04	1.496e+04	0.78	yes		no

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	2.33e+06	2.02e+03	1.2e+03	1.44e+06	1.85e+03	7.8e+02
2	PCB-70L	2.24e+06	3.40e+03	6.6e+02	2.76e+06	5.19e+03	5.3e+02
3	PCB-15L	3.28e+06	2.02e+03	1.6e+03	2.04e+06	1.85e+03	1.1e+03
4	PCB-81L	1.77e+06	5.31e+03	3.3e+02	2.26e+06	4.69e+03	4.8e+02

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(1.40e+04 + 8.81e+03) \times 10000\ \text{pg} \quad 1}{(1.87e+04 + 1.19e+04) \times 1.0\ \cancel{L} \times 1.043} = 750\ \text{pg} \quad \cancel{\text{pg/L}}$$

11/04/11

Columbia Analytical Services, Inc.
19408 Park Row., Suite 320
Houston, TX 77084
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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4-SSBlank-PCBs

Run #13 Filename U142059#1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 14:04:53

Processed: 11-NOV-11 13:23:20 LAB. ID: E1101017-003

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	1.87e+03	*	*	1.25e+03	*
2	PCB-2	*	1.87e+03	*	*	1.25e+03	*
3	PCB-3	*	1.87e+03	*	*	1.25e+03	*
4	PCB-4	*	5.37e+03	*	*	4.60e+04	*
5	PCB-10	*	5.37e+03	*	*	4.60e+04	*
6	PCB-9	*	5.66e+03	*	*	7.64e+04	*
7	PCB-7	*	5.66e+03	*	*	7.64e+04	*
8	PCB-6	*	5.66e+03	*	*	7.64e+04	*
9	PCB-5	*	5.66e+03	*	*	7.64e+04	*
10	PCB-8	*	5.66e+03	*	*	7.64e+04	*
11	PCB-14	*	5.66e+03	*	*	7.64e+04	*
12	PCB-11	*	5.66e+03	*	*	7.64e+04	*
13	PCB-12/13	*	5.66e+03	*	*	7.64e+04	*
14	PCB-15	*	5.66e+03	*	*	7.64e+04	*
15	PCB-19	*	9.21e+04	*	*	1.40e+03	*
16	PCB-18/30	*	9.21e+04	*	*	1.40e+03	*
17	PCB-17	*	9.21e+04	*	*	1.40e+03	*
18	PCB-27	*	9.21e+04	*	*	1.40e+03	*
19	PCB-24	*	9.21e+04	*	*	1.40e+03	*
20	PCB-16	*	9.21e+04	*	*	1.40e+03	*
21	PCB-32	*	9.21e+04	*	*	1.40e+03	*
22	PCB-34	*	5.19e+04	*	*	2.27e+03	*
23	PCB-23	*	5.19e+04	*	*	2.27e+03	*
24	PCB-26/29	*	5.19e+04	*	*	2.27e+03	*
25	PCB-25	*	5.19e+04	*	*	2.27e+03	*
26	PCB-31	*	5.19e+04	*	*	2.27e+03	*
27	PCB-20/28	*	5.19e+04	*	*	2.27e+03	*
28	PCB-21/33	*	5.19e+04	*	*	2.27e+03	*
29	PCB-22	*	5.19e+04	*	*	2.27e+03	*
30	PCB-36	*	5.19e+04	*	*	2.27e+03	*
31	PCB-39	*	5.19e+04	*	*	2.27e+03	*
32	PCB-38	*	5.19e+04	*	*	2.27e+03	*
33	PCB-35	*	5.19e+04	*	*	2.27e+03	*
34	PCB-37	*	5.19e+04	*	*	2.27e+03	*
35	PCB-54	*	1.36e+03	*	*	9.84e+02	*
36	PCB-50/53	*	1.22e+03	*	*	1.01e+03	*
37	PCB-45/51	*	1.22e+03	*	*	1.01e+03	*
38	PCB-46	*	1.22e+03	*	*	1.01e+03	*
39	PCB-52	8.41e+03	1.22e+03	6.9e+00	9.68e+03	1.01e+03	9.6e+00
40	PCB-43/73	*	1.22e+03	*	*	1.01e+03	*
41	PCB-49/69	4.06e+03	1.22e+03	3.3e+00	4.99e+03	1.01e+03	5.0e+00
42	PCB-48	*	1.22e+03	*	*	1.01e+03	*
43	PCB-44/47/65	1.03e+04	1.22e+03	8.4e+00	1.11e+04	1.01e+03	1.1e+01
44	PCB-59/62/75	*	1.22e+03	*	*	1.01e+03	*
45	PCB-42	*	1.22e+03	*	*	1.01e+03	*
46	PCB-40/41/71	*	1.22e+03	*	*	1.01e+03	*
47	PCB-64	*	1.22e+03	*	*	1.01e+03	*

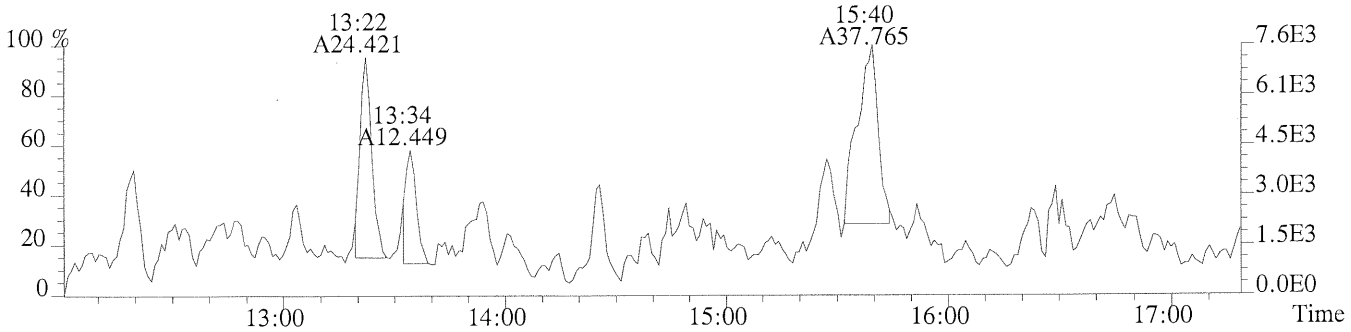
48	PCB-72	*	1.22e+03	*	*	1.01e+03	*
49	PCB-68	*	1.22e+03	*	*	1.01e+03	*
50	PCB-57	*	1.22e+03	*	*	1.01e+03	*
51	PCB-58	*	1.22e+03	*	*	1.01e+03	*
52	PCB-67	*	1.22e+03	*	*	1.01e+03	*
53	PCB-63	*	1.22e+03	*	*	1.01e+03	*
54	PCB-61/70/74/76	5.03e+03	1.22e+03	4.1e+00	5.30e+03	1.01e+03	5.3e+00
55	PCB-66	*	1.22e+03	*	*	1.01e+03	*
56	PCB-55	*	1.22e+03	*	*	1.01e+03	*
57	PCB-56	*	1.38e+03	*	*	1.34e+03	*
58	PCB-60	*	1.38e+03	*	*	1.34e+03	*
59	PCB-80	*	1.38e+03	*	*	1.34e+03	*
60	PCB-79	*	1.38e+03	*	*	1.34e+03	*
61	PCB-78	*	1.38e+03	*	*	1.34e+03	*
62	PCB-81	*	1.38e+03	*	*	1.34e+03	*
63	PCB-77	*	1.38e+03	*	*	1.34e+03	*
64	PCB-104	*	9.64e+02	*	*	8.16e+02	*
65	PCB-96	*	9.64e+02	*	*	8.16e+02	*
66	PCB-103	*	9.64e+02	*	*	8.16e+02	*
67	PCB-94	*	9.64e+02	*	*	8.16e+02	*
68	PCB-95	*	9.64e+02	*	*	8.16e+02	*
69	PCB-93/100	*	9.64e+02	*	*	8.16e+02	*
70	PCB-98/102	*	9.64e+02	*	*	8.16e+02	*
71	PCB-88/91	*	9.64e+02	*	*	8.16e+02	*
72	PCB-84	*	9.64e+02	*	*	8.16e+02	*
73	PCB-89	*	9.64e+02	*	*	8.16e+02	*
74	PCB-121	*	1.18e+03	*	*	1.22e+03	*
75	PCB-92	*	1.18e+03	*	*	1.22e+03	*
76	PCB-90/101/113	8.15e+03	1.18e+03	6.9e+00	3.50e+03	1.22e+03	2.9e+00
77	PCB-83/99	*	1.18e+03	*	*	1.22e+03	*
78	PCB-112	*	1.18e+03	*	*	1.22e+03	*
79	CB-86/87/97/109/119/125	*	1.18e+03	*	*	1.22e+03	*
80	PCB-117	*	1.18e+03	*	*	1.22e+03	*
81	PCB-85/116	*	1.18e+03	*	*	1.22e+03	*
82	PCB-110/115	4.09e+03	1.18e+03	3.5e+00	4.10e+03	1.22e+03	3.3e+00
83	PCB-82	*	1.18e+03	*	*	1.22e+03	*
84	PCB-111	*	1.18e+03	*	*	1.22e+03	*
85	PCB-120	*	1.18e+03	*	*	1.22e+03	*
86	PCB-108/124	*	5.64e+02	*	*	7.80e+02	*
87	PCB-107	*	5.64e+02	*	*	7.80e+02	*
88	PCB-123	*	5.64e+02	*	*	7.80e+02	*
89	PCB-106	*	5.64e+02	*	*	7.80e+02	*
90	PCB-118	5.15e+03	5.64e+02	9.1e+00	2.25e+03	7.80e+02	2.9e+00
91	PCB-122	*	5.64e+02	*	*	7.80e+02	*
92	PCB-114	*	5.64e+02	*	*	7.80e+02	*
93	PCB-105	*	5.64e+02	*	*	7.80e+02	*
94	PCB-127	*	5.64e+02	*	*	7.80e+02	*
95	PCB-126	*	5.64e+02	*	*	7.80e+02	*
96	PCB-155	*	7.04e+02	*	*	8.76e+02	*
97	PCB-152	*	7.04e+02	*	*	8.76e+02	*
98	PCB-150	*	7.04e+02	*	*	8.76e+02	*
99	PCB-136	*	7.04e+02	*	*	8.76e+02	*
100	PCB-145	*	7.04e+02	*	*	8.76e+02	*
101	PCB-148	*	7.04e+02	*	*	8.76e+02	*
102	PCB-135/151	*	7.04e+02	*	*	8.76e+02	*
103	PCB-154	*	7.04e+02	*	*	8.76e+02	*
104	PCB-144	*	7.04e+02	*	*	8.76e+02	*

105	PCB-147/149	*	7.16e+02	*	*	8.96e+02	*
106	PCB-134	*	7.16e+02	*	*	8.96e+02	*
107	PCB-143	*	7.16e+02	*	*	8.96e+02	*
108	PCB-139/140	*	7.16e+02	*	*	8.96e+02	*
109	PCB-131	*	7.16e+02	*	*	8.96e+02	*
110	PCB-142	*	7.16e+02	*	*	8.96e+02	*
111	PCB-132	*	7.16e+02	*	*	8.96e+02	*
112	PCB-133	*	7.16e+02	*	*	8.96e+02	*
113	PCB-165	*	7.16e+02	*	*	8.96e+02	*
114	PCB-146	*	7.16e+02	*	*	8.96e+02	*
115	PCB-161	*	7.16e+02	*	*	8.96e+02	*
116	PCB-153/168	*	7.16e+02	*	*	8.96e+02	*
117	PCB-141	*	7.16e+02	*	*	8.96e+02	*
118	PCB-130	*	7.16e+02	*	*	8.96e+02	*
119	PCB-137	*	7.16e+02	*	*	8.96e+02	*
120	PCB-164	*	7.16e+02	*	*	8.96e+02	*
121	PCB-129/138/163	*	7.16e+02	*	*	8.96e+02	*
122	PCB-160	*	7.16e+02	*	*	8.96e+02	*
123	PCB-158	*	7.16e+02	*	*	8.96e+02	*
124	PCB-128/166	*	7.16e+02	*	*	8.96e+02	*
125	PCB-159	*	6.68e+02	*	*	8.88e+02	*
126	PCB-162	*	6.68e+02	*	*	8.88e+02	*
127	PCB-167	*	6.68e+02	*	*	8.88e+02	*
128	PCB-156/157	*	6.68e+02	*	*	8.88e+02	*
129	PCB-169	*	6.68e+02	*	*	8.88e+02	*
130	PCB-188	*	7.44e+02	*	*	7.04e+02	*
131	PCB-179	*	7.44e+02	*	*	7.04e+02	*
132	PCB-184	*	7.44e+02	*	*	7.04e+02	*
133	PCB-176	*	7.44e+02	*	*	7.04e+02	*
134	PCB-186	*	7.44e+02	*	*	7.04e+02	*
135	PCB-178	*	7.44e+02	*	*	7.04e+02	*
136	PCB-175	*	7.44e+02	*	*	7.04e+02	*
137	PCB-187	*	7.44e+02	*	*	7.04e+02	*
138	PCB-182	*	7.44e+02	*	*	7.04e+02	*
139	PCB-183	*	1.24e+03	*	*	8.04e+02	*
140	PCB-185	*	1.24e+03	*	*	8.04e+02	*
141	PCB-174	*	1.24e+03	*	*	8.04e+02	*
142	PCB-177	*	1.24e+03	*	*	8.04e+02	*
143	PCB-181	*	1.24e+03	*	*	8.04e+02	*
144	PCB-171/173	*	1.24e+03	*	*	8.04e+02	*
145	PCB-172	*	1.24e+03	*	*	8.04e+02	*
146	PCB-192	*	1.24e+03	*	*	8.04e+02	*
147	PCB-180/193	*	1.24e+03	*	*	8.04e+02	*
148	PCB-191	*	1.24e+03	*	*	8.04e+02	*
149	PCB-170	*	1.24e+03	*	*	8.04e+02	*
150	PCB-190	*	1.24e+03	*	*	8.04e+02	*
151	PCB-189	*	1.24e+03	*	*	8.04e+02	*
152	PCB-202	*	8.16e+02	*	*	8.80e+02	*
153	PCB-201	*	8.16e+02	*	*	8.80e+02	*
154	PCB-204	*	8.16e+02	*	*	8.80e+02	*
155	PCB-197	*	8.16e+02	*	*	8.80e+02	*
156	PCB-200	*	8.16e+02	*	*	8.80e+02	*
157	PCB-198/199	*	8.16e+02	*	*	8.80e+02	*
158	PCB-196	*	8.16e+02	*	*	8.80e+02	*
159	PCB-203	*	8.16e+02	*	*	8.80e+02	*
160	PCB-195	*	8.16e+02	*	*	8.80e+02	*
161	PCB-194	*	8.16e+02	*	*	8.80e+02	*
162	PCB-205	*	8.16e+02	*	*	8.80e+02	*

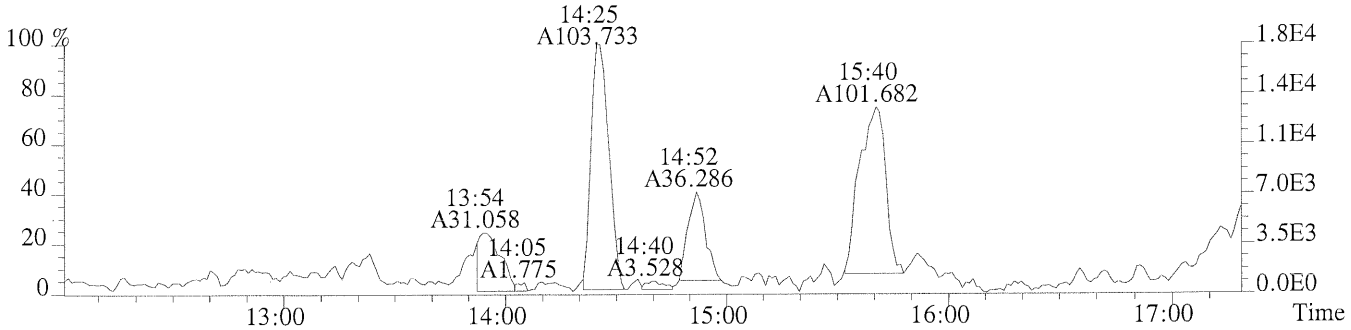
163	PCB-208	*	9.40e+02	*	*	9.92e+02	*
164	PCB-207	*	9.40e+02	*	*	9.92e+02	*
165	PCB-206	*	1.87e+03	*	*	1.65e+03	*
166	PCB-209	*	9.08e+02	*	*	9.00e+02	*
167	PCB-1L	4.84e+06	1.49e+03	3.2e+03	1.62e+06	1.34e+04	1.2e+02
168	PCB-3L	3.50e+06	1.49e+03	2.3e+03	1.13e+06	1.34e+04	8.5e+01
169	PCB-4L	1.62e+06	1.48e+03	1.1e+03	1.07e+06	1.72e+03	6.2e+02
170	PCB-15L	3.28e+06	2.02e+03	1.6e+03	2.04e+06	1.85e+03	1.1e+03
171	PCB-19L	1.81e+06	9.53e+04	1.9e+01	1.69e+06	1.52e+05	1.1e+01
172	PCB-37L	2.13e+06	1.90e+04	1.1e+02	2.00e+06	4.01e+04	5.0e+01
173	PCB-54L	1.86e+06	5.53e+03	3.4e+02	2.36e+06	4.17e+03	5.7e+02
174	PCB-81L	1.77e+06	5.31e+03	3.3e+02	2.26e+06	4.69e+03	4.8e+02
175	PCB-77L	1.90e+06	5.31e+03	3.6e+02	2.39e+06	4.69e+03	5.1e+02
176	PCB-104L	2.00e+06	8.76e+02	2.3e+03	1.33e+06	7.52e+02	1.8e+03
177	PCB-123L	2.16e+06	5.48e+02	3.9e+03	1.36e+06	1.86e+03	7.3e+02
178	PCB-118L	2.26e+06	5.48e+02	4.1e+03	1.43e+06	1.86e+03	7.7e+02
179	PCB-114L	2.51e+06	5.48e+02	4.6e+03	1.55e+06	1.86e+03	8.4e+02
180	PCB-105L	2.15e+06	5.48e+02	3.9e+03	1.37e+06	1.86e+03	7.4e+02
181	PCB-126L	2.07e+06	5.48e+02	3.8e+03	1.29e+06	1.86e+03	6.9e+02
182	PCB-155L	2.22e+06	1.04e+03	2.1e+03	1.78e+06	1.29e+03	1.4e+03
183	PCB-167L	1.88e+06	7.72e+02	2.4e+03	1.46e+06	2.64e+03	5.5e+02
184	PCB-156/157L	2.87e+06	7.72e+02	3.7e+03	2.26e+06	2.64e+03	8.6e+02
185	PCB-169L	1.77e+06	7.72e+02	2.3e+03	1.41e+06	2.64e+03	5.4e+02
186	PCB-188L	2.21e+06	8.76e+02	2.5e+03	2.15e+06	5.28e+02	4.1e+03
187	PCB-189L	1.85e+06	9.12e+02	2.0e+03	1.81e+06	9.12e+02	2.0e+03
188	PCB-202L	1.98e+06	9.04e+02	2.2e+03	2.15e+06	9.40e+02	2.3e+03
189	PCB-205L	1.46e+06	9.04e+02	1.6e+03	1.60e+06	9.40e+02	1.7e+03
190	PCB-208L	1.41e+06	7.84e+02	1.8e+03	1.78e+06	7.32e+02	2.4e+03
191	PCB-206L	9.64e+05	7.76e+02	1.2e+03	1.25e+06	9.60e+02	1.3e+03
192	PCB-209L	1.39e+06	7.52e+02	1.8e+03	1.19e+06	8.64e+02	1.4e+03
193	PCB-28L	2.29e+06	1.90e+04	1.2e+02	2.15e+06	4.01e+04	5.4e+01
194	PCB-111L	2.71e+06	1.50e+03	1.8e+03	1.73e+06	1.30e+03	1.3e+03
195	PCB-178L	1.38e+06	8.76e+02	1.6e+03	1.29e+06	5.28e+02	2.5e+03
196	PCB-9L	7.16e+06	2.02e+03	3.5e+03	4.42e+06	1.85e+03	2.4e+03
197	PCB-52L	2.50e+06	3.40e+03	7.3e+02	3.14e+06	5.19e+03	6.0e+02
198	PCB-101L	3.27e+06	1.50e+03	2.2e+03	2.05e+06	1.30e+03	1.6e+03
199	PCB-138L	2.52e+06	1.32e+03	1.9e+03	2.06e+06	1.24e+03	1.7e+03
200	PCB-194L	1.83e+06	9.04e+02	2.0e+03	2.01e+06	9.40e+02	2.1e+03

File:U142059 #1-341 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-

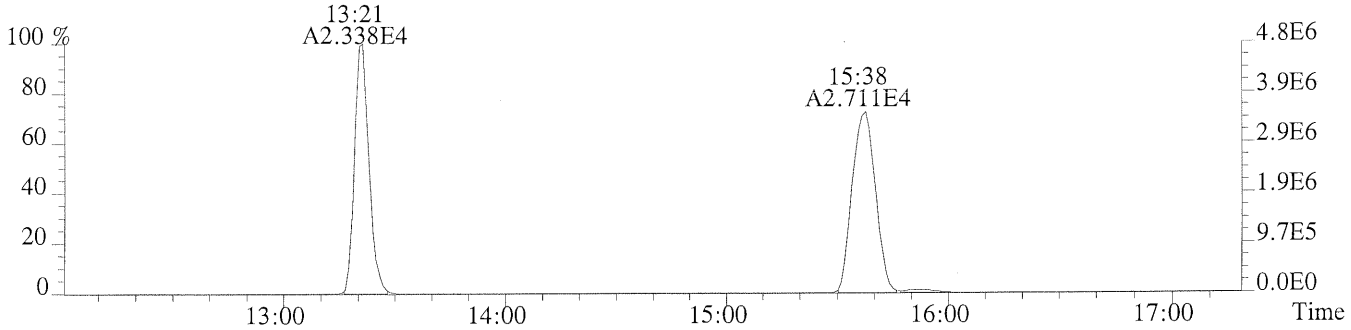
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1868.0,1.00%,F,T)



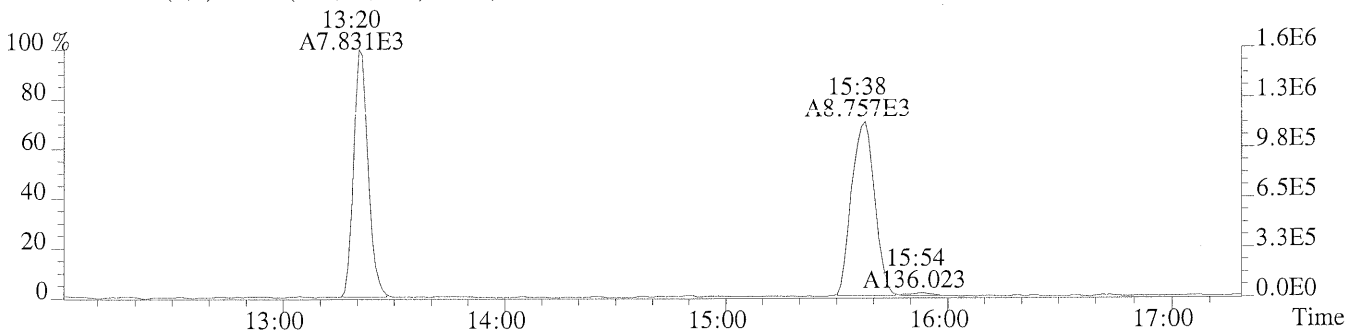
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1252.0,1.00%,F,T)



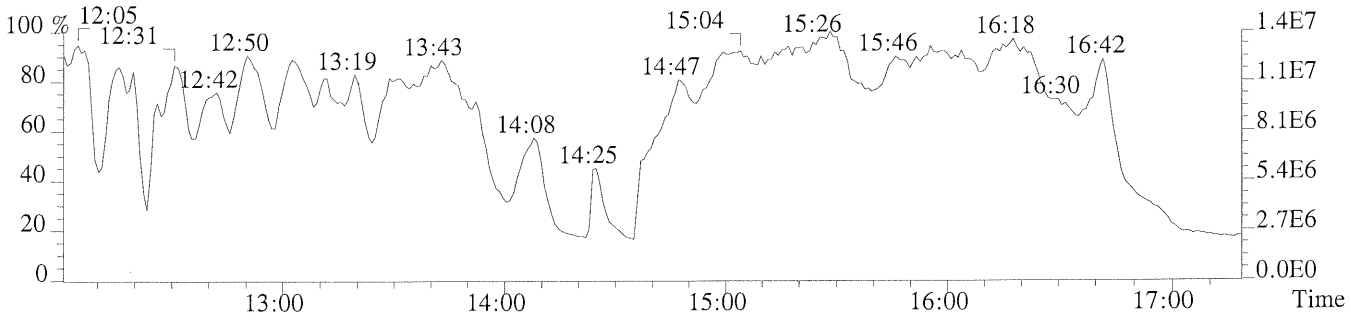
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1492.0,1.00%,F,T)



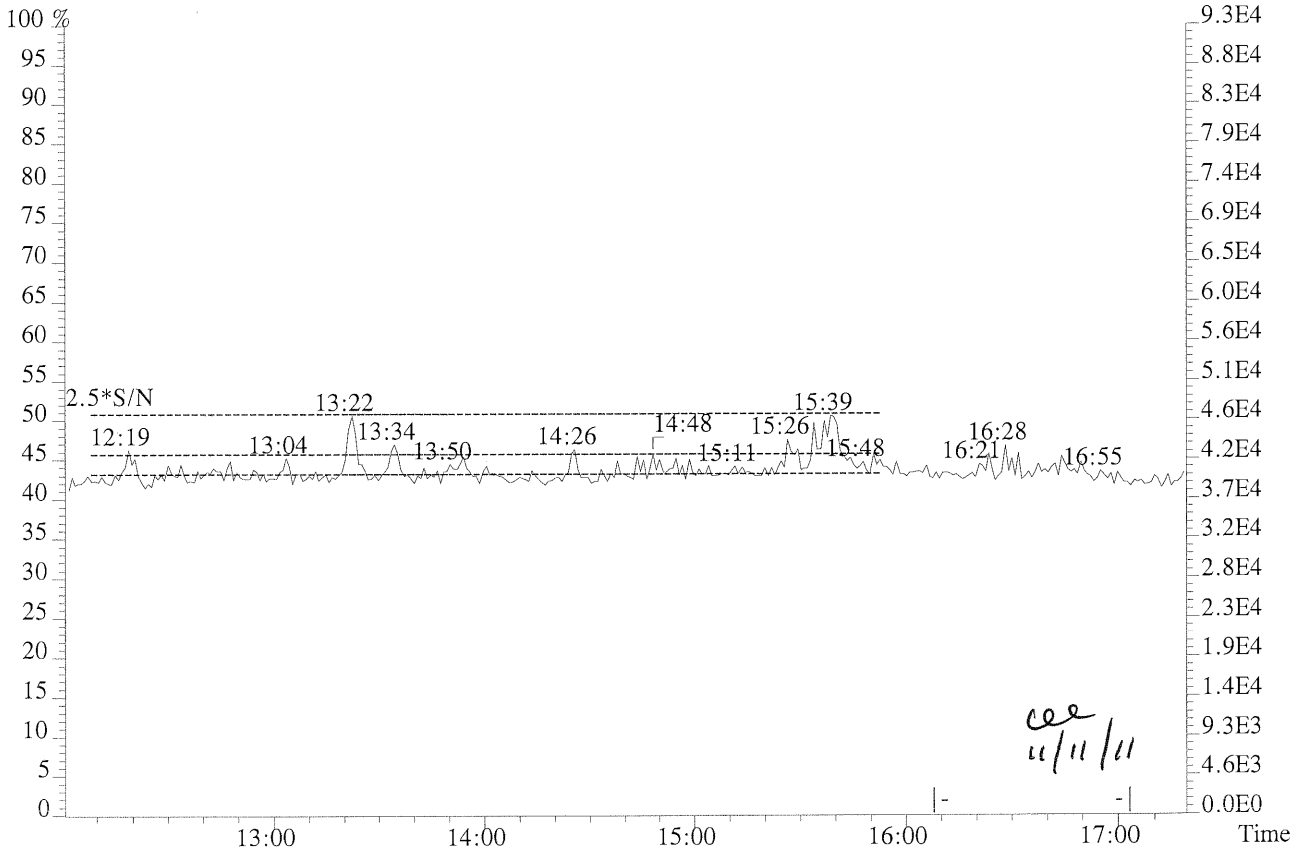
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,13352.0,1.00%,F,T)



218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142059 #1-341 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-003 B4-SSBlank-
188.0393



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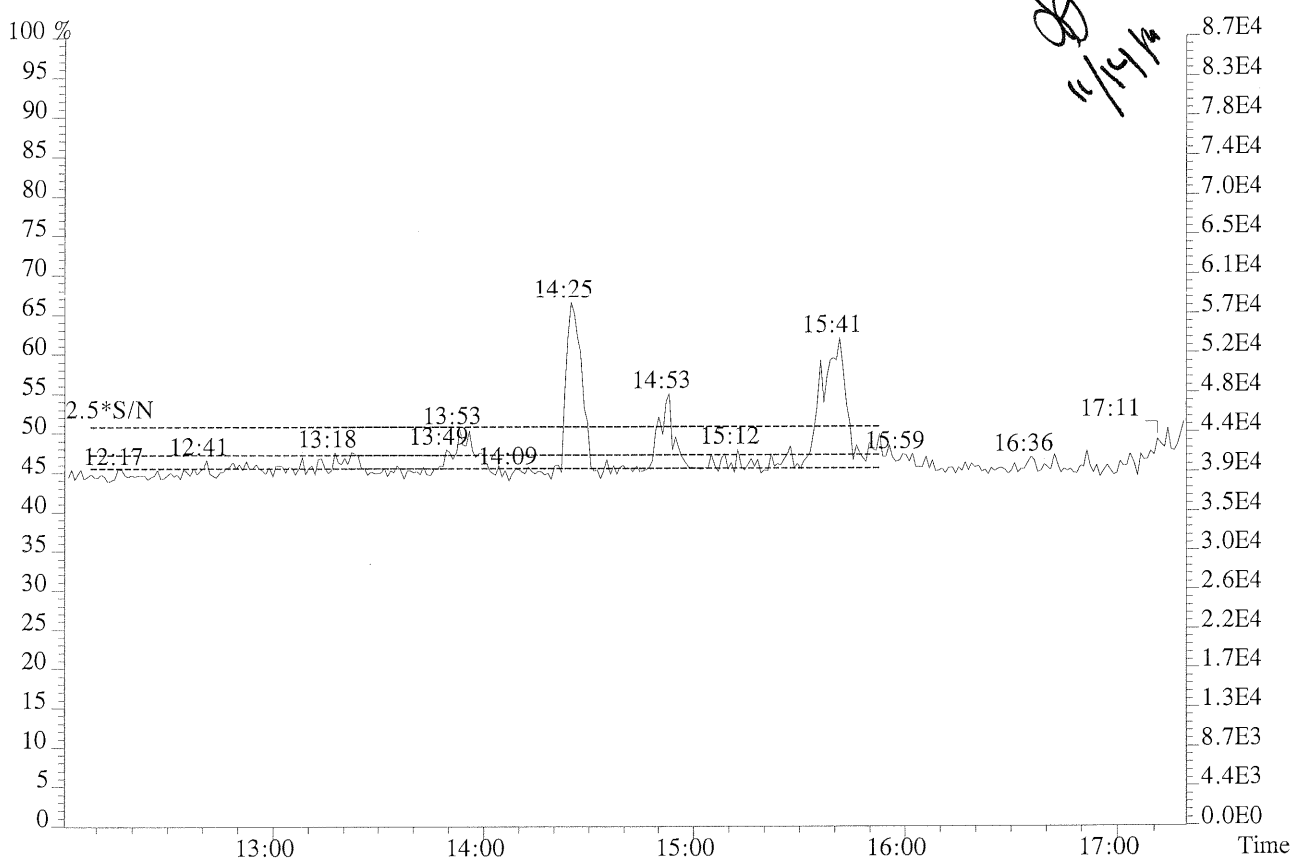
190.0363



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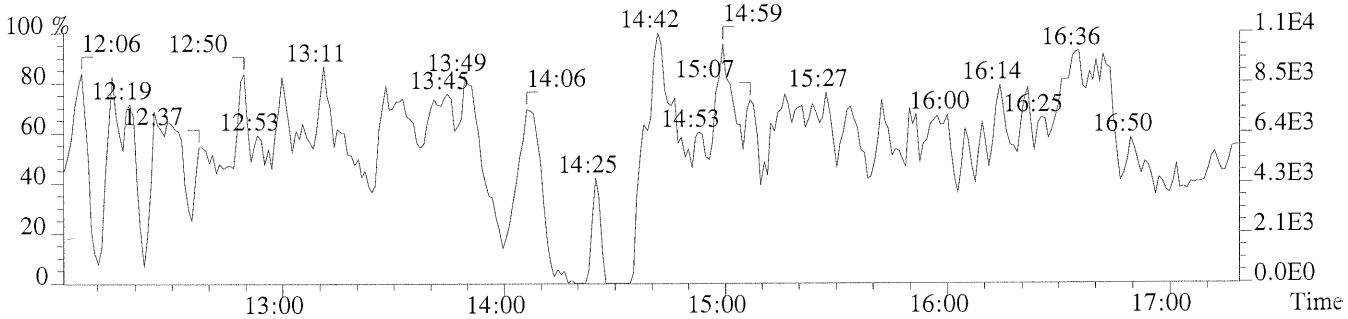
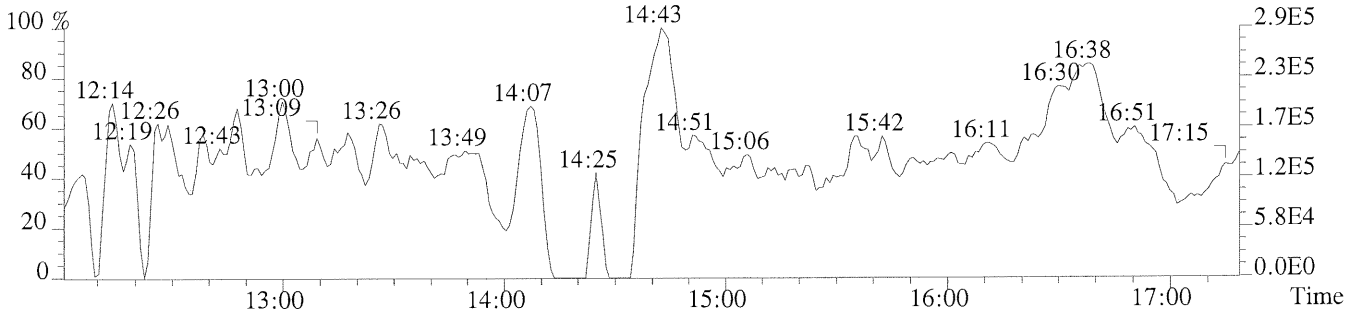
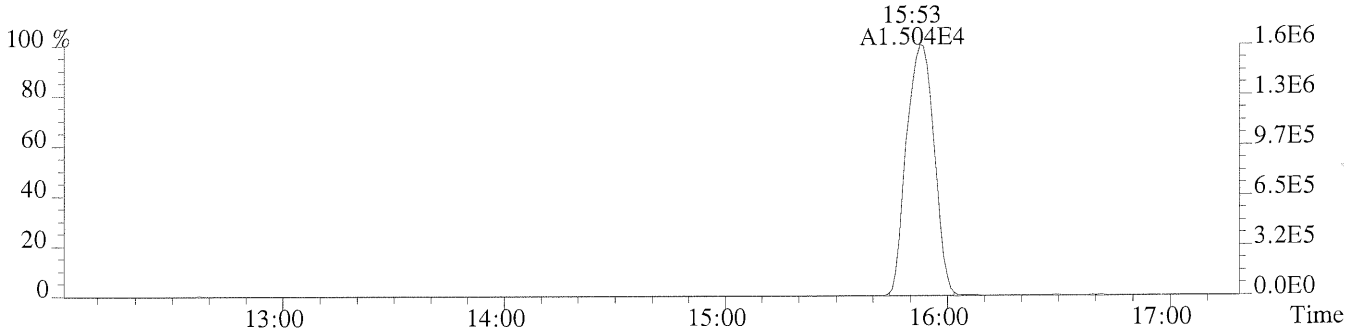
File:U142059 #1-341 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7780.0,1.00%,F,T)



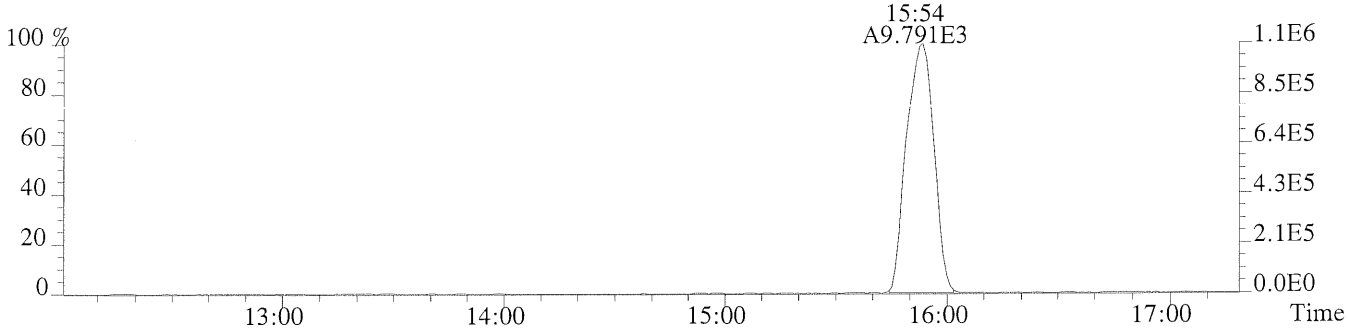
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,173152.0,1.00%,F,T)



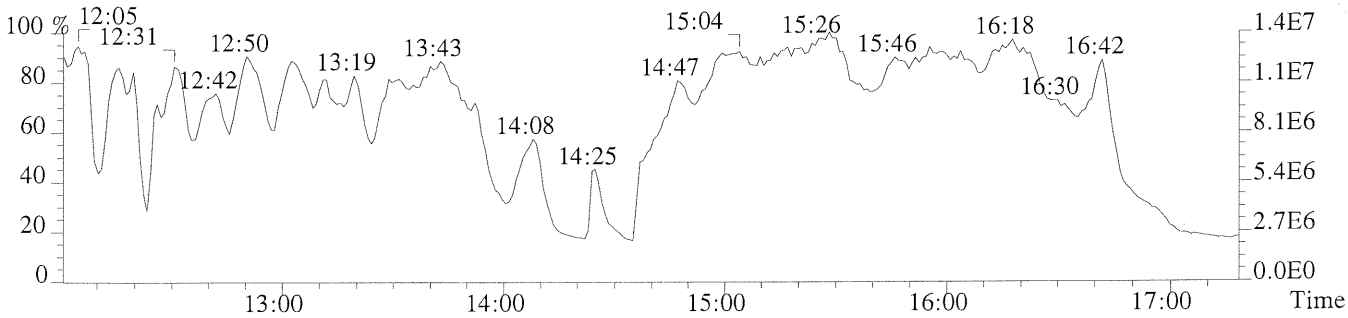
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1476.0,1.00%,F,T)



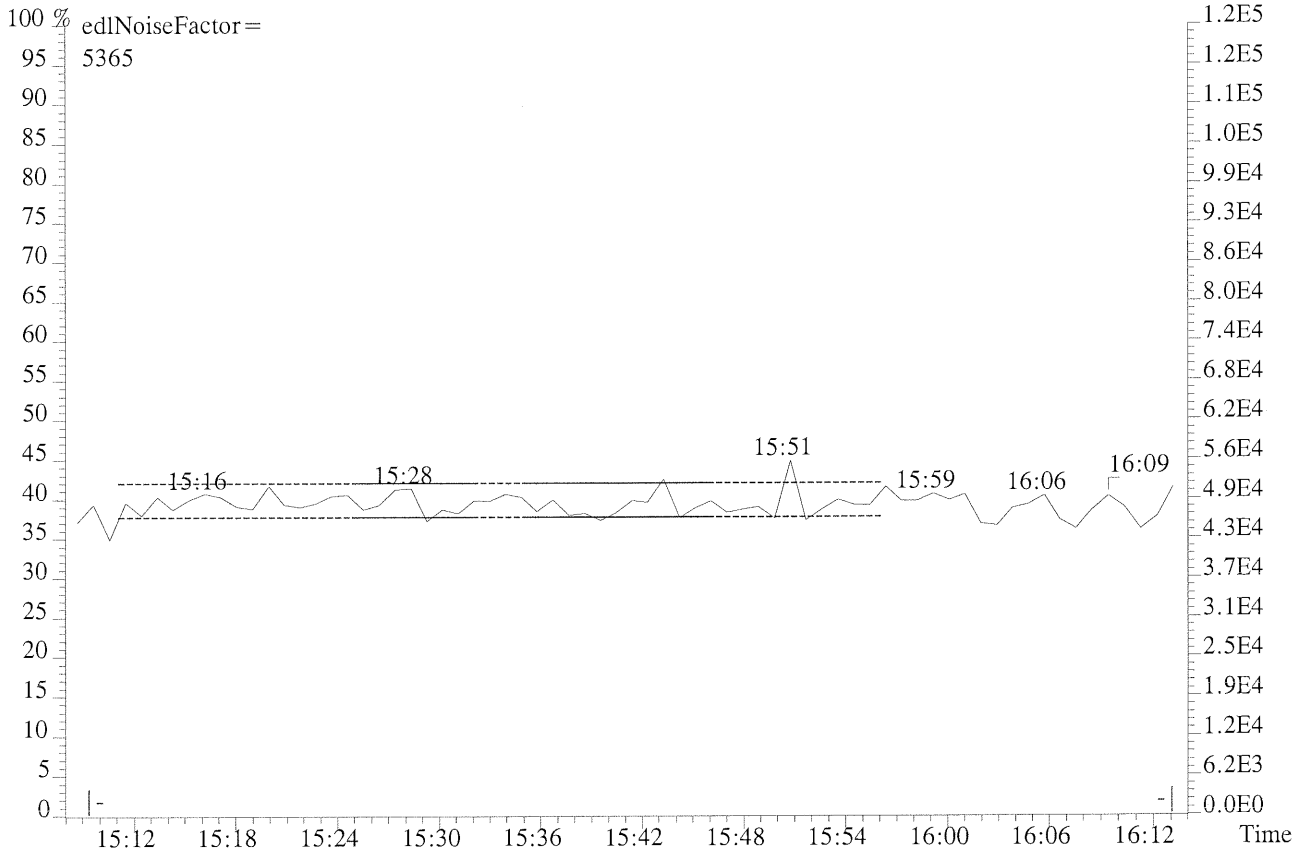
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1720.0,1.00%,F,T)



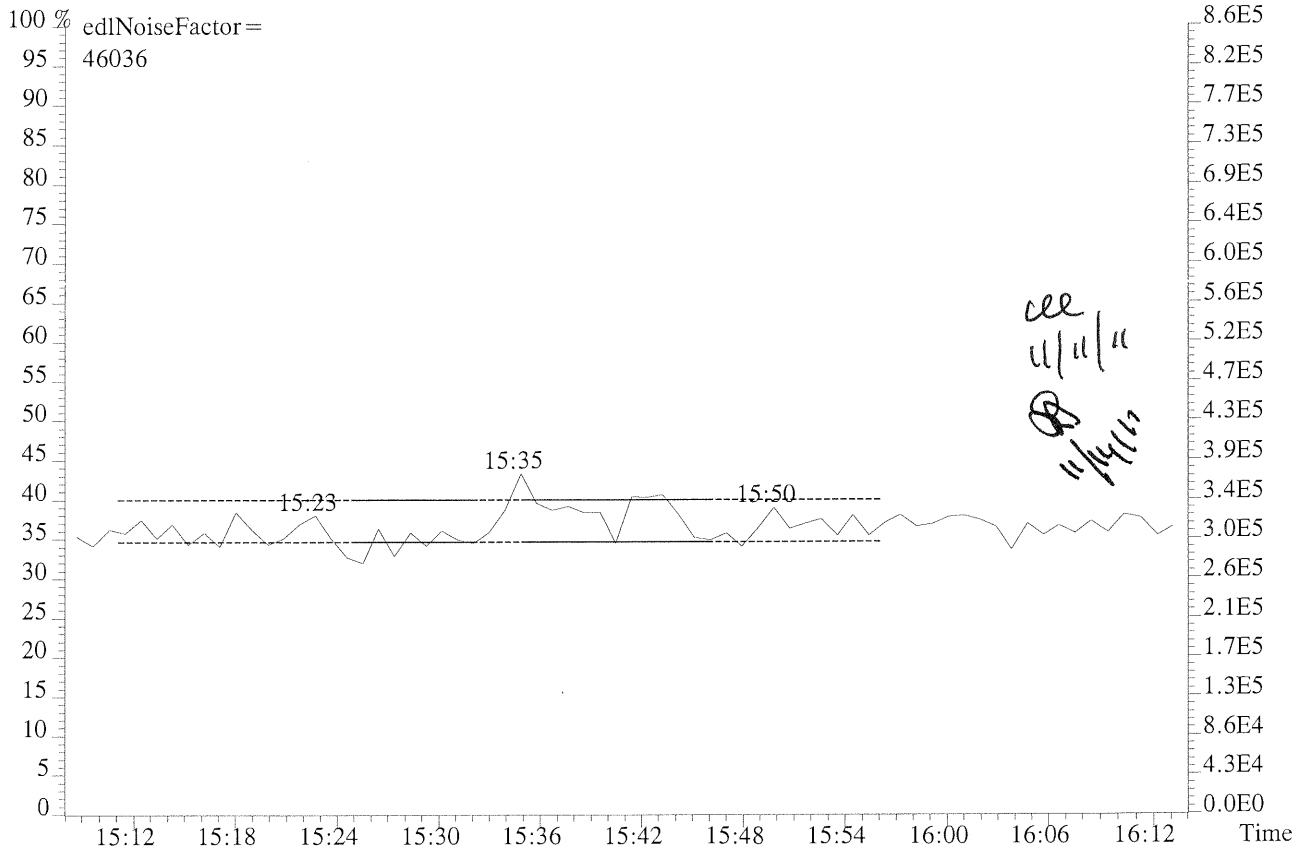
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142059 #1-341 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-003 B4-SSBlank-
222.0003



223.9974



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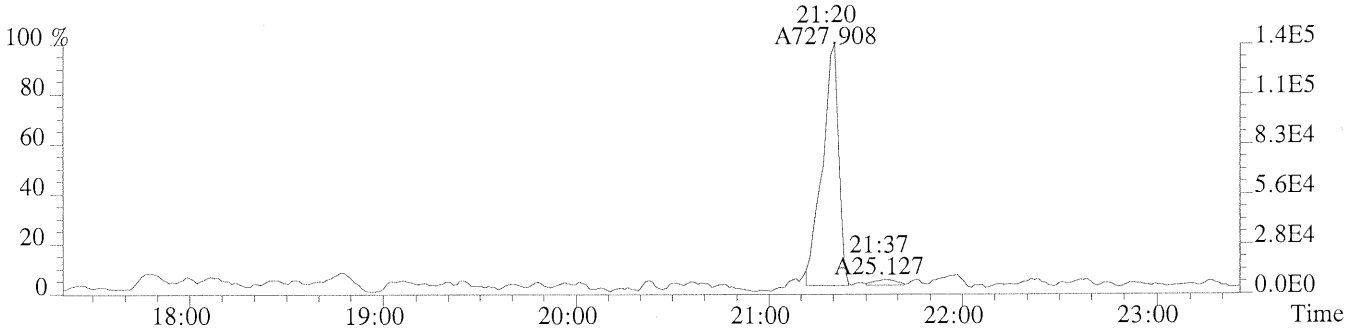
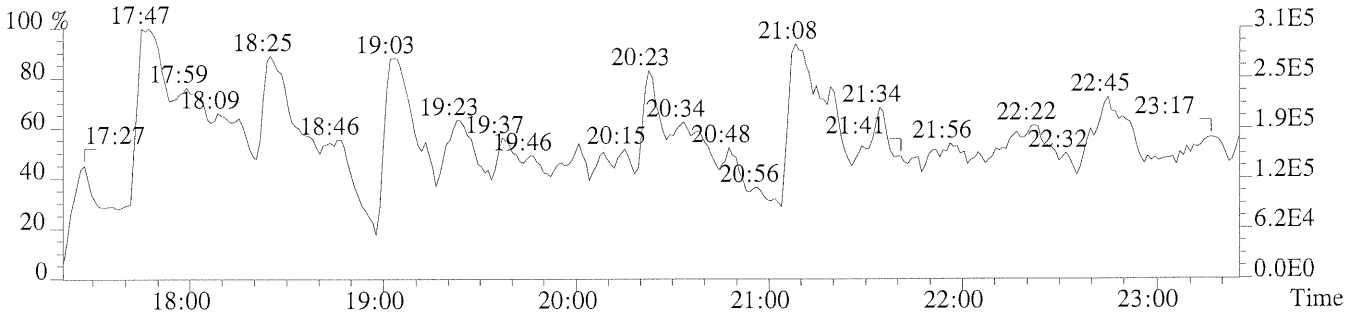
File:U142059 #1-336 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-

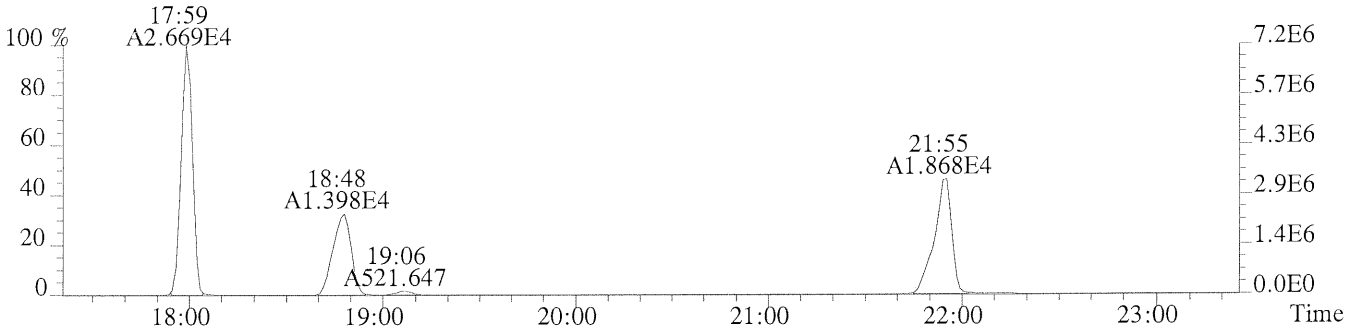
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6924.0,1.00%,F,T)



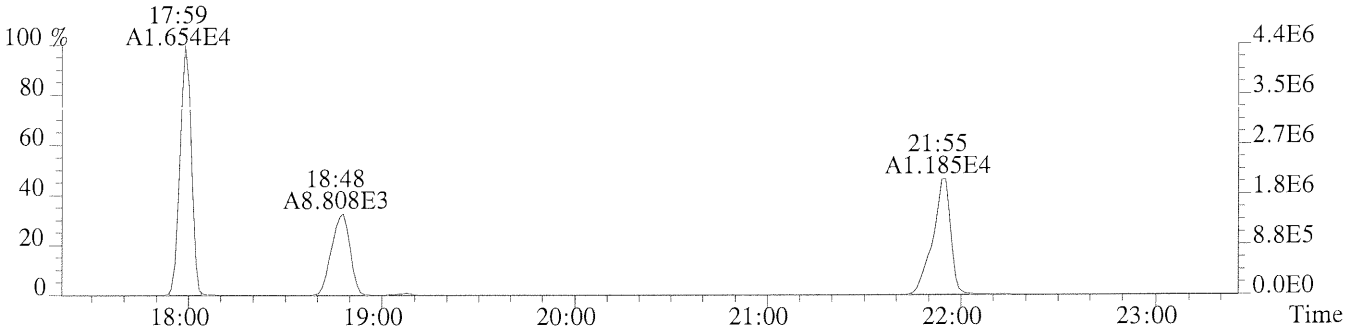
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,219656.0,1.00%,F,T)



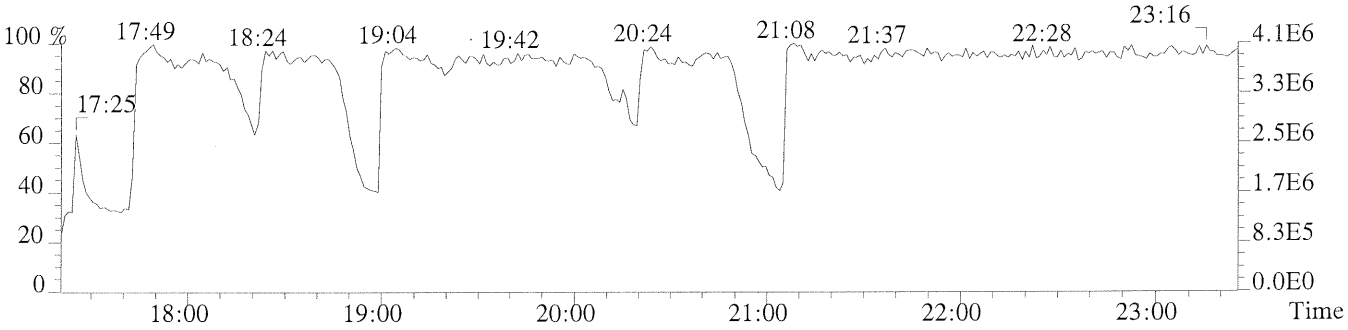
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2020.0,1.00%,F,T)



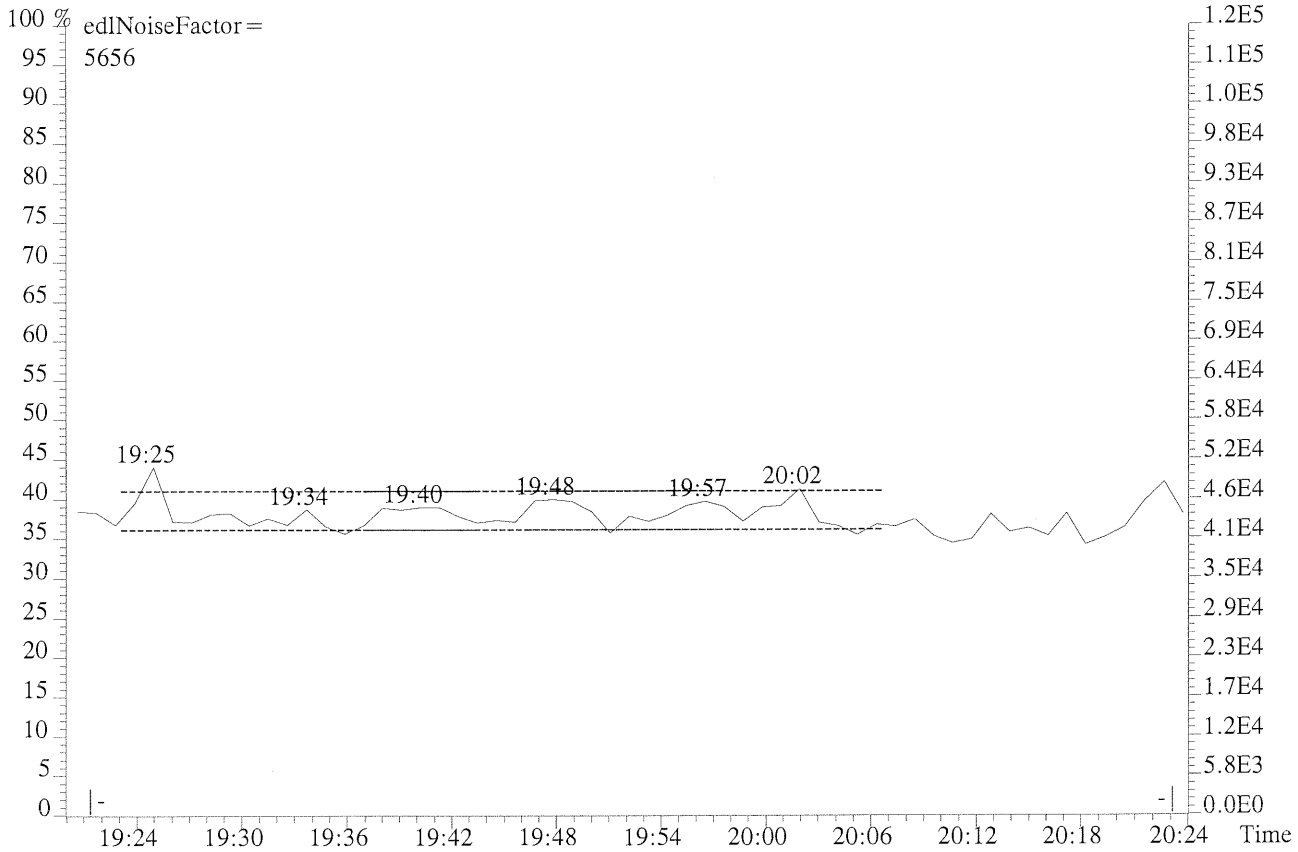
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1852.0,1.00%,F,T)



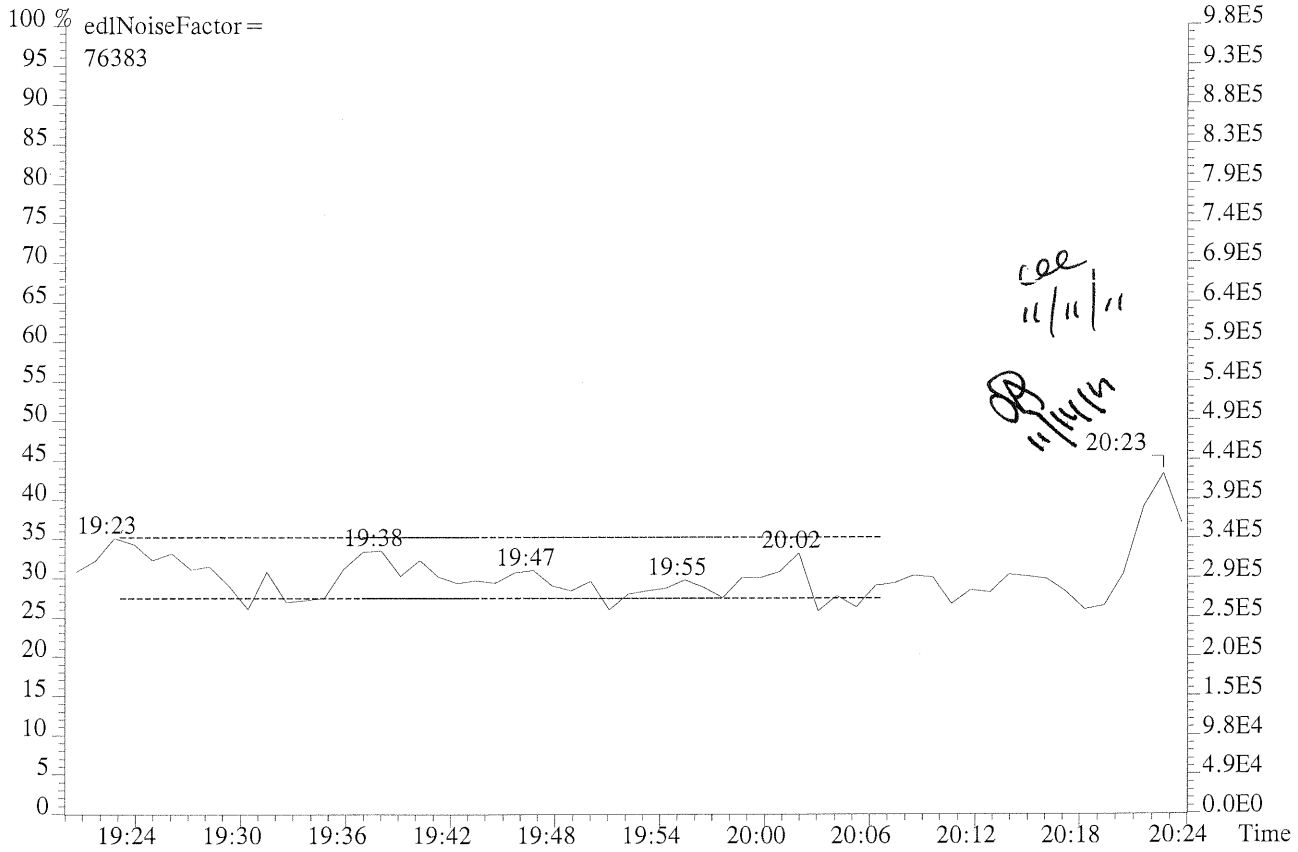
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142059 #1-336 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-003 B4-SSBlank-
222.0003 F:2



223.9974 F:2



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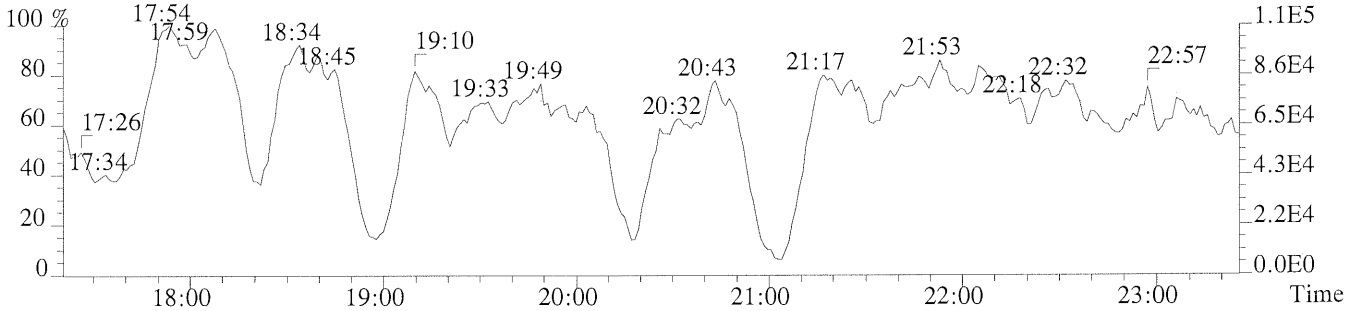
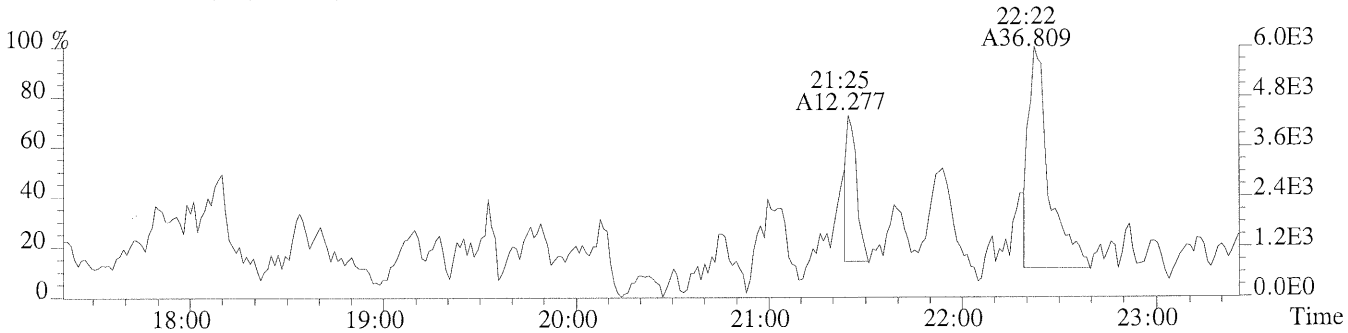
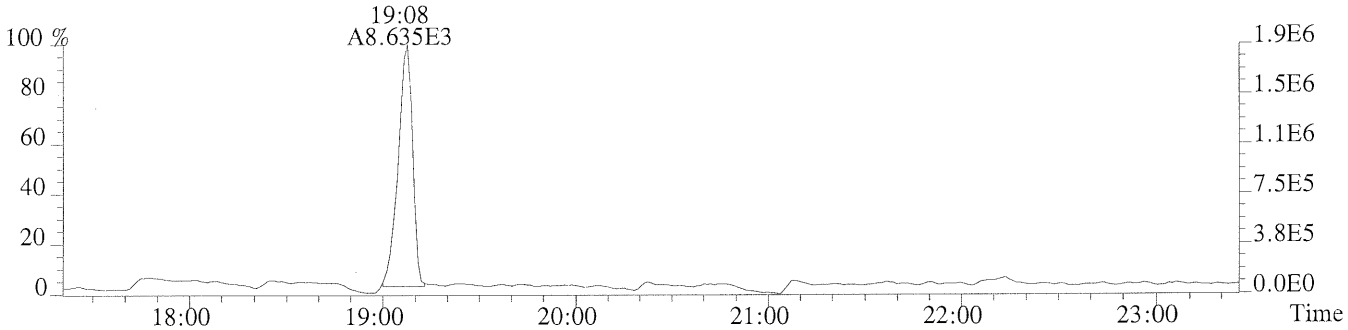
File:U142059 #1-336 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,92148.0,1.00%,F,T)



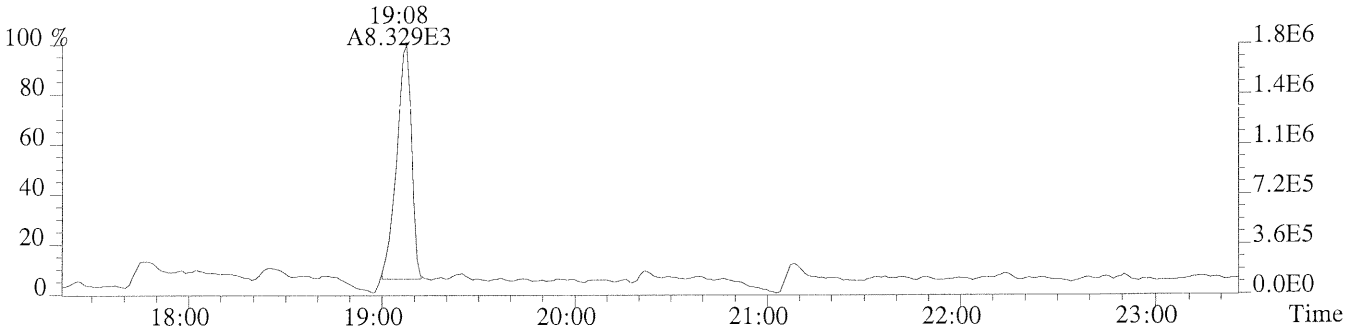
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1404.0,1.00%,F,T)



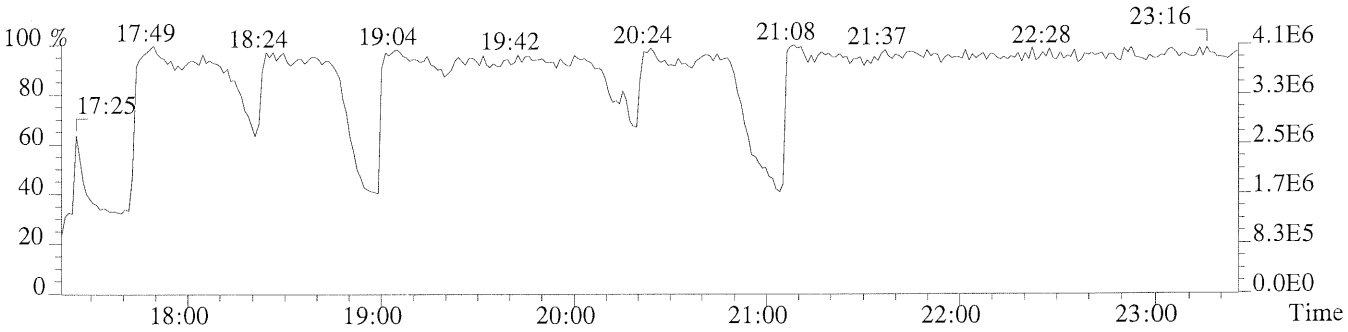
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,95296.0,1.00%,F,T)



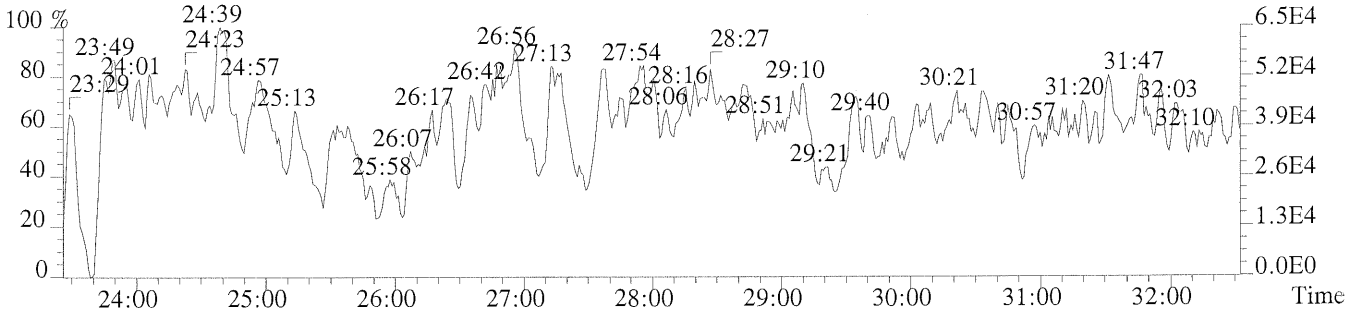
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,152288.0,1.00%,F,T)



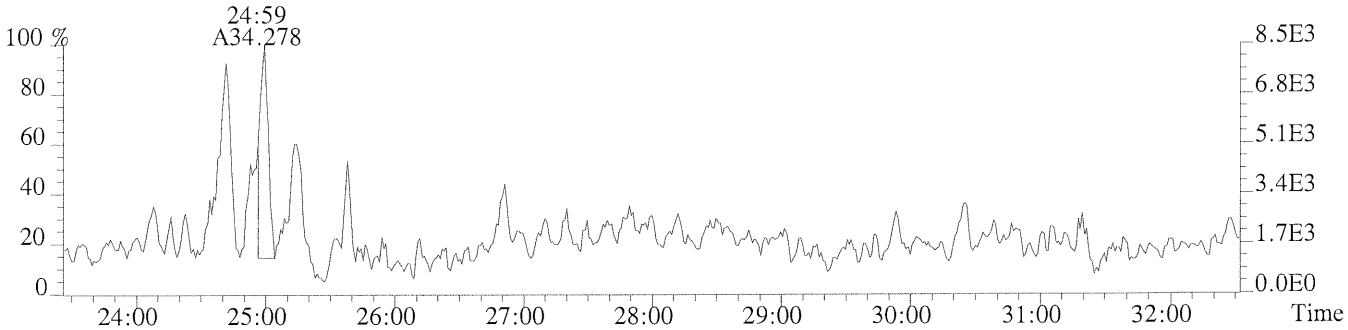
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



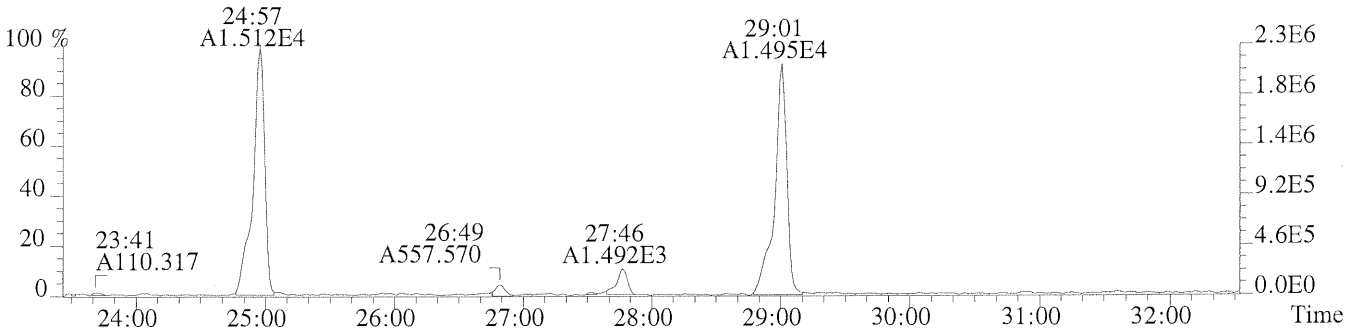
File:U142059 #1-582 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,51872.0,1.00%,F,T)



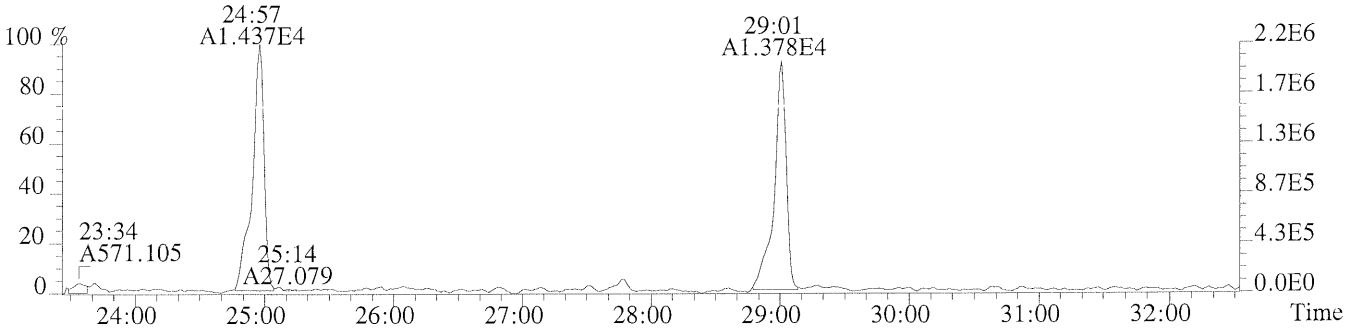
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2272.0,1.00%,F,T)



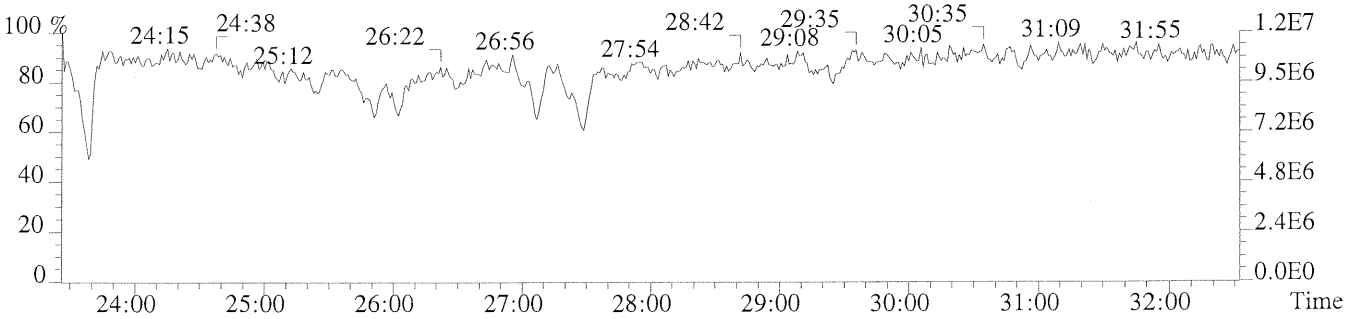
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,19012.0,1.00%,F,T)



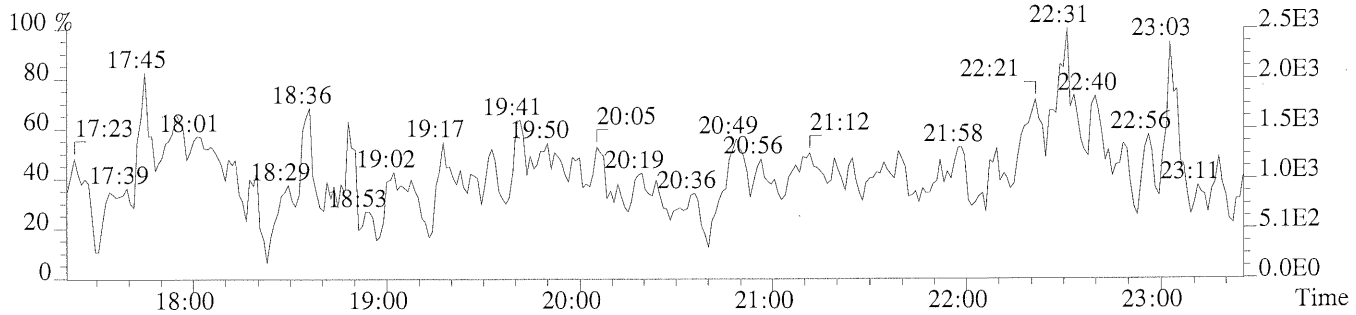
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,40064.0,1.00%,F,T)



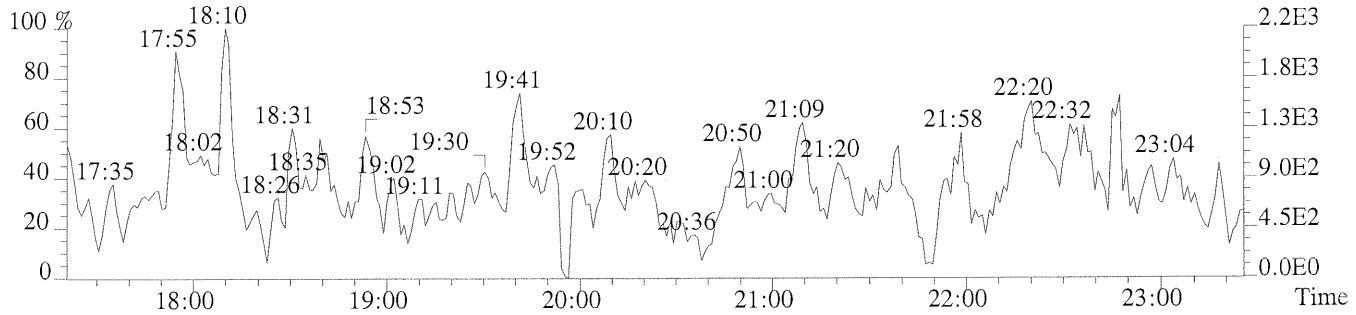
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



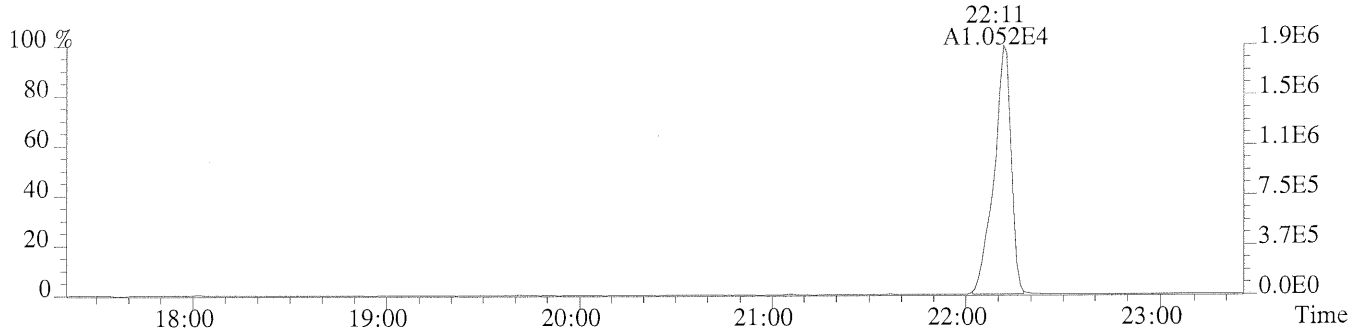
File:U142059 #1-336 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1356.0,1.00%,F,T)



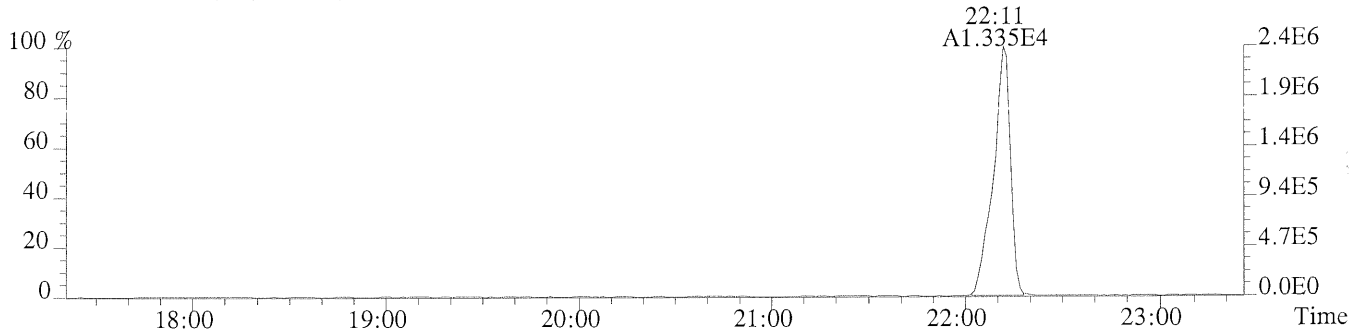
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



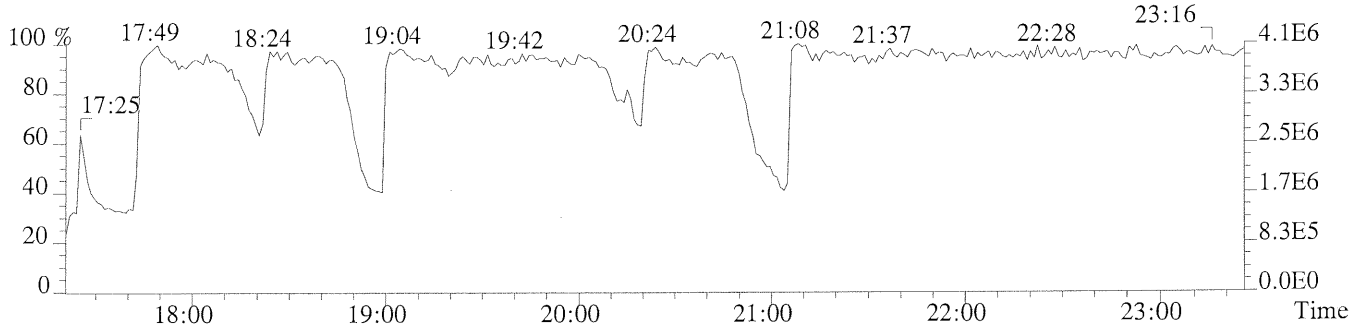
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5532.0,1.00%,F,T)



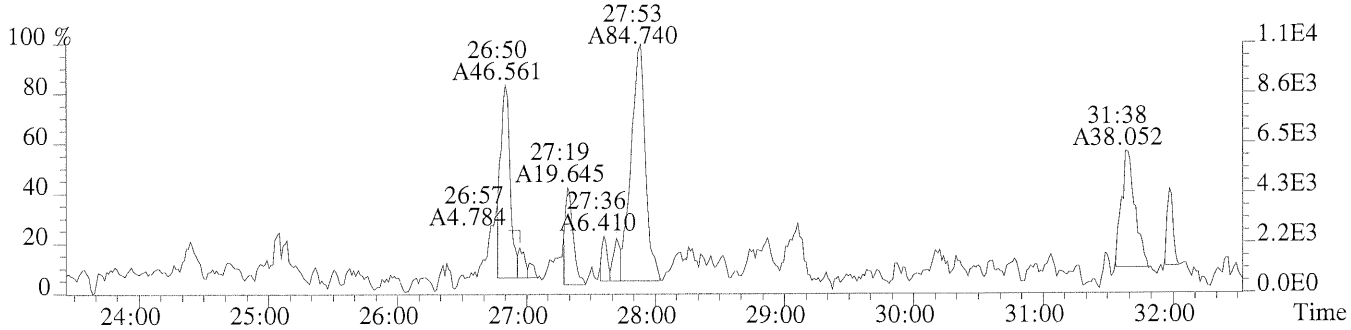
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4168.0,1.00%,F,T)



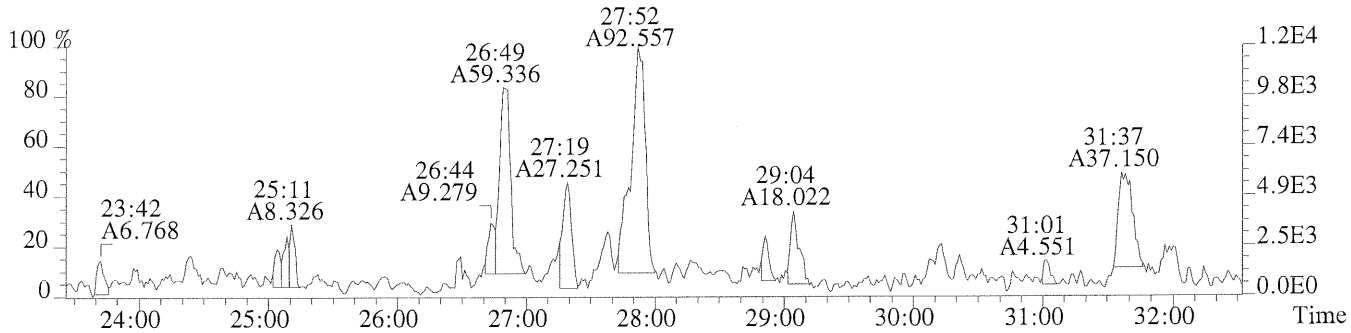
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



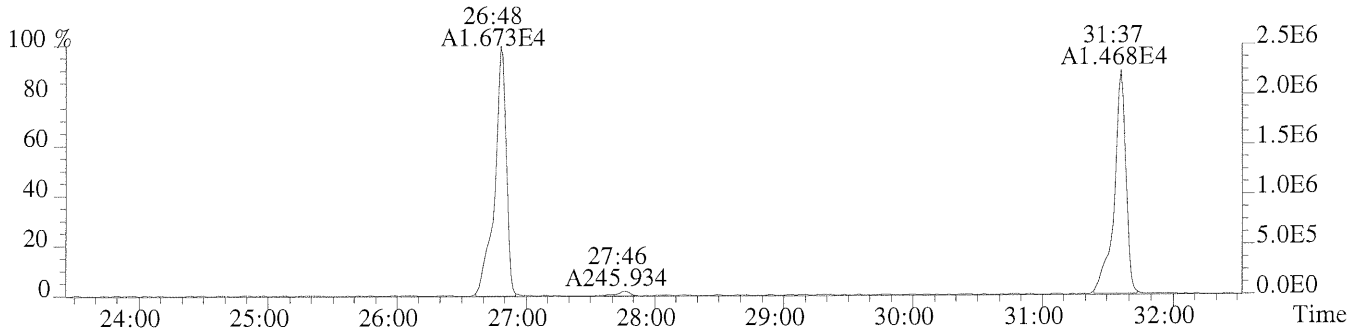
File:U142059 #1-582 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



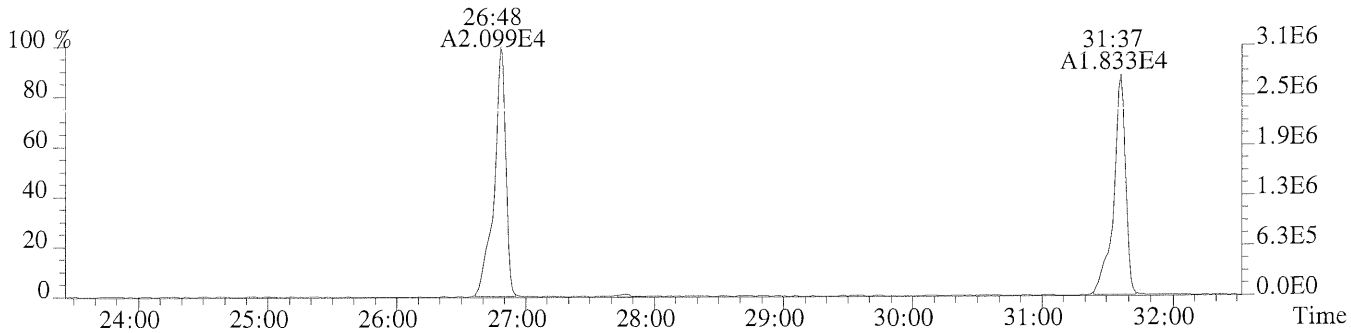
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



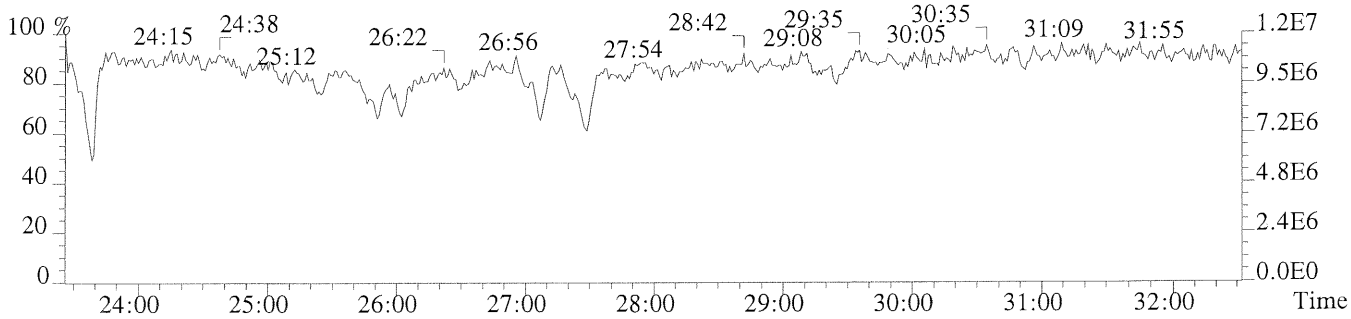
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3400.0,1.00%,F,T)



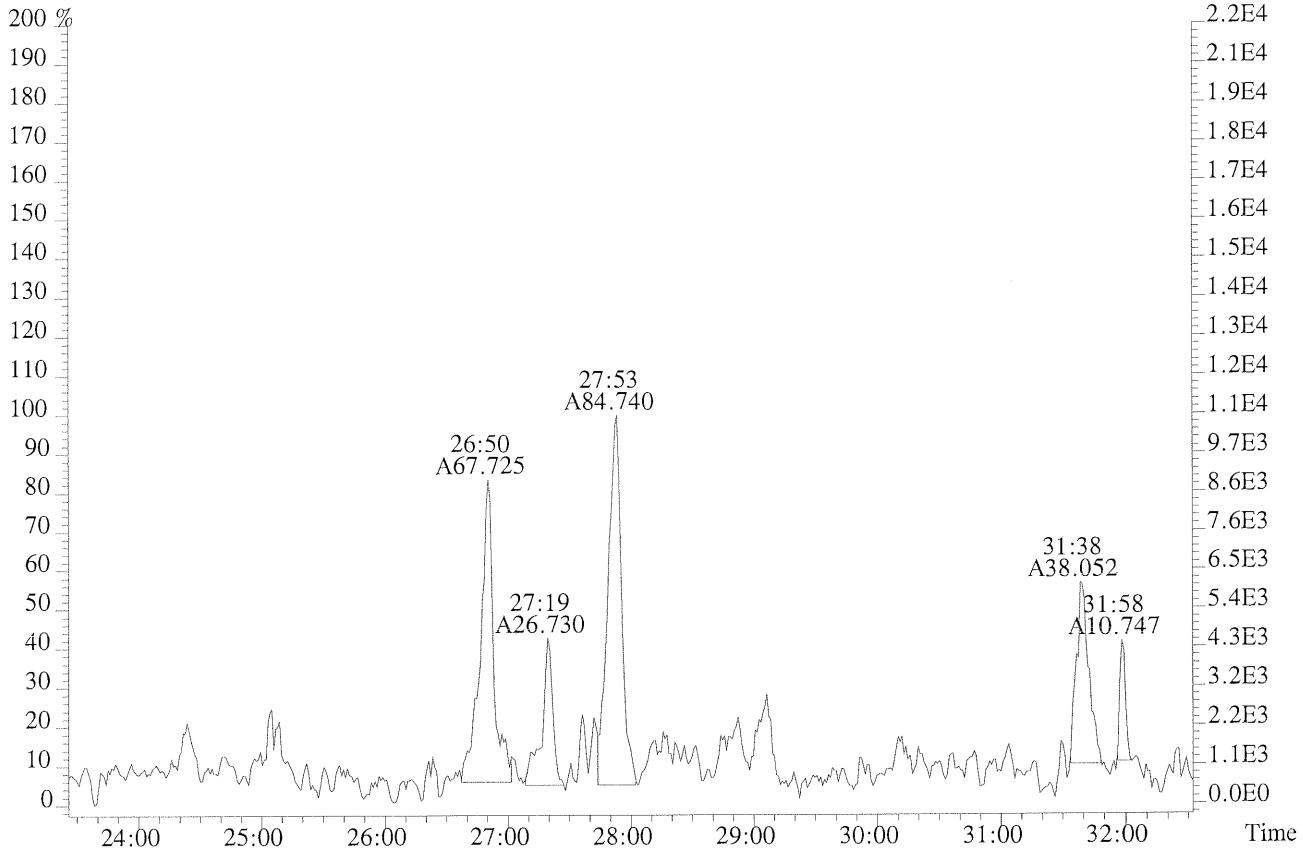
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5192.0,1.00%,F,T)



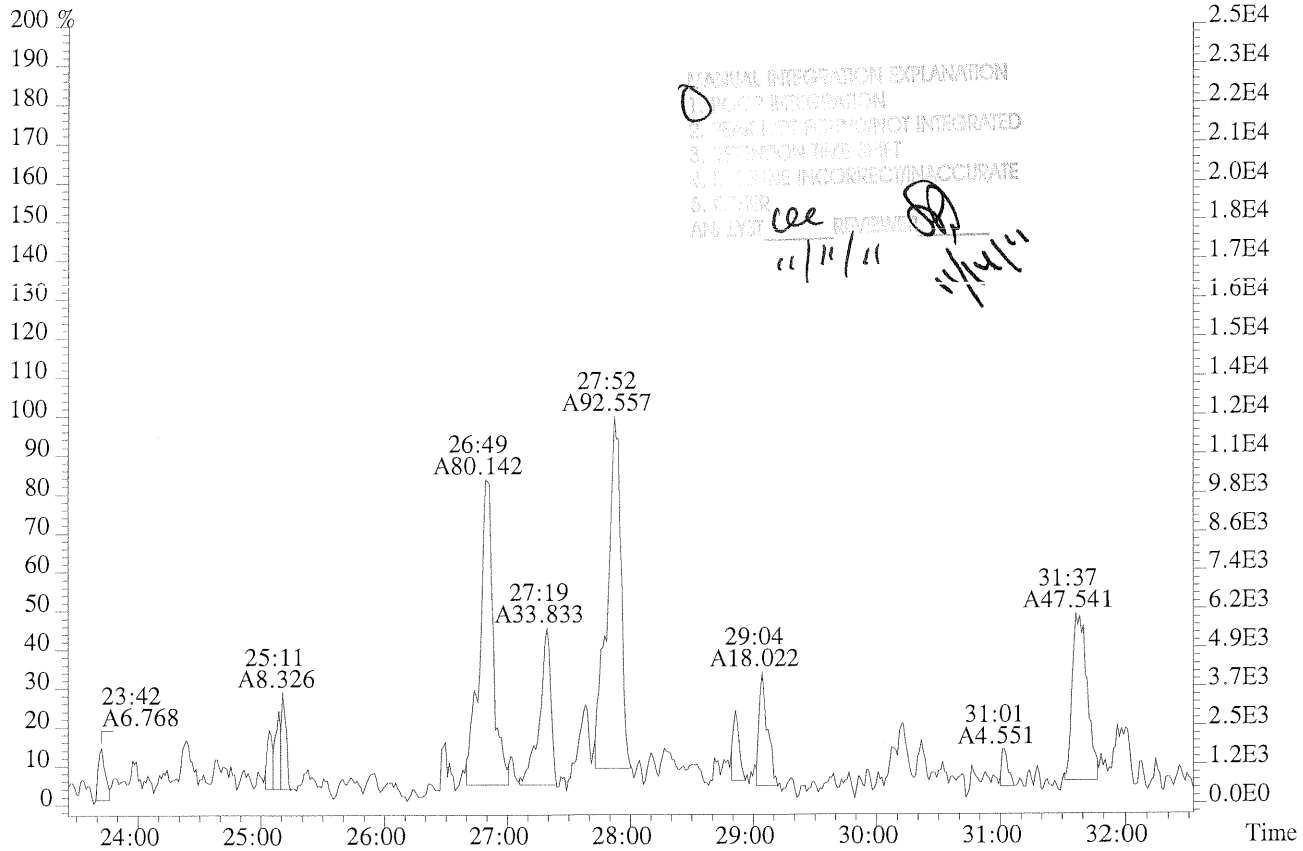
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



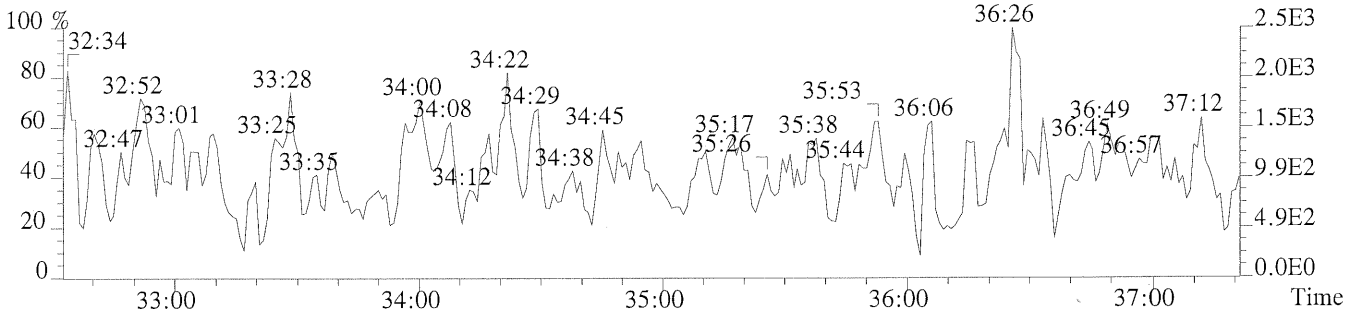
File:U142059 #1-582 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-003 B4-SSBlank-
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



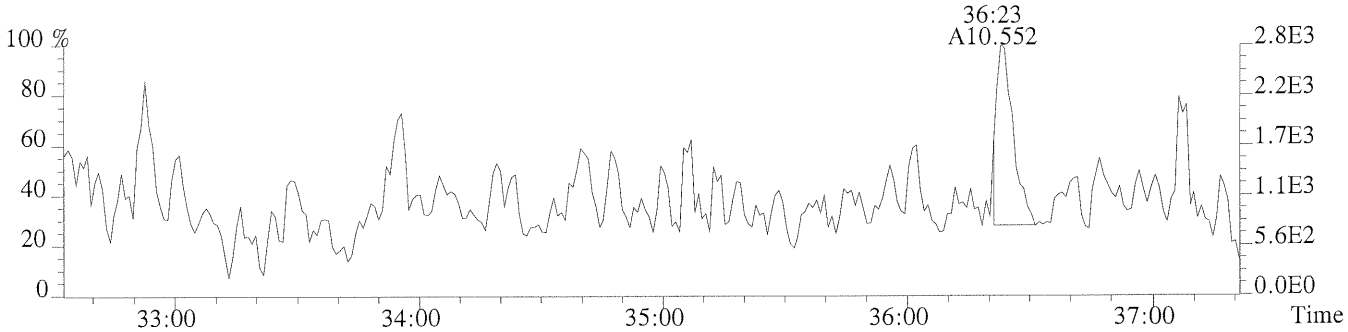
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



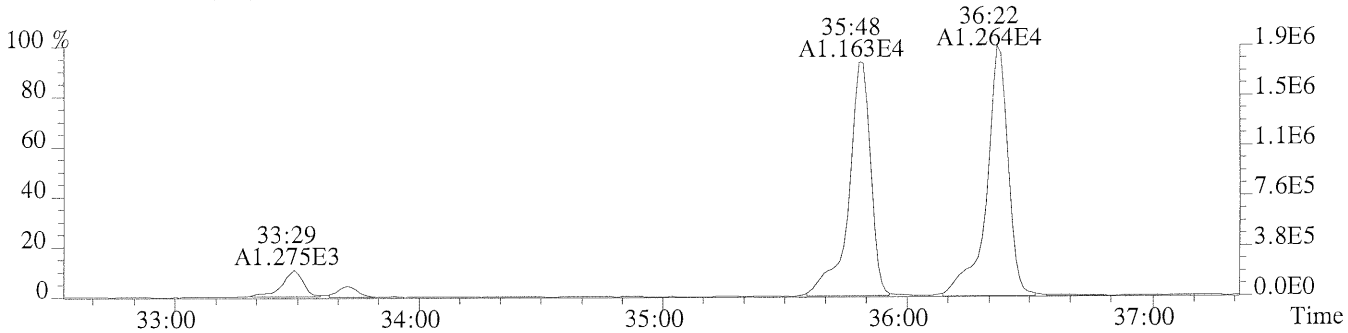
File:U142059 #1-308 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1376.0,1.00%,F,T)



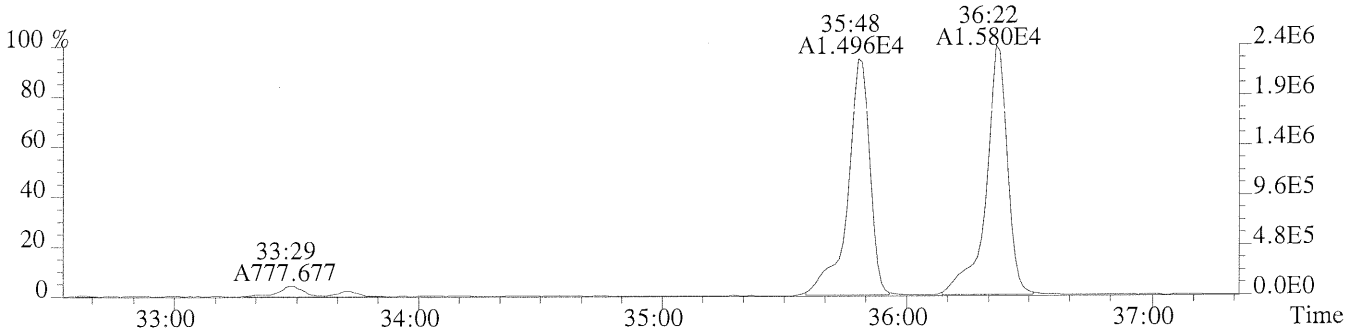
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1336.0,1.00%,F,T)



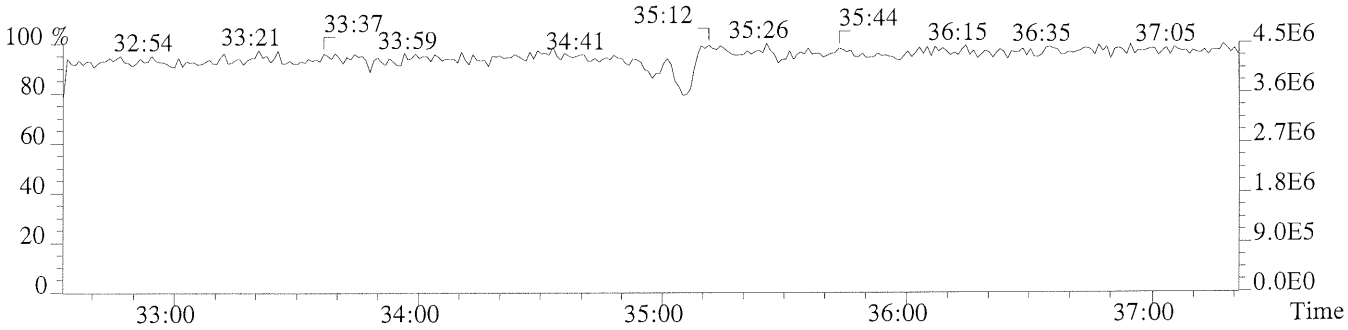
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5308.0,1.00%,F,T)



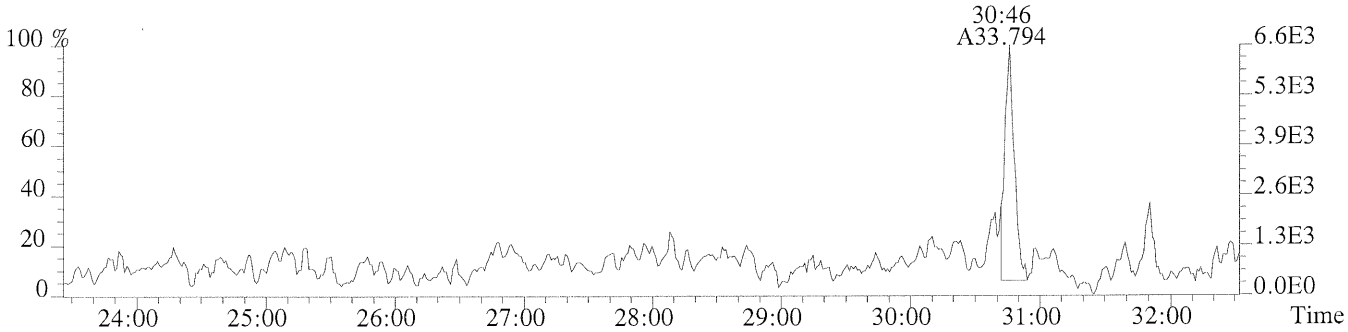
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4692.0,1.00%,F,T)



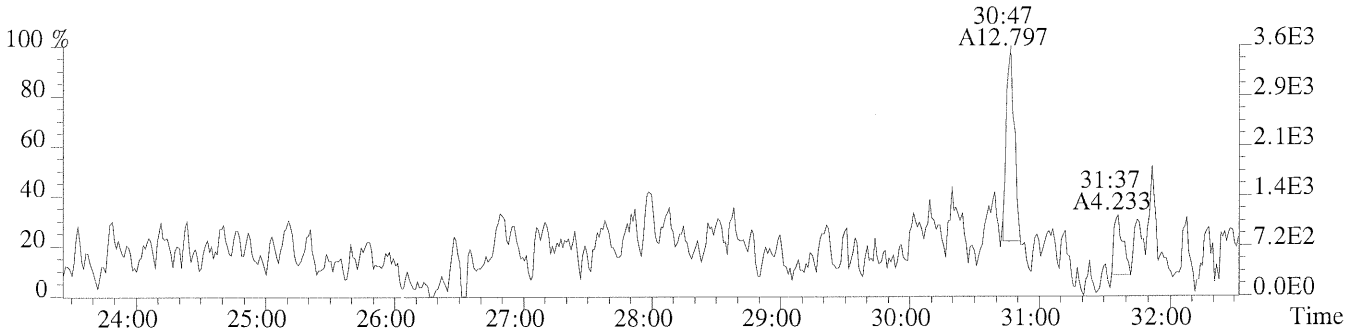
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



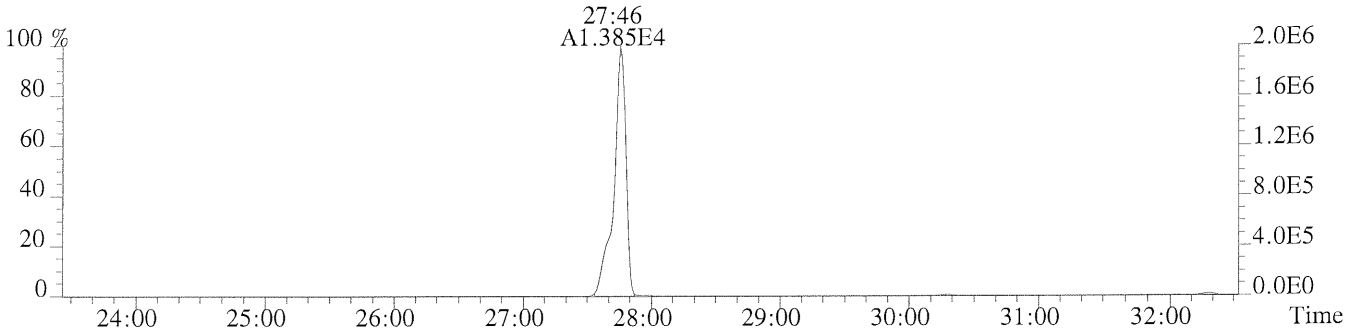
File:U142059 #1-582 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



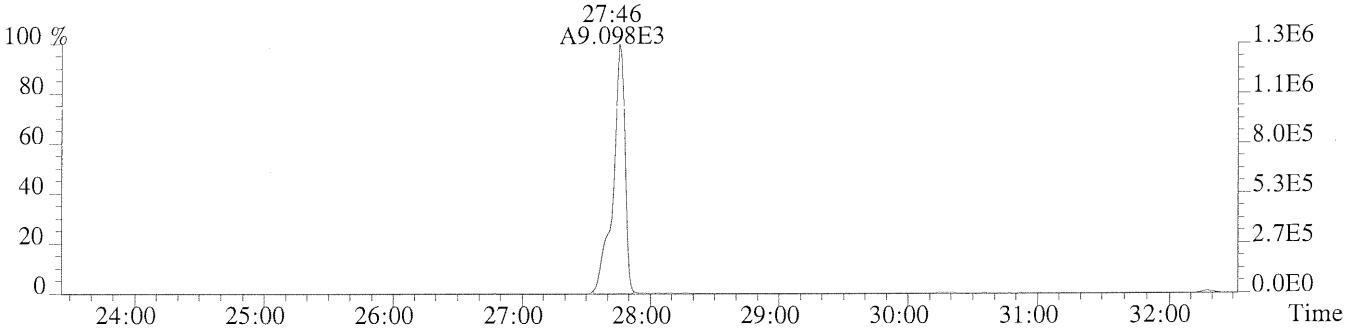
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,816.0,1.00%,F,T)



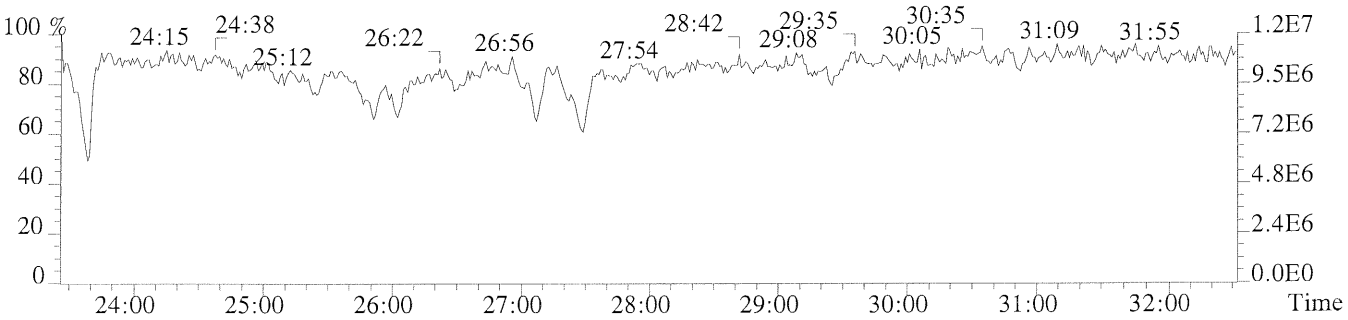
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)



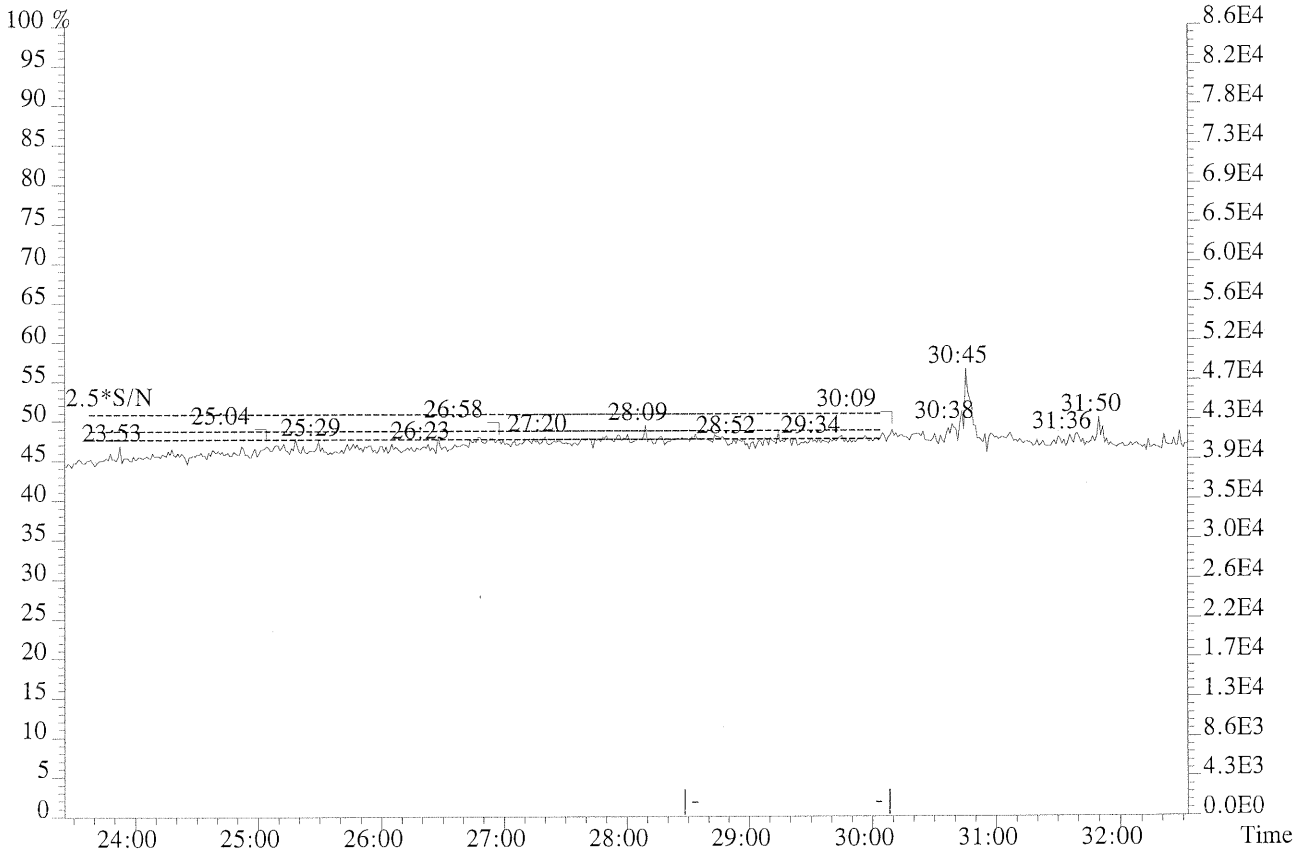
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)



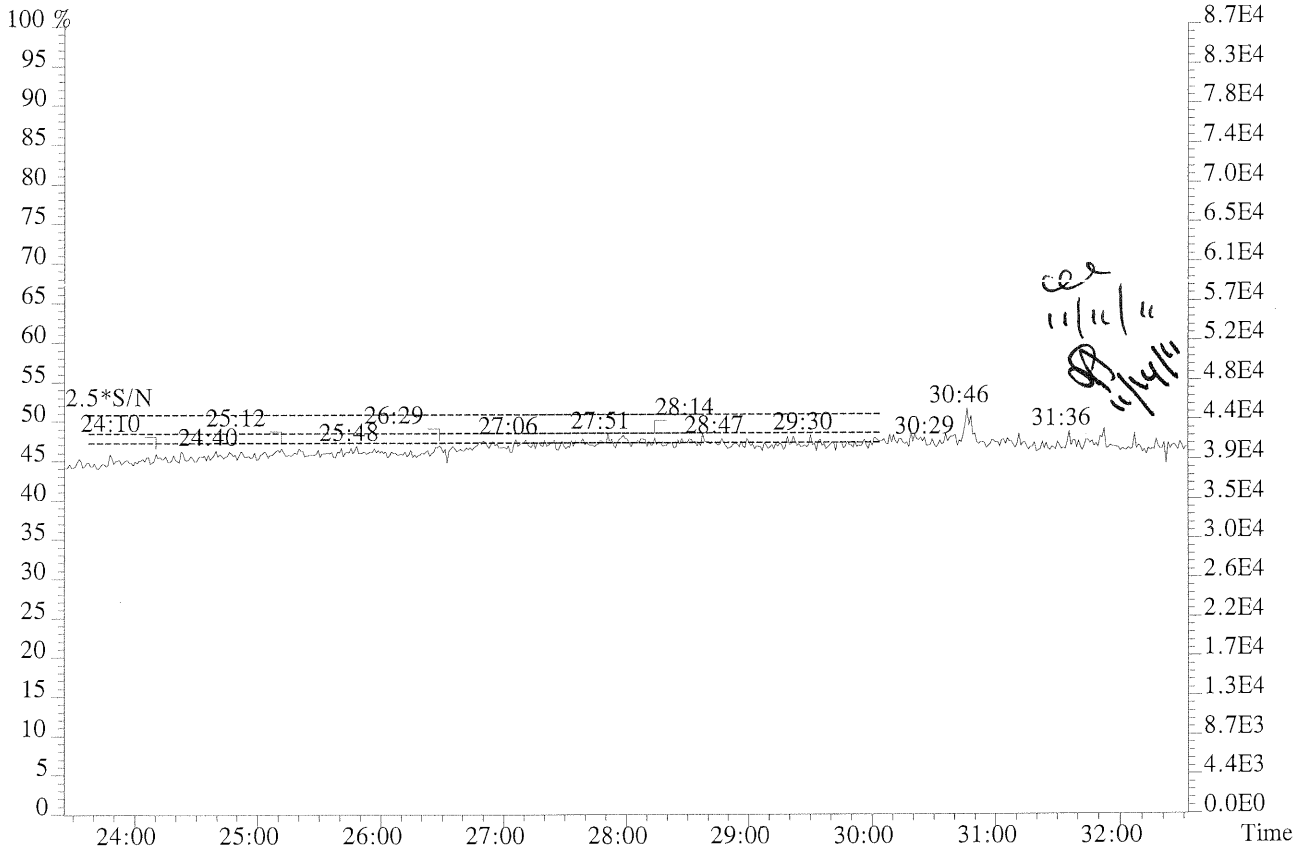
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142059 #1-582 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-003 B4-SSBlank-
325.8804 F:3



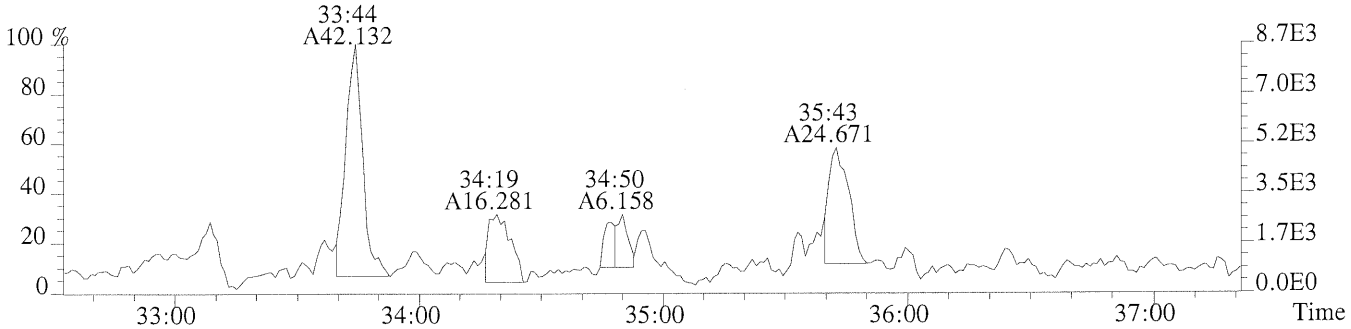
327.8775 F:3



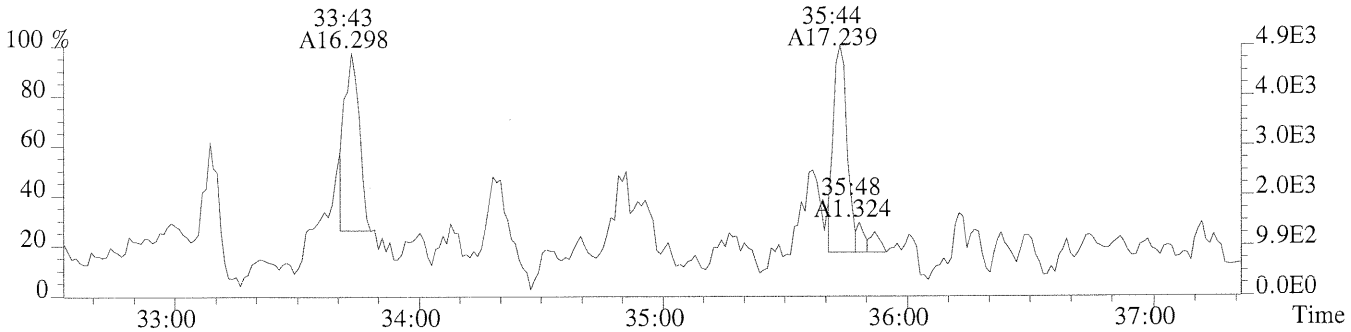
11/14/11

File:U142059 #1-308 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-

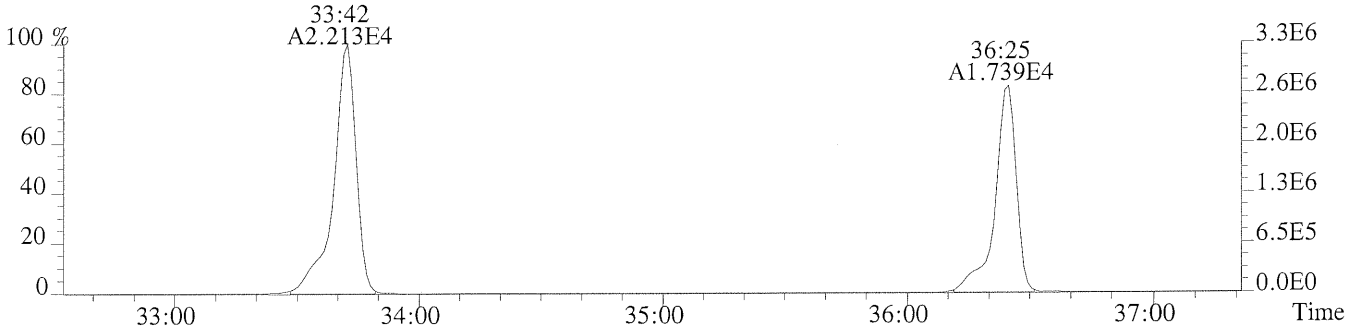
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)



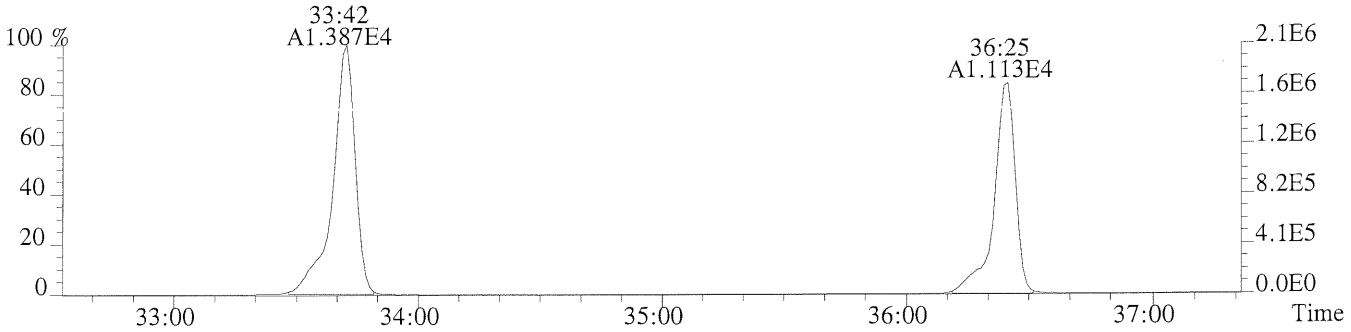
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)



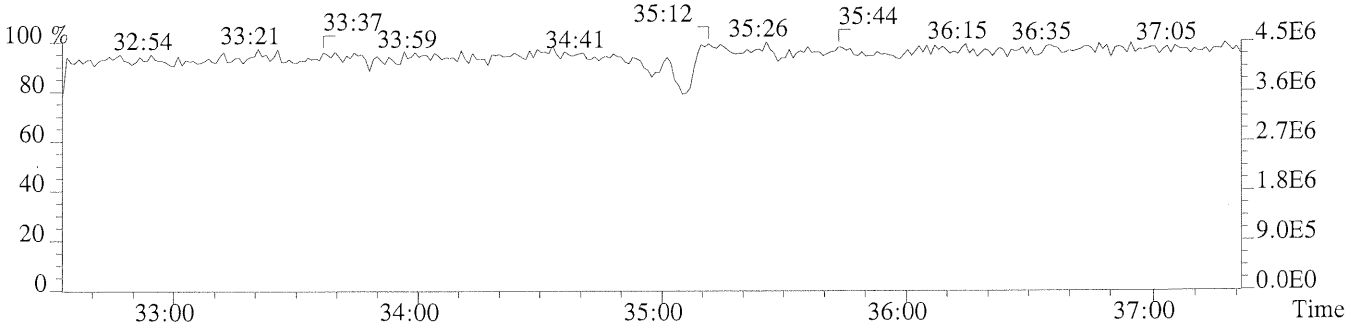
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1500.0,1.00%,F,T)



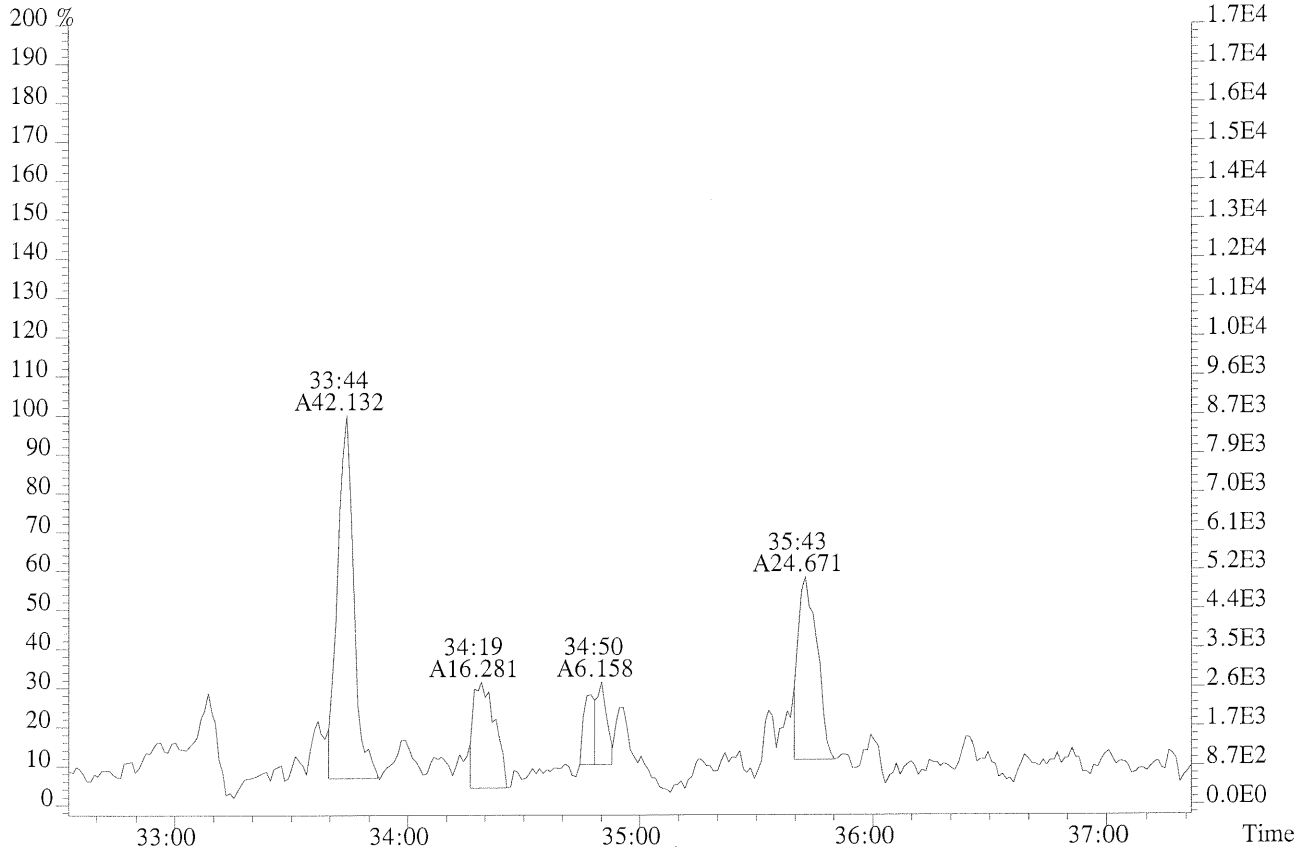
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1304.0,1.00%,F,T)



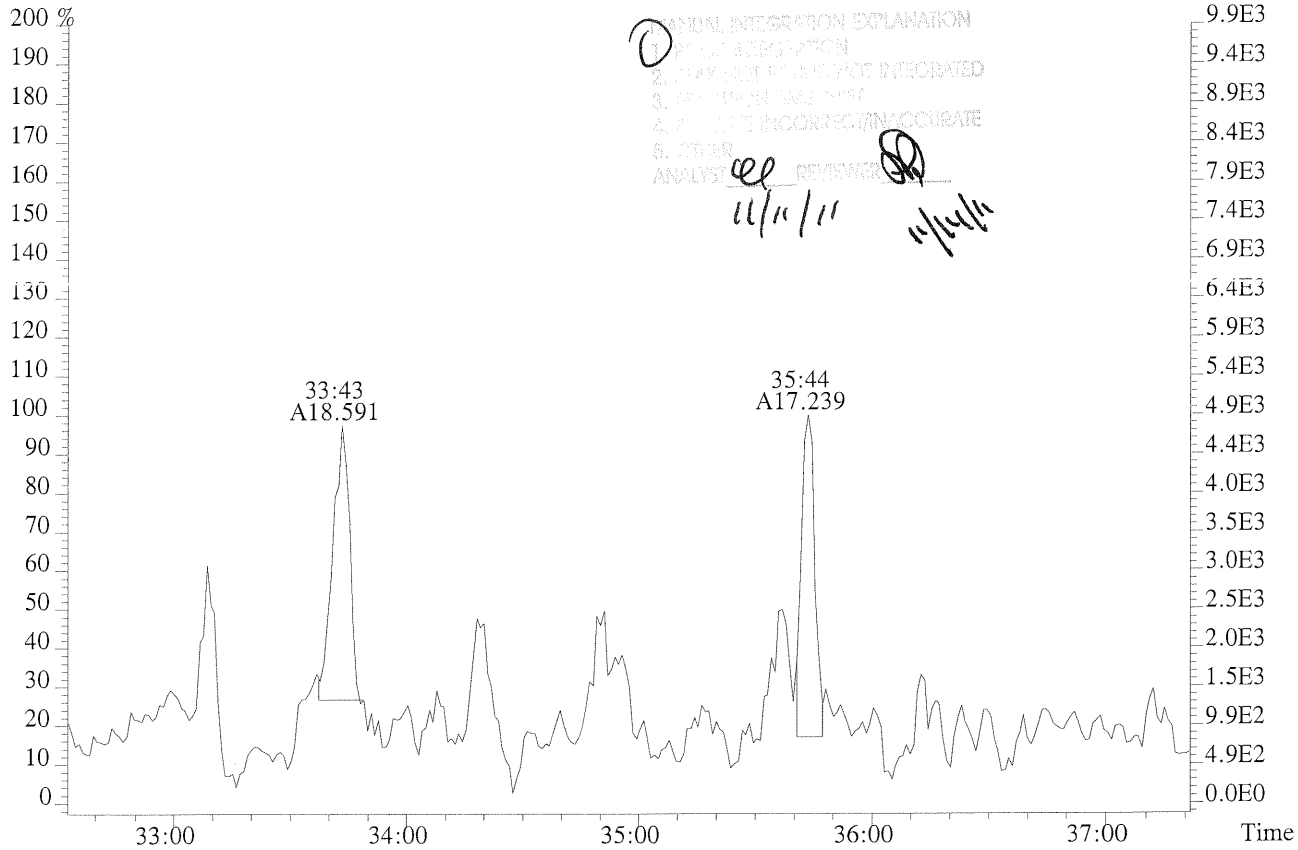
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142059 #1-308 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-003 B4-SSBlank-
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)

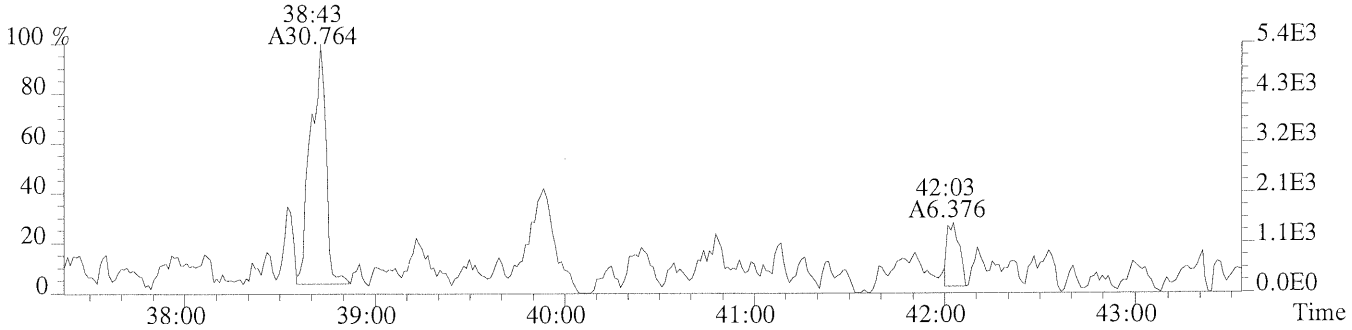


327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)

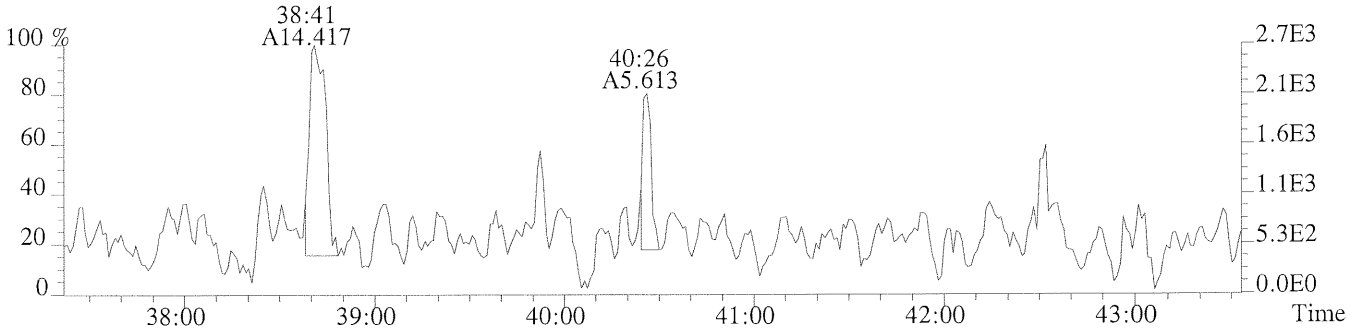


File:U142059 #1-396 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-

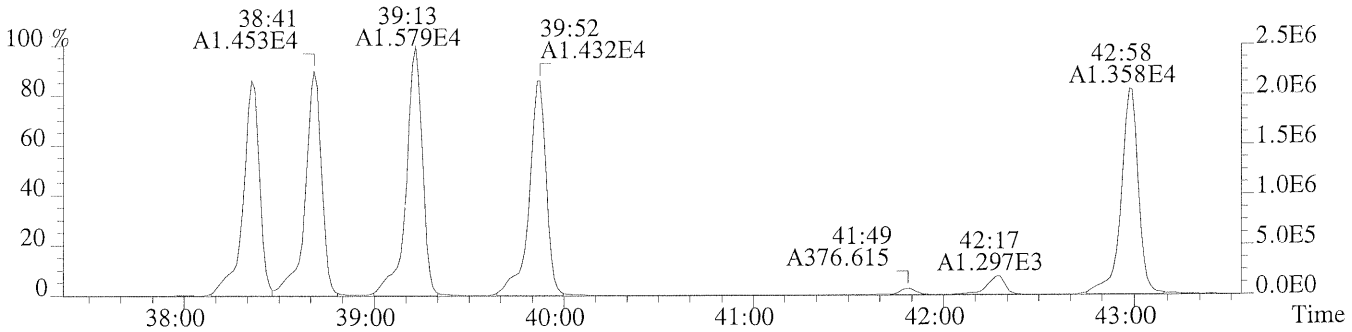
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,564.0,1.00%,F,T)



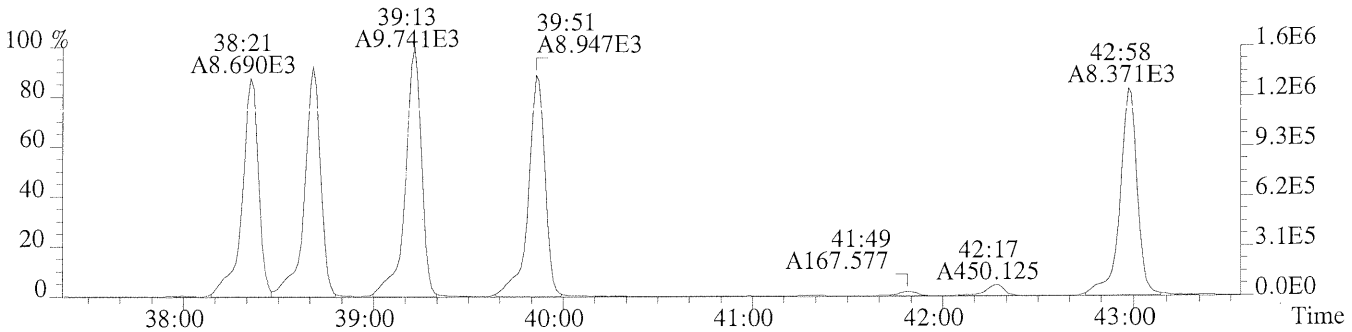
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,780.0,1.00%,F,T)



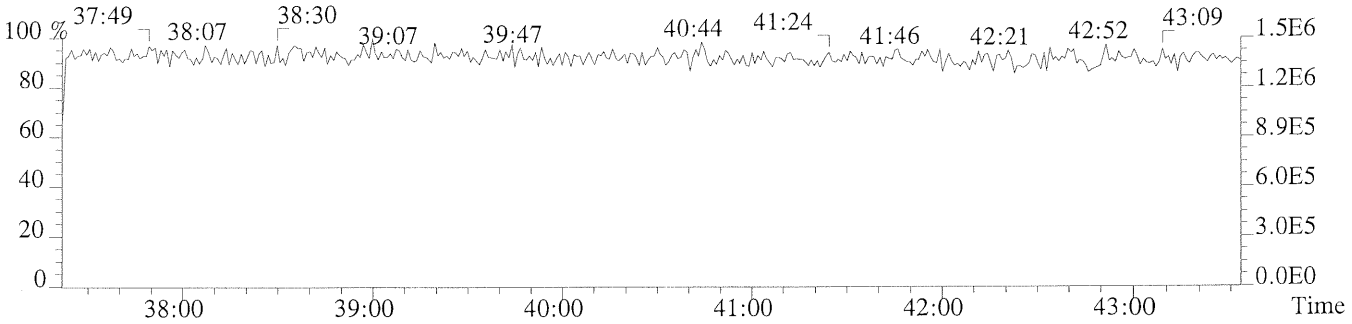
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,548.0,1.00%,F,T)



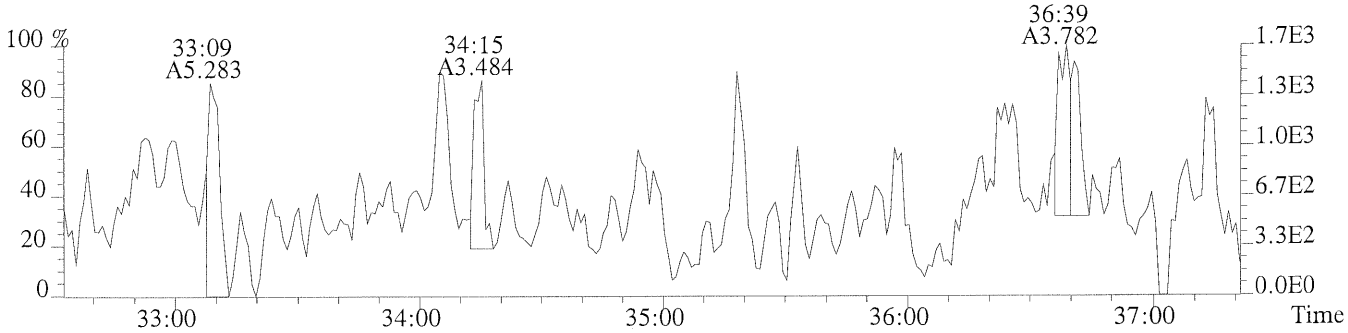
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1856.0,1.00%,F,T)



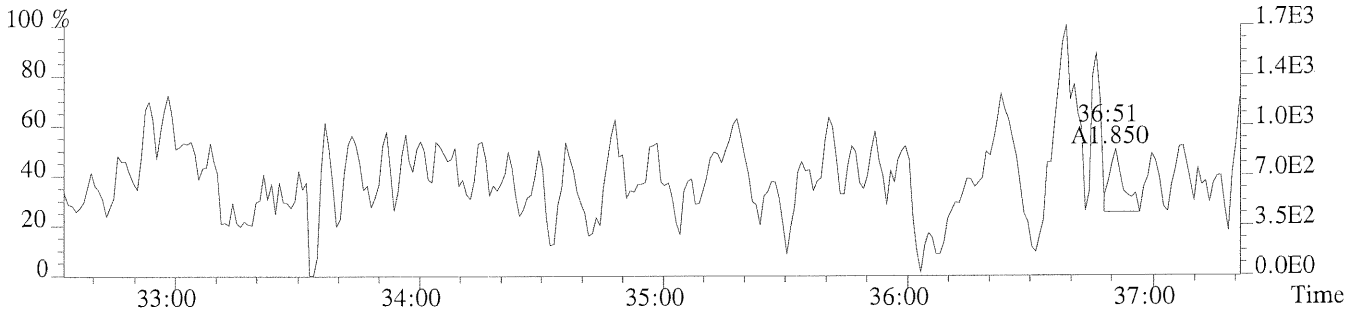
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



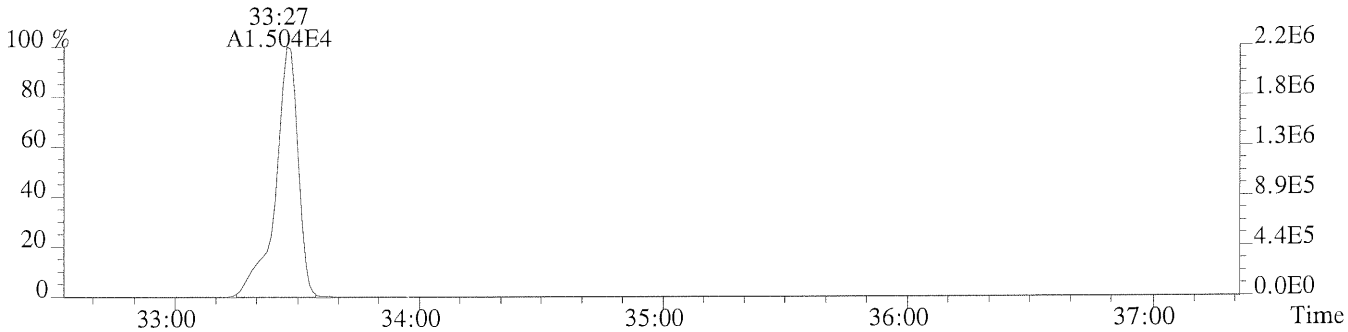
File:U142059 #1-308 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,704.0,1.00%,F,T)



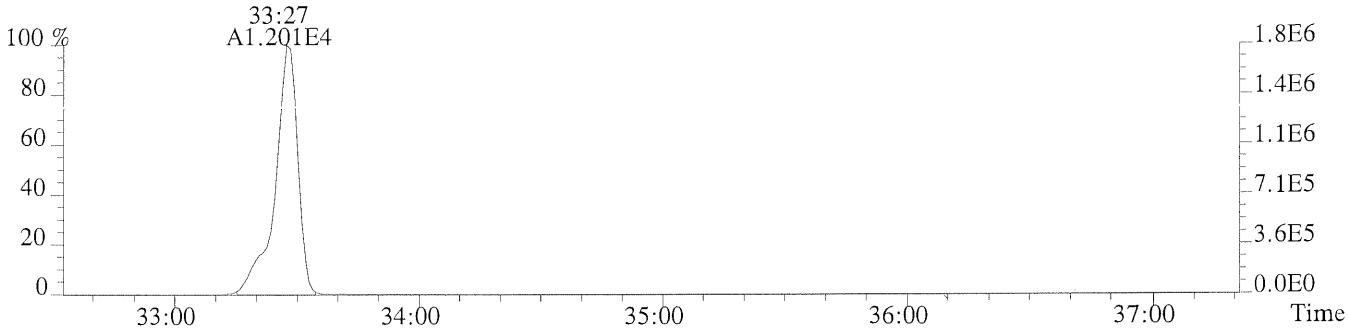
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)



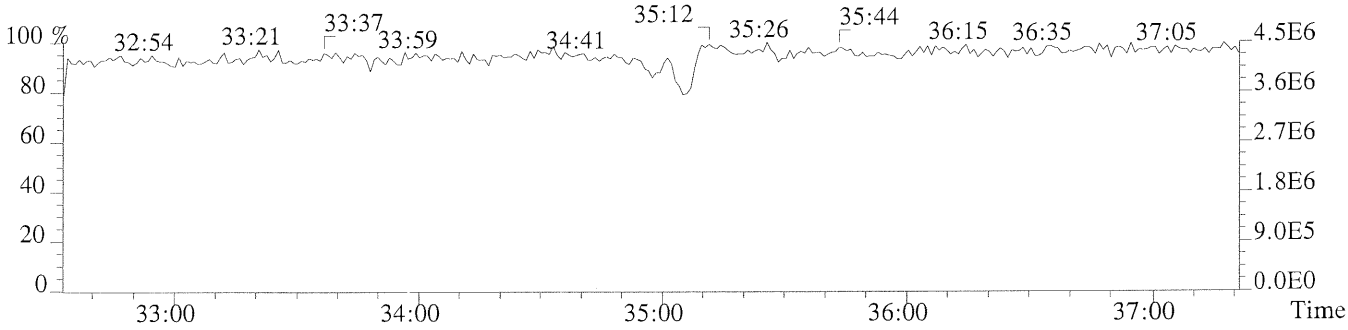
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1044.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1292.0,1.00%,F,T)

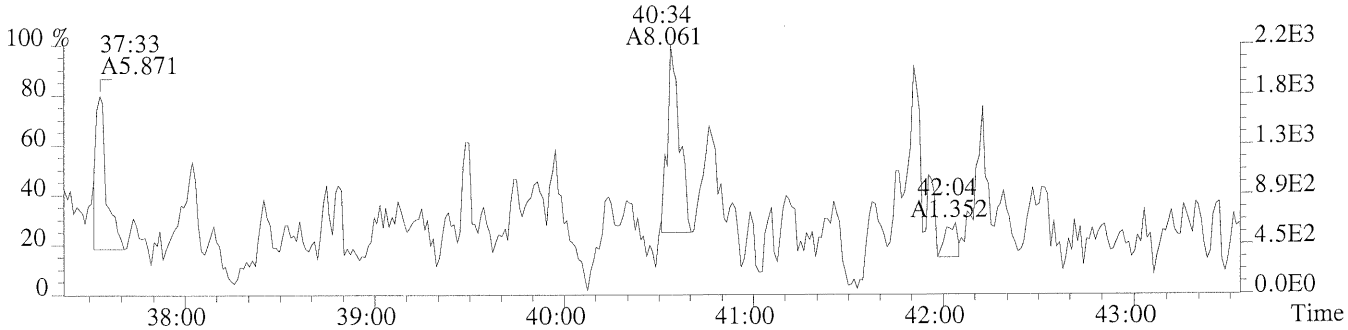


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

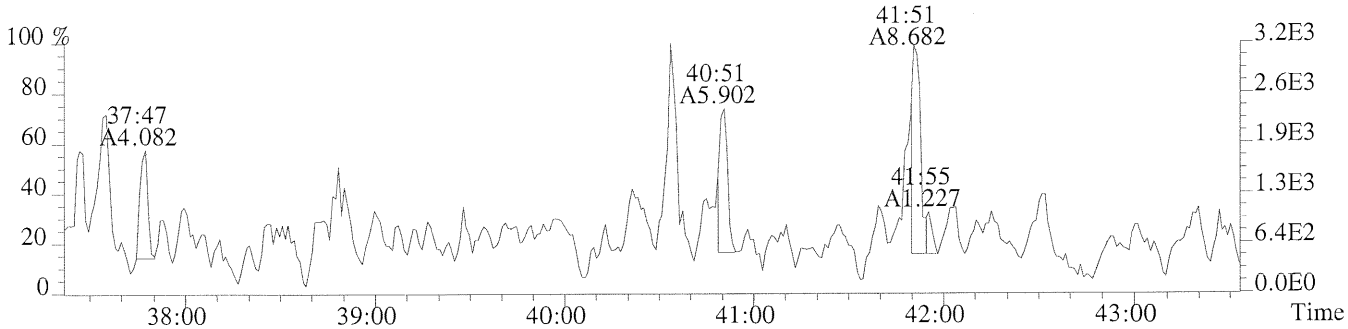


File:U142059 #1-396 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-

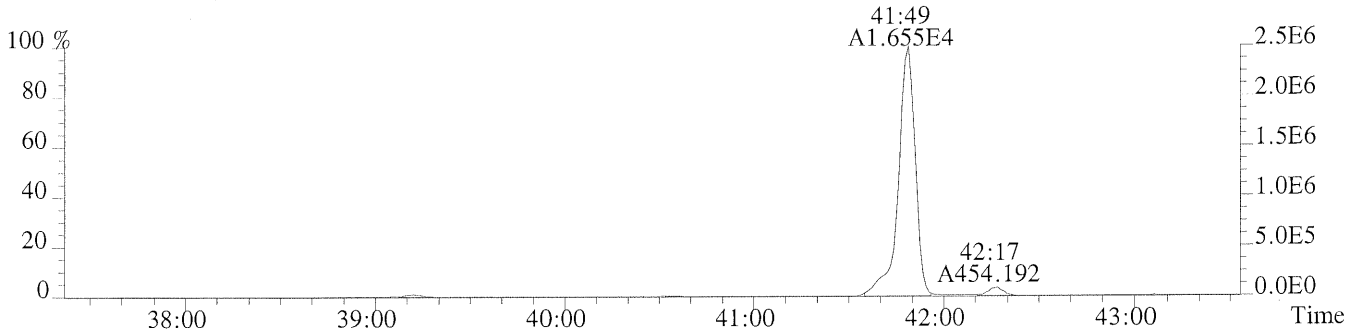
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



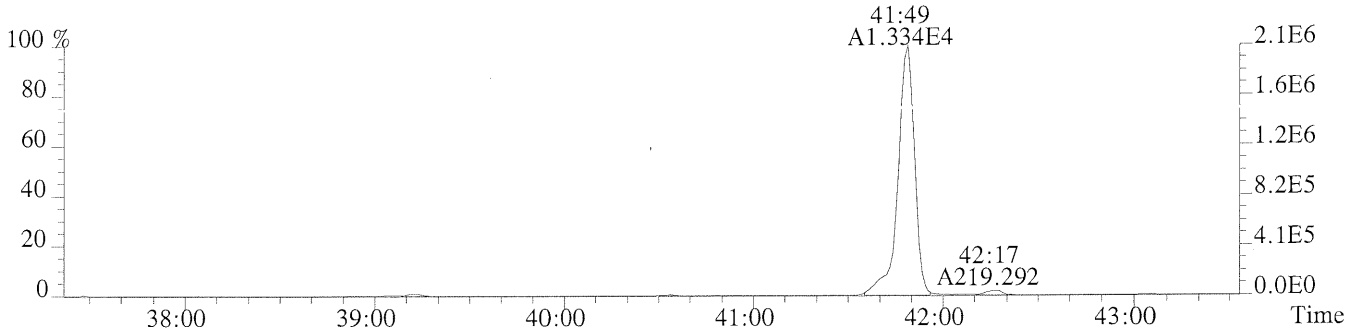
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)



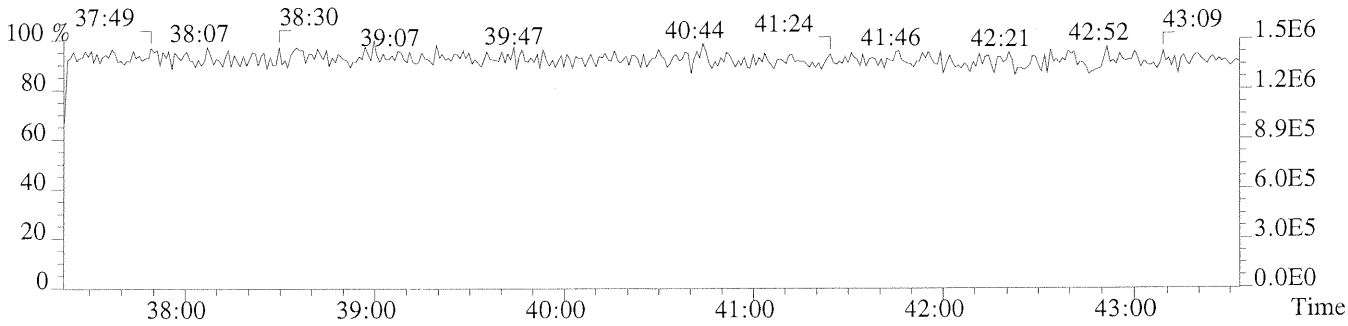
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1316.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1236.0,1.00%,F,T)

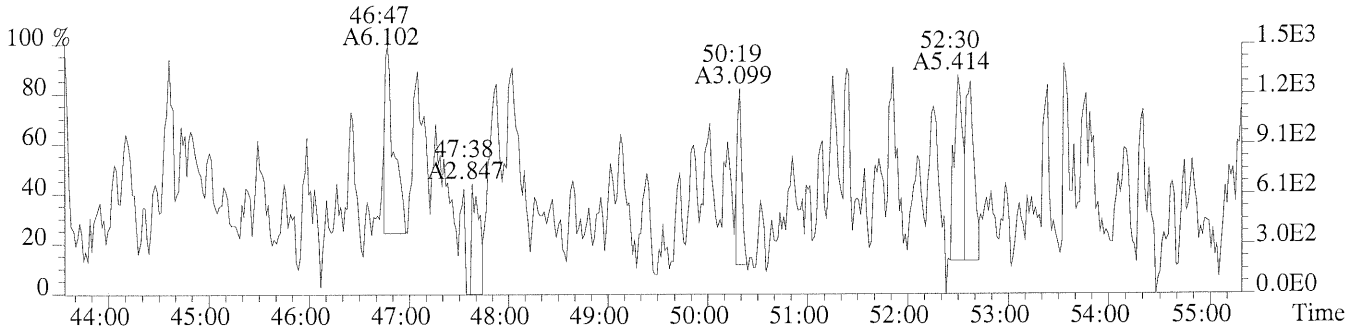


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

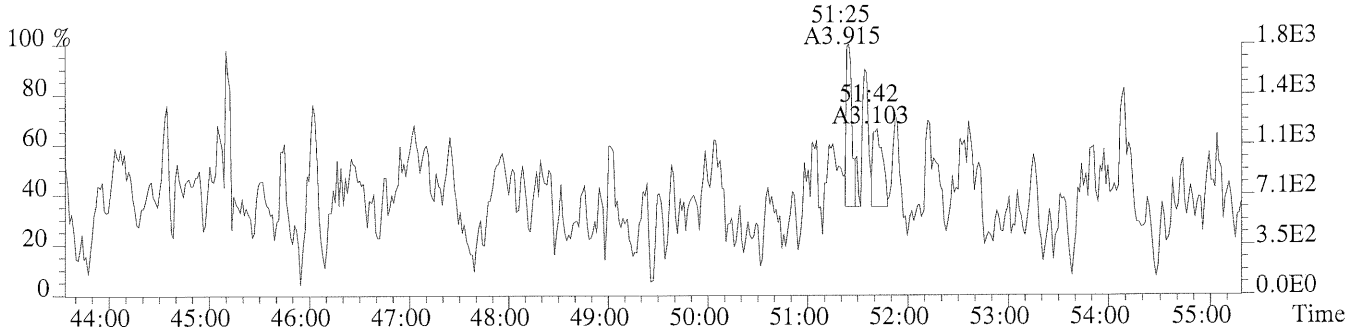


File:U142059 #1-582 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-

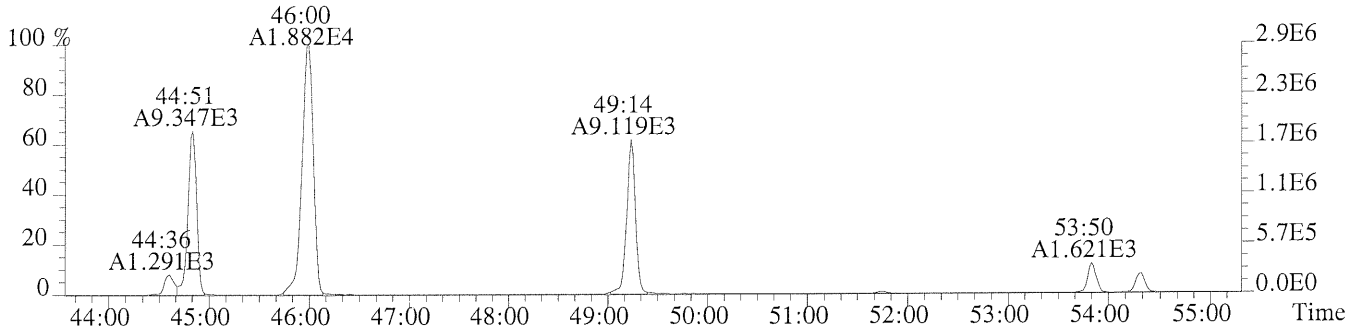
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,668.0,1.00%,F,T)



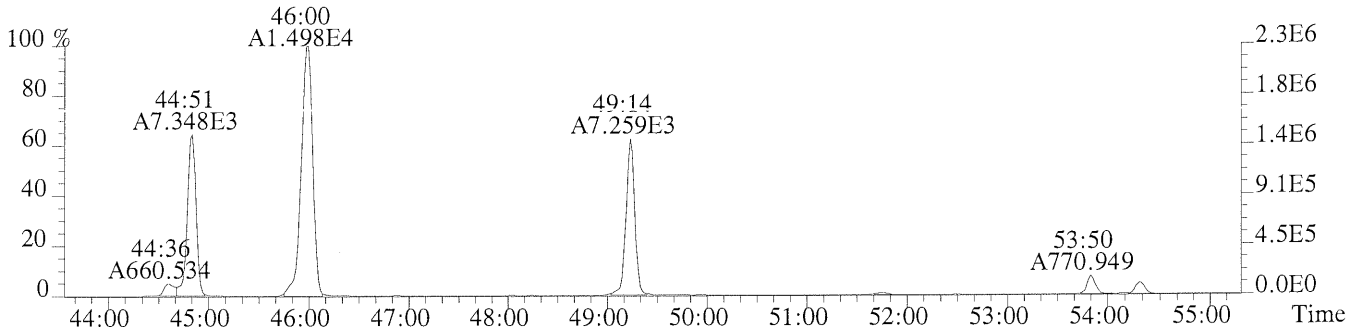
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



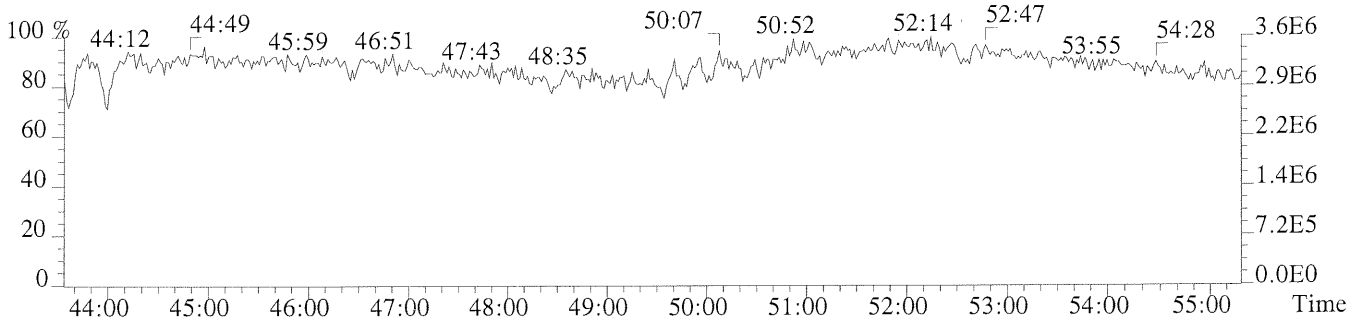
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



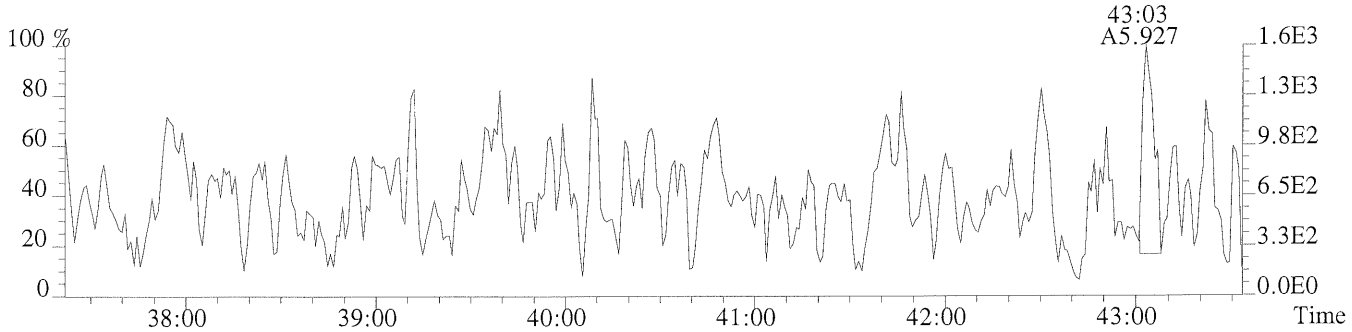
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2636.0,1.00%,F,T)



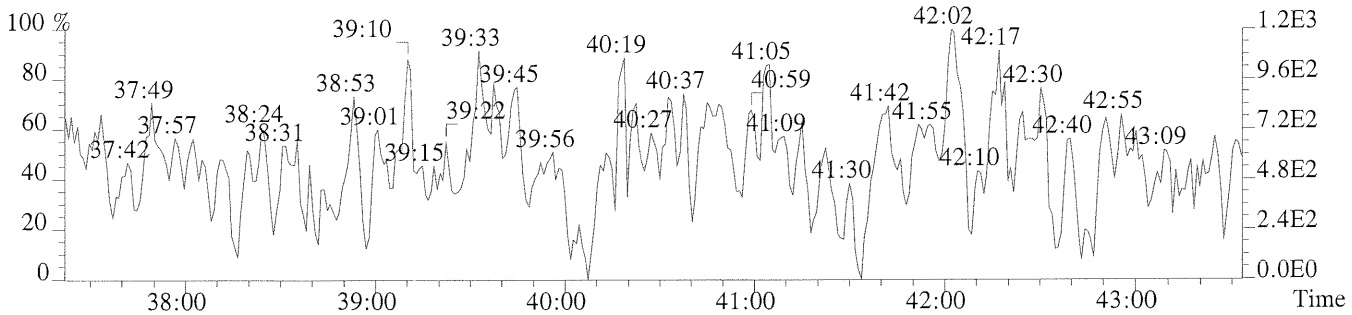
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



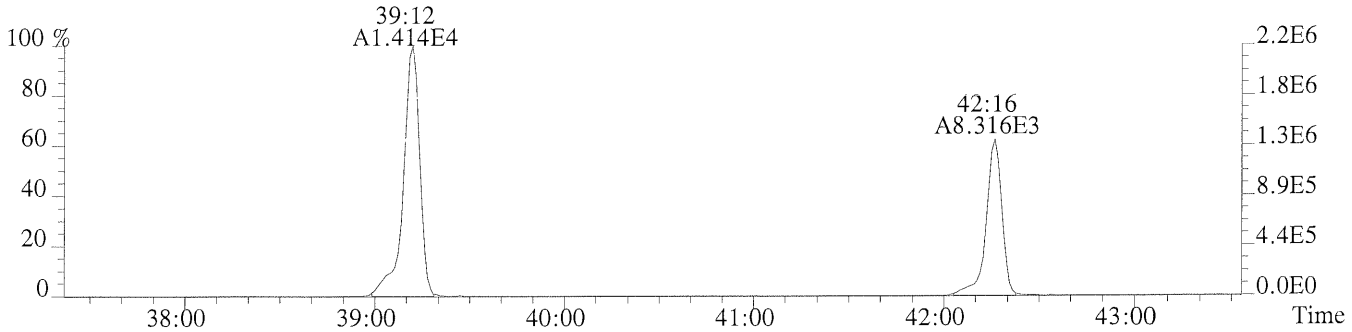
File:U142059 #1-396 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,744.0,1.00%,F,T)



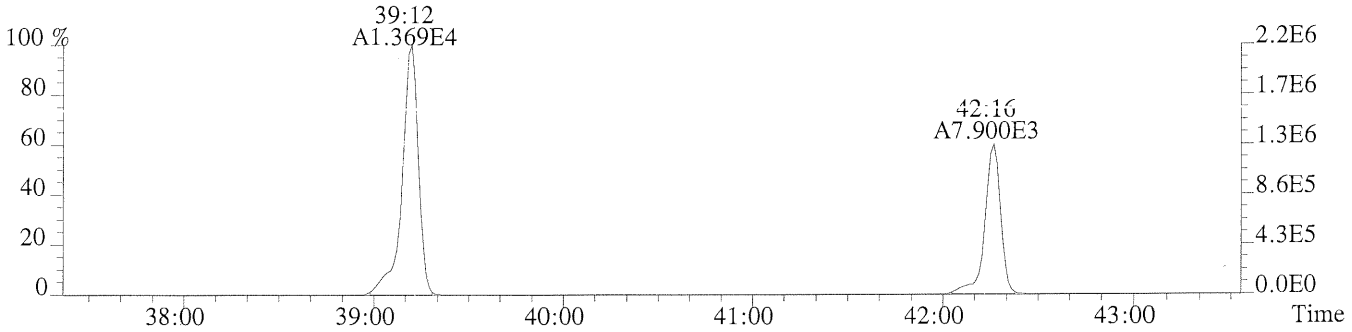
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,704.0,1.00%,F,T)



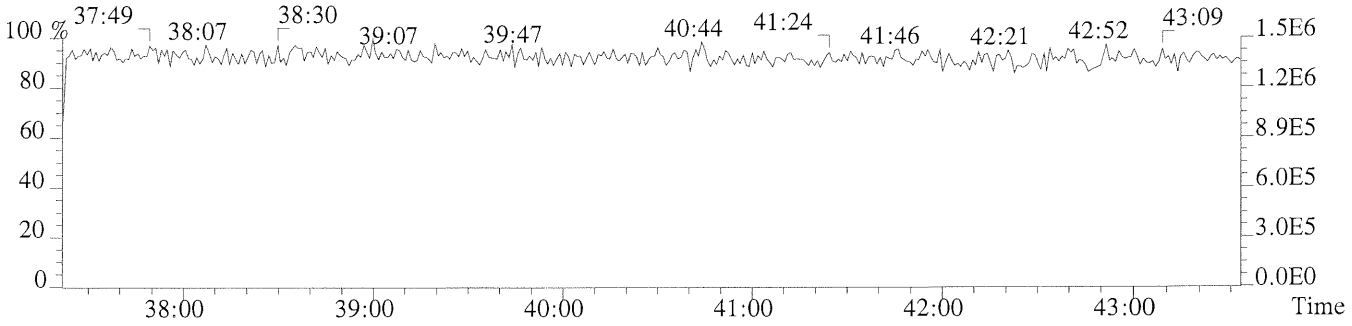
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)



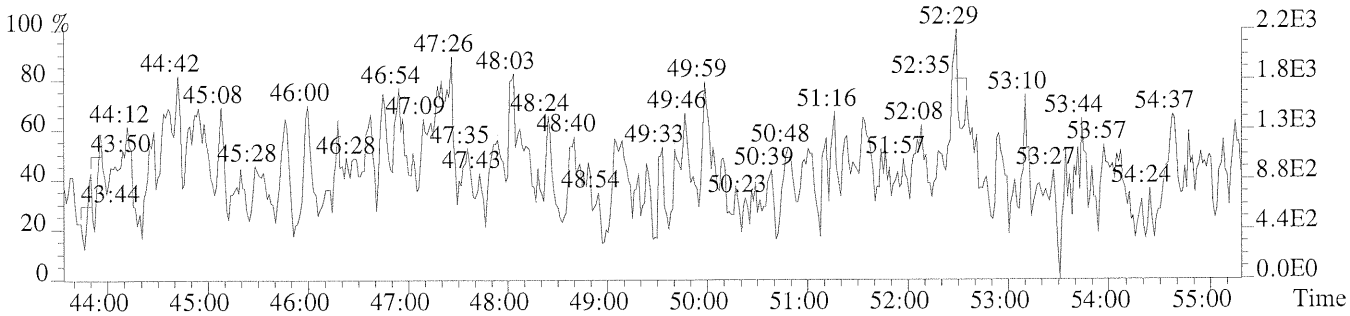
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,528.0,1.00%,F,T)



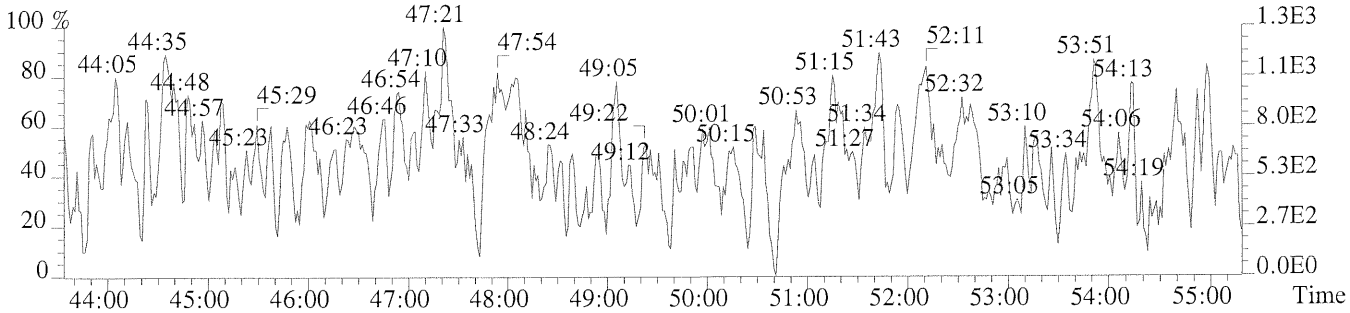
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



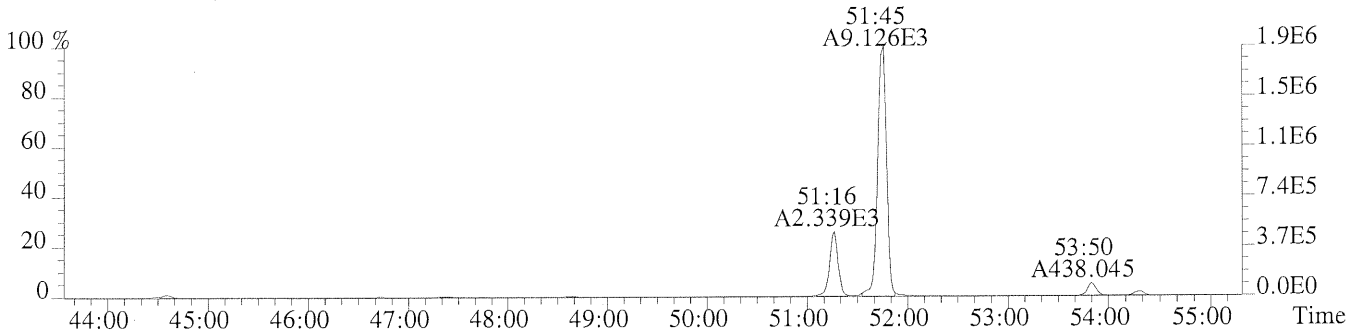
File:U142059 #1-582 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)



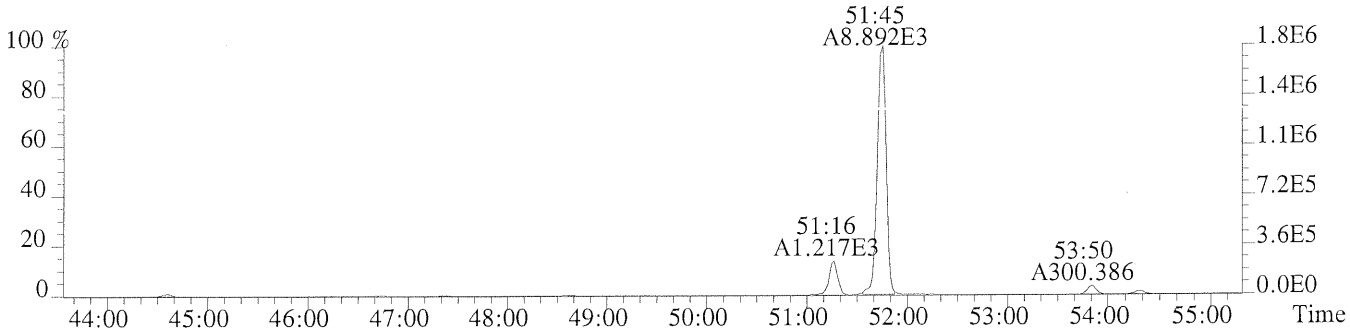
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



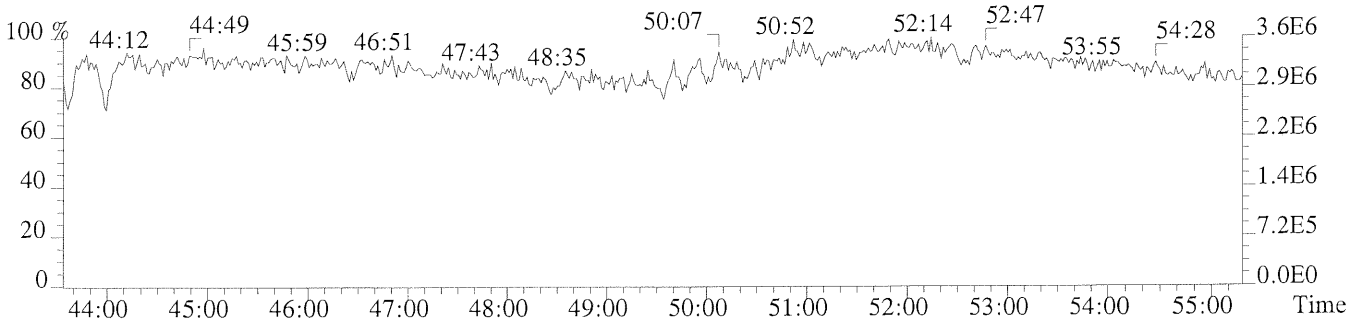
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,912.0,1.00%,F,T)



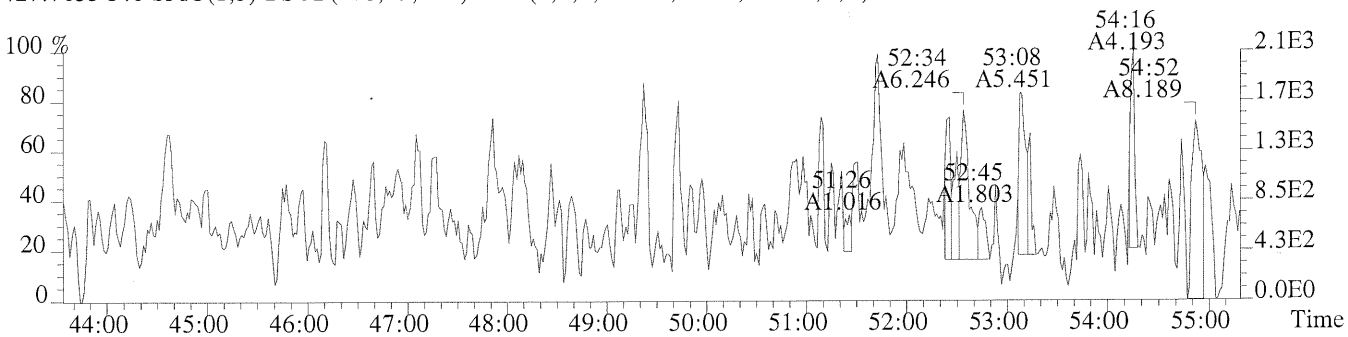
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,912.0,1.00%,F,T)



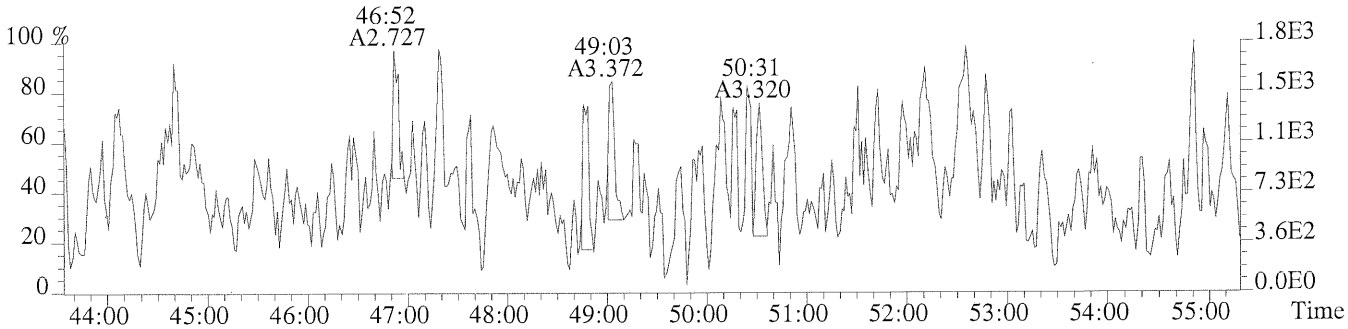
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



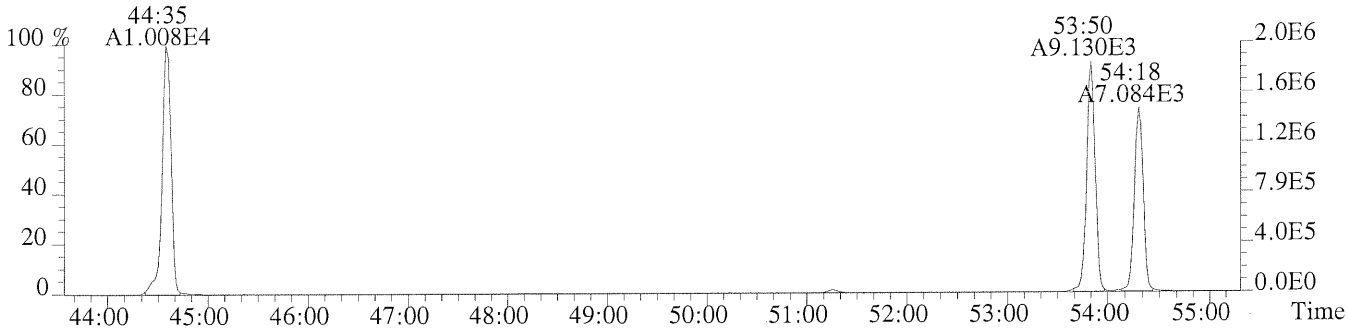
File:U142059 #1-582 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,816.0,1.00%,F,T)



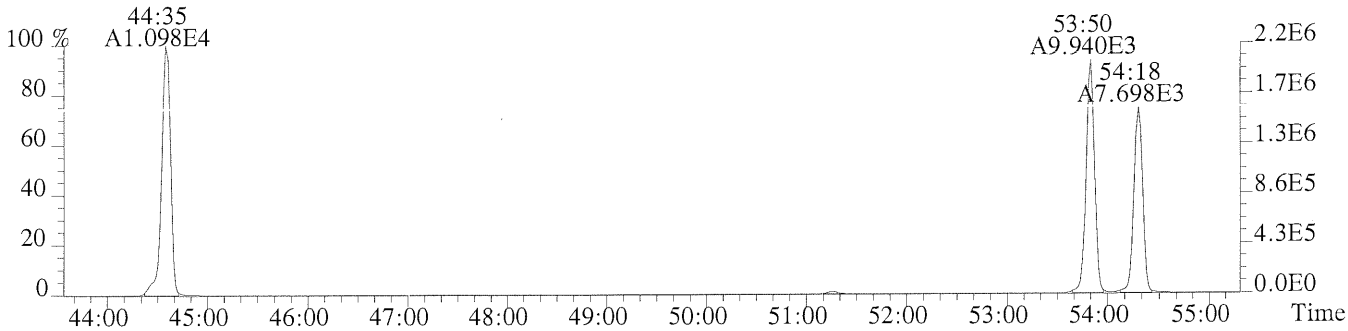
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



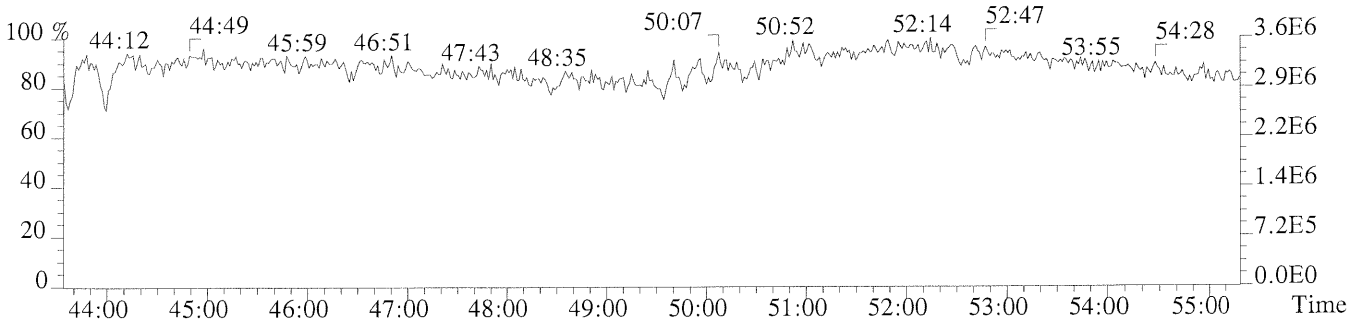
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



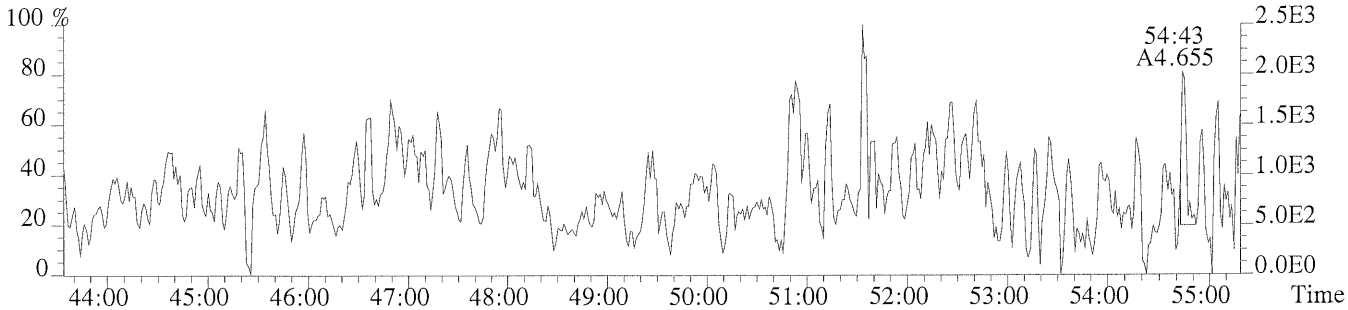
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)



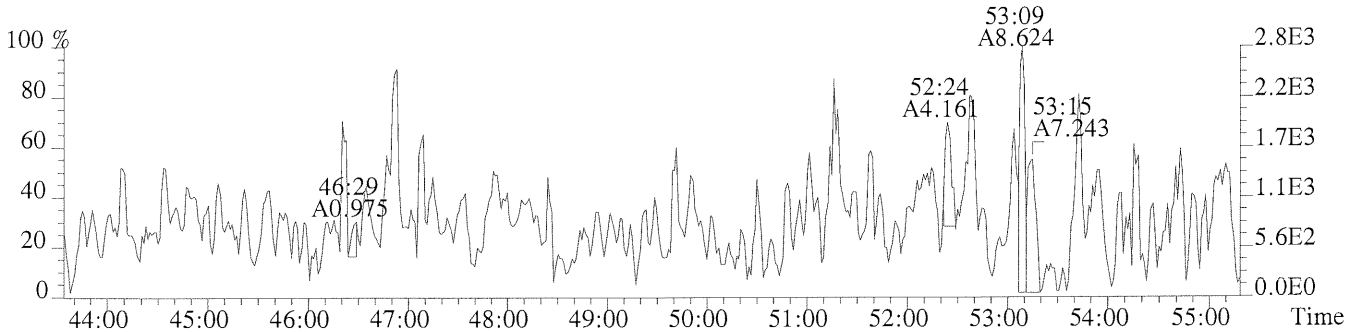
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



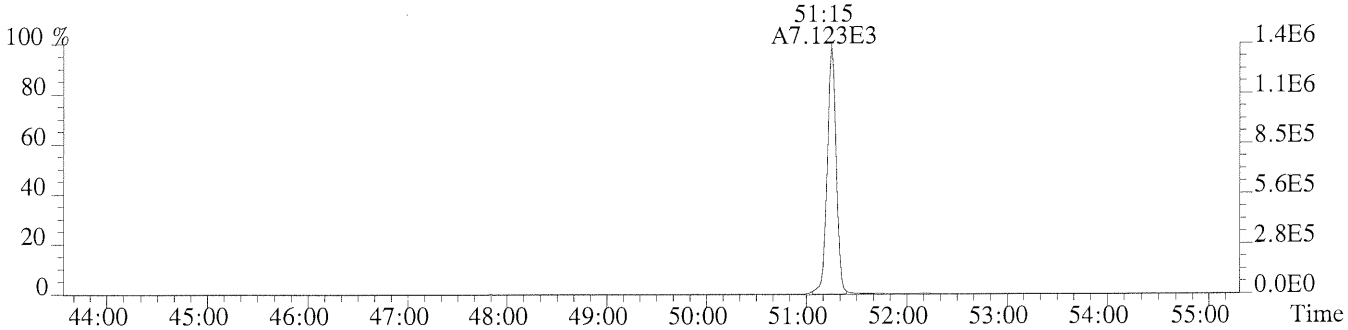
File:U142059 #1-582 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)



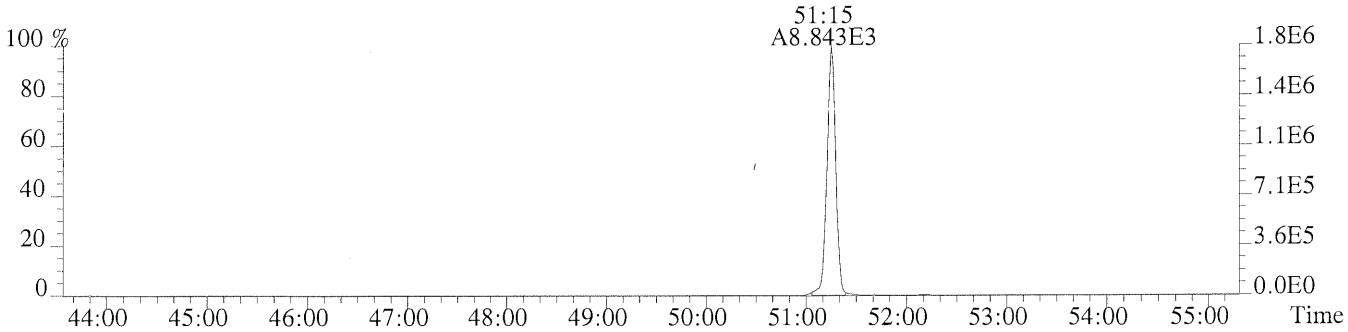
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



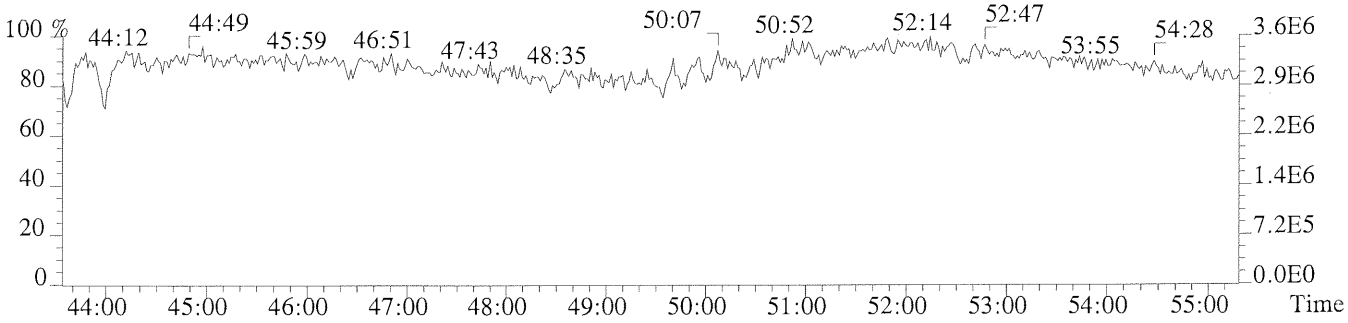
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)



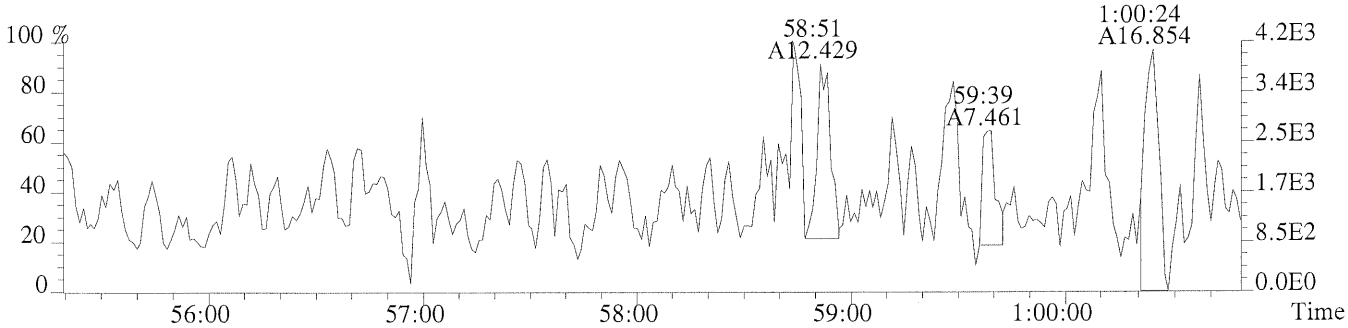
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,732.0,1.00%,F,T)



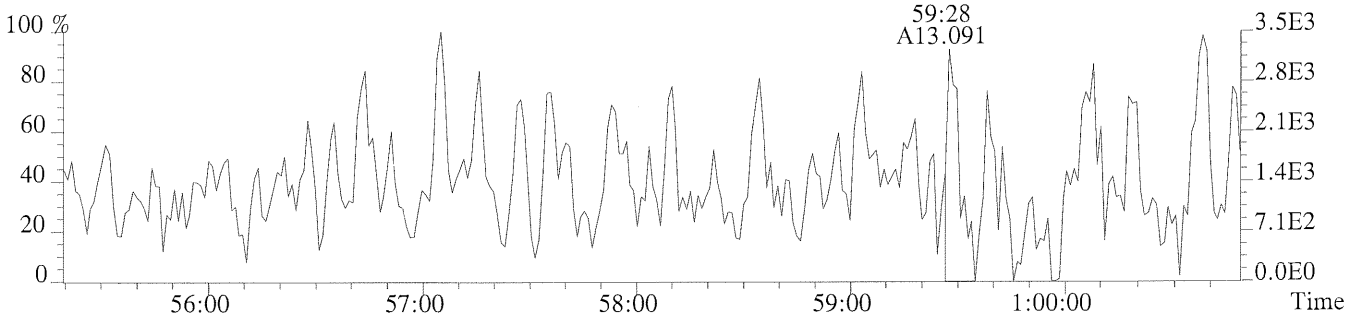
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



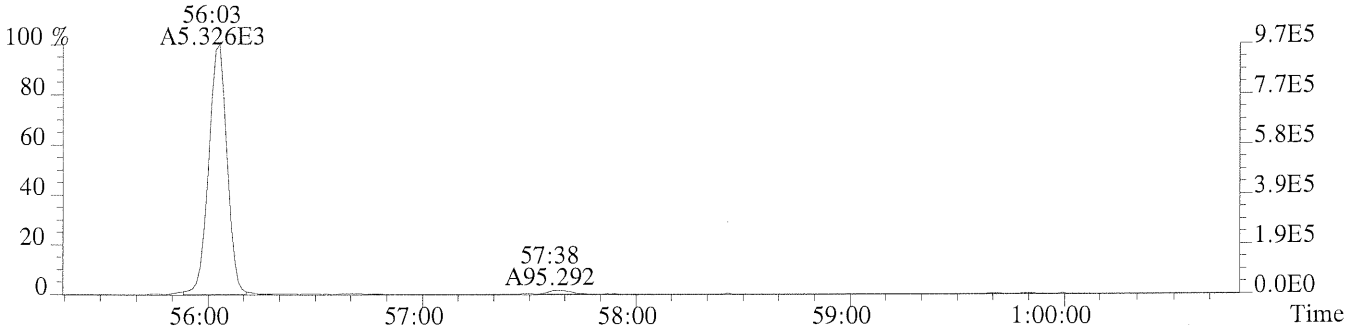
File:U142059 #1-310 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1872.0,1.00%,F,T)



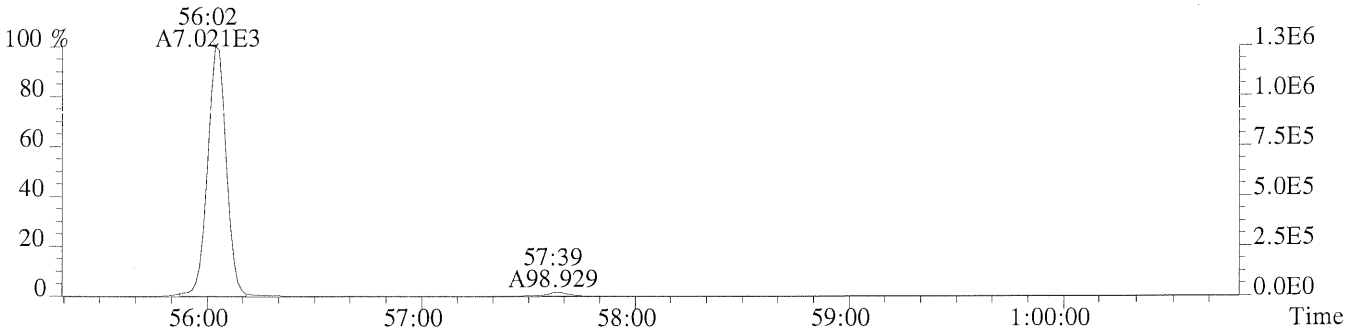
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1648.0,1.00%,F,T)



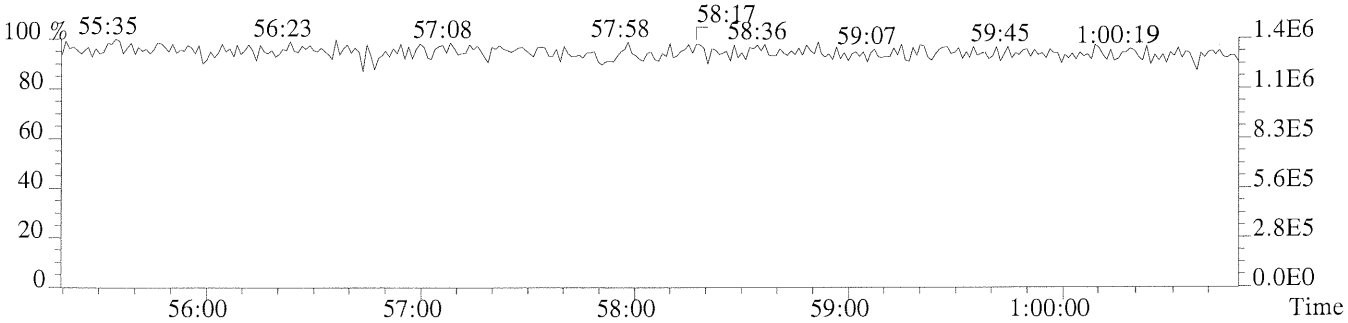
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



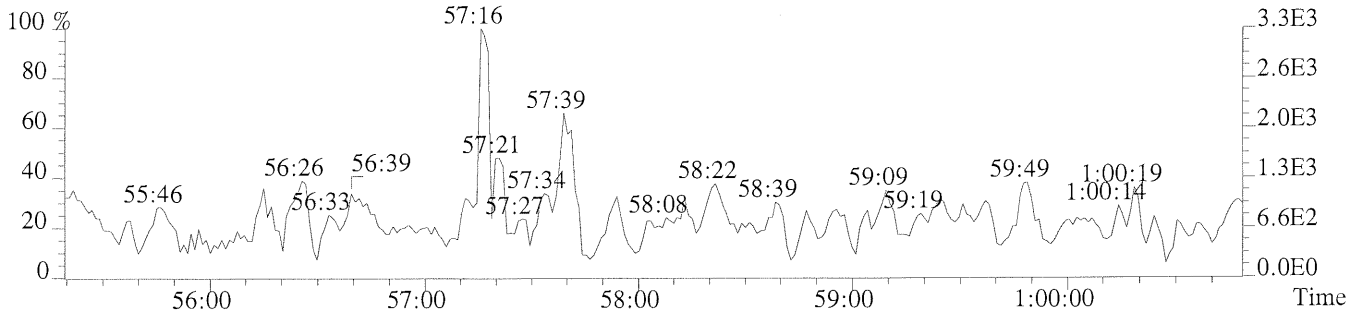
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



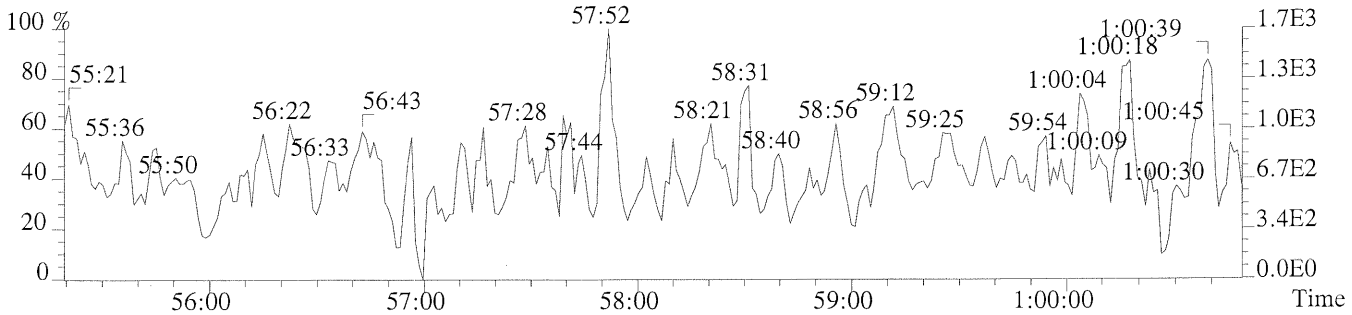
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



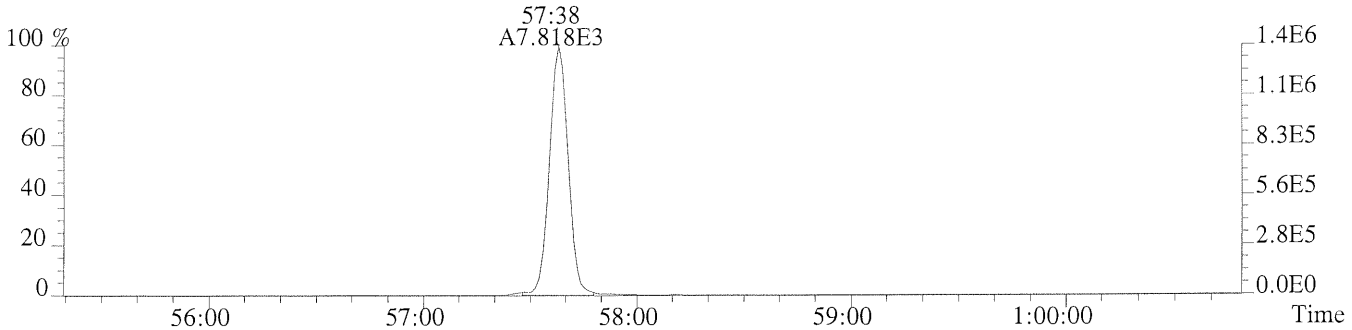
File:U142059 #1-310 Acq: 7-NOV-2011 14:04:53 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-003 B4-SSBlank-
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,908.0,1.00%,F,T)



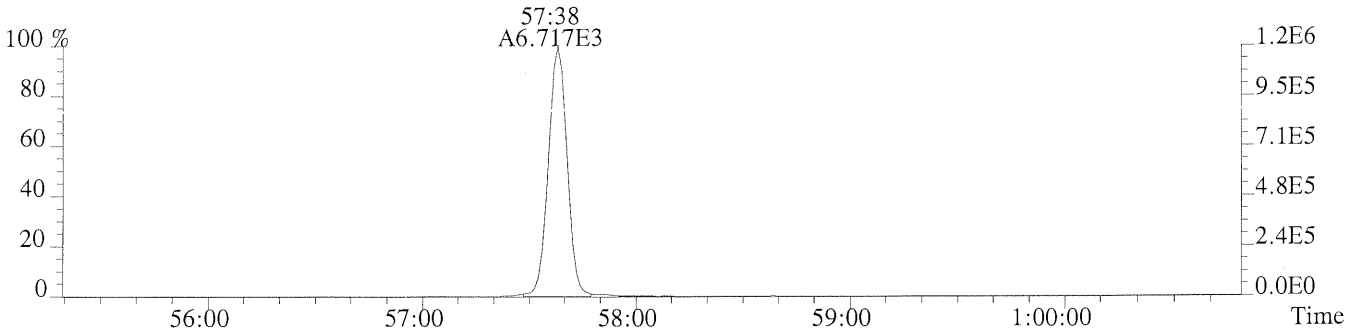
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



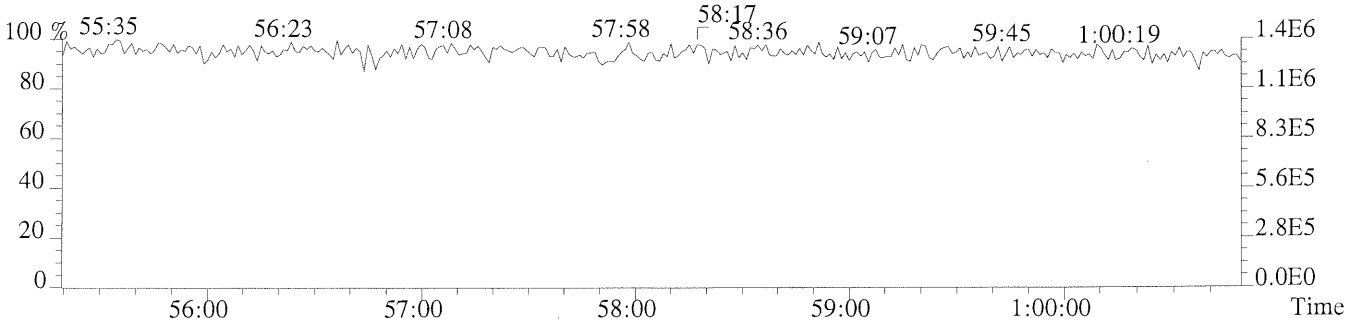
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4CS-CS1-PCBs

Run #17 Filename U142091 Samp: 1 Inj: 1 Acquired: 11-NOV-11 15:25:12
Processed: 17-NOV-11 18:05:33 Sample ID: E1101017-004DL

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	13:19	2.226e+03	6.887e+02	3.23	y	n	1.071
2	1	PCB-2	15:25	6.677e+02	1.788e+02	3.74	n	n	1.008
3	1	PCB-3	15:36	2.986e+03	9.154e+02	3.26	y	n	1.036
4	1	PCB-4	NotFnd	*	*	*	n	n	1.114
5	1	PCB-10	NotFnd	*	*	*	n	n	1.732
6	2	PCB-9	17:54	3.183e+03	2.007e+03	1.59	y	n	1.248
7	2	PCB-7	18:03	2.174e+03	1.445e+03	1.50	y	n	1.457
8	2	PCB-6	18:19	1.223e+04	7.838e+03	1.56	y	n	1.309
9	2	PCB-5	NotFnd	*	*	*	n	n	1.265
10	2	PCB-8	18:45	7.801e+04	4.896e+04	1.59	y	n	1.384
11	2	PCB-14	NotFnd	*	*	*	n	n	1.310
12	2	PCB-11	21:19	3.511e+04	2.235e+04	1.57	y	n	1.285
13	2	PCB-12/13	21:36	3.320e+03	1.540e+03	2.16	n	n	1.301
14	2	PCB-15	21:56	3.978e+04	2.492e+04	1.60	y	n	0.977
15	2	PCB-19	19:03	3.102e+03	2.928e+03	1.06	y	n	1.001
16	2	PCB-18/30	21:00	2.918e+04	2.819e+04	1.04	y	n	1.200
17	2	PCB-17	21:26	1.665e+04	1.642e+04	1.01	y	y	0.982
18	2	PCB-27	21:38	3.574e+03	3.605e+03	0.99	y	y	1.364
19	2	PCB-24	21:49	5.320e+03	5.042e+03	1.06	y	y	1.387
20	2	PCB-16	21:53	1.328e+04	1.268e+04	1.05	y	y	0.889
21	2	PCB-32	22:24	1.167e+04	1.124e+04	1.04	y	n	1.480
22	3	PCB-34	NotFnd	*	*	*	n	y	1.478
23	3	PCB-23	NotFnd	*	*	*	n	y	1.492
24	3	PCB-26/29	24:08	1.868e+04	2.017e+04	0.93	y	y	1.545
25	3	PCB-25	24:22	4.701e+03	5.653e+03	0.83	n	y	1.612
26	3	PCB-31	24:41	9.596e+04	9.364e+04	1.02	y	y	1.607
27	3	PCB-20/28	24:59	1.123e+05	1.098e+05	1.02	y	y	1.586
28	3	PCB-21/33	25:13	5.414e+04	5.316e+04	1.02	y	y	1.494
29	3	PCB-22	25:38	3.576e+04	3.375e+04	1.06	y	y	1.498
30	3	PCB-36	NotFnd	*	*	*	n	y	1.474
31	3	PCB-39	NotFnd	*	*	*	n	y	1.590
32	3	PCB-38	NotFnd	*	*	*	n	y	1.311
33	3	PCB-35	NotFnd	*	*	*	n	y	1.253
34	3	PCB-37	29:05	8.513e+03	1.025e+04	0.83	n	y	1.089
35	2	PCB-54	22:15	5.782e+01	6.039e+01	0.96	n	n	1.002
36	3	PCB-50/53	24:24	4.935e+03	6.258e+03	0.79	y	n	1.202
37	3	PCB-45/51	25:04	7.678e+03	9.529e+03	0.81	y	n	1.159
38	3	PCB-46	25:24	1.678e+03	2.043e+03	0.82	y	y	0.994
39	3	PCB-52	26:51	2.146e+04	2.680e+04	0.80	y	n	1.245
40	3	PCB-43/73	27:06	6.764e+02	9.438e+02	0.72	y	y	1.360
41	3	PCB-49/69	27:21	1.277e+04	1.627e+04	0.79	y	n	1.346
42	3	PCB-48	27:38	5.851e+03	7.925e+03	0.74	y	y	1.232
43	3	PCB-44/47/65	27:52	1.949e+04	2.372e+04	0.82	y	y	1.303
44	3	PCB-59/62/75	28:12	2.755e+03	3.564e+03	0.77	y	y	1.514
45	3	PCB-42	28:24	3.674e+03	4.739e+03	0.78	y	y	1.130
46	3	PCB-40/41/71	28:54	1.001e+04	1.254e+04	0.80	y	y	1.161
47	3	PCB-64	29:08	7.747e+03	9.749e+03	0.79	y	y	1.543
48	3	PCB-72	NotFnd	*	*	*	n	y	1.594
49	3	PCB-68	30:19	4.612e+02	6.202e+02	0.74	y	y	1.743
50	3	PCB-57	30:45	8.656e+01	8.756e+01	0.99	n	y	1.490

51	3	PCB-58	NotFnd	*	*	*	n	y	1.549
52	3	PCB-67	31:09	4.514e+02	5.669e+02	0.80	y	y	1.600
53	3	PCB-63	31:25	3.968e+02	5.263e+02	0.75	y	y	1.497
54	3	PCB-61/70/74/76	31:46	2.025e+04	2.458e+04	0.82	y	n	1.553
55	3	PCB-66	32:07	7.530e+03	8.856e+03	0.85	y	y	1.449
56	3	PCB-55	NotFnd	*	*	*	n	n	1.510
57	4	PCB-56	32:46	4.954e+03	6.336e+03	0.78	y	y	1.367
58	4	PCB-60	32:59	2.814e+03	3.532e+03	0.80	y	y	1.359
59	4	PCB-80	NotFnd	*	*	*	n	n	1.444
60	4	PCB-79	35:00	9.496e+01	1.259e+02	0.75	y	y	1.311
61	4	PCB-78	NotFnd	*	*	*	n	n	1.213
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	36:31	4.413e+02	6.263e+02	0.70	y	n	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	28:10	1.257e+02	8.946e+01	1.40	y	y	1.246
66	3	PCB-103	NotFnd	*	*	*	n	y	1.021
67	3	PCB-94	NotFnd	*	*	*	n	n	0.948
68	3	PCB-95	30:51	7.296e+03	4.640e+03	1.57	y	y	0.953
69	3	PCB-93/100	NotFnd	*	*	*	n	n	1.019
70	3	PCB-98/102	31:13	1.575e+02	1.648e+02	0.96	n	y	0.978
71	3	PCB-88/91	31:44	1.038e+03	7.672e+02	1.35	y	y	0.959
72	3	PCB-84	31:58	1.219e+03	7.881e+02	1.55	y	y	0.849
73	3	PCB-89	NotFnd	*	*	*	n	n	0.853
74	4	PCB-121	NotFnd	*	*	*	n	n	1.434
75	4	PCB-92	33:17	7.156e+02	4.488e+02	1.59	y	n	0.969
76	4	PCB-90/101/113	33:53	9.252e+03	5.902e+03	1.57	y	y	1.139
77	4	PCB-83/99	34:27	3.042e+03	1.942e+03	1.57	y	y	1.029
78	4	PCB-112	NotFnd	*	*	*	n	y	1.342
79	4	PCB-86/87/97/109/119/125	35:02	4.390e+03	2.712e+03	1.62	y	y	1.147
80	4	PCB-117	NotFnd	*	*	*	n	n	1.249
81	4	PCB-85/116	35:41	1.654e+03	9.647e+02	1.71	y	n	1.164
82	4	PCB-110/115	35:50	6.427e+03	4.163e+03	1.54	y	n	1.342
83	4	PCB-82	36:09	4.436e+02	2.862e+02	1.55	y	n	0.825
84	4	PCB-111	NotFnd	*	*	*	n	n	1.412
85	4	PCB-120	NotFnd	*	*	*	n	n	1.328
86	5	PCB-108/124	38:09	1.809e+02	1.571e+02	1.15	n	n	1.102
87	5	PCB-107	38:23	3.625e+02	2.402e+02	1.51	y	n	1.164
88	5	PCB-123	NotFnd	*	*	*	n	y	1.018
89	5	PCB-106	38:41	2.921e+02	1.939e+02	1.51	y	y	1.125
90	5	PCB-118	38:49	4.928e+03	3.163e+03	1.56	y	y	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	0.955
92	5	PCB-114	39:21	1.441e+02	1.100e+02	1.31	n	n	0.991
93	5	PCB-105	39:59	1.807e+03	1.084e+03	1.67	y	n	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	0.985
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.578
98	4	PCB-150	NotFnd	*	*	*	n	n	1.630
99	4	PCB-136	34:20	1.667e+03	1.372e+03	1.22	y	y	1.498
100	4	PCB-145	NotFnd	*	*	*	n	n	1.618
101	4	PCB-148	NotFnd	*	*	*	n	n	1.147
102	4	PCB-135/151	36:46	2.587e+03	2.062e+03	1.25	y	y	1.170
103	4	PCB-154	NotFnd	*	*	*	n	y	1.311
104	4	PCB-144	37:19	3.067e+02	2.532e+02	1.21	y	y	1.160
105	5	PCB-147/149	37:41	7.748e+03	5.949e+03	1.30	y	y	1.318
106	5	PCB-134	37:52	2.586e+02	2.505e+02	1.03	n	y	1.070
107	5	PCB-143	NotFnd	*	*	*	n	y	1.186

108	5	PCB-139/140	38:16	6.918e+01	5.795e+01	1.19	y	n	1.301
109	5	PCB-131	38:27	4.908e+01	5.193e+01	0.95	n	y	1.144
110	5	PCB-142	NotFnd	*	*	*	n	y	1.088
111	5	PCB-132	38:55	1.730e+03	1.393e+03	1.24	y	y	1.149
112	5	PCB-133	39:25	6.044e+01	6.138e+01	0.98	n	y	1.115
113	5	PCB-165	NotFnd	*	*	*	n	y	1.501
114	5	PCB-146	40:04	8.614e+02	6.906e+02	1.25	y	y	1.265
115	5	PCB-161	NotFnd	*	*	*	n	n	1.502
116	5	PCB-153/168	40:39	7.321e+03	5.657e+03	1.29	y	n	1.449
117	5	PCB-141	40:51	1.381e+03	1.051e+03	1.31	y	y	1.195
118	5	PCB-130	41:15	1.712e+02	1.345e+02	1.27	y	n	0.982
119	5	PCB-137	NotFnd	*	*	*	n	n	1.120
120	5	PCB-164	41:36	4.191e+02	2.746e+02	1.53	n	y	1.571
121	5	PCB-129/138/163	41:54	5.171e+03	4.055e+03	1.28	y	y	1.209
122	5	PCB-160	NotFnd	*	*	*	n	y	1.497
123	5	PCB-158	42:17	6.334e+02	5.529e+02	1.15	y	y	1.572
124	5	PCB-128/166	43:08	4.870e+02	4.080e+02	1.19	y	n	1.238
125	6	PCB-159	44:05	9.286e+01	8.307e+01	1.12	y	n	0.984
126	6	PCB-162	44:23	7.120e+01	2.825e+01	2.52	n	n	1.087
127	6	PCB-167	44:53	1.370e+02	1.122e+02	1.22	y	n	1.008
128	6	PCB-156/157	46:00	3.415e+02	2.377e+02	1.44	n	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	39:38	1.361e+03	1.398e+03	0.97	y	y	1.320
132	5	PCB-184	NotFnd	*	*	*	n	n	1.480
133	5	PCB-176	40:32	3.998e+02	3.680e+02	1.09	y	n	1.274
134	5	PCB-186	NotFnd	*	*	*	n	n	1.353
135	5	PCB-178	42:20	3.307e+02	3.231e+02	1.02	y	n	0.900
136	5	PCB-175	42:57	9.781e+01	1.478e+02	0.66	n	y	0.946
137	5	PCB-187	43:13	1.934e+03	1.866e+03	1.04	y	y	1.039
138	5	PCB-182	NotFnd	*	*	*	n	n	0.970
139	6	PCB-183	43:50	9.090e+02	8.209e+02	1.11	y	y	0.813
140	6	PCB-185	43:56	1.413e+02	1.708e+02	0.83	n	y	0.729
141	6	PCB-174	44:05	1.034e+03	9.630e+02	1.07	y	y	0.713
142	6	PCB-177	44:31	4.614e+02	4.651e+02	0.99	y	n	0.677
143	6	PCB-181	NotFnd	*	*	*	n	n	0.753
144	6	PCB-171/173	45:08	2.650e+02	2.517e+02	1.05	y	n	0.649
145	6	PCB-172	46:45	1.308e+02	1.229e+02	1.06	y	n	0.624
146	6	PCB-192	NotFnd	*	*	*	n	n	0.882
147	6	PCB-180/193	47:23	1.745e+03	1.709e+03	1.02	y	n	0.786
148	6	PCB-191	47:44	4.358e+01	3.468e+01	1.26	n	n	0.839
149	6	PCB-170	48:39	3.891e+02	3.258e+02	1.19	y	n	0.606
150	6	PCB-190	49:11	1.397e+02	1.083e+02	1.29	n	n	0.819
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	44:37	2.702e+02	2.851e+02	0.95	y	n	0.863
153	6	PCB-201	45:33	1.461e+02	1.736e+02	0.84	y	n	1.216
154	6	PCB-204	NotFnd	*	*	*	n	n	1.189
155	6	PCB-197	46:29	3.456e+01	3.997e+01	0.86	y	y	1.291
156	6	PCB-200	46:32	7.740e+01	9.084e+01	0.85	y	y	1.169
157	6	PCB-198/199	49:21	2.790e+02	3.035e+02	0.92	y	n	0.859
158	6	PCB-196	50:01	1.294e+02	1.363e+02	0.95	y	n	0.838
159	6	PCB-203	50:12	1.781e+02	1.911e+02	0.93	y	n	0.967
160	6	PCB-195	51:31	3.165e+01	4.454e+01	0.71	n	n	0.770
161	6	PCB-194	53:50	8.147e+01	8.328e+01	0.98	y	n	0.944
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	51:16	2.364e+02	3.210e+02	0.74	y	n	0.880
164	6	PCB-207	52:12	6.432e+01	6.998e+01	0.92	n	n	1.058

Filename U142091 Acquired: 11-NOV-11 15:25:12

165	7	PCB-206	56:03	1.389e+02	1.999e+02	0.70	y	n	0.931
166	7	PCB-209	57:38	6.311e+02	5.203e+02	1.21	y	n	0.894
167	1	PCB-1L	13:18	5.304e+03	1.726e+03	3.07	y	n	1.224
168	1	PCB-3L	15:34	6.218e+03	1.980e+03	3.14	y	n	1.173
169	1	PCB-4L	15:50	2.012e+03	1.353e+03	1.49	y	n	0.803
170	2	PCB-15L	21:55	5.903e+03	3.669e+03	1.61	y	n	0.962
171	2	PCB-19L	19:02	2.355e+03	2.724e+03	0.86	n	y	0.636
172	3	PCB-37L	29:03	3.912e+03	3.735e+03	1.05	y	y	1.144
173	2	PCB-54L	22:14	1.320e+03	1.586e+03	0.83	y	y	1.140
174	4	PCB-81L	35:57	2.200e+03	2.582e+03	0.85	y	y	0.947
175	4	PCB-77L	36:30	2.182e+03	2.639e+03	0.83	y	y	0.949
176	3	PCB-104L	27:47	2.004e+03	1.309e+03	1.53	y	y	1.397
177	5	PCB-123L	38:29	2.916e+03	1.736e+03	1.68	y	y	1.029
178	5	PCB-118L	38:48	2.854e+03	1.881e+03	1.52	y	y	1.077
179	5	PCB-114L	39:20	3.081e+03	1.864e+03	1.65	y	y	1.075
180	5	PCB-105L	39:57	2.792e+03	1.835e+03	1.52	y	y	1.013
181	5	PCB-126L	43:00	3.290e+03	2.130e+03	1.54	y	n	0.898
182	4	PCB-155L	33:37	1.766e+03	1.386e+03	1.27	y	y	1.637
183	6	PCB-167L	44:51	2.372e+03	1.785e+03	1.33	y	n	0.882
184	6	PCB-156/157L	46:00	4.736e+03	3.640e+03	1.30	y	n	0.818
185	6	PCB-169L	49:14	2.229e+03	1.751e+03	1.27	y	n	0.716
186	5	PCB-188L	39:18	1.690e+03	1.570e+03	1.08	y	n	2.358
187	6	PCB-189L	51:44	1.619e+03	1.533e+03	1.06	y	n	1.307
188	6	PCB-202L	44:36	1.280e+03	1.338e+03	0.96	y	n	1.804
189	6	PCB-205L	54:18	1.082e+03	1.126e+03	0.96	y	n	1.363
190	6	PCB-208L	51:15	8.211e+02	1.035e+03	0.79	y	n	1.337
191	7	PCB-206L	56:02	1.080e+03	1.386e+03	0.78	y	n	0.998
192	7	PCB-209L	57:37	1.180e+03	9.944e+02	1.19	y	n	1.563
193	3	PCB-28L	24:57	5.043e+03	4.636e+03	1.09	y	n	1.387
194	4	PCB-111L	36:32	2.285e+03	1.486e+03	1.54	y	y	1.238
195	5	PCB-178L	42:19	1.164e+03	1.141e+03	1.02	y	n	0.953
196	2	PCB-9L	17:52	8.197e+03	5.232e+03	1.57	y	n	-
197	3	PCB-52L	26:50	2.835e+03	3.255e+03	0.87	y	n	-
198	4	PCB-101L	33:51	2.766e+03	1.706e+03	1.62	y	y	-
199	5	PCB-138L	41:52	2.460e+03	1.930e+03	1.27	y	y	-
200	6	PCB-194L	53:49	1.143e+03	1.275e+03	0.90	y	n	-

-- Sample Calculation--

$$\text{PCB-209} = \frac{(6.311e+02 + 5.203e+02) \times 10000 \text{ pg} \times 1}{(1.180e+03 + 9.944e+02) \times (0.5 \ \cancel{\text{mL}}) \times (1\text{L} \ \cancel{/ 1000} \text{ mL}) \times 0.8938} = 11900 \text{ pg}$$

11/21/11

Columbia Analytical Services, Inc.
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sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4CS-CS1-PCBS

Run #9 Filename U142091#1 Samp: 1 Inj: 1 Acquired: 11-NOV-11 15:25:12
Processed: 17-NOV-11 19:37:16 Sample ID: E1101017-004DL

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:44	3.109e+02	1.970e+02	1.58	yes	1.109	no
2	70L	PCB-70L	31:44	2.587e+03	2.850e+03	0.91	no	1.434	yes
3	15L	PCB-15L	21:55	5.903e+03	3.669e+03	1.61	yes		no
4	81L	PCB-81L	35:57	2.200e+03	2.582e+03	0.85	yes		yes

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	4.82e+04	2.88e+03	1.7e+01	2.78e+04	1.71e+03	1.6e+01
2	PCB-70L	3.52e+05	7.36e+03	4.8e+01	4.05e+05	2.42e+03	1.7e+02
3	PCB-15L	9.11e+05	2.88e+03	3.2e+02	5.69e+05	1.71e+03	3.3e+02
4	PCB-81L	3.29e+05	1.23e+04	2.7e+01	3.86e+05	2.33e+03	1.7e+02

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(3.11e+02 + 1.97e+02) \times 10000\ \text{pg} \quad 1}{(5.90e+03 + 3.67e+03) \times 1.0\ \cancel{L} \times 1.109} = 478\ \text{pg} \quad \cancel{\text{pg/L}}$$

11/21/11

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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4CS-CS1-PCBs

Run #17 Filename U142091#1 Samp: 1 Inj: 1 Acquired: 11-NOV-11 15:25:12

Processed: 17-NOV-11 18:05:33 LAB. ID: E1101017-004DL

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	4.96e+05	1.48e+03	3.4e+02	1.49e+05	1.26e+03	1.2e+02
2	PCB-2	1.21e+05	1.48e+03	8.2e+01	3.22e+04	1.26e+03	2.6e+01
3	PCB-3	5.05e+05	1.48e+03	3.4e+02	1.55e+05	1.26e+03	1.2e+02
4	PCB-4	*	1.45e+04	*	*	7.39e+05	*
5	PCB-10	*	1.45e+04	*	*	7.39e+05	*
6	PCB-9	5.53e+05	2.98e+03	1.9e+02	3.41e+05	2.79e+04	1.2e+01
7	PCB-7	4.26e+05	2.98e+03	1.4e+02	2.78e+05	2.79e+04	9.9e+00
8	PCB-6	2.12e+06	2.98e+03	7.1e+02	1.36e+06	2.79e+04	4.9e+01
9	PCB-5	*	2.98e+03	*	*	2.79e+04	*
10	PCB-8	1.24e+07	2.98e+03	4.2e+03	7.71e+06	2.79e+04	2.8e+02
11	PCB-14	*	2.98e+03	*	*	2.79e+04	*
12	PCB-11	5.77e+06	2.98e+03	1.9e+03	3.65e+06	2.79e+04	1.3e+02
13	PCB-12/13	5.33e+05	2.98e+03	1.8e+02	3.19e+05	2.79e+04	1.1e+01
14	PCB-15	5.85e+06	2.98e+03	2.0e+03	3.73e+06	2.79e+04	1.3e+02
15	PCB-19	4.84e+05	4.67e+04	1.0e+01	4.81e+05	1.92e+03	2.5e+02
16	PCB-18/30	4.48e+06	4.67e+04	9.6e+01	4.31e+06	1.92e+03	2.2e+03
17	PCB-17	2.66e+06	4.67e+04	5.7e+01	2.57e+06	1.92e+03	1.3e+03
18	PCB-27	6.62e+05	4.67e+04	1.4e+01	6.76e+05	1.92e+03	3.5e+02
19	PCB-24	9.83e+05	4.67e+04	2.1e+01	9.71e+05	1.92e+03	5.1e+02
20	PCB-16	2.80e+06	4.67e+04	6.0e+01	2.58e+06	1.92e+03	1.3e+03
21	PCB-32	2.90e+06	4.67e+04	6.2e+01	2.84e+06	1.92e+03	1.5e+03
22	PCB-34	*	5.13e+03	*	*	3.06e+03	*
23	PCB-23	*	5.13e+03	*	*	3.06e+03	*
24	PCB-26/29	2.98e+06	5.13e+03	5.8e+02	2.99e+06	3.06e+03	9.8e+02
25	PCB-25	1.07e+06	5.13e+03	2.1e+02	1.20e+06	3.06e+03	3.9e+02
26	PCB-31	1.53e+07	5.13e+03	3.0e+03	1.48e+07	3.06e+03	4.8e+03
27	PCB-20/28	1.64e+07	5.13e+03	3.2e+03	1.58e+07	3.06e+03	5.2e+03
28	PCB-21/33	9.38e+06	5.13e+03	1.8e+03	9.01e+06	3.06e+03	2.9e+03
29	PCB-22	5.67e+06	5.13e+03	1.1e+03	5.32e+06	3.06e+03	1.7e+03
30	PCB-36	*	5.13e+03	*	*	3.06e+03	*
31	PCB-39	*	5.13e+03	*	*	3.06e+03	*
32	PCB-38	*	5.13e+03	*	*	3.06e+03	*
33	PCB-35	*	5.13e+03	*	*	3.06e+03	*
34	PCB-37	1.59e+06	5.13e+03	3.1e+02	1.61e+06	3.06e+03	5.3e+02
35	PCB-54	9.18e+03	2.50e+03	3.7e+00	1.33e+04	2.12e+03	6.3e+00
36	PCB-50/53	7.52e+05	1.20e+03	6.3e+02	9.49e+05	1.78e+03	5.3e+02
37	PCB-45/51	8.50e+05	1.20e+03	7.1e+02	1.03e+06	1.78e+03	5.8e+02
38	PCB-46	2.70e+05	1.20e+03	2.3e+02	3.16e+05	1.78e+03	1.8e+02
39	PCB-52	3.14e+06	1.20e+03	2.6e+03	3.98e+06	1.78e+03	2.2e+03
40	PCB-43/73	1.36e+05	1.20e+03	1.1e+02	1.81e+05	1.78e+03	1.0e+02
41	PCB-49/69	1.96e+06	1.20e+03	1.6e+03	2.51e+06	1.78e+03	1.4e+03
42	PCB-48	8.34e+05	1.20e+03	7.0e+02	1.08e+06	1.78e+03	6.1e+02
43	PCB-44/47/65	2.31e+06	1.20e+03	1.9e+03	2.90e+06	1.78e+03	1.6e+03
44	PCB-59/62/75	3.60e+05	1.20e+03	3.0e+02	4.56e+05	1.78e+03	2.6e+02
45	PCB-42	6.44e+05	1.20e+03	5.4e+02	8.29e+05	1.78e+03	4.7e+02
46	PCB-40/41/71	1.04e+06	1.20e+03	8.7e+02	1.28e+06	1.78e+03	7.2e+02
47	PCB-64	1.33e+06	1.20e+03	1.1e+03	1.66e+06	1.78e+03	9.3e+02

Run #17 Filename U142091#1 Samp: 1 Acquired: 11-NOV-11 15:25:12

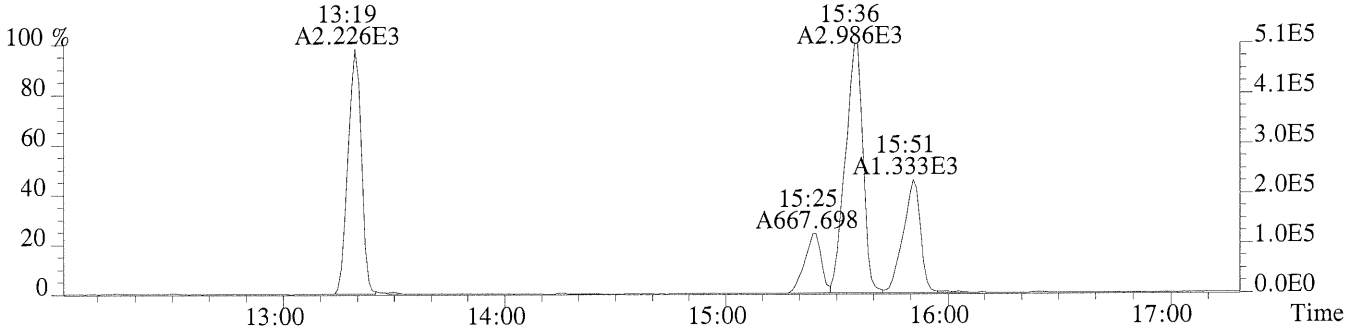
48	PCB-72	*	1.20e+03	*	*	1.78e+03	*
49	PCB-68	8.19e+04	1.20e+03	6.9e+01	1.08e+05	1.78e+03	6.1e+01
50	PCB-57	1.55e+04	1.20e+03	1.3e+01	1.82e+04	1.78e+03	1.0e+01
51	PCB-58	*	1.20e+03	*	*	1.78e+03	*
52	PCB-67	7.99e+04	1.20e+03	6.7e+01	1.01e+05	1.78e+03	5.7e+01
53	PCB-63	7.06e+04	1.20e+03	5.9e+01	9.67e+04	1.78e+03	5.4e+01
54	PCB-61/70/74/76	1.89e+06	1.20e+03	1.6e+03	2.37e+06	1.78e+03	1.3e+03
55	PCB-66	1.42e+06	1.20e+03	1.2e+03	1.70e+06	1.78e+03	9.6e+02
56	PCB-55	*	1.20e+03	*	*	1.78e+03	*
57	PCB-56	6.89e+05	2.52e+03	2.7e+02	9.04e+05	3.08e+03	2.9e+02
58	PCB-60	4.50e+05	2.52e+03	1.8e+02	5.78e+05	3.08e+03	1.9e+02
59	PCB-80	*	2.52e+03	*	*	3.08e+03	*
60	PCB-79	1.81e+04	2.52e+03	7.2e+00	2.29e+04	3.08e+03	7.5e+00
61	PCB-78	*	2.52e+03	*	*	3.08e+03	*
62	PCB-81	*	2.52e+03	*	*	3.08e+03	*
63	PCB-77	7.87e+04	2.52e+03	3.1e+01	1.04e+05	3.08e+03	3.4e+01
64	PCB-104	*	1.54e+03	*	*	1.49e+03	*
65	PCB-96	1.92e+04	1.54e+03	1.2e+01	1.39e+04	1.49e+03	9.3e+00
66	PCB-103	*	1.54e+03	*	*	1.49e+03	*
67	PCB-94	*	1.54e+03	*	*	1.49e+03	*
68	PCB-95	1.05e+06	1.54e+03	6.8e+02	6.85e+05	1.49e+03	4.6e+02
69	PCB-93/100	*	1.54e+03	*	*	1.49e+03	*
70	PCB-98/102	2.99e+04	1.54e+03	1.9e+01	2.72e+04	1.49e+03	1.8e+01
71	PCB-88/91	1.43e+05	1.54e+03	9.3e+01	1.03e+05	1.49e+03	6.9e+01
72	PCB-84	2.05e+05	1.54e+03	1.3e+02	1.29e+05	1.49e+03	8.7e+01
73	PCB-89	*	1.54e+03	*	*	1.49e+03	*
74	PCB-121	*	1.53e+03	*	*	3.34e+03	*
75	PCB-92	9.69e+04	1.53e+03	6.3e+01	5.86e+04	3.34e+03	1.8e+01
76	PCB-90/101/113	1.34e+06	1.53e+03	8.7e+02	8.59e+05	3.34e+03	2.6e+02
77	PCB-83/99	3.95e+05	1.53e+03	2.6e+02	2.58e+05	3.34e+03	7.7e+01
78	PCB-112	*	1.53e+03	*	*	3.34e+03	*
79	CB-86/87/97/109/119/125	3.68e+05	1.53e+03	2.4e+02	2.25e+05	3.34e+03	6.7e+01
80	PCB-117	*	1.53e+03	*	*	3.34e+03	*
81	PCB-85/116	2.19e+05	1.53e+03	1.4e+02	1.33e+05	3.34e+03	4.0e+01
82	PCB-110/115	1.04e+06	1.53e+03	6.8e+02	6.80e+05	3.34e+03	2.0e+02
83	PCB-82	7.59e+04	1.53e+03	5.0e+01	4.83e+04	3.34e+03	1.4e+01
84	PCB-111	*	1.53e+03	*	*	3.34e+03	*
85	PCB-120	*	1.53e+03	*	*	3.34e+03	*
86	PCB-108/124	3.07e+04	5.04e+03	6.1e+00	2.62e+04	1.67e+03	1.6e+01
87	PCB-107	6.48e+04	5.04e+03	1.3e+01	4.13e+04	1.67e+03	2.5e+01
88	PCB-123	*	5.04e+03	*	*	1.67e+03	*
89	PCB-106	4.04e+04	5.04e+03	8.0e+00	2.61e+04	1.67e+03	1.6e+01
90	PCB-118	8.35e+05	5.04e+03	1.7e+02	5.27e+05	1.67e+03	3.2e+02
91	PCB-122	*	5.04e+03	*	*	1.67e+03	*
92	PCB-114	2.36e+04	5.04e+03	4.7e+00	1.87e+04	1.67e+03	1.1e+01
93	PCB-105	2.58e+05	5.04e+03	5.1e+01	1.59e+05	1.67e+03	9.5e+01
94	PCB-127	*	5.04e+03	*	*	1.67e+03	*
95	PCB-126	*	5.04e+03	*	*	1.67e+03	*
96	PCB-155	*	1.50e+03	*	*	1.43e+03	*
97	PCB-152	*	1.50e+03	*	*	1.43e+03	*
98	PCB-150	*	1.50e+03	*	*	1.43e+03	*
99	PCB-136	2.33e+05	1.50e+03	1.6e+02	2.00e+05	1.43e+03	1.4e+02
100	PCB-145	*	1.50e+03	*	*	1.43e+03	*
101	PCB-148	*	1.50e+03	*	*	1.43e+03	*
102	PCB-135/151	3.55e+05	1.50e+03	2.4e+02	2.77e+05	1.43e+03	1.9e+02
103	PCB-154	*	1.50e+03	*	*	1.43e+03	*
104	PCB-144	6.92e+04	1.50e+03	4.6e+01	5.73e+04	1.43e+03	4.0e+01

105	PCB-147/149	1.24e+06	1.82e+03	6.8e+02	9.31e+05	1.26e+03	7.4e+02
106	PCB-134	4.66e+04	1.82e+03	2.6e+01	3.91e+04	1.26e+03	3.1e+01
107	PCB-143	*	1.82e+03	*	*	1.26e+03	*
108	PCB-139/140	1.26e+04	1.82e+03	7.0e+00	8.62e+03	1.26e+03	6.9e+00
109	PCB-131	8.53e+03	1.82e+03	4.7e+00	8.76e+03	1.26e+03	7.0e+00
110	PCB-142	*	1.82e+03	*	*	1.26e+03	*
111	PCB-132	2.86e+05	1.82e+03	1.6e+02	2.31e+05	1.26e+03	1.8e+02
112	PCB-133	1.06e+04	1.82e+03	5.8e+00	1.02e+04	1.26e+03	8.1e+00
113	PCB-165	*	1.82e+03	*	*	1.26e+03	*
114	PCB-146	1.51e+05	1.82e+03	8.3e+01	1.17e+05	1.26e+03	9.3e+01
115	PCB-161	*	1.82e+03	*	*	1.26e+03	*
116	PCB-153/168	1.20e+06	1.82e+03	6.6e+02	9.38e+05	1.26e+03	7.5e+02
117	PCB-141	2.35e+05	1.82e+03	1.3e+02	1.82e+05	1.26e+03	1.4e+02
118	PCB-130	3.26e+04	1.82e+03	1.8e+01	2.16e+04	1.26e+03	1.7e+01
119	PCB-137	*	1.82e+03	*	*	1.26e+03	*
120	PCB-164	7.55e+04	1.82e+03	4.1e+01	4.63e+04	1.26e+03	3.7e+01
121	PCB-129/138/163	8.50e+05	1.82e+03	4.7e+02	6.71e+05	1.26e+03	5.3e+02
122	PCB-160	*	1.82e+03	*	*	1.26e+03	*
123	PCB-158	1.08e+05	1.82e+03	5.9e+01	9.32e+04	1.26e+03	7.4e+01
124	PCB-128/166	6.31e+04	1.82e+03	3.5e+01	5.23e+04	1.26e+03	4.2e+01
125	PCB-159	2.03e+04	1.62e+03	1.3e+01	1.58e+04	1.06e+03	1.5e+01
126	PCB-162	1.67e+04	1.62e+03	1.0e+01	5.67e+03	1.06e+03	5.3e+00
127	PCB-167	3.30e+04	1.62e+03	2.0e+01	2.31e+04	1.06e+03	2.2e+01
128	PCB-156/157	6.02e+04	1.62e+03	3.7e+01	4.61e+04	1.06e+03	4.3e+01
129	PCB-169	*	1.62e+03	*	*	1.06e+03	*
130	PCB-188	*	1.74e+03	*	*	9.76e+02	*
131	PCB-179	2.15e+05	1.74e+03	1.2e+02	2.34e+05	9.76e+02	2.4e+02
132	PCB-184	*	1.74e+03	*	*	9.76e+02	*
133	PCB-176	6.85e+04	1.74e+03	3.9e+01	6.21e+04	9.76e+02	6.4e+01
134	PCB-186	*	1.74e+03	*	*	9.76e+02	*
135	PCB-178	6.01e+04	1.74e+03	3.5e+01	5.84e+04	9.76e+02	6.0e+01
136	PCB-175	1.69e+04	1.74e+03	9.7e+00	1.53e+04	9.76e+02	1.6e+01
137	PCB-187	3.21e+05	1.74e+03	1.8e+02	3.13e+05	9.76e+02	3.2e+02
138	PCB-182	*	1.74e+03	*	*	9.76e+02	*
139	PCB-183	1.89e+05	1.78e+03	1.1e+02	1.74e+05	1.04e+03	1.7e+02
140	PCB-185	5.47e+04	1.78e+03	3.1e+01	5.06e+04	1.04e+03	4.9e+01
141	PCB-174	2.21e+05	1.78e+03	1.2e+02	1.98e+05	1.04e+03	1.9e+02
142	PCB-177	9.18e+04	1.78e+03	5.1e+01	9.21e+04	1.04e+03	8.9e+01
143	PCB-181	*	1.78e+03	*	*	1.04e+03	*
144	PCB-171/173	5.16e+04	1.78e+03	2.9e+01	5.47e+04	1.04e+03	5.3e+01
145	PCB-172	2.76e+04	1.78e+03	1.5e+01	2.54e+04	1.04e+03	2.4e+01
146	PCB-192	*	1.78e+03	*	*	1.04e+03	*
147	PCB-180/193	3.40e+05	1.78e+03	1.9e+02	3.40e+05	1.04e+03	3.3e+02
148	PCB-191	8.53e+03	1.78e+03	4.8e+00	7.31e+03	1.04e+03	7.1e+00
149	PCB-170	7.83e+04	1.78e+03	4.4e+01	6.55e+04	1.04e+03	6.3e+01
150	PCB-190	2.83e+04	1.78e+03	1.6e+01	2.13e+04	1.04e+03	2.1e+01
151	PCB-189	*	1.78e+03	*	*	1.04e+03	*
152	PCB-202	5.17e+04	1.28e+03	4.1e+01	5.68e+04	1.08e+03	5.3e+01
153	PCB-201	2.90e+04	1.28e+03	2.3e+01	3.51e+04	1.08e+03	3.3e+01
154	PCB-204	*	1.28e+03	*	*	1.08e+03	*
155	PCB-197	8.63e+03	1.28e+03	6.8e+00	9.39e+03	1.08e+03	8.7e+00
156	PCB-200	1.53e+04	1.28e+03	1.2e+01	1.65e+04	1.08e+03	1.5e+01
157	PCB-198/199	5.20e+04	1.28e+03	4.1e+01	5.92e+04	1.08e+03	5.5e+01
158	PCB-196	2.47e+04	1.28e+03	1.9e+01	2.96e+04	1.08e+03	2.7e+01
159	PCB-203	3.78e+04	1.28e+03	3.0e+01	3.79e+04	1.08e+03	3.5e+01
160	PCB-195	6.99e+03	1.28e+03	5.5e+00	9.60e+03	1.08e+03	8.9e+00
161	PCB-194	1.84e+04	1.28e+03	1.4e+01	1.66e+04	1.08e+03	1.5e+01
162	PCB-205	*	1.28e+03	*	*	1.08e+03	*

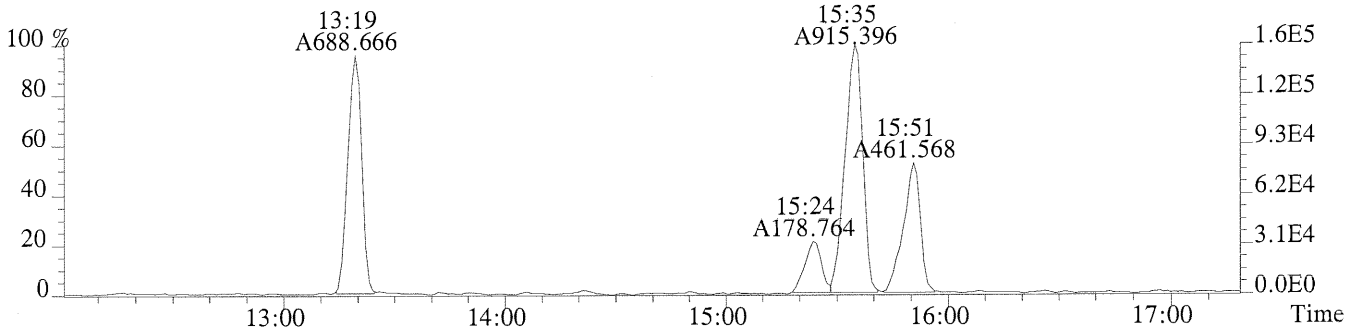
Run #17 Filename U142091#1 Samp: 1 Acquired: 11-NOV-11 15:25:12

163	PCB-208	5.01e+04	7.60e+02	6.6e+01	6.34e+04	5.88e+02	1.1e+02
164	PCB-207	1.27e+04	7.60e+02	1.7e+01	1.46e+04	5.88e+02	2.5e+01
165	PCB-206	2.53e+04	9.56e+02	2.6e+01	3.34e+04	7.20e+02	4.6e+01
166	PCB-209	1.09e+05	8.00e+02	1.4e+02	9.63e+04	5.60e+02	1.7e+02
167	PCB-1L	1.16e+06	1.84e+03	6.3e+02	3.75e+05	4.44e+03	8.5e+01
168	PCB-3L	1.08e+06	1.84e+03	5.9e+02	3.37e+05	4.44e+03	7.6e+01
169	PCB-4L	3.55e+05	1.60e+03	2.2e+02	2.32e+05	1.88e+03	1.2e+02
170	PCB-15L	9.11e+05	2.88e+03	3.2e+02	5.69e+05	1.71e+03	3.3e+02
171	PCB-19L	3.14e+05	3.37e+04	9.3e+00	3.10e+05	3.57e+04	8.7e+00
172	PCB-37L	5.59e+05	2.82e+04	2.0e+01	5.09e+05	1.47e+04	3.5e+01
173	PCB-54L	1.96e+05	8.22e+03	2.4e+01	2.25e+05	6.32e+03	3.6e+01
174	PCB-81L	3.29e+05	1.23e+04	2.7e+01	3.86e+05	2.33e+03	1.7e+02
175	PCB-77L	3.24e+05	1.23e+04	2.6e+01	4.06e+05	2.33e+03	1.7e+02
176	PCB-104L	2.94e+05	1.52e+03	1.9e+02	1.92e+05	1.60e+03	1.2e+02
177	PCB-123L	4.58e+05	2.36e+03	1.9e+02	2.79e+05	1.49e+03	1.9e+02
178	PCB-118L	4.87e+05	2.36e+03	2.1e+02	3.03e+05	1.49e+03	2.0e+02
179	PCB-114L	5.02e+05	2.36e+03	2.1e+02	2.88e+05	1.49e+03	1.9e+02
180	PCB-105L	4.56e+05	2.36e+03	1.9e+02	3.04e+05	1.49e+03	2.0e+02
181	PCB-126L	5.45e+05	2.36e+03	2.3e+02	3.40e+05	1.49e+03	2.3e+02
182	PCB-155L	2.50e+05	1.14e+03	2.2e+02	1.87e+05	1.35e+03	1.4e+02
183	PCB-167L	4.68e+05	1.61e+03	2.9e+02	3.44e+05	1.85e+03	1.9e+02
184	PCB-156/157L	7.20e+05	1.61e+03	4.5e+02	5.64e+05	1.85e+03	3.0e+02
185	PCB-169L	4.26e+05	1.61e+03	2.6e+02	3.40e+05	1.85e+03	1.8e+02
186	PCB-188L	2.70e+05	1.14e+03	2.4e+02	2.63e+05	9.60e+02	2.7e+02
187	PCB-189L	3.17e+05	1.20e+03	2.6e+02	3.06e+05	9.68e+02	3.2e+02
188	PCB-202L	2.56e+05	1.14e+03	2.2e+02	2.73e+05	8.84e+02	3.1e+02
189	PCB-205L	2.13e+05	1.14e+03	1.9e+02	2.17e+05	8.84e+02	2.5e+02
190	PCB-208L	1.64e+05	8.28e+02	2.0e+02	2.02e+05	1.22e+03	1.7e+02
191	PCB-206L	1.95e+05	1.22e+03	1.6e+02	2.44e+05	9.20e+02	2.7e+02
192	PCB-209L	2.15e+05	8.52e+02	2.5e+02	1.72e+05	5.24e+02	3.3e+02
193	PCB-28L	7.42e+05	2.82e+04	2.6e+01	6.94e+05	1.47e+04	4.7e+01
194	PCB-111L	3.53e+05	2.41e+03	1.5e+02	2.33e+05	1.35e+03	1.7e+02
195	PCB-178L	1.96e+05	1.14e+03	1.7e+02	1.89e+05	9.60e+02	2.0e+02
196	PCB-9L	1.43e+06	2.88e+03	5.0e+02	8.85e+05	1.71e+03	5.2e+02
197	PCB-52L	4.19e+05	7.36e+03	5.7e+01	4.93e+05	2.42e+03	2.0e+02
198	PCB-101L	4.18e+05	2.41e+03	1.7e+02	2.65e+05	1.35e+03	2.0e+02
199	PCB-138L	4.06e+05	1.21e+03	3.3e+02	3.29e+05	1.71e+03	1.9e+02
200	PCB-194L	2.31e+05	1.14e+03	2.0e+02	2.68e+05	8.84e+02	3.0e+02

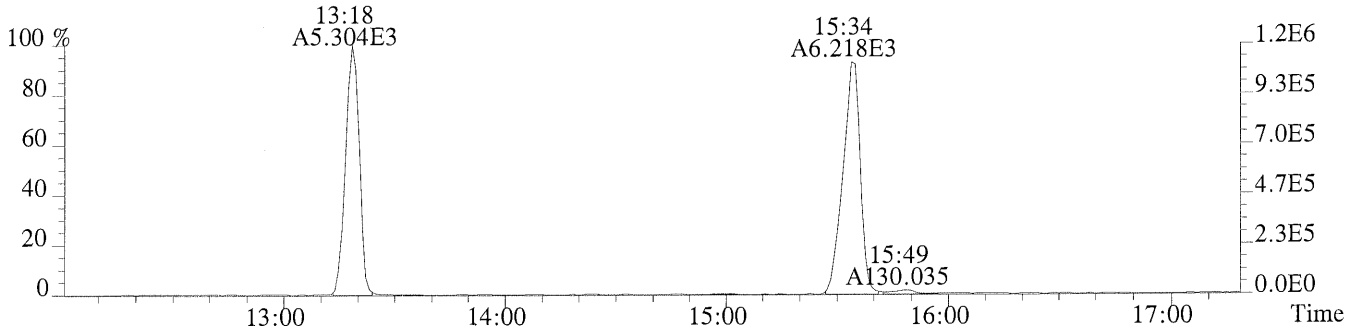
File:U142091 #1-341 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1476.0,1.00%,F,T)



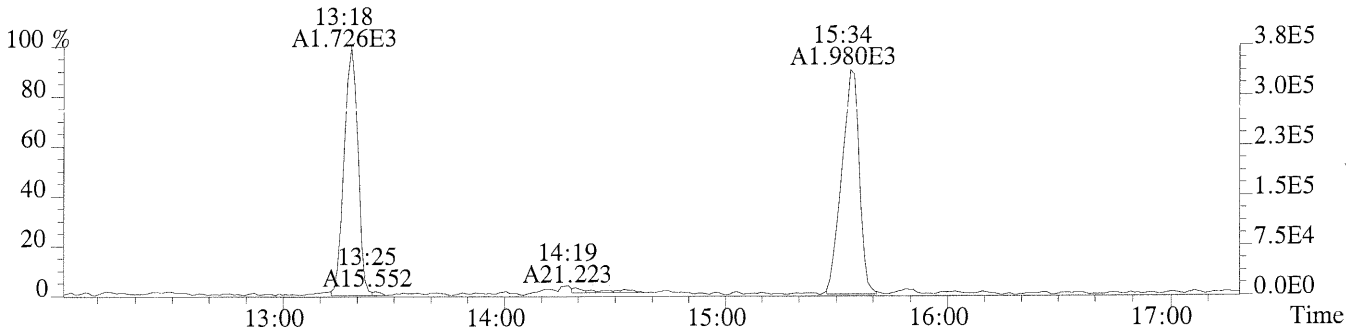
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1260.0,1.00%,F,T)



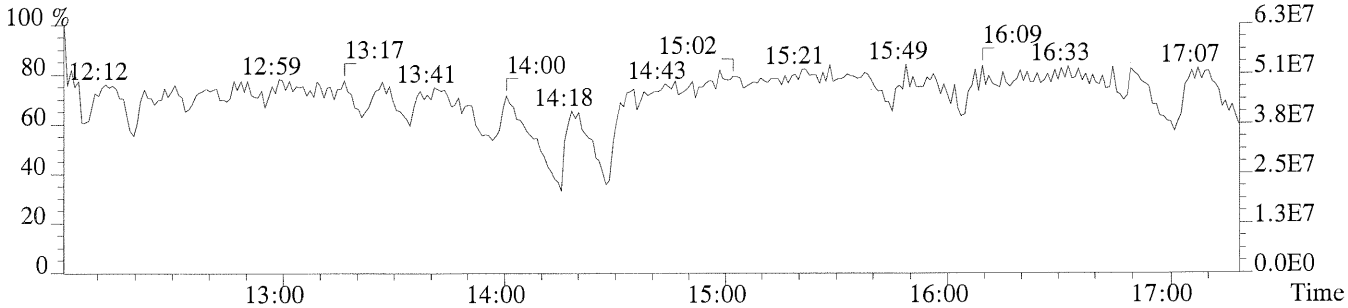
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1840.0,1.00%,F,T)



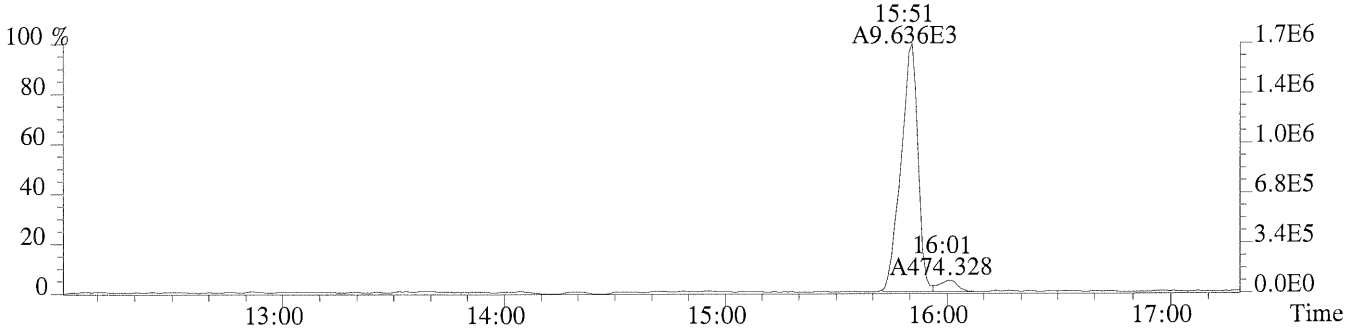
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4436.0,1.00%,F,T)



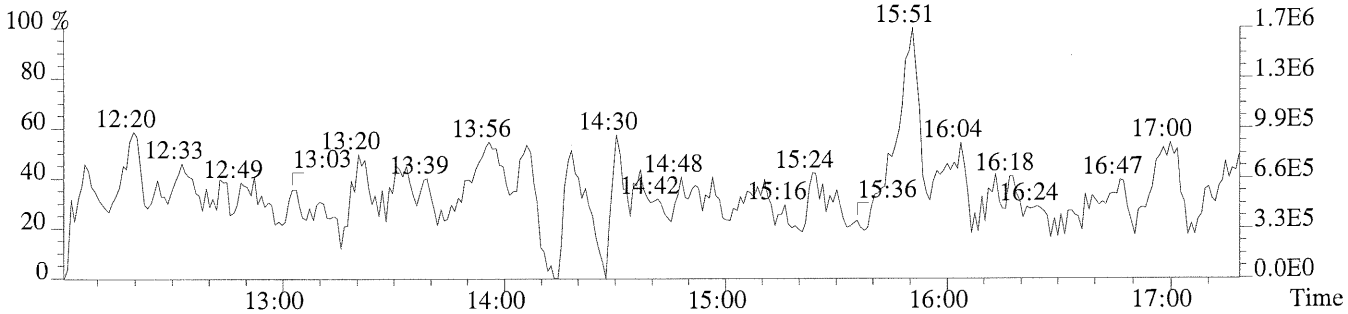
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



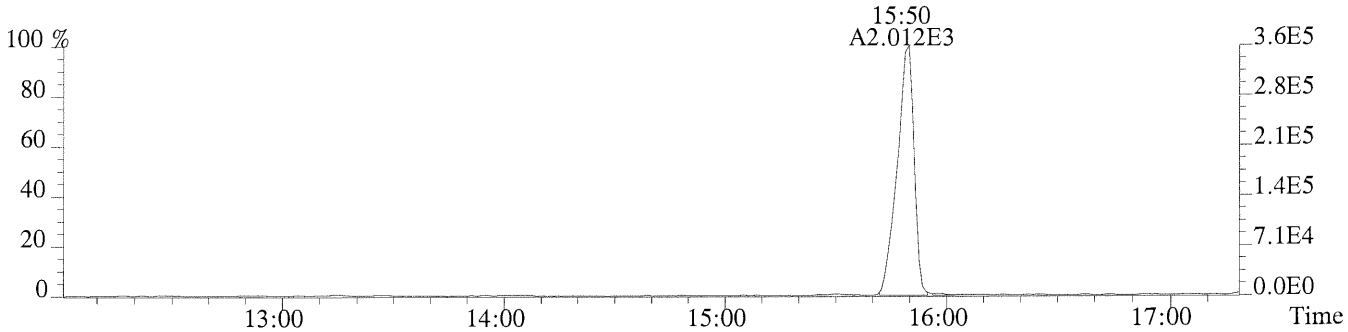
File:U142091 #1-341 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14500.0,1.00%,F,T)



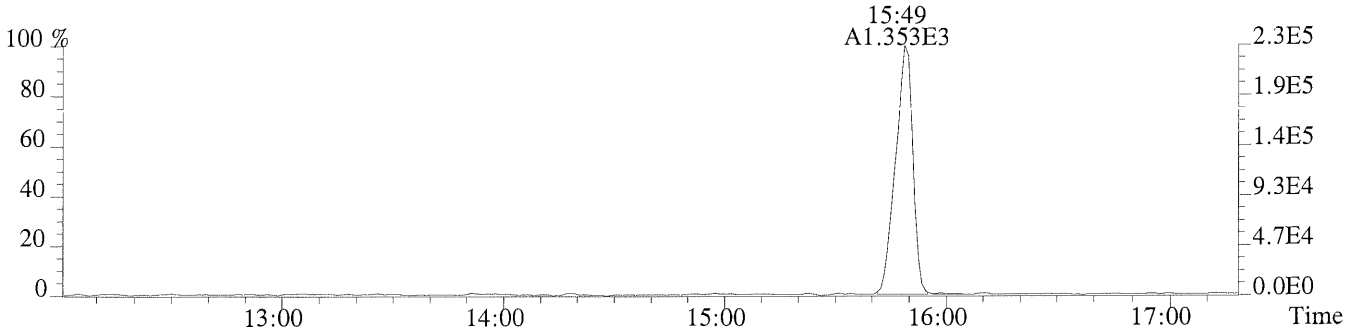
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,738944.0,1.00%,F,T)



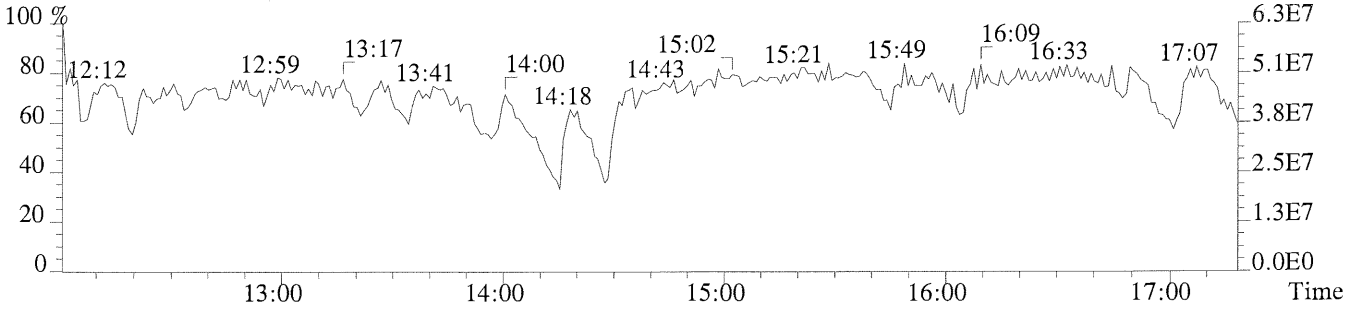
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1604.0,1.00%,F,T)



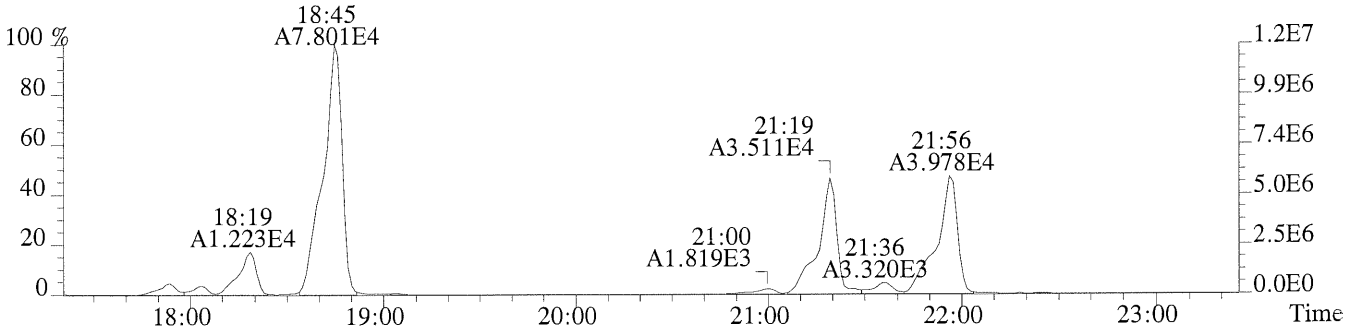
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1880.0,1.00%,F,T)



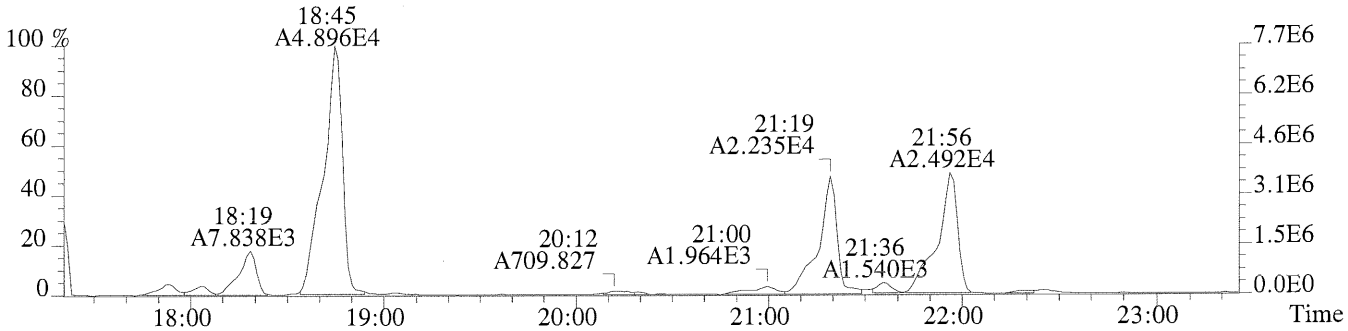
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



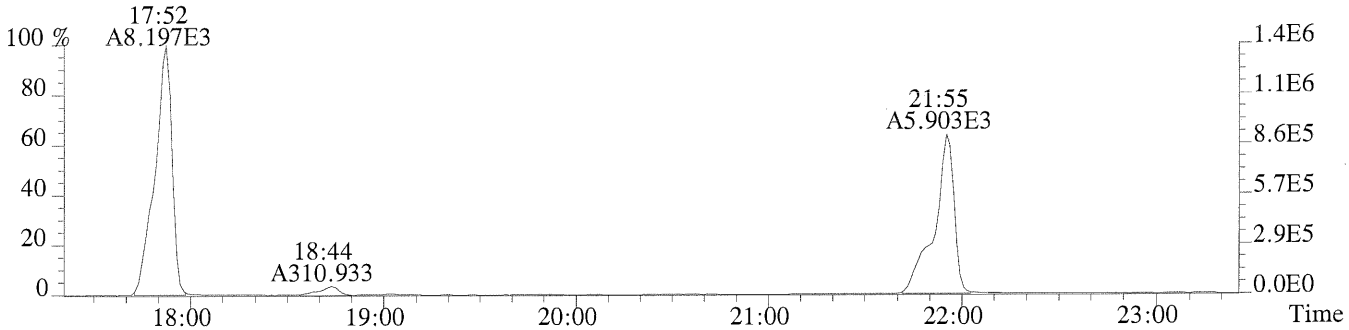
File:U142091 #1-336 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2980.0,1.00%,F,T)



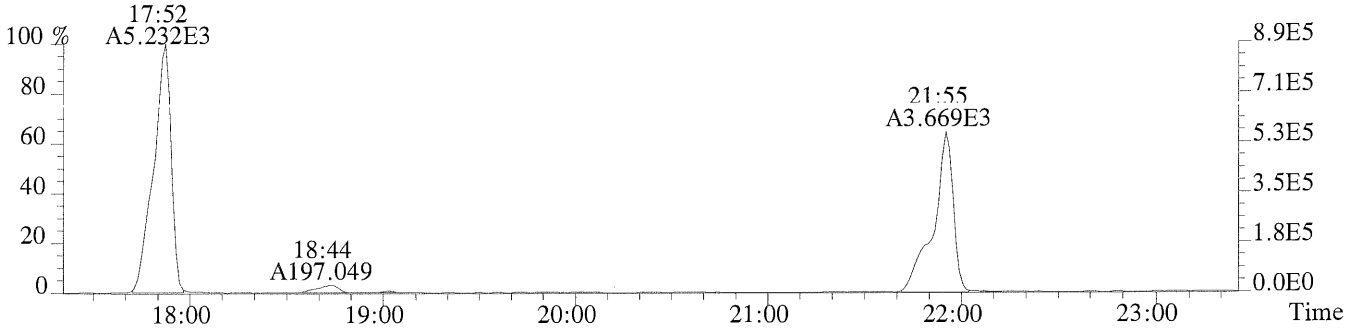
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,27904.0,1.00%,F,T)



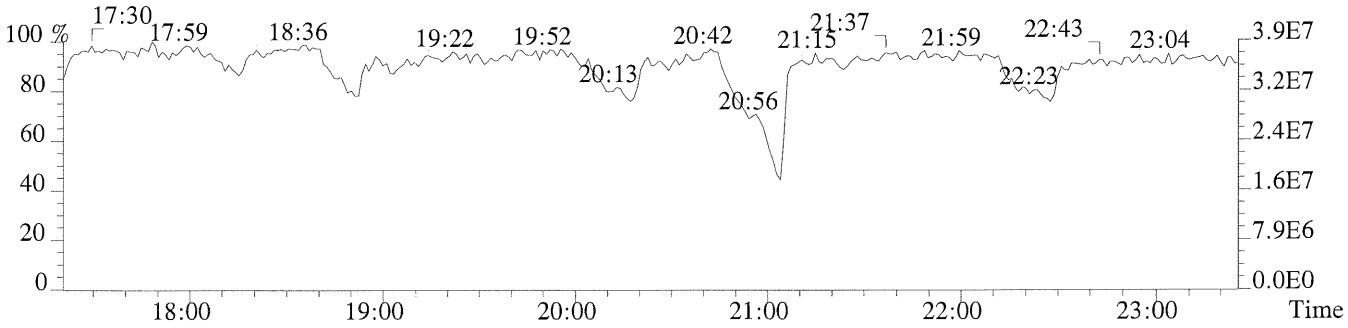
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2876.0,1.00%,F,T)



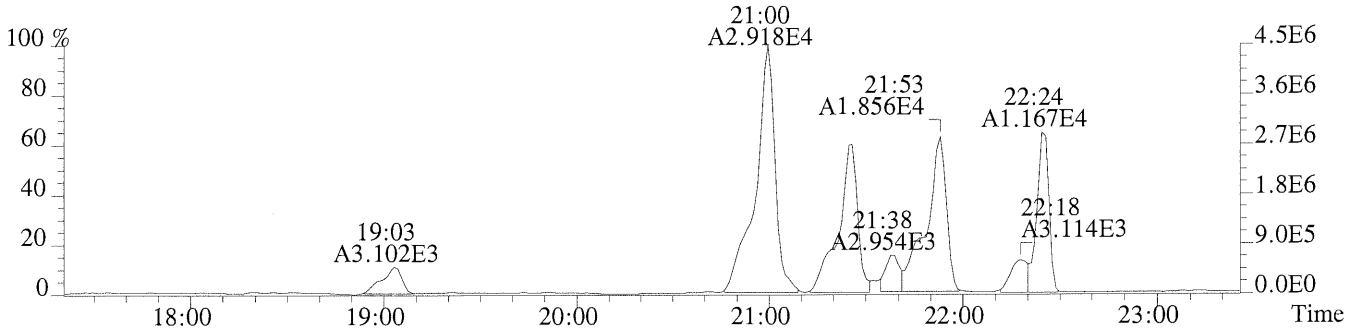
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1712.0,1.00%,F,T)



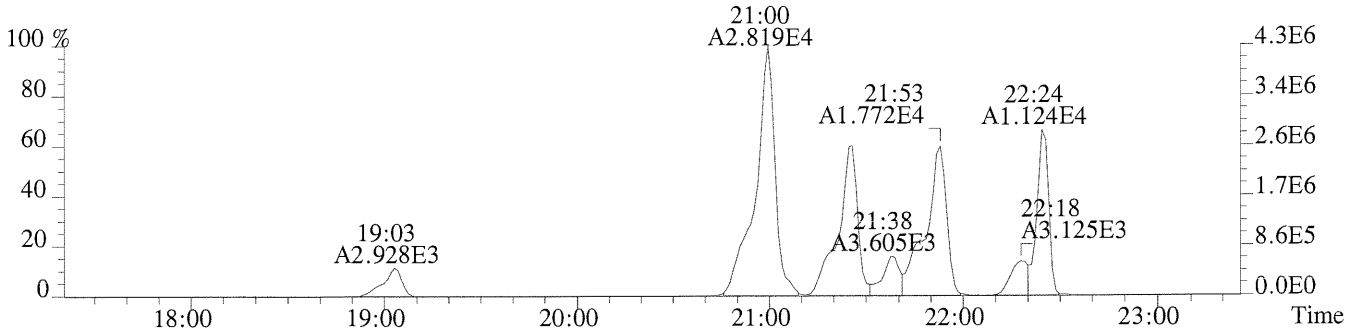
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



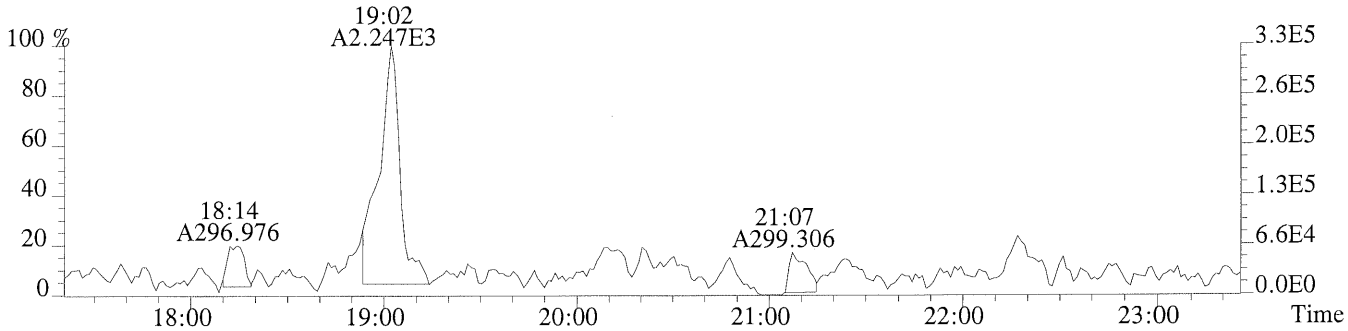
File:U142091 #1-336 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,46712.0,1.00%,F,T)



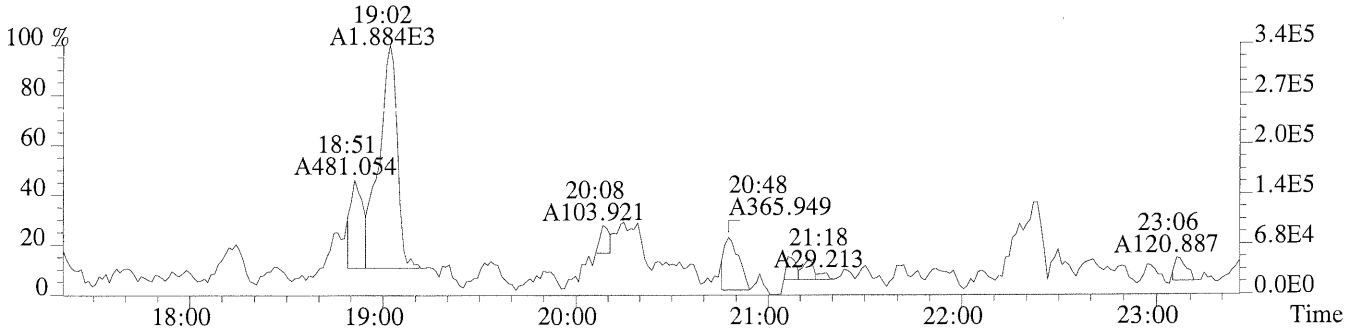
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1920.0,1.00%,F,T)



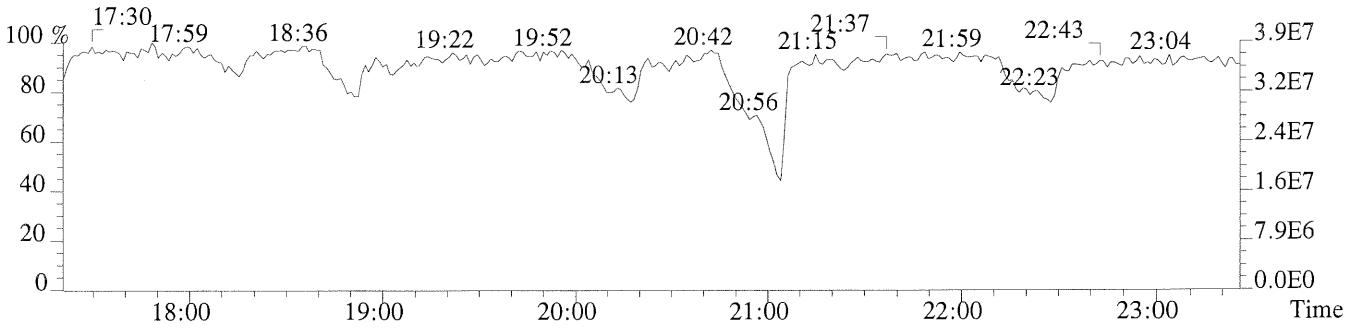
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,33688.0,1.00%,F,T)



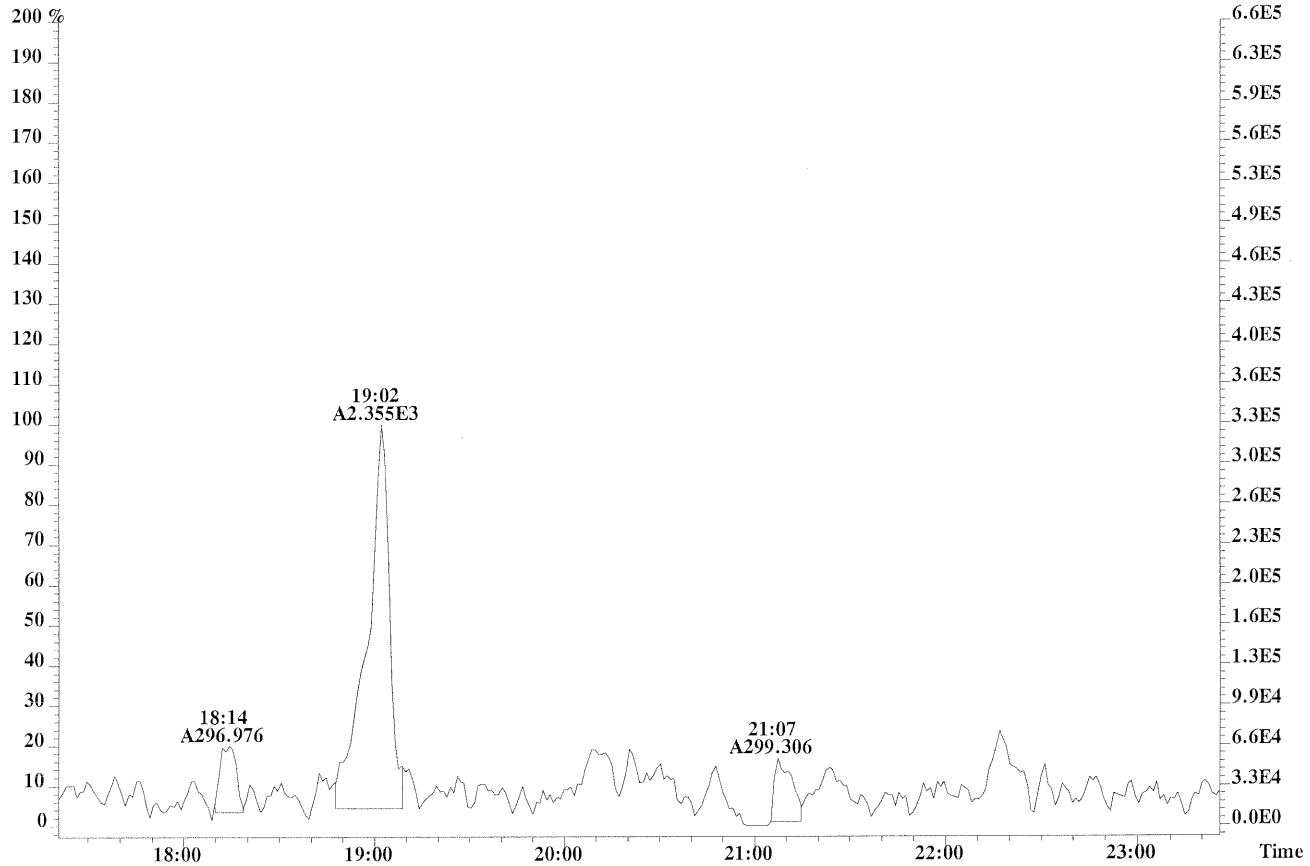
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,35728.0,1.00%,F,T)



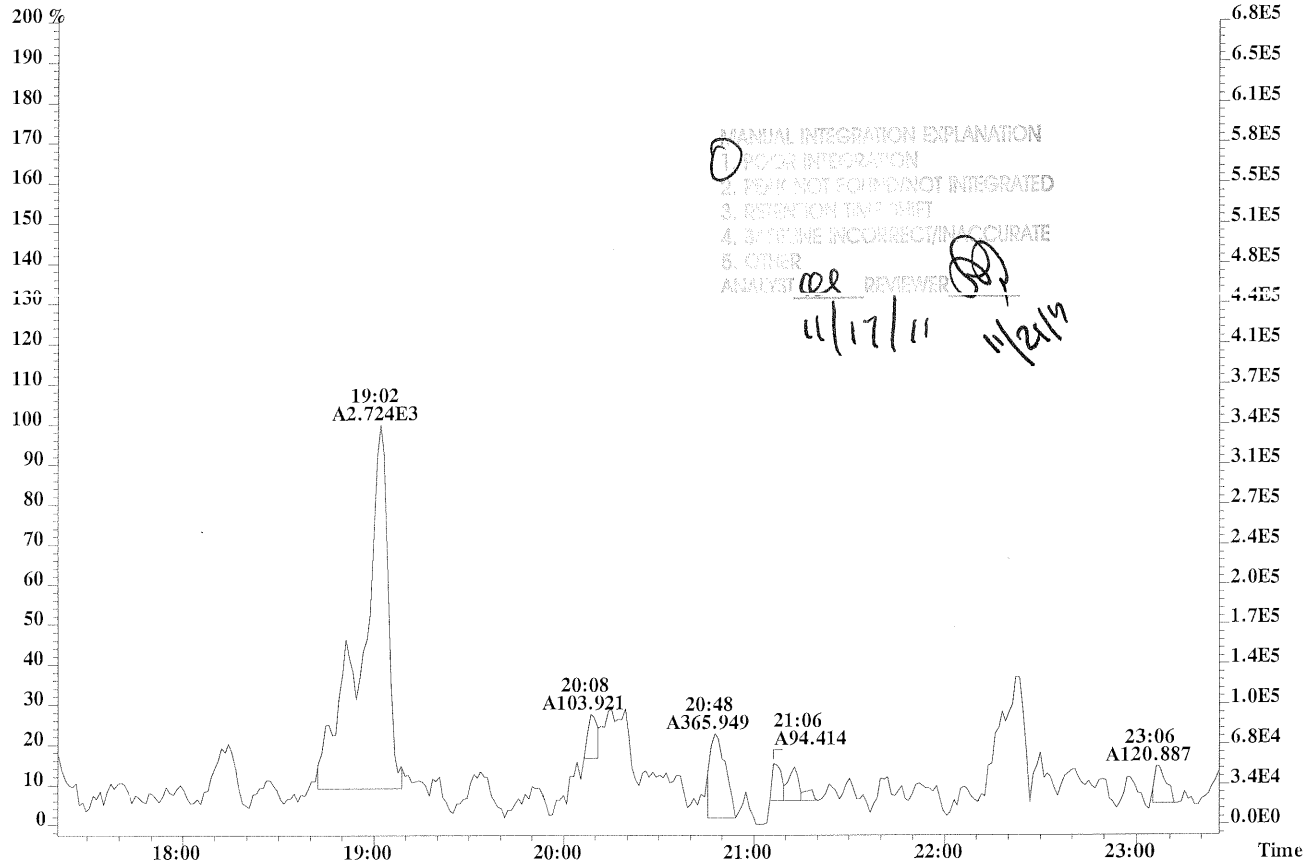
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142091 #1-336 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,33688.0,1.00%,F,T)

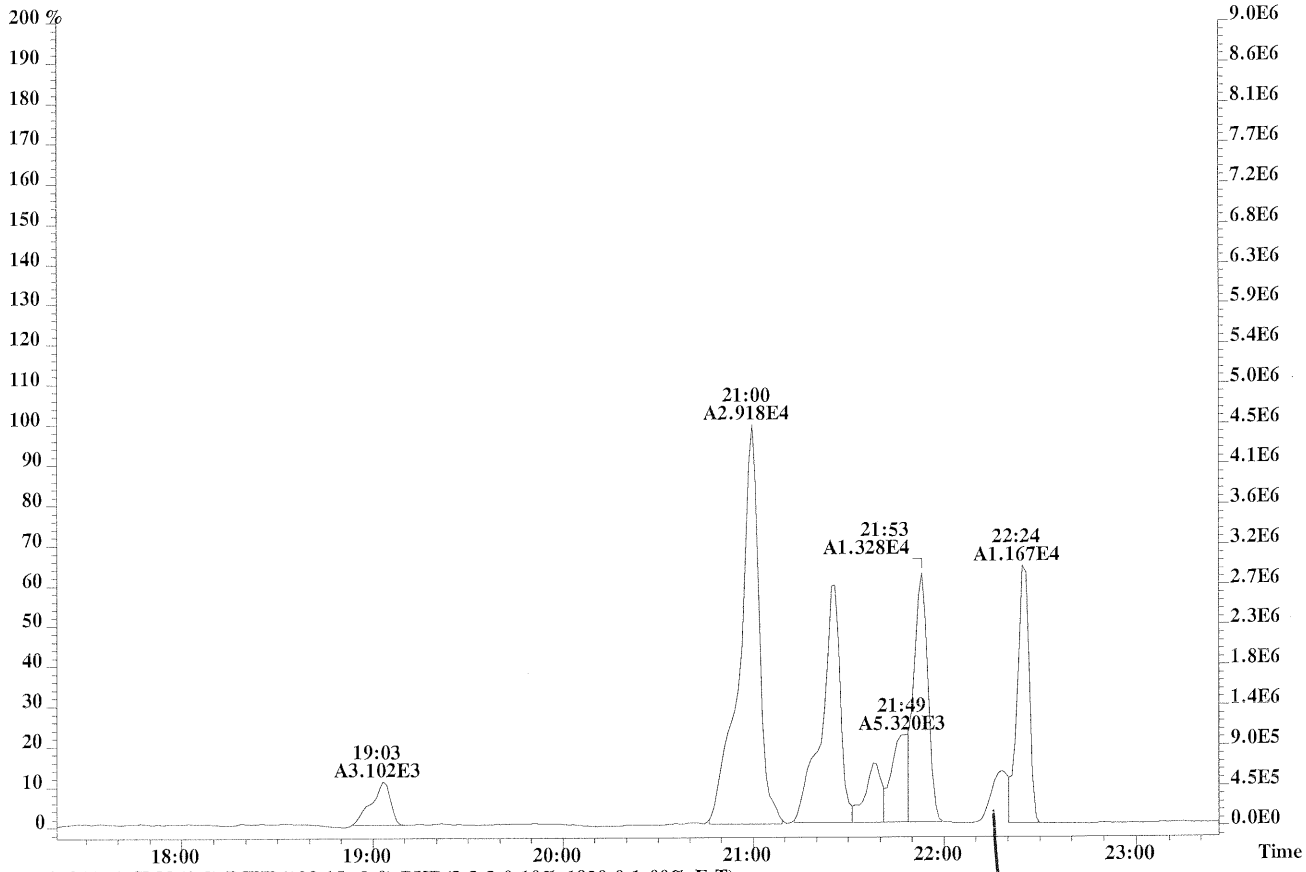


269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,35728.0,1.00%,F,T)



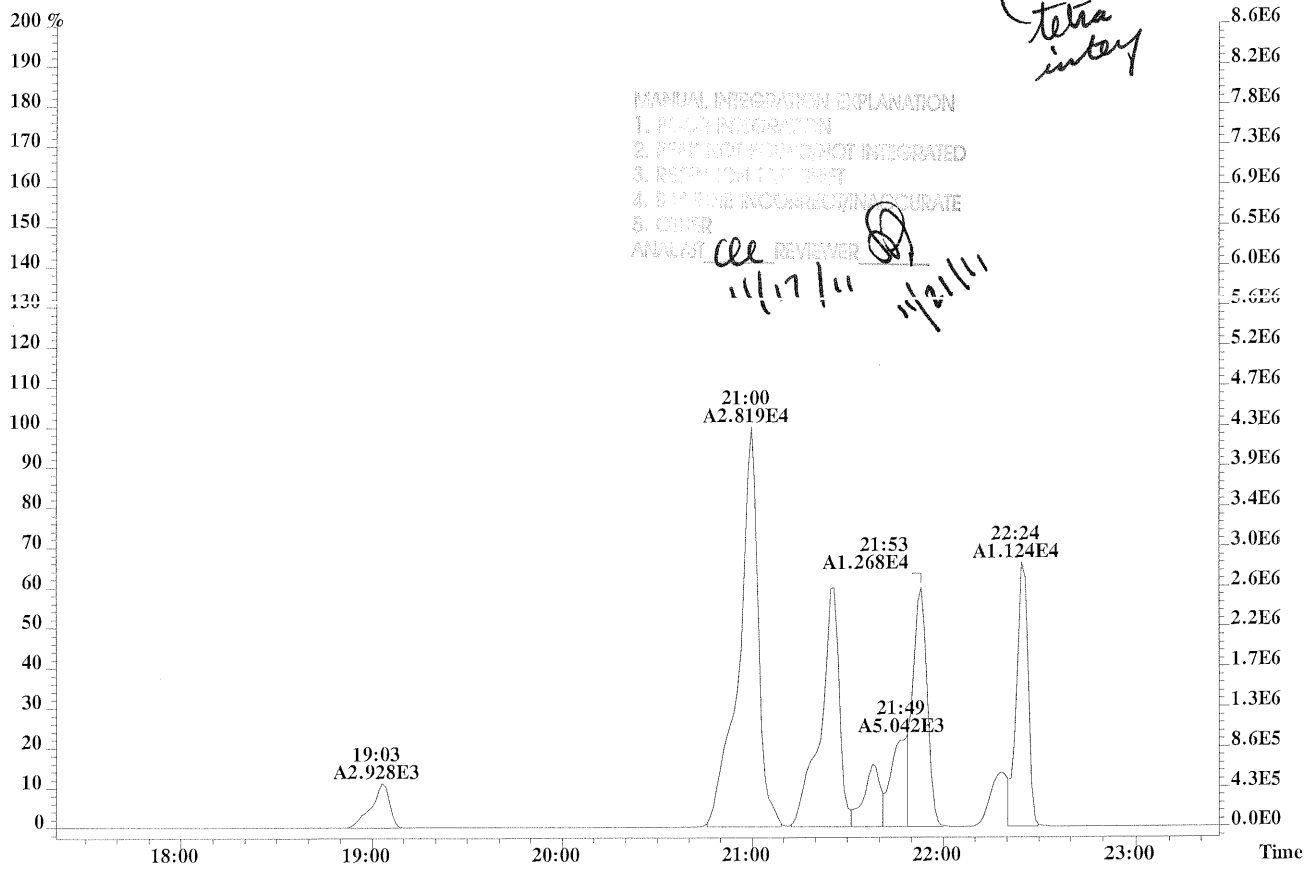
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. SPECTRUM INCORRECT/INACCURATE
5. OTHER
ANALYST DR REVIEWER
11/17/11 11/21/11

File:U142091 #1-336 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,46712.0,1.00%,F,T)



tetra isotopy

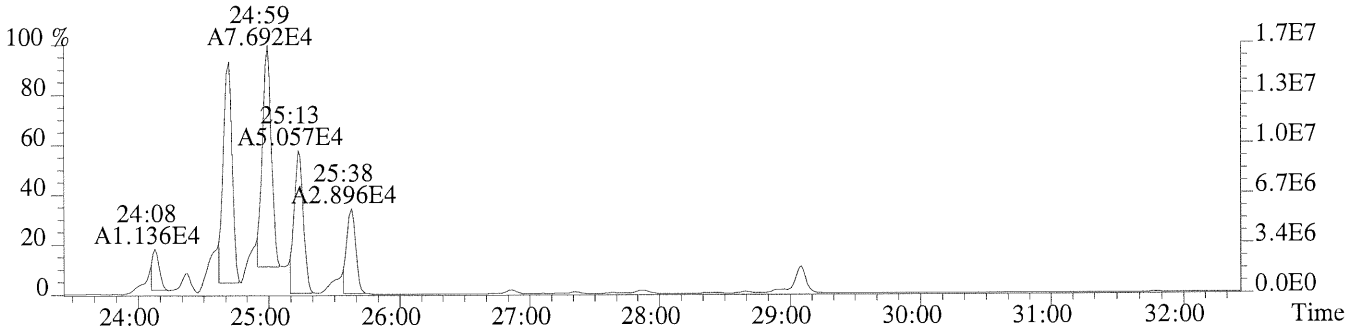
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1920.0,1.00%,F,T)



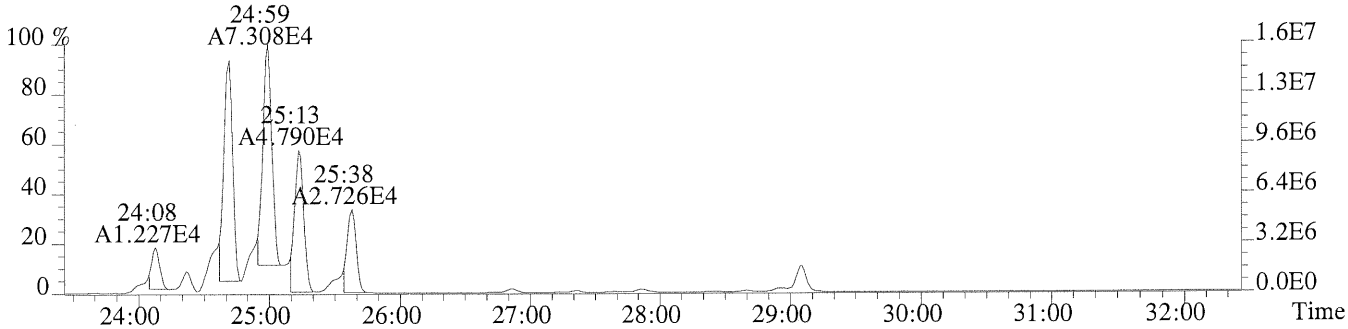
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cle 11/17/11 REVIEWER 11/21/11

File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-

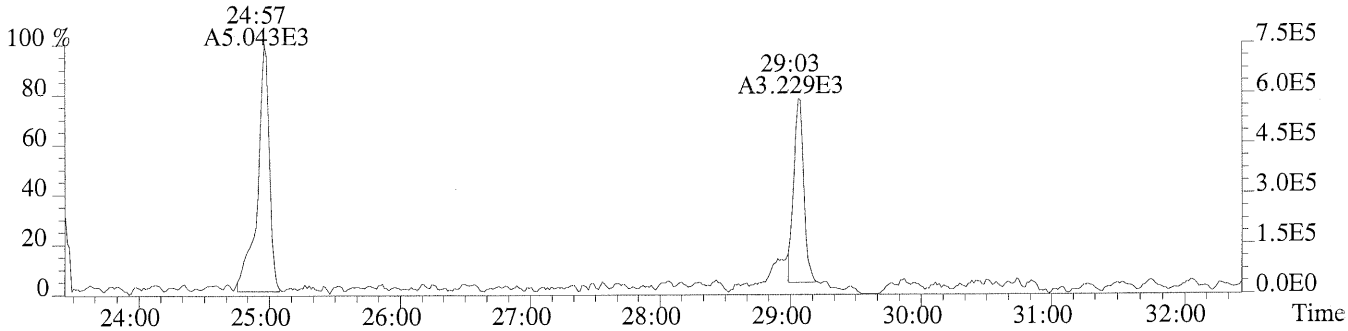
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1085528.0,1.00%,F,T)



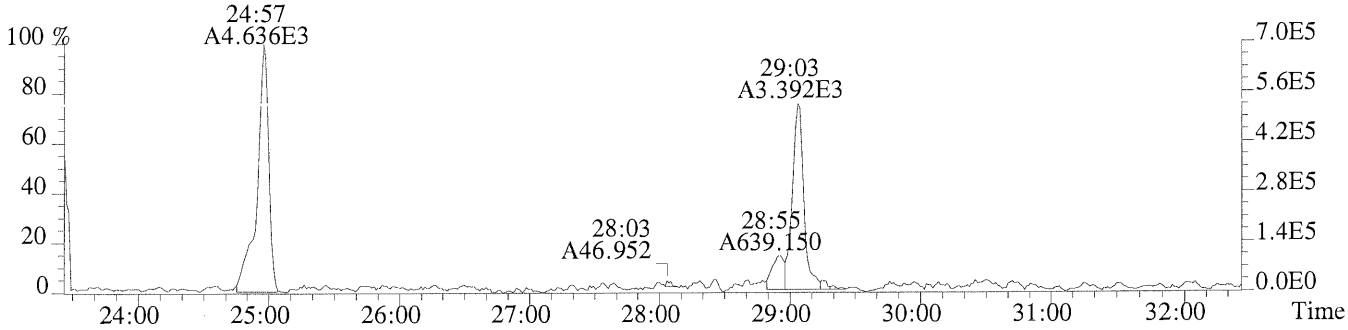
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1033008.0,1.00%,F,T)



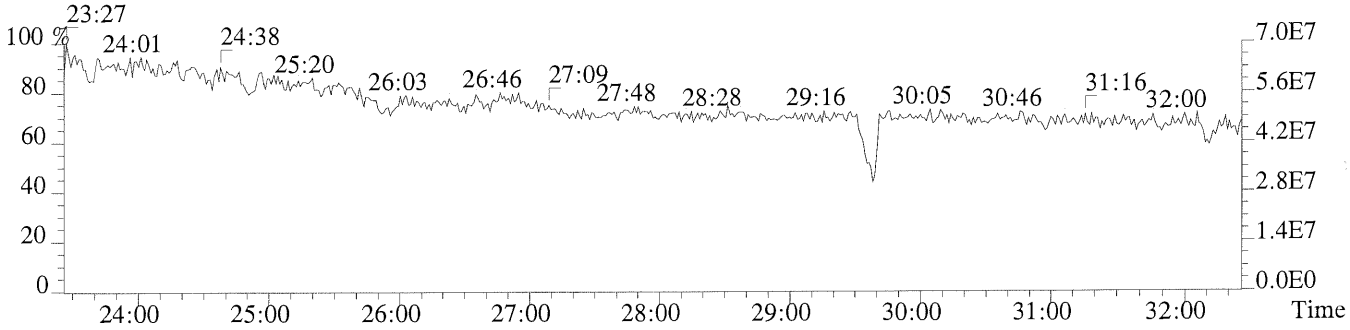
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,28156.0,1.00%,F,T)



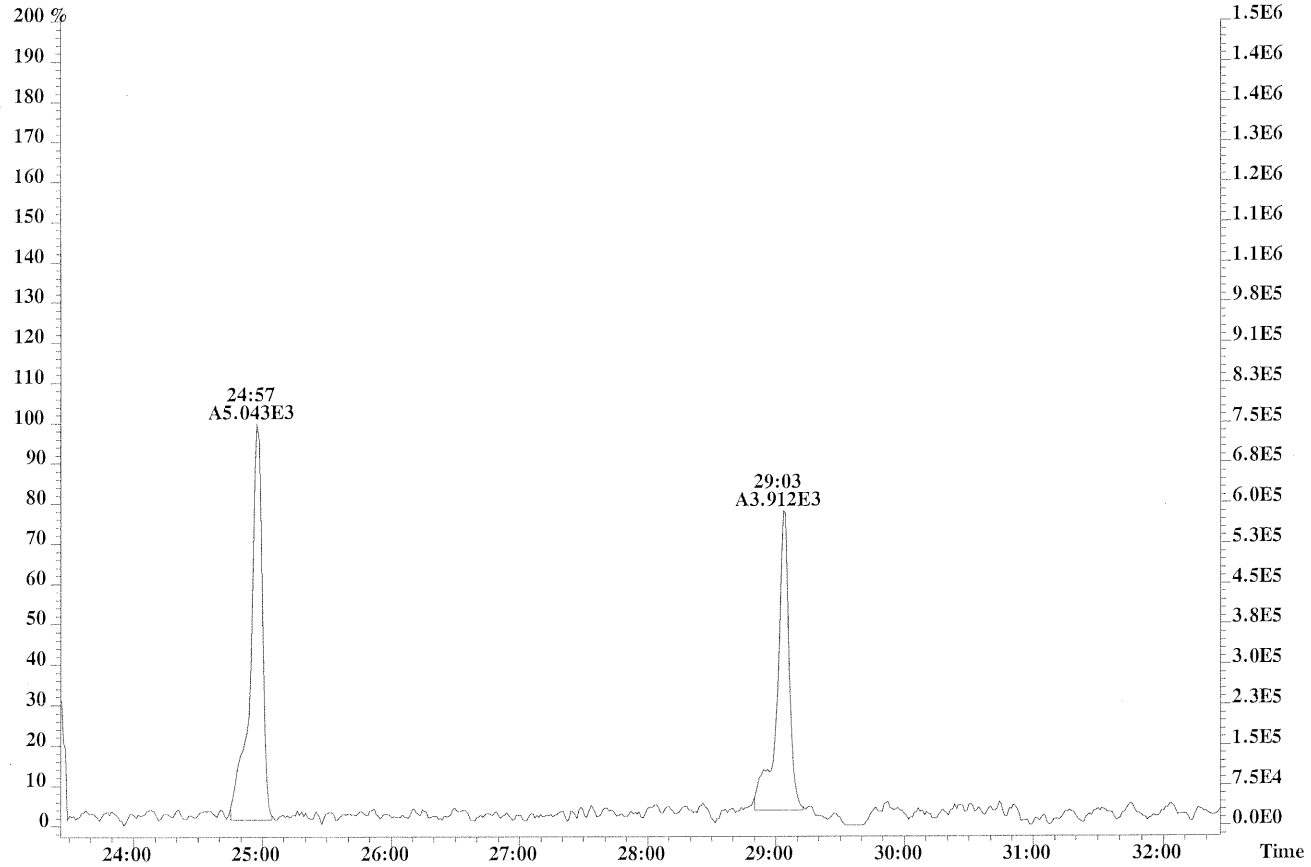
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14724.0,1.00%,F,T)



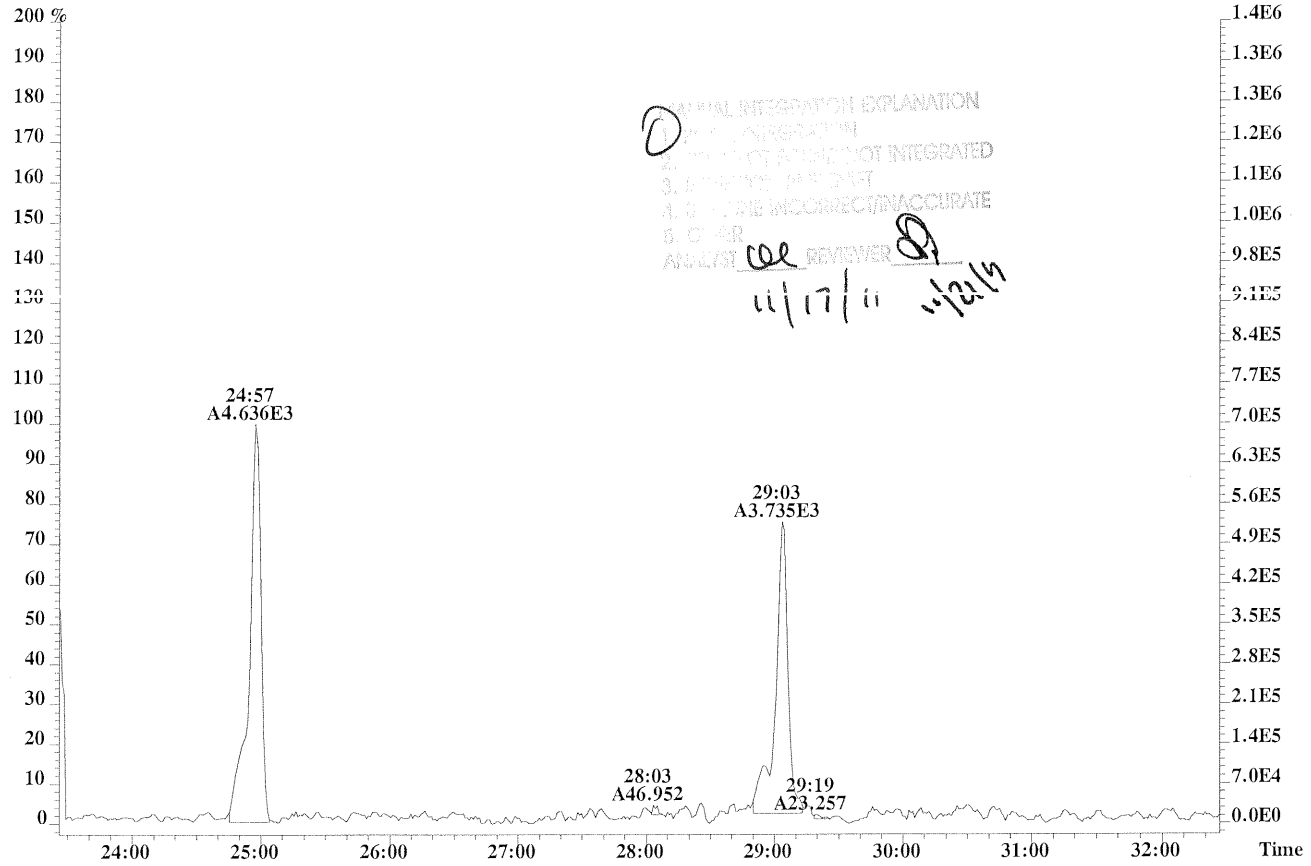
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



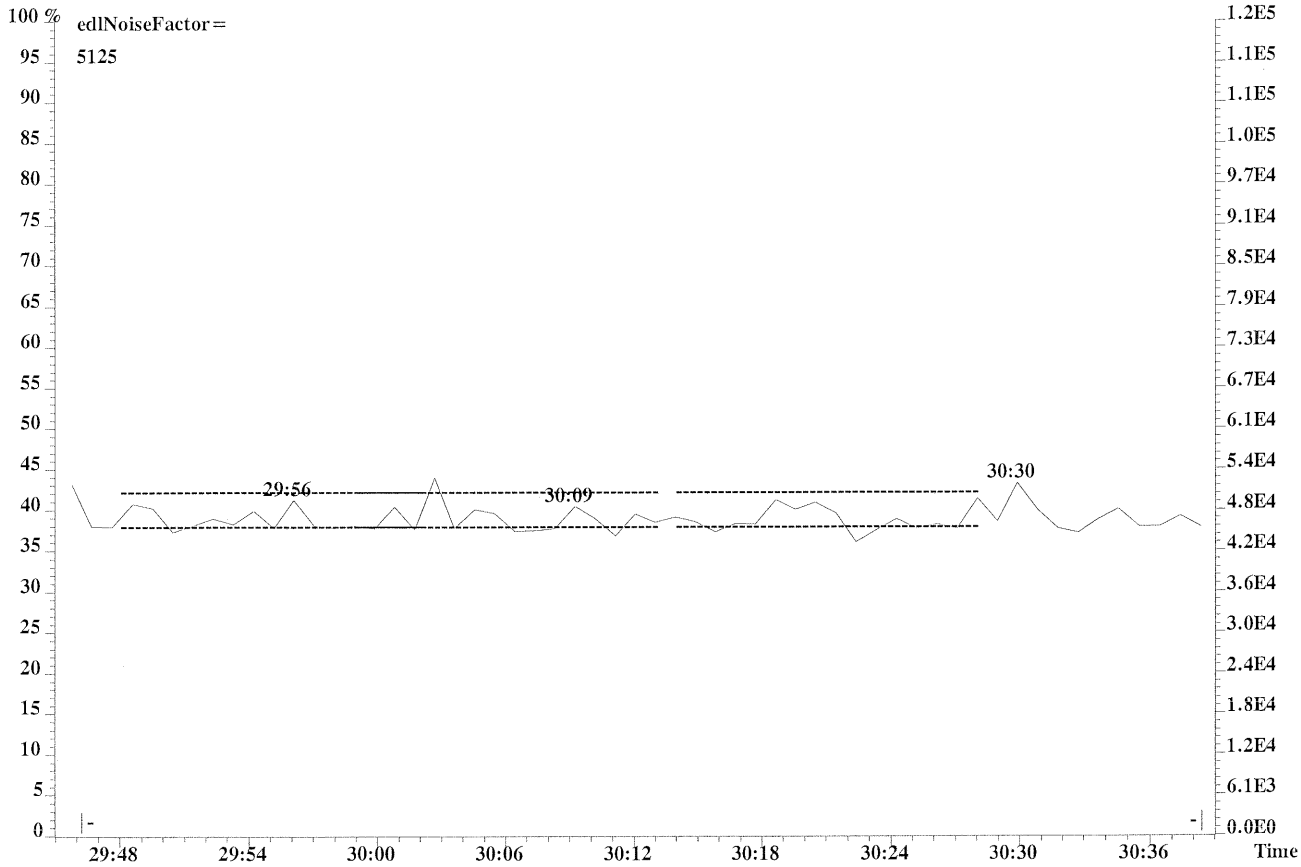
File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,28156.0,1.00%,F,T)



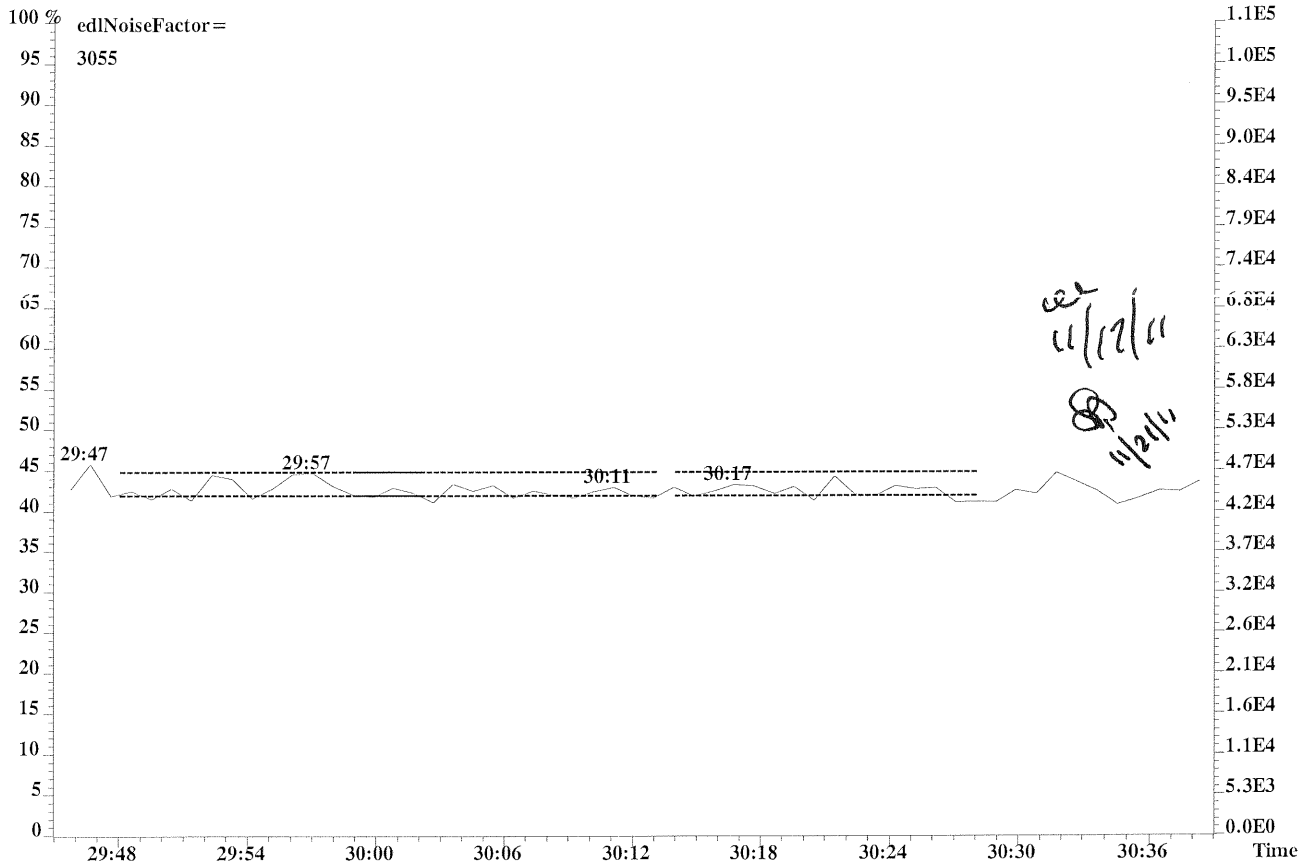
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14724.0,1.00%,F,T)



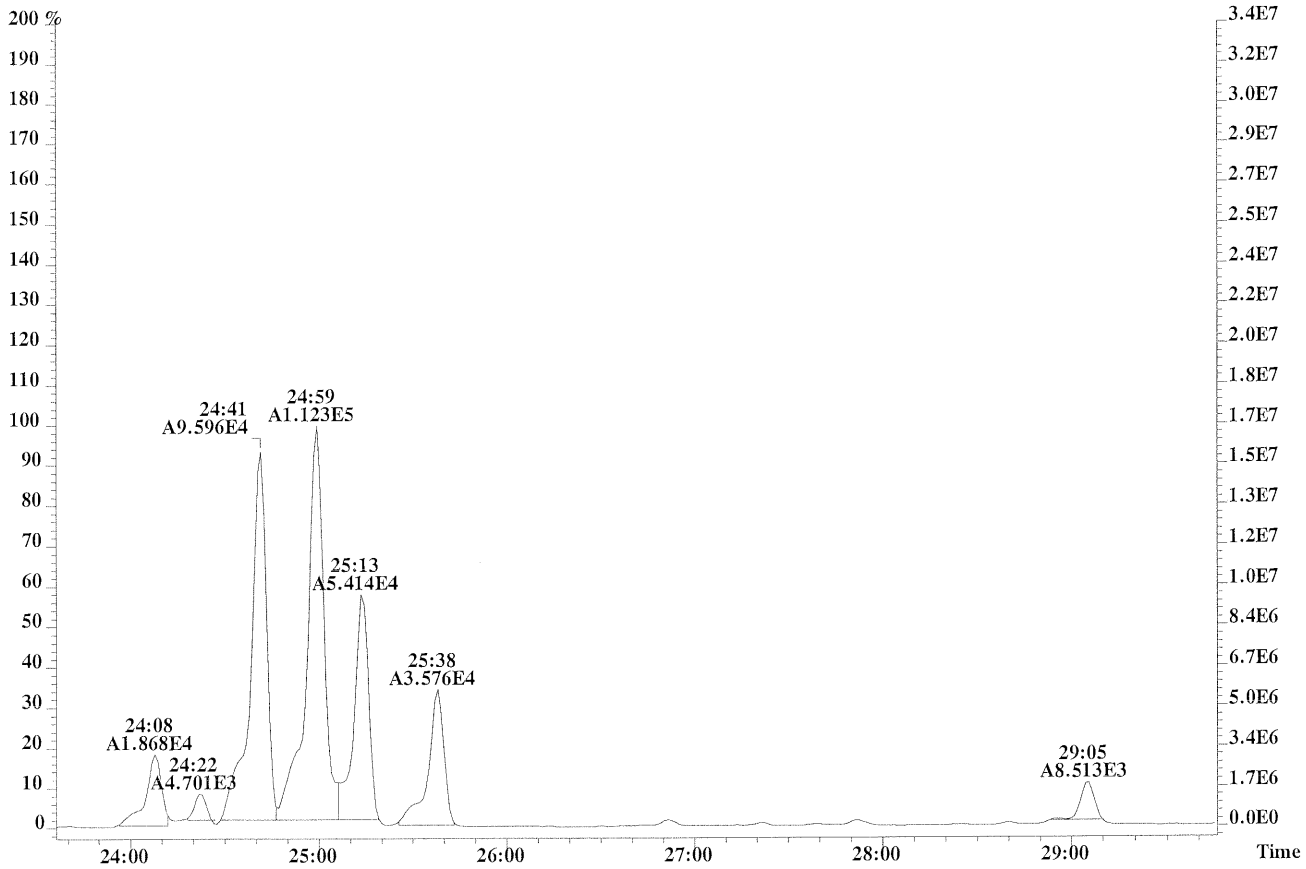
File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
255.9613 F:3



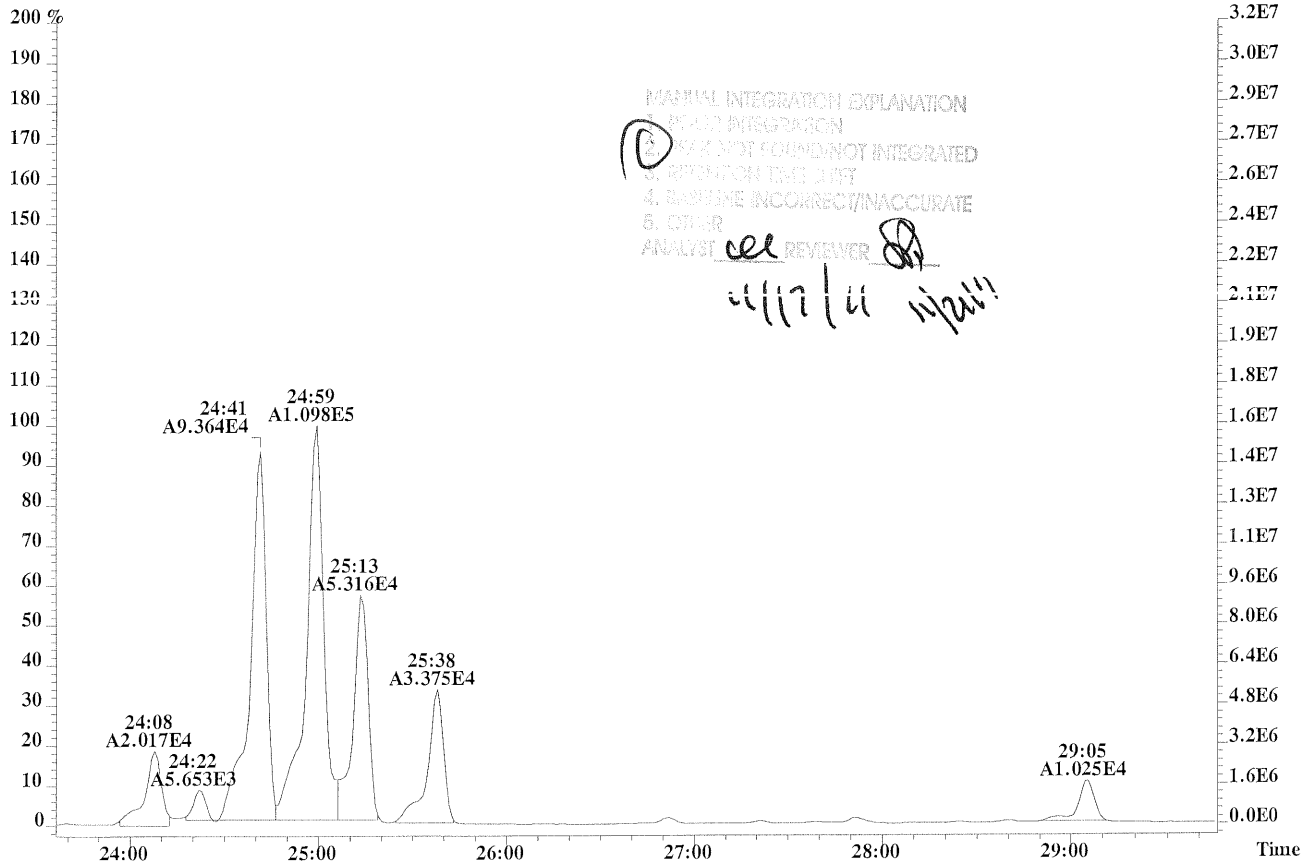
257.9584 F:3



File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1085528.0,1.00%,F,T)



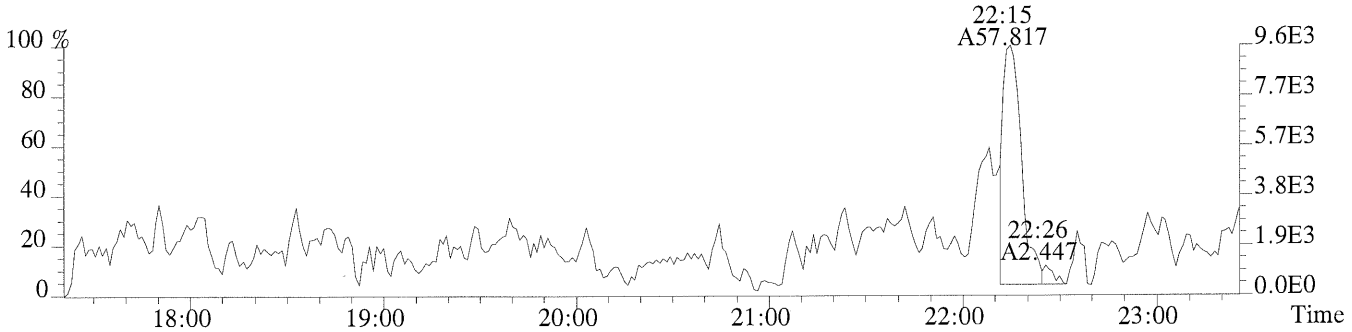
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1033008.0,1.00%,F,T)



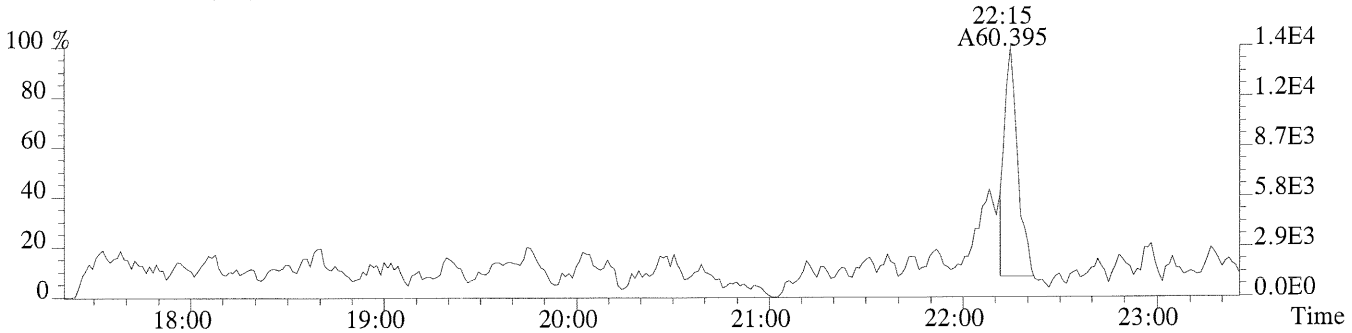
MANUAL INTEGRATION EXPLANATION
1. BASELINE INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cel REVIEWER
11/17/11 11/21/11

File:U142091 #1-336 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-

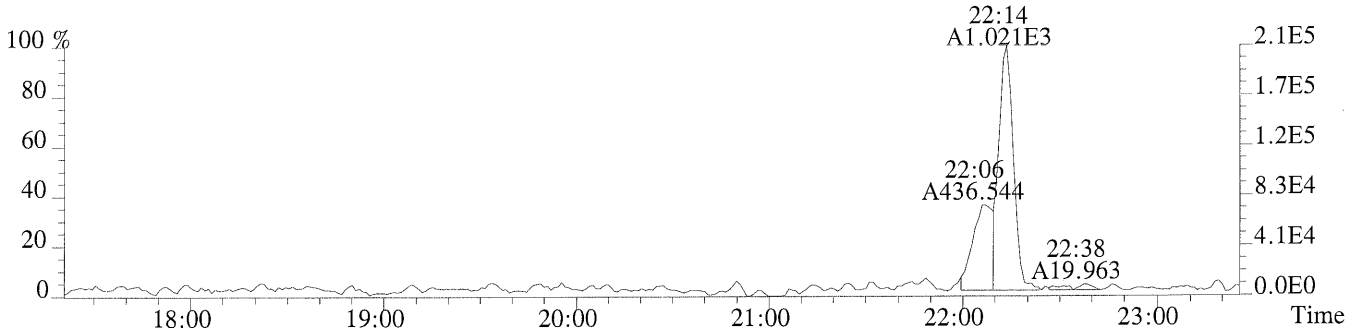
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2496.0,1.00%,F,T)



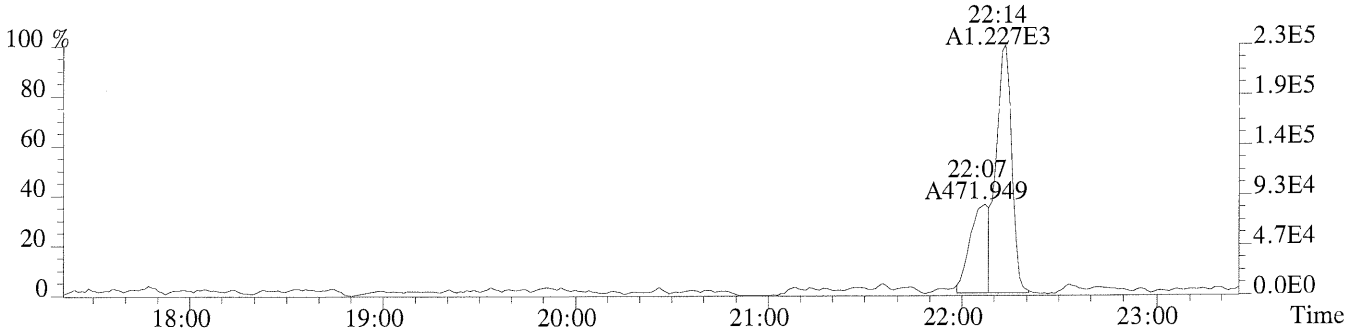
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2116.0,1.00%,F,T)



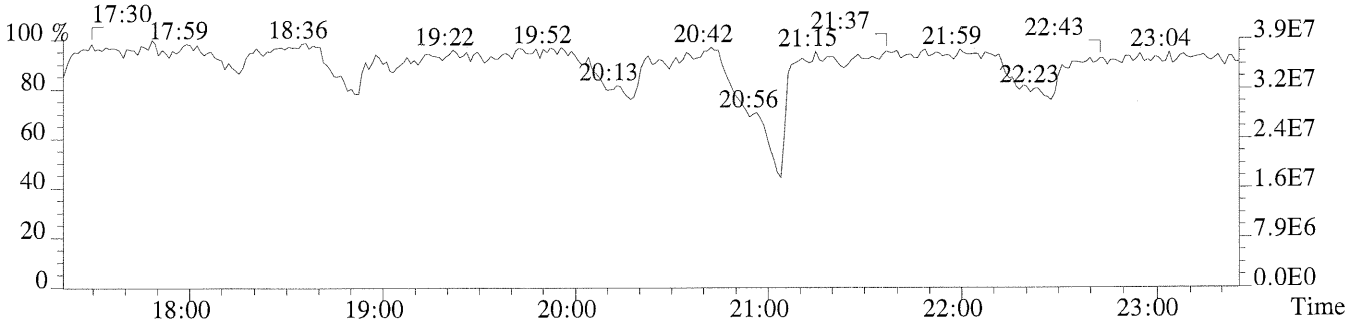
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8220.0,1.00%,F,T)



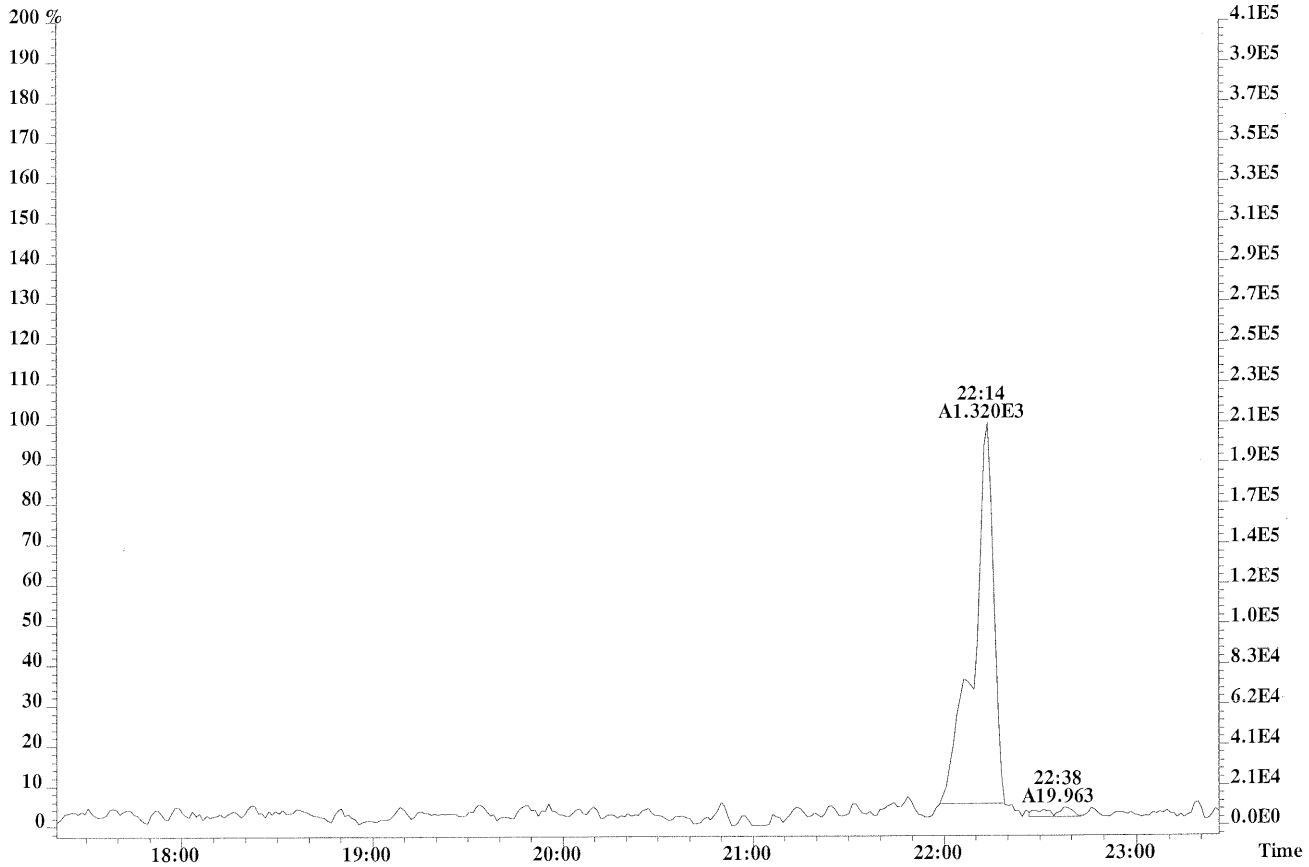
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6320.0,1.00%,F,T)



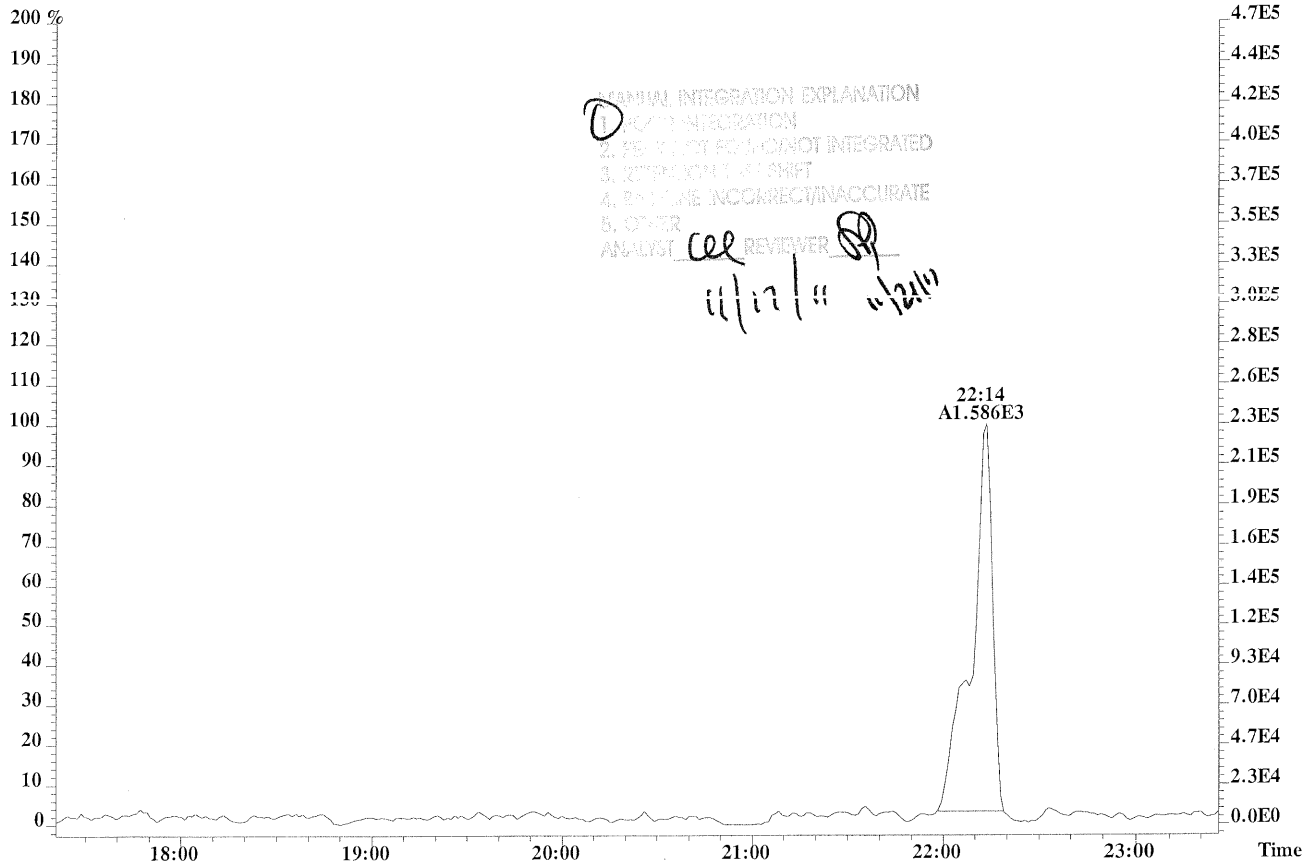
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142091 #1-336 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8220.0,1.00%,F,T)

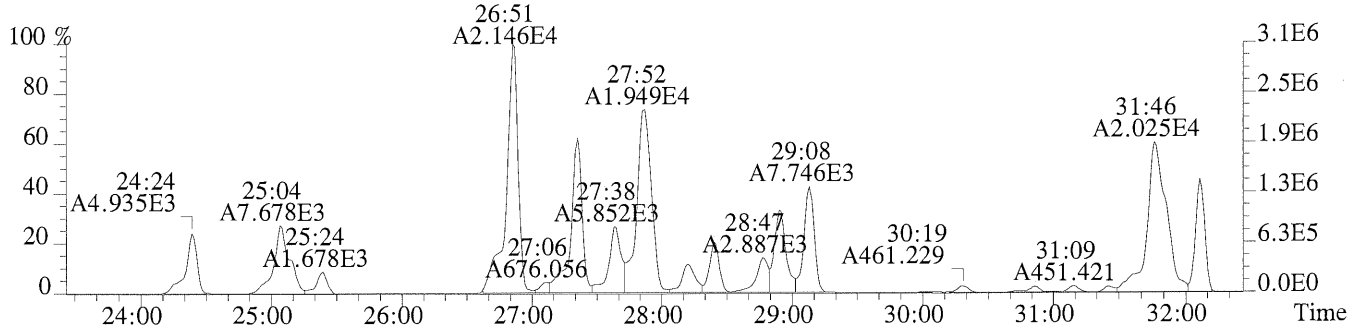


303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6320.0,1.00%,F,T)

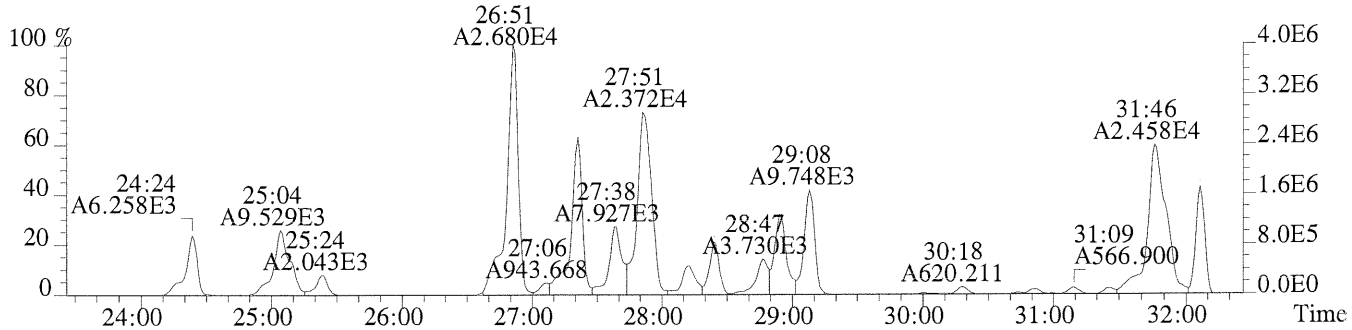


MANUAL INTEGRATION EXPLANATION
1. NO INTEGRATION
2. PEAK WAS NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cel REVIEWER
11/17/11 11/22/11

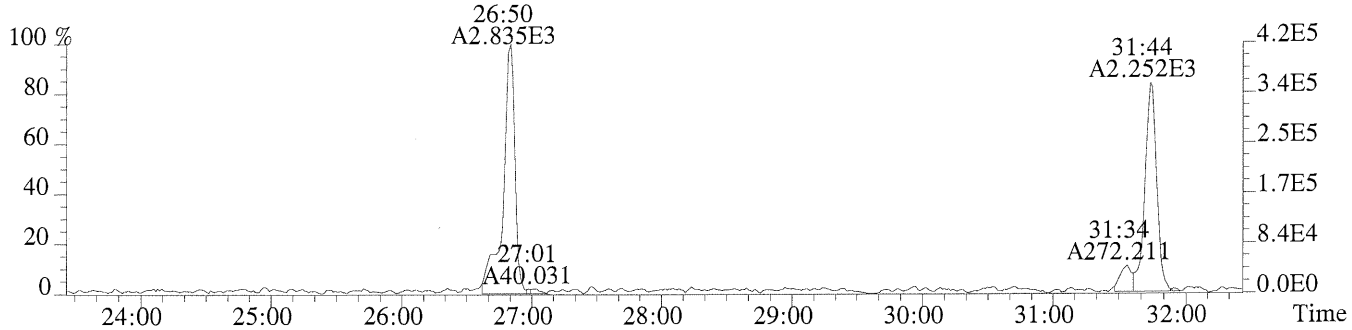
File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1196.0,1.00%,F,T)



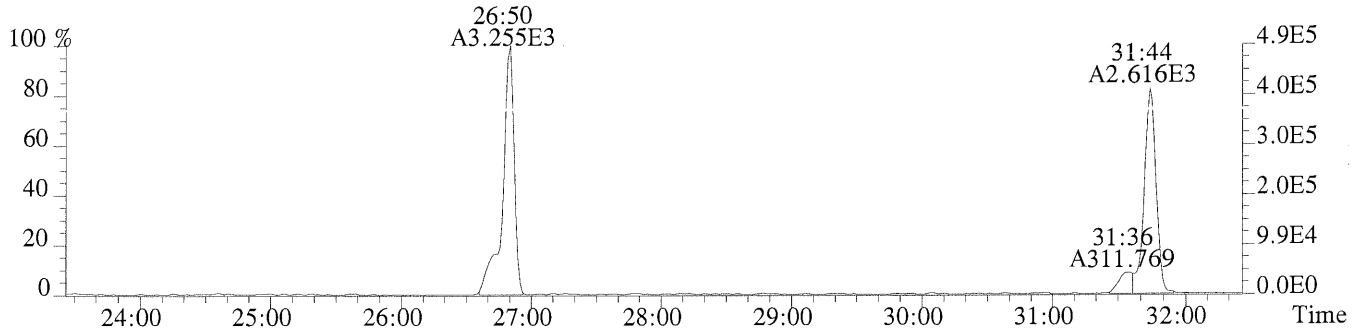
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1780.0,1.00%,F,T)



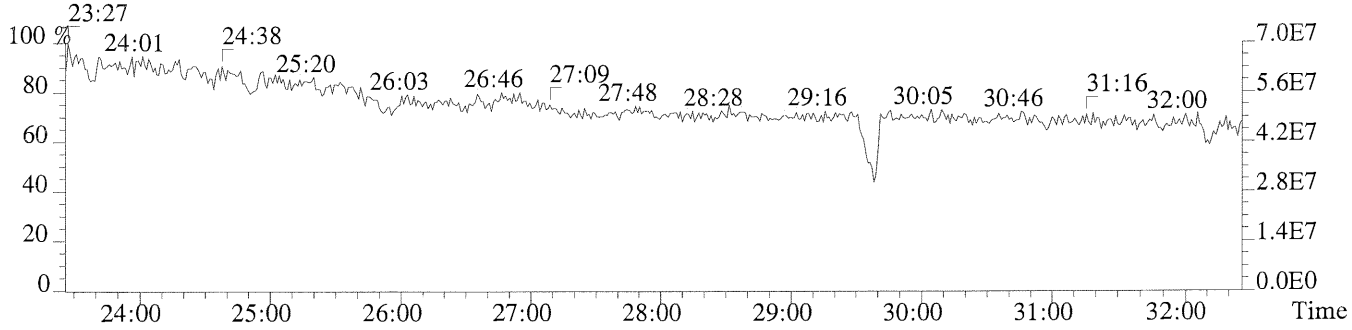
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7364.0,1.00%,F,T)



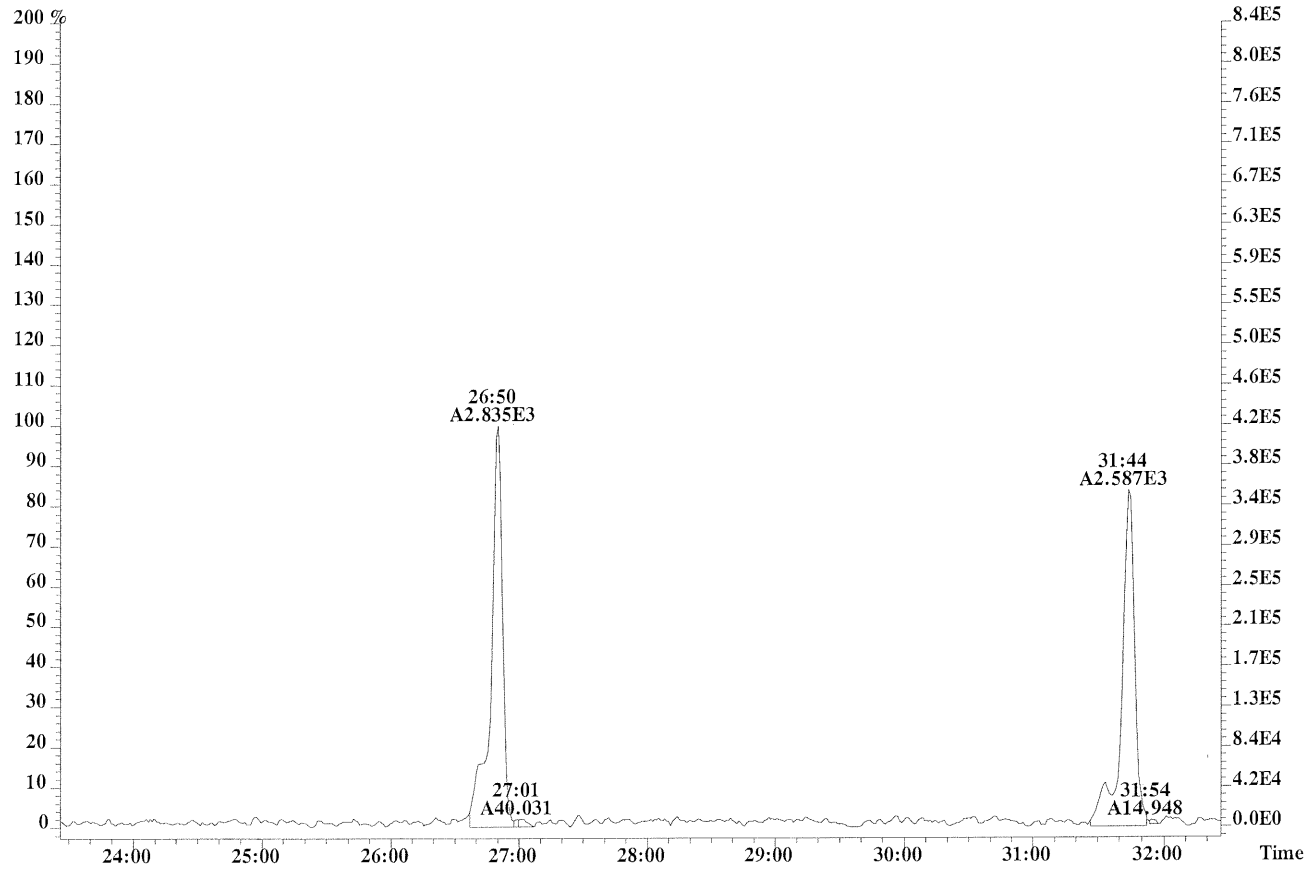
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2420.0,1.00%,F,T)



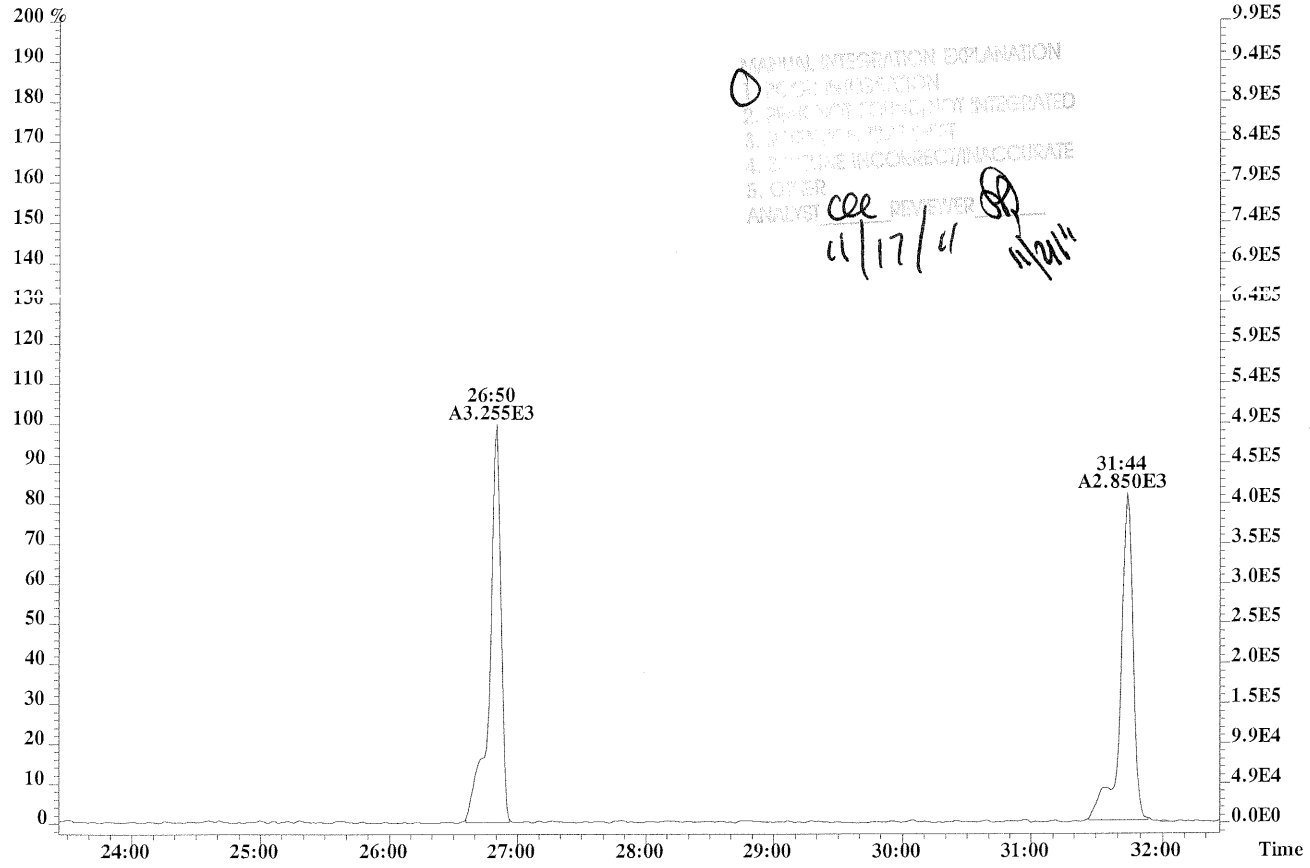
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7364.0,1.00%,F,T)

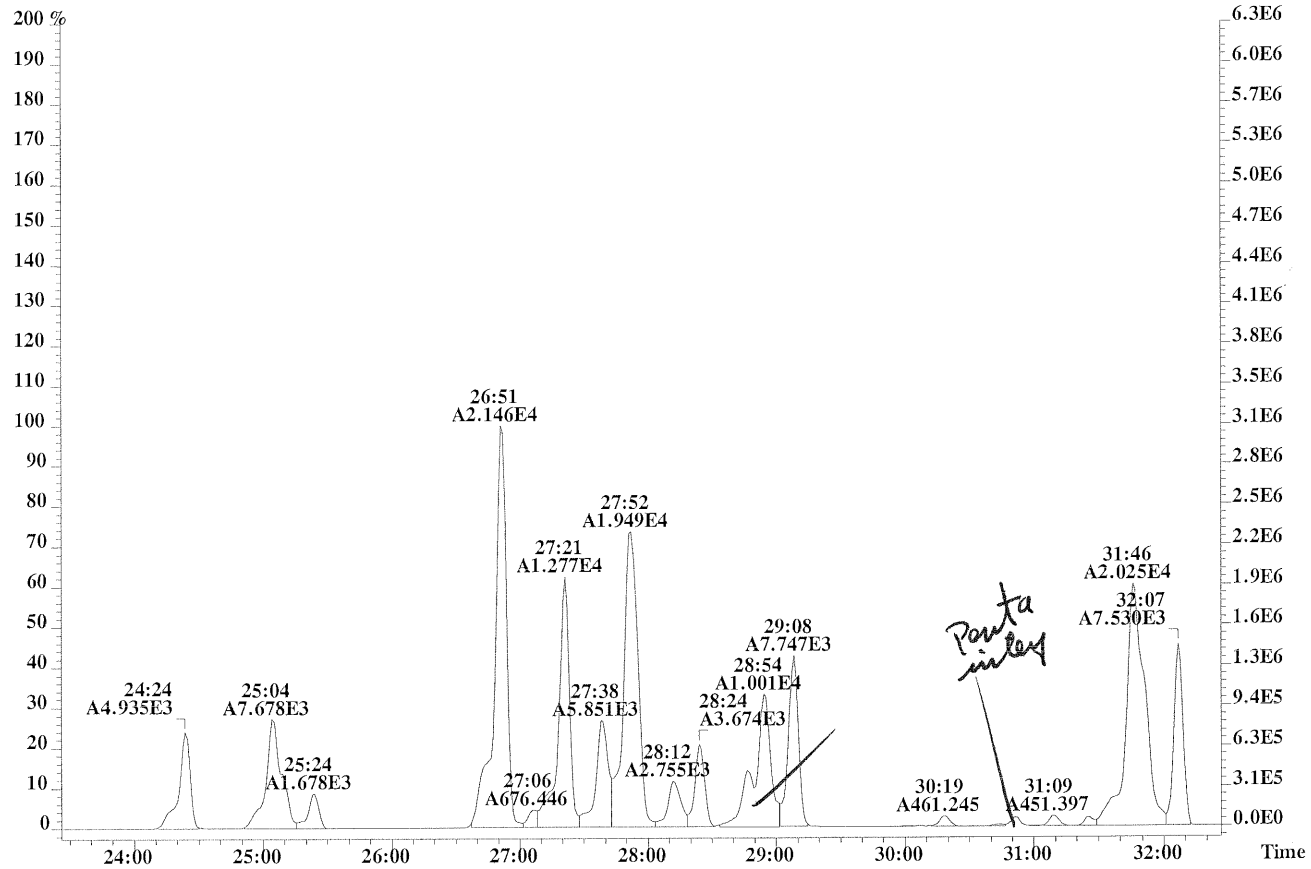


303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2420.0,1.00%,F,T)

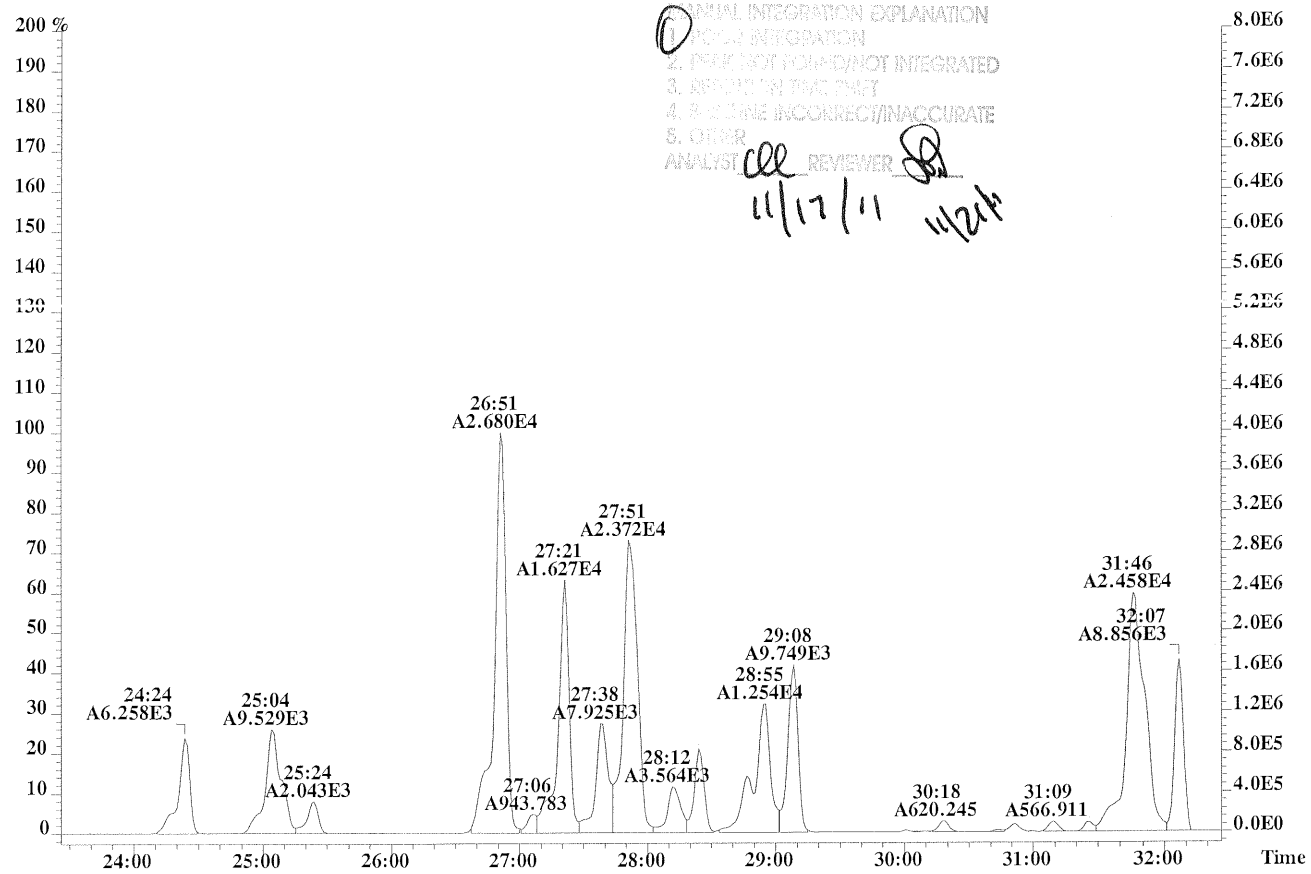


MANUAL INTEGRATION EXPLANATION
1. PEAK NOT FOUND/NOT INTEGRATED
2. INCORRECT PEAK SHAPE
3. BASELINE INCORRECT/INACCURATE
4. OTHER
ANALYST cee 11/17/11 REVIEWER 11/21/11

File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0)

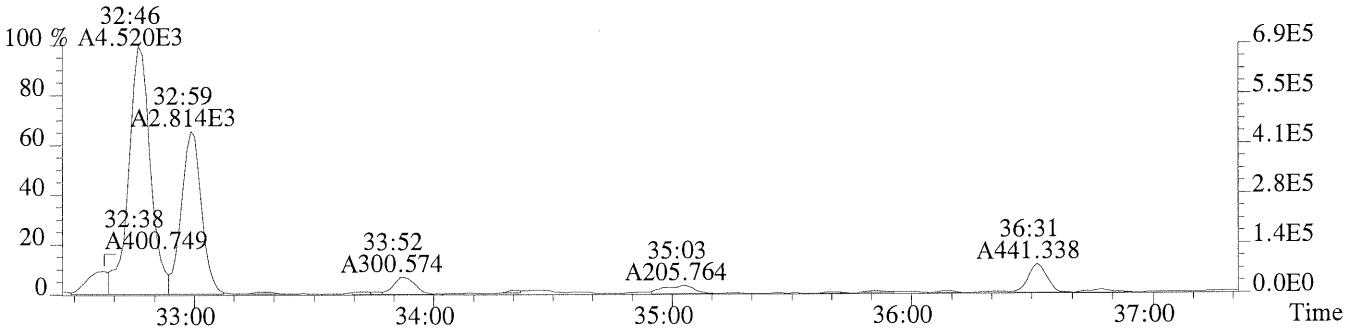


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0)

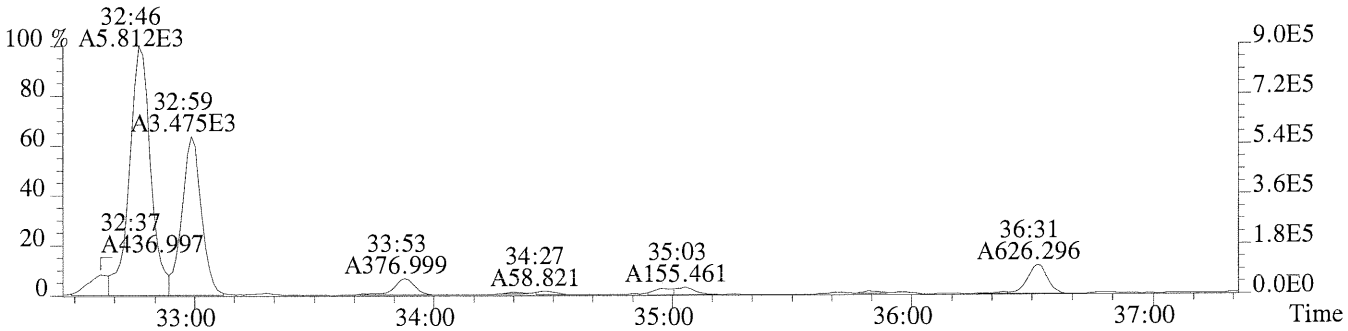


MANUAL INTEGRATION EXPLANATION
1. NOVEL INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. INPUT ON TRACE SHEET
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cll REVIEWER SA
11/17/11 11/21/11

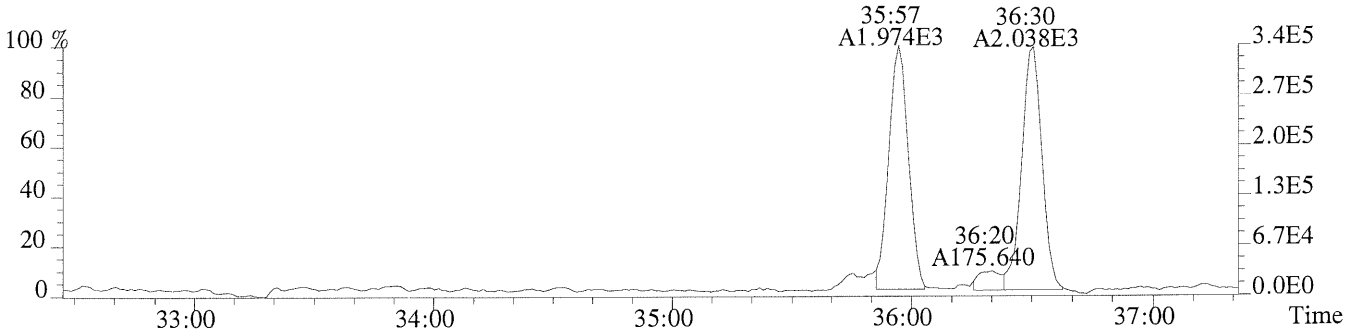
File:U142091 #1-314 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2520.0,1.00%,F,T)



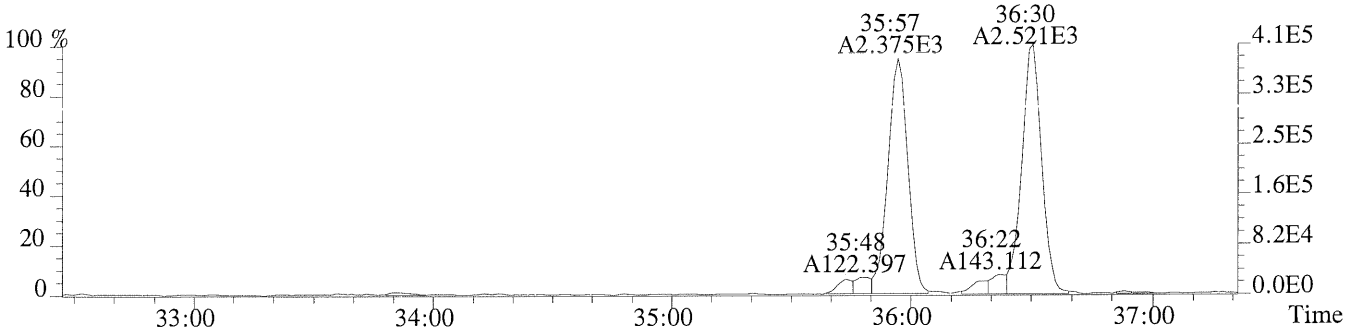
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3076.0,1.00%,F,T)



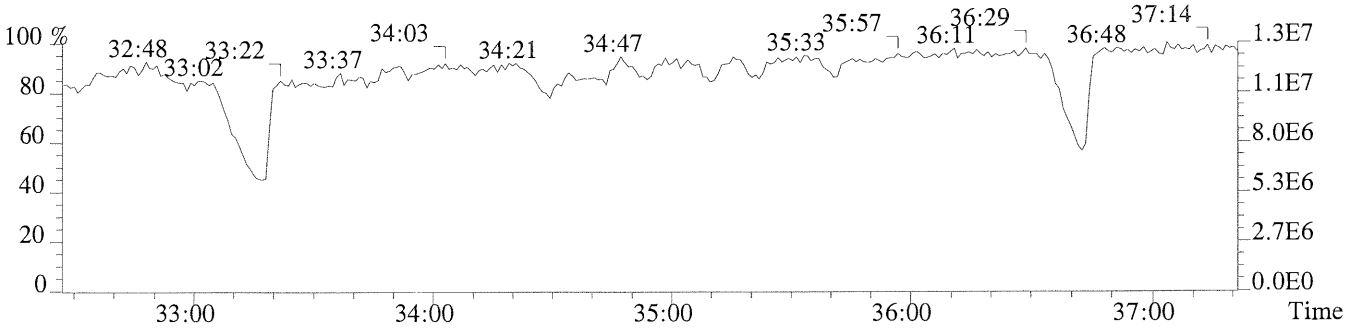
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12256.0,1.00%,F,T)



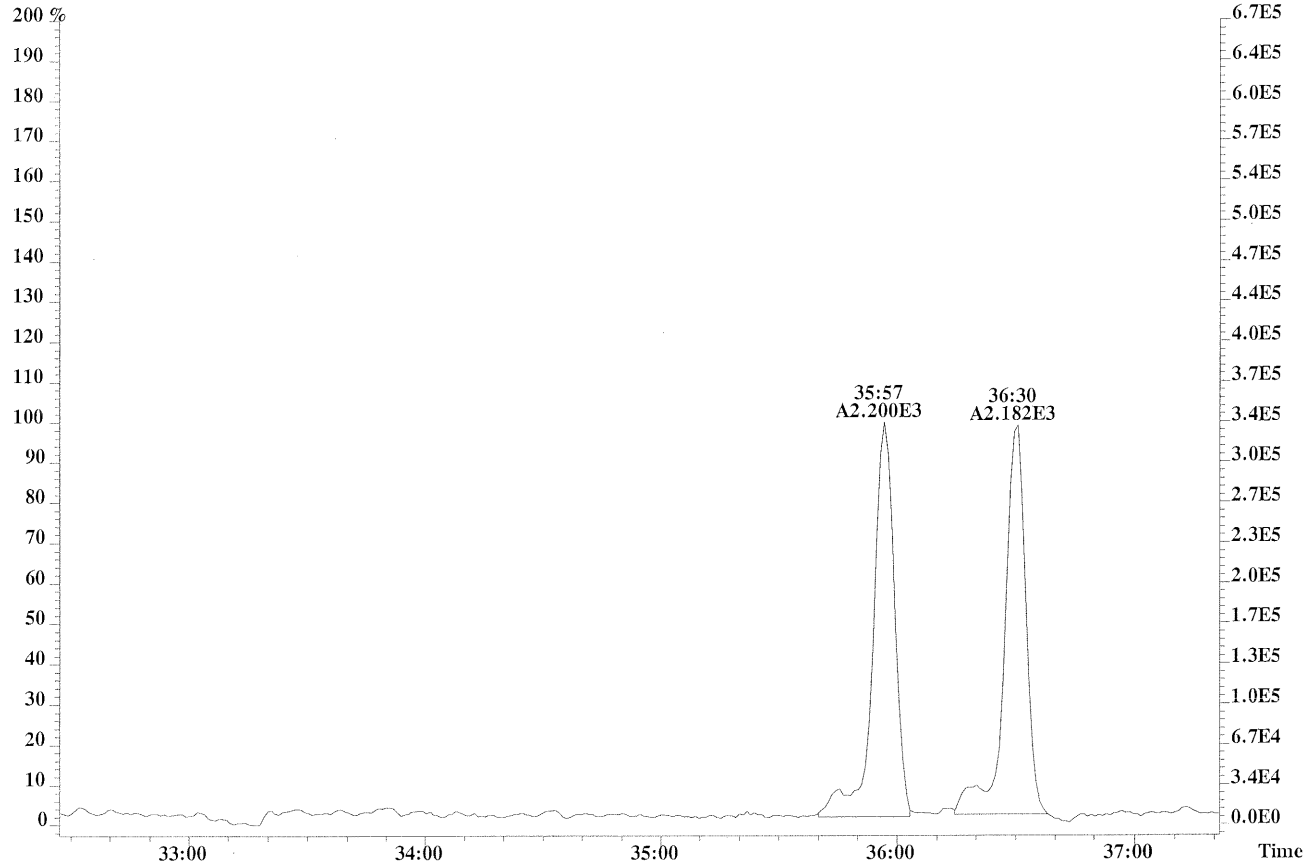
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2332.0,1.00%,F,T)



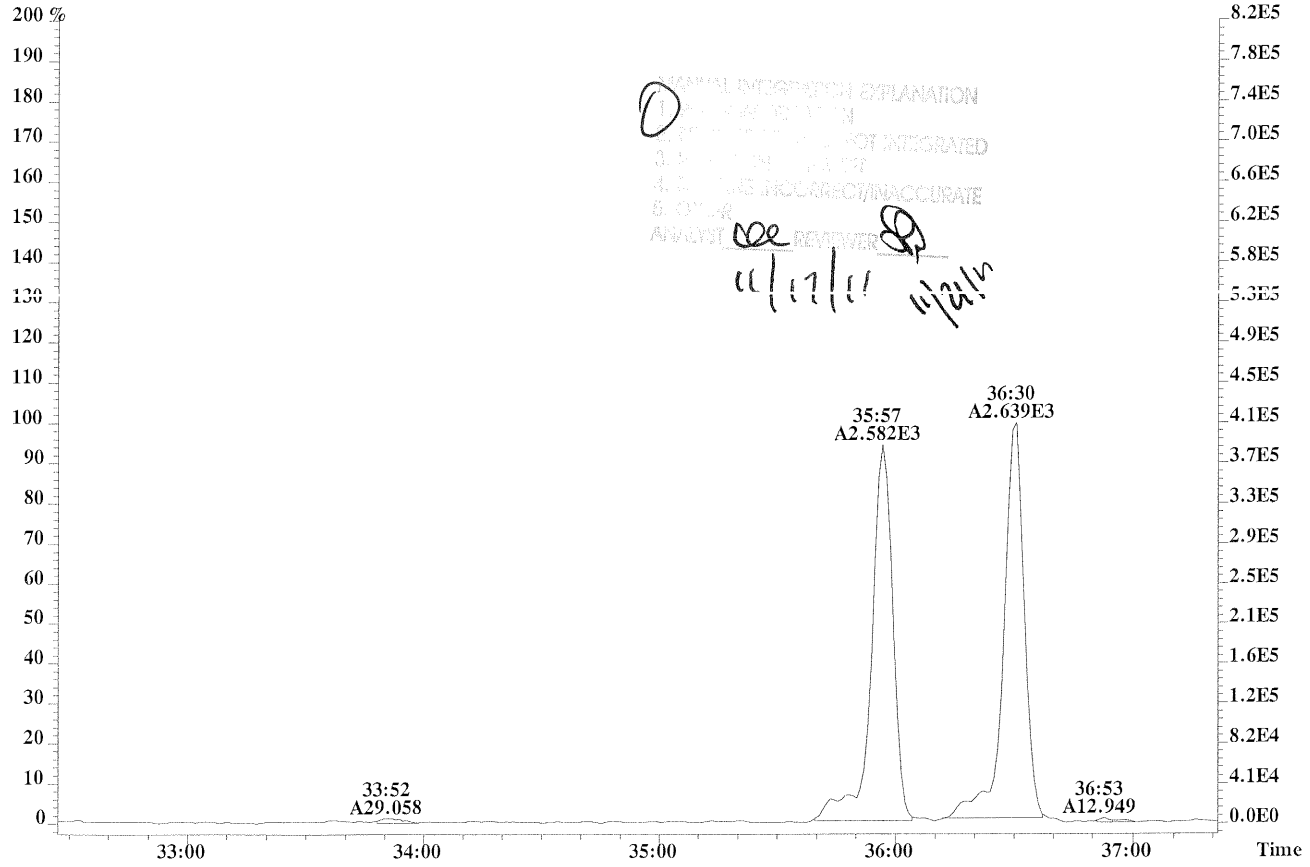
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



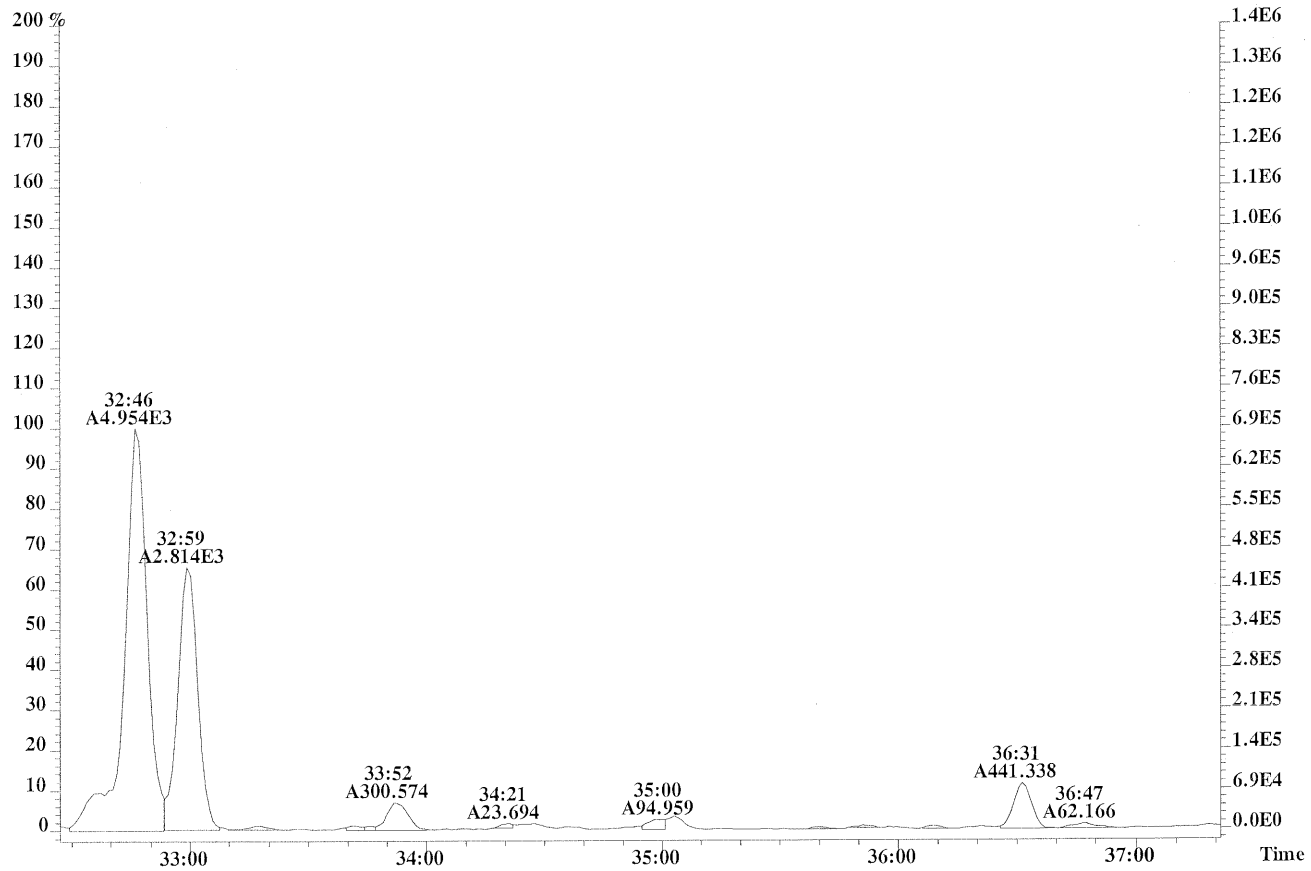
File:U142091 #1-314 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12256.0,1.00%,F,T)



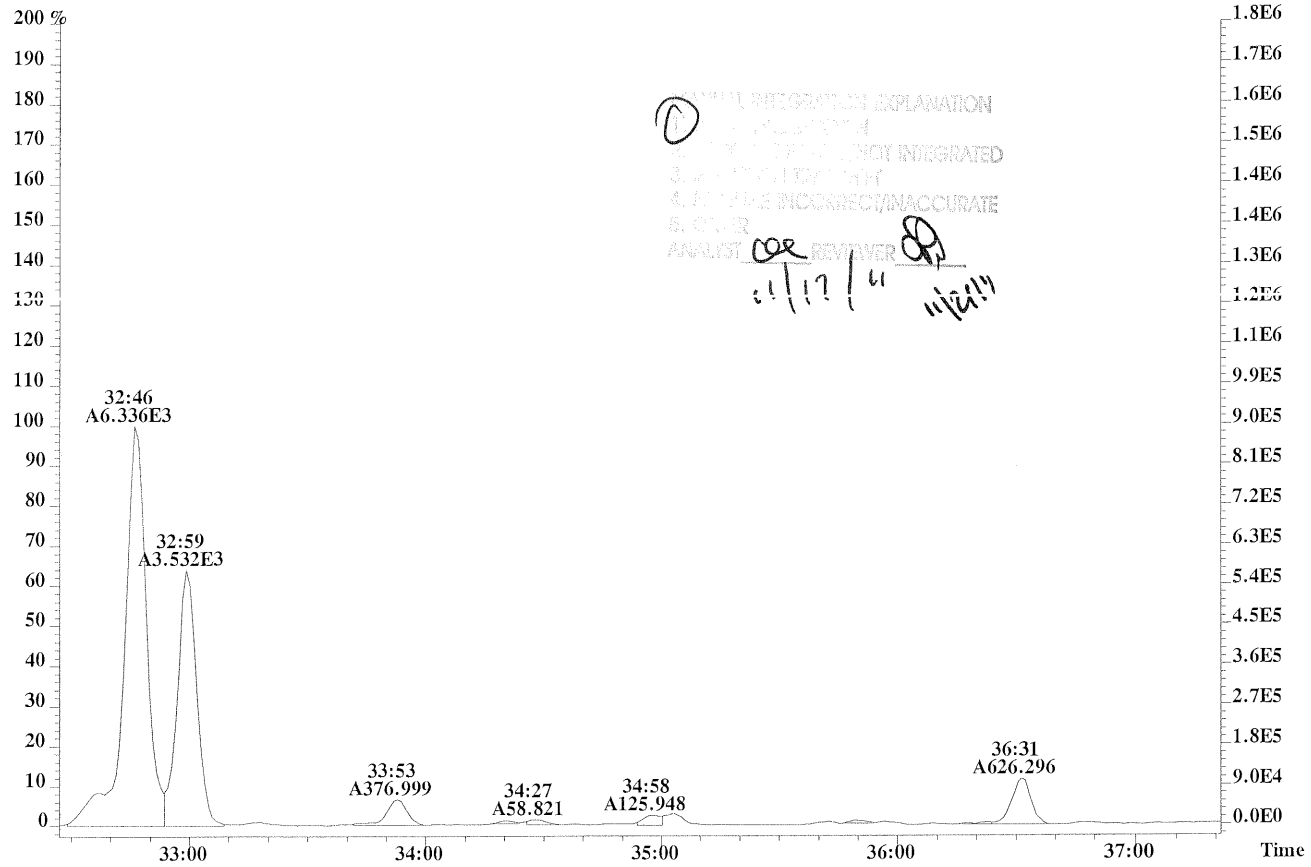
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2332.0,1.00%,F,T)



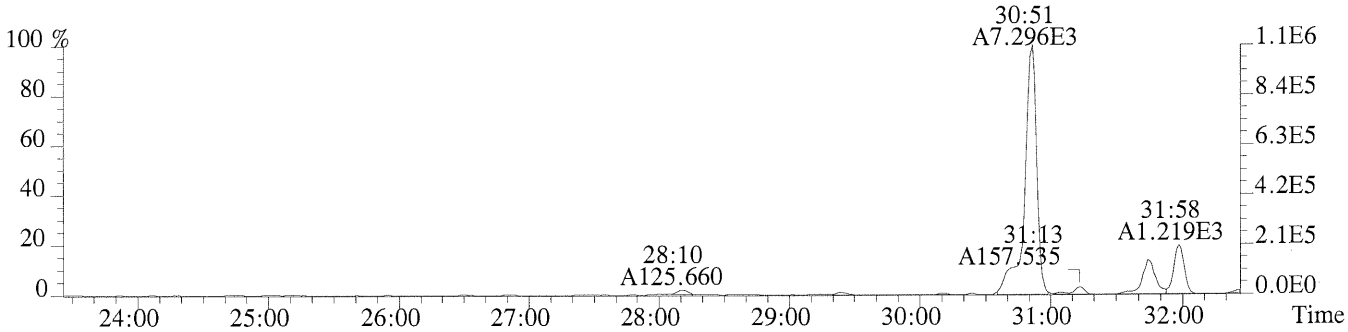
File:U142091 #1-314 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2520.0,1.00%,F,T)



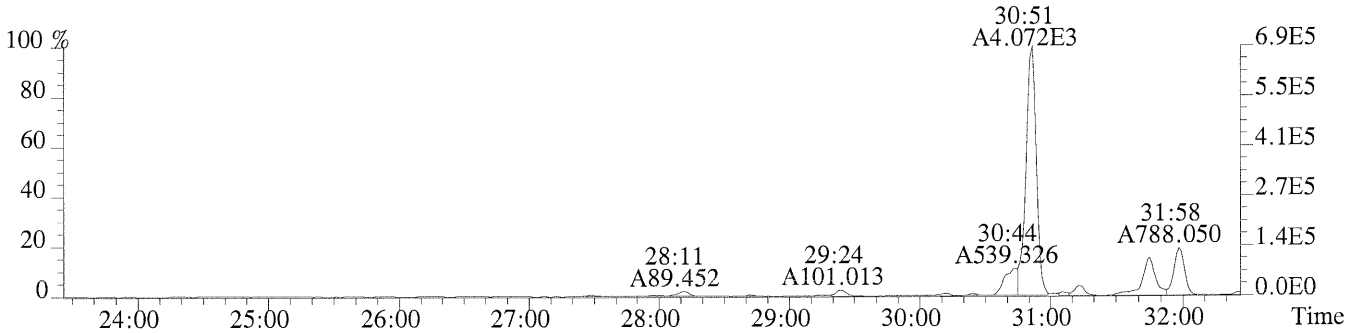
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3076.0,1.00%,F,T)



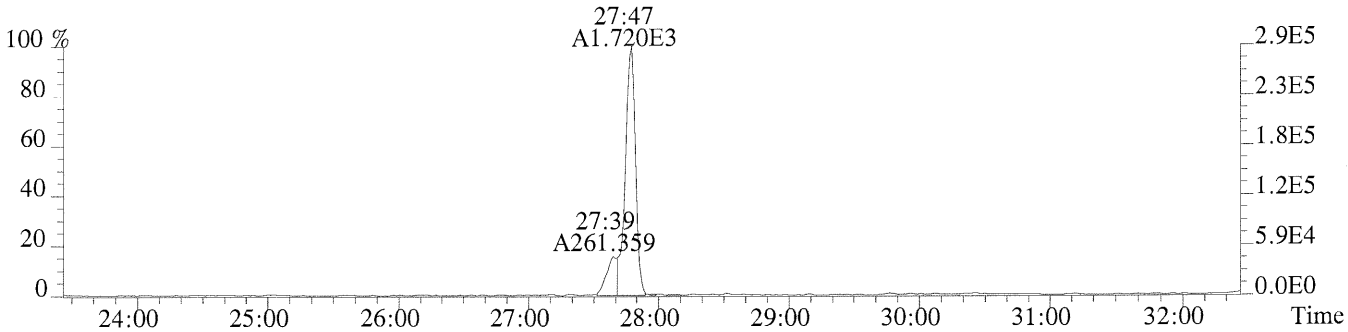
File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1544.0,1.00%,F,T)



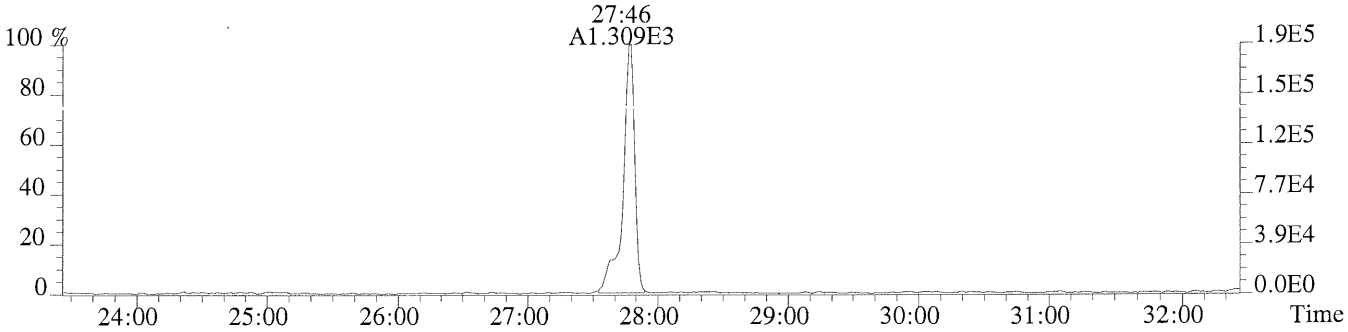
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



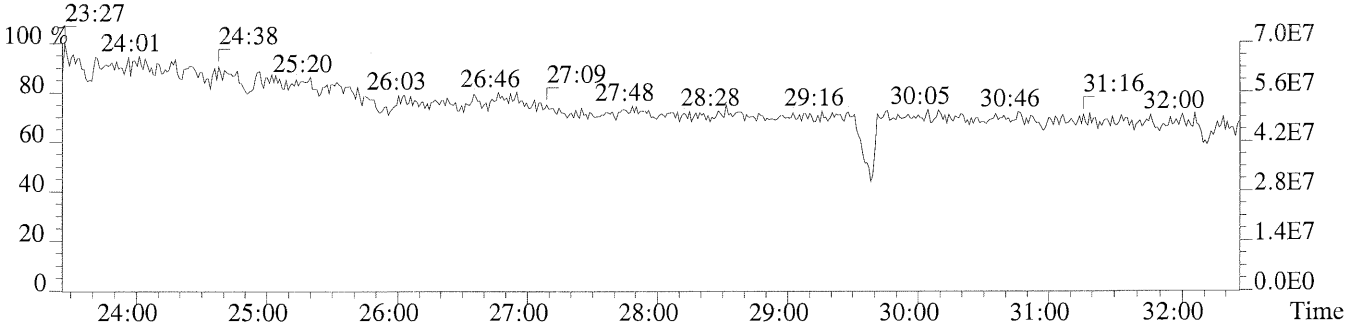
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1524.0,1.00%,F,T)



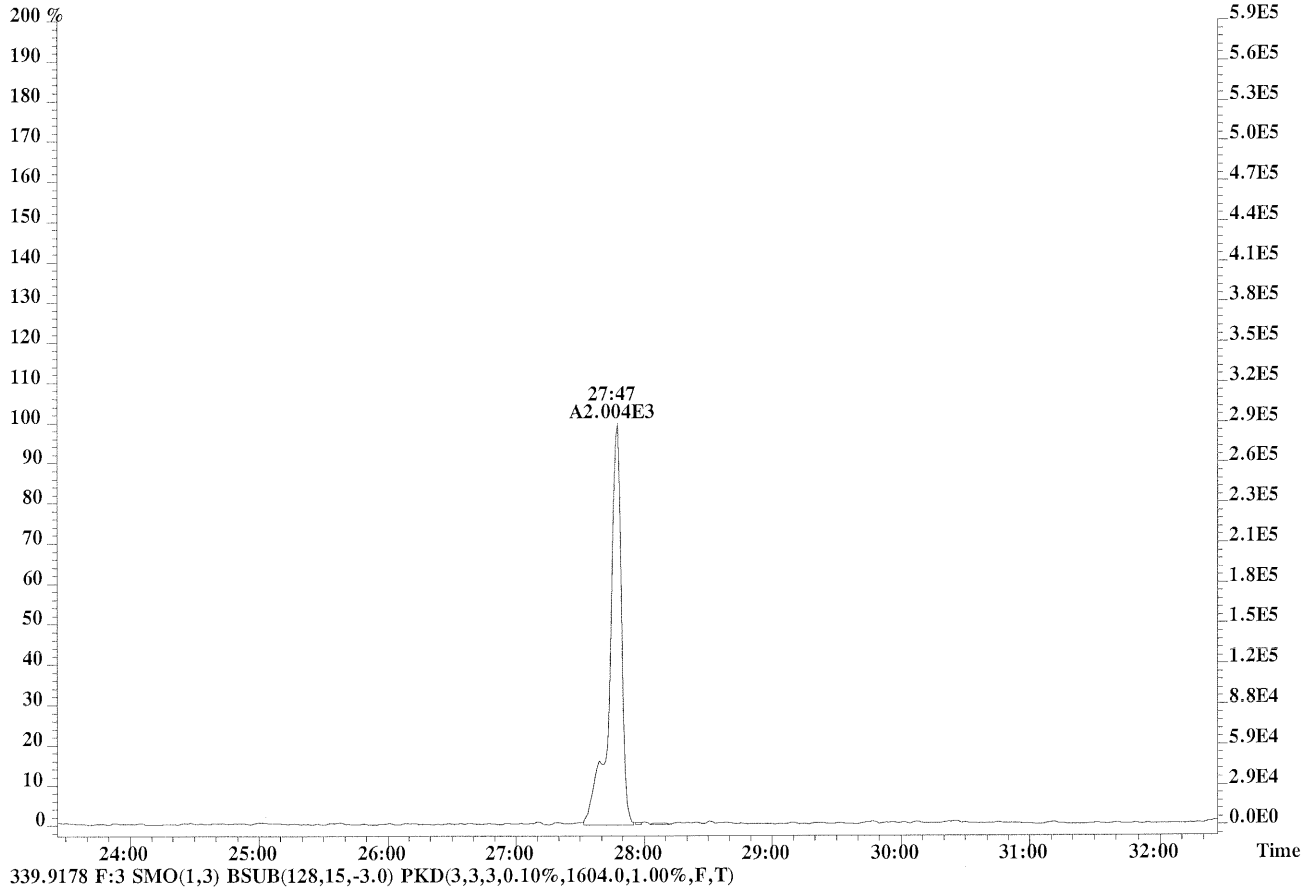
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1604.0,1.00%,F,T)



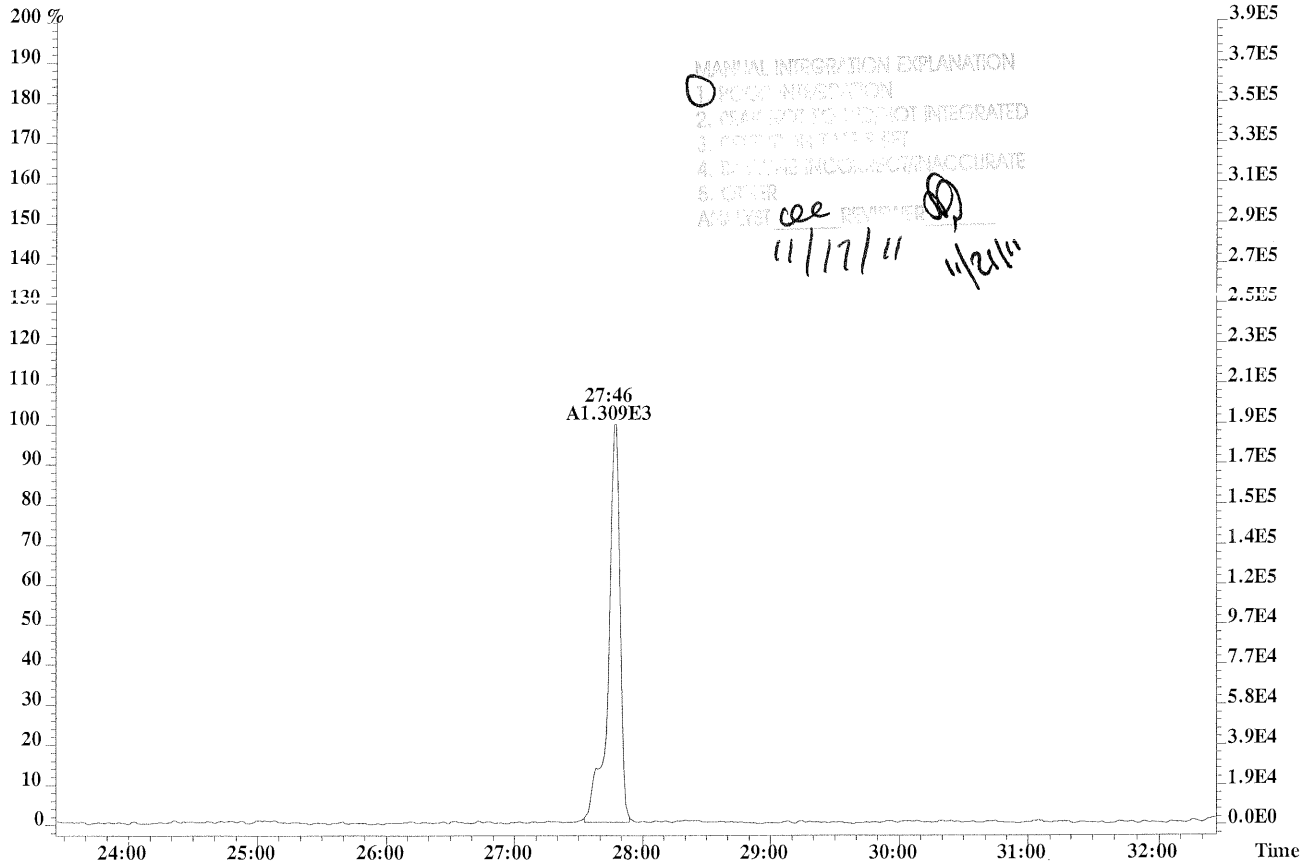
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



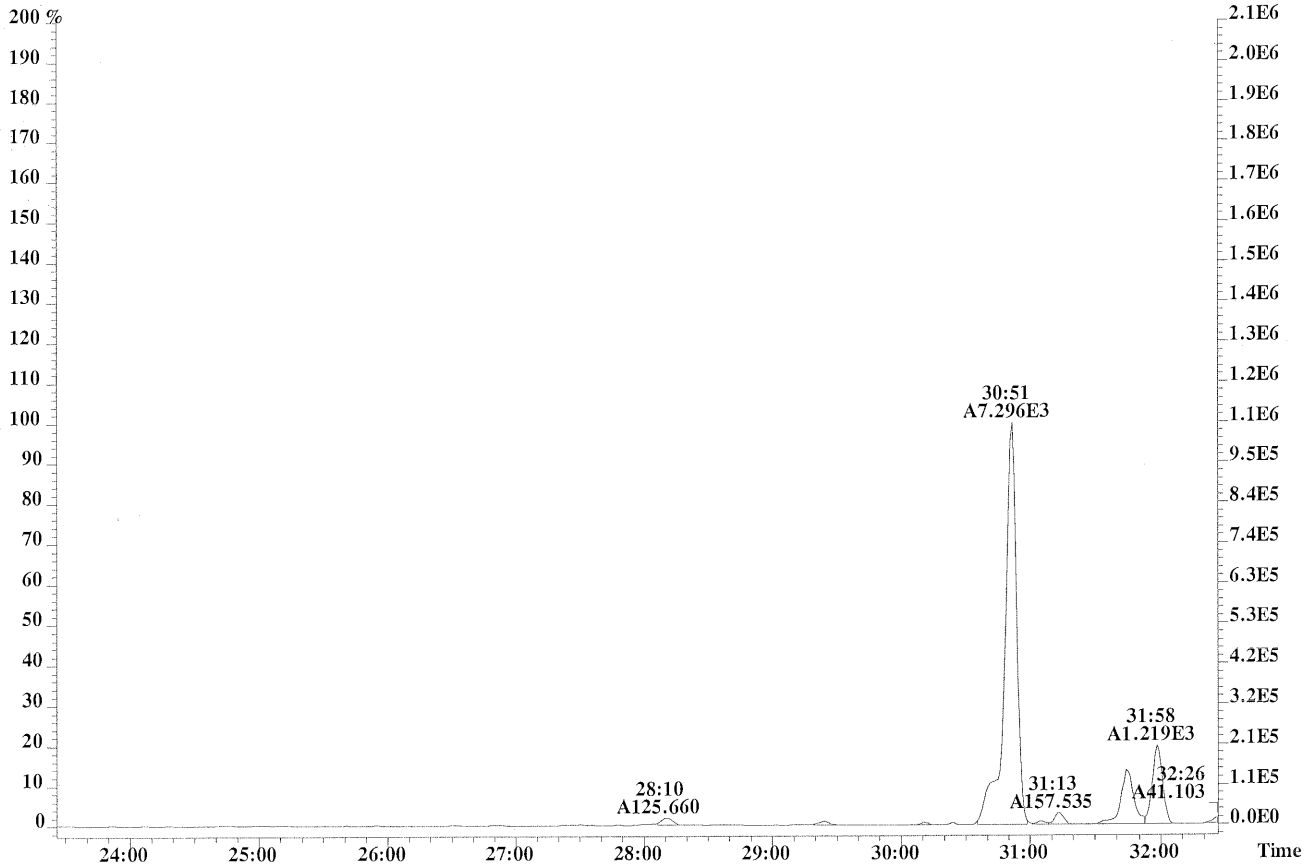
File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1524.0,1.00%,F,T)



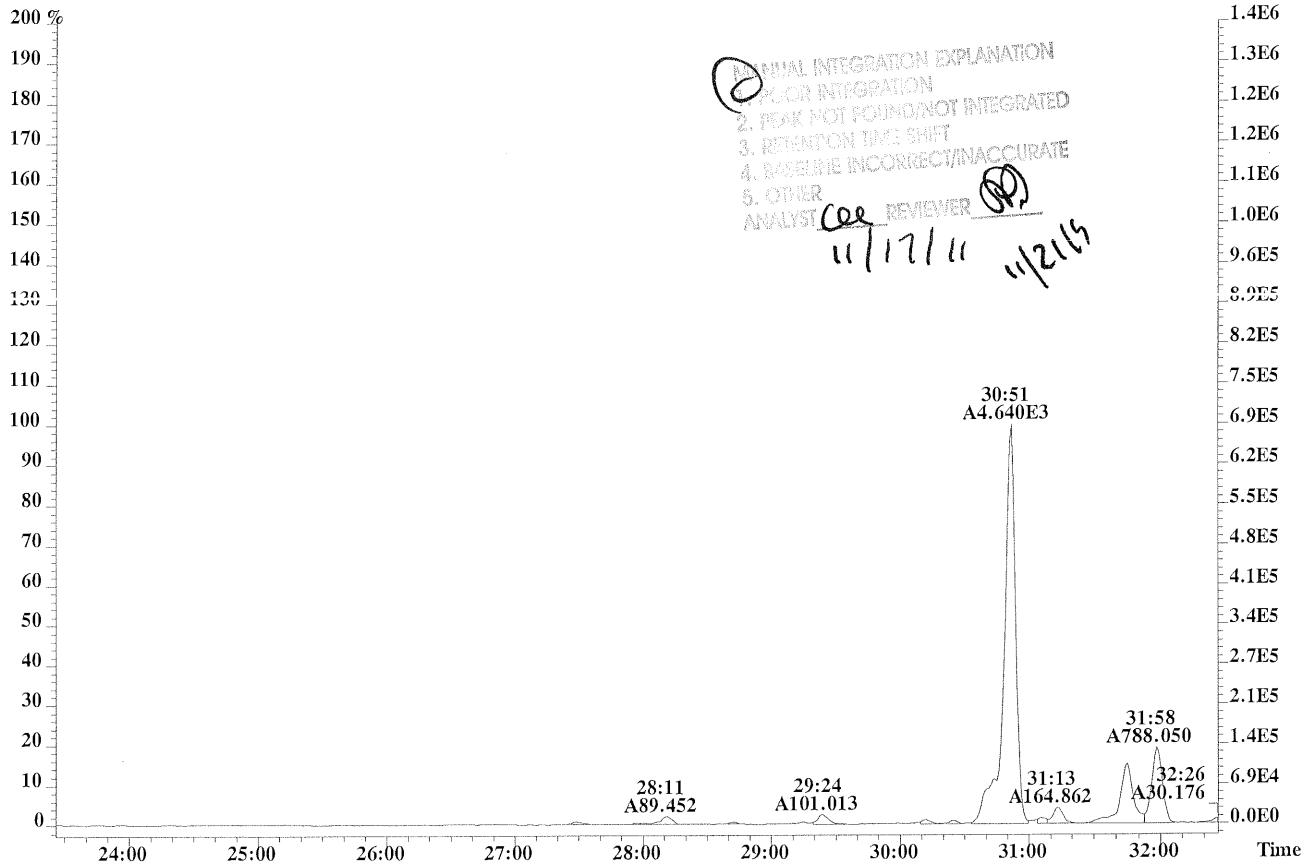
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1604.0,1.00%,F,T)



File:U142091 #1-576 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1544.0,1.00%,F,T)

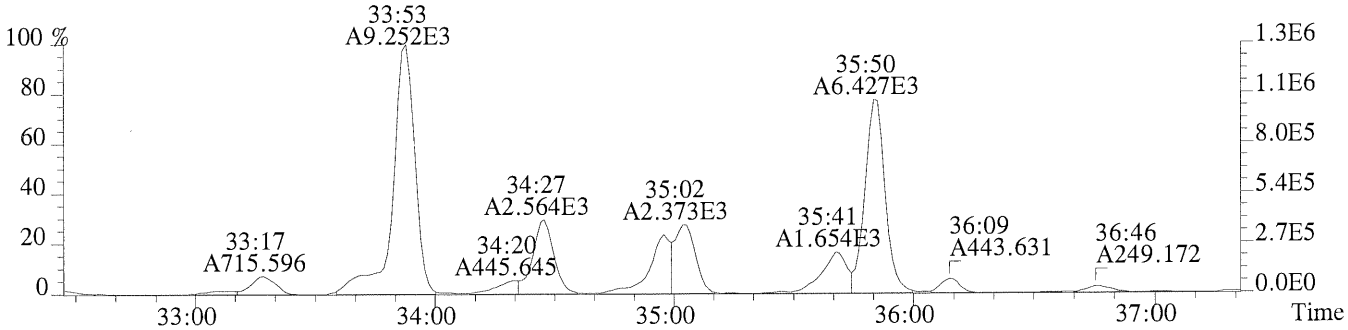


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)

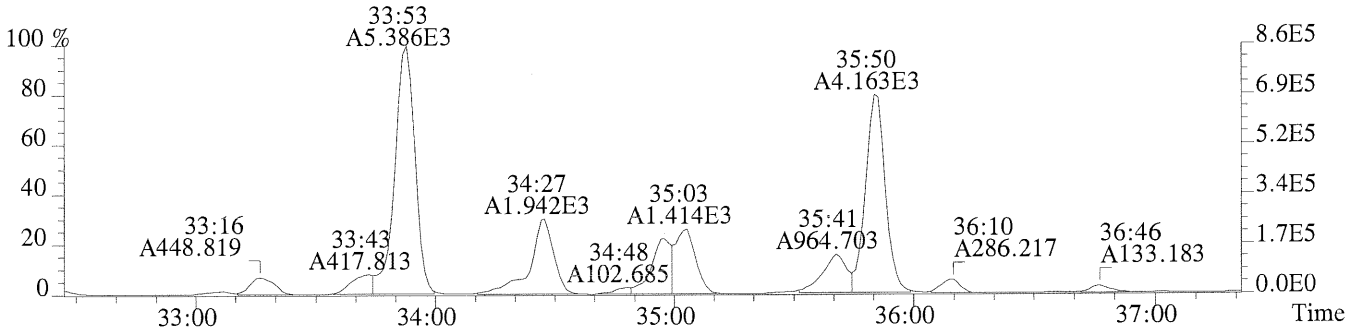


File:U142091 #1-314 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-

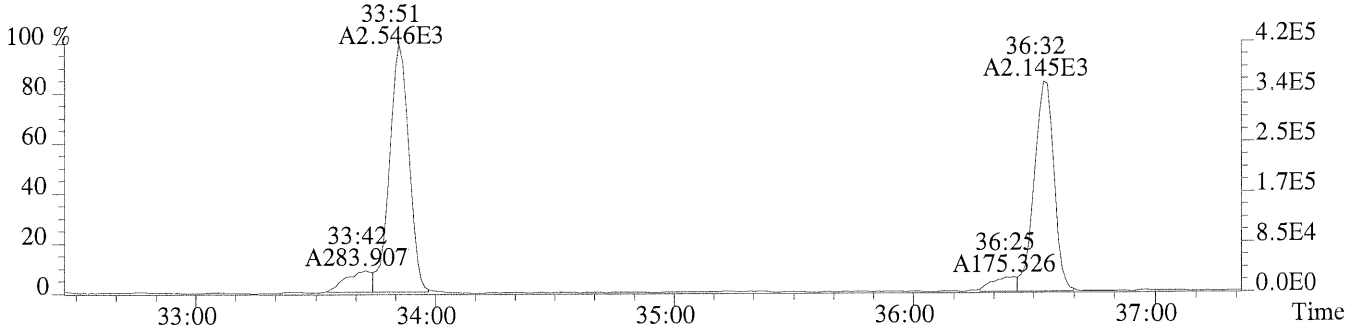
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1532.0,1.00%,F,T)



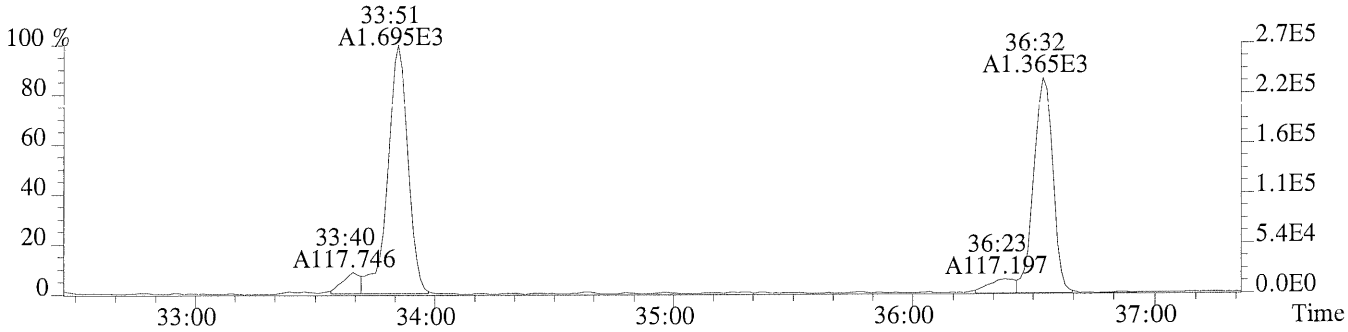
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3336.0,1.00%,F,T)



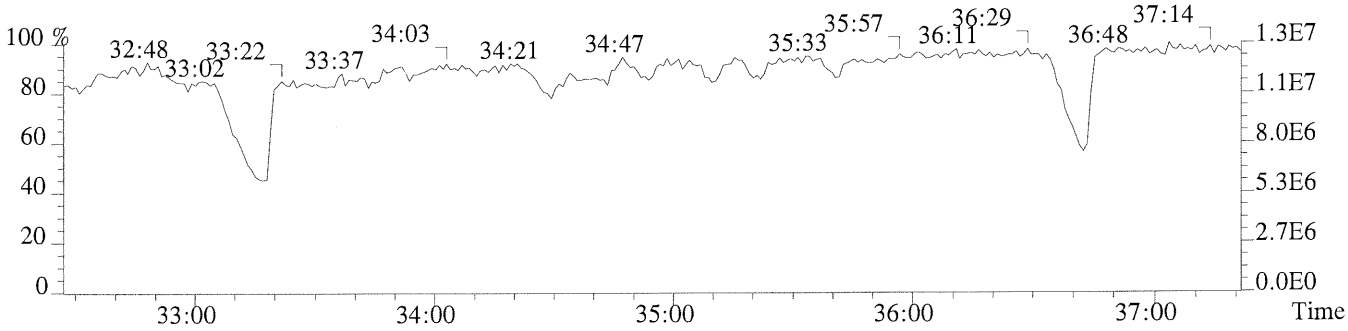
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2408.0,1.00%,F,T)



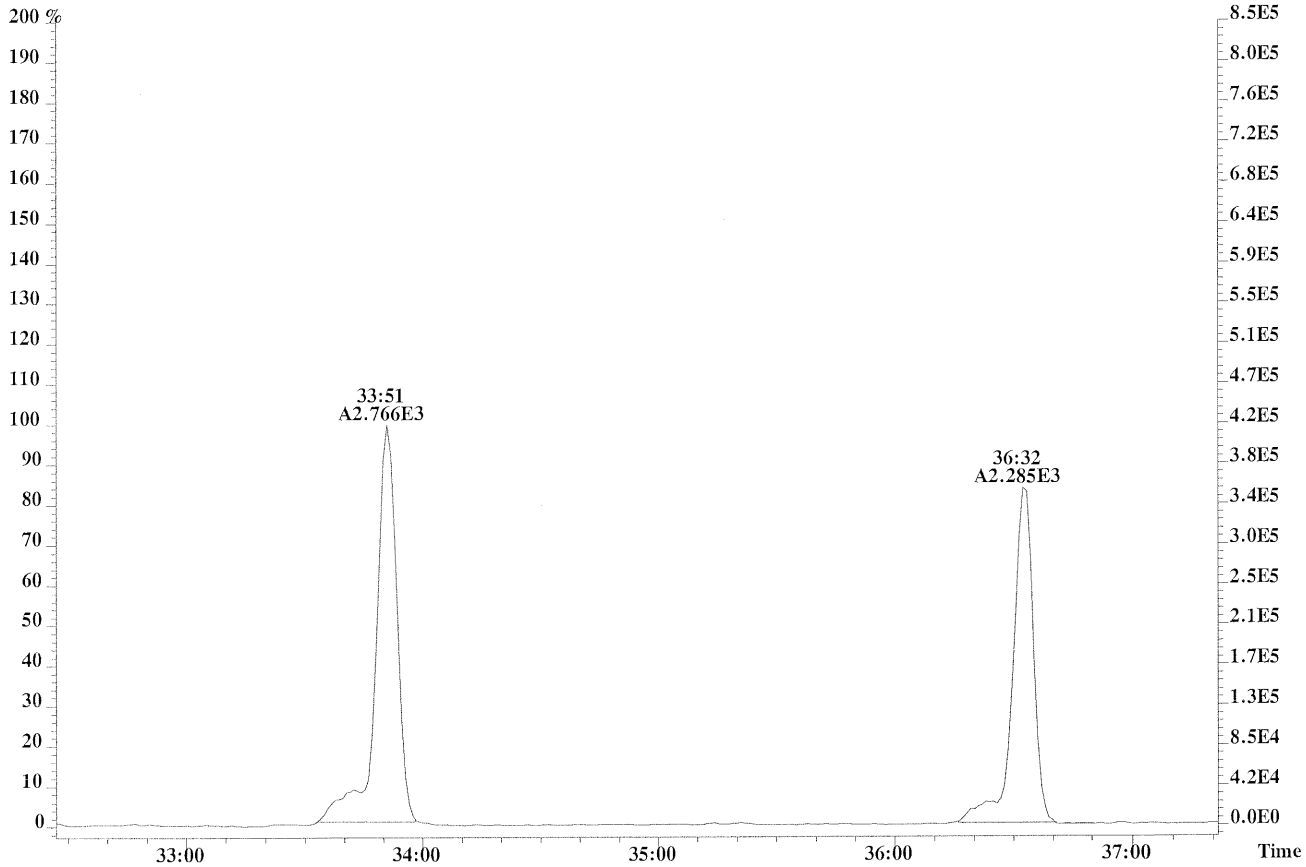
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1348.0,1.00%,F,T)



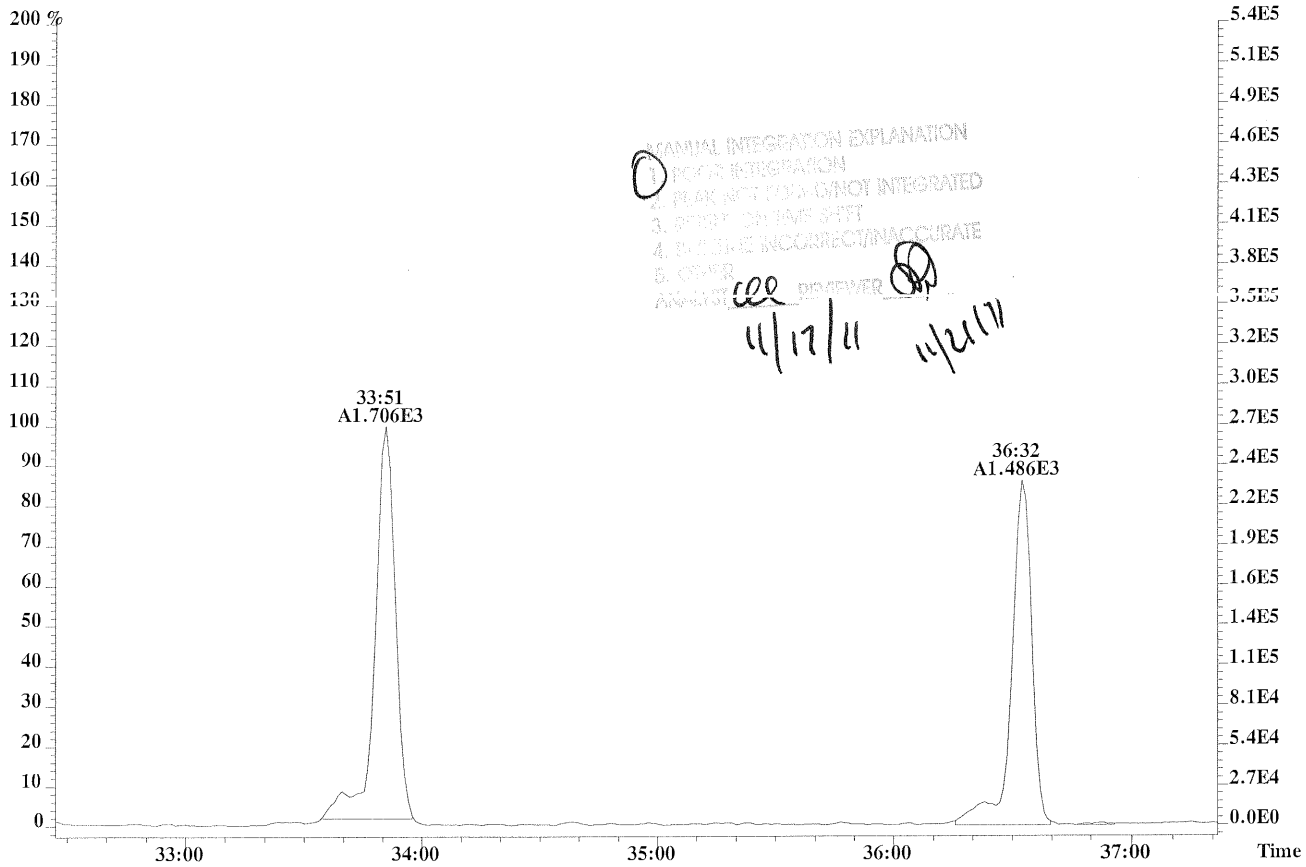
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142091 #1-314 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2408.0,1.00%,F,T)

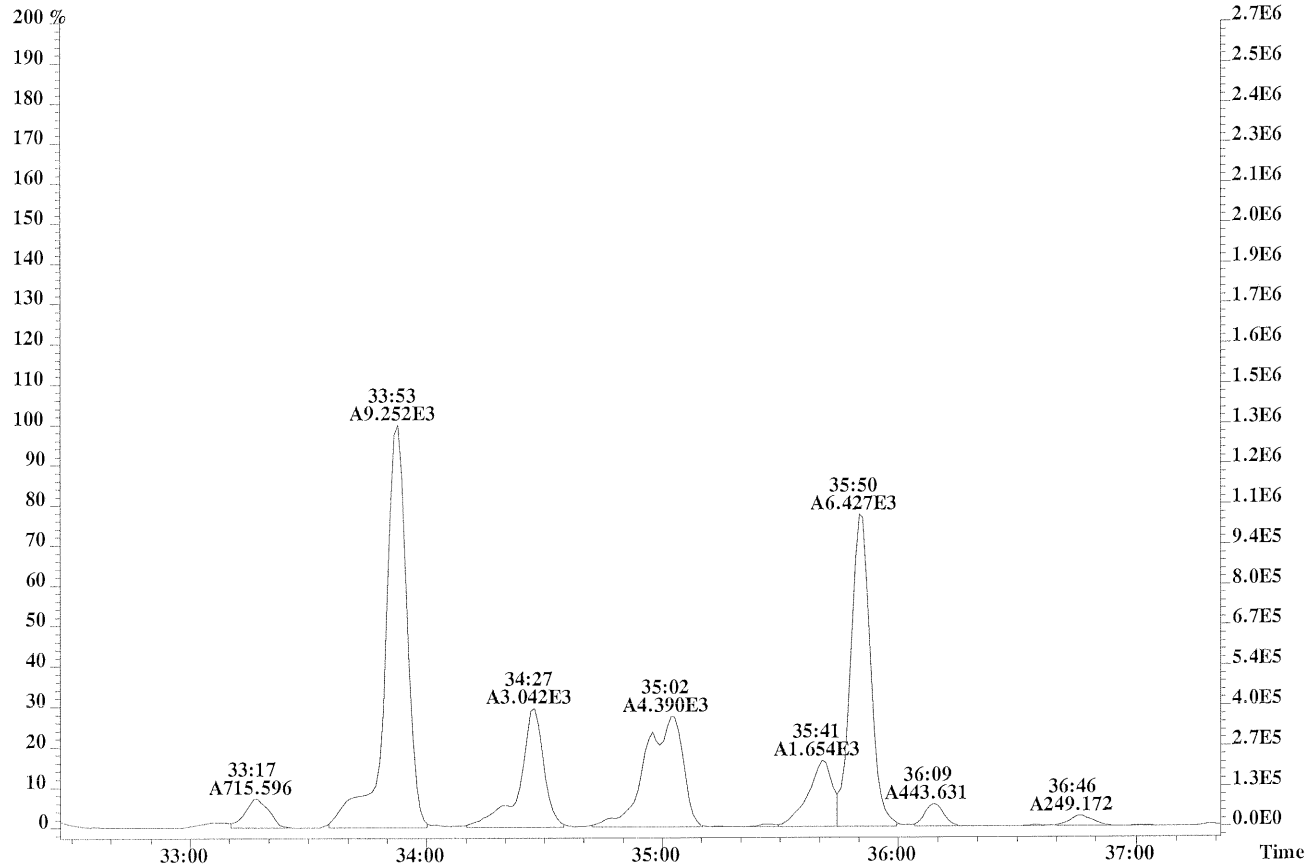


339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1348.0,1.00%,F,T)

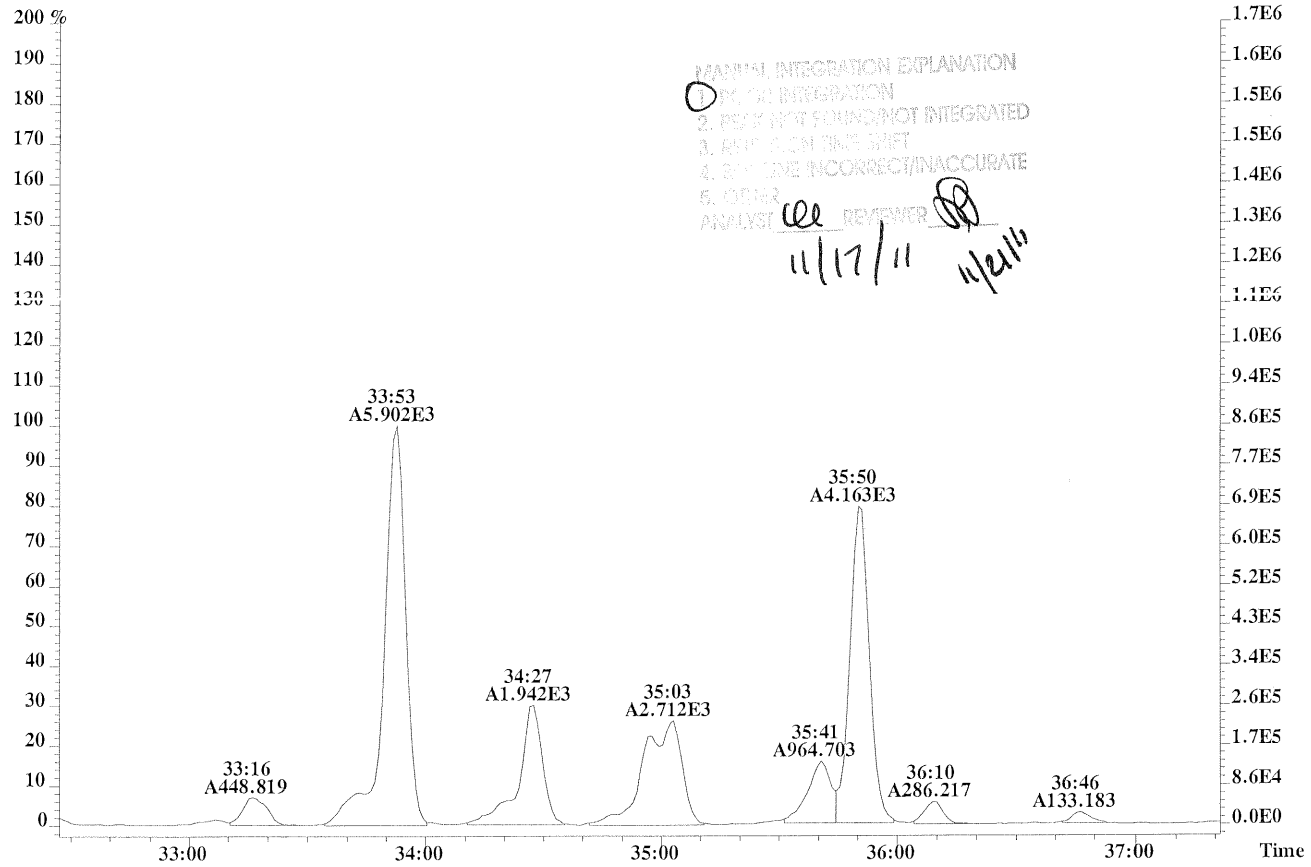


MANUAL INTEGRATION EXPLANATION
1. PROPER INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. PROPER - SPLITS SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST: lee DATE: 11/17/11 REVIEWER: 11/21/11

File:U142091 #1-314 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1532.0,1.00%,F,T)

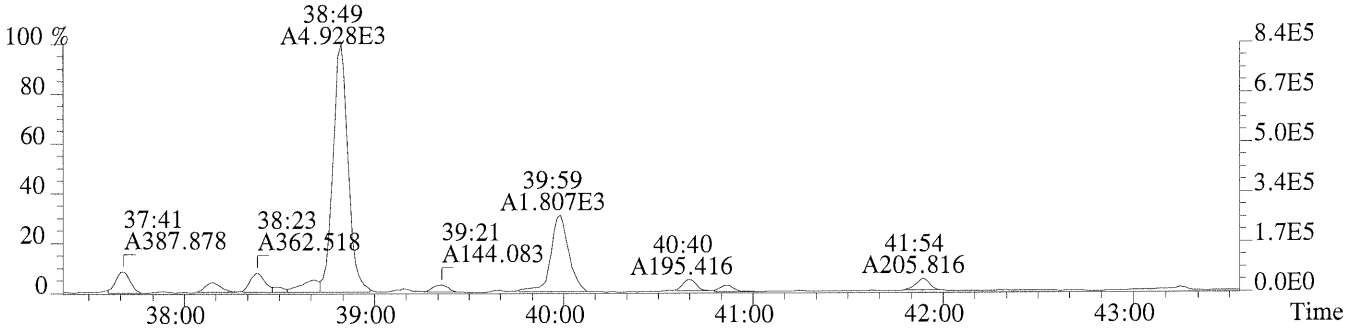


327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3336.0,1.00%,F,T)

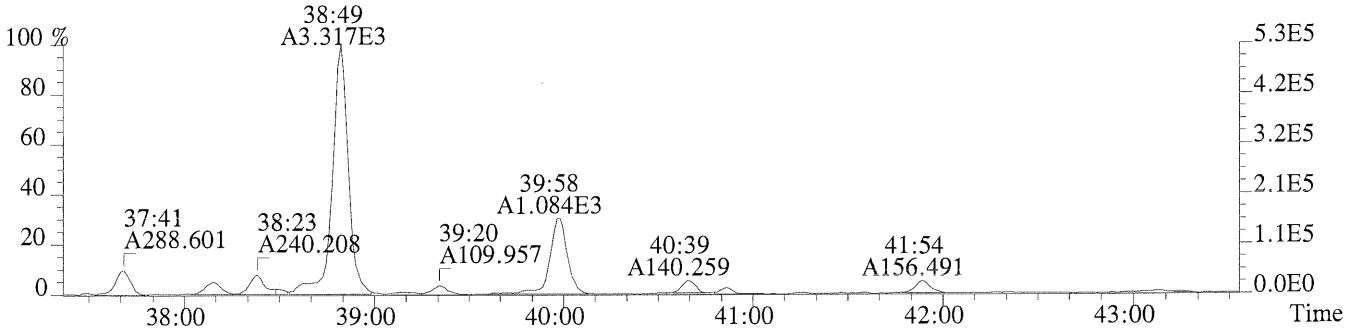


File:U142091 #1-396 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-

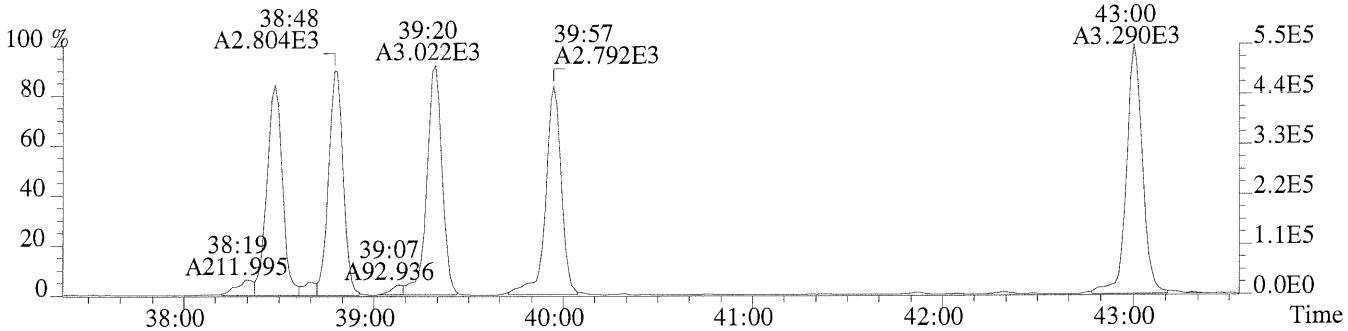
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5040.0,1.00%,F,T)



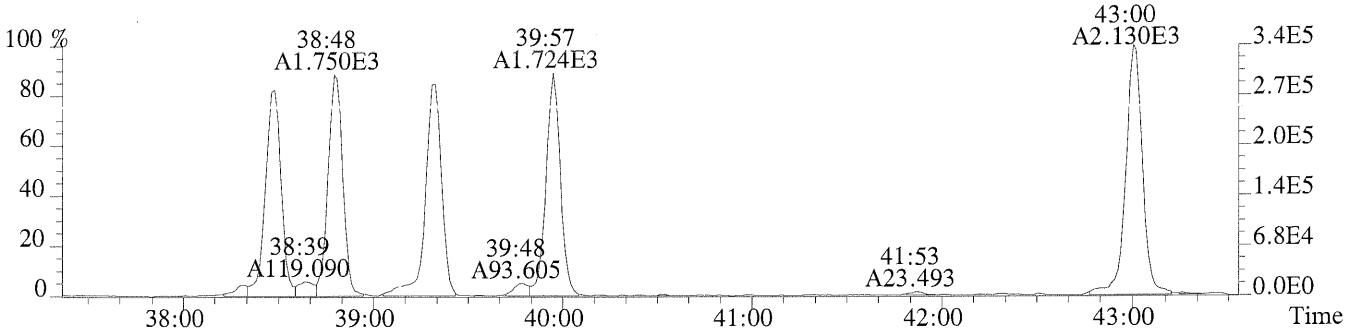
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1668.0,1.00%,F,T)



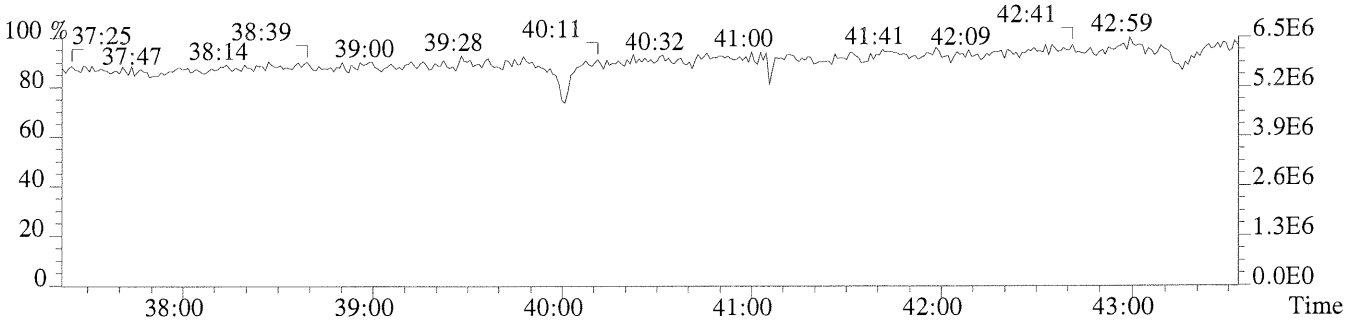
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2364.0,1.00%,F,T)



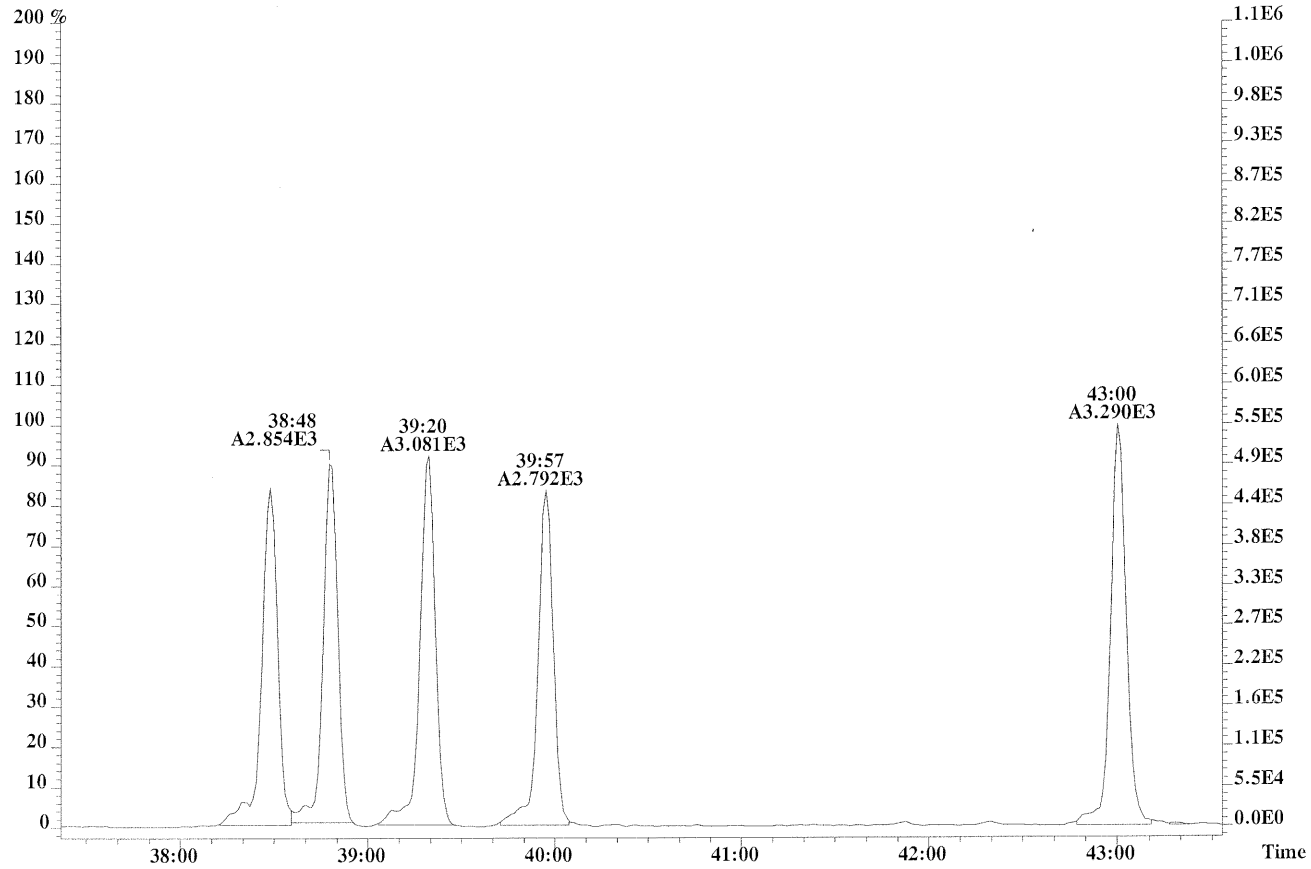
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



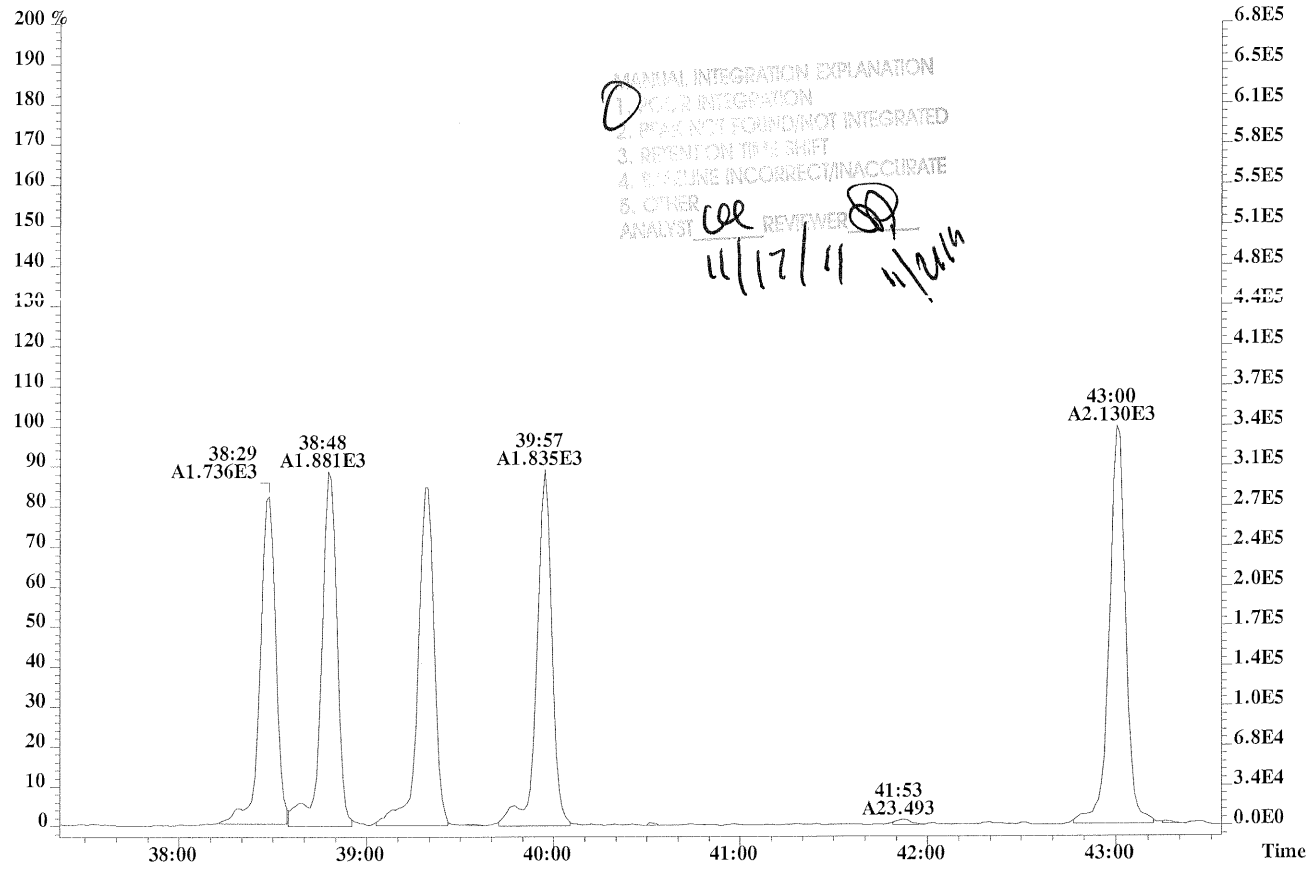
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



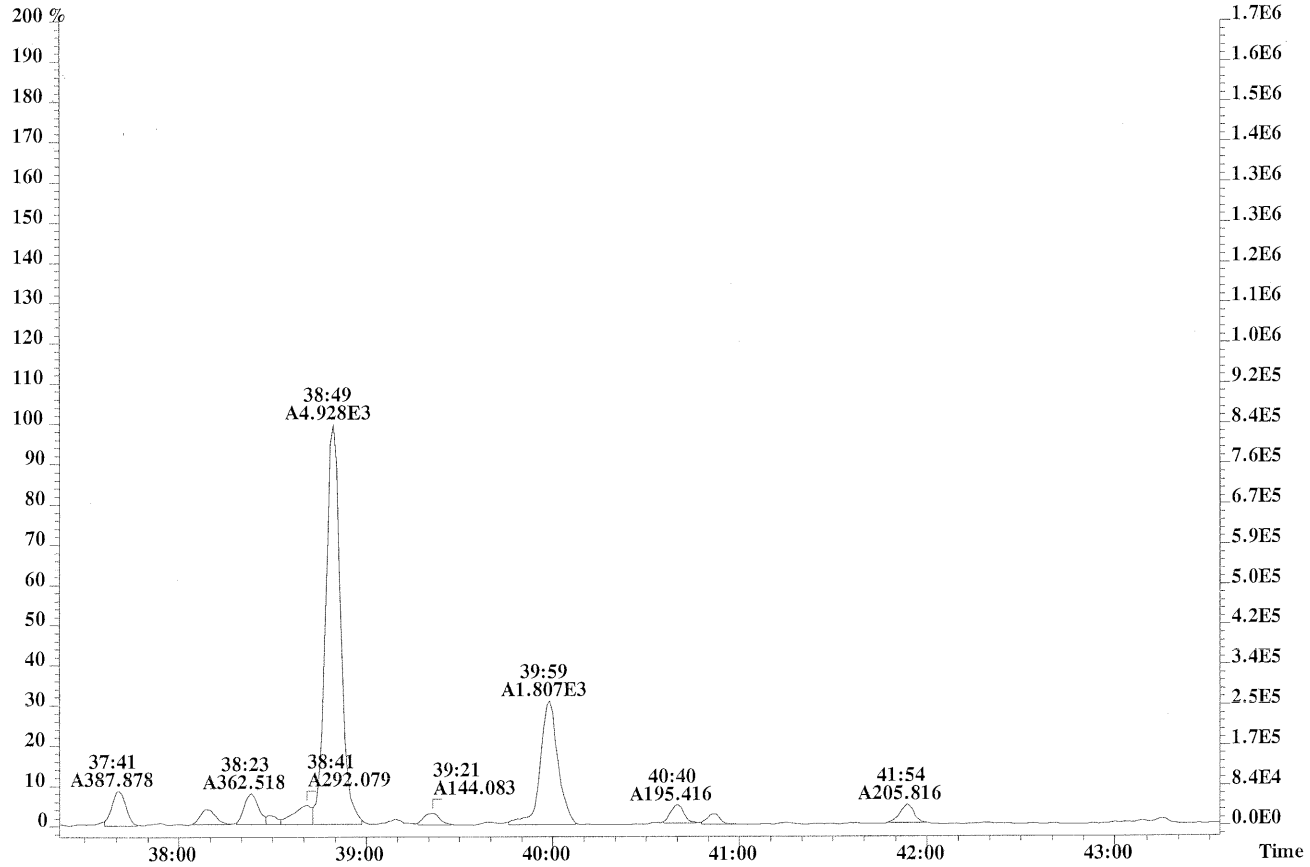
File:U142091 #1-396 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2364.0,1.00%,F,T)



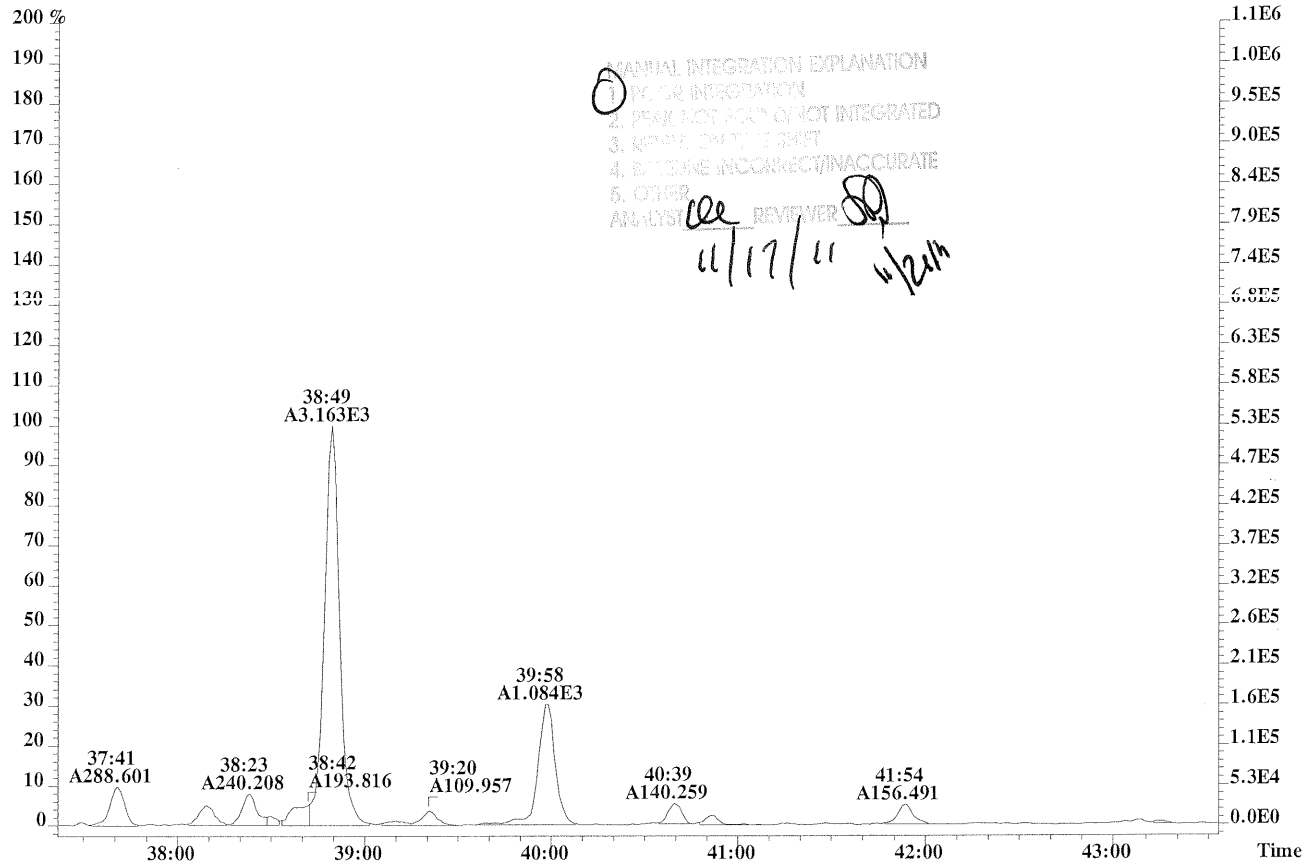
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



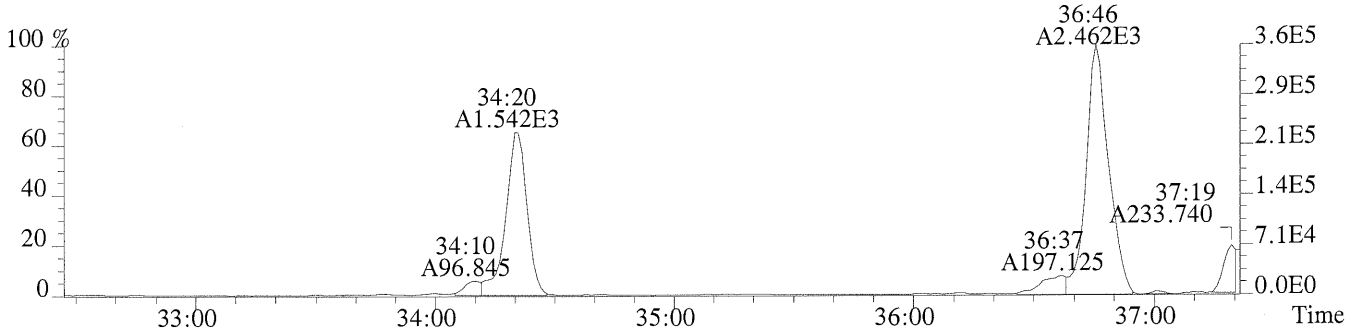
File:U142091 #1-396 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5040.0,1.00%,F,T)



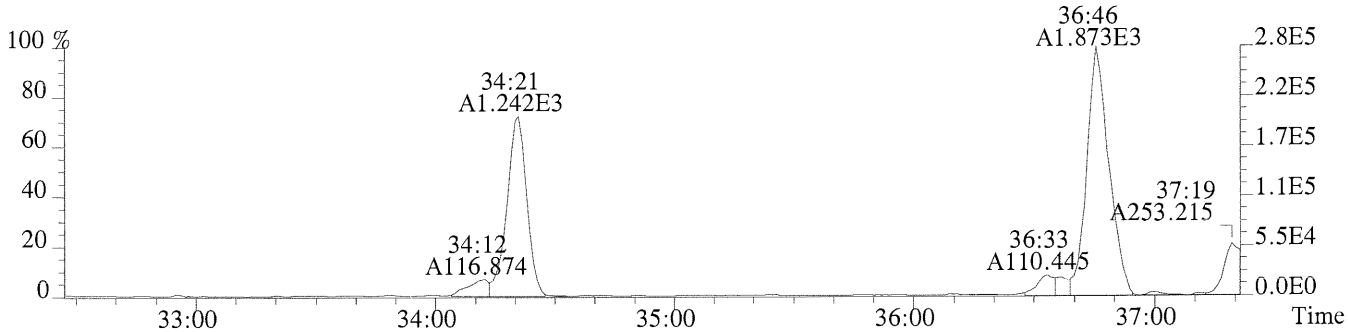
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1668.0,1.00%,F,T)



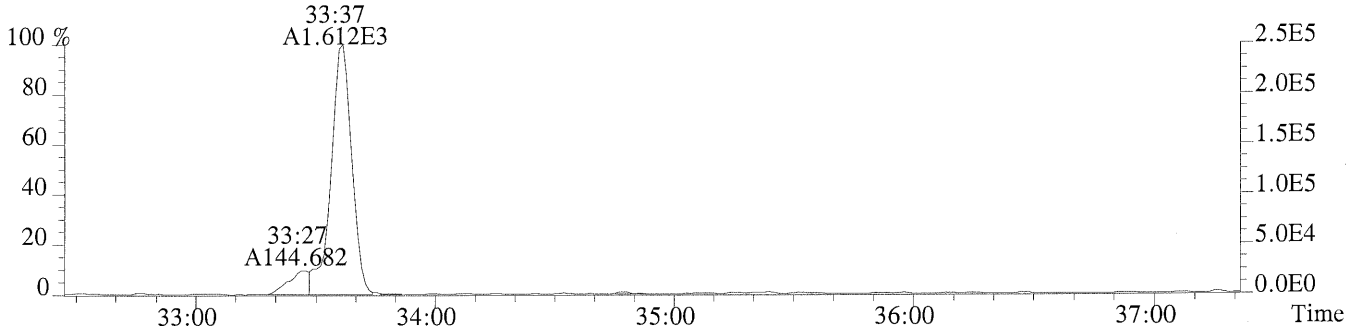
File:U142091 #1-314 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1496.0,1.00%,F,T)



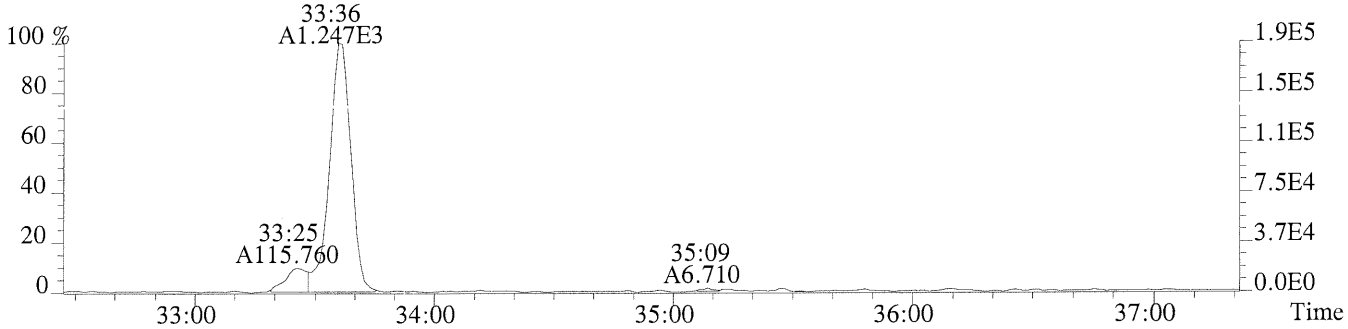
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1432.0,1.00%,F,T)



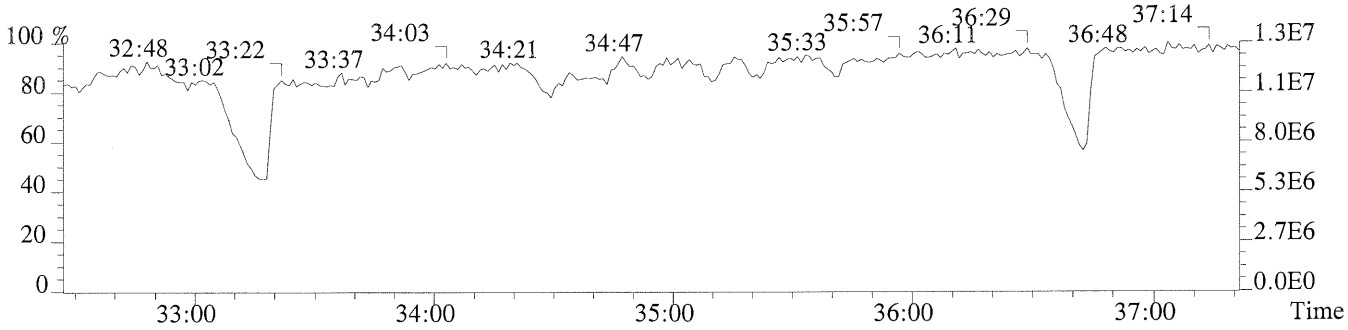
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1144.0,1.00%,F,T)



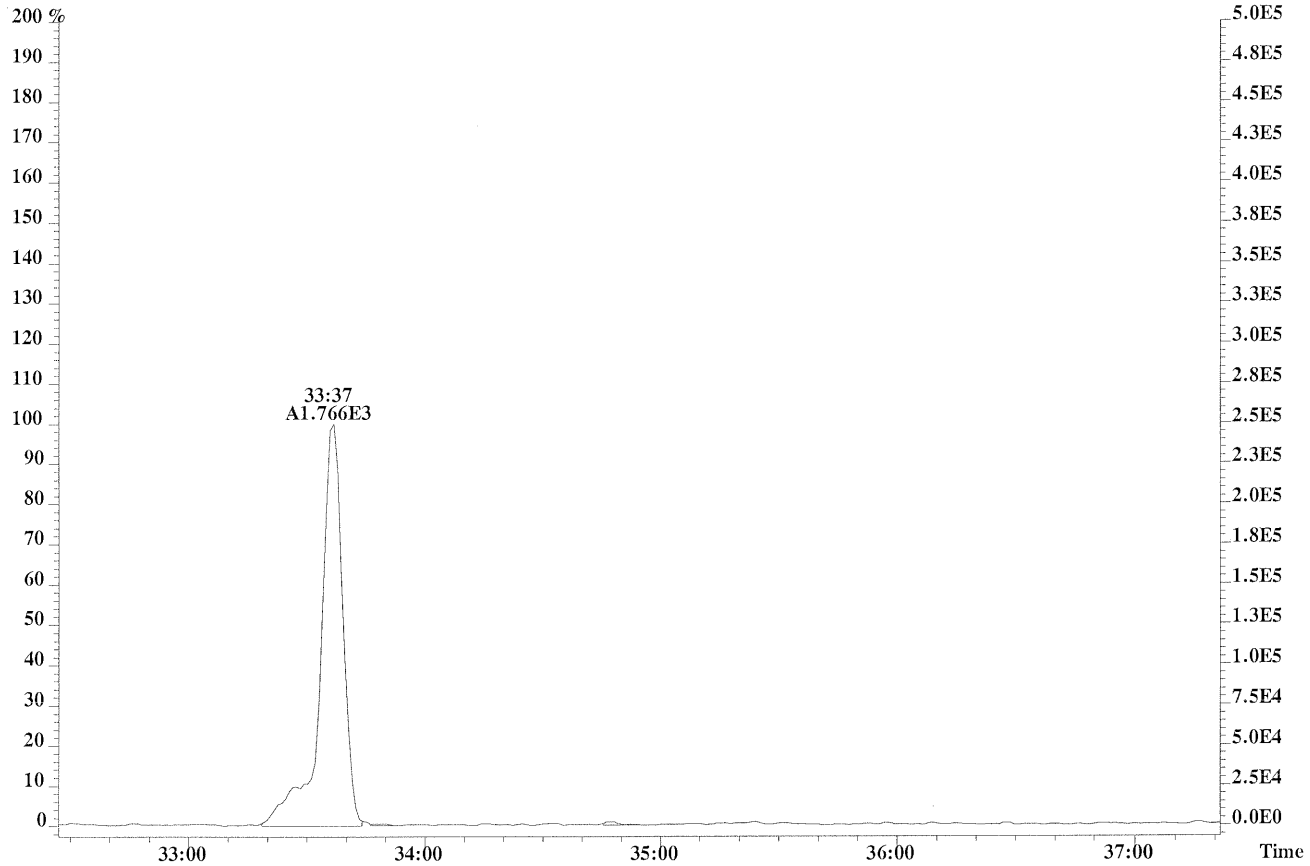
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1352.0,1.00%,F,T)



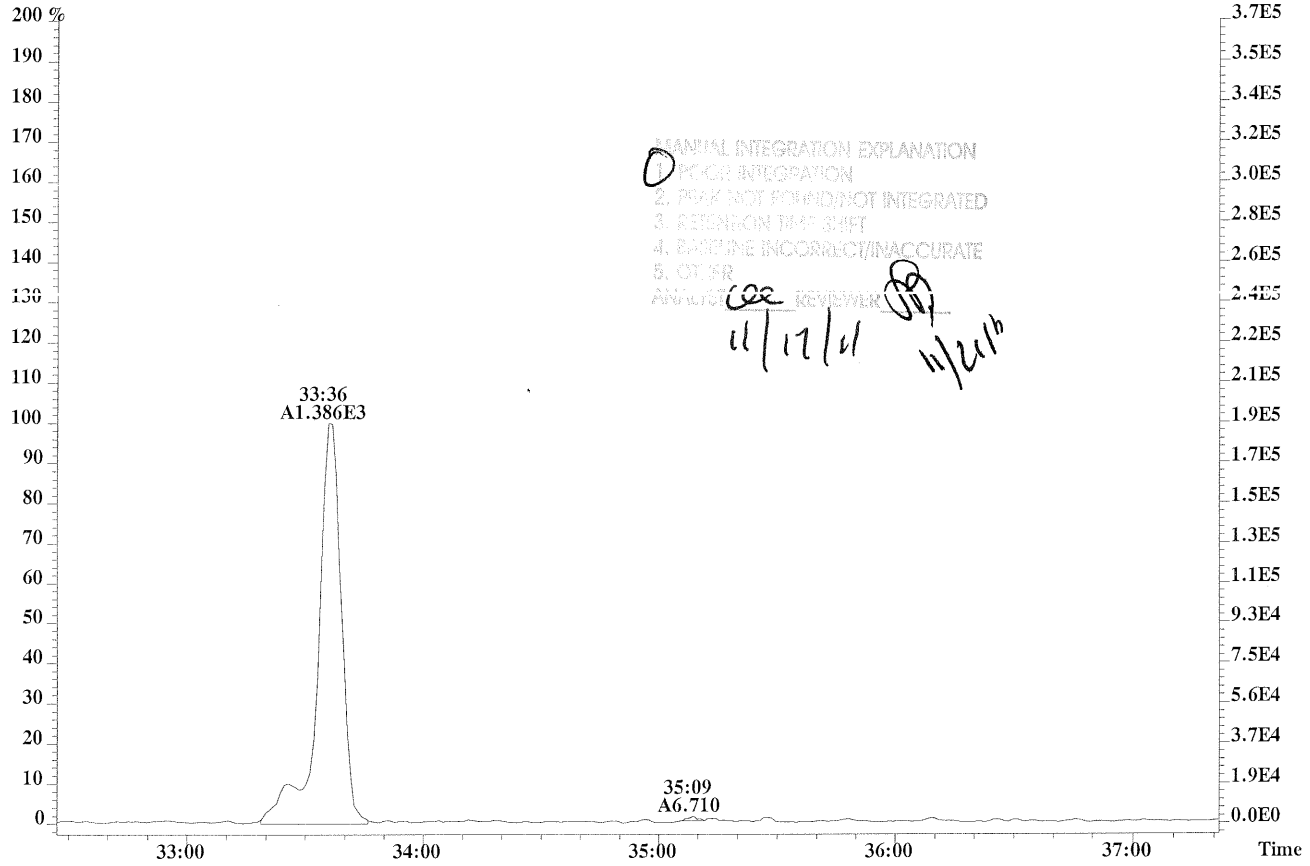
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142091 #1-314 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1144.0,1.00%,F,T)

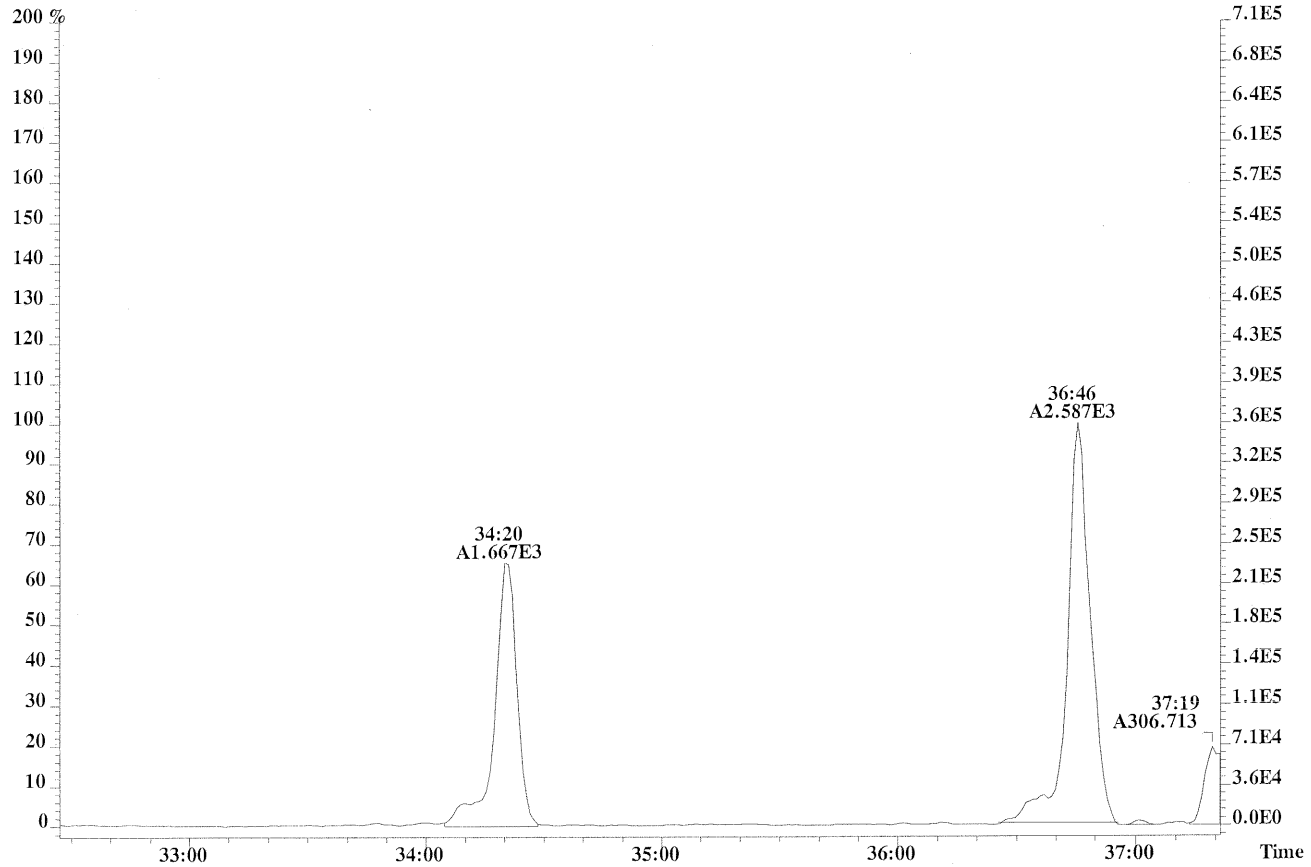


373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1352.0,1.00%,F,T)

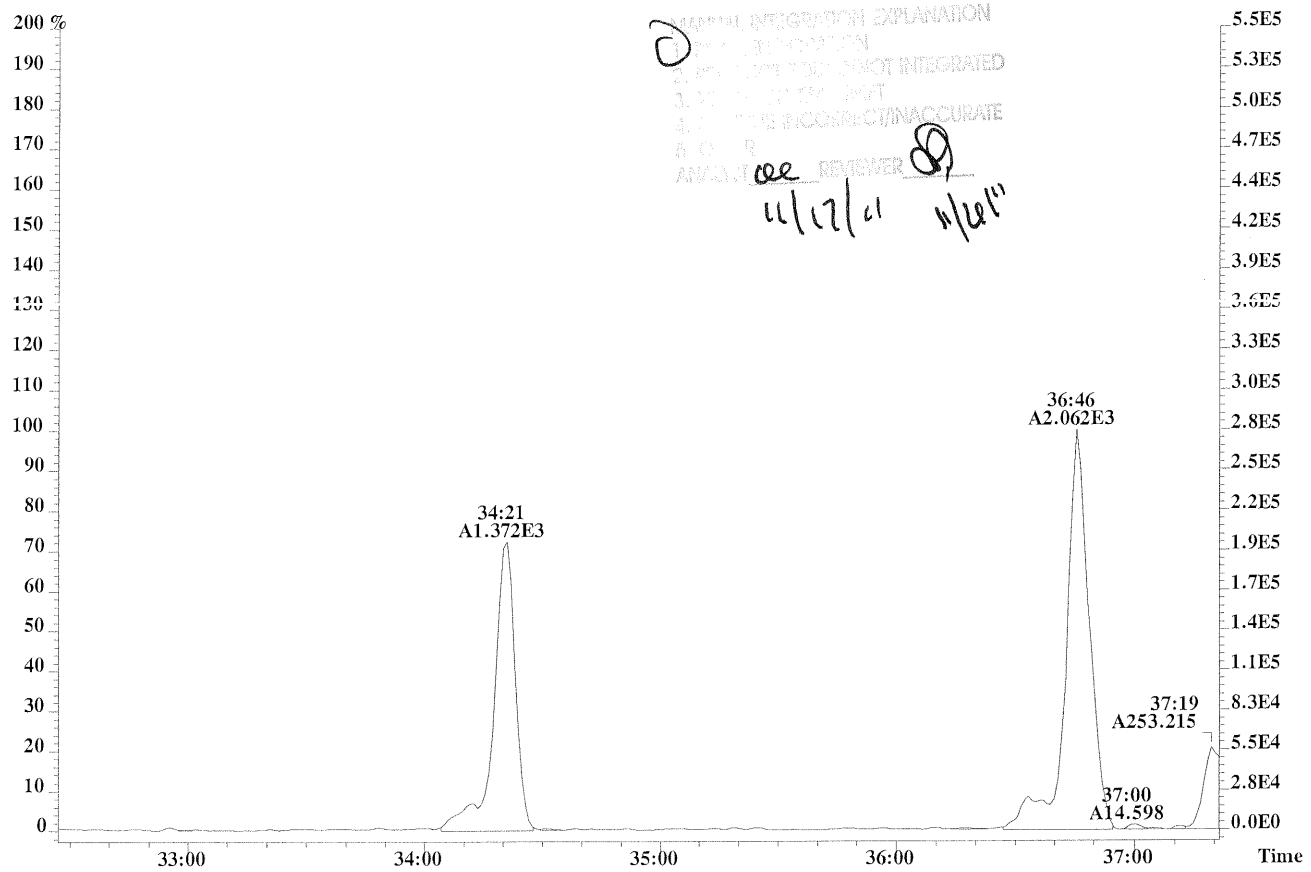


MANUAL INTEGRATION EXPLANATION
1. PROPER INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CCC 11/17/11 REVIEWER 11/21/11

File:U142091 #1-314 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1496.0,1.00%,F,T)



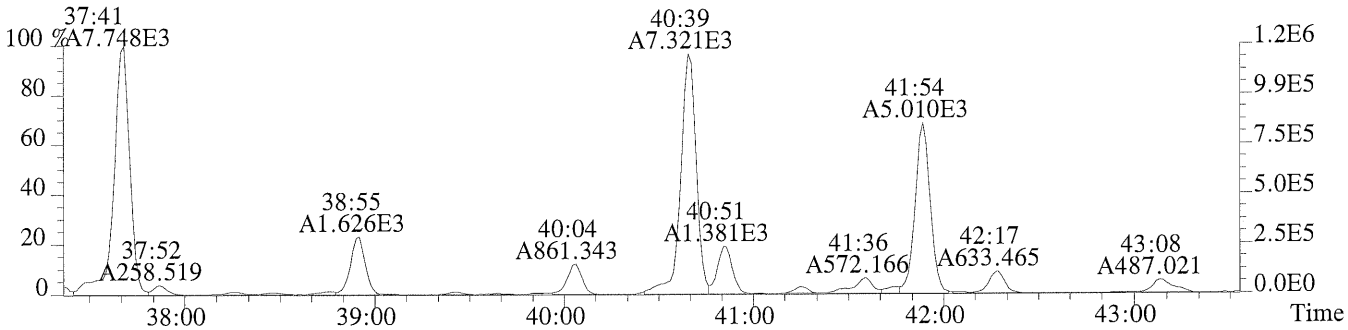
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1432.0,1.00%,F,T)



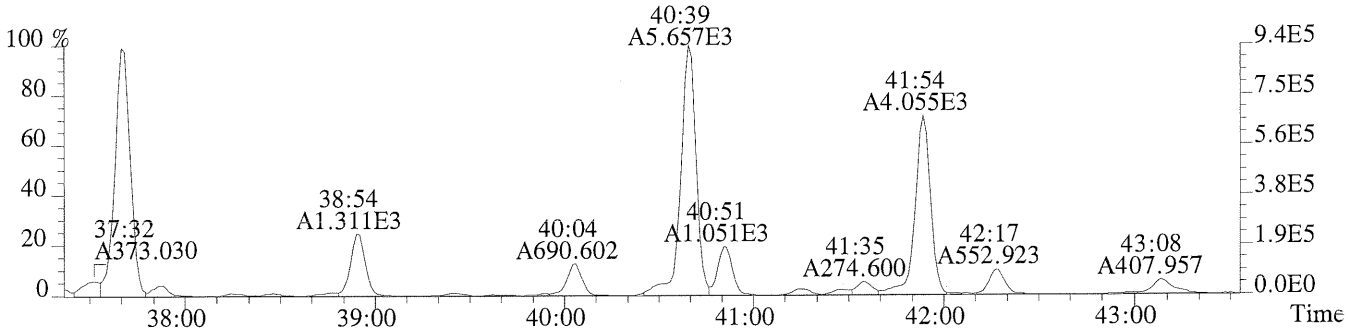
MANUAL INTEGRATION EXPLANATION
1. [illegible] INTEGRATION
2. [illegible] NOT INTEGRATED
3. [illegible] INT
4. [illegible] INCORRECT/INACCURATE
5. OTHER
ANALYST ee REVIEWER
11/17/11 11/21/11

File:U142091 #1-396 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-

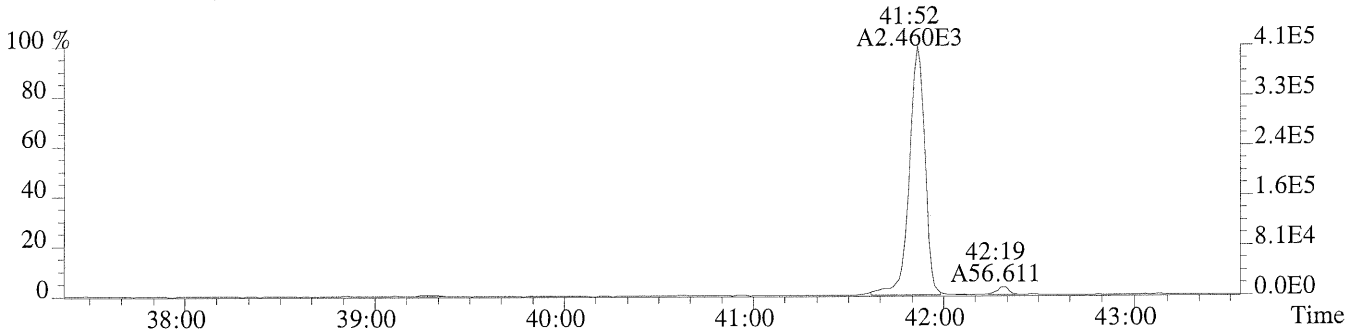
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1820.0,1.00%,F,T)



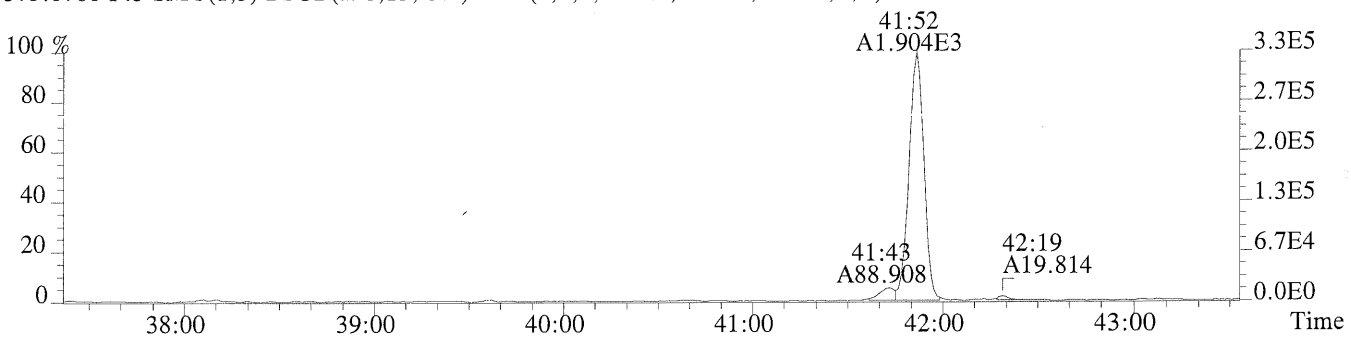
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1256.0,1.00%,F,T)



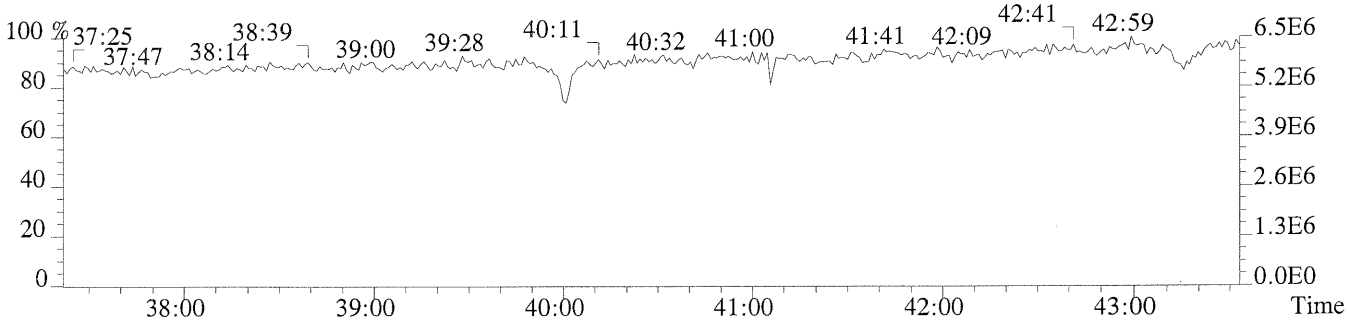
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1212.0,1.00%,F,T)



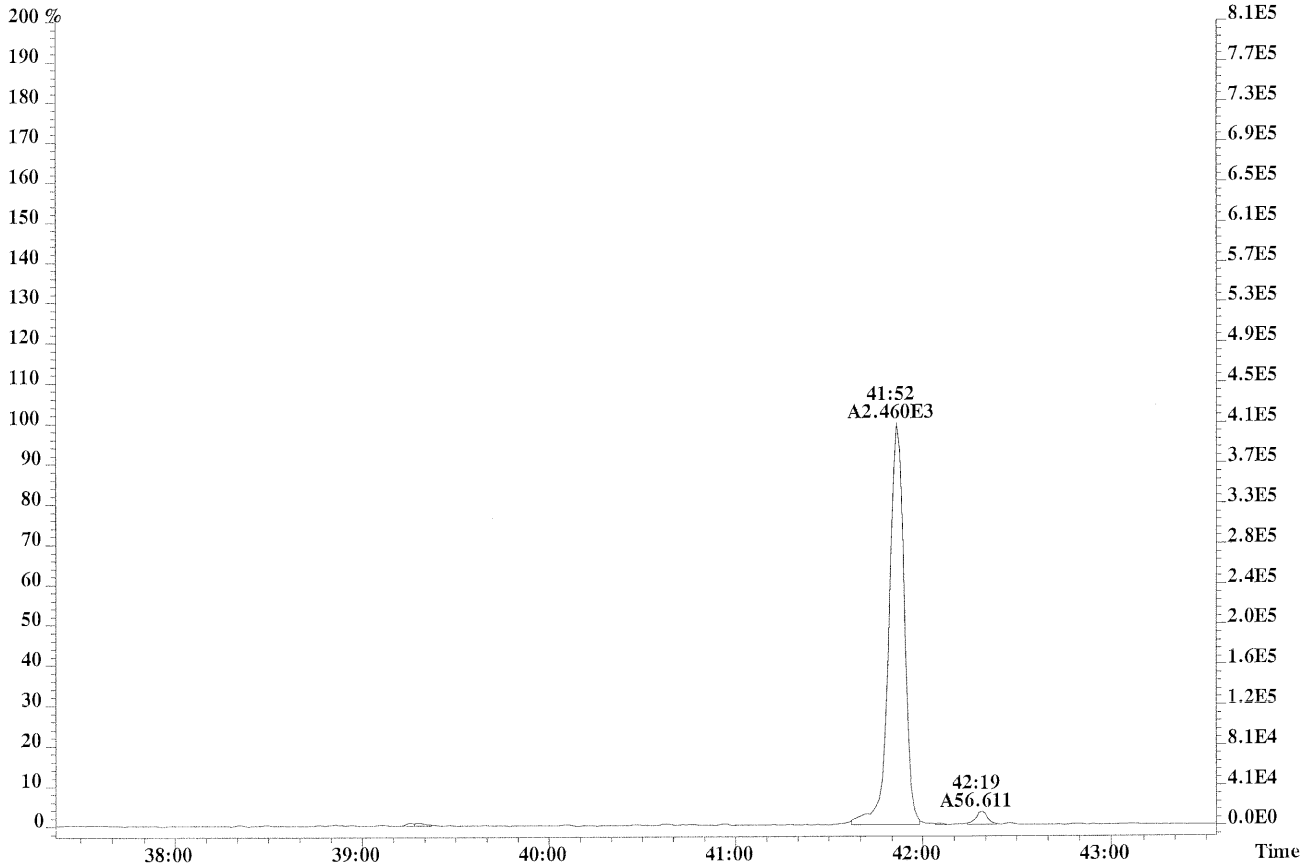
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1708.0,1.00%,F,T)



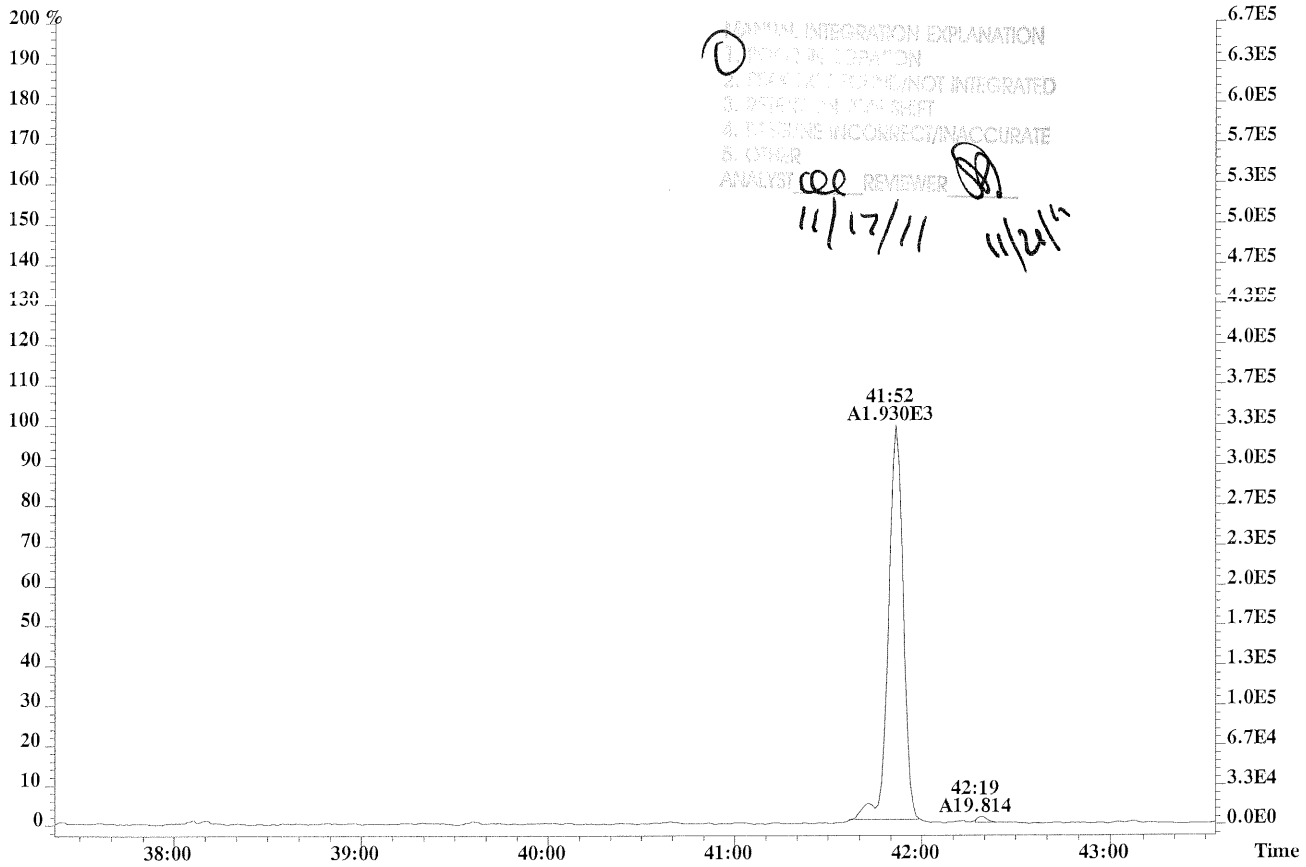
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142091 #1-396 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1212.0,1.00%,F,T)

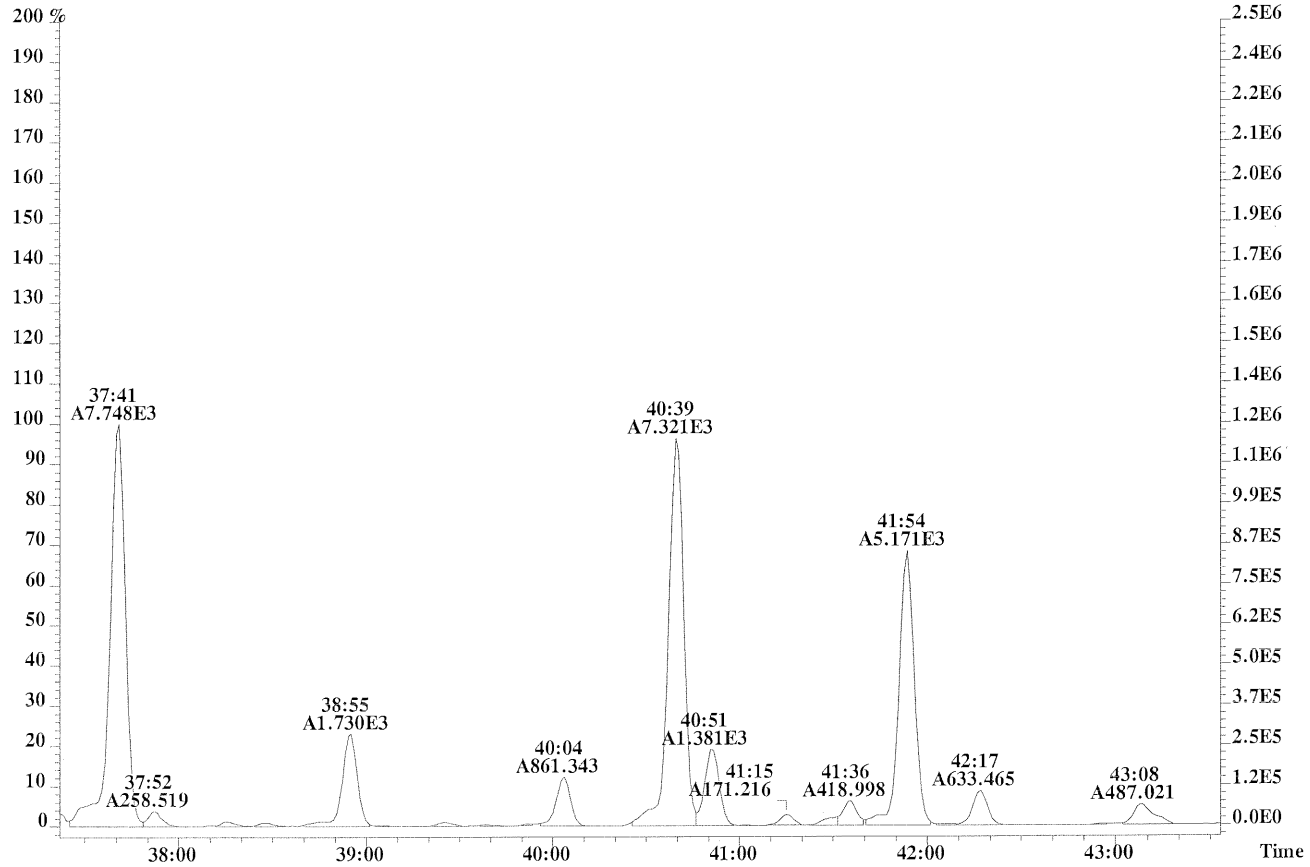


373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1708.0,1.00%,F,T)

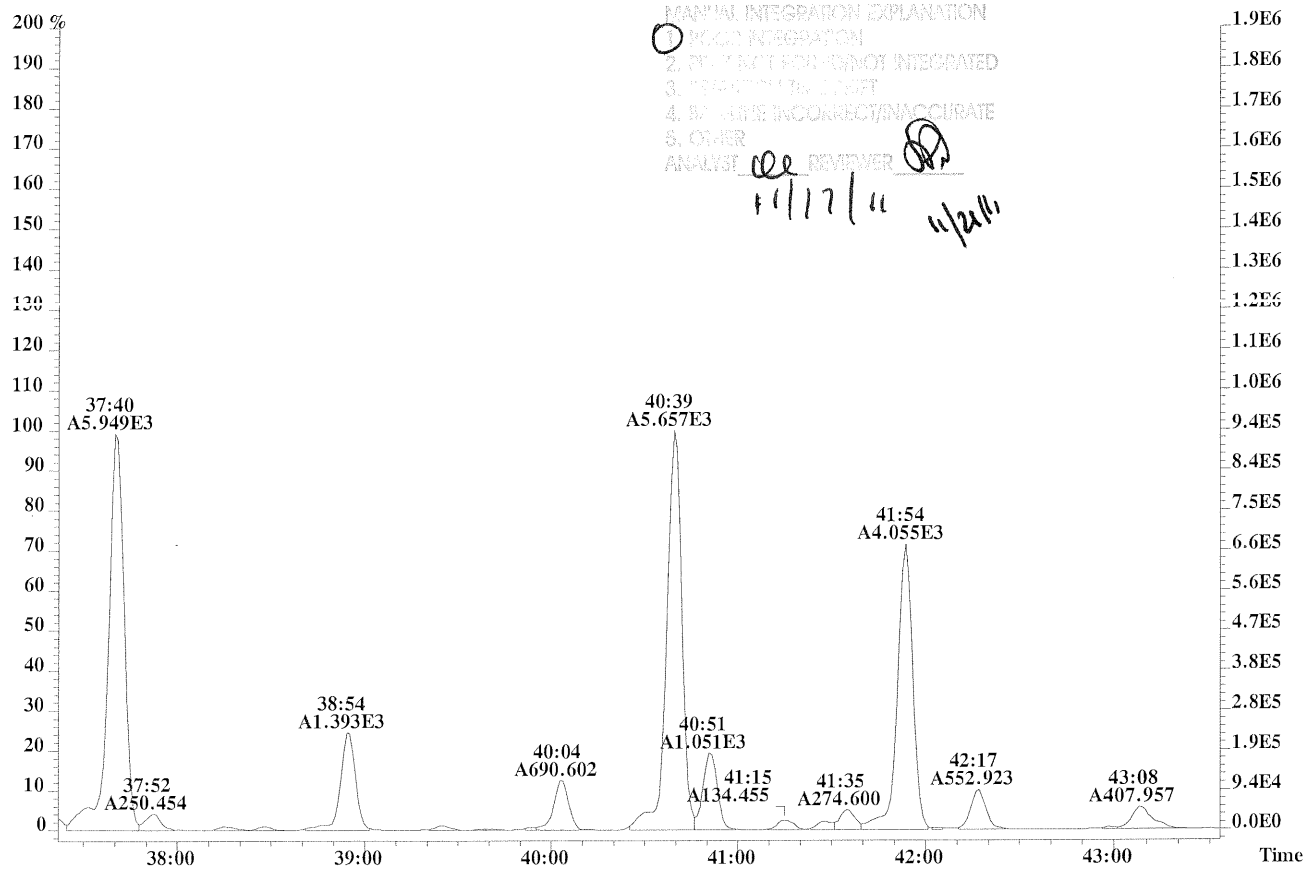


MANUAL INTEGRATION EXPLANATION
1. PEAK OF COMPOUND NOT INTEGRATED
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CCL REVIEWER
11/17/11 11/21/11

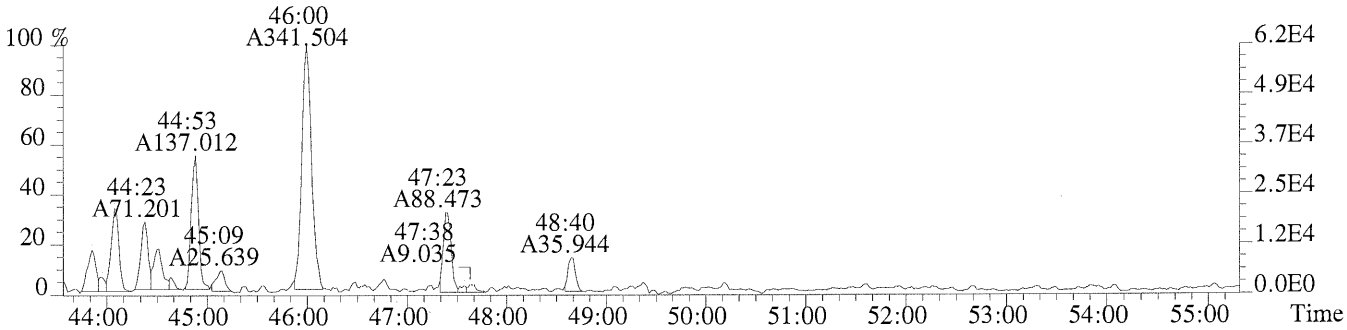
File:U142091 #1-396 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1820.0,1.00%,F,T)



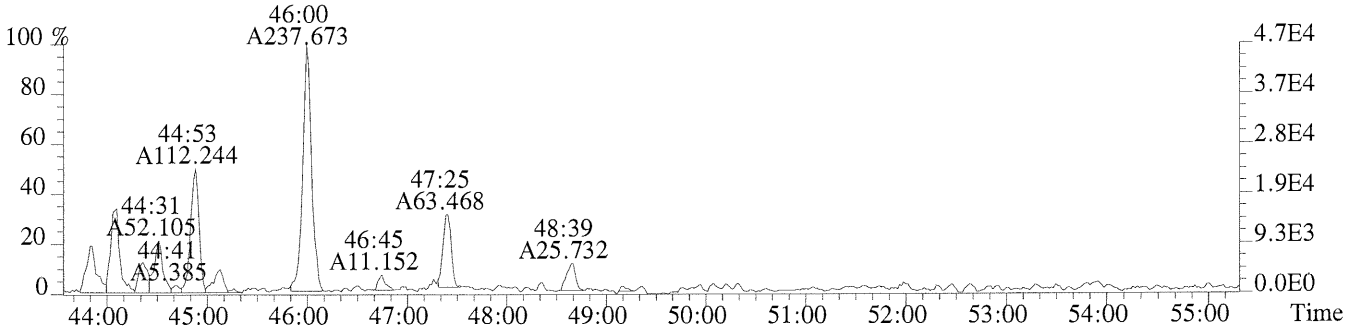
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1256.0,1.00%,F,T)



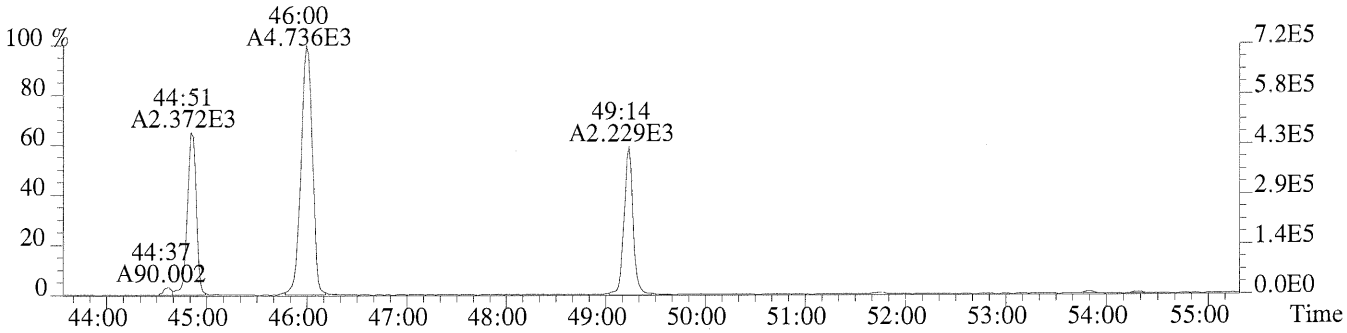
File:U142091 #1-582 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1616.0,1.00%,F,T)



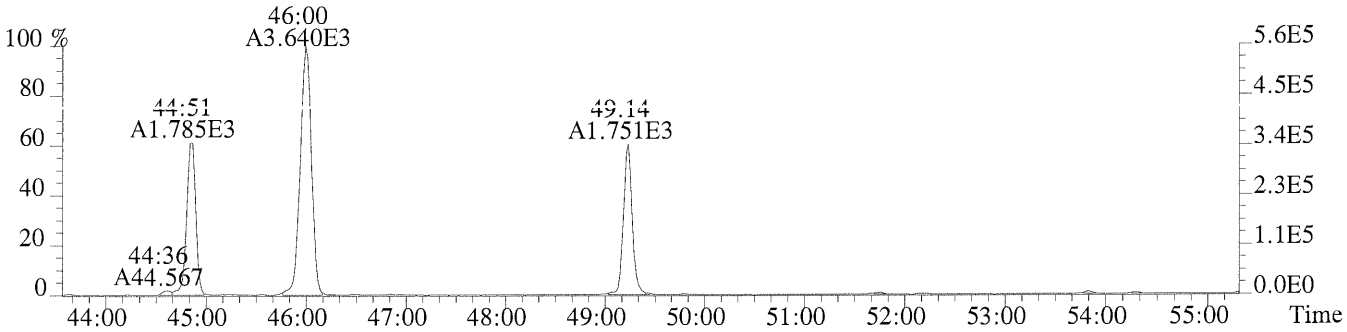
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)



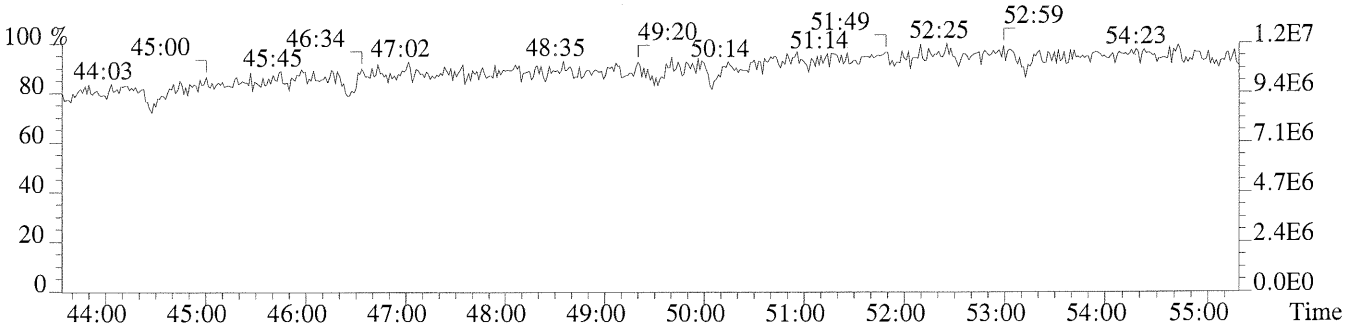
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1608.0,1.00%,F,T)



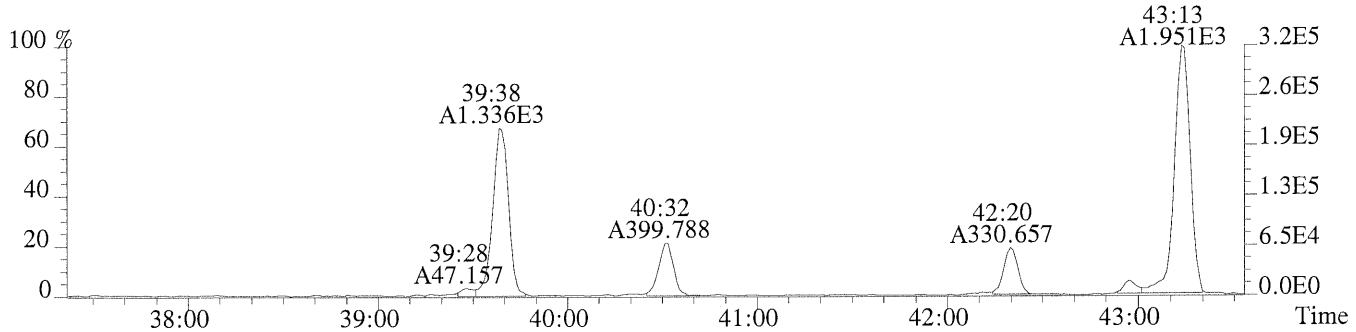
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1852.0,1.00%,F,T)



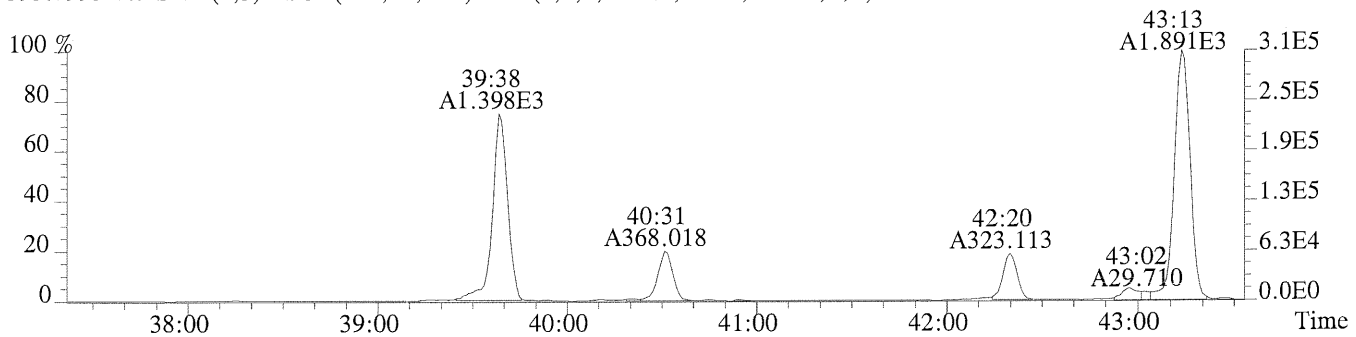
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



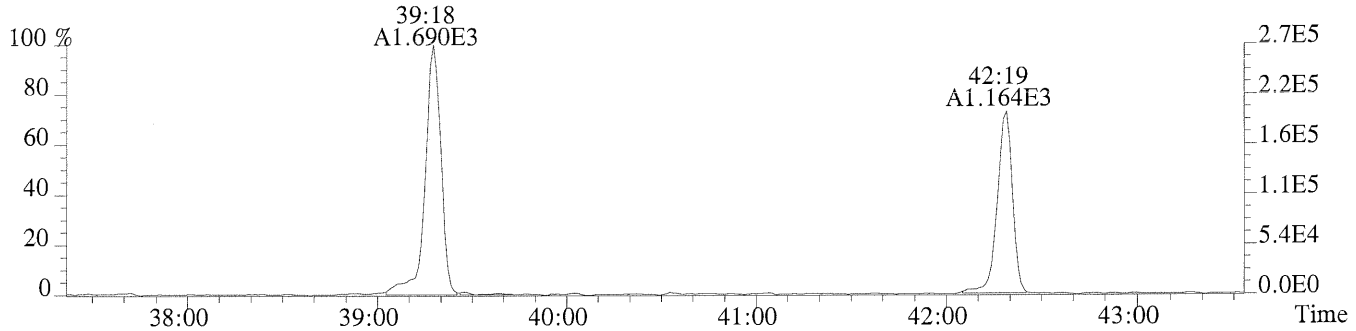
File:U142091 #1-396 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1736.0,1.00%,F,T)



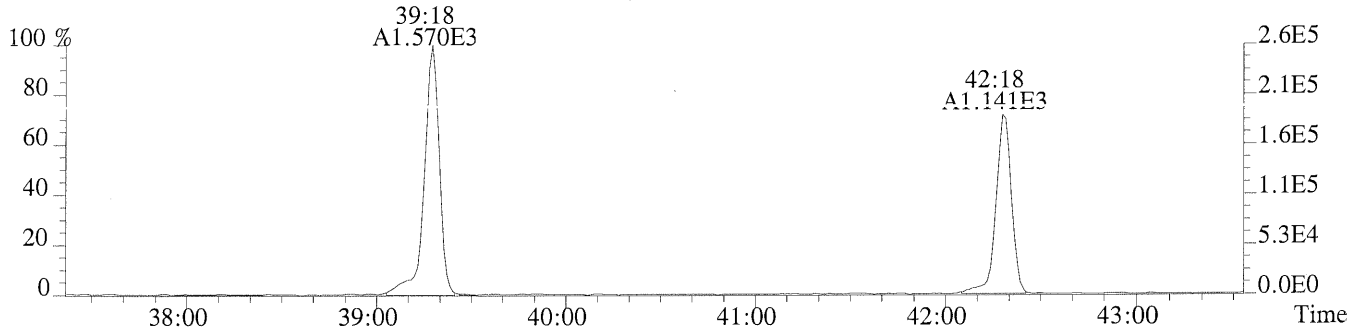
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



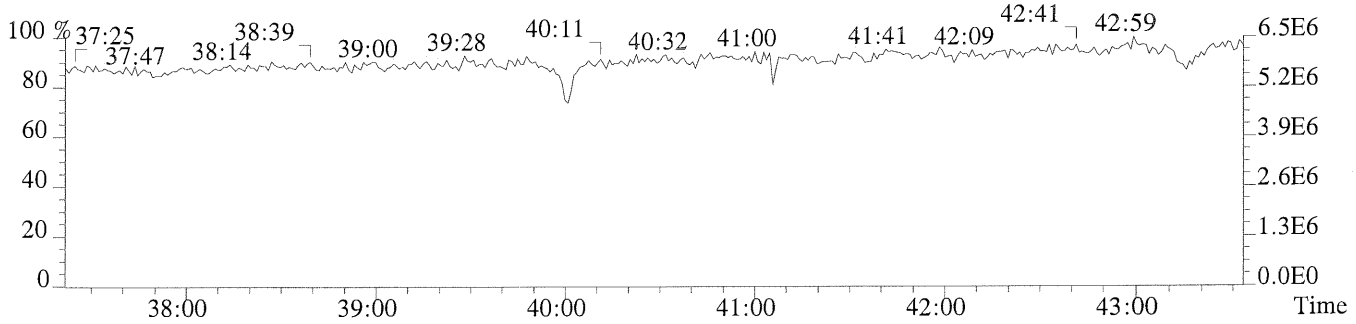
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1140.0,1.00%,F,T)



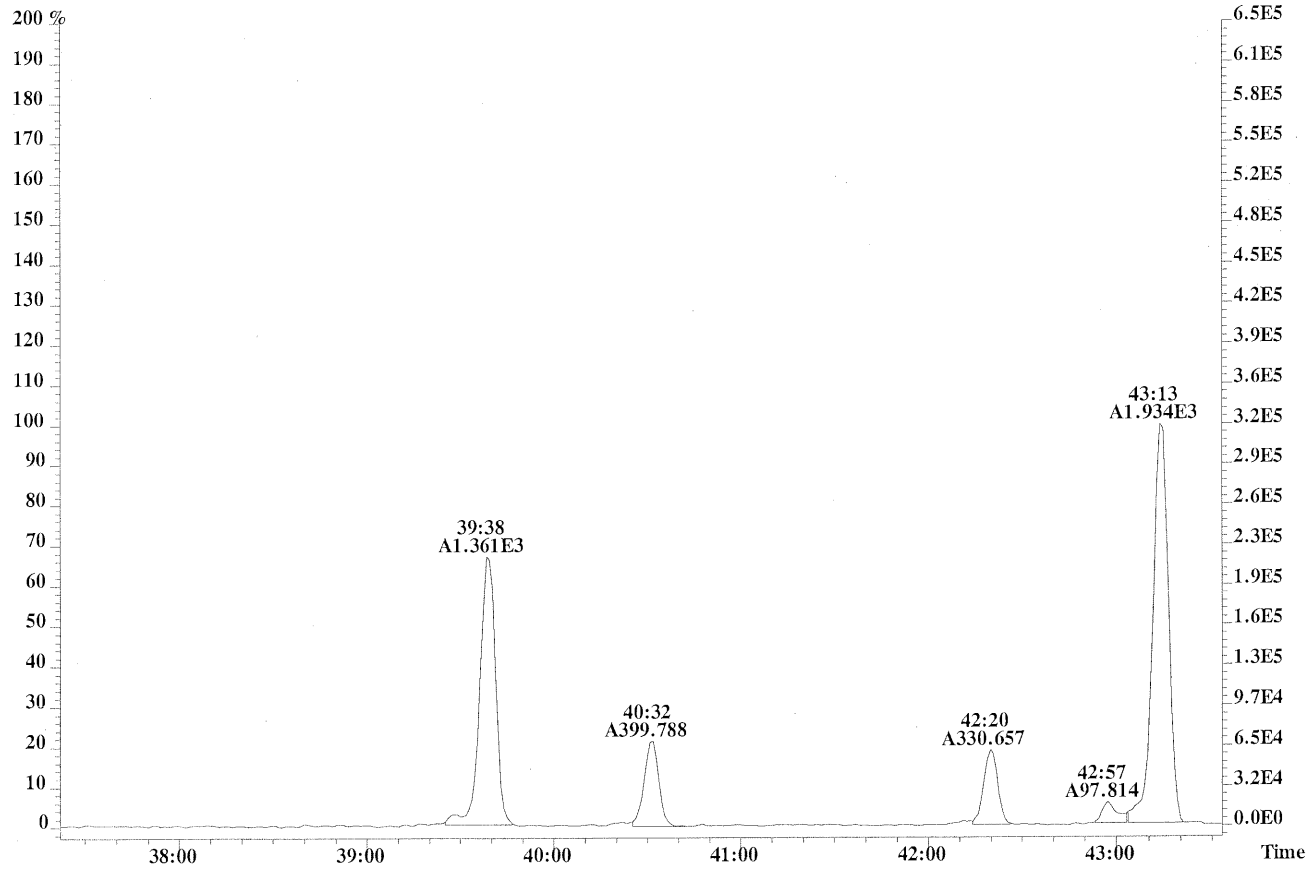
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



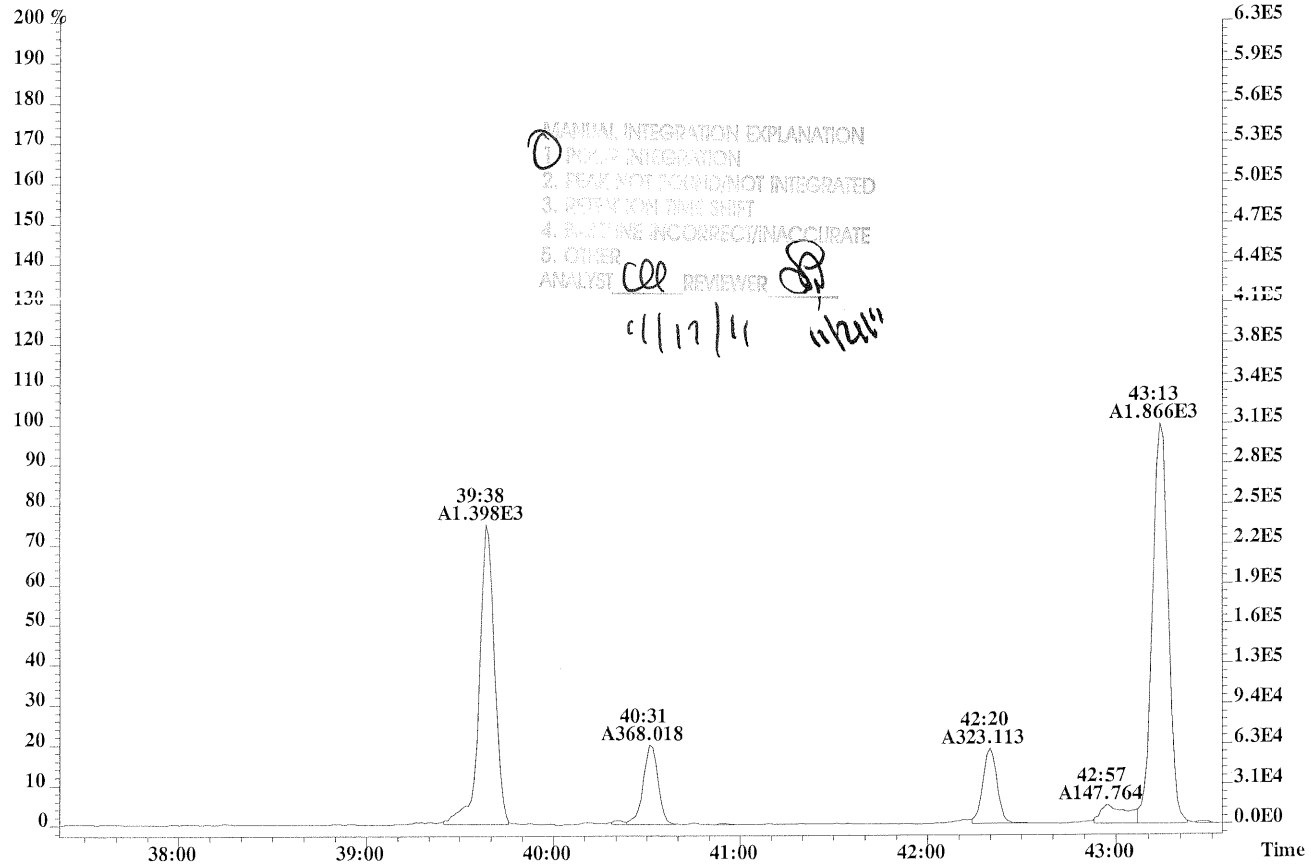
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



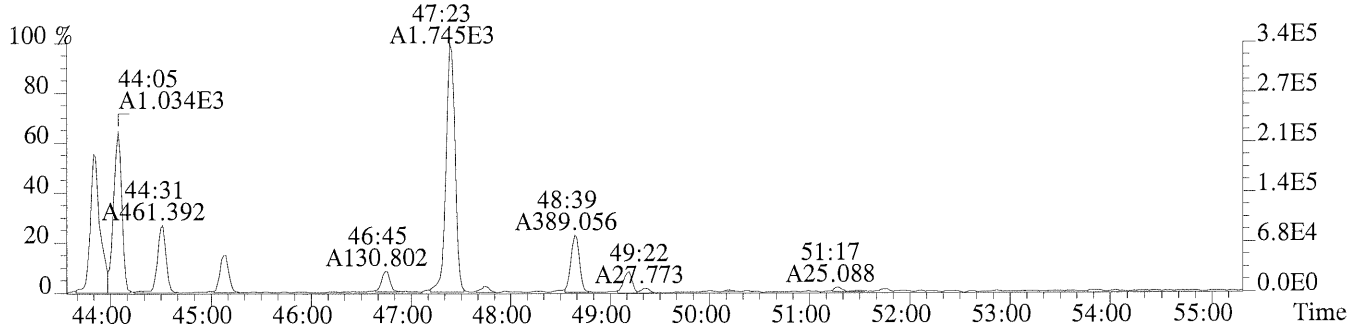
File:U142091 #1-396 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1736.0,1.00%,F,T)



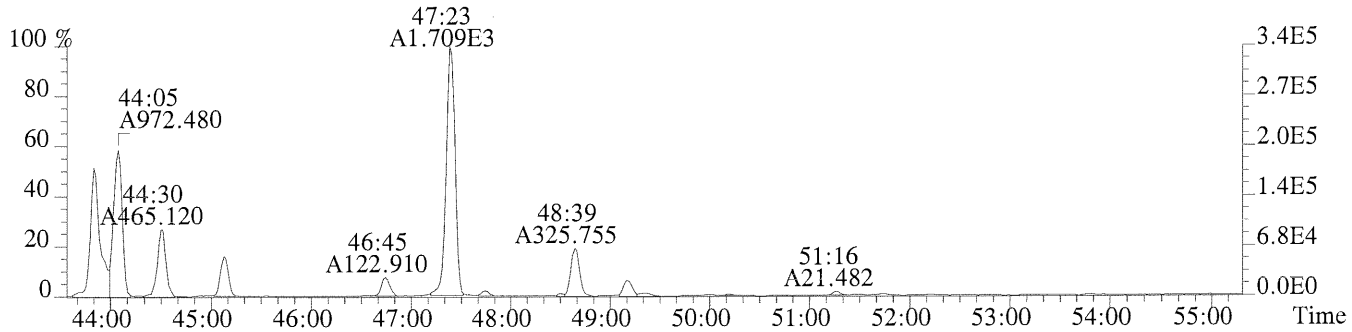
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



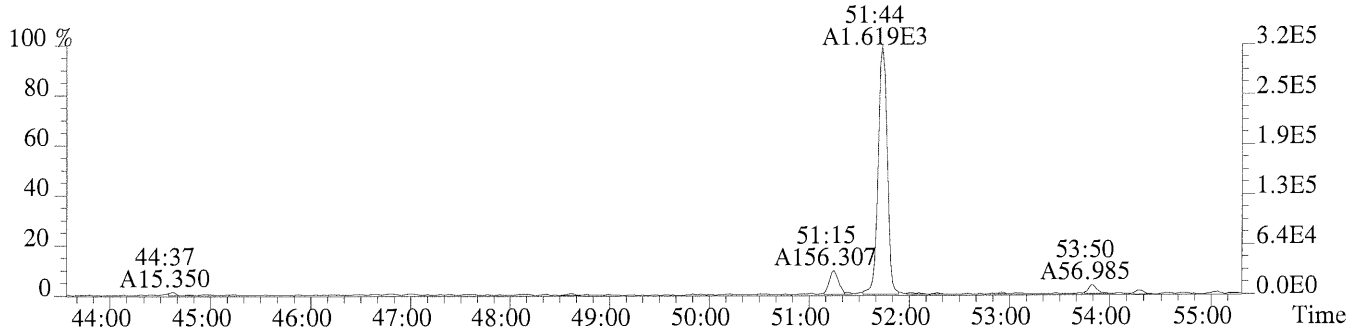
File:U142091 #1-582 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1784.0,1.00%,F,T)



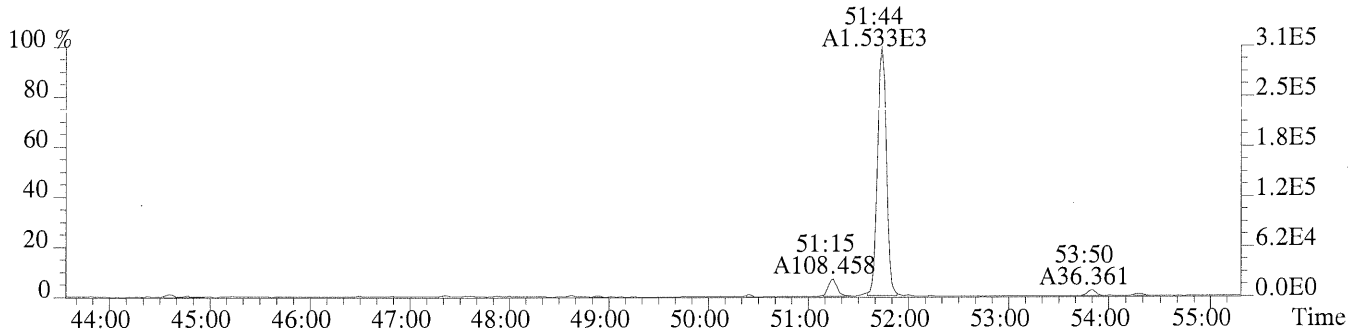
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



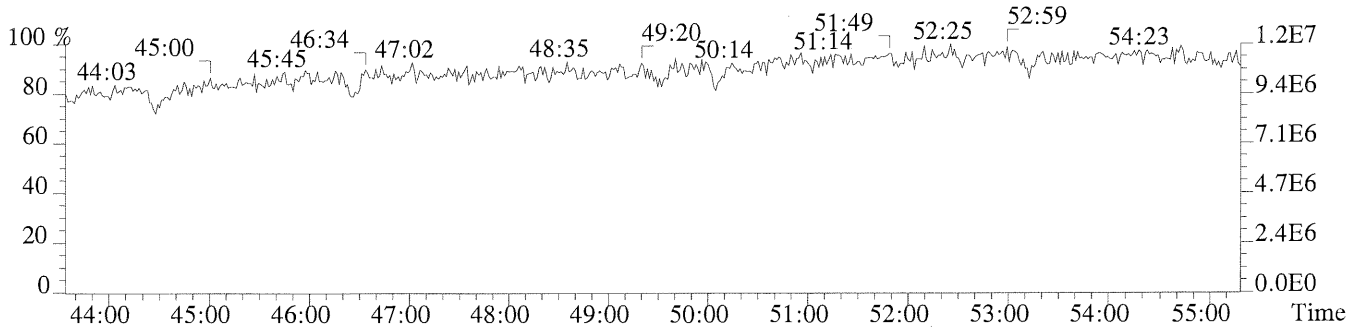
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



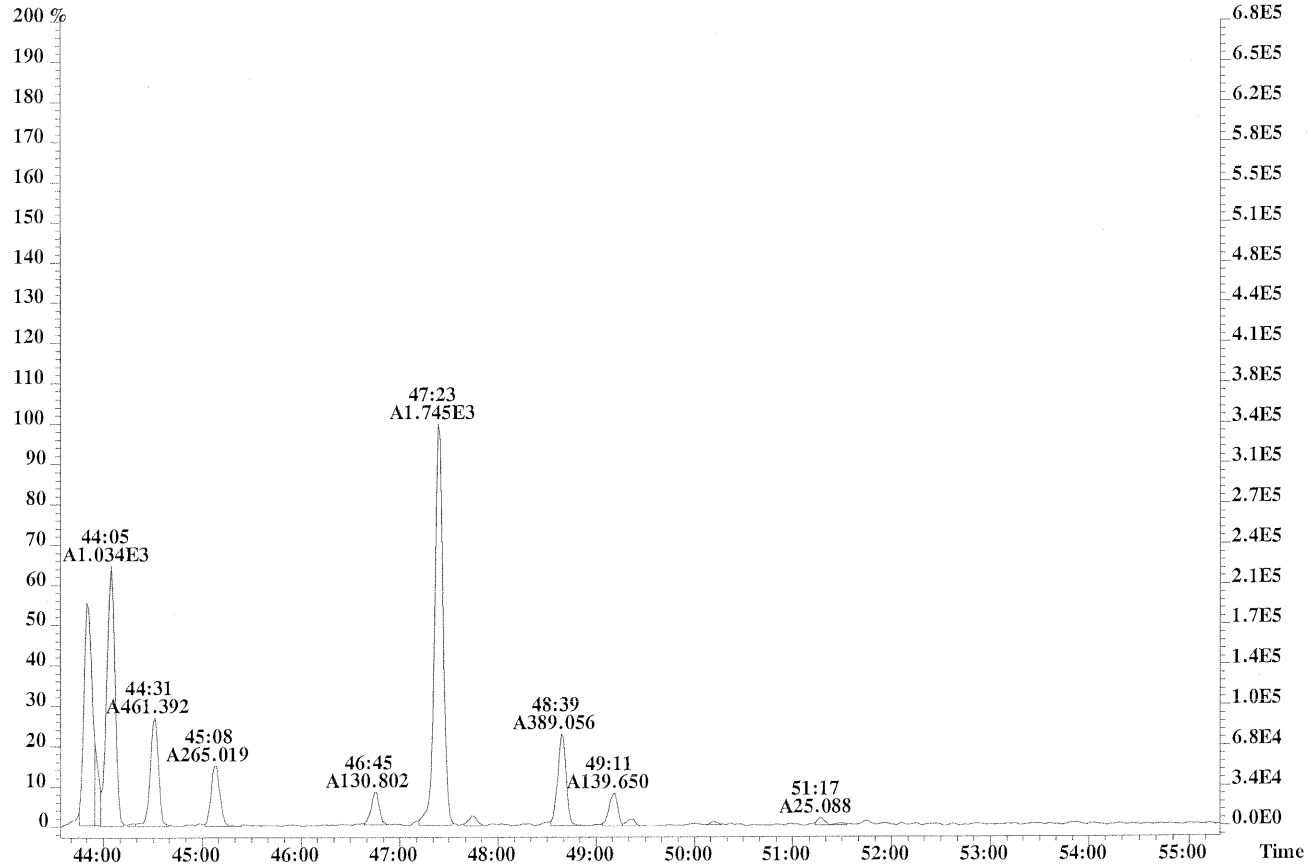
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,968.0,1.00%,F,T)



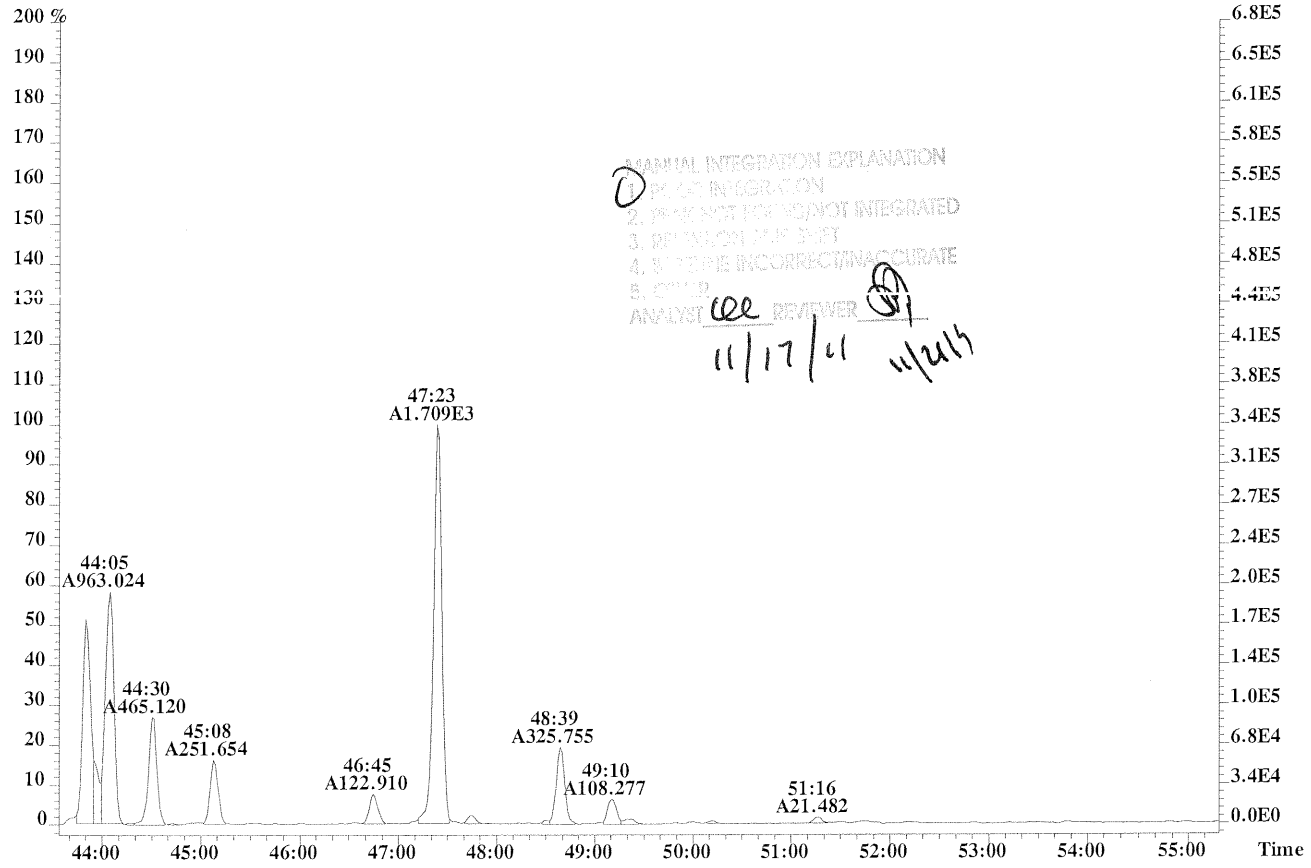
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142091 #1-582 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-004DL B4CS-CS1-
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1784.0,1.00%,F,T)



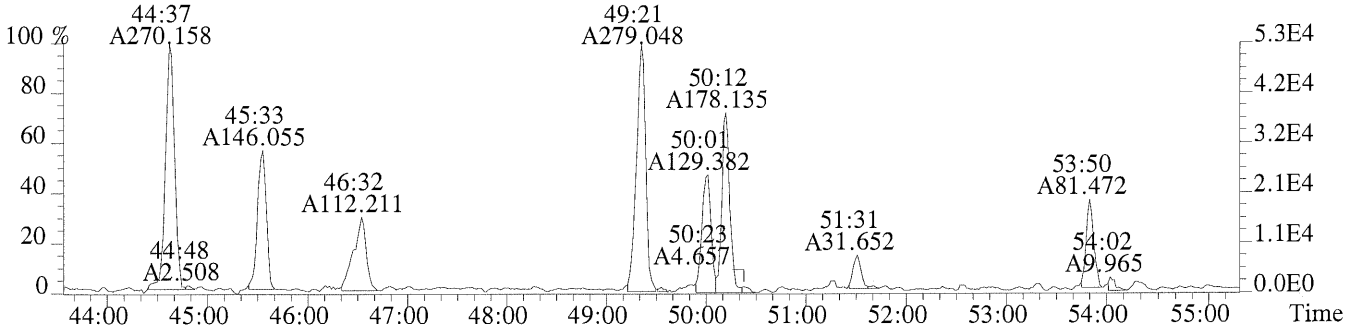
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



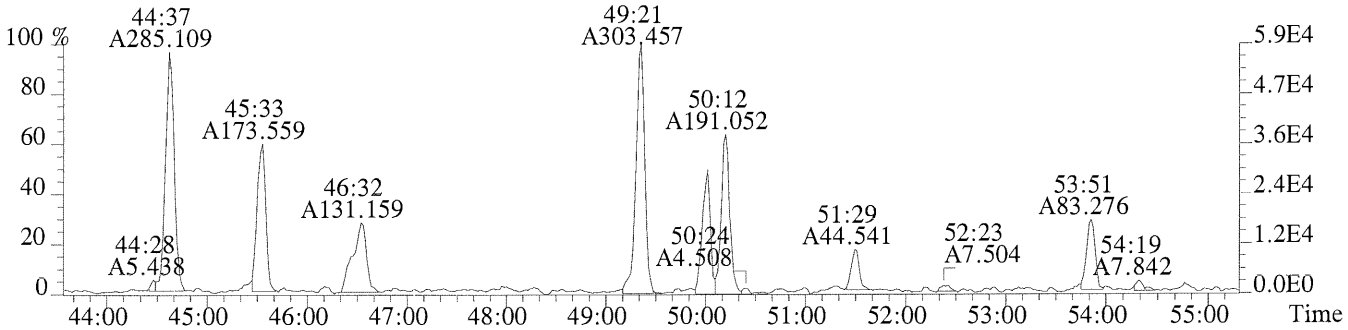
MANUAL INTEGRATION EXPLANATION
1. BLOCK INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. DEVIATION FROM SHEET
4. SLOPE INCORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER
11/17/11 11/21/11

File:U142091 #1-582 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-

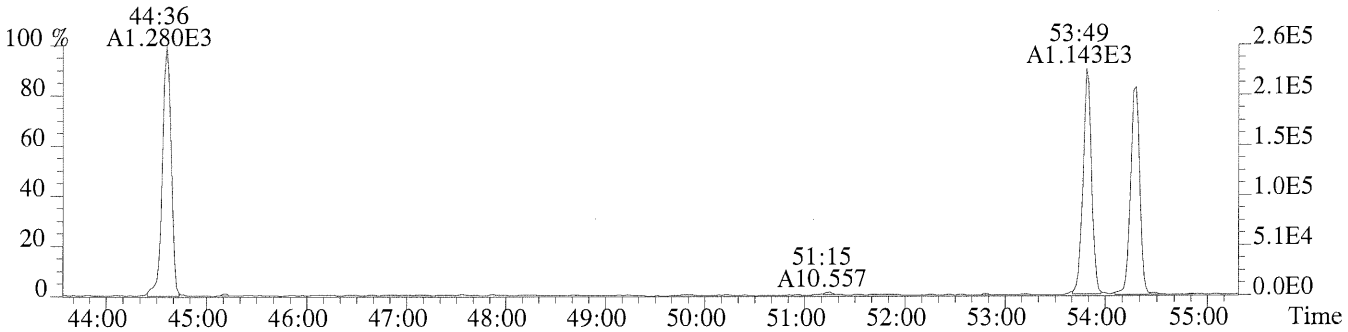
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1276.0,1.00%,F,T)



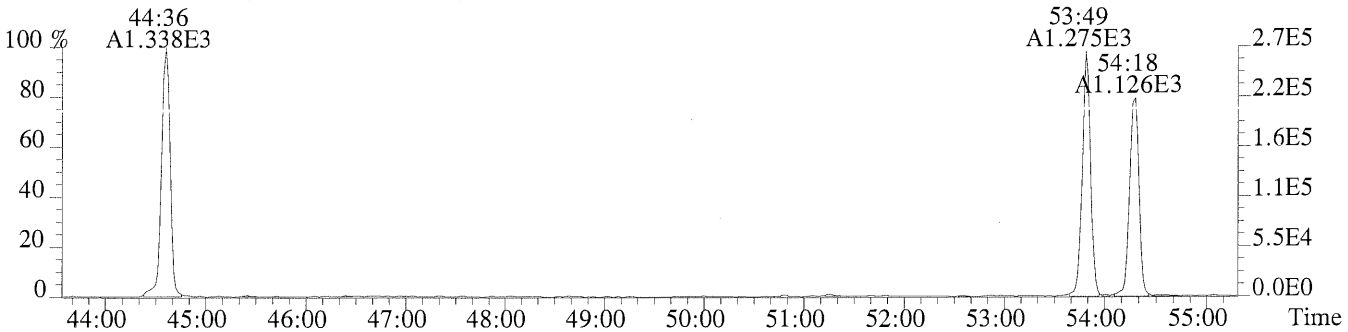
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)



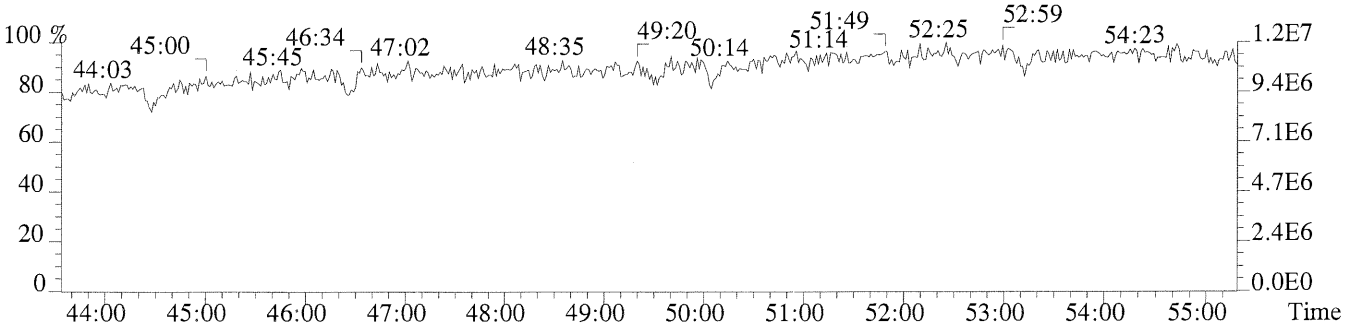
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1140.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)

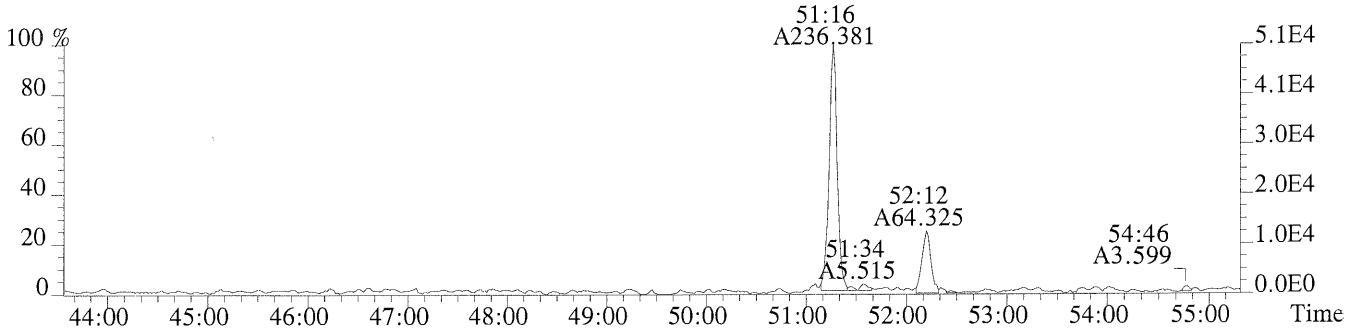


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

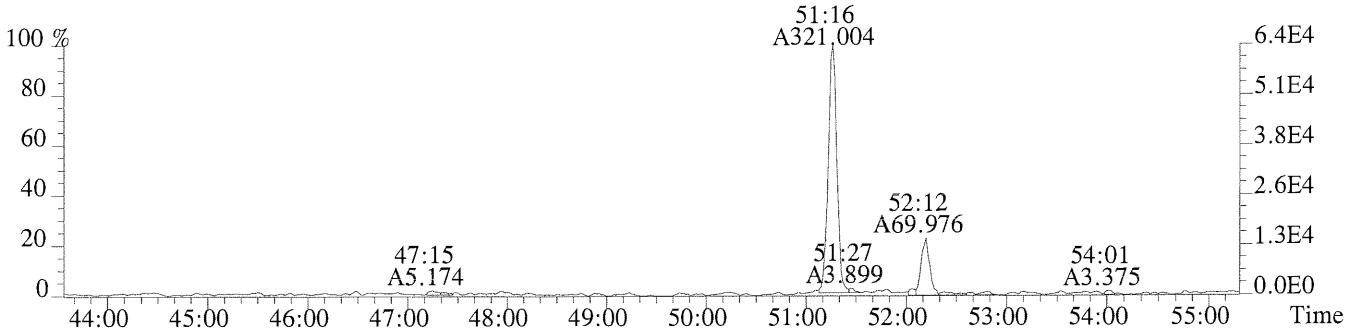


File:U142091 #1-582 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-

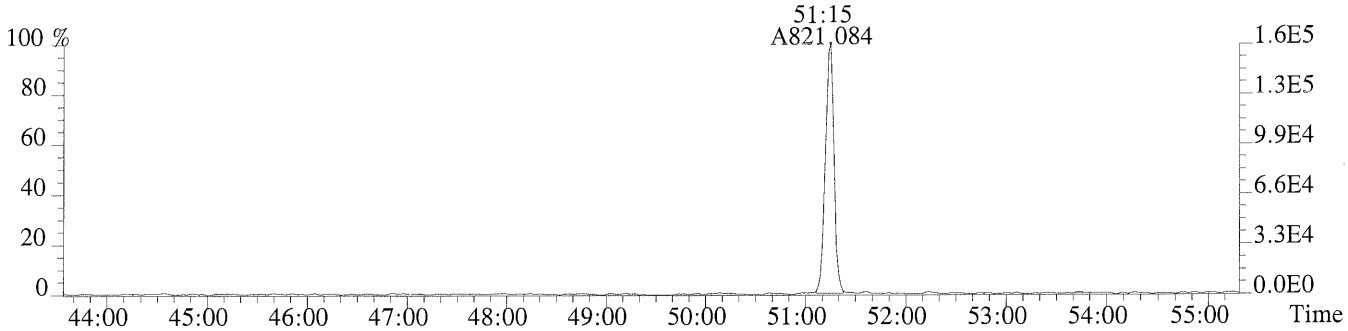
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,760.0,1.00%,F,T)



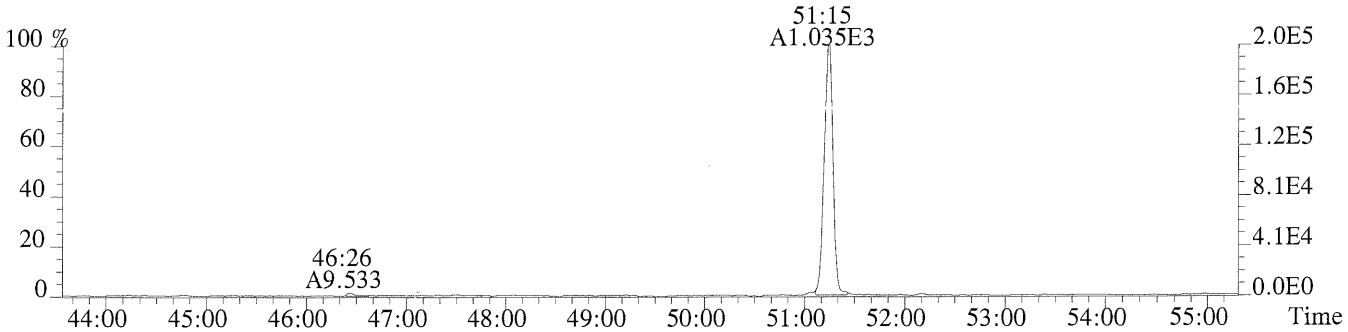
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,588.0,1.00%,F,T)



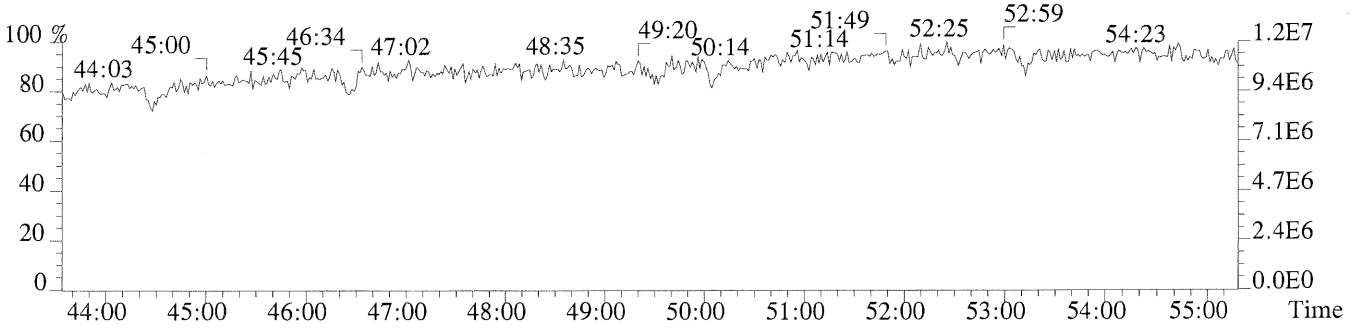
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,828.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)

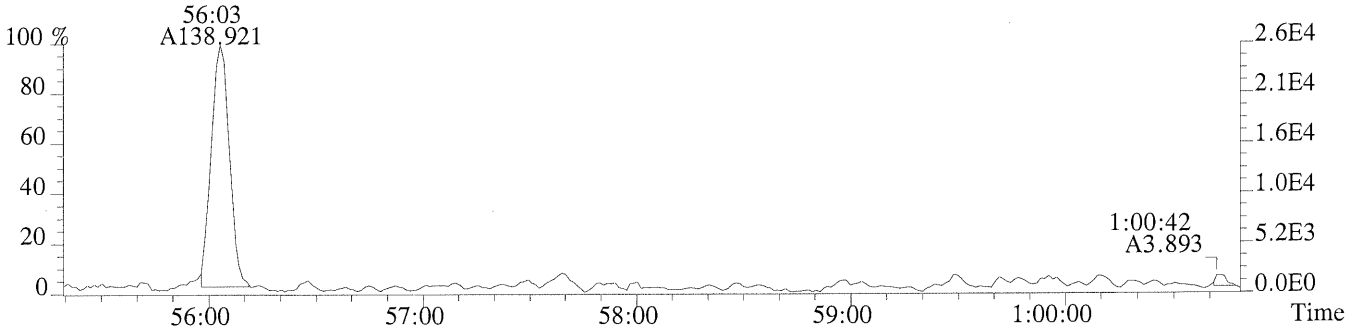


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

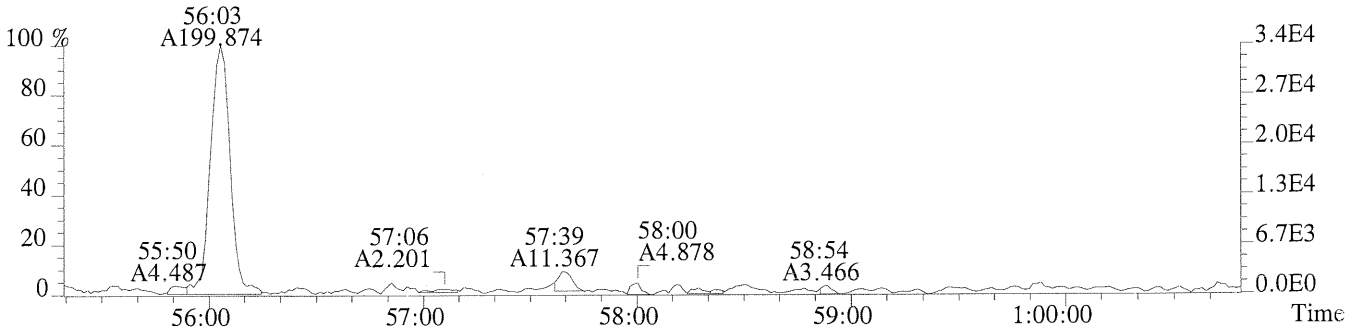


File:U142091 #1-310 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-

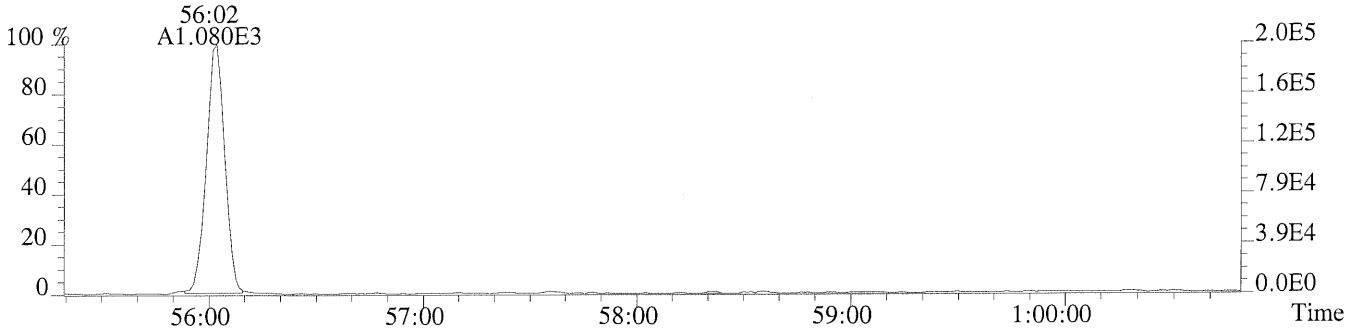
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,956.0,1.00%,F,T)



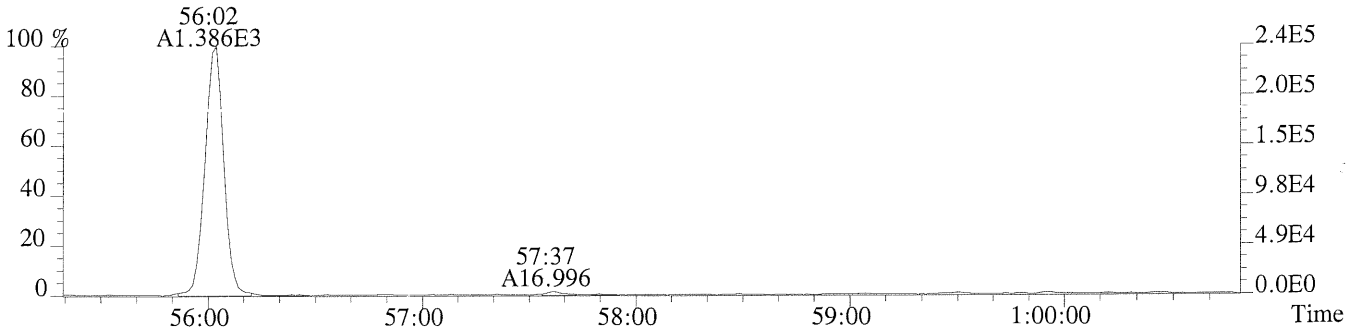
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,720.0,1.00%,F,T)



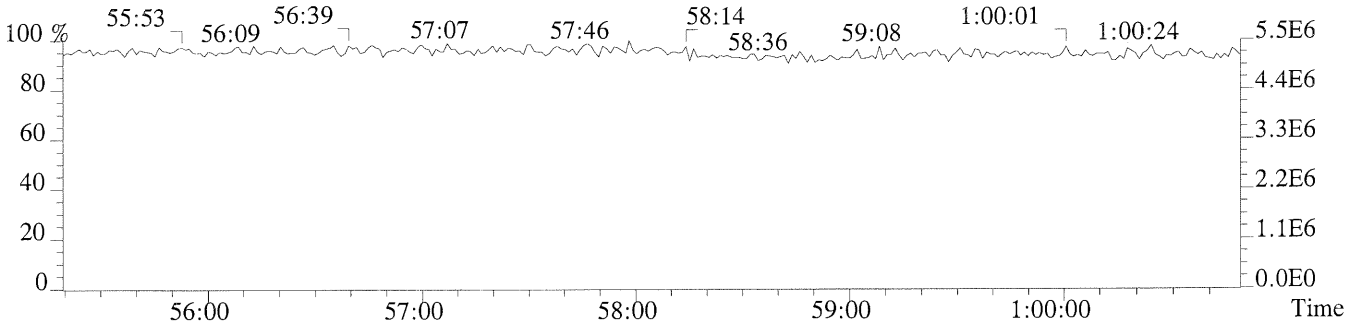
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



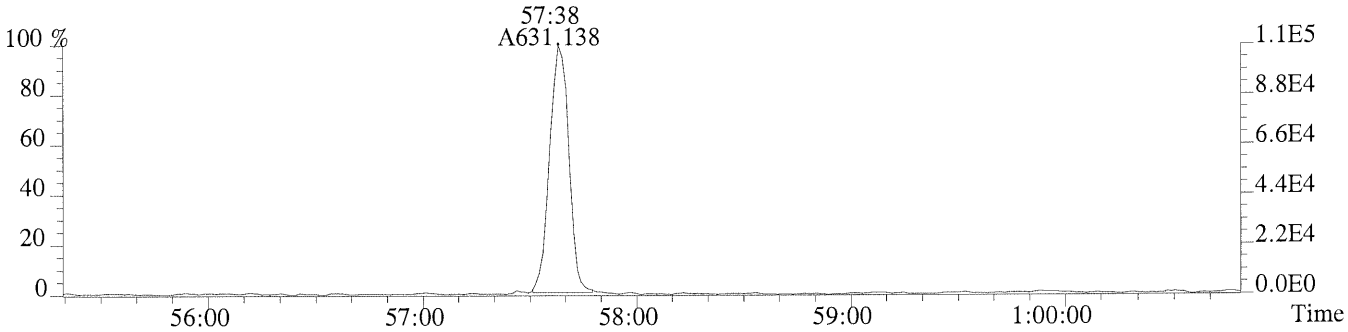
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,920.0,1.00%,F,T)



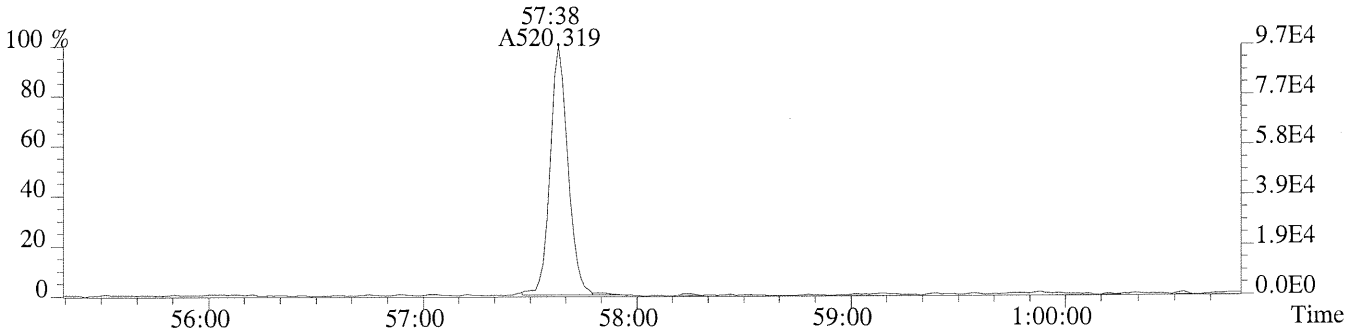
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



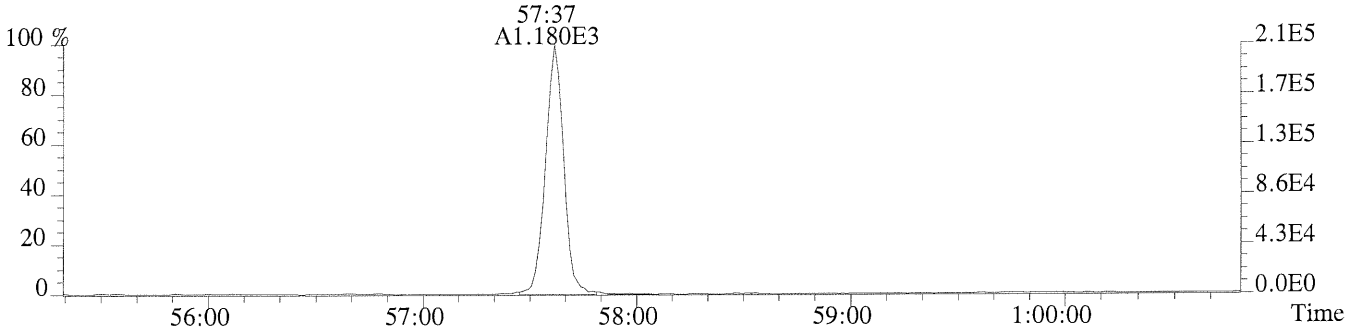
File:U142091 #1-310 Acq:11-NOV-2011 15:25:12 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-004DL B4CS-CS1-
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,800.0,1.00%,F,T)



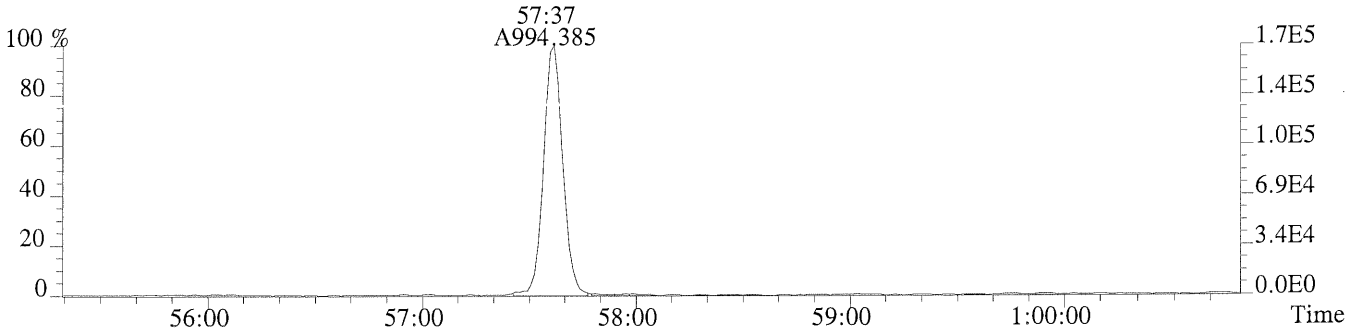
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,560.0,1.00%,F,T)



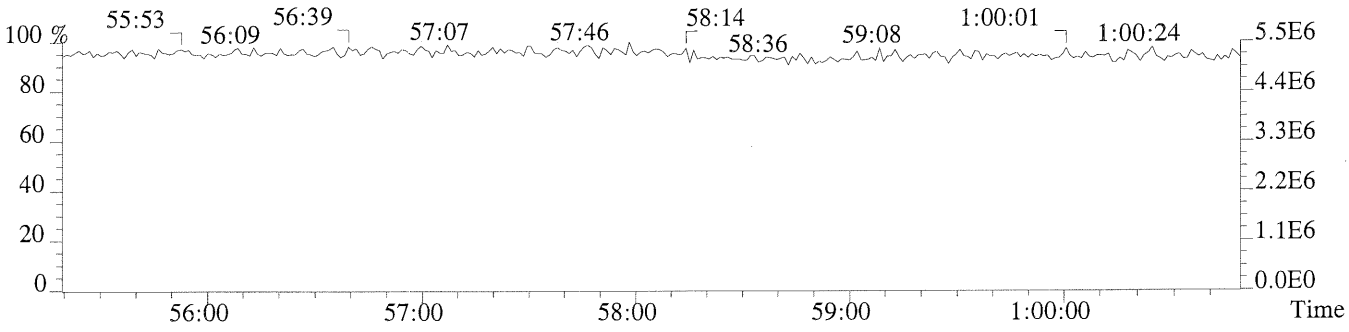
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,524.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4CS-CS2-PCBs

Run #11 Filename U142095 Samp: 1 Inj: 1 Acquired: 12-NOV-11 09:34:39
Processed: 15-NOV-11 15:42:59 Sample ID: E1101017-005

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	13:18	8.204e+02	2.630e+02	3.12	y	n	1.071
2	1	PCB-2	15:24	1.817e+02	5.784e+01	3.14	y	n	1.077
3	1	PCB-3	15:35	8.472e+02	2.821e+02	3.00	y	n	1.036
4	1	PCB-4	15:50	5.359e+03	3.695e+03	1.45	y	n	1.114
5	1	PCB-10	NotFnd	*	*	*	n	y	1.574
6	2	PCB-9	NotFnd	*	*	*	n	n	1.307
7	2	PCB-7	NotFnd	*	*	*	n	n	1.480
8	2	PCB-6	18:18	3.651e+03	2.661e+03	1.37	y	n	1.338
9	2	PCB-5	NotFnd	*	*	*	n	n	1.335
10	2	PCB-8	18:44	2.465e+04	1.647e+04	1.50	y	n	1.431
11	2	PCB-14	NotFnd	*	*	*	n	n	1.301
12	2	PCB-11	21:16	7.053e+03	4.301e+03	1.64	y	n	1.300
13	2	PCB-12/13	NotFnd	*	*	*	n	n	1.318
14	2	PCB-15	21:53	1.124e+04	7.386e+03	1.52	y	n	0.977
15	2	PCB-19	19:02	1.295e+03	1.233e+03	1.05	y	n	1.001
16	2	PCB-18/30	20:59	9.633e+03	9.722e+03	0.99	y	n	1.174
17	2	PCB-17	21:22	6.776e+03	6.658e+03	1.02	y	n	1.001
18	2	PCB-27	21:36	1.491e+03	1.477e+03	1.01	y	n	1.332
19	2	PCB-24	NotFnd	*	*	*	n	n	1.364
20	2	PCB-16	21:50	6.771e+03	6.871e+03	0.99	y	n	0.893
21	2	PCB-32	22:21	5.788e+03	5.735e+03	1.01	y	n	1.431
22	3	PCB-34	NotFnd	*	*	*	n	y	1.485
23	3	PCB-23	NotFnd	*	*	*	n	y	1.554
24	3	PCB-26/29	24:06	6.405e+03	6.237e+03	1.03	y	y	1.529
25	3	PCB-25	24:21	3.221e+03	3.135e+03	1.03	y	y	1.602
26	3	PCB-31	24:40	2.999e+04	2.830e+04	1.06	y	y	1.569
27	3	PCB-20/28	24:57	3.529e+04	3.287e+04	1.07	y	y	1.523
28	3	PCB-21/33	25:12	1.701e+04	1.732e+04	0.98	y	y	1.436
29	3	PCB-22	25:36	1.213e+04	1.139e+04	1.06	y	y	1.513
30	3	PCB-36	NotFnd	*	*	*	n	y	1.488
31	3	PCB-39	NotFnd	*	*	*	n	y	1.639
32	3	PCB-38	NotFnd	*	*	*	n	y	1.333
33	3	PCB-35	NotFnd	*	*	*	n	y	1.389
34	3	PCB-37	29:02	4.172e+03	4.955e+03	0.84	n	y	1.089
35	2	PCB-54	NotFnd	*	*	*	n	n	1.002
36	3	PCB-50/53	24:22	1.751e+03	2.180e+03	0.80	y	n	1.226
37	3	PCB-45/51	25:03	2.595e+03	3.375e+03	0.77	y	y	0.999
38	3	PCB-46	25:22	5.907e+02	7.324e+02	0.81	y	y	0.986
39	3	PCB-52	26:49	8.266e+03	1.063e+04	0.78	y	n	1.239
40	3	PCB-43/73	NotFnd	*	*	*	n	n	1.337
41	3	PCB-49/69	27:18	4.976e+03	6.244e+03	0.80	y	y	1.358
42	3	PCB-48	27:36	2.406e+03	2.922e+03	0.82	y	y	1.270
43	3	PCB-44/47/65	27:49	7.147e+03	9.303e+03	0.77	y	y	1.306
44	3	PCB-59/62/75	28:10	1.194e+03	1.587e+03	0.75	y	y	1.565
45	3	PCB-42	28:21	1.343e+03	1.618e+03	0.83	y	y	1.099
46	3	PCB-40/41/71	28:51	4.218e+03	5.095e+03	0.83	y	y	1.197
47	3	PCB-64	29:04	2.736e+03	3.774e+03	0.72	y	y	1.597
48	3	PCB-72	NotFnd	*	*	*	n	n	1.597
49	3	PCB-68	30:14	1.481e+02	1.660e+02	0.89	n	y	1.729
50	3	PCB-57	NotFnd	*	*	*	n	y	1.499

51	3	PCB-58	NotFnd	*	*	*	n	y	1.590
52	3	PCB-67	31:04	1.550e+02	1.971e+02	0.79	y	y	1.594
53	3	PCB-63	31:19	1.407e+02	1.348e+02	1.04	n	y	1.494
54	3	PCB-61/70/74/76	31:39	7.449e+03	9.578e+03	0.78	y	y	1.512
55	3	PCB-66	32:00	2.927e+03	3.978e+03	0.74	y	y	1.414
56	3	PCB-55	NotFnd	*	*	*	n	y	1.401
57	4	PCB-56	32:40	1.488e+03	1.865e+03	0.80	y	y	1.429
58	4	PCB-60	32:53	8.459e+02	1.123e+03	0.75	y	y	1.445
59	4	PCB-80	NotFnd	*	*	*	n	n	1.493
60	4	PCB-79	NotFnd	*	*	*	n	y	1.372
61	4	PCB-78	NotFnd	*	*	*	n	n	1.245
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	36:24	1.699e+02	1.900e+02	0.89	n	n	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	28:08	3.925e+01	3.832e+01	1.02	n	y	1.138
66	3	PCB-103	30:06	2.555e+01	1.322e+01	1.93	n	y	0.939
67	3	PCB-94	NotFnd	*	*	*	n	y	0.840
68	3	PCB-95	30:47	3.007e+03	1.957e+03	1.54	y	n	0.881
69	3	PCB-93/100	NotFnd	*	*	*	n	y	0.901
70	3	PCB-98/102	31:07	9.563e+01	6.815e+01	1.40	y	y	0.879
71	3	PCB-88/91	31:38	4.495e+02	2.646e+02	1.70	y	y	0.850
72	3	PCB-84	31:52	6.061e+02	3.444e+02	1.76	y	y	0.746
73	3	PCB-89	32:21	2.814e+01	1.990e+01	1.41	y	n	0.665
74	4	PCB-121	NotFnd	*	*	*	n	n	1.382
75	4	PCB-92	33:09	4.698e+02	2.751e+02	1.71	y	n	0.951
76	4	PCB-90/101/113	33:45	3.920e+03	2.449e+03	1.60	y	n	1.101
77	4	PCB-83/99	34:20	1.253e+03	6.382e+02	1.96	n	n	1.007
78	4	PCB-112	NotFnd	*	*	*	n	n	1.282
79	4	PCB-86/87/97/109/119/125	34:56	1.938e+03	1.224e+03	1.58	y	y	1.129
80	4	PCB-117	35:27	1.254e+02	1.068e+02	1.17	n	y	1.243
81	4	PCB-85/116	35:34	6.629e+02	5.222e+02	1.27	n	y	1.120
82	4	PCB-110/115	35:43	2.938e+03	1.821e+03	1.61	y	y	1.310
83	4	PCB-82	36:02	1.938e+02	1.286e+02	1.51	y	n	0.801
84	4	PCB-111	NotFnd	*	*	*	n	n	1.362
85	4	PCB-120	NotFnd	*	*	*	n	n	1.277
86	5	PCB-108/124	NotFnd	*	*	*	n	n	1.077
87	5	PCB-107	38:17	9.522e+01	5.616e+01	1.70	y	y	1.208
88	5	PCB-123	NotFnd	*	*	*	n	y	1.018
89	5	PCB-106	38:34	1.470e+02	1.265e+02	1.16	n	y	1.052
90	5	PCB-118	38:44	1.809e+03	1.081e+03	1.67	y	y	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	1.099
92	5	PCB-114	NotFnd	*	*	*	n	y	0.991
93	5	PCB-105	39:53	4.947e+02	3.175e+02	1.56	y	y	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	1.115
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.359
98	4	PCB-150	NotFnd	*	*	*	n	n	1.482
99	4	PCB-136	34:14	7.955e+02	5.744e+02	1.38	y	y	1.314
100	4	PCB-145	NotFnd	*	*	*	n	n	1.431
101	4	PCB-148	NotFnd	*	*	*	n	n	1.019
102	4	PCB-135/151	36:38	1.465e+03	1.150e+03	1.27	y	n	1.023
103	4	PCB-154	NotFnd	*	*	*	n	n	1.208
104	4	PCB-144	37:13	1.754e+02	1.570e+02	1.12	y	n	1.012
105	5	PCB-147/149	37:34	3.091e+03	2.455e+03	1.26	y	n	1.269
106	5	PCB-134	37:46	1.294e+02	8.782e+01	1.47	n	n	0.975
107	5	PCB-143	NotFnd	*	*	*	n	n	1.105

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.212
109	5	PCB-131	NotFnd	*	*	*	n	n	1.035
110	5	PCB-142	NotFnd	*	*	*	n	n	1.009
111	5	PCB-132	38:49	8.218e+02	6.193e+02	1.33	y	y	1.256
112	5	PCB-133	NotFnd	*	*	*	n	y	1.179
113	5	PCB-165	NotFnd	*	*	*	n	n	1.601
114	5	PCB-146	NotFnd	*	*	*	n	y	1.369
115	5	PCB-161	39:59	3.686e+02	3.206e+02	1.15	y	n	1.585
116	5	PCB-153/168	40:35	3.397e+03	2.735e+03	1.24	y	y	1.522
117	5	PCB-141	40:47	6.309e+02	4.801e+02	1.31	y	y	1.231
118	5	PCB-130	41:11	7.809e+01	5.362e+01	1.46	n	n	1.062
119	5	PCB-137	NotFnd	*	*	*	n	y	1.253
120	5	PCB-164	41:31	1.540e+02	1.398e+02	1.10	y	n	1.532
121	5	PCB-129/138/163	41:50	2.193e+03	1.907e+03	1.15	y	n	1.271
122	5	PCB-160	NotFnd	*	*	*	n	n	1.658
123	5	PCB-158	42:13	2.982e+02	2.145e+02	1.39	y	n	1.671
124	5	PCB-128/166	43:05	2.067e+02	1.988e+02	1.04	n	y	1.335
125	6	PCB-159	44:02	3.256e+01	3.712e+01	0.88	n	n	1.099
126	6	PCB-162	NotFnd	*	*	*	n	y	1.168
127	6	PCB-167	44:51	4.158e+01	3.308e+01	1.26	y	n	1.008
128	6	PCB-156/157	45:58	9.524e+01	7.632e+01	1.25	y	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	39:34	6.792e+02	6.783e+02	1.00	y	y	1.340
132	5	PCB-184	NotFnd	*	*	*	n	n	1.470
133	5	PCB-176	40:27	1.875e+02	1.714e+02	1.09	y	n	1.288
134	5	PCB-186	NotFnd	*	*	*	n	n	1.331
135	5	PCB-178	42:17	1.573e+02	1.534e+02	1.03	y	n	0.907
136	5	PCB-175	NotFnd	*	*	*	n	y	0.984
137	5	PCB-187	43:11	9.793e+02	9.755e+02	1.00	y	n	1.091
138	5	PCB-182	NotFnd	*	*	*	n	n	0.970
139	6	PCB-183	43:48	3.233e+02	3.450e+02	0.94	y	y	0.821
140	6	PCB-185	43:53	8.174e+01	8.867e+01	0.92	y	y	0.738
141	6	PCB-174	44:02	3.813e+02	4.014e+02	0.95	y	y	0.700
142	6	PCB-177	44:28	1.926e+02	1.796e+02	1.07	y	n	0.678
143	6	PCB-181	NotFnd	*	*	*	n	n	0.771
144	6	PCB-171/173	45:06	9.327e+01	7.440e+01	1.25	n	n	0.667
145	6	PCB-172	46:43	3.315e+01	4.590e+01	0.72	n	n	0.645
146	6	PCB-192	NotFnd	*	*	*	n	n	0.895
147	6	PCB-180/193	47:23	6.859e+02	6.944e+02	0.99	y	n	0.816
148	6	PCB-191	NotFnd	*	*	*	n	n	0.869
149	6	PCB-170	48:38	1.368e+02	1.298e+02	1.05	y	n	0.611
150	6	PCB-190	49:10	2.603e+01	5.320e+01	0.49	n	n	0.815
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	44:36	1.046e+02	9.022e+01	1.16	n	y	0.863
153	6	PCB-201	45:31	6.316e+01	6.799e+01	0.93	y	y	1.228
154	6	PCB-204	NotFnd	*	*	*	n	n	1.204
155	6	PCB-197	46:27	1.981e+01	1.760e+01	1.13	n	y	1.356
156	6	PCB-200	46:31	3.192e+01	3.483e+01	0.92	y	y	1.166
157	6	PCB-198/199	49:21	1.124e+02	1.345e+02	0.84	y	y	0.861
158	6	PCB-196	49:59	5.733e+01	4.780e+01	1.20	n	y	0.838
159	6	PCB-203	50:11	6.531e+01	7.714e+01	0.85	y	y	0.974
160	6	PCB-195	NotFnd	*	*	*	n	y	0.777
161	6	PCB-194	53:48	2.965e+01	4.960e+01	0.60	n	y	0.766
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	51:16	1.095e+02	1.341e+02	0.82	y	y	0.880
164	6	PCB-207	52:09	2.535e+01	2.629e+01	0.96	n	y	1.032

165	7	PCB-206	56:03	4.900e+01	5.742e+01	0.85	y	n	0.931
166	7	PCB-209	57:37	2.937e+02	2.616e+02	1.12	y	n	0.894
167	1	PCB-1L	13:18	2.139e+03	7.166e+02	2.99	y	n	1.220
168	1	PCB-3L	15:34	2.314e+03	8.273e+02	2.80	y	n	1.173
169	1	PCB-4L	15:48	1.037e+03	6.544e+02	1.58	y	n	0.803
170	2	PCB-15L	21:53	1.742e+03	1.124e+03	1.55	y	n	0.962
171	2	PCB-19L	19:01	9.434e+02	8.418e+02	1.12	y	n	0.636
172	3	PCB-37L	29:01	1.163e+03	1.138e+03	1.02	y	y	1.144
173	2	PCB-54L	22:09	7.287e+02	9.380e+02	0.78	y	n	1.140
174	4	PCB-81L	35:49	8.777e+02	1.053e+03	0.83	y	y	0.947
175	4	PCB-77L	36:23	8.875e+02	1.036e+03	0.86	y	y	0.949
176	3	PCB-104L	27:45	1.058e+03	6.453e+02	1.64	y	n	1.397
177	5	PCB-123L	38:22	1.131e+03	7.336e+02	1.54	y	y	1.029
178	5	PCB-118L	38:42	1.264e+03	6.998e+02	1.81	n	y	1.077
179	5	PCB-114L	39:14	1.261e+03	7.360e+02	1.71	y	y	1.075
180	5	PCB-105L	39:52	1.120e+03	7.304e+02	1.53	y	y	1.013
181	5	PCB-126L	42:57	1.181e+03	6.848e+02	1.72	y	y	0.898
182	4	PCB-155L	33:29	8.777e+02	6.858e+02	1.28	y	y	1.637
183	6	PCB-167L	44:49	8.034e+02	6.633e+02	1.21	y	y	0.882
184	6	PCB-156/157L	45:58	1.654e+03	1.181e+03	1.40	y	n	0.818
185	6	PCB-169L	49:13	7.583e+02	6.071e+02	1.25	y	y	0.716
186	5	PCB-188L	39:12	8.652e+02	8.158e+02	1.06	y	n	2.358
187	6	PCB-189L	51:44	6.466e+02	6.568e+02	0.98	y	n	1.307
188	6	PCB-202L	44:34	7.166e+02	7.636e+02	0.94	y	n	1.804
189	6	PCB-205L	54:18	5.433e+02	5.923e+02	0.92	y	n	1.363
190	6	PCB-208L	51:13	4.713e+02	6.000e+02	0.79	y	n	1.337
191	7	PCB-206L	56:02	4.800e+02	5.802e+02	0.83	y	n	0.998
192	7	PCB-209L	57:36	6.208e+02	5.317e+02	1.17	y	n	1.563
193	3	PCB-28L	24:57	1.682e+03	1.410e+03	1.19	y	y	1.387
194	4	PCB-111L	36:25	1.124e+03	7.064e+02	1.59	y	y	1.238
195	5	PCB-178L	42:15	7.010e+02	6.031e+02	1.16	y	y	0.953
196	2	PCB-9L	17:51	2.446e+03	1.593e+03	1.54	y	n	-
197	3	PCB-52L	26:47	1.226e+03	1.504e+03	0.82	y	y	-
198	4	PCB-101L	33:43	1.301e+03	7.999e+02	1.63	y	n	-
199	5	PCB-138L	41:48	1.212e+03	9.930e+02	1.22	y	y	-
200	6	PCB-194L	53:48	5.929e+02	6.749e+02	0.88	y	n	-

-- Sample Calculation--

$$\text{PCB-209} = \frac{(2.937e{+}02 + 2.616e{+}02) \times 10000\ pg \times 1}{(6.208e{+}02 + 5.317e{+}02) \times (0.5\ \cancel{mL}) \times (1L\ \cancel{/\ 1000\ mL}) \times 0.8938} = 10800$$

AG
11/19/11

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sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4CS-CS2-PCBs

Run #3 Filename U142095#1 Samp: 1 Inj: 1 Acquired: 12-NOV-11 09:34:39
Processed: 15-NOV-11 17:22:12 Sample ID: E1101017-005

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:43	1.289e+02	1.057e+02	1.22	no	1.100	yes
2	70L	PCB-70L	31:37	1.008e+03	1.235e+03	0.82	yes	1.329	no
3	15L	PCB-15L	21:53	1.742e+03	1.124e+03	1.55	yes		no
4	81L	PCB-81L	35:49	7.961e+02	9.266e+02	0.86	yes		no

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	1.94e+04	1.84e+03	1.1e+01	1.33e+04	1.82e+03	7.3e+00
2	PCB-70L	1.42e+05	6.62e+03	2.1e+01	1.65e+05	2.22e+03	7.4e+01
3	PCB-15L	2.48e+05	1.84e+03	1.3e+02	1.53e+05	1.82e+03	8.4e+01
4	PCB-81L	1.32e+05	5.48e+03	2.4e+01	1.51e+05	1.65e+03	9.2e+01

----Sample EDL Calculation----

8.269e+01 672

$$\text{PCB-8L} = \frac{(1.29e+02 + \cancel{1.06e+02}) \times 10000\ pg \quad 1}{(1.74e+03 + 1.12e+03) \times 1.0\ \cancel{L} \times 1.100} = \cancel{740}\ pg \quad \cancel{pg/L}$$

$$A2 = \frac{A1}{1.56} = 8.269e+01$$

11/19/11

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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4CS-CS2-PCBs

Run #11 Filename U142095#1 Samp: 1 Inj: 1 Acquired: 12-NOV-11 09:34:39

Processed: 15-NOV-11 15:42:59 LAB. ID: E1101017-005

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	1.78e+05	1.51e+03	1.2e+02	5.39e+04	1.84e+03	2.9e+01
2	PCB-2	2.82e+04	1.51e+03	1.9e+01	9.76e+03	1.84e+03	5.3e+00
3	PCB-3	1.31e+05	1.51e+03	8.7e+01	4.10e+04	1.84e+03	2.2e+01
4	PCB-4	8.03e+05	5.24e+03	1.5e+02	5.51e+05	1.29e+05	4.3e+00
5	PCB-10	*	5.24e+03	*	*	1.29e+05	*
6	PCB-9	*	4.48e+03	*	*	4.42e+04	*
7	PCB-7	*	4.48e+03	*	*	4.42e+04	*
8	PCB-6	5.36e+05	4.48e+03	1.2e+02	3.92e+05	4.42e+04	8.9e+00
9	PCB-5	*	4.48e+03	*	*	4.42e+04	*
10	PCB-8	3.55e+06	4.48e+03	7.9e+02	2.34e+06	4.42e+04	5.3e+01
11	PCB-14	*	4.48e+03	*	*	4.42e+04	*
12	PCB-11	1.02e+06	4.48e+03	2.3e+02	6.74e+05	4.42e+04	1.5e+01
13	PCB-12/13	*	4.48e+03	*	*	4.42e+04	*
14	PCB-15	1.48e+06	4.48e+03	3.3e+02	9.87e+05	4.42e+04	2.2e+01
15	PCB-19	1.84e+05	1.08e+04	1.7e+01	1.75e+05	1.24e+03	1.4e+02
16	PCB-18/30	1.12e+06	1.08e+04	1.0e+02	1.11e+06	1.24e+03	8.9e+02
17	PCB-17	1.02e+06	1.08e+04	9.4e+01	9.79e+05	1.24e+03	7.9e+02
18	PCB-27	2.43e+05	1.08e+04	2.3e+01	2.33e+05	1.24e+03	1.9e+02
19	PCB-24	*	1.08e+04	*	*	1.24e+03	*
20	PCB-16	8.95e+05	1.08e+04	8.3e+01	9.28e+05	1.24e+03	7.5e+02
21	PCB-32	8.74e+05	1.08e+04	8.1e+01	8.39e+05	1.24e+03	6.7e+02
22	PCB-34	*	6.66e+03	*	*	3.15e+03	*
23	PCB-23	*	6.66e+03	*	*	3.15e+03	*
24	PCB-26/29	7.35e+05	6.66e+03	1.1e+02	7.02e+05	3.15e+03	2.2e+02
25	PCB-25	3.86e+05	6.66e+03	5.8e+01	3.66e+05	3.15e+03	1.2e+02
26	PCB-31	3.82e+06	6.66e+03	5.7e+02	3.68e+06	3.15e+03	1.2e+03
27	PCB-20/28	4.21e+06	6.66e+03	6.3e+02	4.11e+06	3.15e+03	1.3e+03
28	PCB-21/33	2.33e+06	6.66e+03	3.5e+02	2.27e+06	3.15e+03	7.2e+02
29	PCB-22	1.42e+06	6.66e+03	2.1e+02	1.34e+06	3.15e+03	4.3e+02
30	PCB-36	*	6.66e+03	*	*	3.15e+03	*
31	PCB-39	*	6.66e+03	*	*	3.15e+03	*
32	PCB-38	*	6.66e+03	*	*	3.15e+03	*
33	PCB-35	*	6.66e+03	*	*	3.15e+03	*
34	PCB-37	5.16e+05	6.66e+03	7.7e+01	5.35e+05	3.15e+03	1.7e+02
35	PCB-54	*	1.39e+03	*	*	1.27e+03	*
36	PCB-50/53	2.21e+05	1.53e+03	1.4e+02	2.73e+05	2.01e+03	1.4e+02
37	PCB-45/51	2.53e+05	1.53e+03	1.7e+02	3.40e+05	2.01e+03	1.7e+02
38	PCB-46	8.83e+04	1.53e+03	5.8e+01	9.93e+04	2.01e+03	4.9e+01
39	PCB-52	1.08e+06	1.53e+03	7.1e+02	1.40e+06	2.01e+03	7.0e+02
40	PCB-43/73	*	1.53e+03	*	*	2.01e+03	*
41	PCB-49/69	6.10e+05	1.53e+03	4.0e+02	7.78e+05	2.01e+03	3.9e+02
42	PCB-48	3.01e+05	1.53e+03	2.0e+02	3.73e+05	2.01e+03	1.9e+02
43	PCB-44/47/65	8.01e+05	1.53e+03	5.2e+02	1.04e+06	2.01e+03	5.2e+02
44	PCB-59/62/75	1.32e+05	1.53e+03	8.6e+01	1.53e+05	2.01e+03	7.6e+01
45	PCB-42	2.13e+05	1.53e+03	1.4e+02	2.73e+05	2.01e+03	1.4e+02
46	PCB-40/41/71	3.73e+05	1.53e+03	2.4e+02	4.97e+05	2.01e+03	2.5e+02
47	PCB-64	4.74e+05	1.53e+03	3.1e+02	5.98e+05	2.01e+03	3.0e+02

Run #11 Filename U142095#1 Samp: 1 Acquired: 12-NOV-11 09:34:39

48	PCB-72	*	1.53e+03	*	*	2.01e+03	*
49	PCB-68	2.91e+04	1.53e+03	1.9e+01	3.28e+04	2.01e+03	1.6e+01
50	PCB-57	*	1.53e+03	*	*	2.01e+03	*
51	PCB-58	*	1.53e+03	*	*	2.01e+03	*
52	PCB-67	2.67e+04	1.53e+03	1.7e+01	3.89e+04	2.01e+03	1.9e+01
53	PCB-63	2.85e+04	1.53e+03	1.9e+01	3.07e+04	2.01e+03	1.5e+01
54	PCB-61/70/74/76	7.01e+05	1.53e+03	4.6e+02	9.26e+05	2.01e+03	4.6e+02
55	PCB-66	4.61e+05	1.53e+03	3.0e+02	5.91e+05	2.01e+03	2.9e+02
56	PCB-55	*	1.53e+03	*	*	2.01e+03	*
57	PCB-56	2.33e+05	2.14e+03	1.1e+02	2.94e+05	2.32e+03	1.3e+02
58	PCB-60	1.38e+05	2.14e+03	6.4e+01	1.86e+05	2.32e+03	8.0e+01
59	PCB-80	*	2.14e+03	*	*	2.32e+03	*
60	PCB-79	*	2.14e+03	*	*	2.32e+03	*
61	PCB-78	*	2.14e+03	*	*	2.32e+03	*
62	PCB-81	*	2.14e+03	*	*	2.32e+03	*
63	PCB-77	2.72e+04	2.14e+03	1.3e+01	3.05e+04	2.32e+03	1.3e+01
64	PCB-104	*	9.24e+02	*	*	9.76e+02	*
65	PCB-96	8.34e+03	9.24e+02	9.0e+00	6.38e+03	9.76e+02	6.5e+00
66	PCB-103	4.05e+03	9.24e+02	4.4e+00	2.49e+03	9.76e+02	2.6e+00
67	PCB-94	*	9.24e+02	*	*	9.76e+02	*
68	PCB-95	4.03e+05	9.24e+02	4.4e+02	2.65e+05	9.76e+02	2.7e+02
69	PCB-93/100	*	9.24e+02	*	*	9.76e+02	*
70	PCB-98/102	1.63e+04	9.24e+02	1.8e+01	1.21e+04	9.76e+02	1.2e+01
71	PCB-88/91	5.59e+04	9.24e+02	6.0e+01	3.57e+04	9.76e+02	3.7e+01
72	PCB-84	9.44e+04	9.24e+02	1.0e+02	5.61e+04	9.76e+02	5.7e+01
73	PCB-89	5.43e+03	9.24e+02	5.9e+00	5.29e+03	9.76e+02	5.4e+00
74	PCB-121	*	8.80e+02	*	*	1.20e+03	*
75	PCB-92	7.78e+04	8.80e+02	8.8e+01	4.66e+04	1.20e+03	3.9e+01
76	PCB-90/101/113	5.74e+05	8.80e+02	6.5e+02	3.60e+05	1.20e+03	3.0e+02
77	PCB-83/99	1.49e+05	8.80e+02	1.7e+02	9.82e+04	1.20e+03	8.2e+01
78	PCB-112	*	8.80e+02	*	*	1.20e+03	*
79	CB-86/87/97/109/119/125	1.66e+05	8.80e+02	1.9e+02	1.03e+05	1.20e+03	8.5e+01
80	PCB-117	2.73e+04	8.80e+02	3.1e+01	2.23e+04	1.20e+03	1.9e+01
81	PCB-85/116	1.05e+05	8.80e+02	1.2e+02	6.96e+04	1.20e+03	5.8e+01
82	PCB-110/115	4.69e+05	8.80e+02	5.3e+02	3.01e+05	1.20e+03	2.5e+02
83	PCB-82	2.89e+04	8.80e+02	3.3e+01	2.05e+04	1.20e+03	1.7e+01
84	PCB-111	*	8.80e+02	*	*	1.20e+03	*
85	PCB-120	*	8.80e+02	*	*	1.20e+03	*
86	PCB-108/124	*	3.58e+03	*	*	3.63e+03	*
87	PCB-107	1.73e+04	3.58e+03	4.8e+00	1.24e+04	3.63e+03	3.4e+00
88	PCB-123	*	3.58e+03	*	*	3.63e+03	*
89	PCB-106	2.83e+04	3.58e+03	7.9e+00	2.16e+04	3.63e+03	5.9e+00
90	PCB-118	2.96e+05	3.58e+03	8.3e+01	1.70e+05	3.63e+03	4.7e+01
91	PCB-122	*	3.58e+03	*	*	3.63e+03	*
92	PCB-114	*	3.58e+03	*	*	3.63e+03	*
93	PCB-105	8.19e+04	3.58e+03	2.3e+01	5.53e+04	3.63e+03	1.5e+01
94	PCB-127	*	3.58e+03	*	*	3.63e+03	*
95	PCB-126	*	3.58e+03	*	*	3.63e+03	*
96	PCB-155	*	1.43e+03	*	*	9.56e+02	*
97	PCB-152	*	1.43e+03	*	*	9.56e+02	*
98	PCB-150	*	1.43e+03	*	*	9.56e+02	*
99	PCB-136	1.13e+05	1.43e+03	7.9e+01	8.79e+04	9.56e+02	9.2e+01
100	PCB-145	*	1.43e+03	*	*	9.56e+02	*
101	PCB-148	*	1.43e+03	*	*	9.56e+02	*
102	PCB-135/151	1.74e+05	1.43e+03	1.2e+02	1.46e+05	9.56e+02	1.5e+02
103	PCB-154	*	1.43e+03	*	*	9.56e+02	*
104	PCB-144	3.17e+04	1.43e+03	2.2e+01	3.11e+04	9.56e+02	3.3e+01

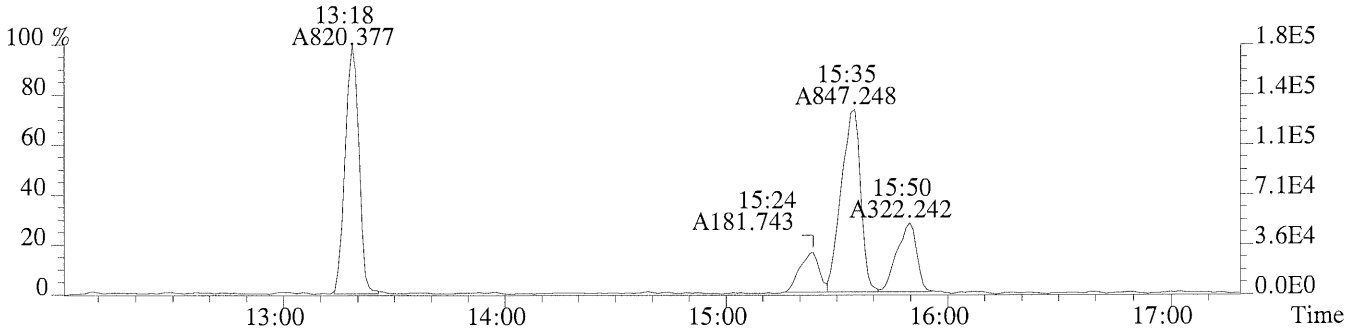
Run #11 Filename U142095#1 Samp: 1 Acquired: 12-NOV-11 09:34:39

105	PCB-147/149	5.19e+05	2.02e+03	2.6e+02	4.11e+05	1.80e+03	2.3e+02
106	PCB-134	2.05e+04	2.02e+03	1.0e+01	1.56e+04	1.80e+03	8.7e+00
107	PCB-143	*	2.02e+03	*	*	1.80e+03	*
108	PCB-139/140	*	2.02e+03	*	*	1.80e+03	*
109	PCB-131	*	2.02e+03	*	*	1.80e+03	*
110	PCB-142	*	2.02e+03	*	*	1.80e+03	*
111	PCB-132	1.22e+05	2.02e+03	6.1e+01	9.66e+04	1.80e+03	5.4e+01
112	PCB-133	*	2.02e+03	*	*	1.80e+03	*
113	PCB-165	*	2.02e+03	*	*	1.80e+03	*
114	PCB-146	*	2.02e+03	*	*	1.80e+03	*
115	PCB-161	6.37e+04	2.02e+03	3.2e+01	5.66e+04	1.80e+03	3.1e+01
116	PCB-153/168	5.11e+05	2.02e+03	2.5e+02	4.05e+05	1.80e+03	2.3e+02
117	PCB-141	1.04e+05	2.02e+03	5.2e+01	8.12e+04	1.80e+03	4.5e+01
118	PCB-130	1.14e+04	2.02e+03	5.6e+00	7.64e+03	1.80e+03	4.2e+00
119	PCB-137	*	2.02e+03	*	*	1.80e+03	*
120	PCB-164	2.60e+04	2.02e+03	1.3e+01	2.61e+04	1.80e+03	1.5e+01
121	PCB-129/138/163	3.41e+05	2.02e+03	1.7e+02	2.80e+05	1.80e+03	1.6e+02
122	PCB-160	*	2.02e+03	*	*	1.80e+03	*
123	PCB-158	4.71e+04	2.02e+03	2.3e+01	3.59e+04	1.80e+03	2.0e+01
124	PCB-128/166	2.58e+04	2.02e+03	1.3e+01	2.25e+04	1.80e+03	1.3e+01
125	PCB-159	6.96e+03	1.62e+03	4.3e+00	7.91e+03	1.39e+03	5.7e+00
126	PCB-162	*	1.62e+03	*	*	1.39e+03	*
127	PCB-167	7.87e+03	1.62e+03	4.9e+00	6.55e+03	1.39e+03	4.7e+00
128	PCB-156/157	1.74e+04	1.62e+03	1.1e+01	1.32e+04	1.39e+03	9.5e+00
129	PCB-169	*	1.62e+03	*	*	1.39e+03	*
130	PCB-188	*	1.08e+03	*	*	8.32e+02	*
131	PCB-179	1.01e+05	1.08e+03	9.3e+01	1.01e+05	8.32e+02	1.2e+02
132	PCB-184	*	1.08e+03	*	*	8.32e+02	*
133	PCB-176	3.25e+04	1.08e+03	3.0e+01	2.88e+04	8.32e+02	3.5e+01
134	PCB-186	*	1.08e+03	*	*	8.32e+02	*
135	PCB-178	2.61e+04	1.08e+03	2.4e+01	2.57e+04	8.32e+02	3.1e+01
136	PCB-175	*	1.08e+03	*	*	8.32e+02	*
137	PCB-187	1.53e+05	1.08e+03	1.4e+02	1.45e+05	8.32e+02	1.7e+02
138	PCB-182	*	1.08e+03	*	*	8.32e+02	*
139	PCB-183	7.04e+04	1.65e+03	4.3e+01	7.23e+04	1.09e+03	6.6e+01
140	PCB-185	2.57e+04	1.65e+03	1.6e+01	2.47e+04	1.09e+03	2.3e+01
141	PCB-174	7.84e+04	1.65e+03	4.8e+01	7.99e+04	1.09e+03	7.3e+01
142	PCB-177	3.67e+04	1.65e+03	2.2e+01	3.63e+04	1.09e+03	3.3e+01
143	PCB-181	*	1.65e+03	*	*	1.09e+03	*
144	PCB-171/173	2.20e+04	1.65e+03	1.3e+01	1.36e+04	1.09e+03	1.2e+01
145	PCB-172	7.57e+03	1.65e+03	4.6e+00	9.19e+03	1.09e+03	8.4e+00
146	PCB-192	*	1.65e+03	*	*	1.09e+03	*
147	PCB-180/193	1.30e+05	1.65e+03	7.9e+01	1.37e+05	1.09e+03	1.3e+02
148	PCB-191	*	1.65e+03	*	*	1.09e+03	*
149	PCB-170	2.73e+04	1.65e+03	1.7e+01	2.54e+04	1.09e+03	2.3e+01
150	PCB-190	6.66e+03	1.65e+03	4.0e+00	1.06e+04	1.09e+03	9.7e+00
151	PCB-189	*	1.65e+03	*	*	1.09e+03	*
152	PCB-202	2.02e+04	8.96e+02	2.3e+01	1.89e+04	1.57e+03	1.2e+01
153	PCB-201	1.26e+04	8.96e+02	1.4e+01	1.26e+04	1.57e+03	8.0e+00
154	PCB-204	*	8.96e+02	*	*	1.57e+03	*
155	PCB-197	4.28e+03	8.96e+02	4.8e+00	4.99e+03	1.57e+03	3.2e+00
156	PCB-200	6.57e+03	8.96e+02	7.3e+00	7.48e+03	1.57e+03	4.8e+00
157	PCB-198/199	2.04e+04	8.96e+02	2.3e+01	2.53e+04	1.57e+03	1.6e+01
158	PCB-196	9.44e+03	8.96e+02	1.1e+01	9.16e+03	1.57e+03	5.8e+00
159	PCB-203	1.30e+04	8.96e+02	1.4e+01	1.41e+04	1.57e+03	9.0e+00
160	PCB-195	*	8.96e+02	*	*	1.57e+03	*
161	PCB-194	5.18e+03	8.96e+02	5.8e+00	9.91e+03	1.57e+03	6.3e+00
162	PCB-205	*	8.96e+02	*	*	1.57e+03	*

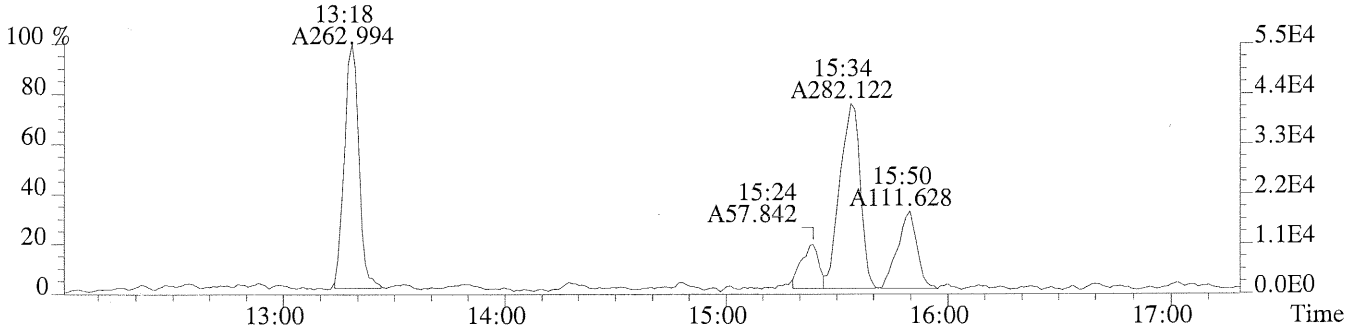
163	PCB-208	1.95e+04	1.08e+03	1.8e+01	2.63e+04	9.44e+02	2.8e+01
164	PCB-207	3.74e+03	1.08e+03	3.4e+00	6.17e+03	9.44e+02	6.5e+00
165	PCB-206	1.07e+04	7.76e+02	1.4e+01	1.14e+04	1.13e+03	1.0e+01
166	PCB-209	5.71e+04	1.15e+03	5.0e+01	4.68e+04	1.22e+03	3.8e+01
167	PCB-1L	4.66e+05	2.02e+03	2.3e+02	1.58e+05	7.63e+03	2.1e+01
168	PCB-3L	3.32e+05	2.02e+03	1.6e+02	1.17e+05	7.63e+03	1.5e+01
169	PCB-4L	1.65e+05	1.64e+03	1.0e+02	1.02e+05	1.54e+03	6.6e+01
170	PCB-15L	2.48e+05	1.84e+03	1.3e+02	1.53e+05	1.82e+03	8.4e+01
171	PCB-19L	1.33e+05	1.65e+04	8.1e+00	1.18e+05	1.68e+04	7.0e+00
172	PCB-37L	1.62e+05	2.38e+04	6.8e+00	1.65e+05	2.18e+04	7.6e+00
173	PCB-54L	9.59e+04	6.18e+03	1.6e+01	1.22e+05	2.72e+03	4.5e+01
174	PCB-81L	1.31e+05	5.48e+03	2.4e+01	1.51e+05	1.65e+03	9.1e+01
175	PCB-77L	1.26e+05	5.48e+03	2.3e+01	1.47e+05	1.65e+03	8.9e+01
176	PCB-104L	1.41e+05	1.59e+03	8.9e+01	9.14e+04	9.40e+02	9.7e+01
177	PCB-123L	1.65e+05	1.41e+03	1.2e+02	1.13e+05	2.22e+03	5.1e+01
178	PCB-118L	1.87e+05	1.41e+03	1.3e+02	1.08e+05	2.22e+03	4.9e+01
179	PCB-114L	1.93e+05	1.41e+03	1.4e+02	1.13e+05	2.22e+03	5.1e+01
180	PCB-105L	1.76e+05	1.41e+03	1.2e+02	1.10e+05	2.22e+03	5.0e+01
181	PCB-126L	1.82e+05	1.41e+03	1.3e+02	1.05e+05	2.22e+03	4.7e+01
182	PCB-155L	1.29e+05	7.36e+02	1.8e+02	9.70e+04	1.30e+03	7.4e+01
183	PCB-167L	1.47e+05	5.96e+02	2.5e+02	1.20e+05	9.00e+02	1.3e+02
184	PCB-156/157L	2.46e+05	5.96e+02	4.1e+02	1.75e+05	9.00e+02	1.9e+02
185	PCB-169L	1.44e+05	5.96e+02	2.4e+02	1.05e+05	9.00e+02	1.2e+02
186	PCB-188L	1.47e+05	1.69e+03	8.7e+01	1.35e+05	7.44e+02	1.8e+02
187	PCB-189L	1.25e+05	1.64e+03	7.6e+01	1.30e+05	1.13e+03	1.1e+02
188	PCB-202L	1.40e+05	9.04e+02	1.5e+02	1.44e+05	1.28e+03	1.1e+02
189	PCB-205L	1.12e+05	9.04e+02	1.2e+02	1.13e+05	1.28e+03	8.8e+01
190	PCB-208L	8.60e+04	1.38e+03	6.2e+01	1.19e+05	1.01e+03	1.2e+02
191	PCB-206L	8.37e+04	9.20e+02	9.1e+01	1.06e+05	8.76e+02	1.2e+02
192	PCB-209L	1.08e+05	9.84e+02	1.1e+02	9.28e+04	1.16e+03	8.0e+01
193	PCB-28L	2.22e+05	2.38e+04	9.3e+00	1.96e+05	2.18e+04	9.0e+00
194	PCB-111L	1.71e+05	8.76e+02	1.9e+02	1.04e+05	1.22e+03	8.5e+01
195	PCB-178L	1.06e+05	1.69e+03	6.3e+01	9.16e+04	7.44e+02	1.2e+02
196	PCB-9L	3.68e+05	1.84e+03	2.0e+02	2.33e+05	1.82e+03	1.3e+02
197	PCB-52L	1.56e+05	6.62e+03	2.4e+01	2.05e+05	2.22e+03	9.2e+01
198	PCB-101L	1.88e+05	8.76e+02	2.1e+02	1.08e+05	1.22e+03	8.9e+01
199	PCB-138L	1.84e+05	9.88e+02	1.9e+02	1.52e+05	1.14e+03	1.3e+02
200	PCB-194L	1.15e+05	9.04e+02	1.3e+02	1.36e+05	1.28e+03	1.1e+02

File:U142095 #1-341 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

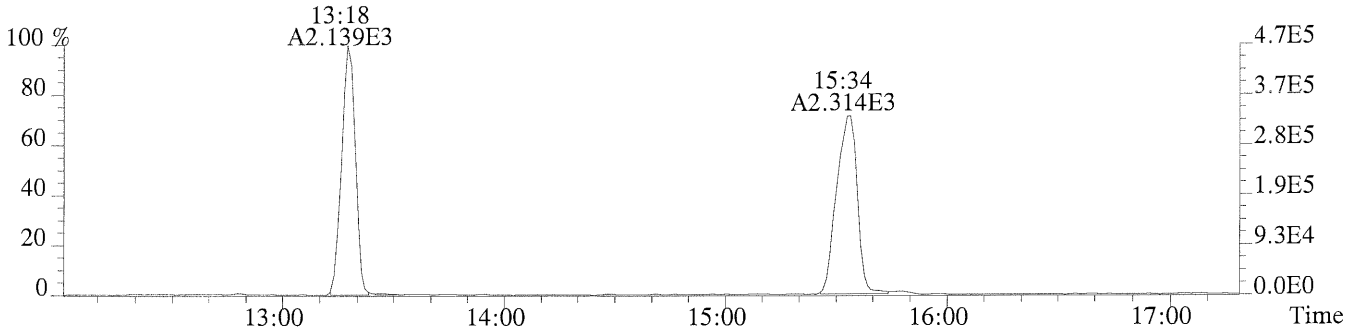
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1508.0,1.00%,F,T)



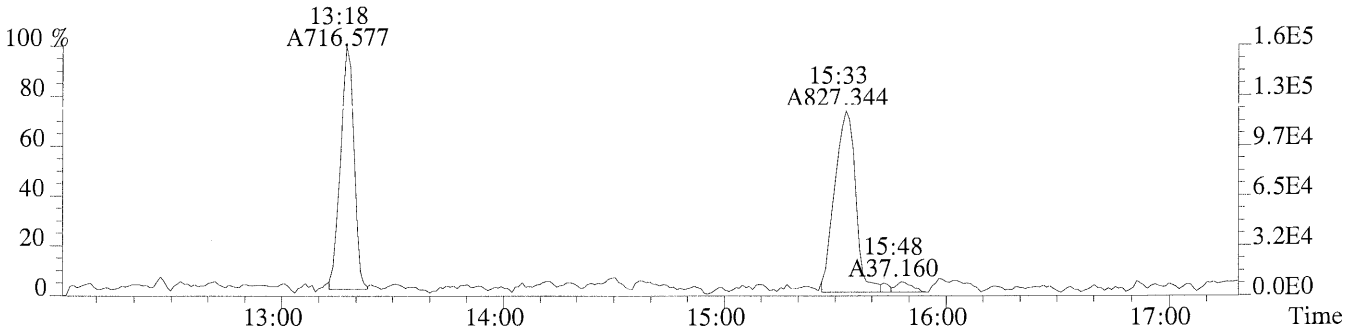
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1840.0,1.00%,F,T)



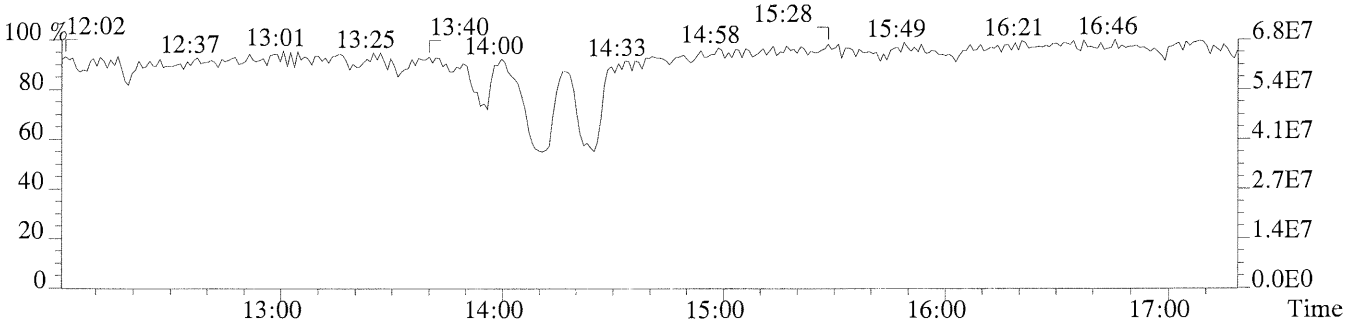
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2024.0,1.00%,F,T)



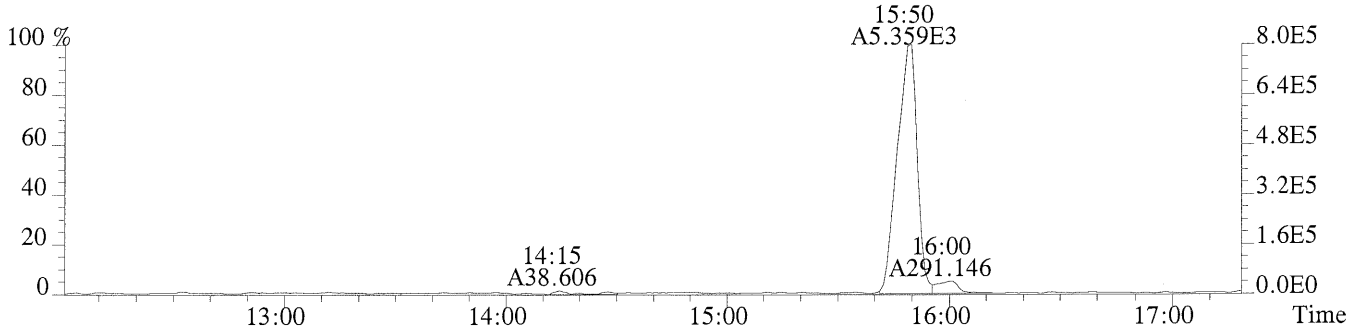
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7628.0,1.00%,F,T)



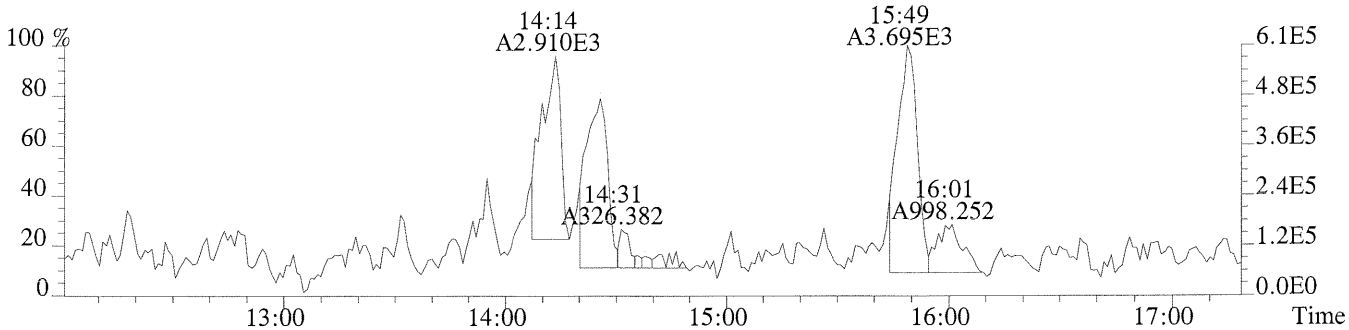
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



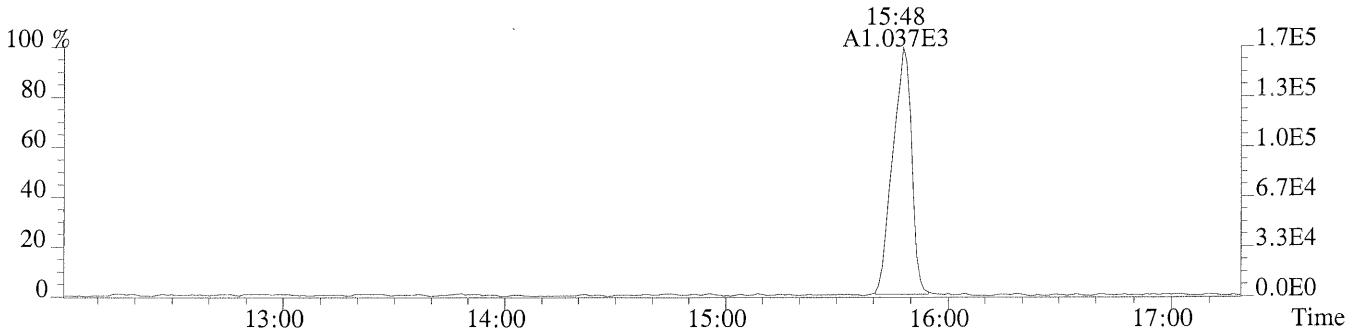
File:U142095 #1-341 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5244.0,1.00%,F,T)



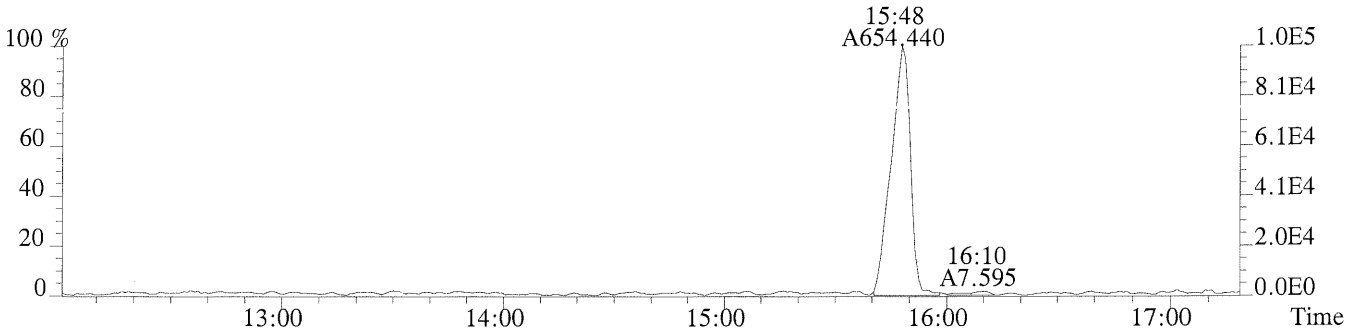
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,128980.0,1.00%,F,T)



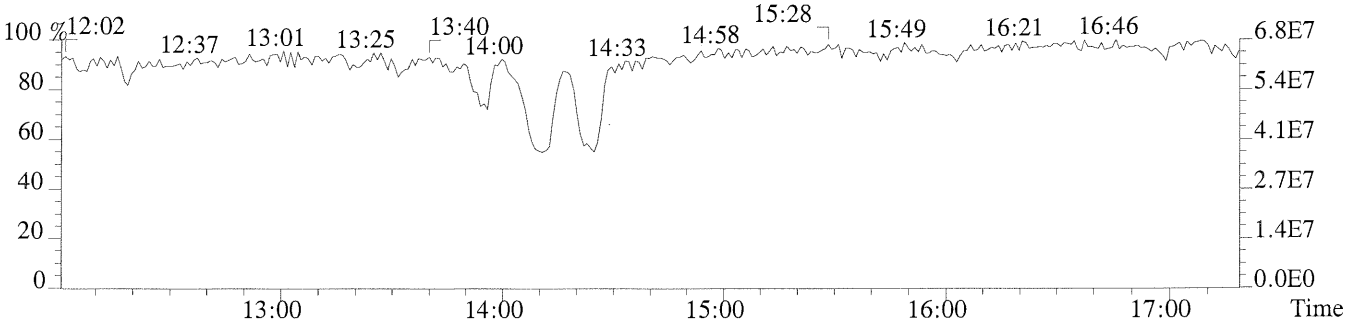
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1636.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1540.0,1.00%,F,T)

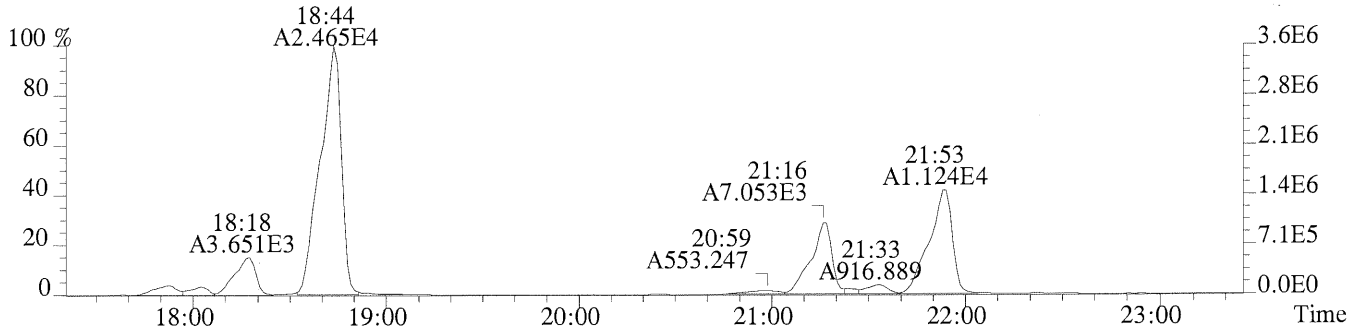


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

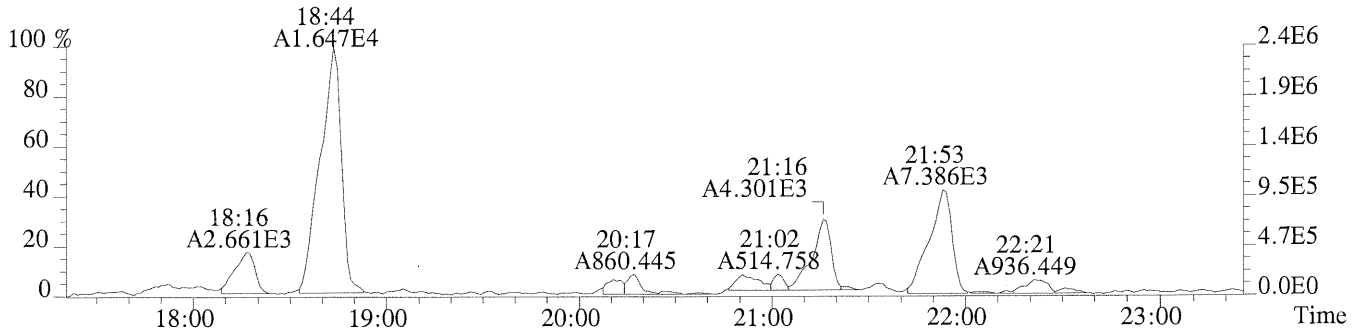


File:U142095 #1-336 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

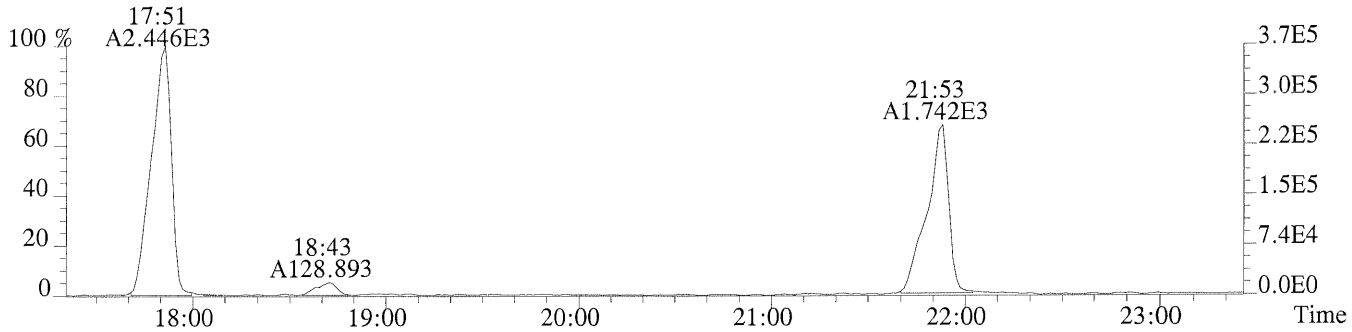
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4480.0,1.00%,F,T)



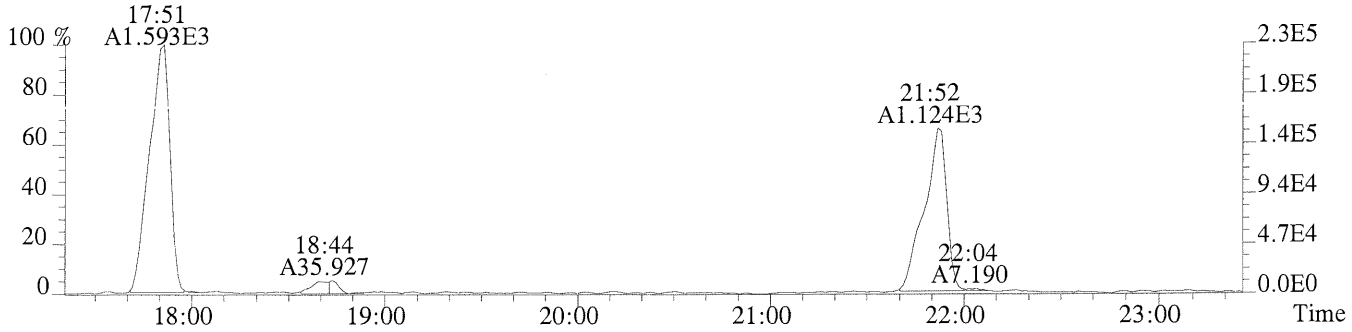
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,44196.0,1.00%,F,T)



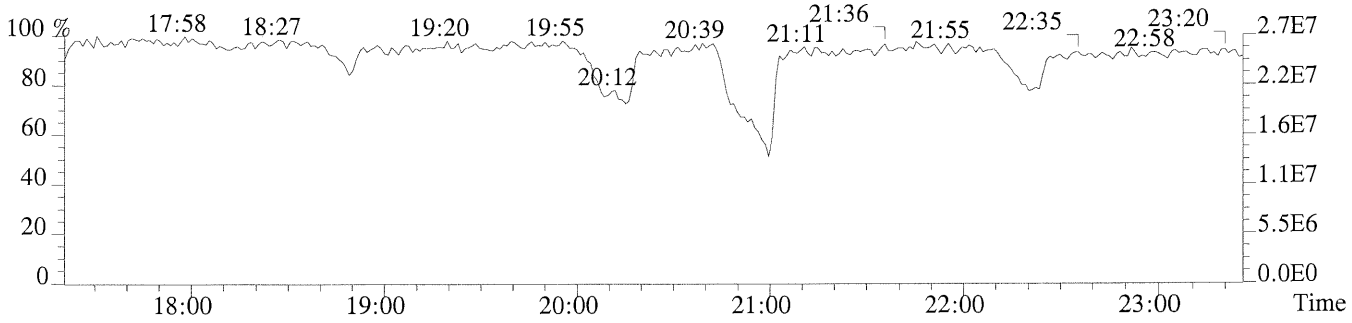
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1844.0,1.00%,F,T)



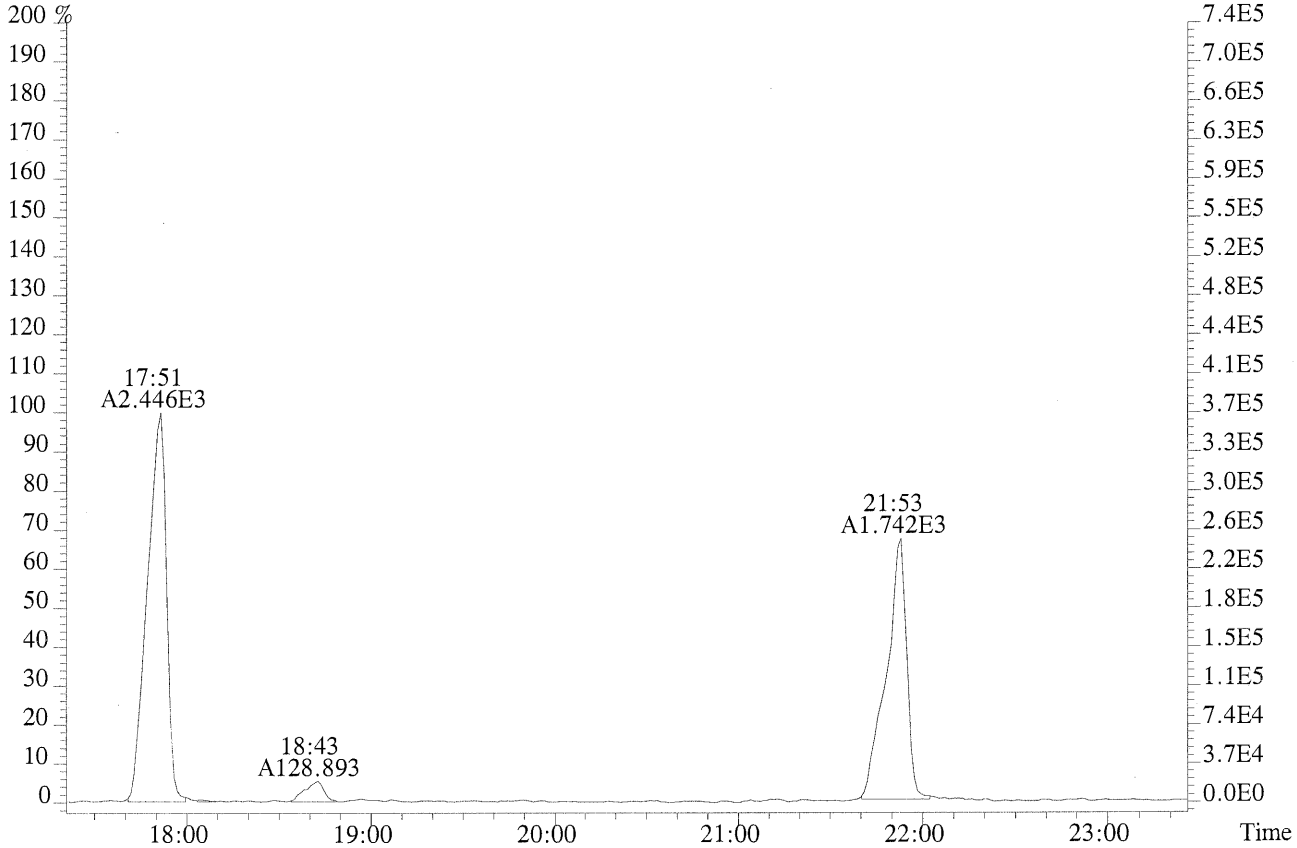
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1816.0,1.00%,F,T)



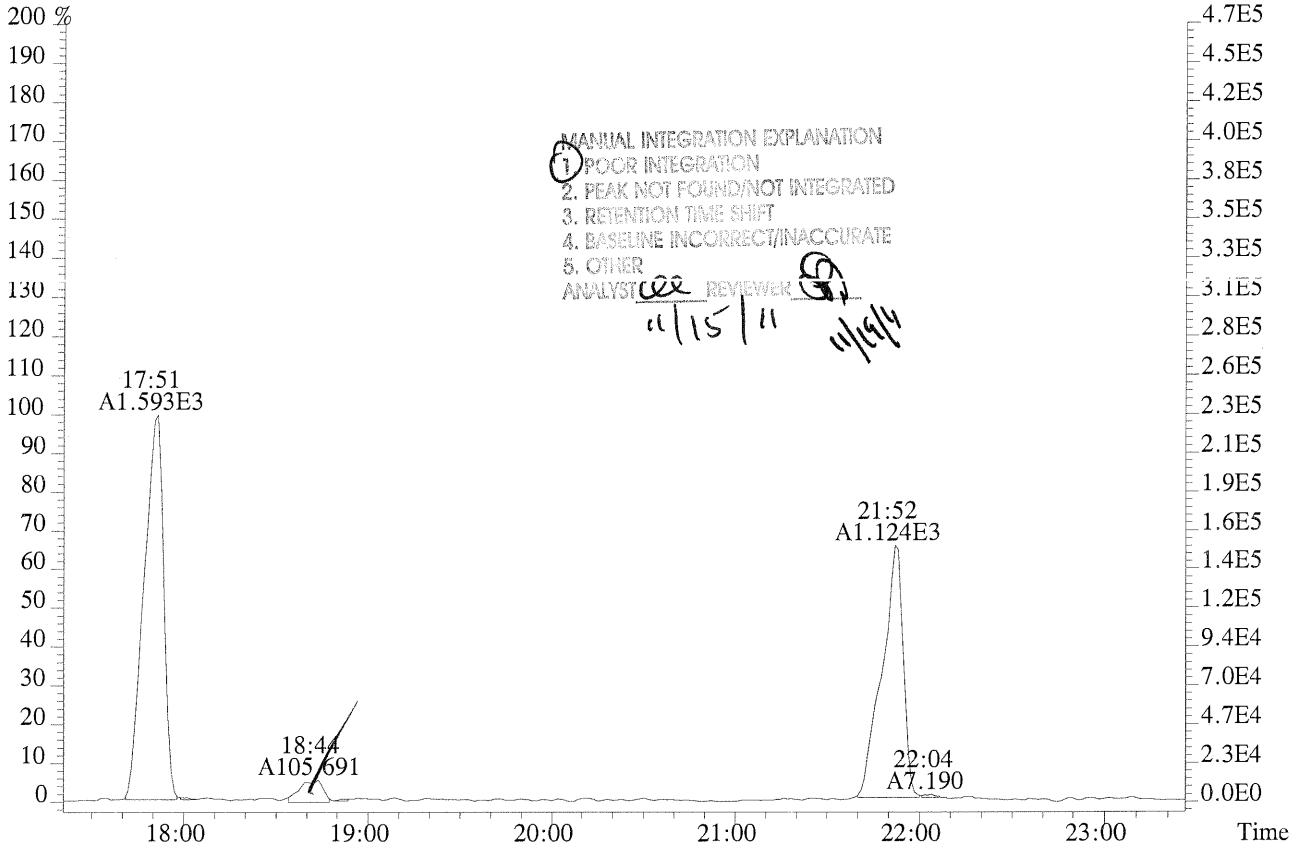
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



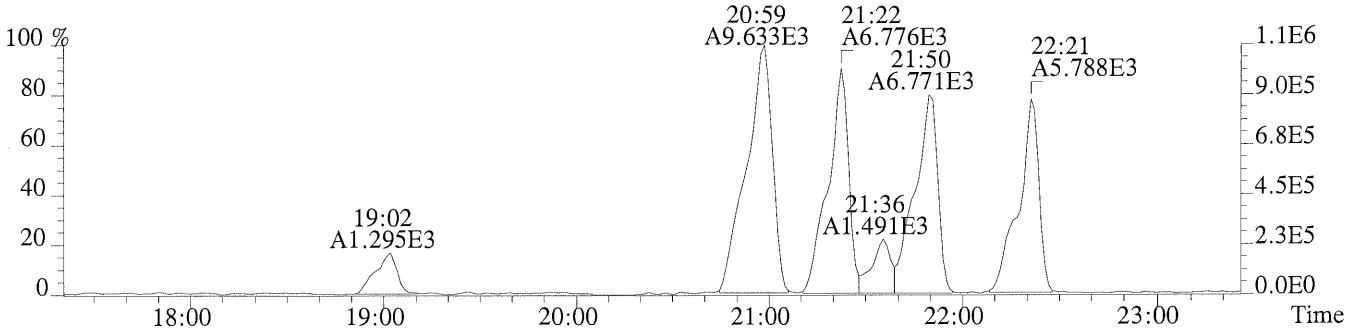
File:U142095 #1-336 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1844.0,1.00%,F,T)



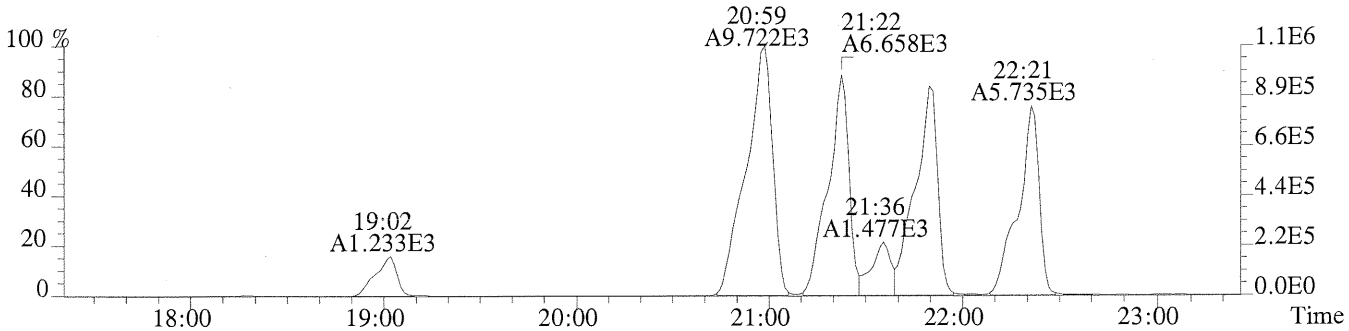
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1816.0,1.00%,F,T)



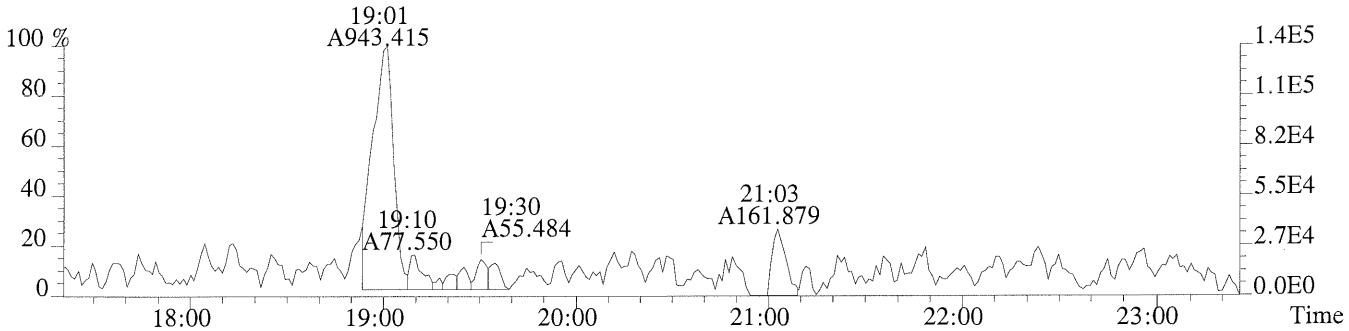
File:U142095 #1-336 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10776.0,1.00%,F,T)



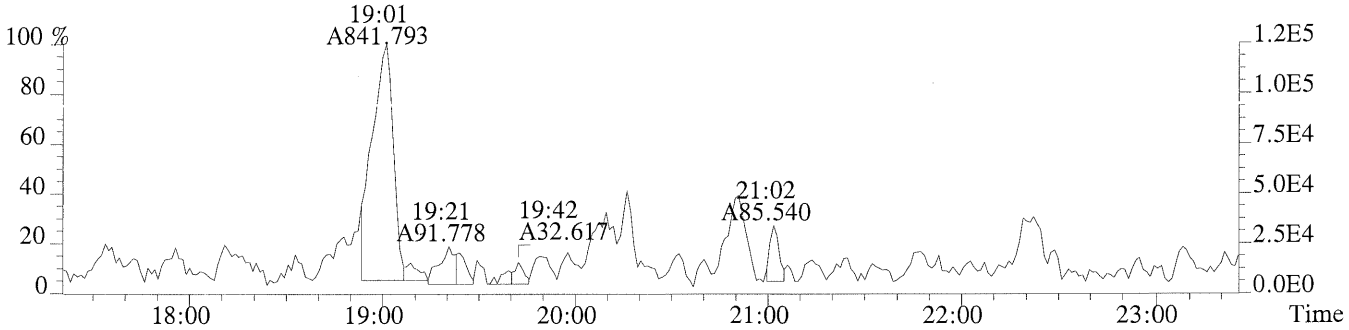
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)



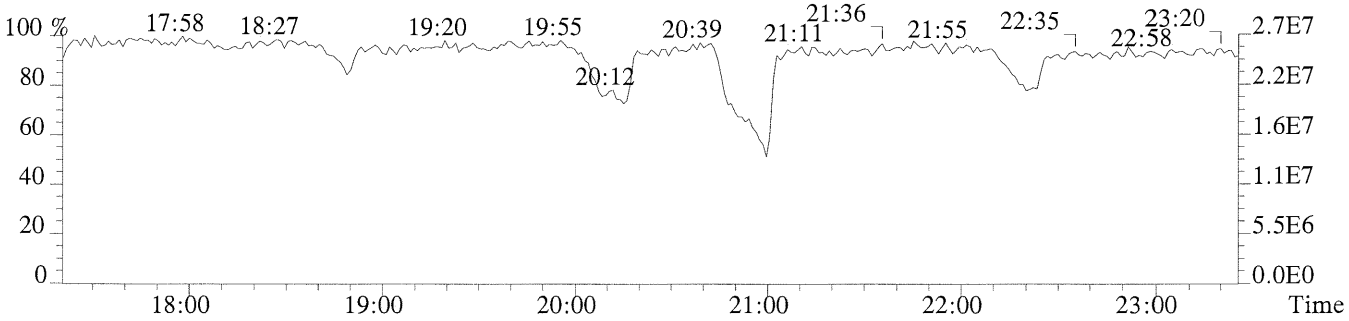
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16508.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16844.0,1.00%,F,T)

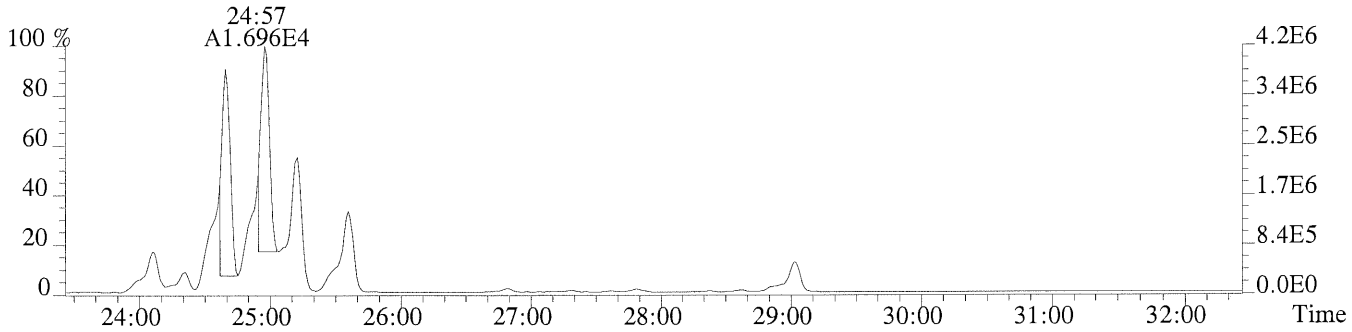


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

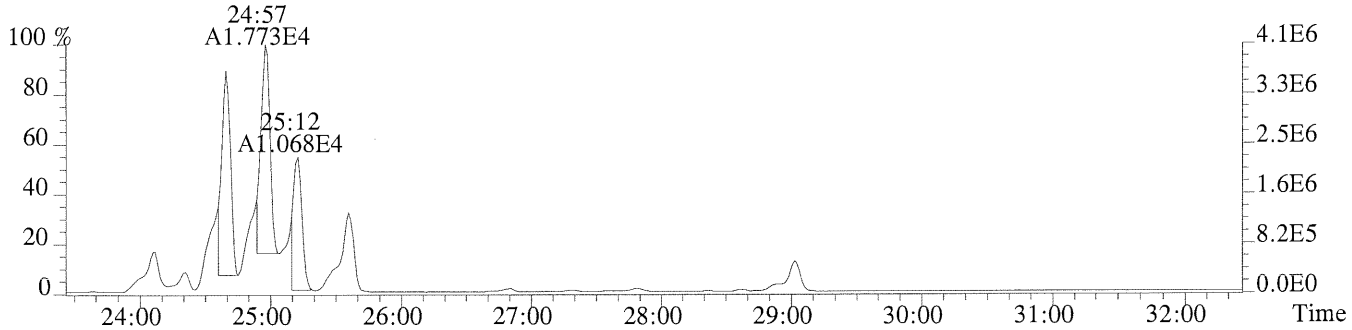


File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

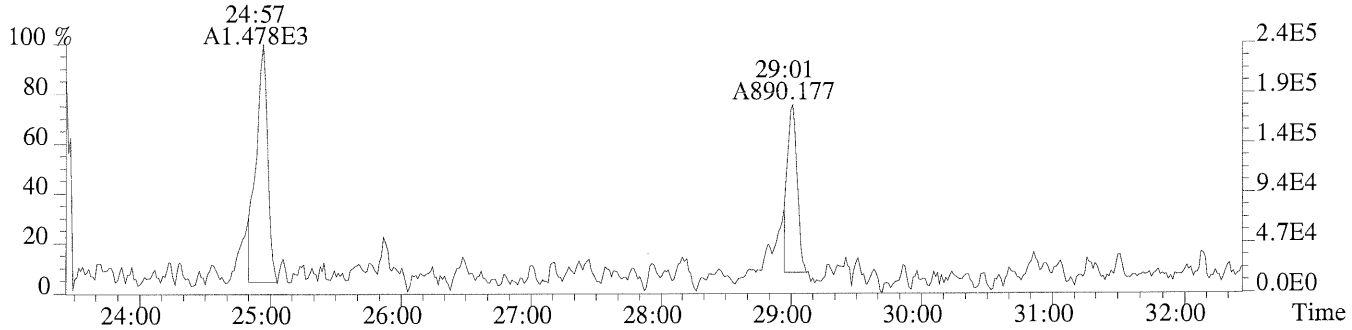
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868628.0,1.00%,F,T)



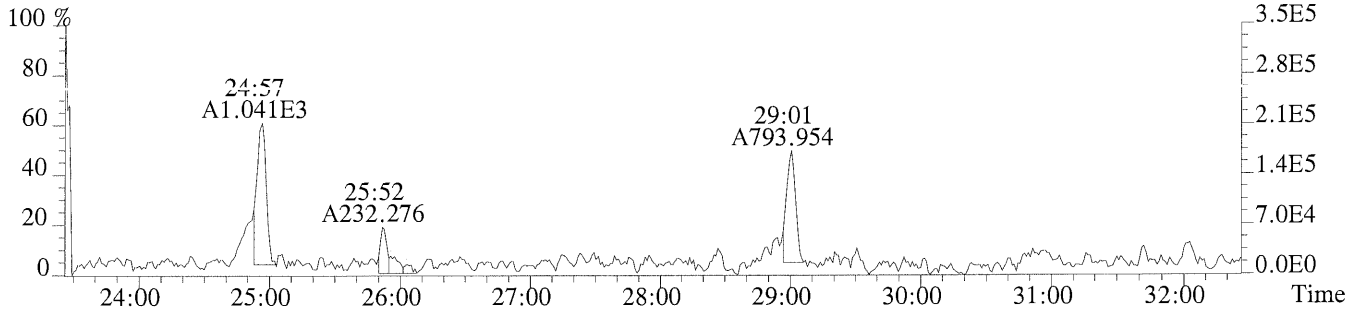
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,445980.0,1.00%,F,T)



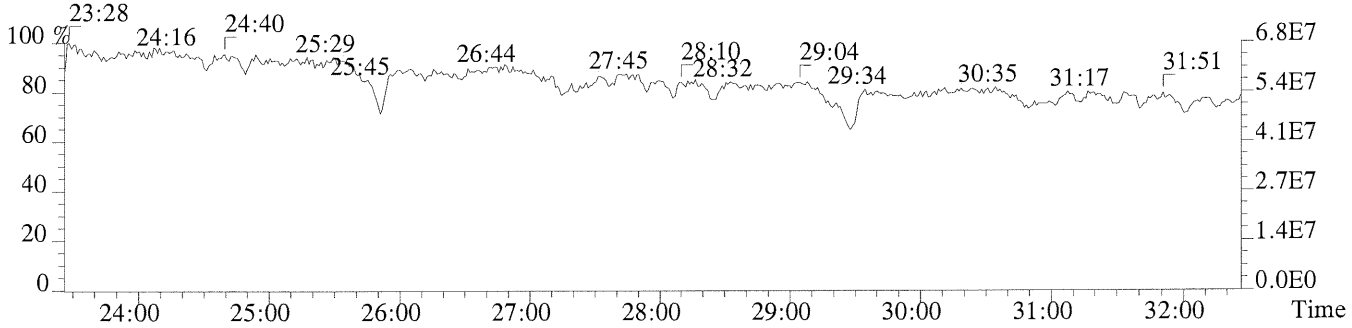
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23764.0,1.00%,F,T)



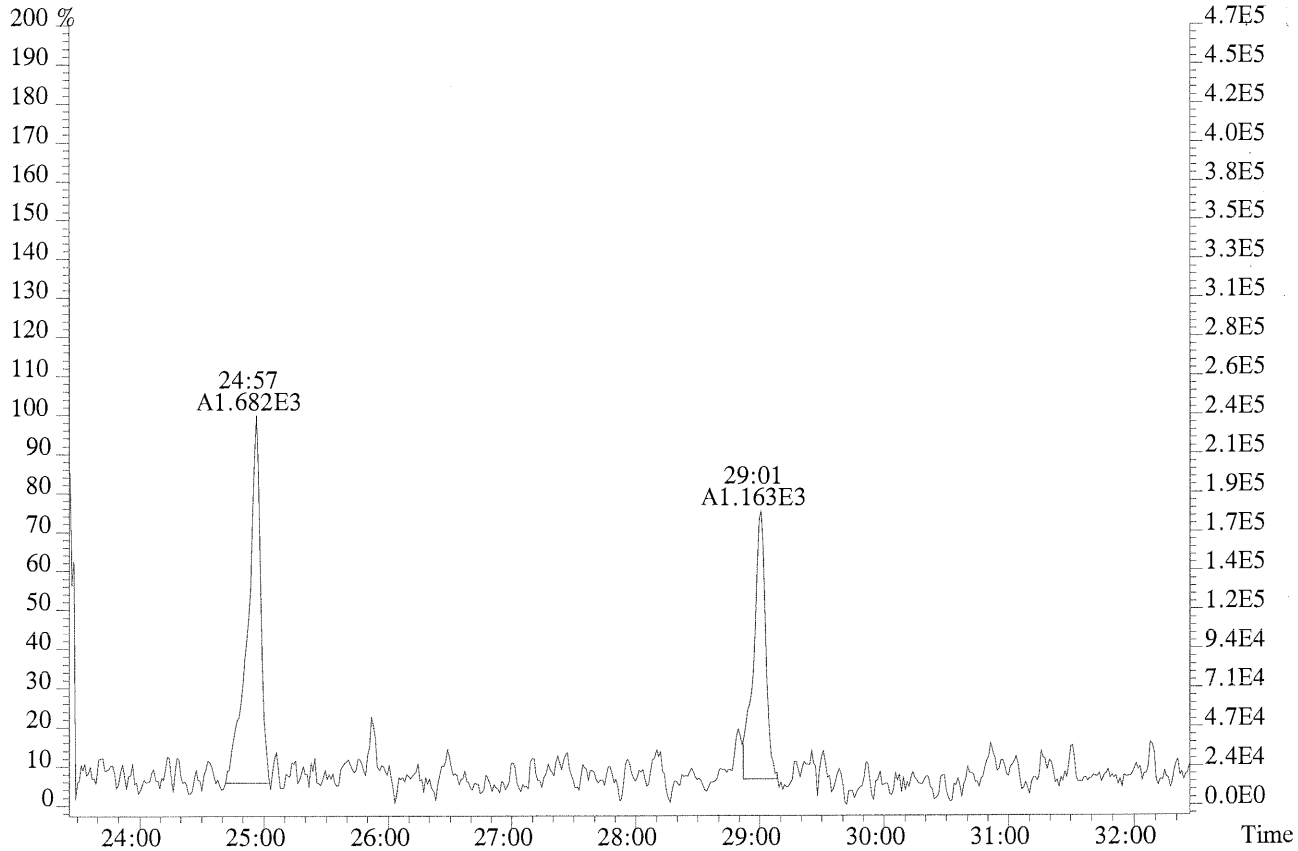
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,21752.0,1.00%,F,T)



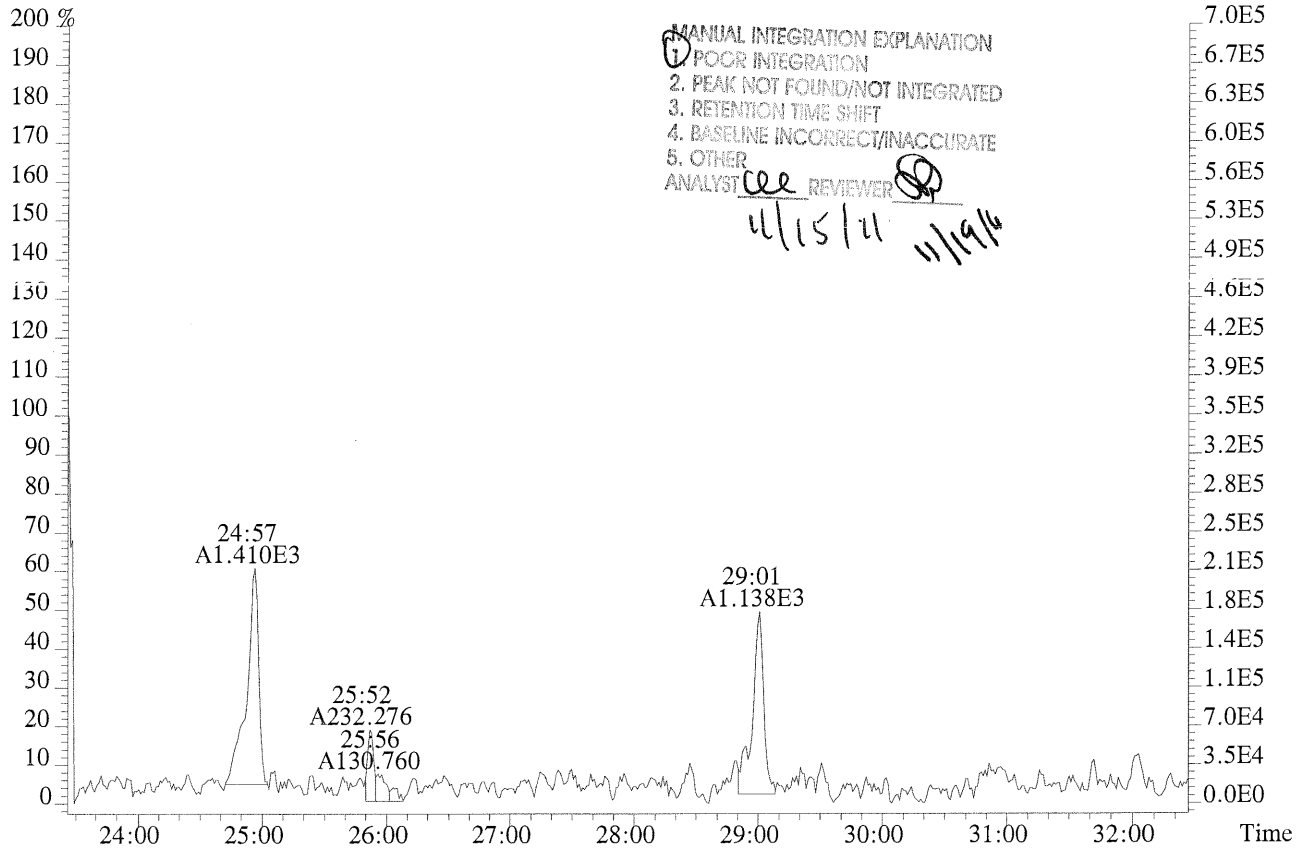
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



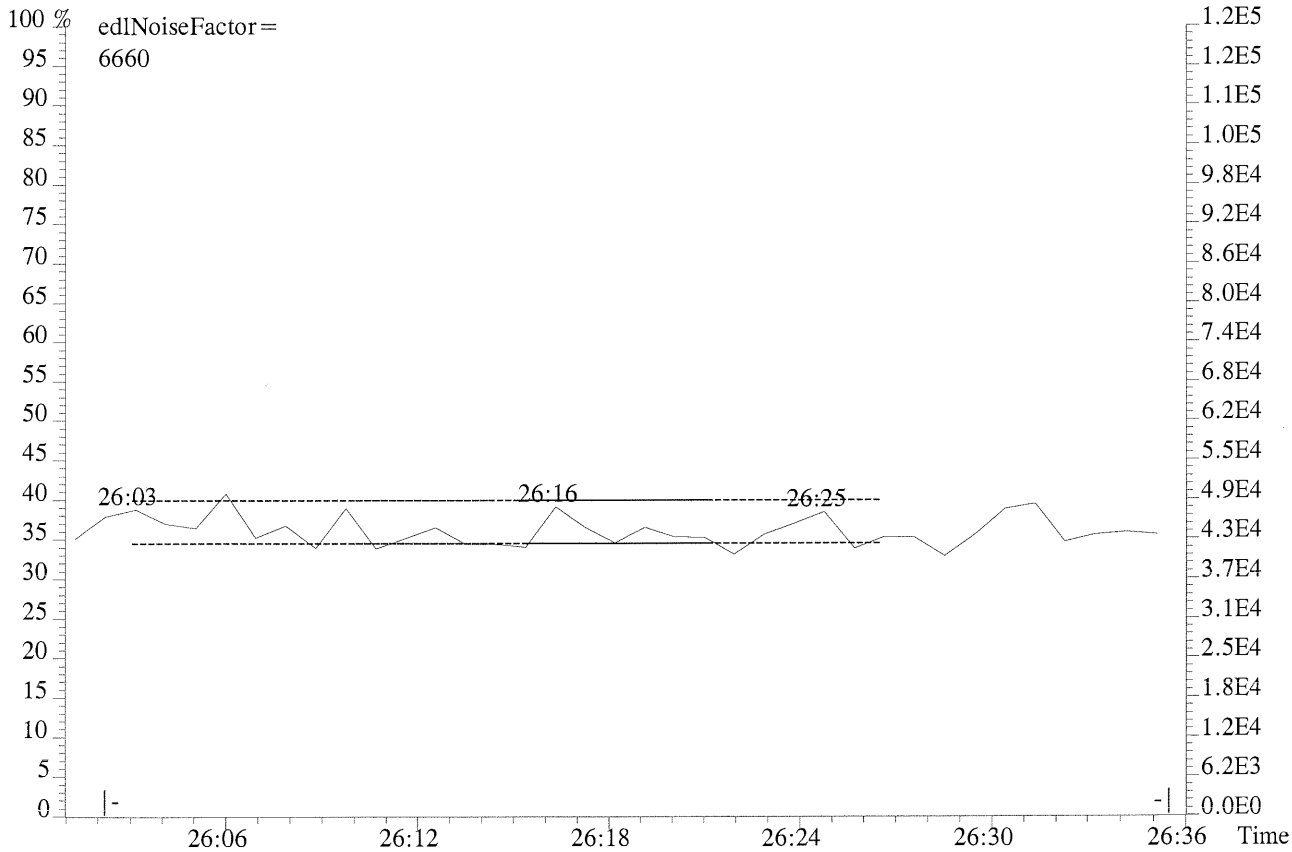
File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23764.0,1.00%,F,T)



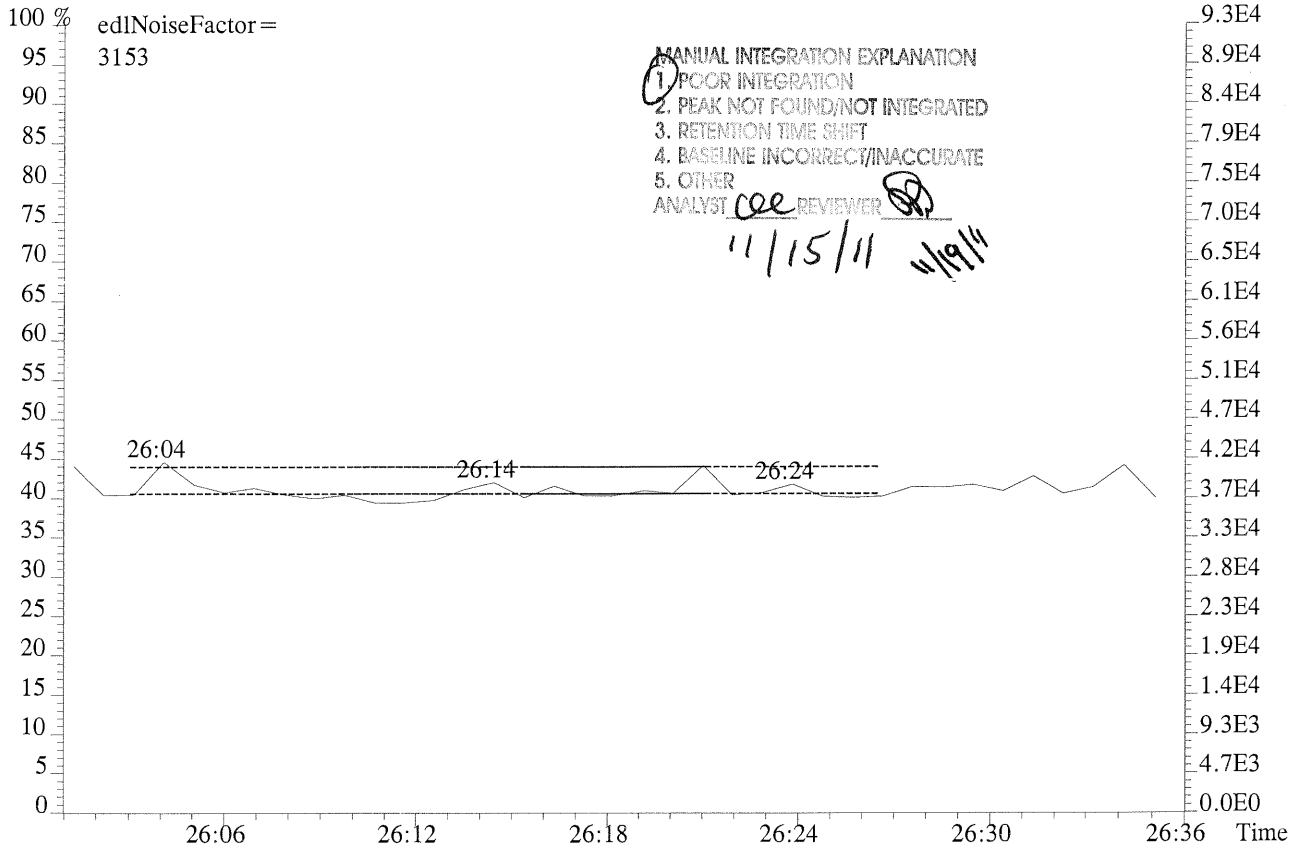
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,21752.0,1.00%,F,T)



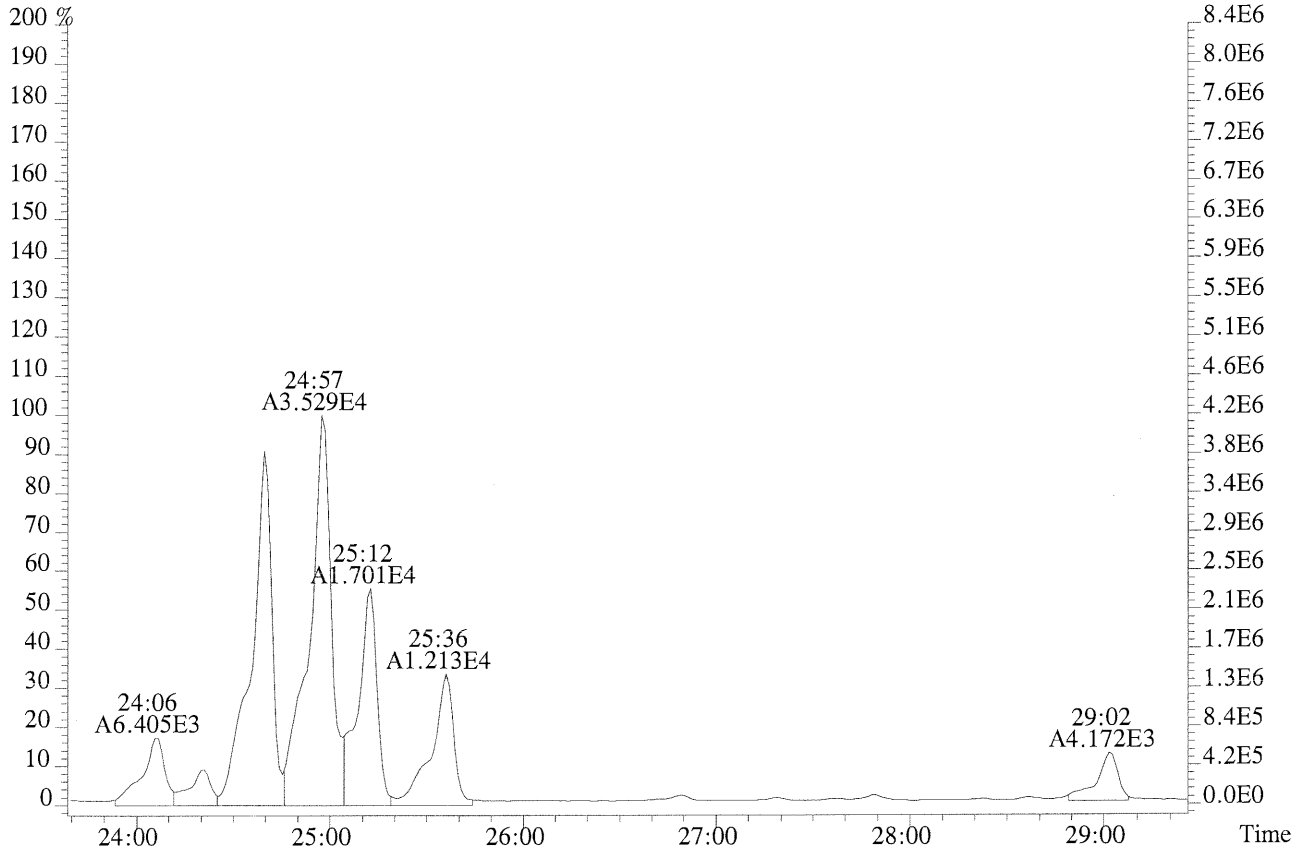
File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
255.9613 F:3



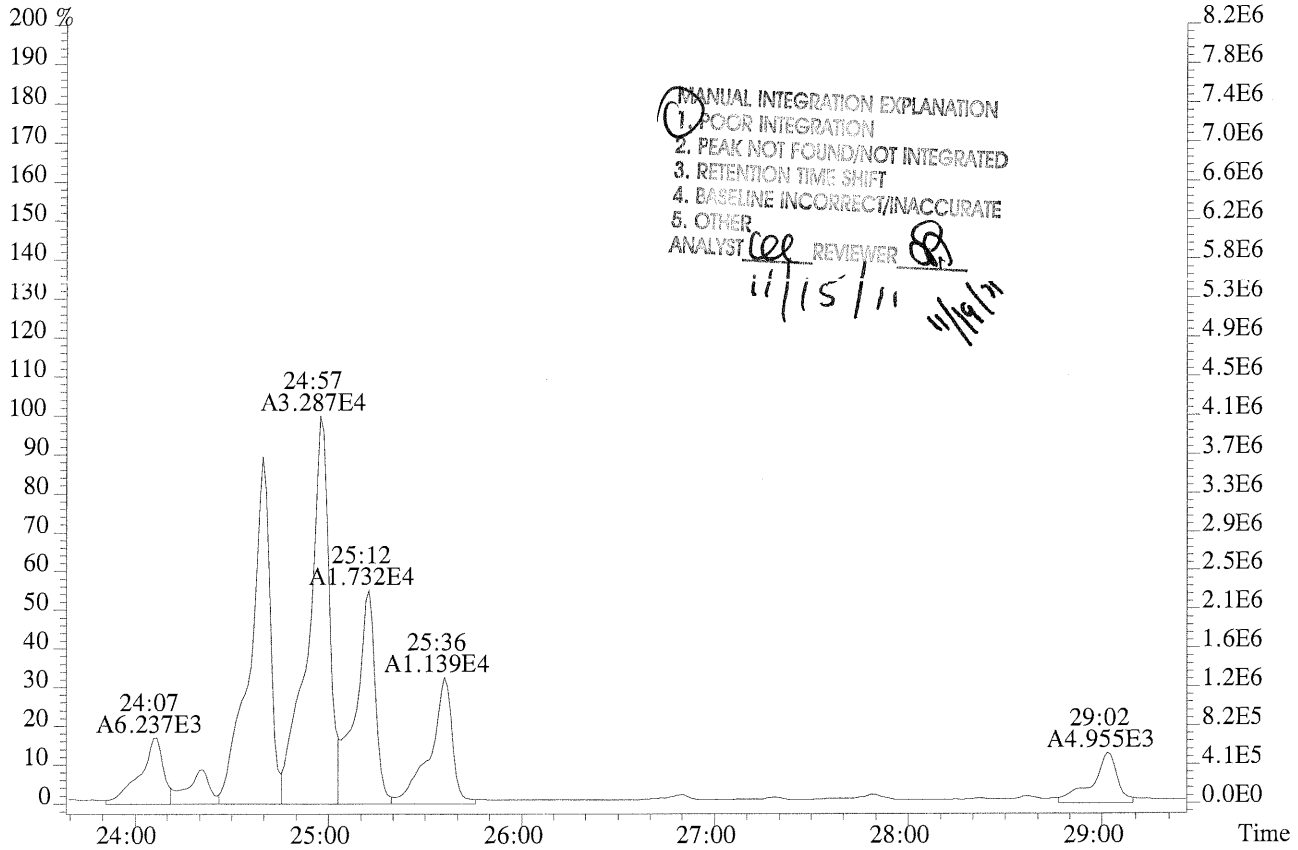
257.9584 F:3



File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868628.0,1.00%,F,T)

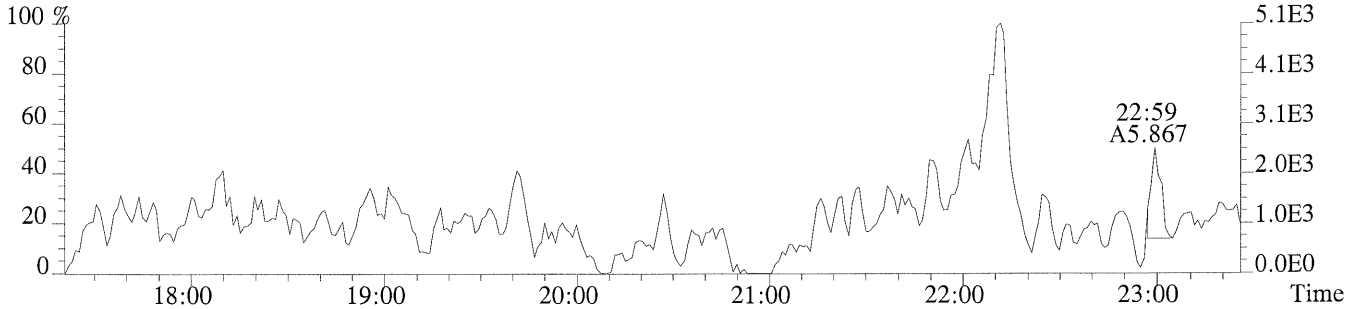


257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,445980.0,1.00%,F,T)

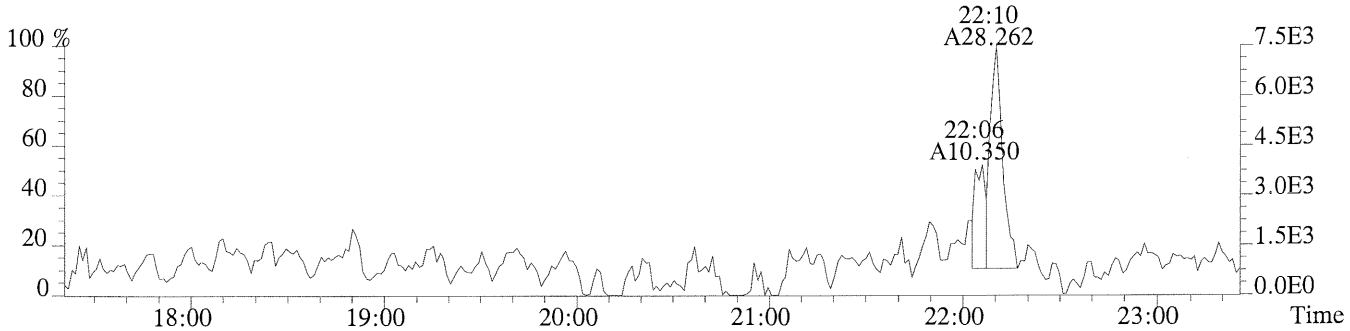


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CCL REVIEWER
11/15/11 11/19/11

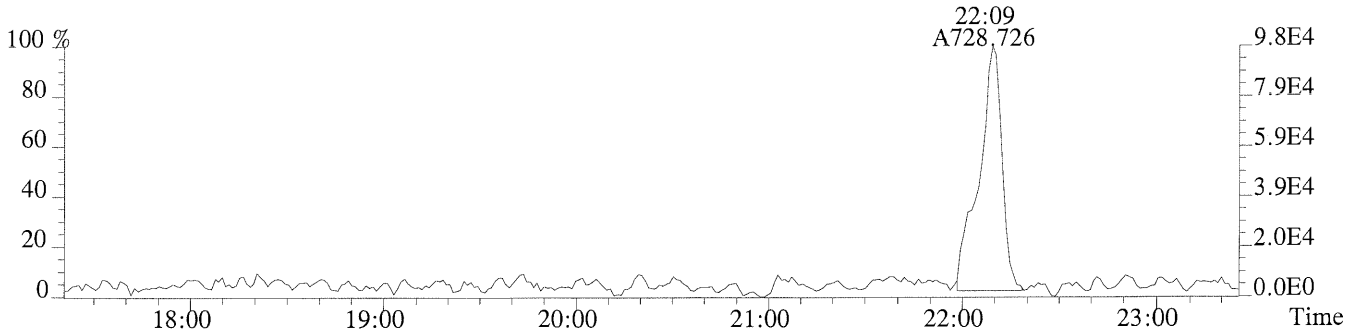
File:U142095 #1-336 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1392.0,1.00%,F,T)



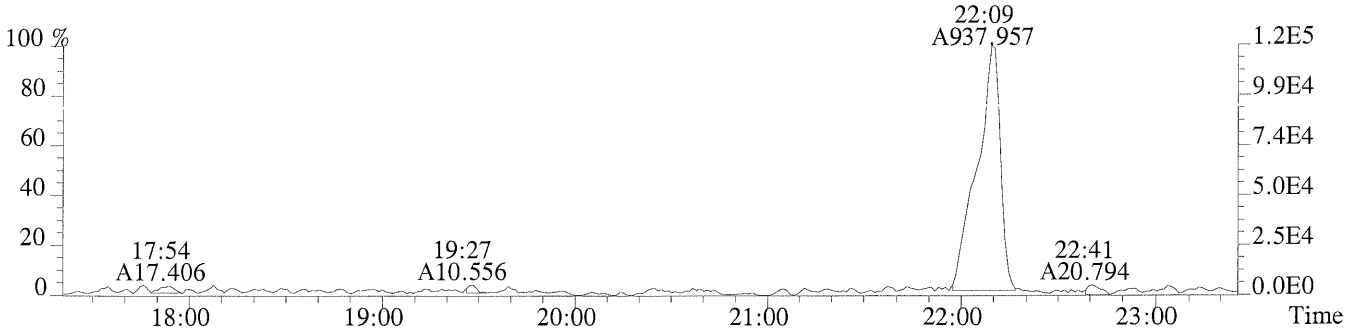
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1272.0,1.00%,F,T)



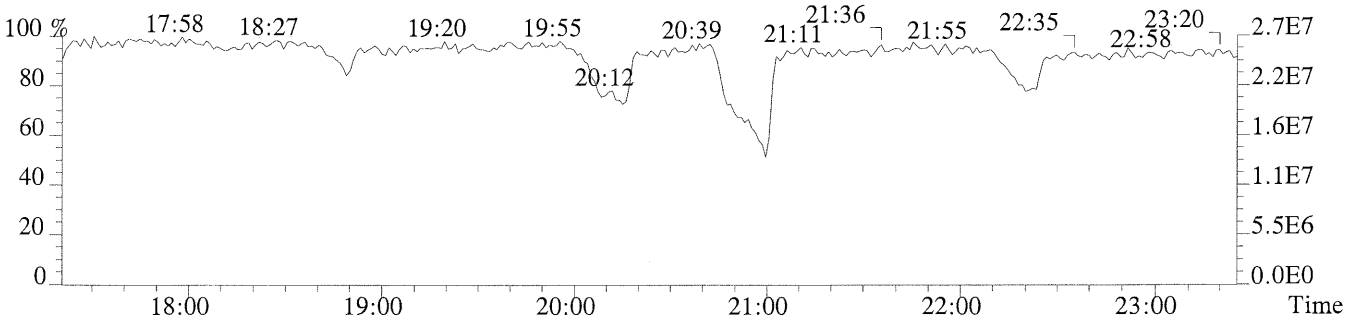
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6184.0,1.00%,F,T)



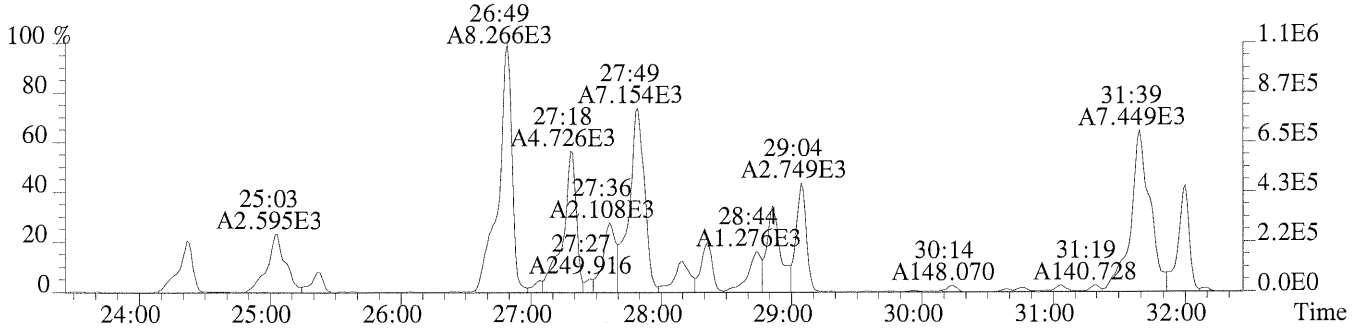
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2720.0,1.00%,F,T)



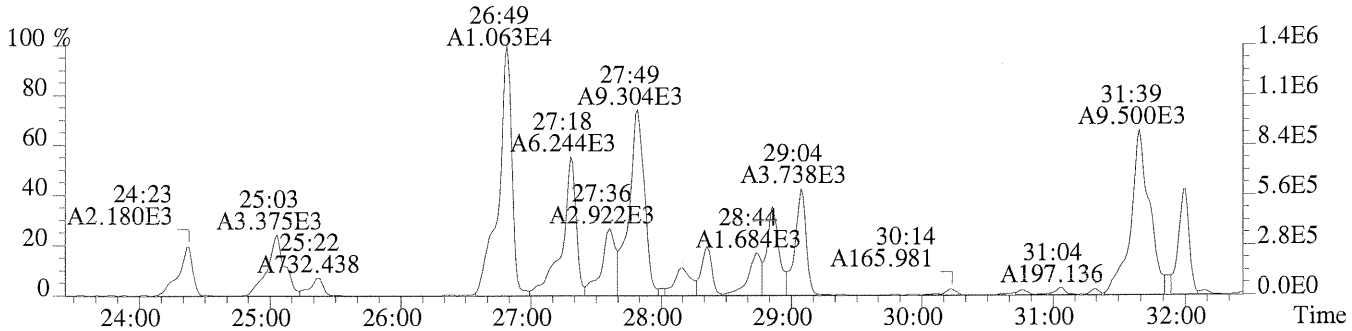
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



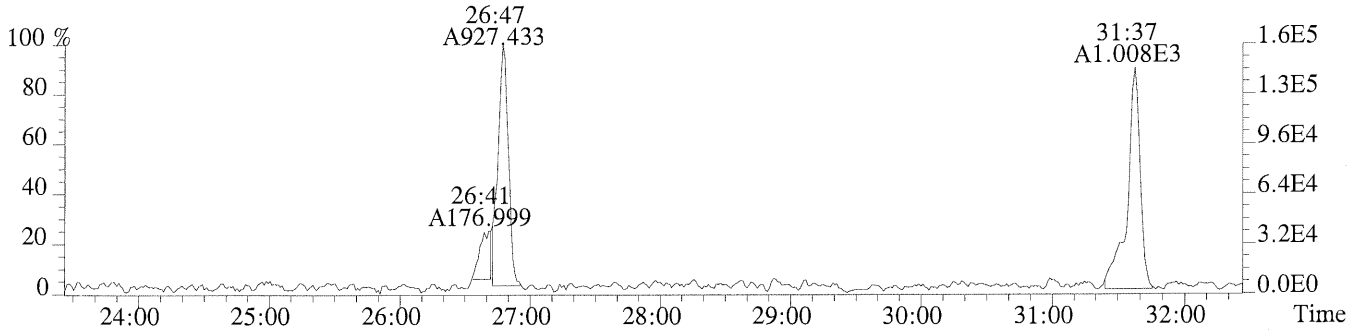
File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1532.0,1.00%,F,T)



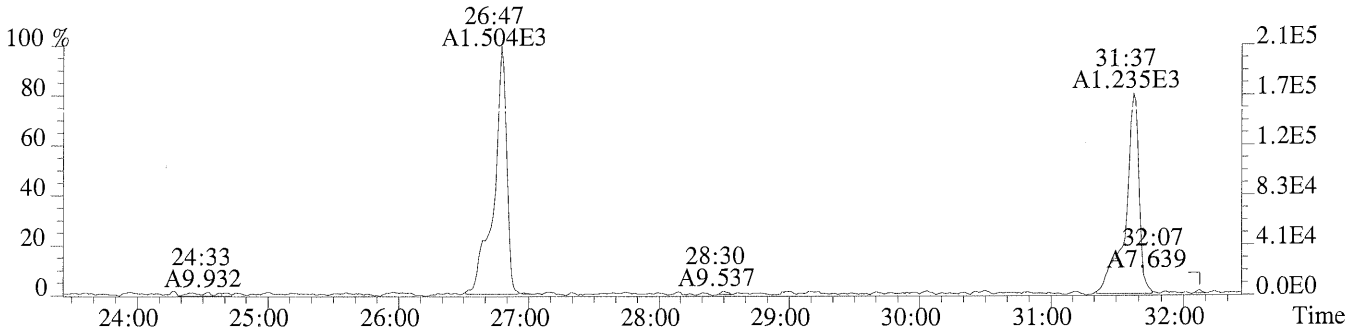
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2008.0,1.00%,F,T)



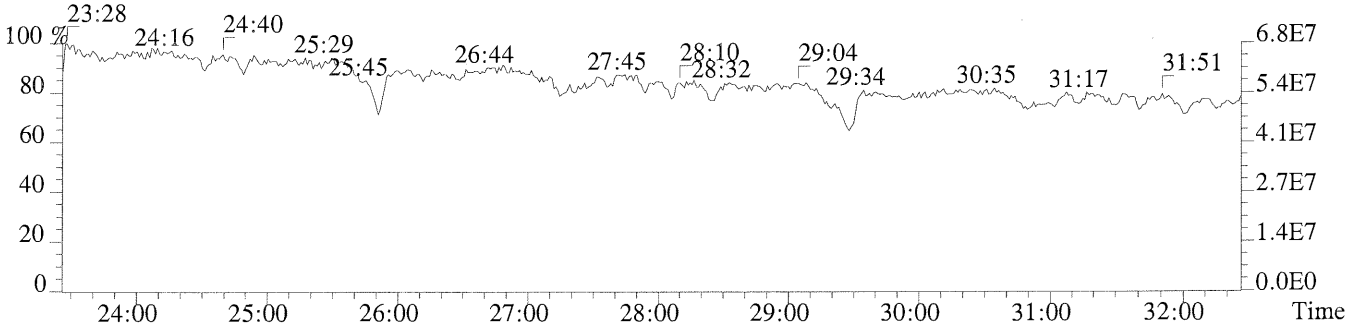
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6624.0,1.00%,F,T)



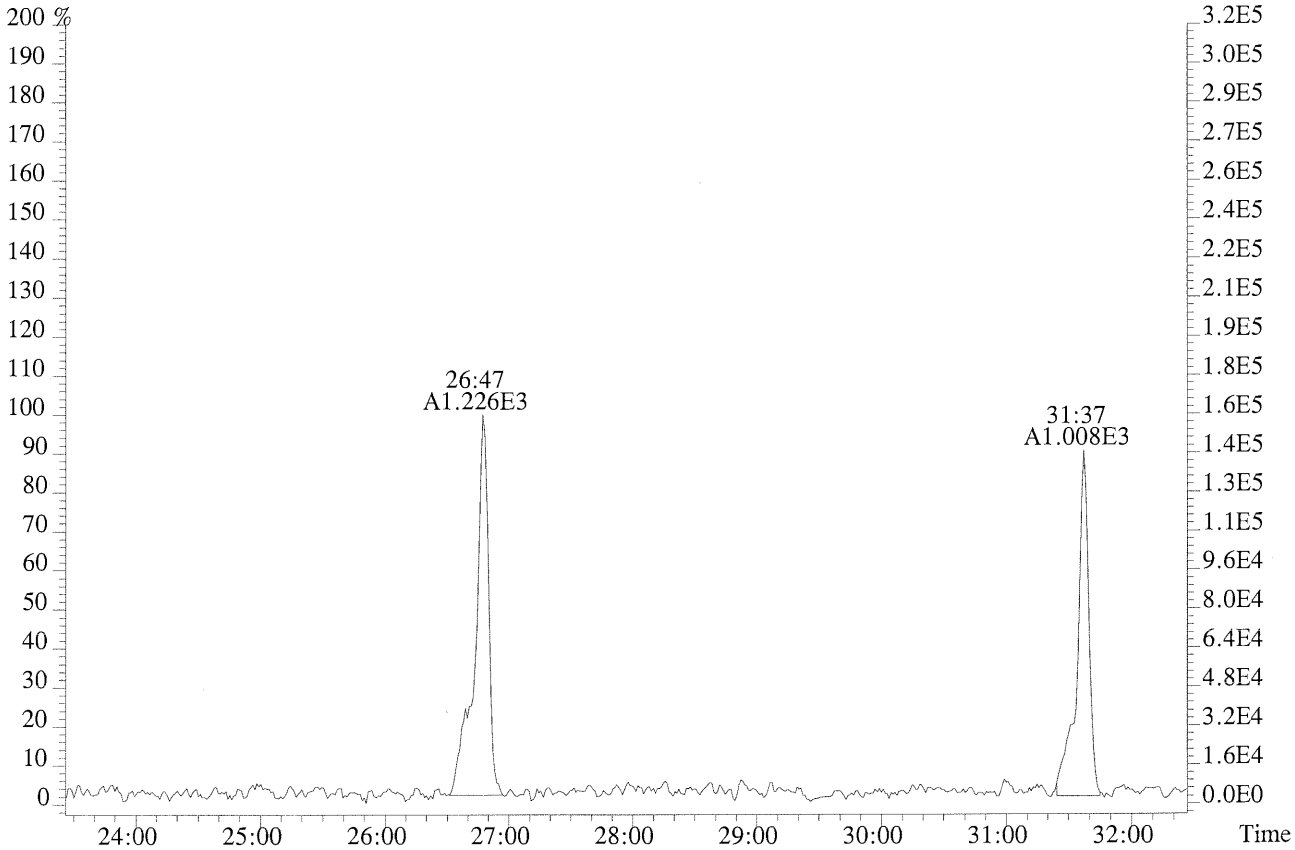
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2224.0,1.00%,F,T)



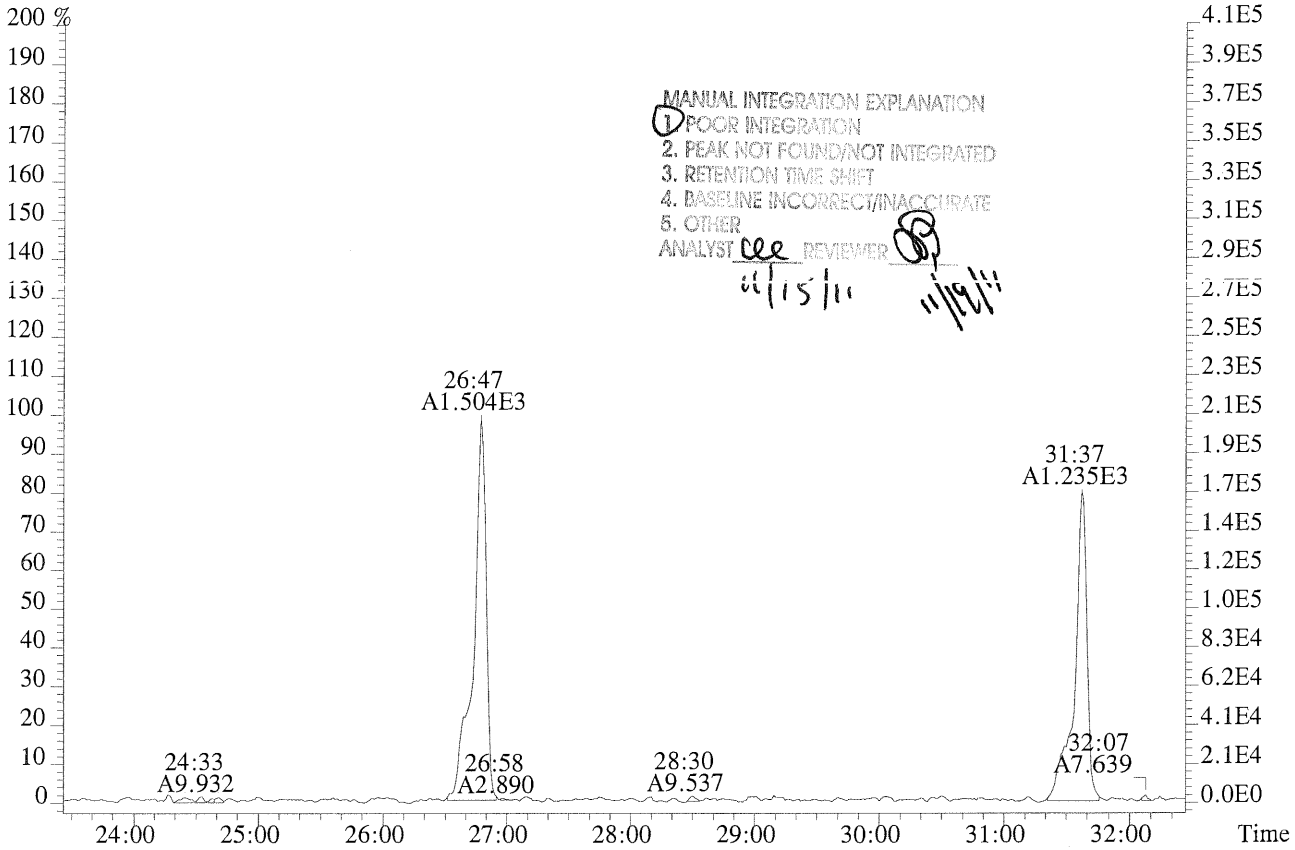
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



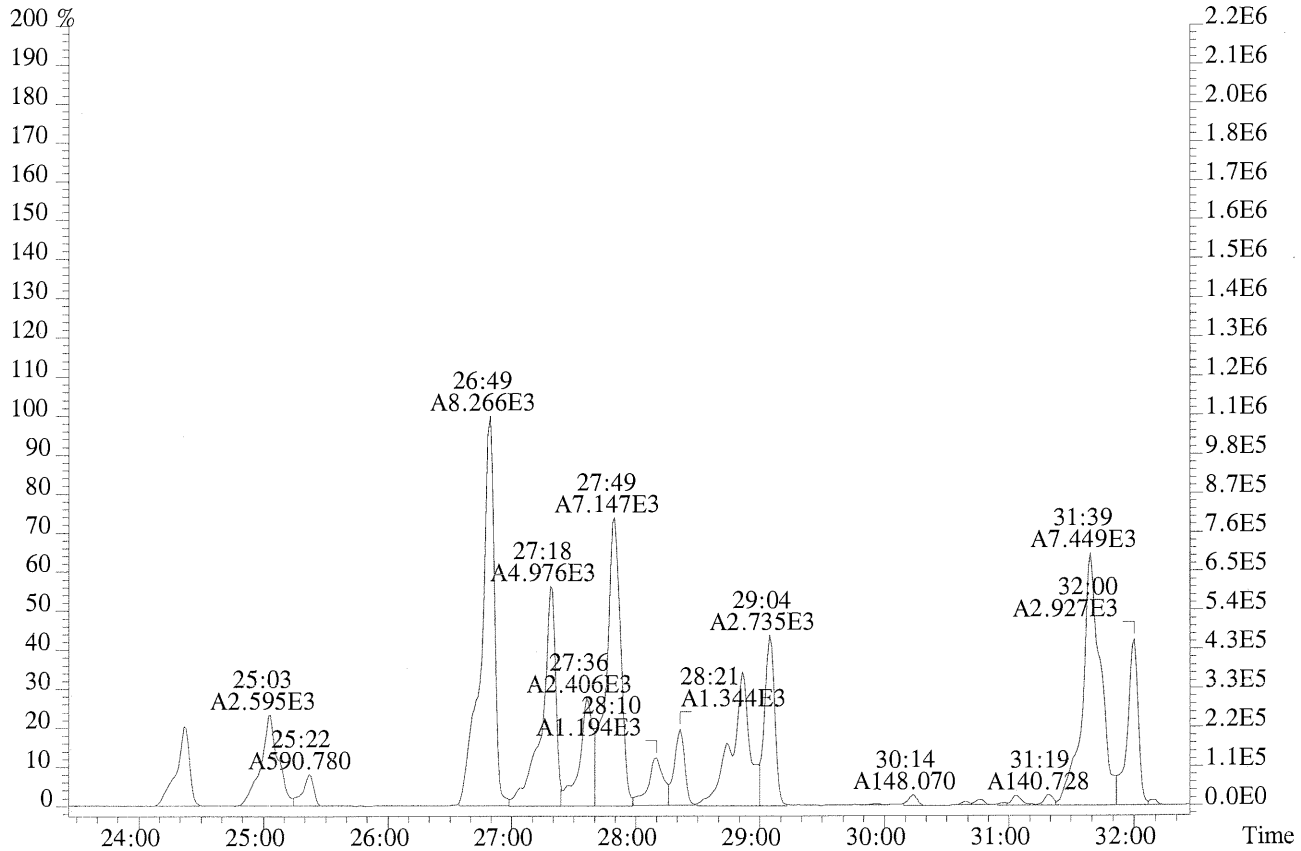
File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6624.0,1.00%,F,T)



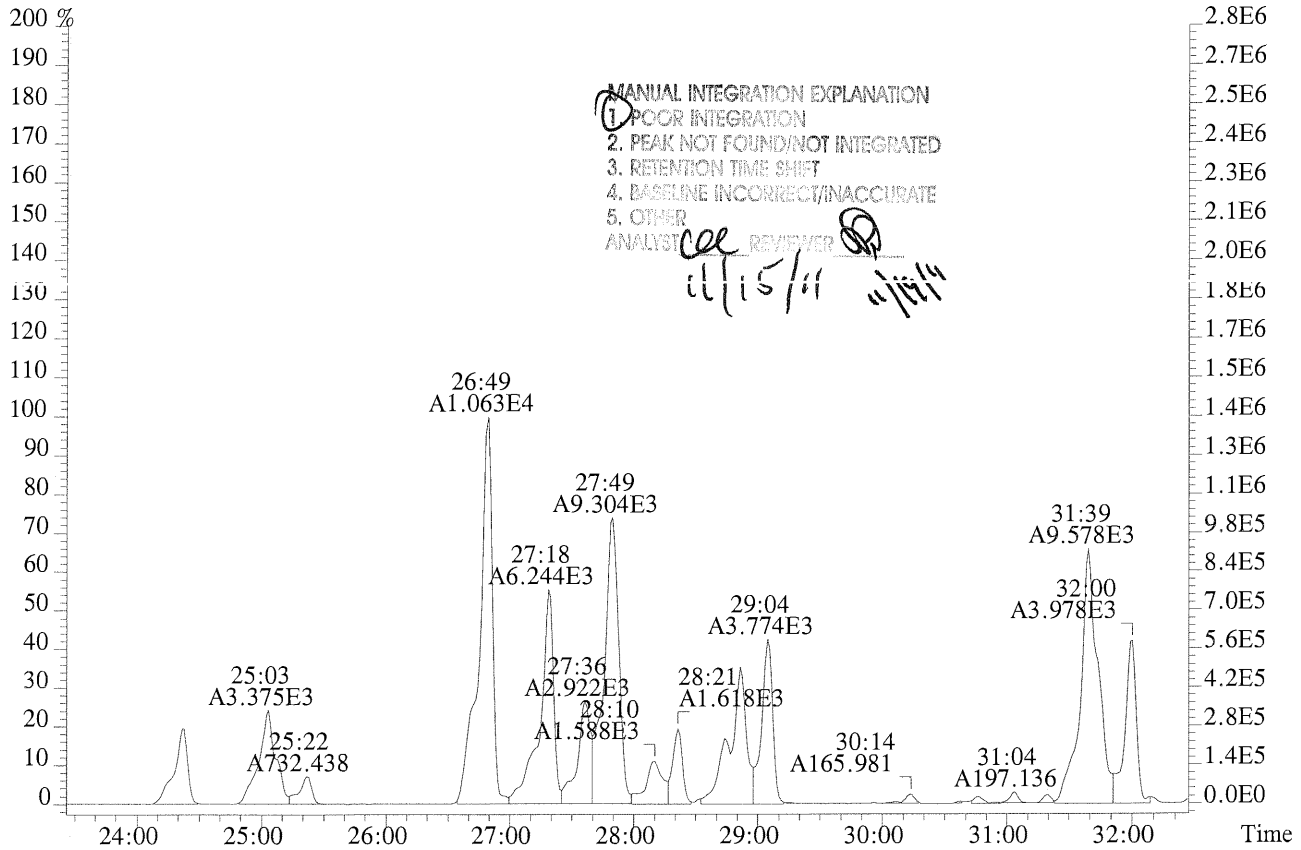
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2224.0,1.00%,F,T)



File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1532.0,1.00%,F,T)

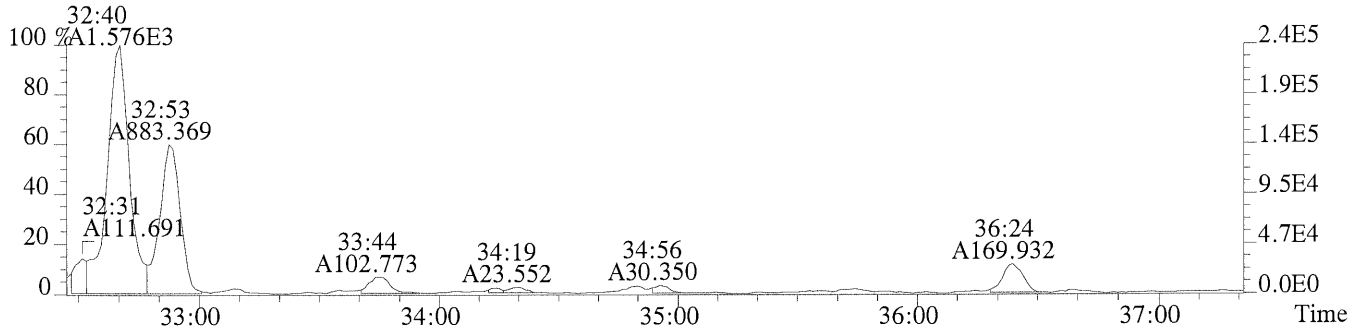


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2008.0,1.00%,F,T)

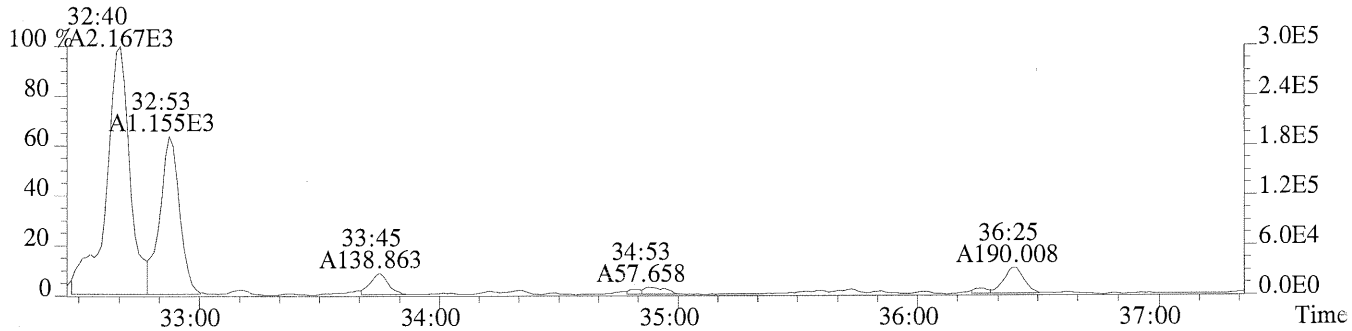


File:U142095 #1-314 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

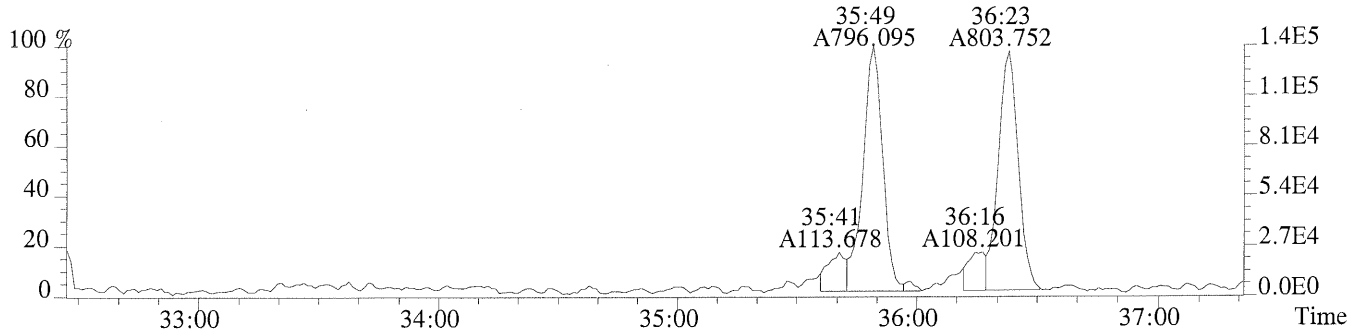
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2136.0,1.00%,F,T)



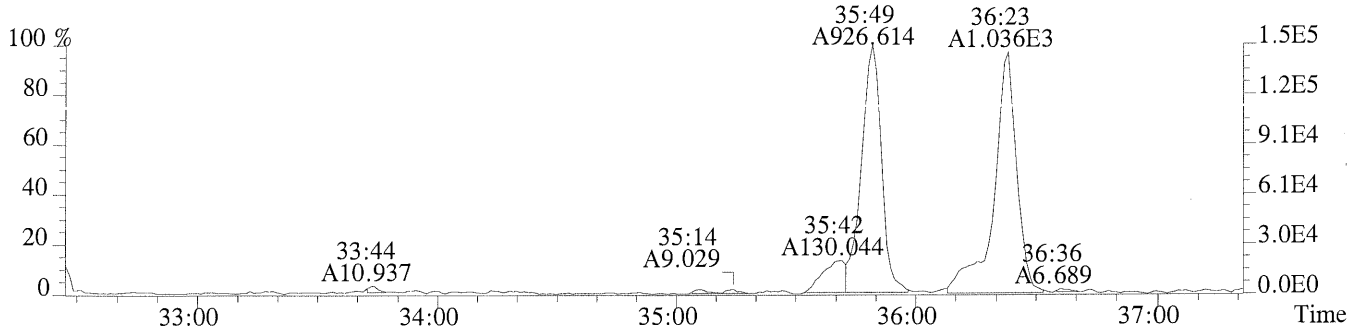
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2320.0,1.00%,F,T)



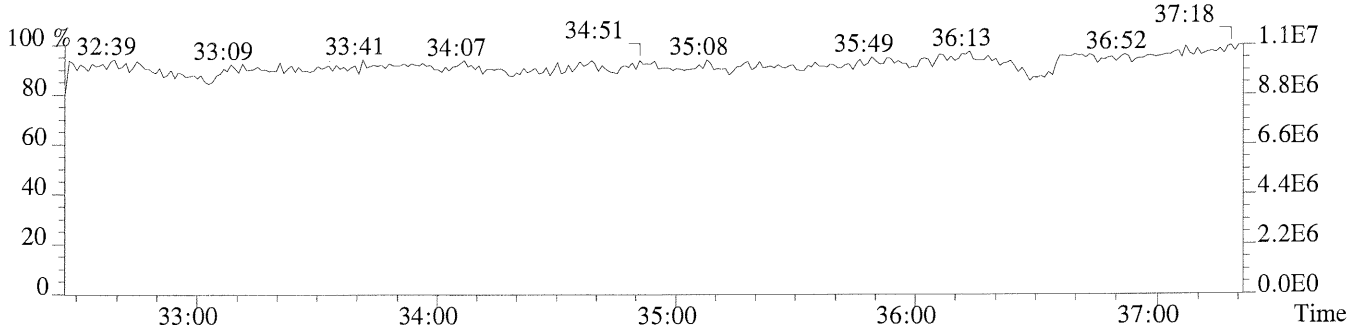
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5484.0,1.00%,F,T)



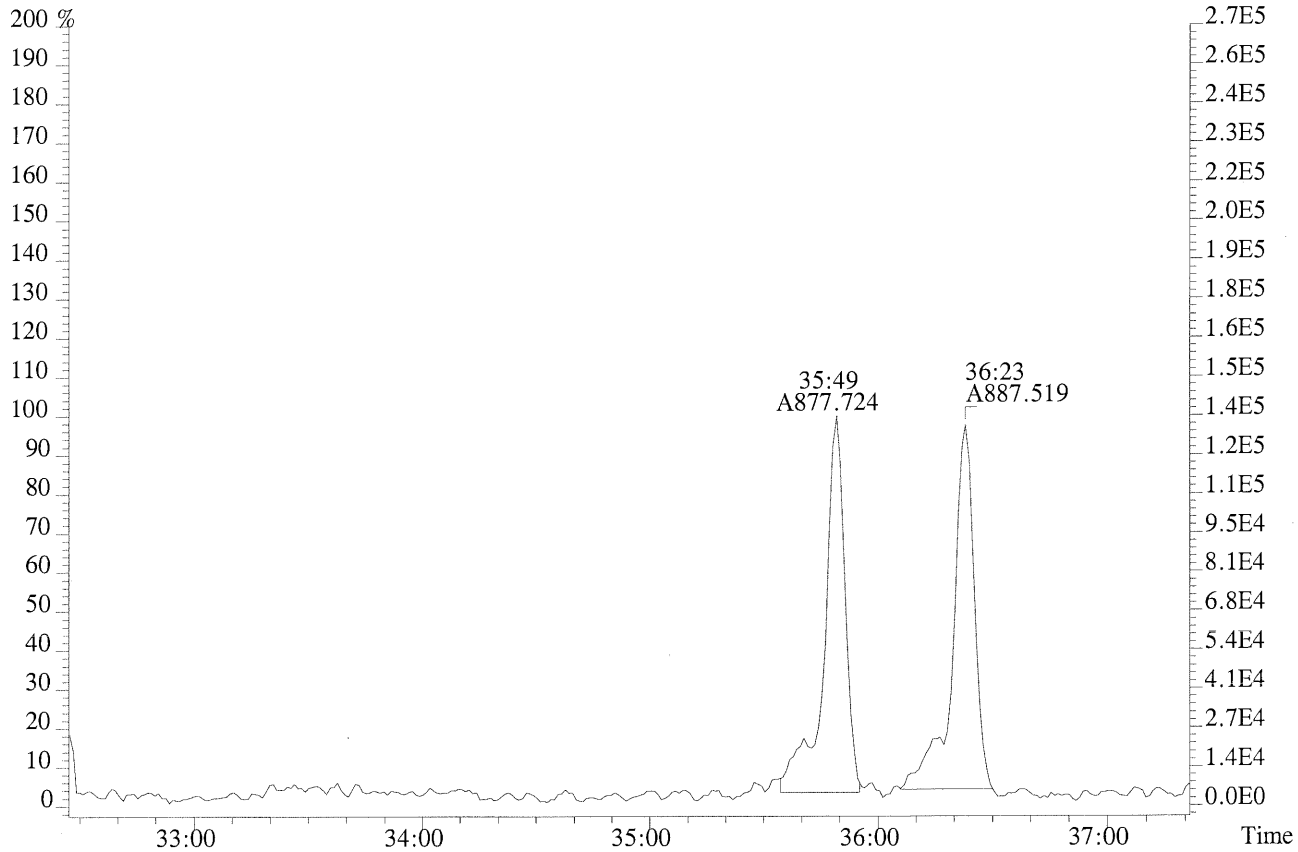
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1652.0,1.00%,F,T)



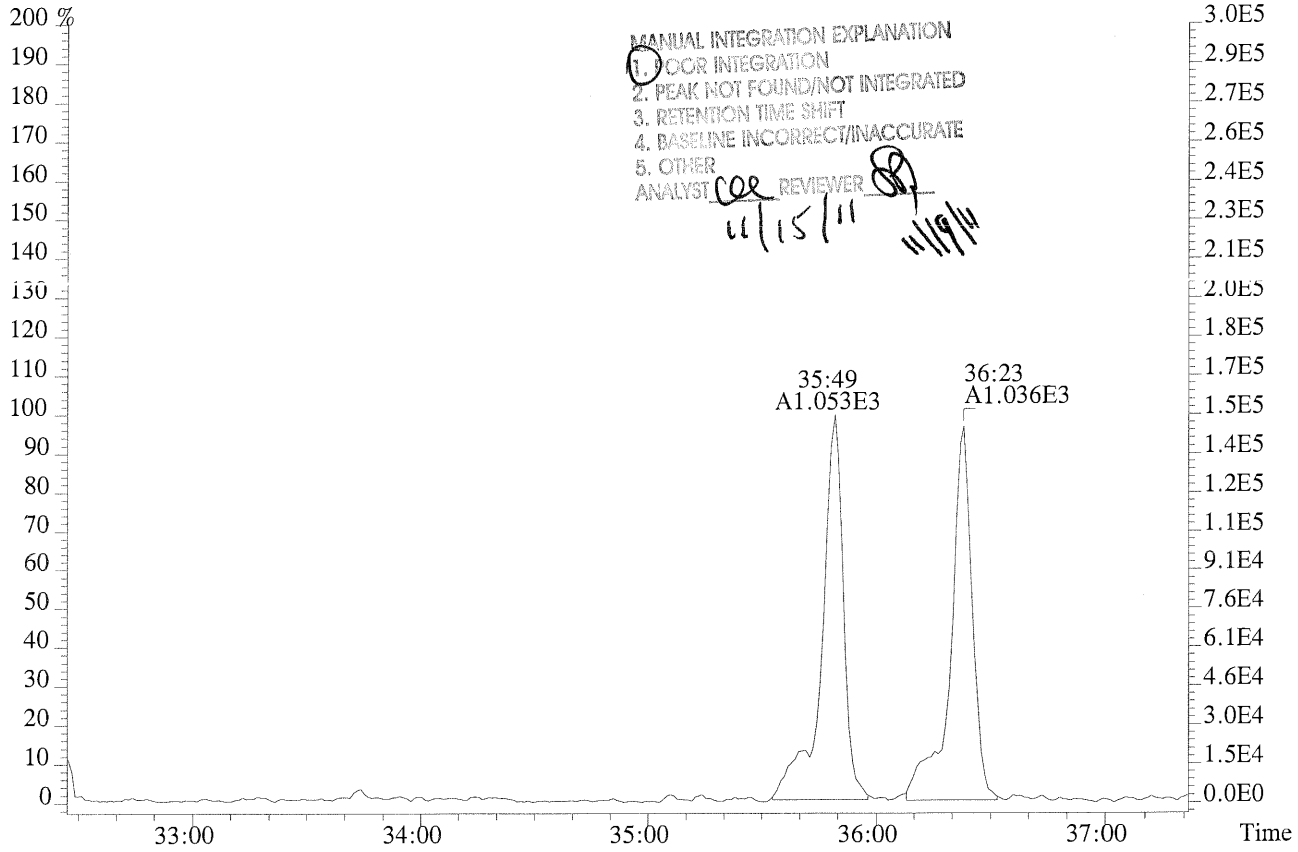
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142095 #1-314 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5484.0,1.00%,F,T)

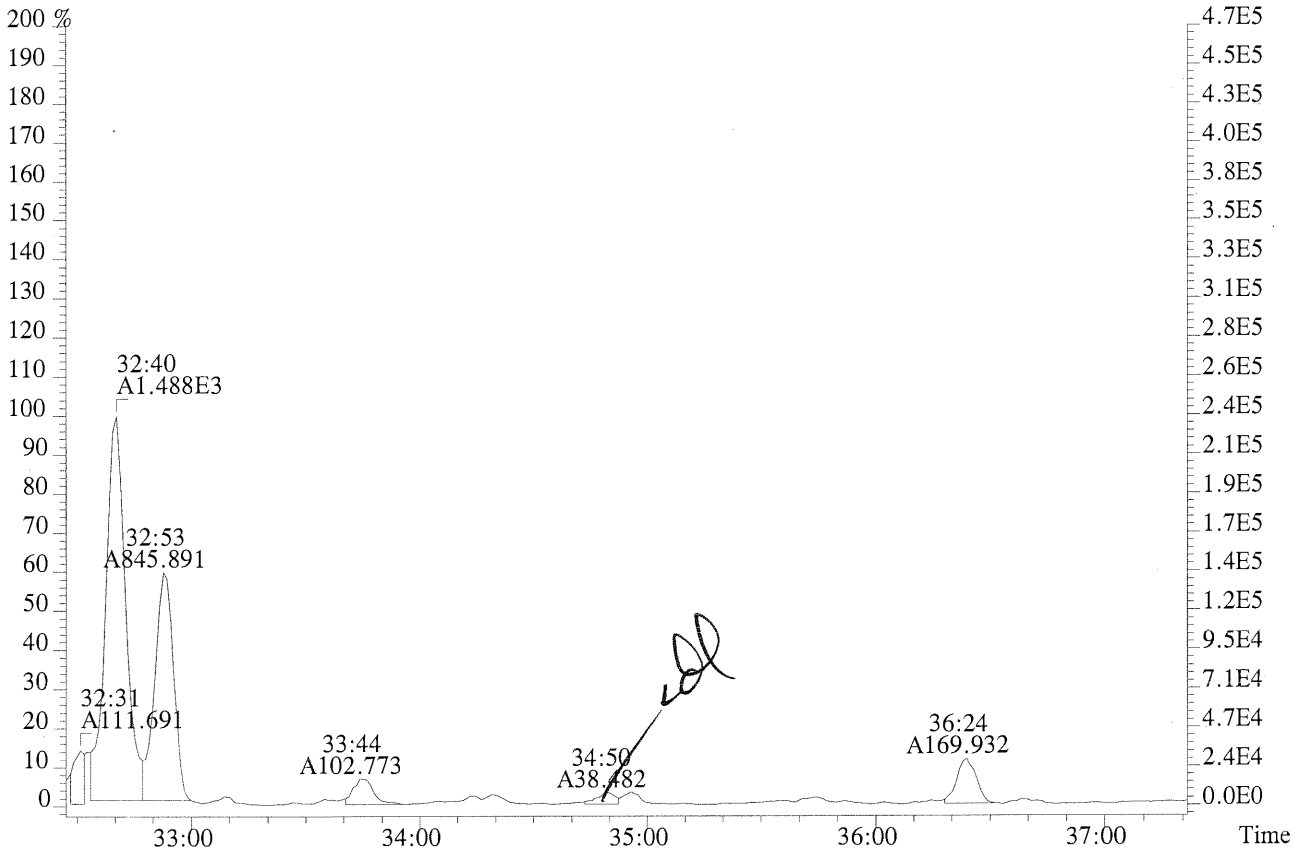


303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1652.0,1.00%,F,T)

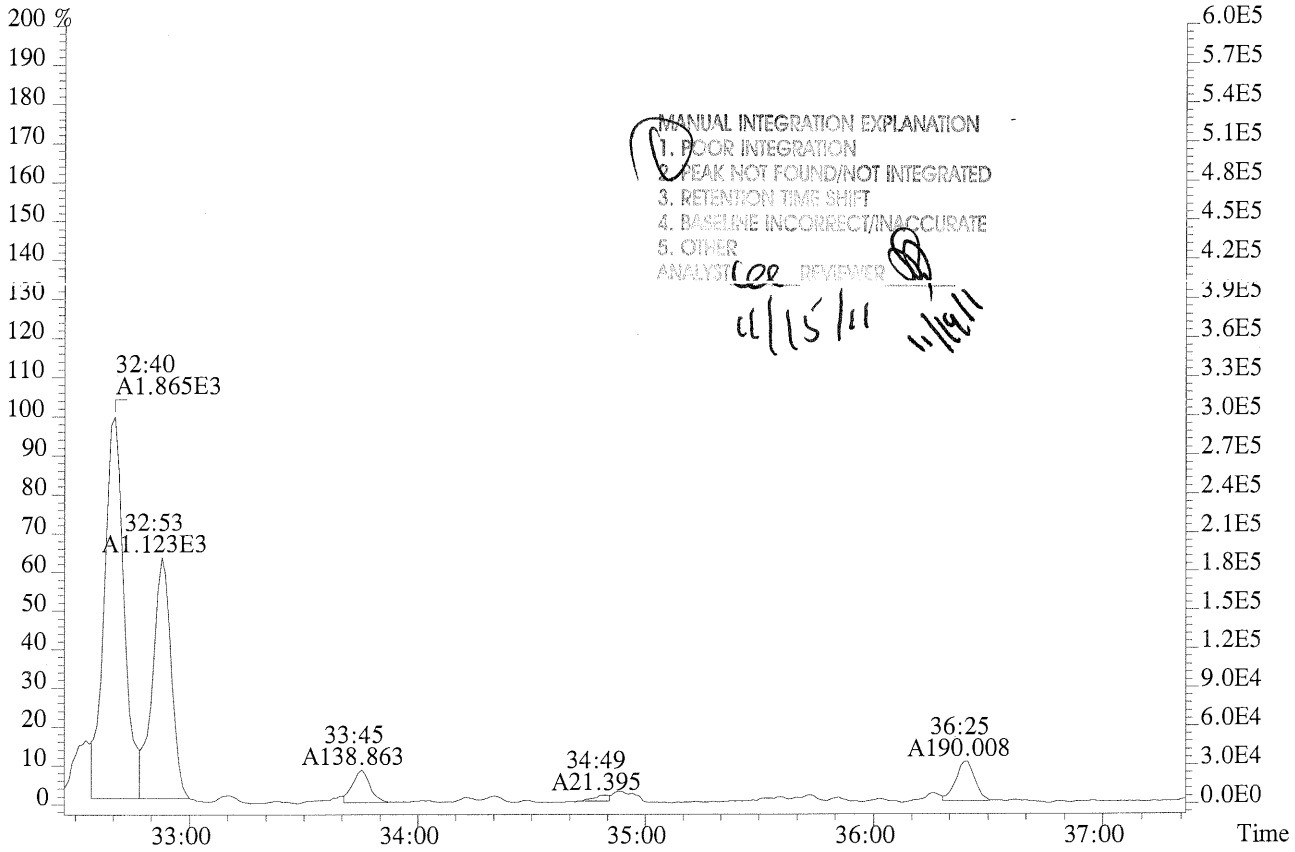


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CCR REVIEWER
11/15/11 11/19/11

File:U142095 #1-314 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2136.0,1.00%,F,T)

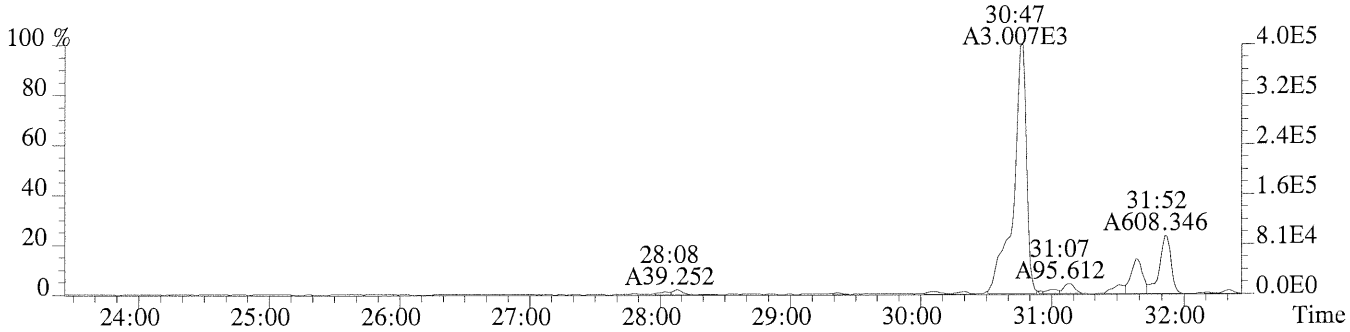


291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2320.0,1.00%,F,T)

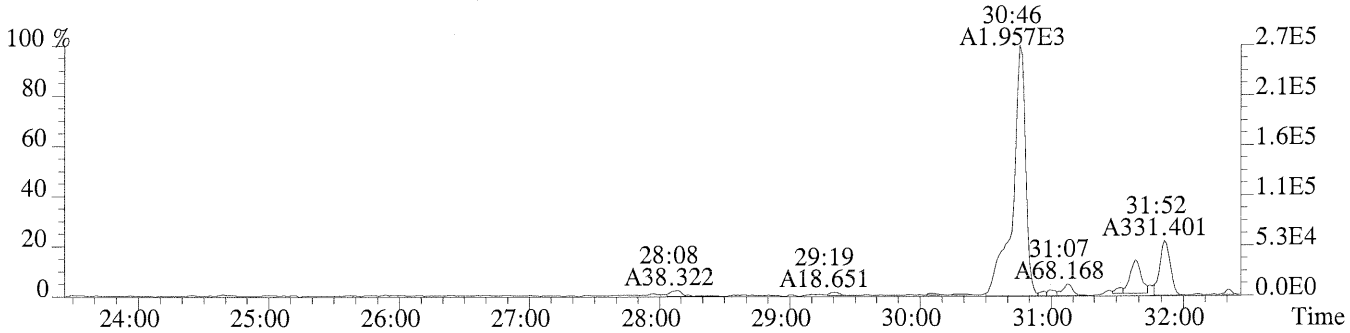


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST REVIEWER
11/15/11 11/16/11

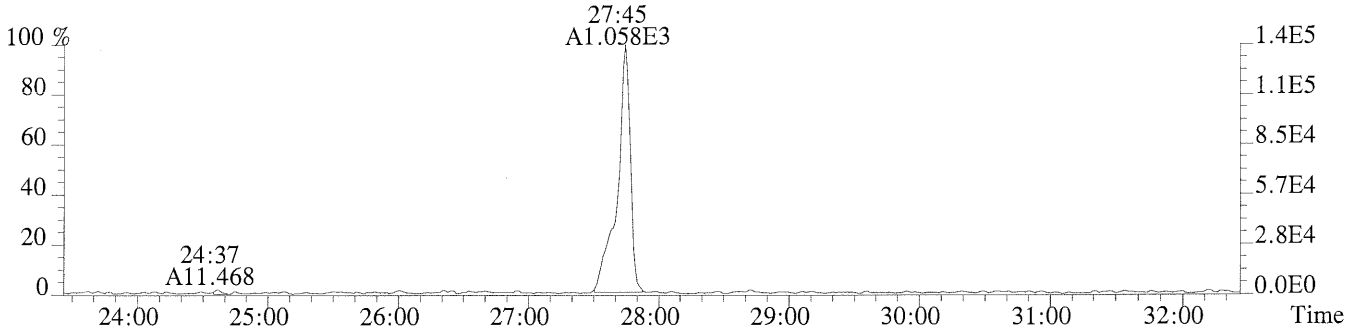
File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



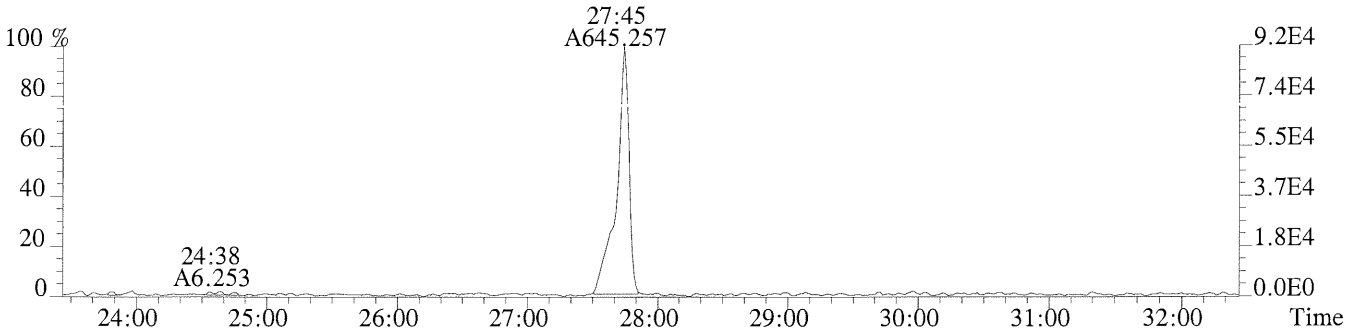
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



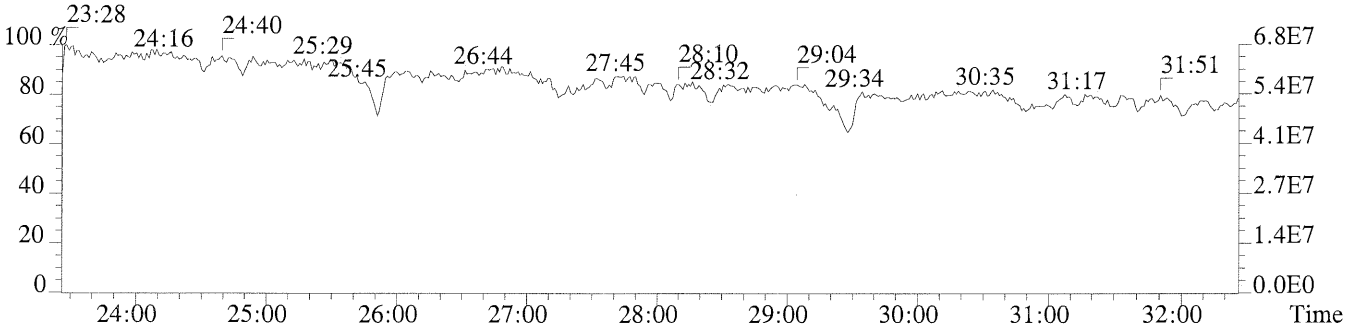
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1588.0,1.00%,F,T)



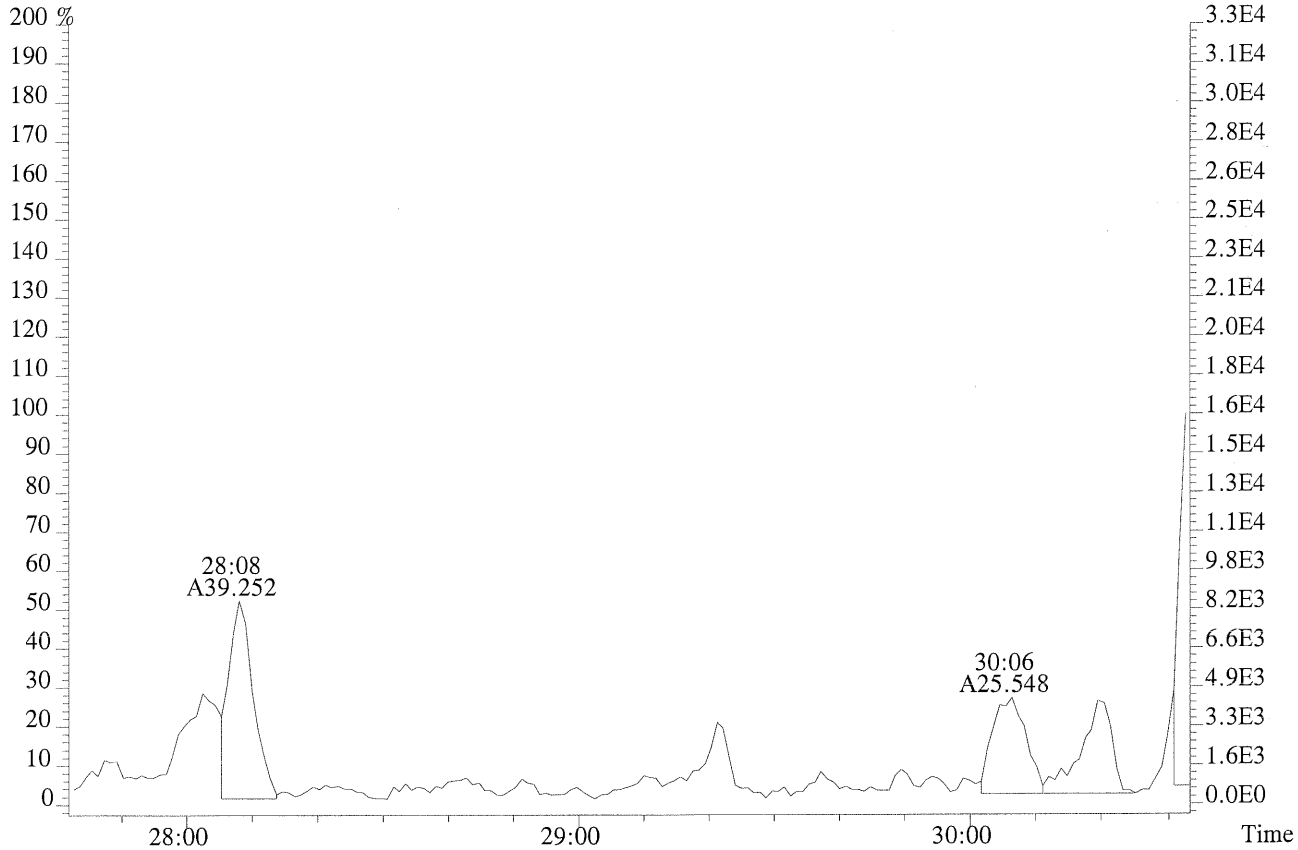
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)



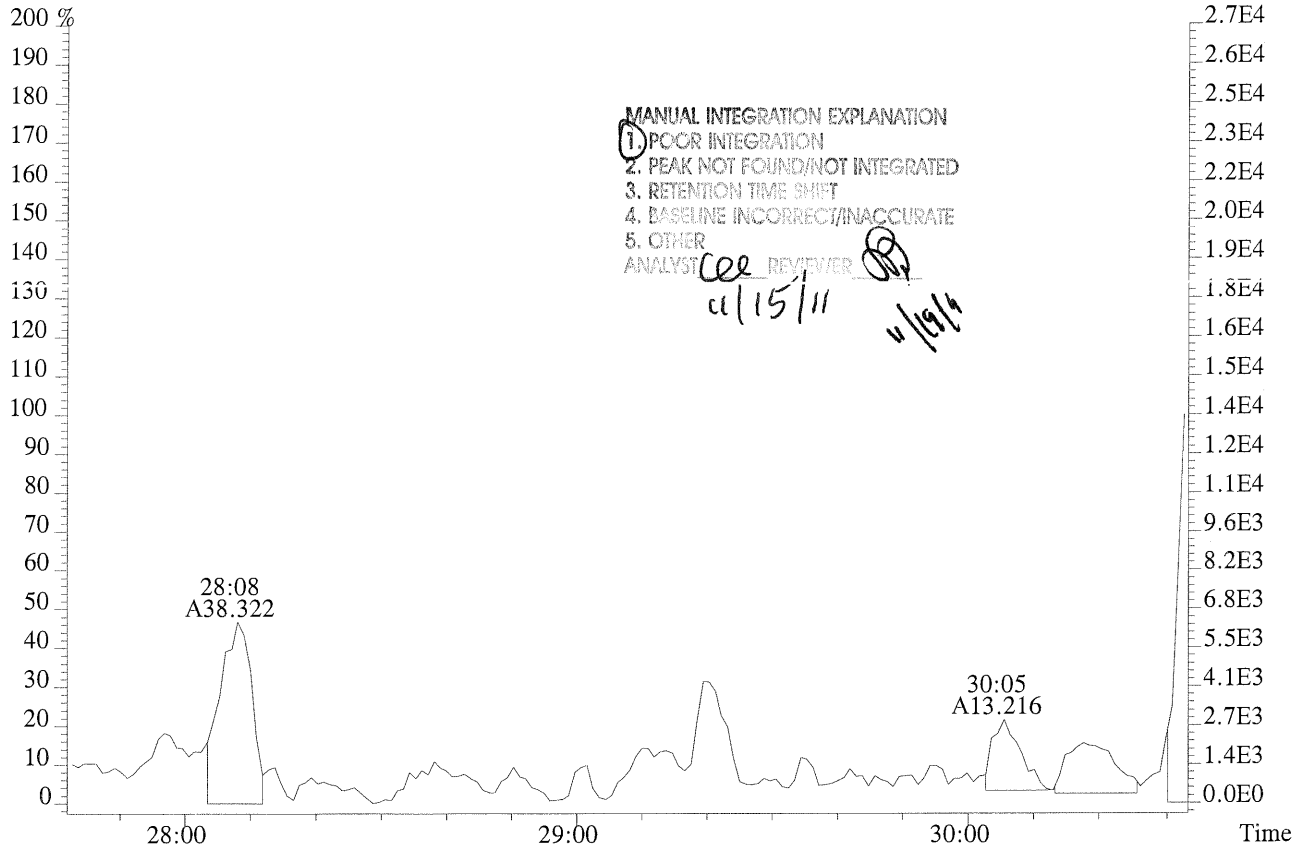
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)

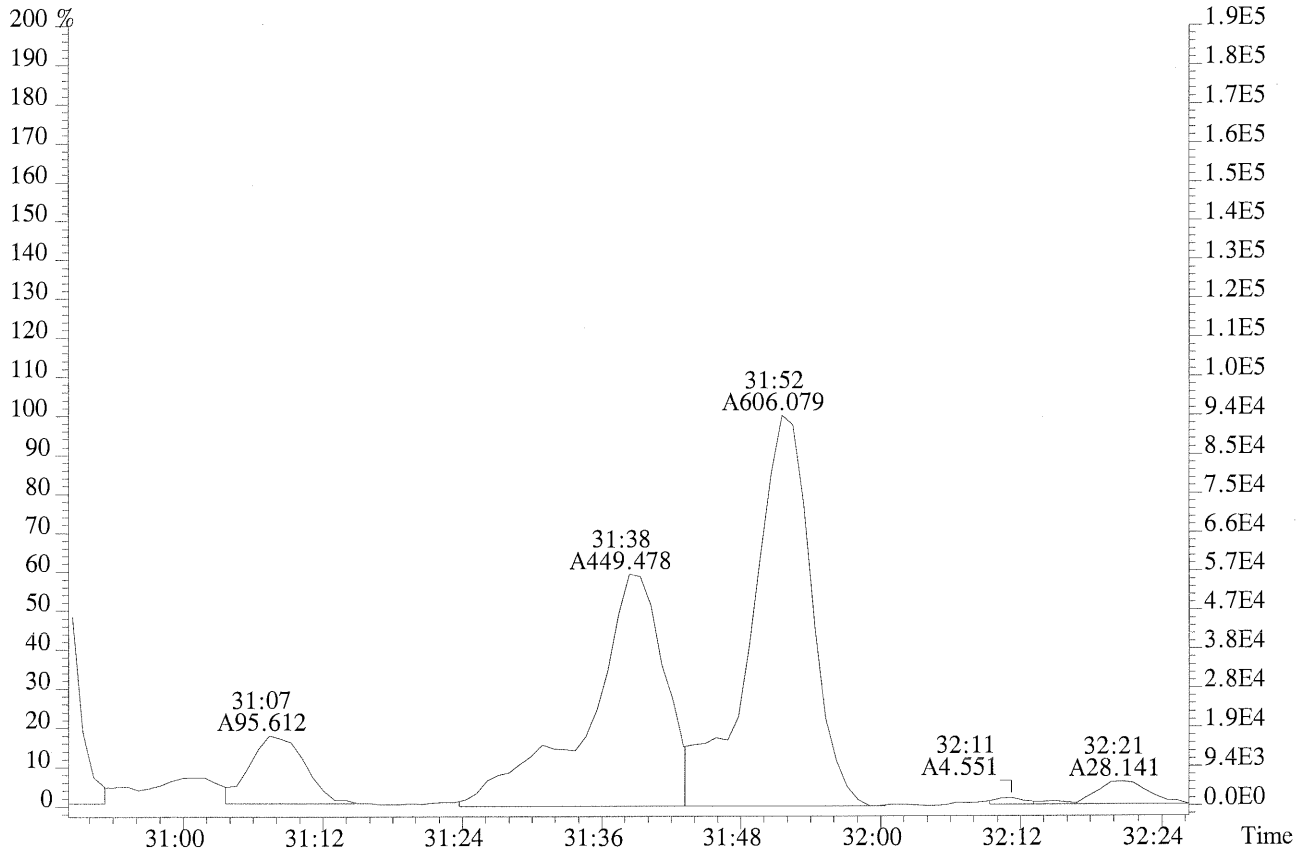


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)

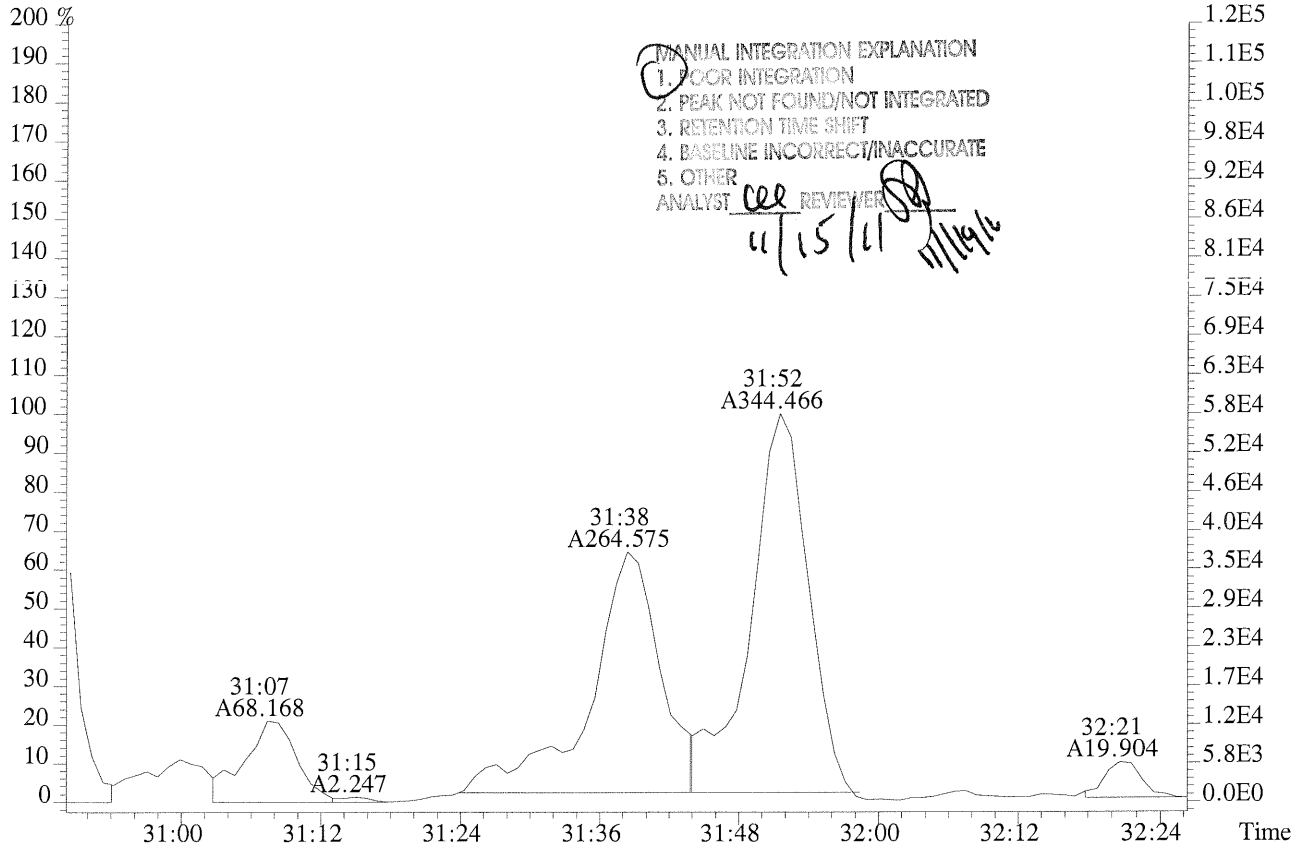


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Cee REVIEWER
11/15/11 11/19/11

File:U142095 #1-576 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)

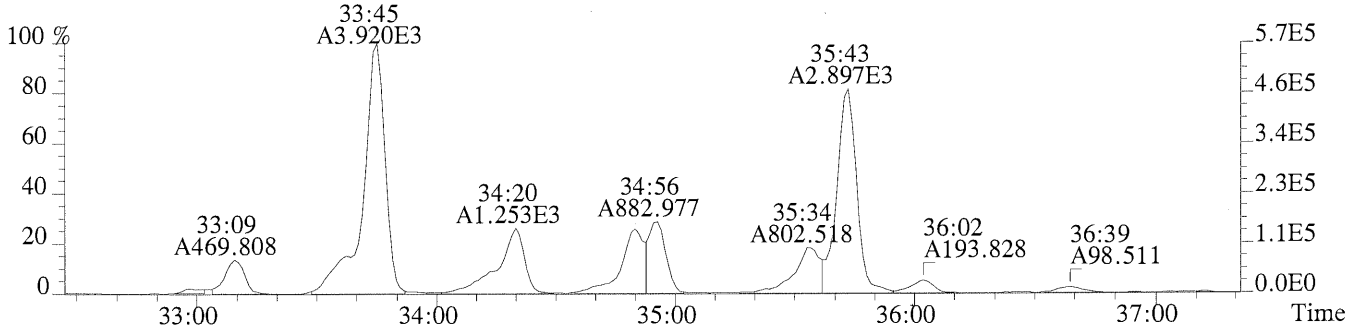


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)

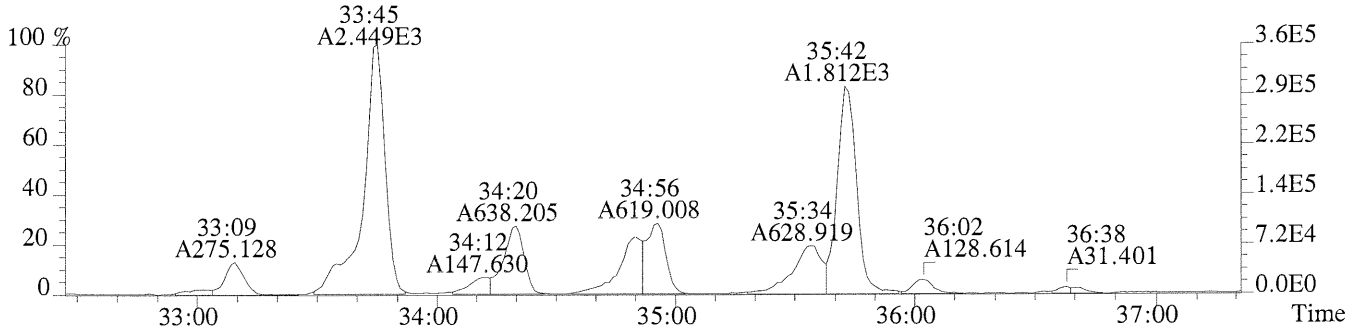


File:U142095 #1-314 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

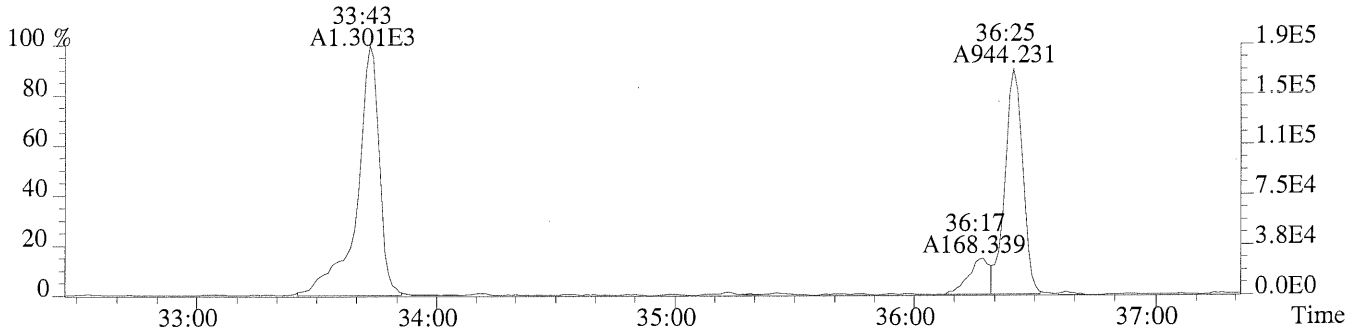
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



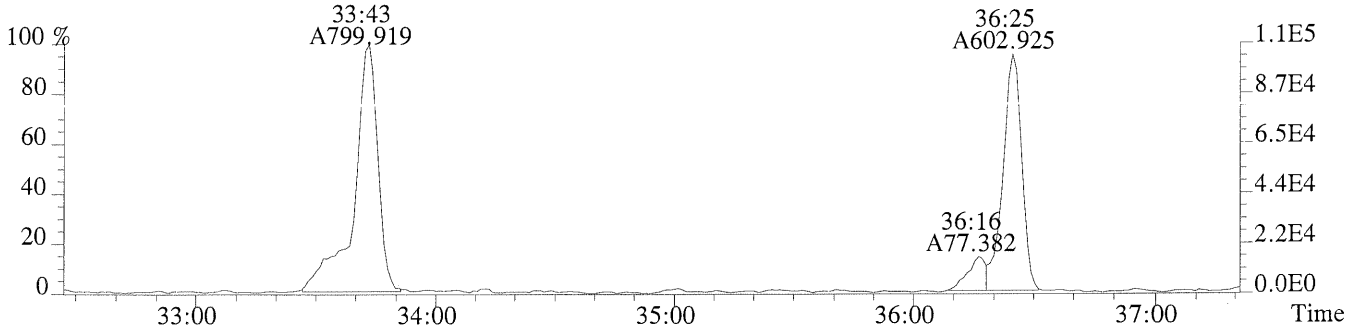
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



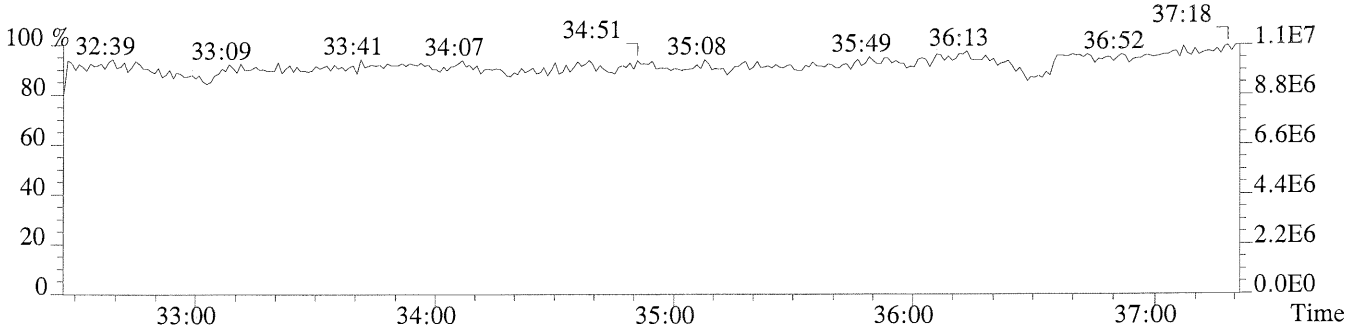
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)



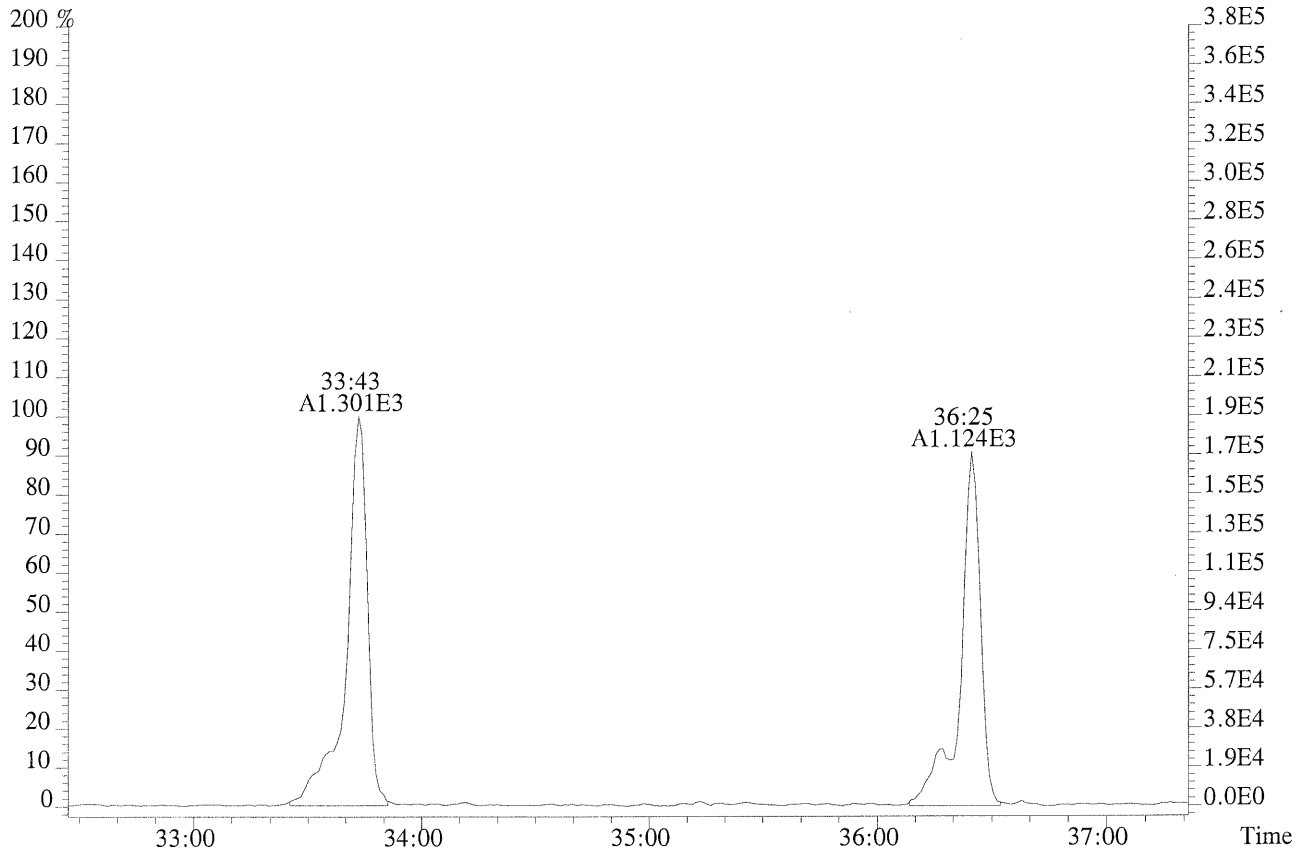
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)



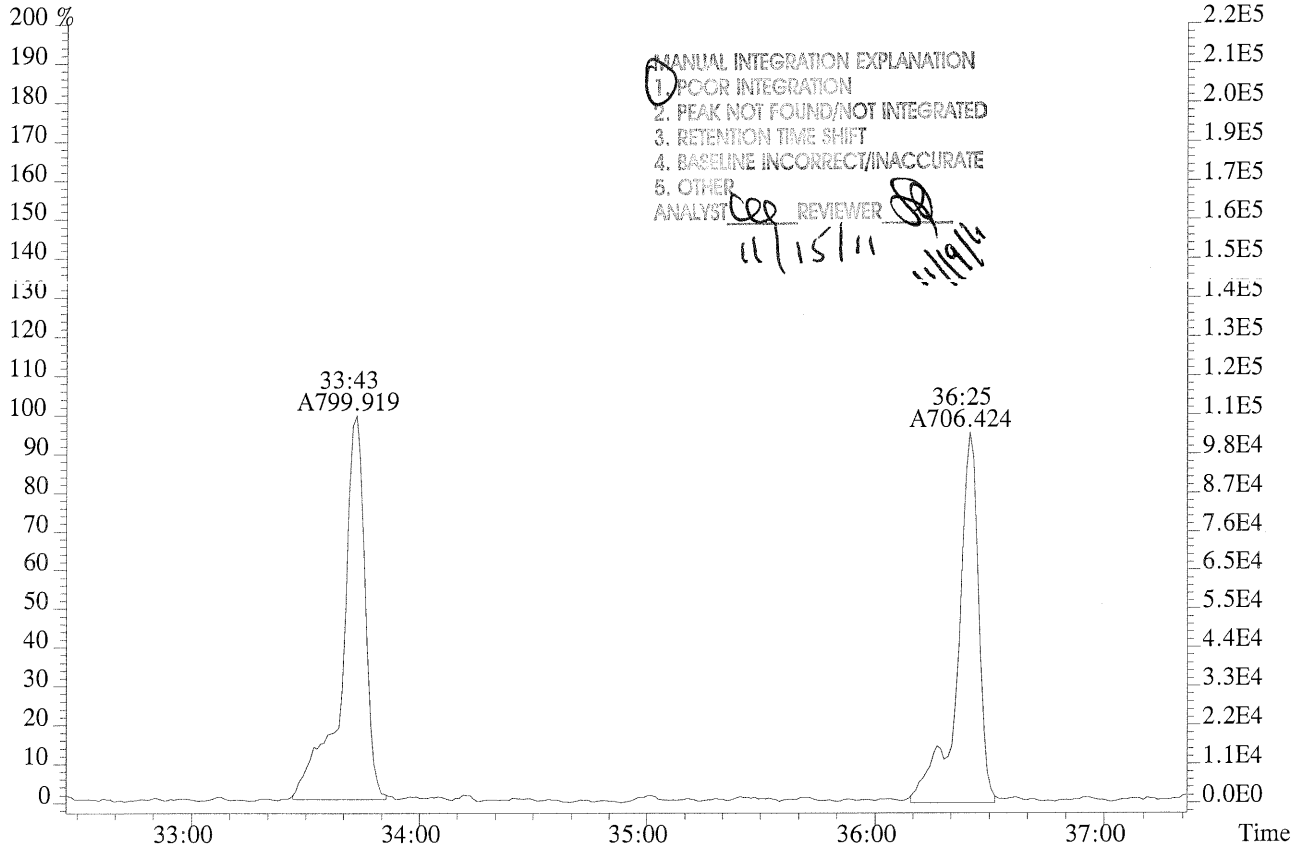
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142095 #1-314 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)

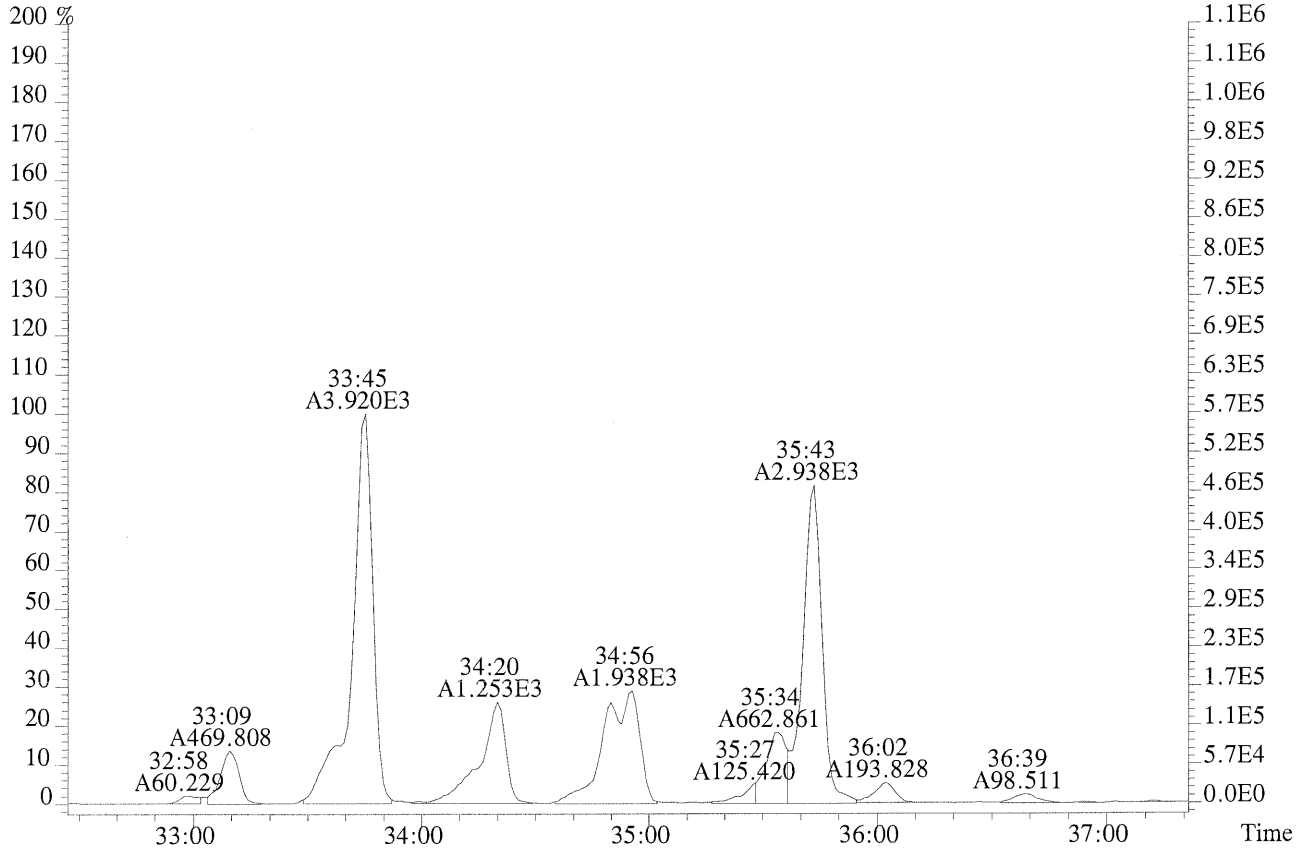


339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)

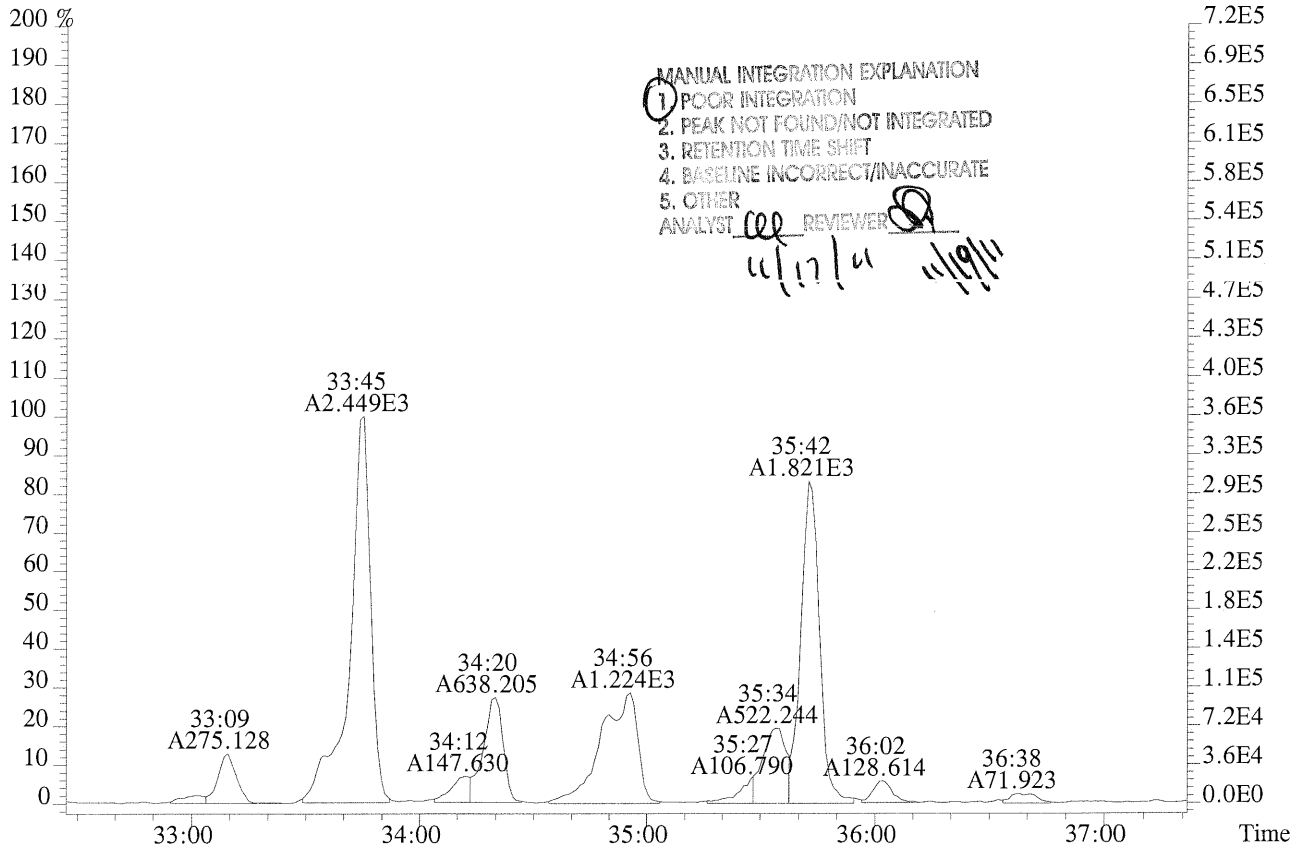


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST ___ REVIEWER ___
11/15/11 11/19/11

File:U142095 #1-314 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)

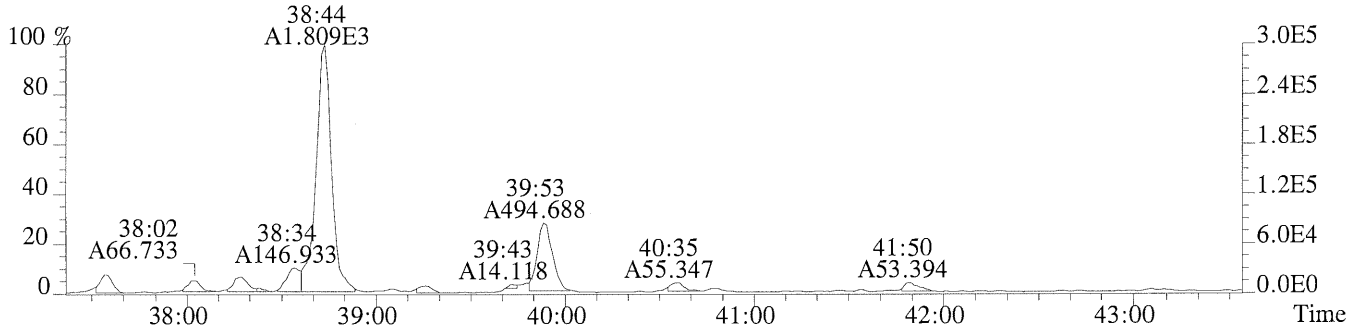


327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)

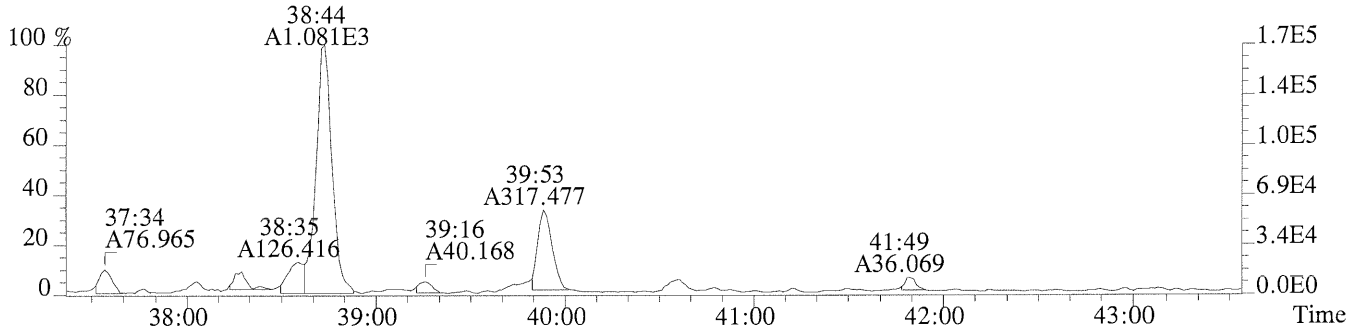


File:U142095 #1-397 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

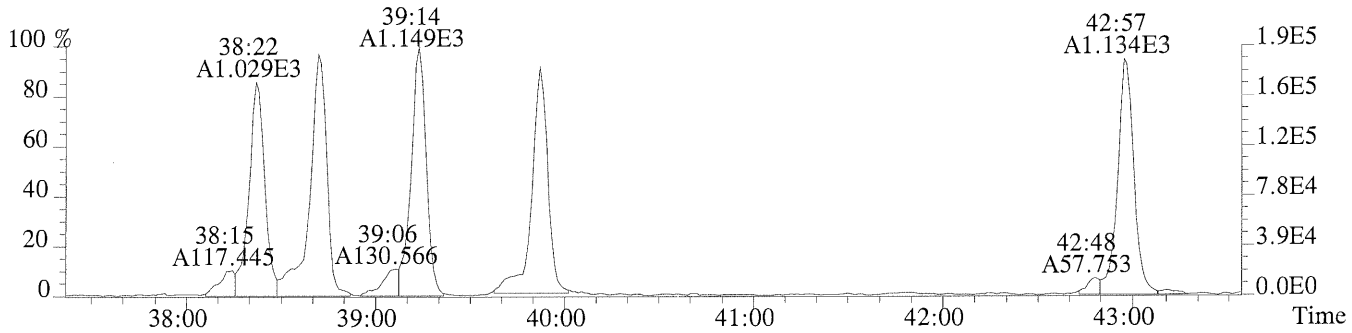
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3584.0,1.00%,F,T)



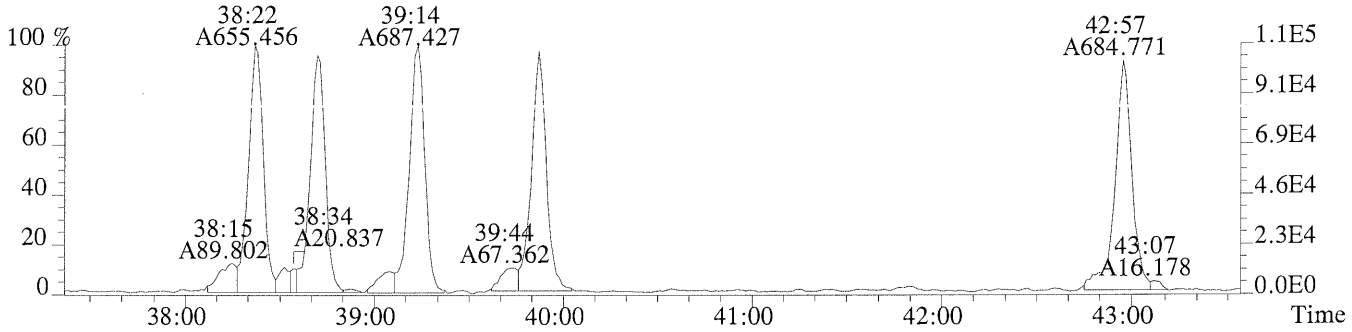
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3628.0,1.00%,F,T)



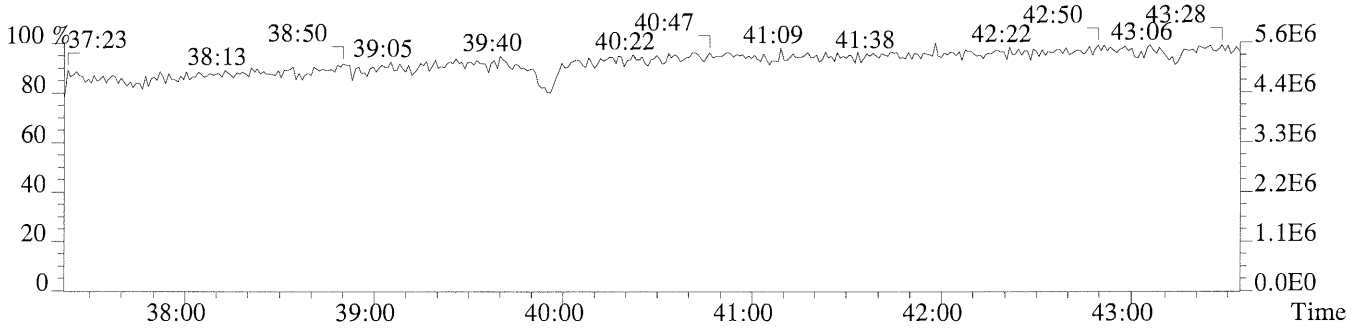
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1412.0,1.00%,F,T)



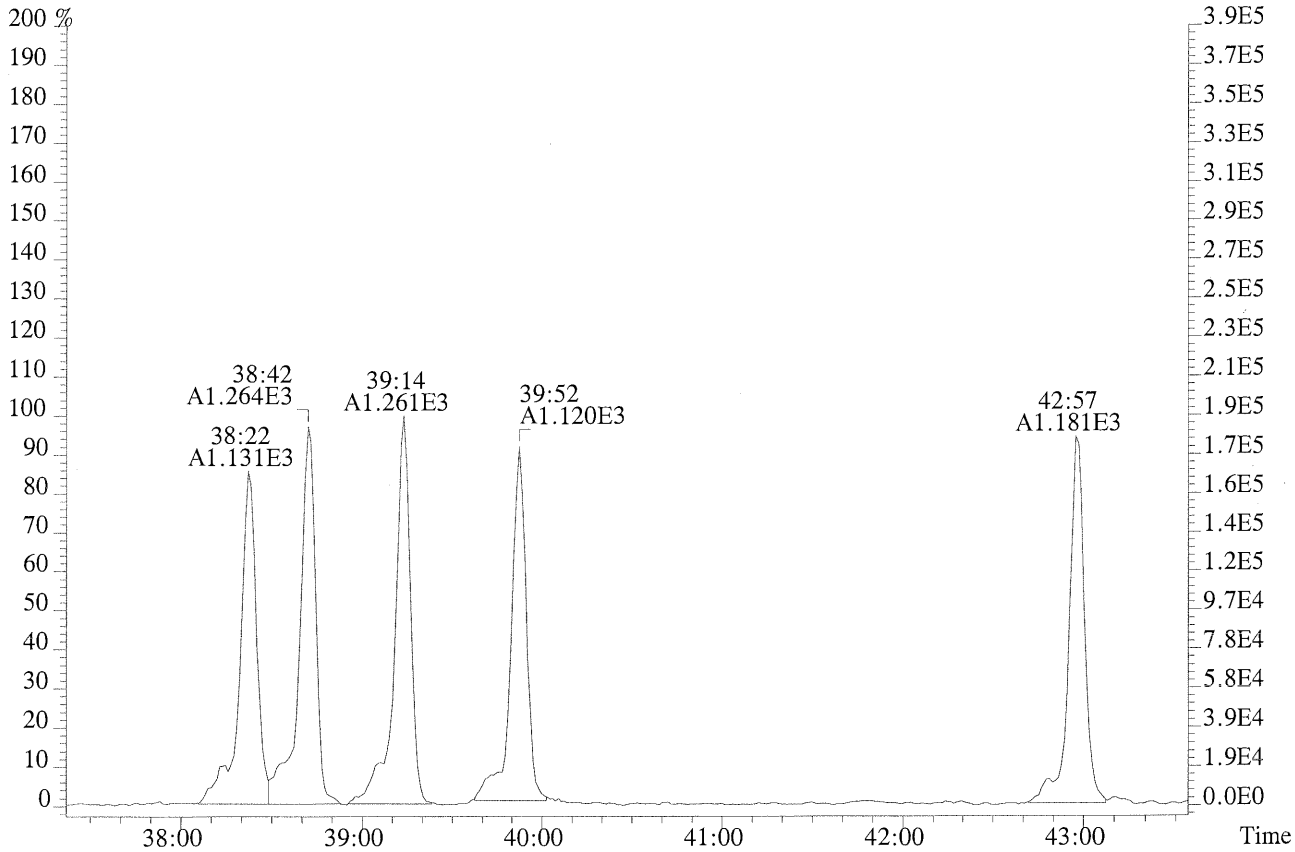
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2216.0,1.00%,F,T)



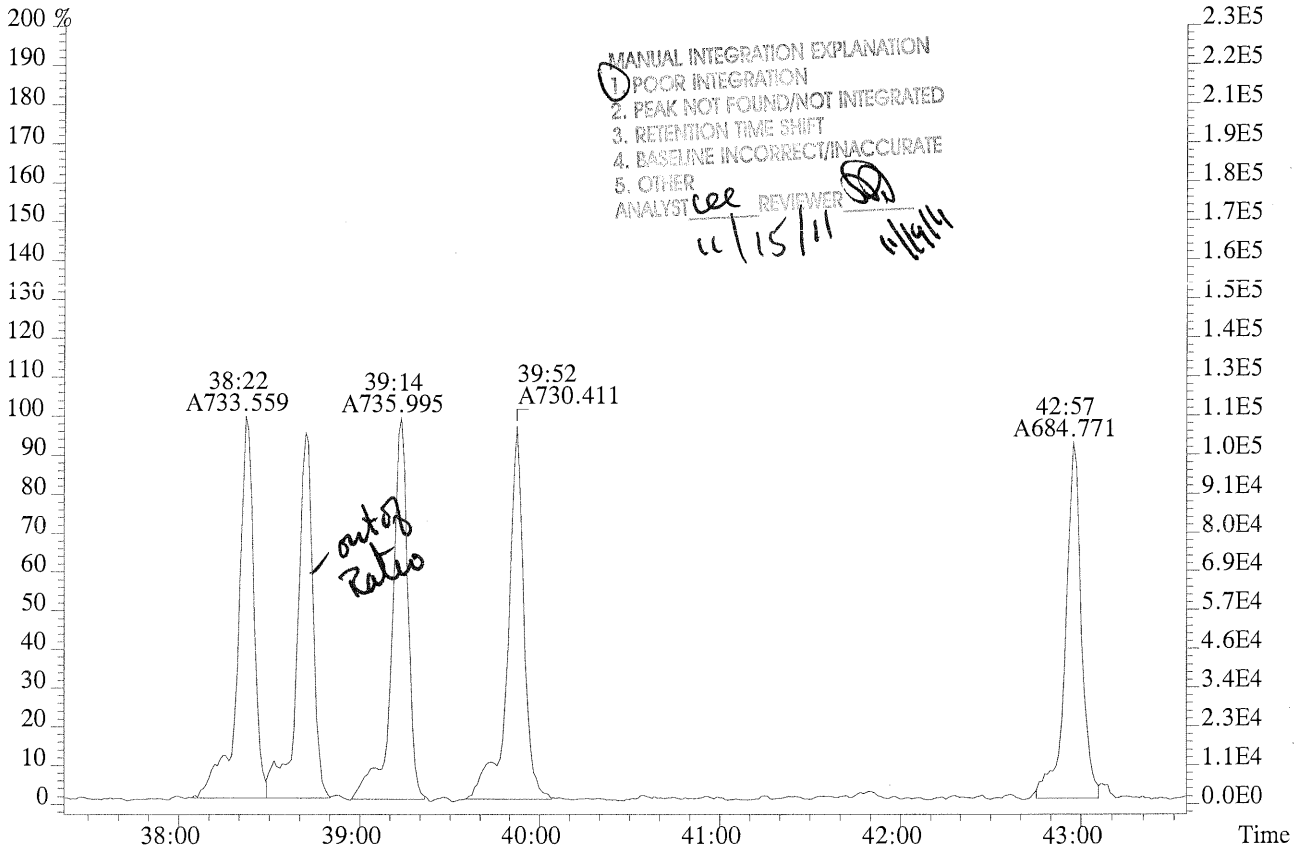
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



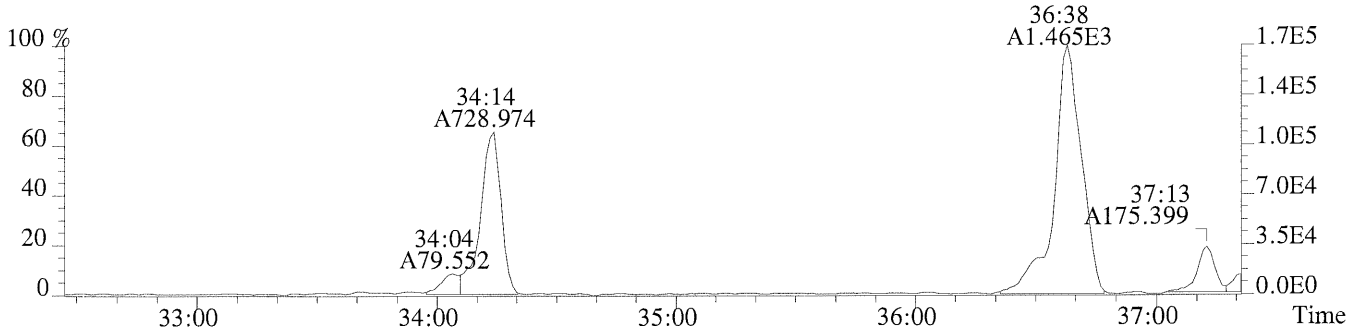
File:U142095 #1-397 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1412.0,1.00%,F,T)



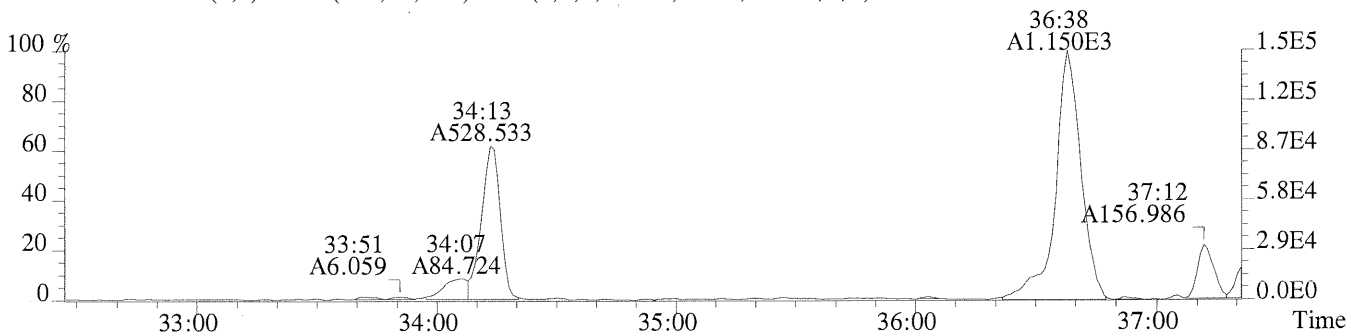
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2216.0,1.00%,F,T)



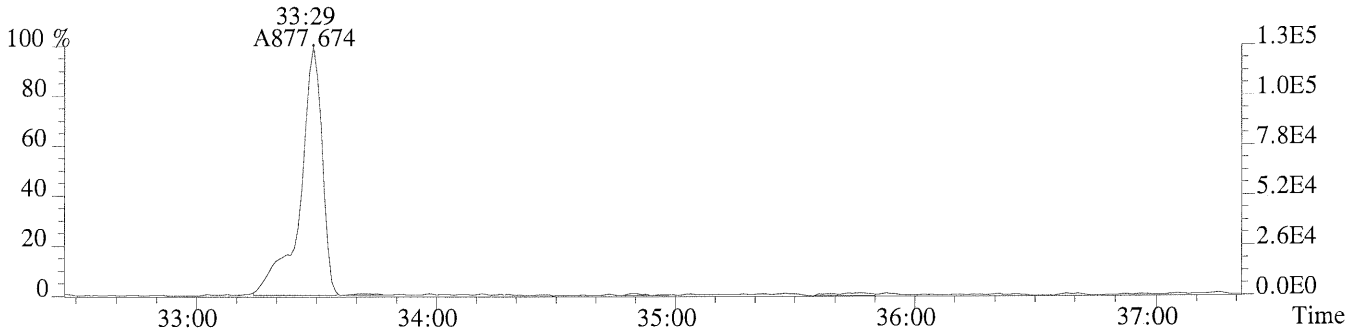
File:U142095 #1-314 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1432.0,1.00%,F,T)



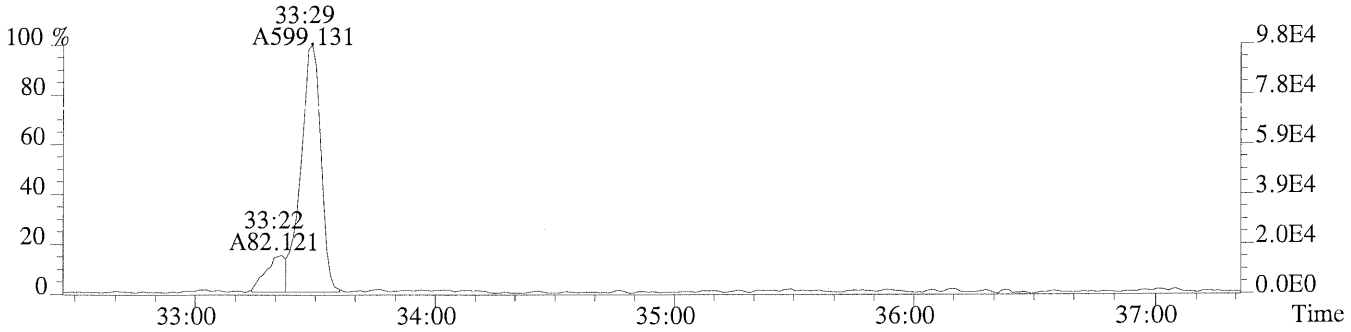
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,956.0,1.00%,F,T)



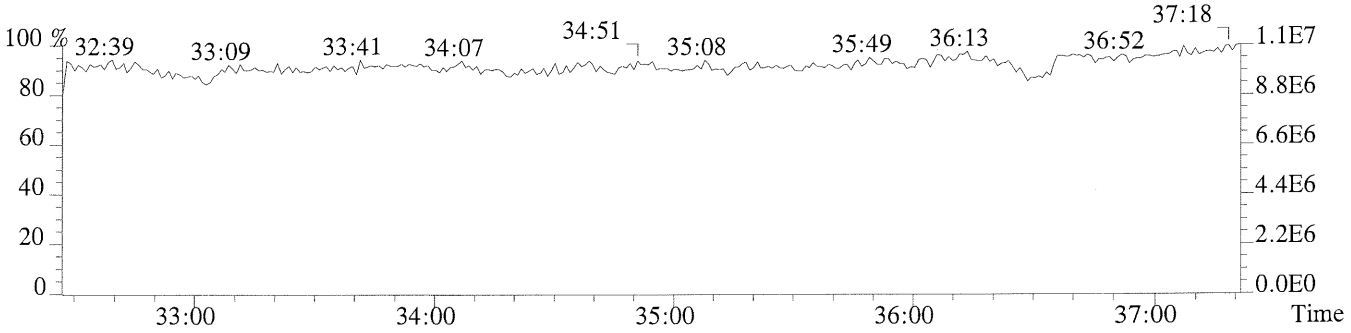
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,736.0,1.00%,F,T)



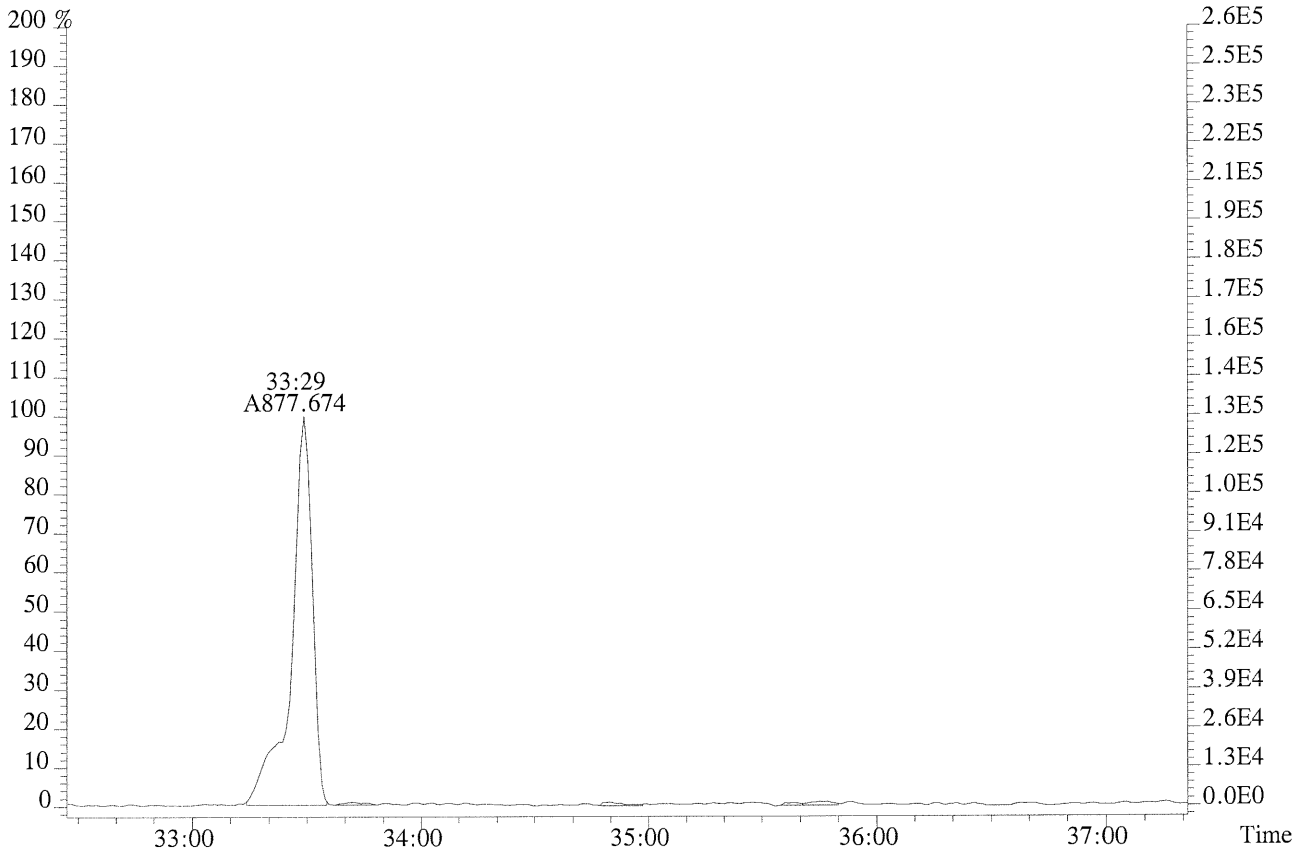
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1304.0,1.00%,F,T)



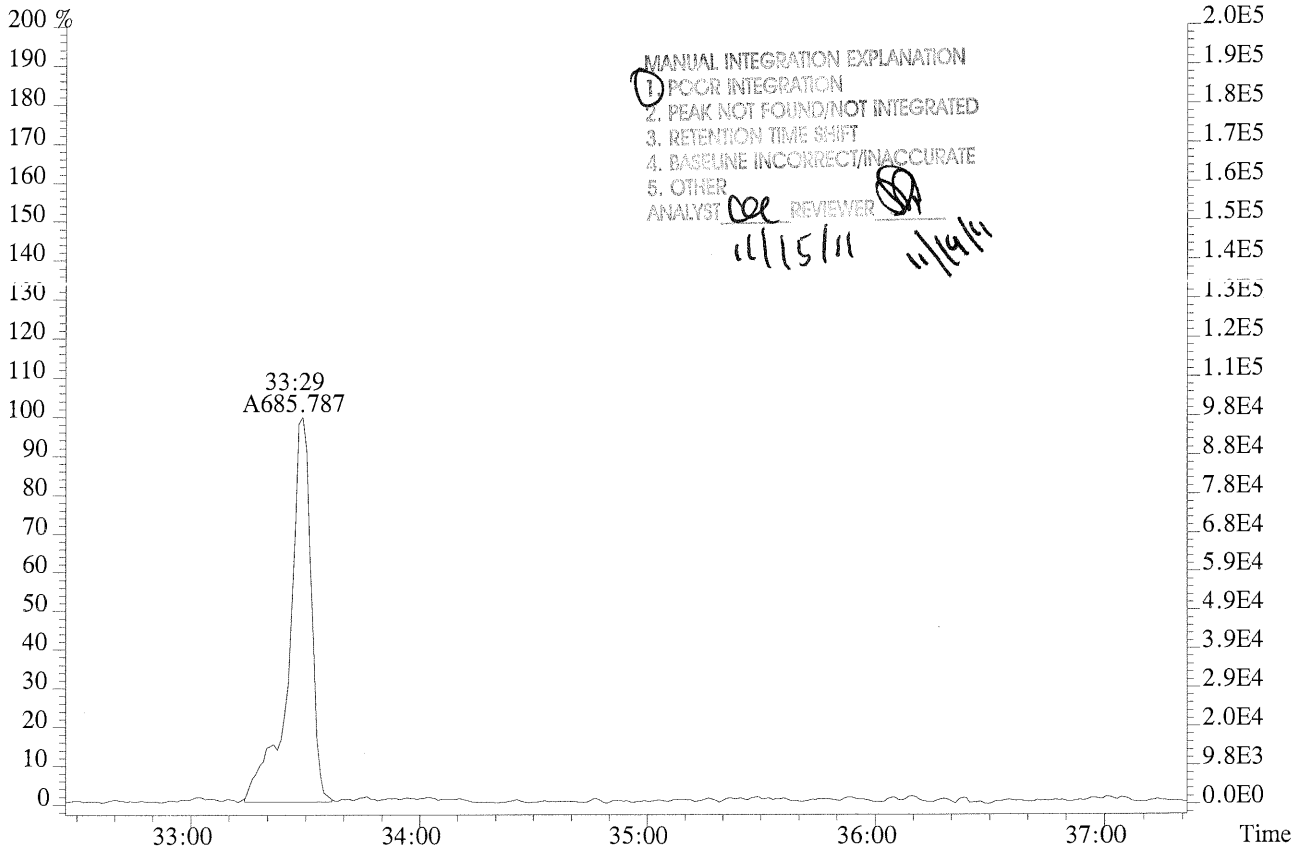
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142095 #1-314 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,736.0,1.00%,F,T)

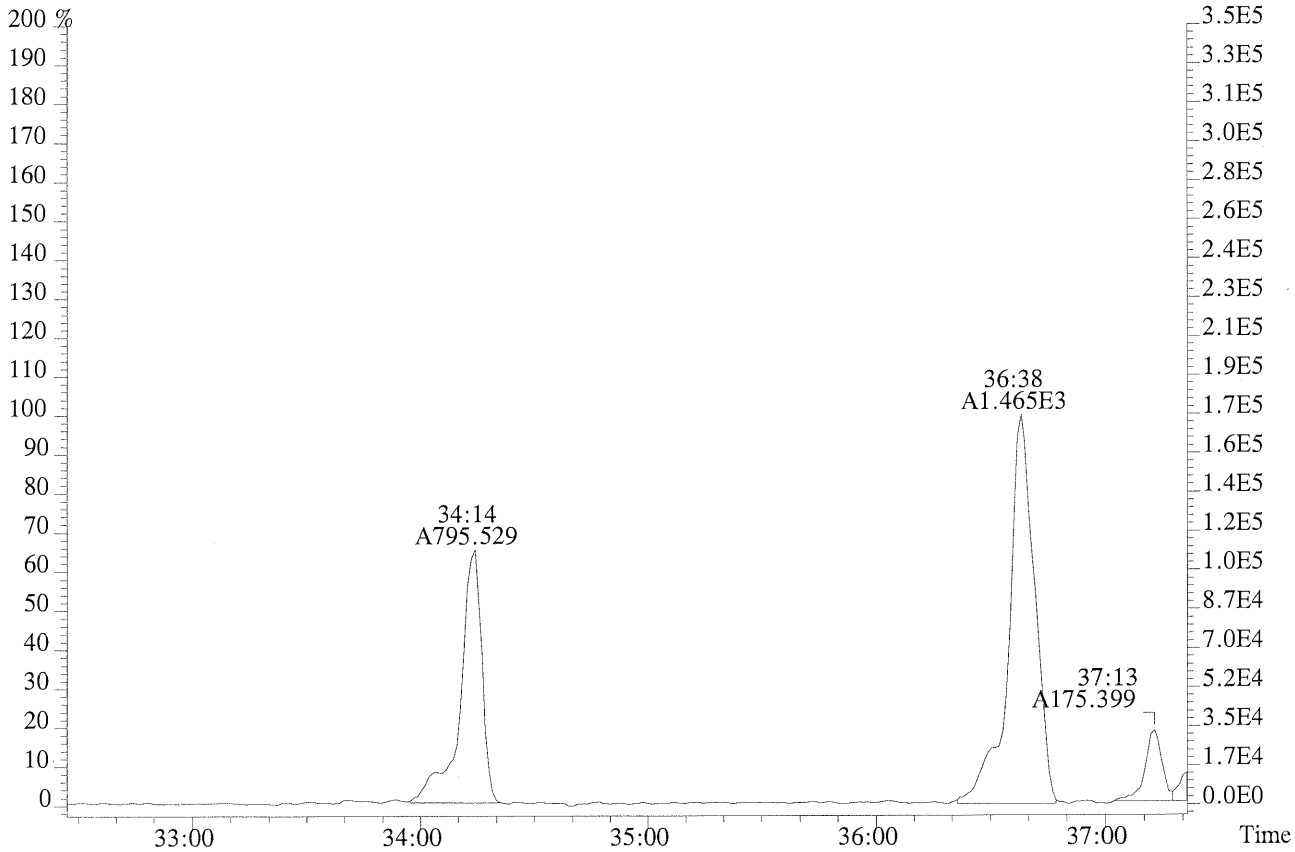


373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1304.0,1.00%,F,T)

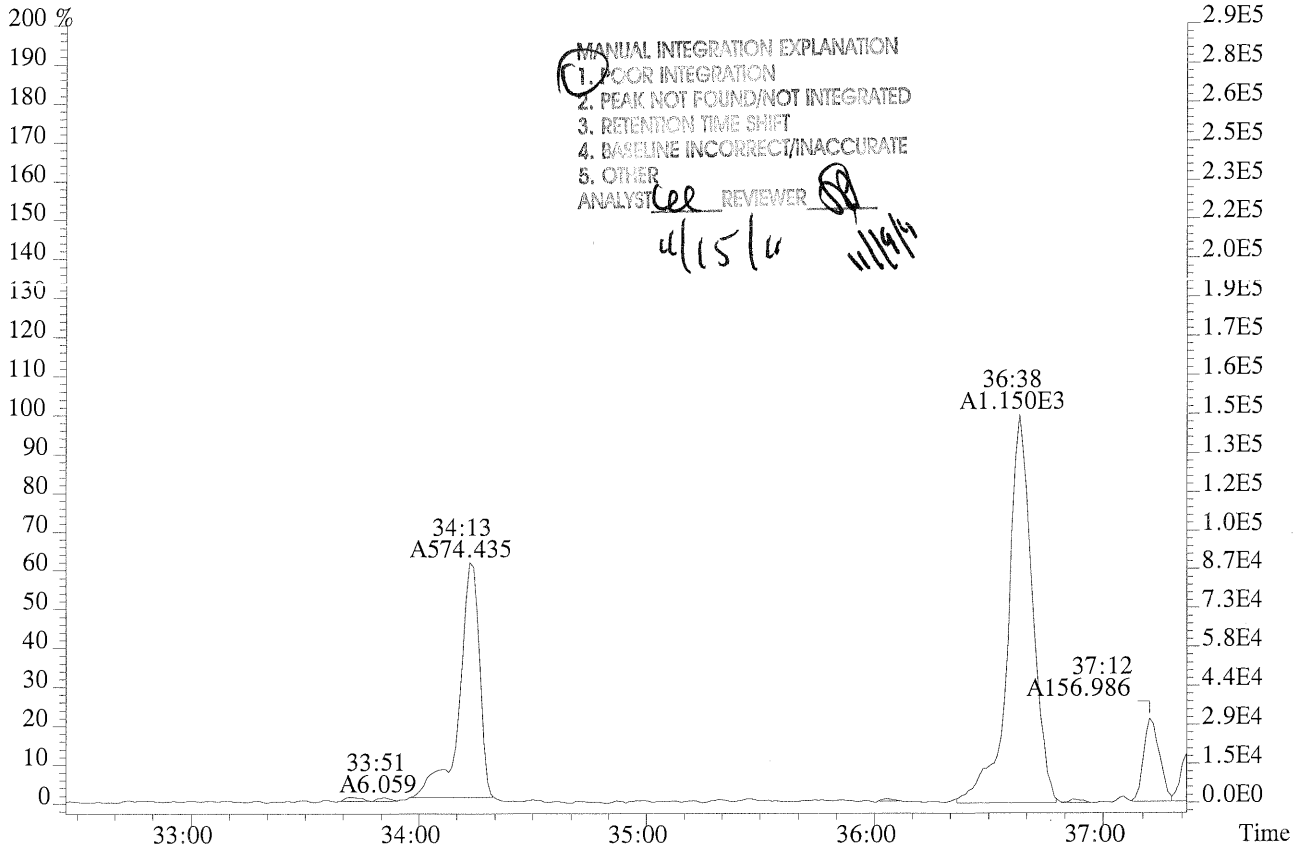


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CCL REVIEWER SA
11/15/11 11/19/11

File:U142095 #1-314 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1432.0,1.00%,F,T)

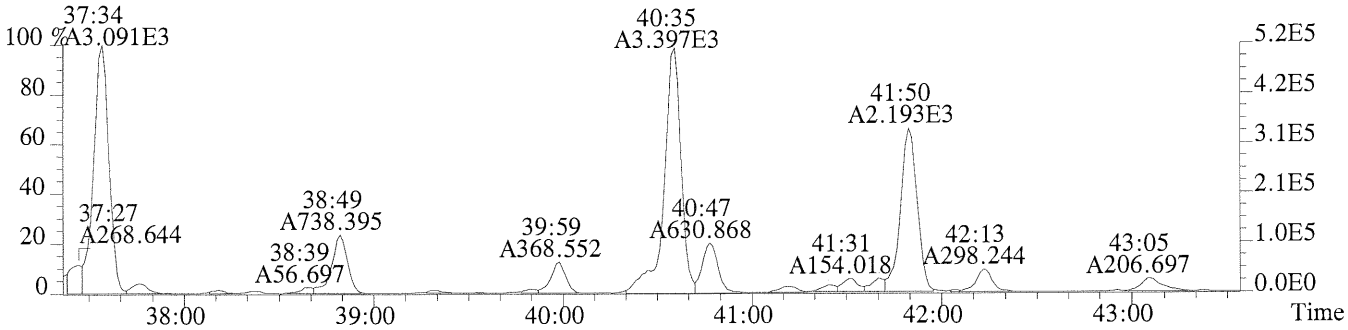


361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,956.0,1.00%,F,T)

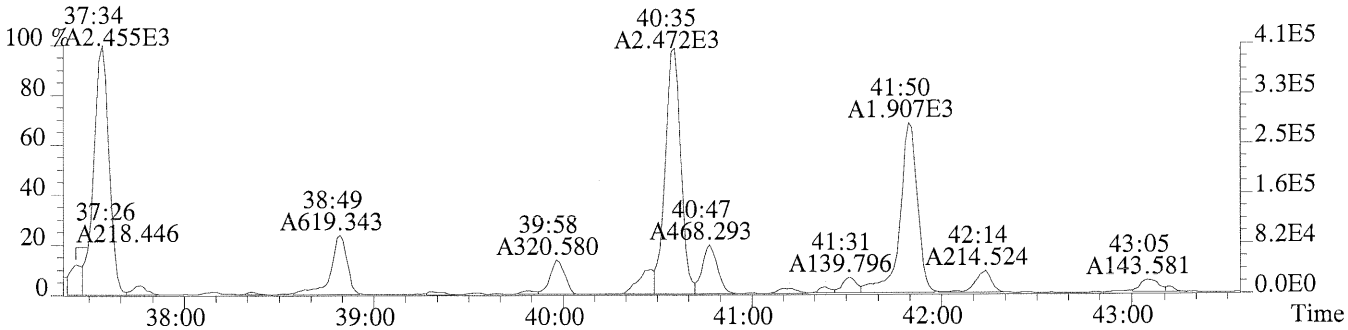


File:U142095 #1-397 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

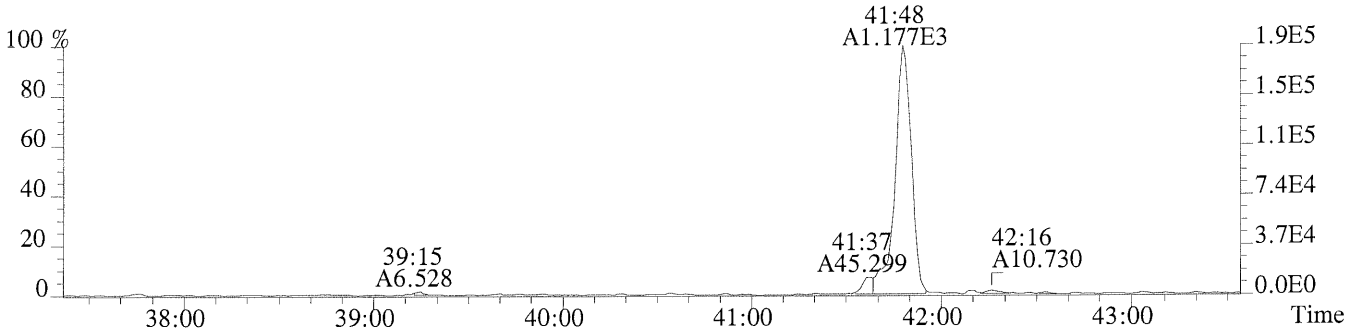
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2016.0,1.00%,F,T)



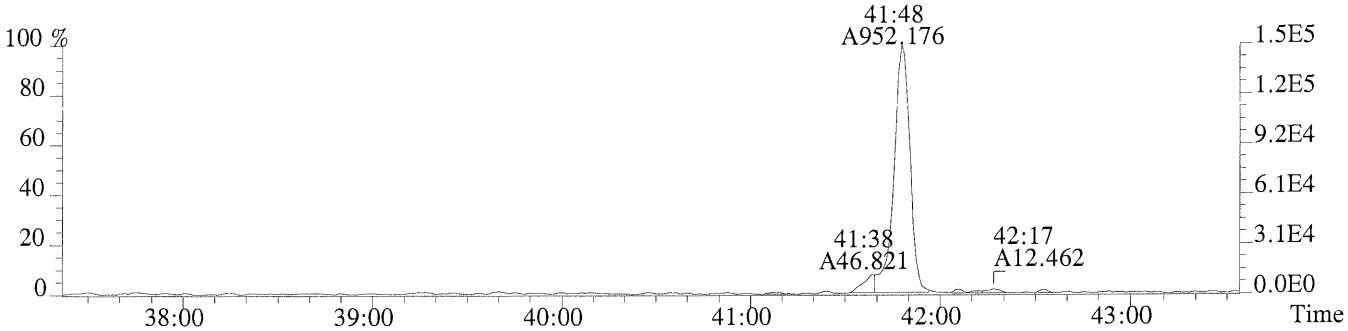
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1800.0,1.00%,F,T)



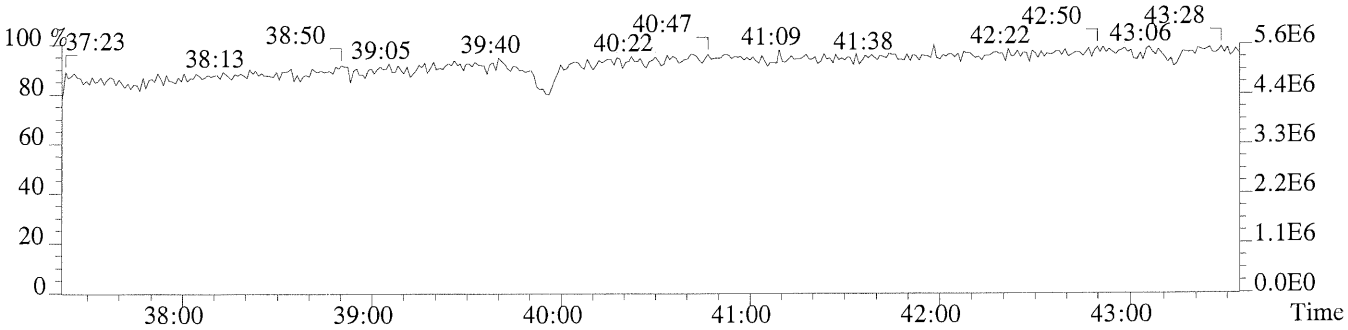
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,988.0,1.00%,F,T)



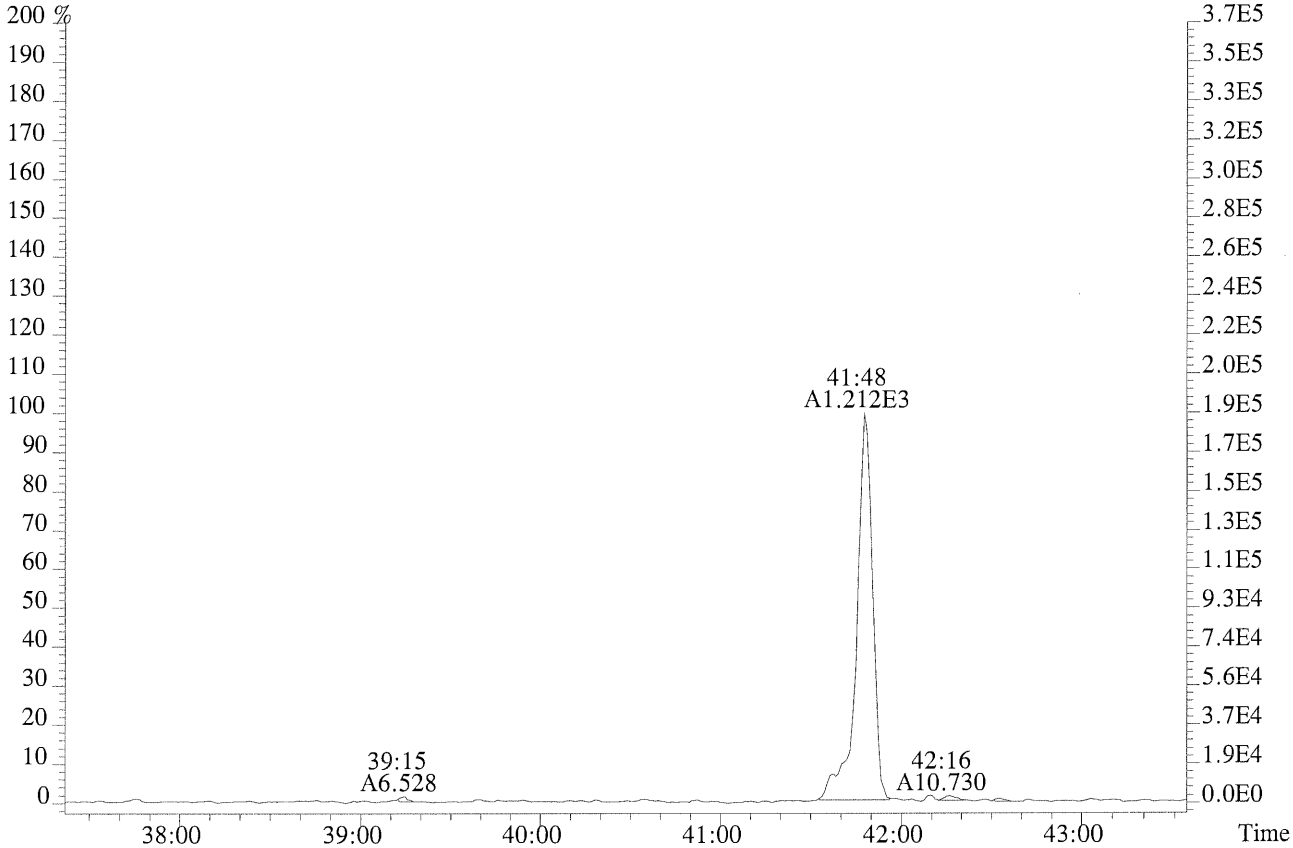
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1140.0,1.00%,F,T)



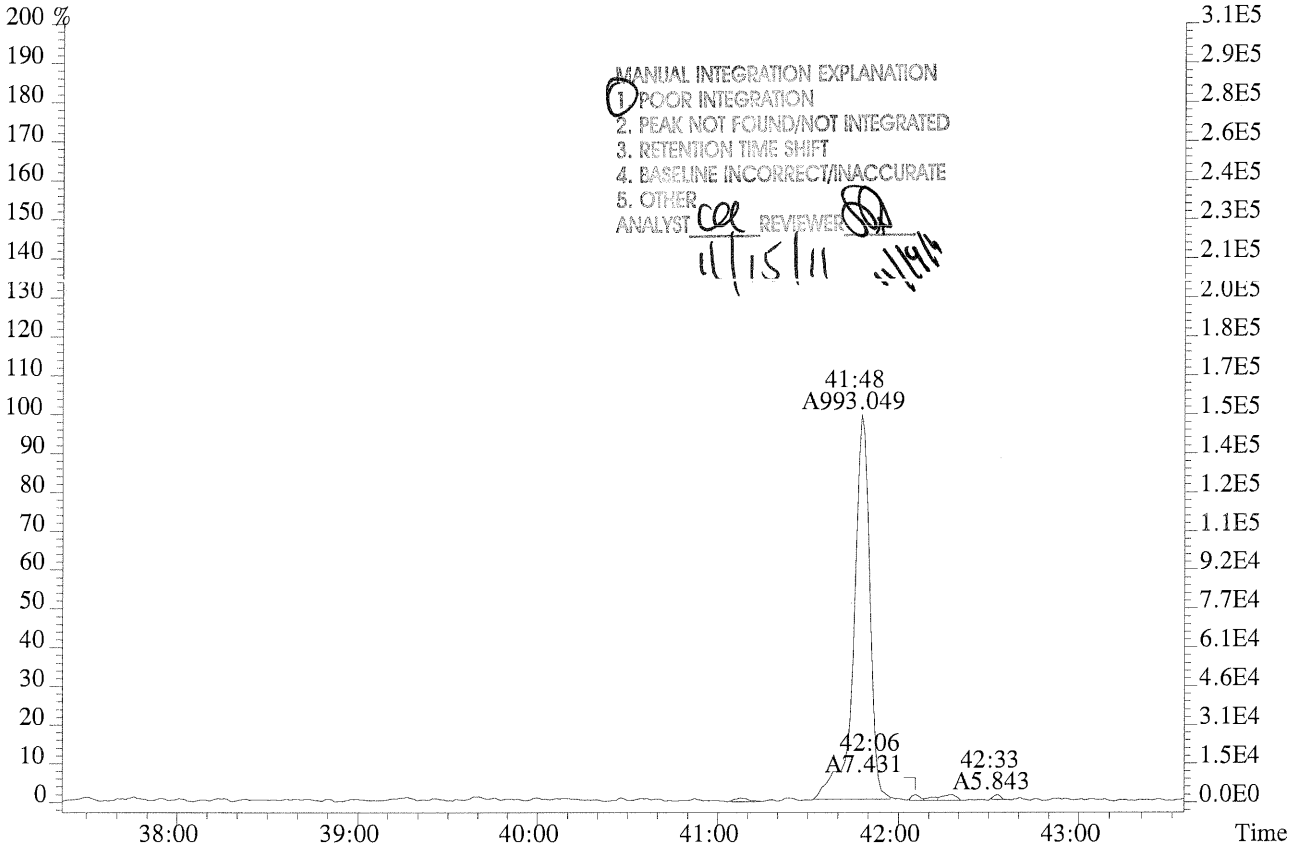
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



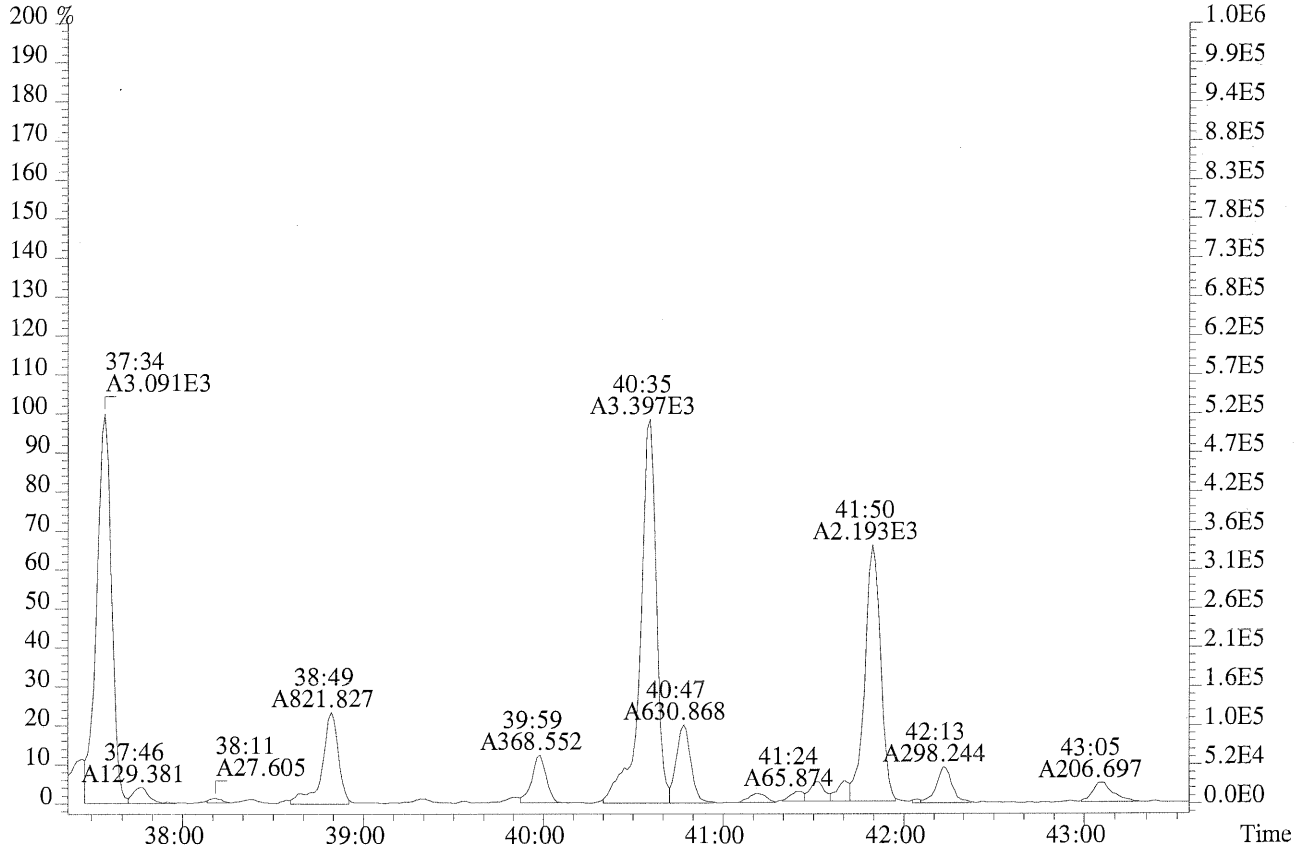
File:U142095 #1-397 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,988.0,1.00%,F,T)



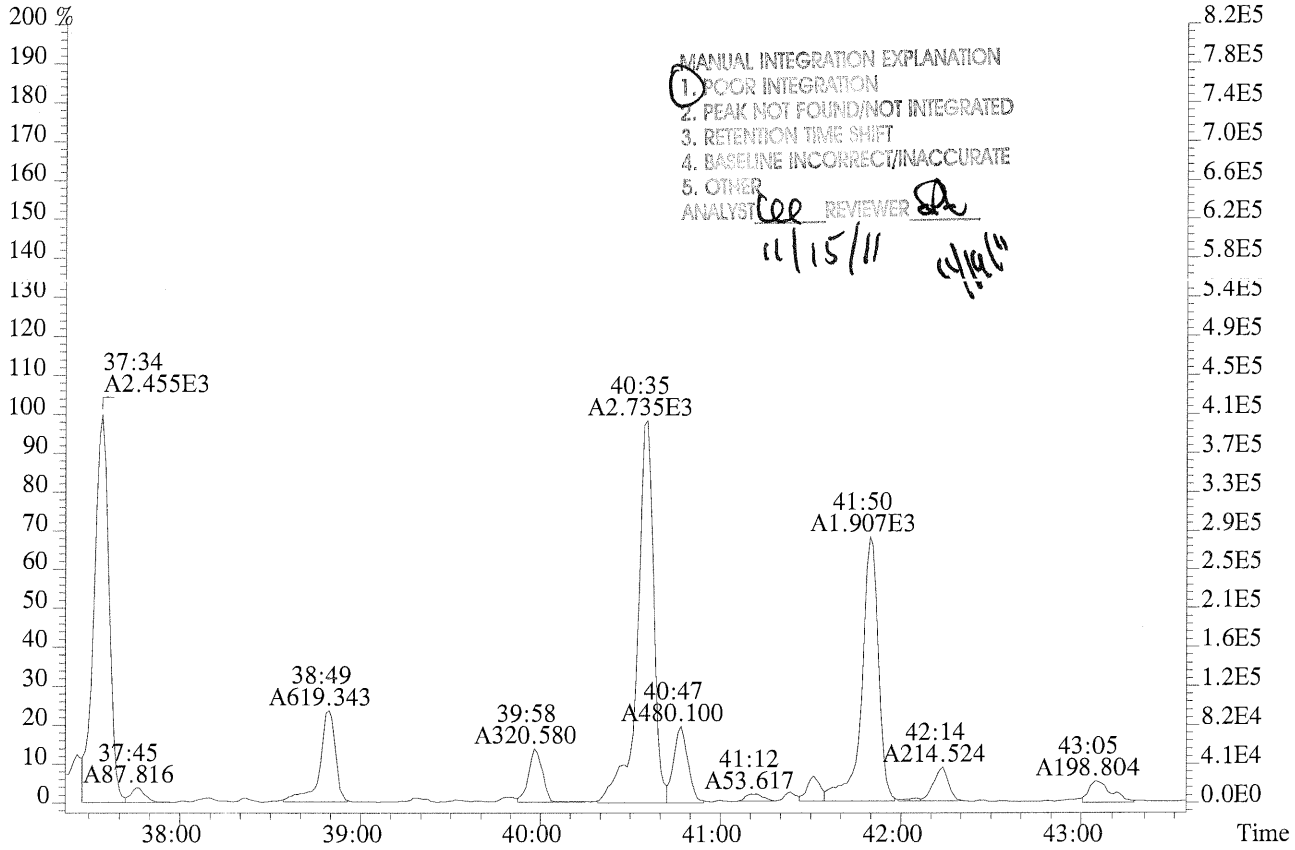
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1140.0,1.00%,F,T)



File:U142095 #1-397 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2016.0,1.00%,F,T)

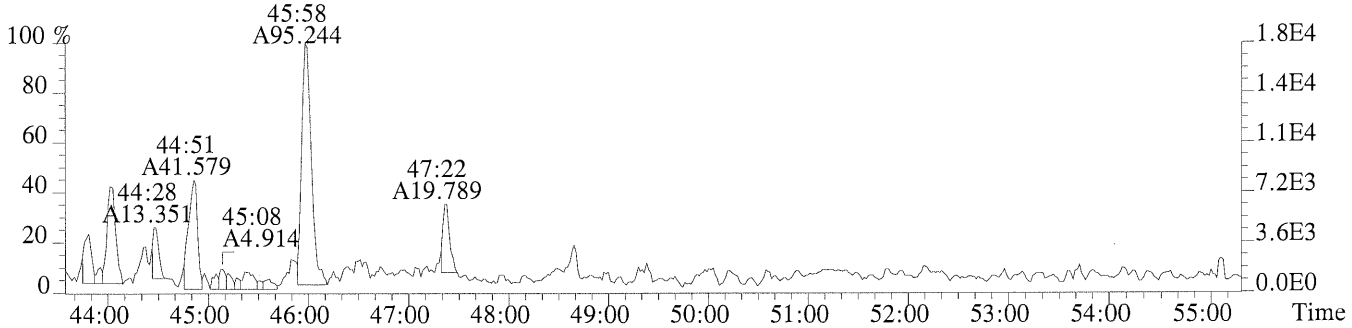


361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1800.0,1.00%,F,T)

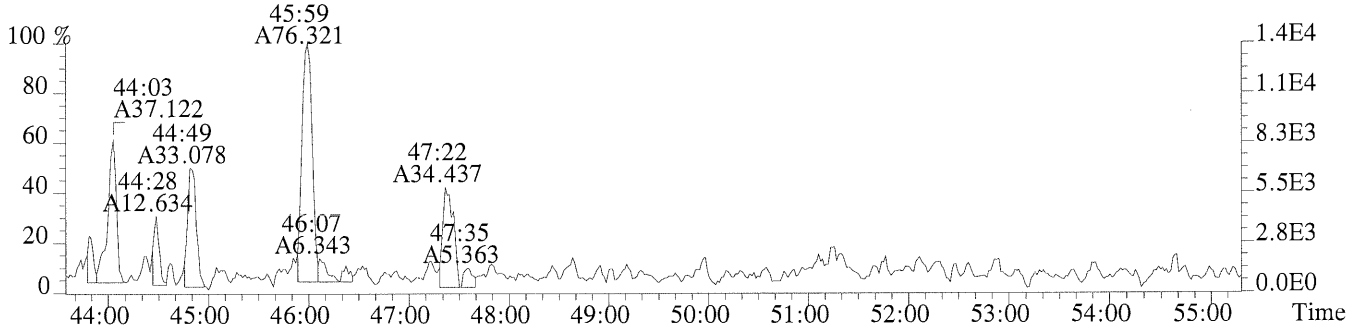


File:U142095 #1-581 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

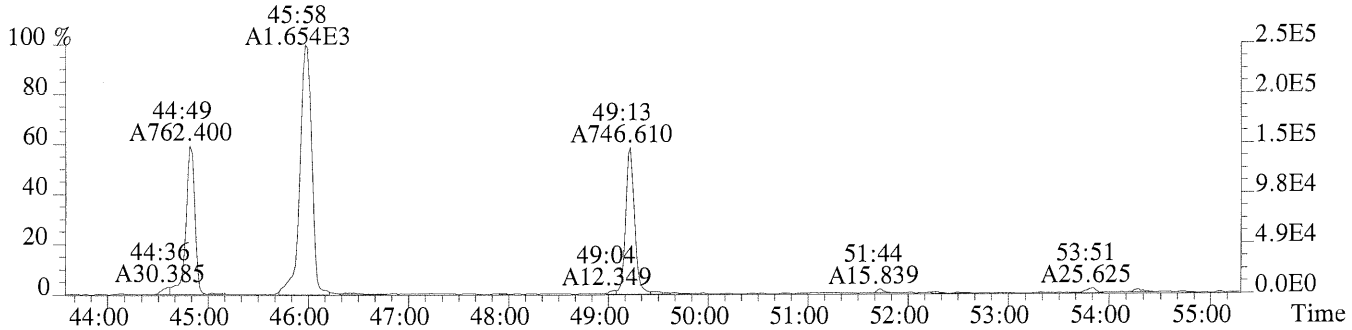
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1620.0,1.00%,F,T)



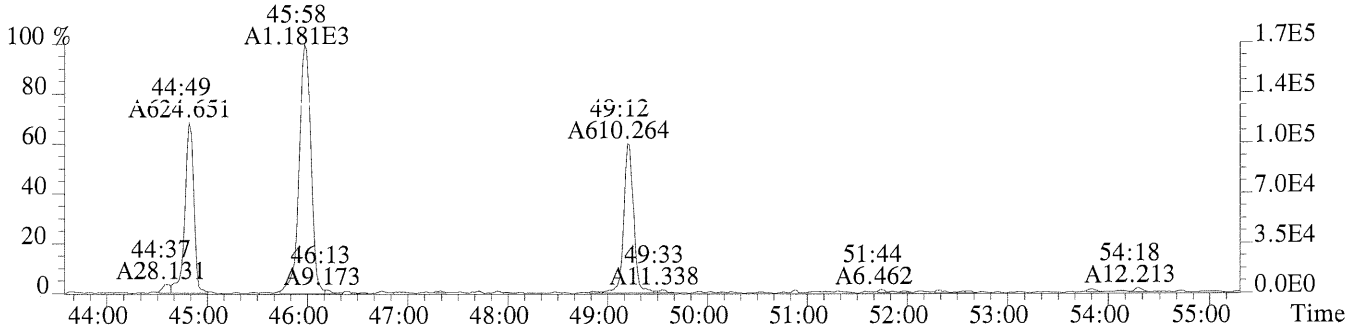
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1388.0,1.00%,F,T)



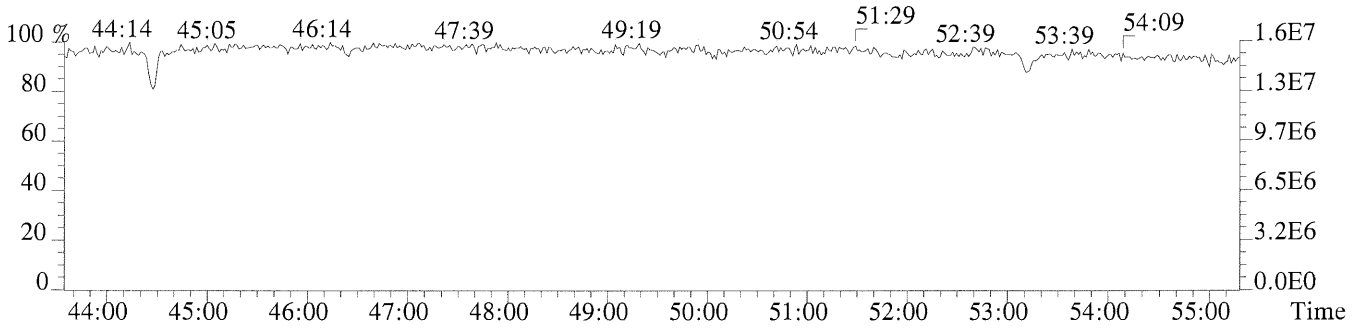
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,596.0,1.00%,F,T)



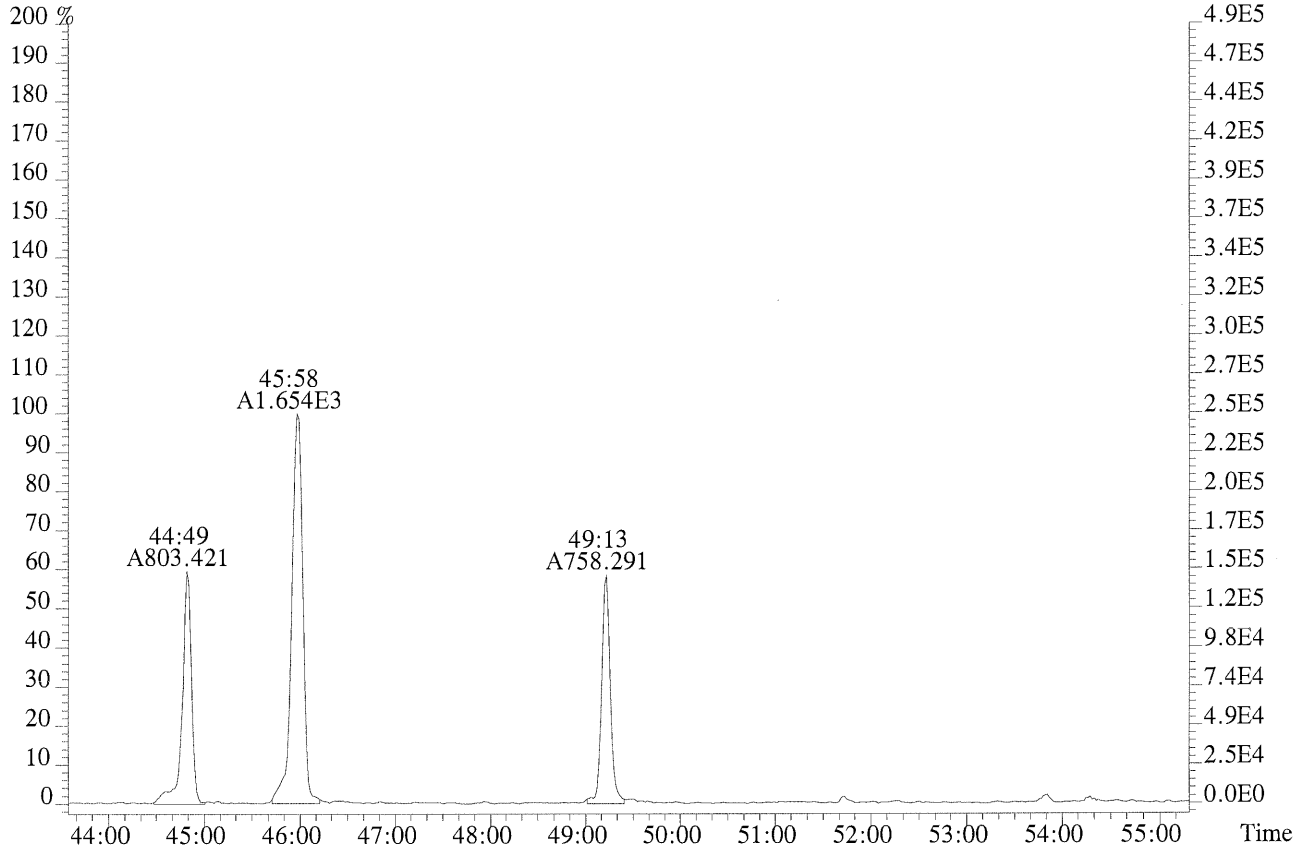
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



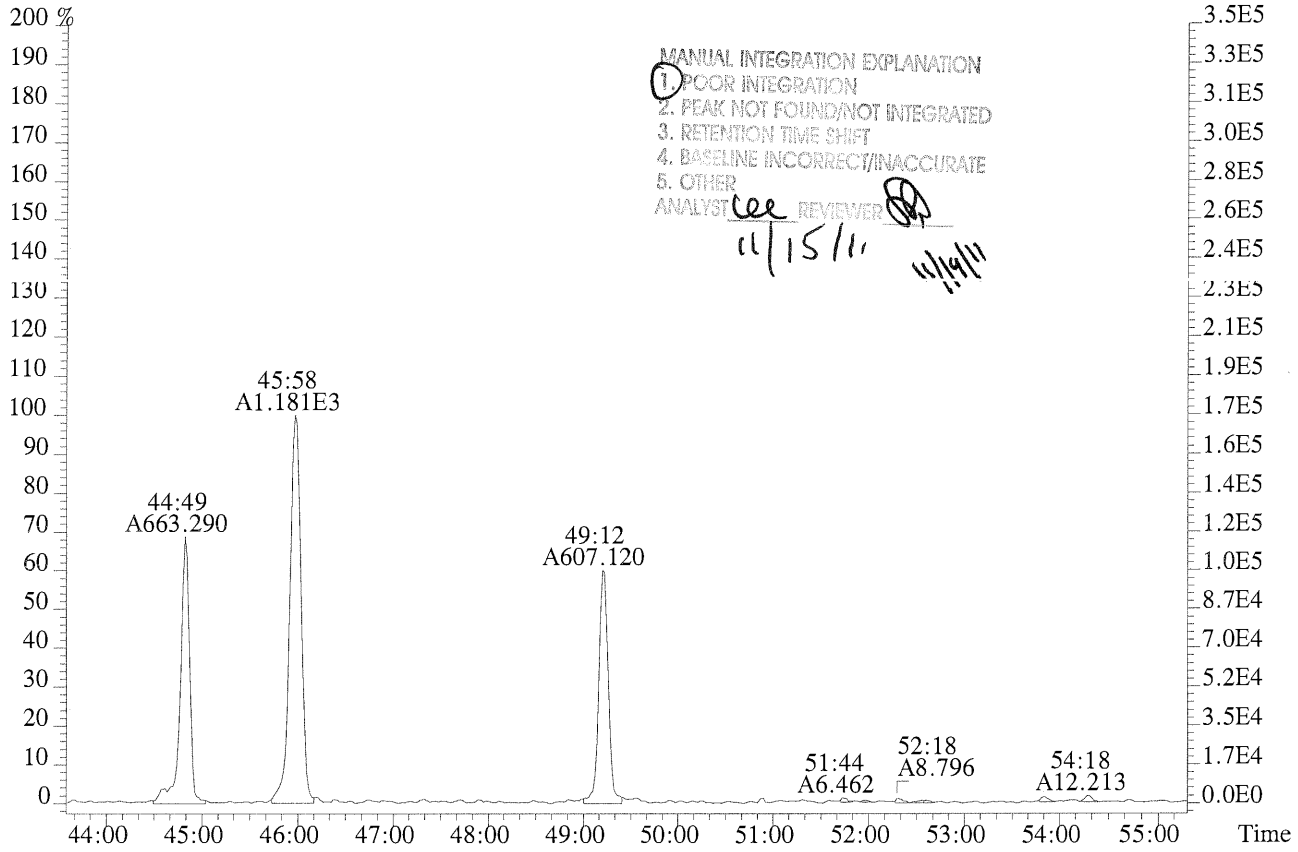
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



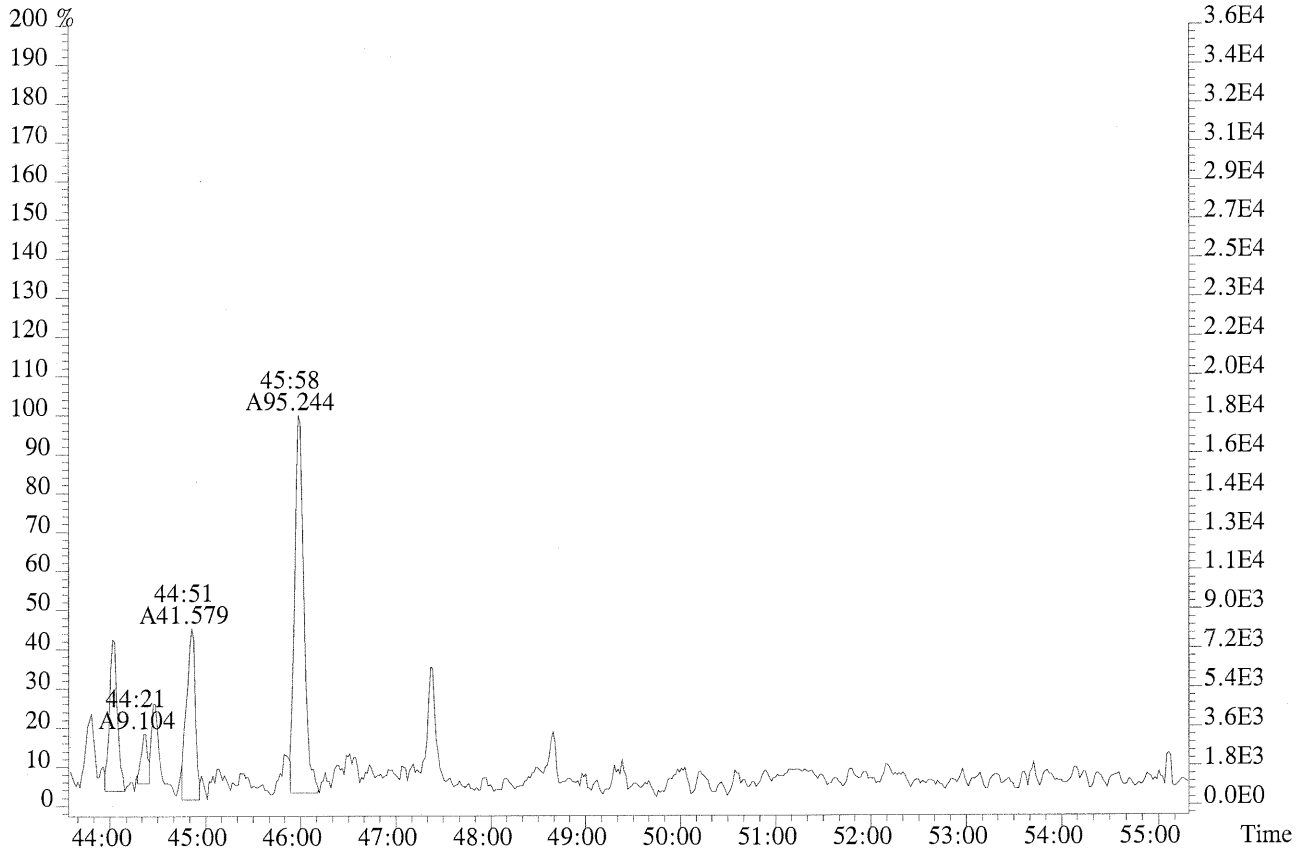
File:U142095 #1-581 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,596.0,1.00%,F,T)



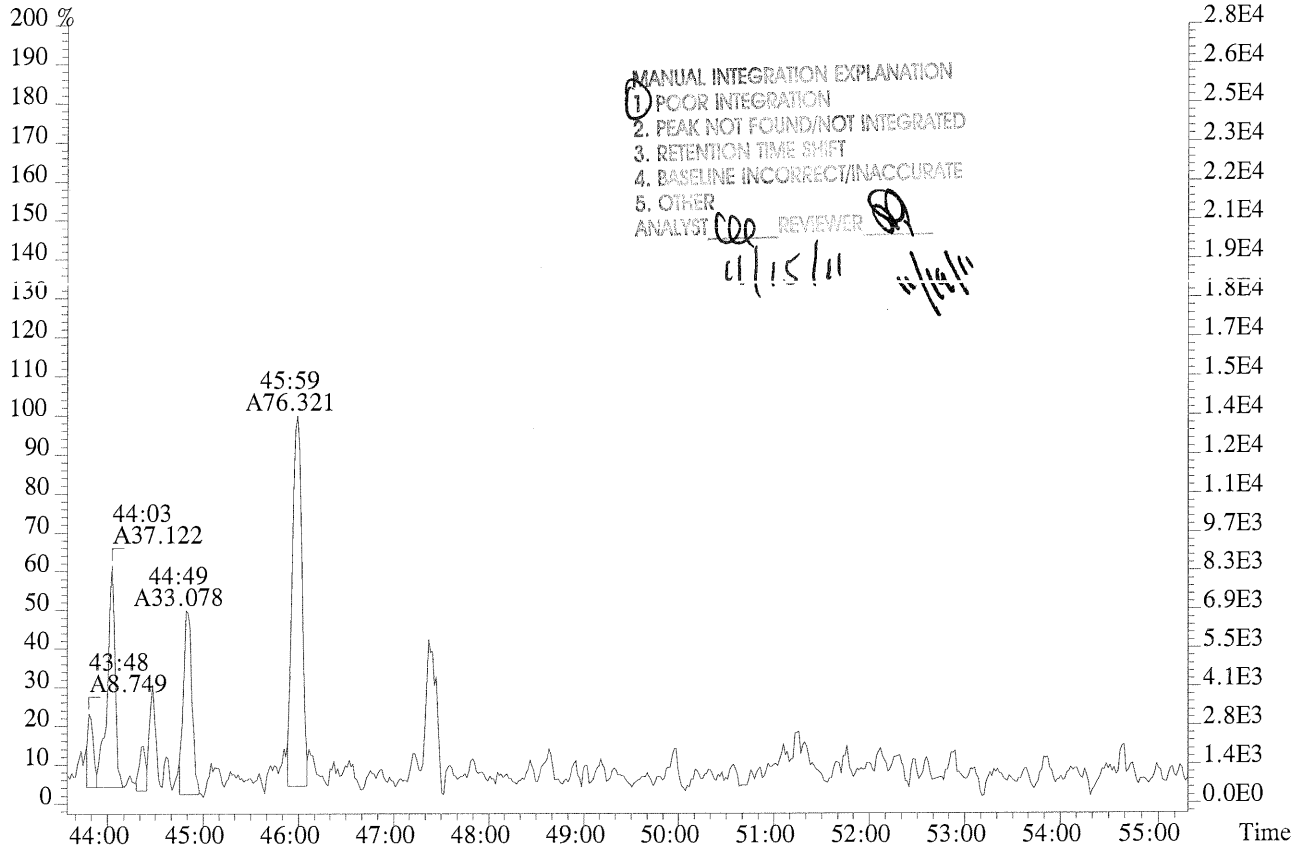
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



File:U142095 #1-581 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1620.0,1.00%,F,T)

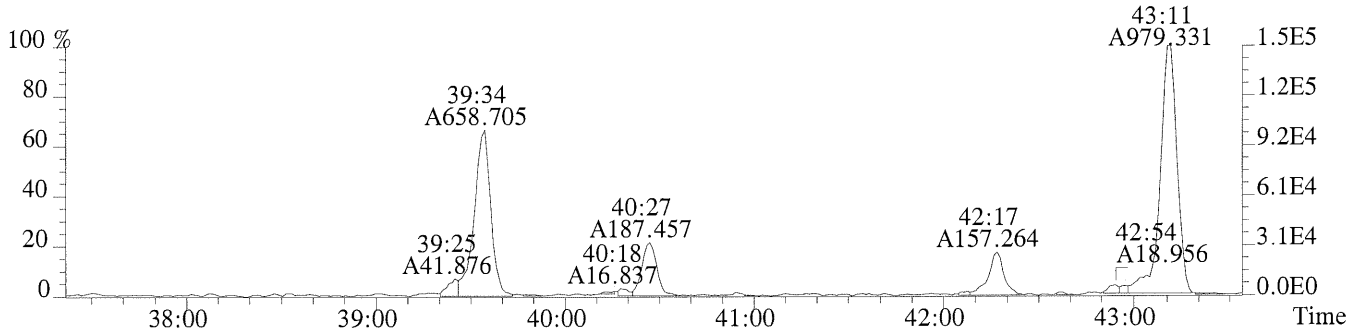


361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1388.0,1.00%,F,T)

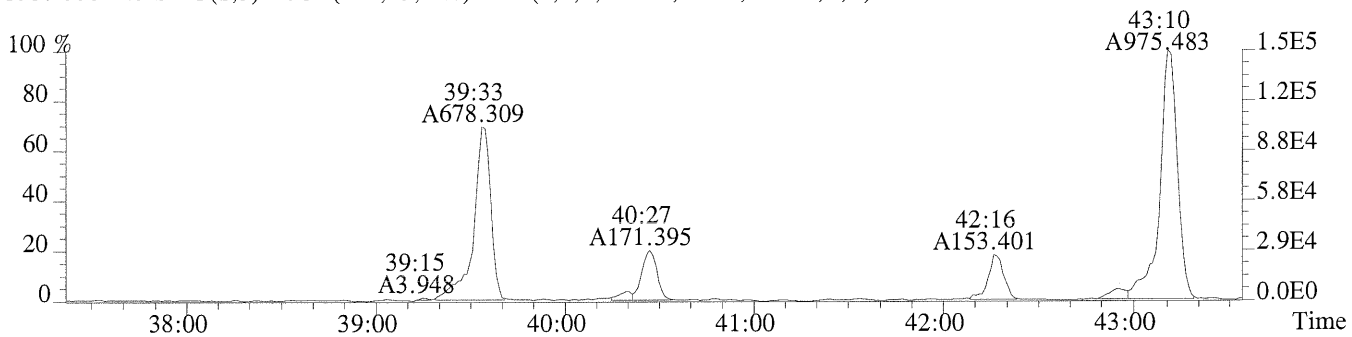


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CCC REVIEWER
11/15/11

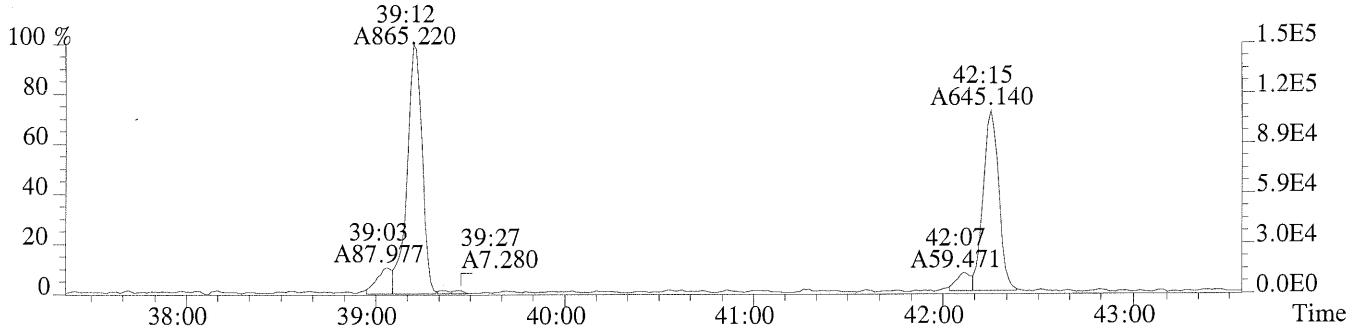
File:U142095 #1-397 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)



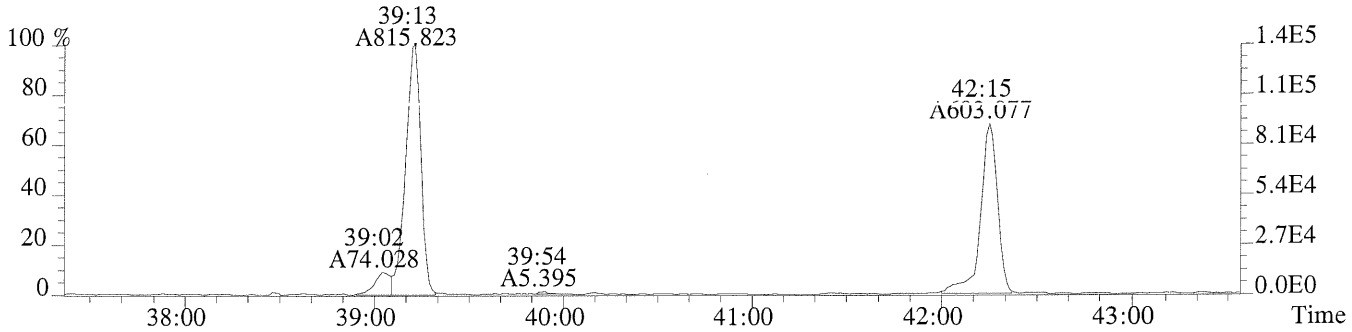
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)



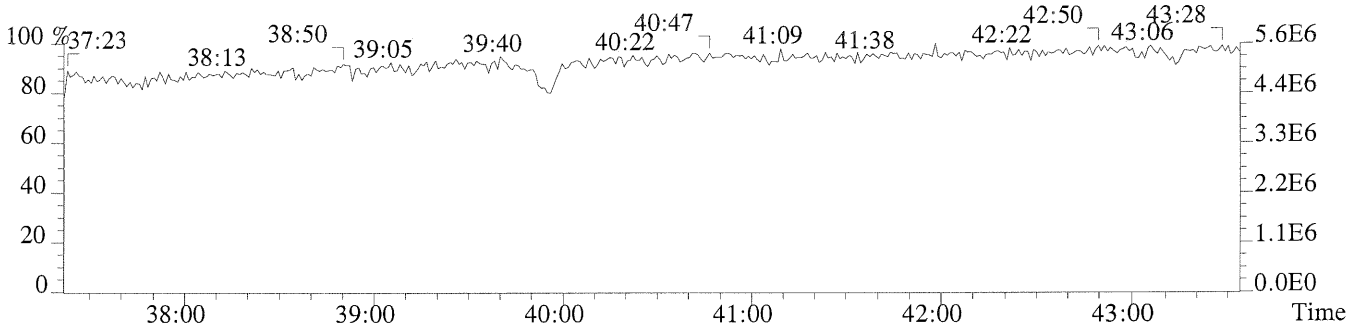
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1688.0,1.00%,F,T)



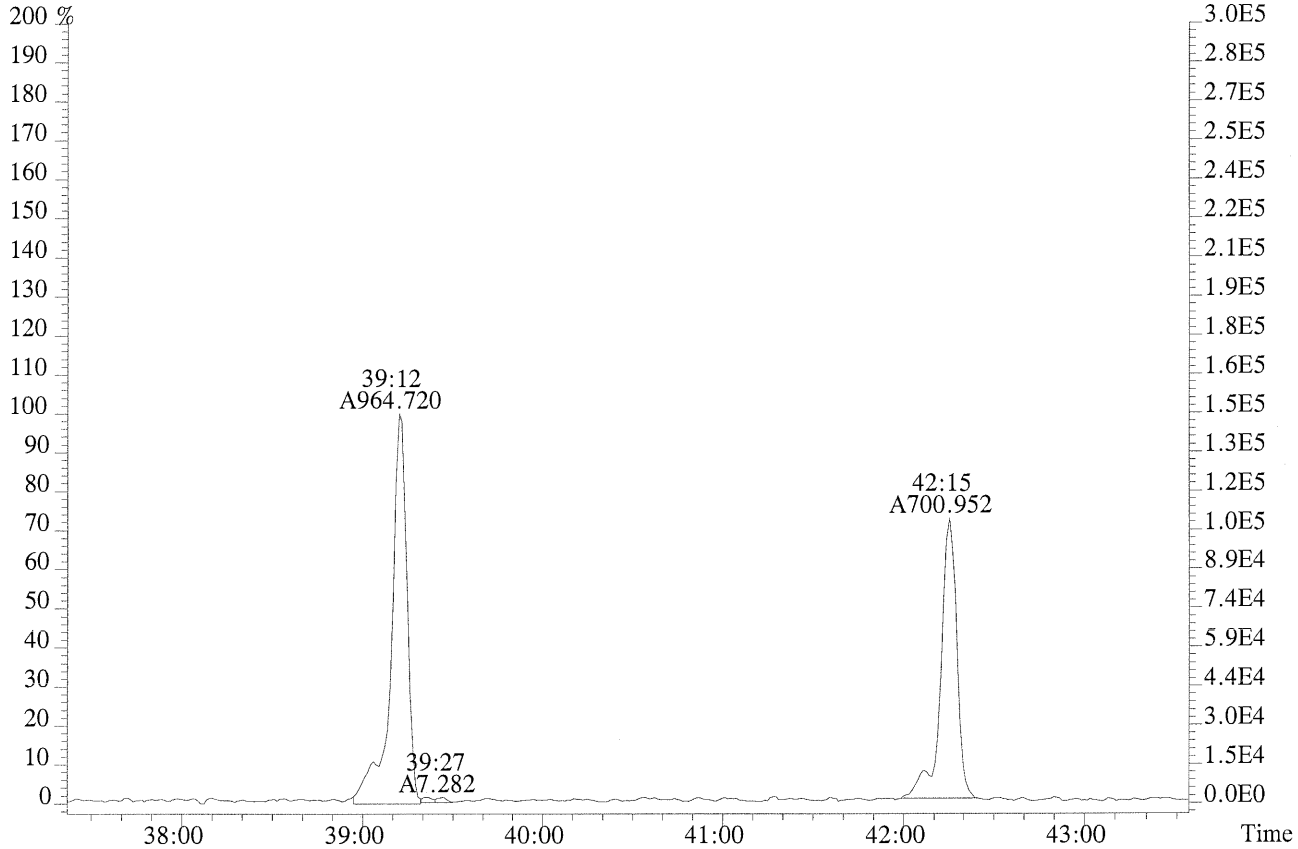
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,744.0,1.00%,F,T)



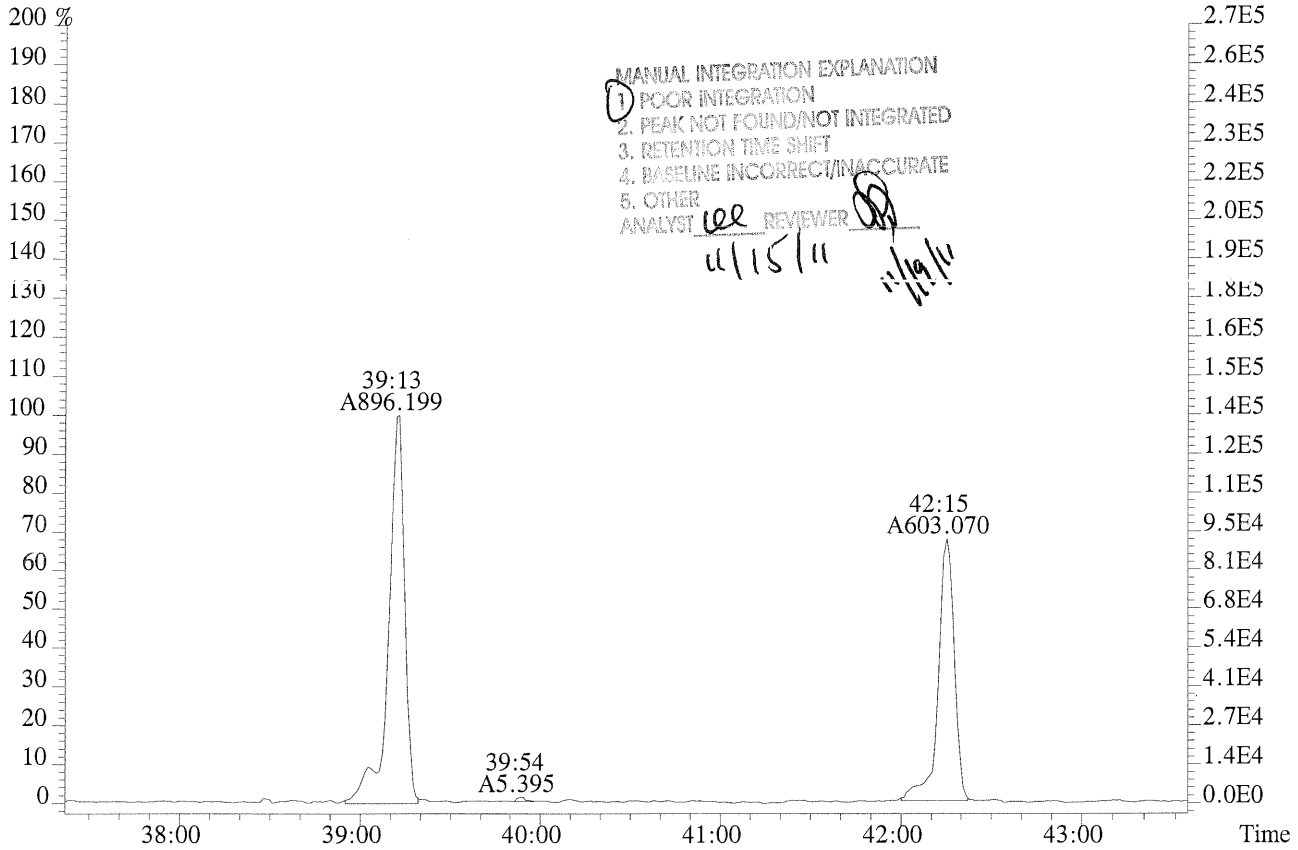
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142095 #1-397 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0)

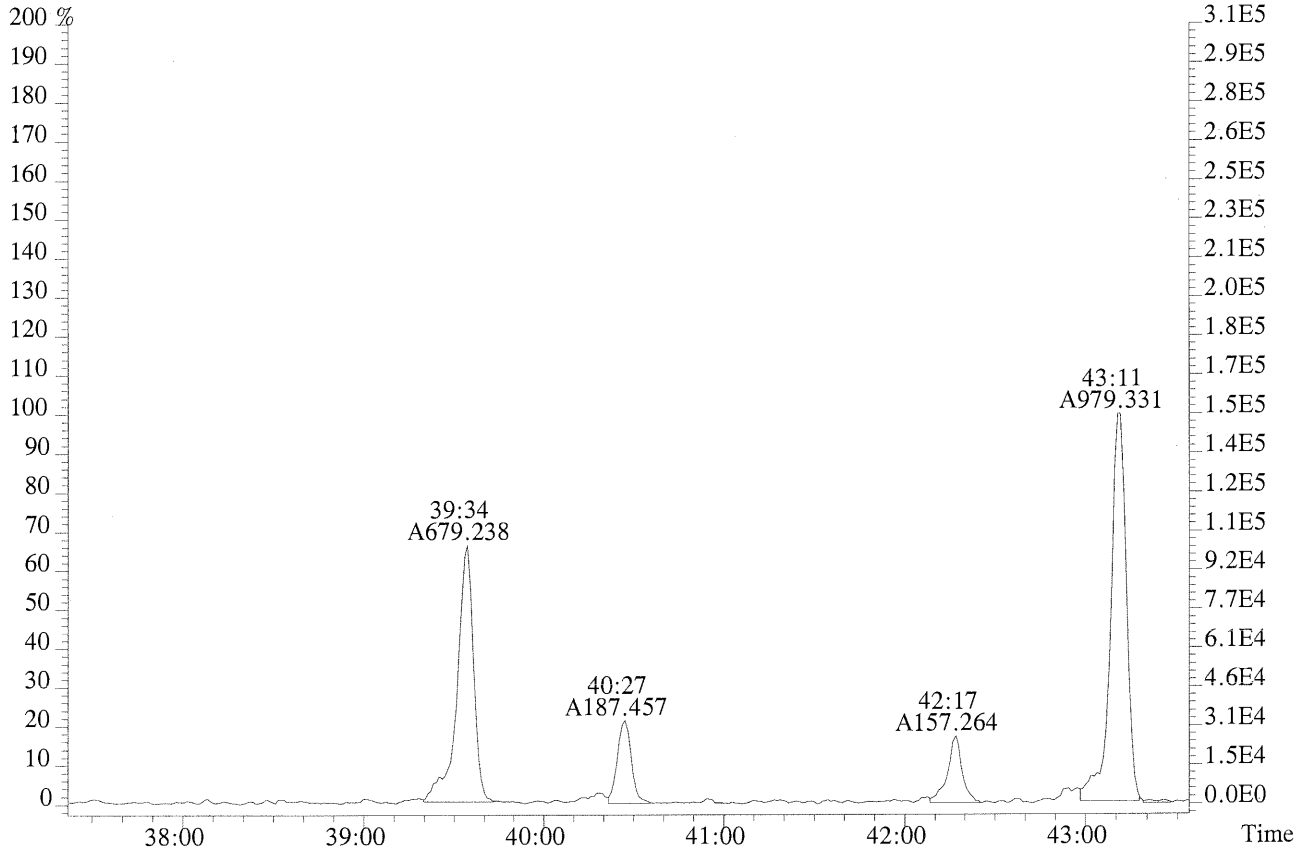


407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0)

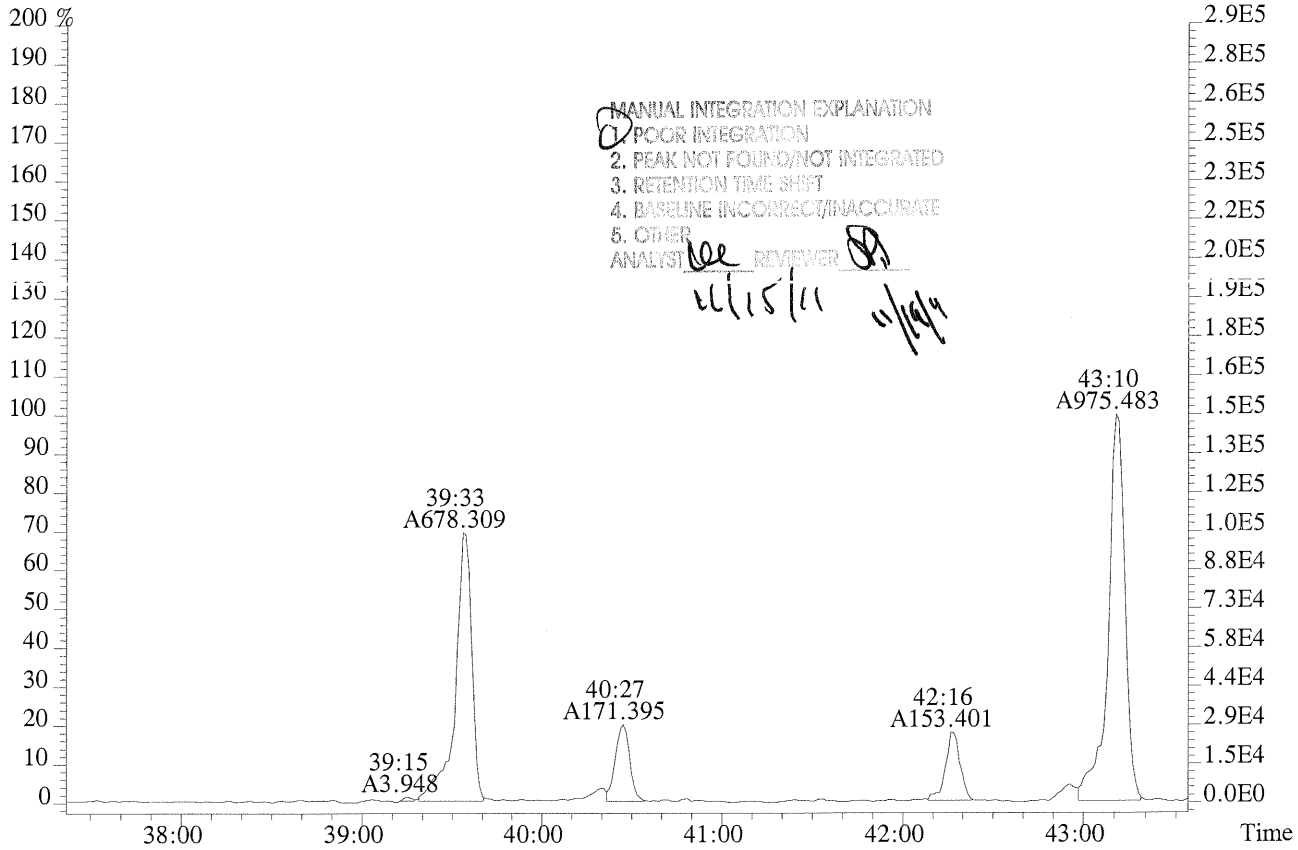


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST lee REVIEWER
11/15/11 11/19/11

File:U142095 #1-397 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)

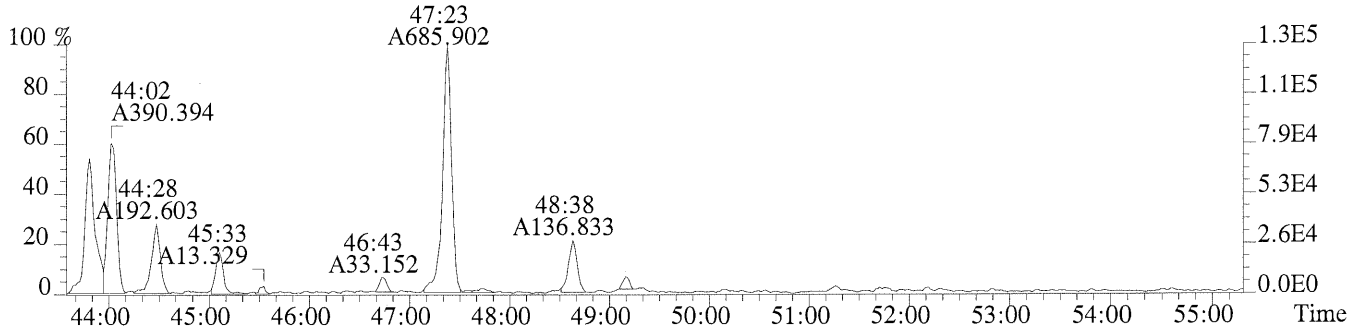


395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)

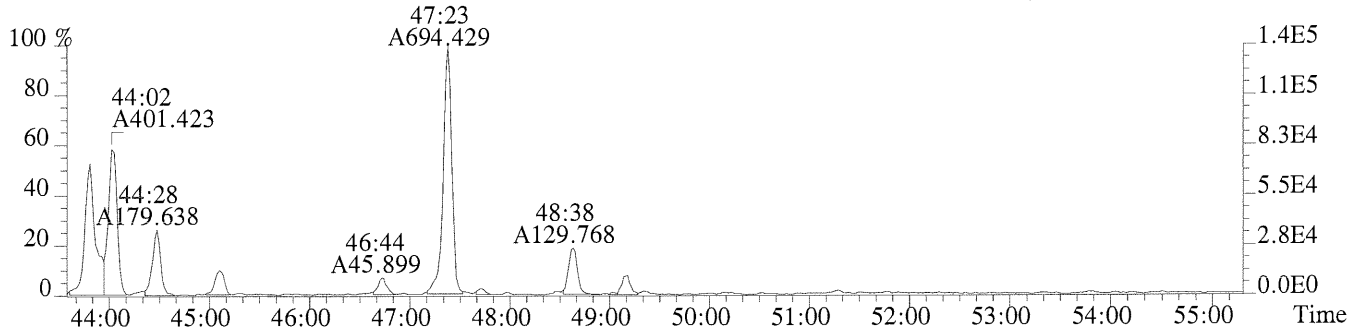


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST lee REVIEWER
11/15/11 11/19/11

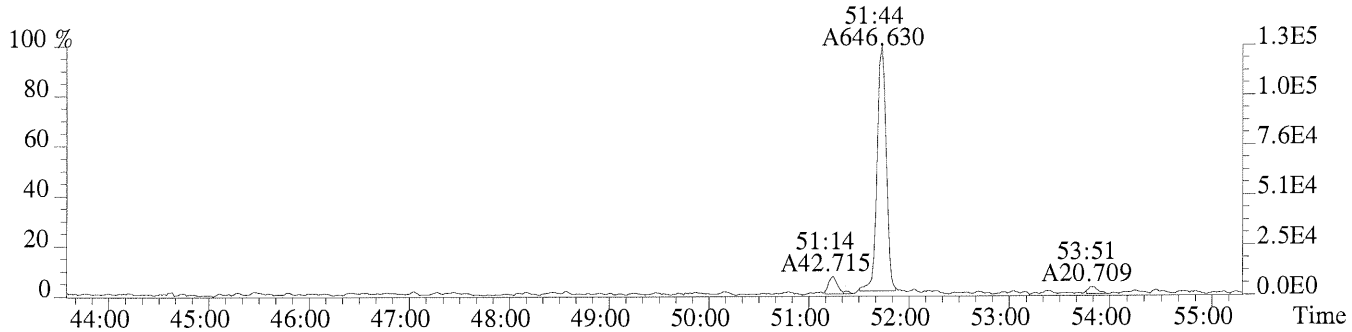
File:U142095 #1-581 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1648.0,1.00%,F,T)



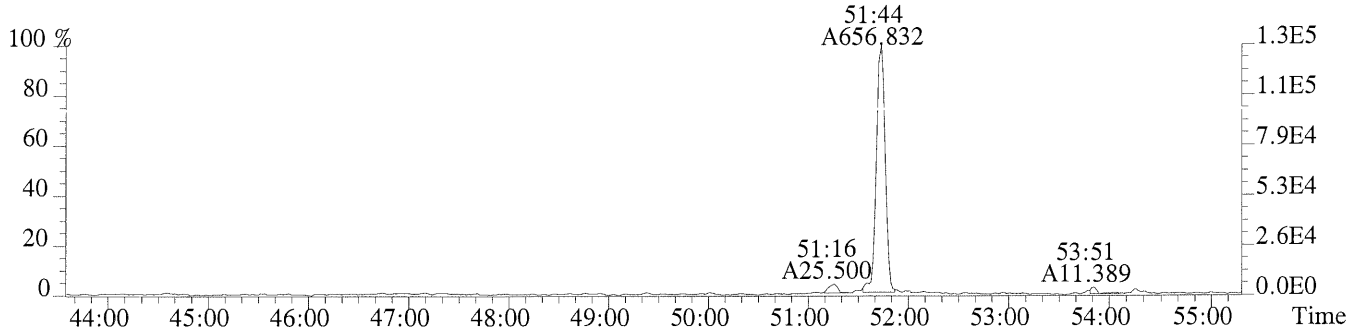
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1088.0,1.00%,F,T)



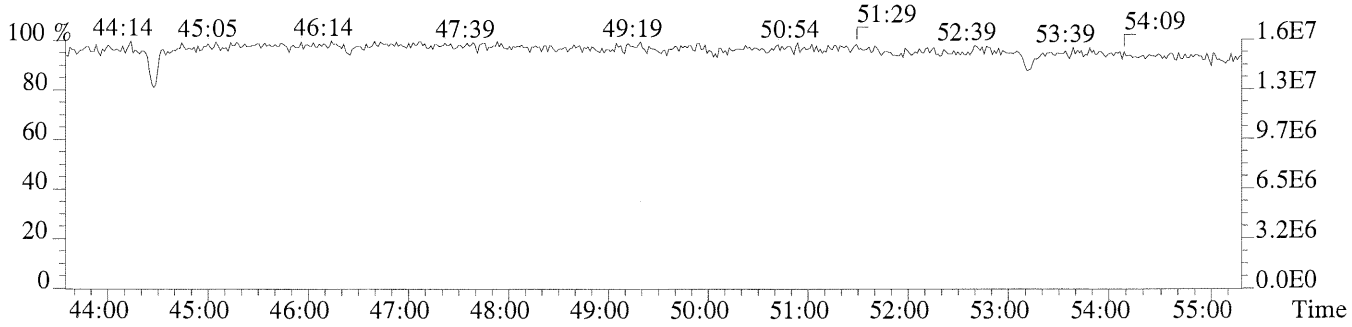
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1636.0,1.00%,F,T)



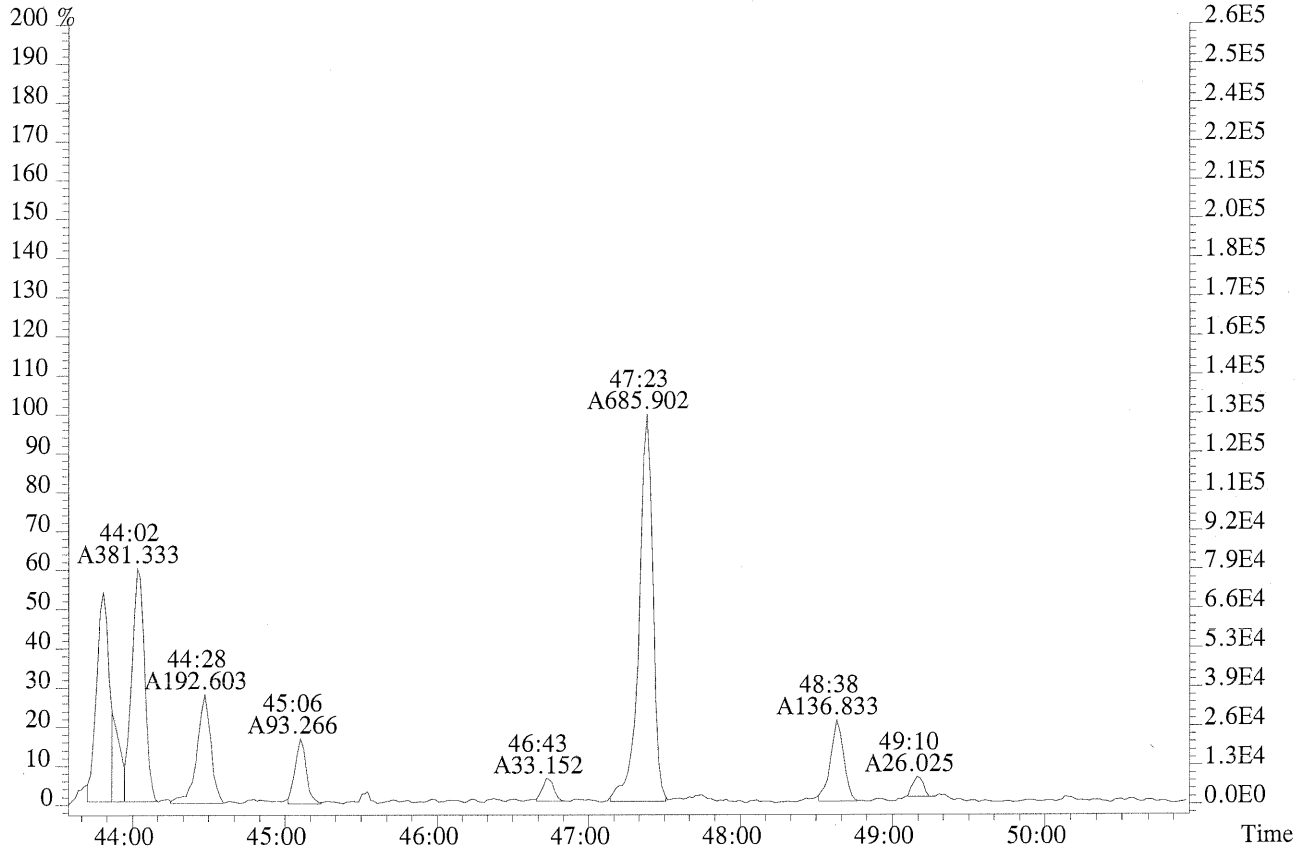
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1132.0,1.00%,F,T)



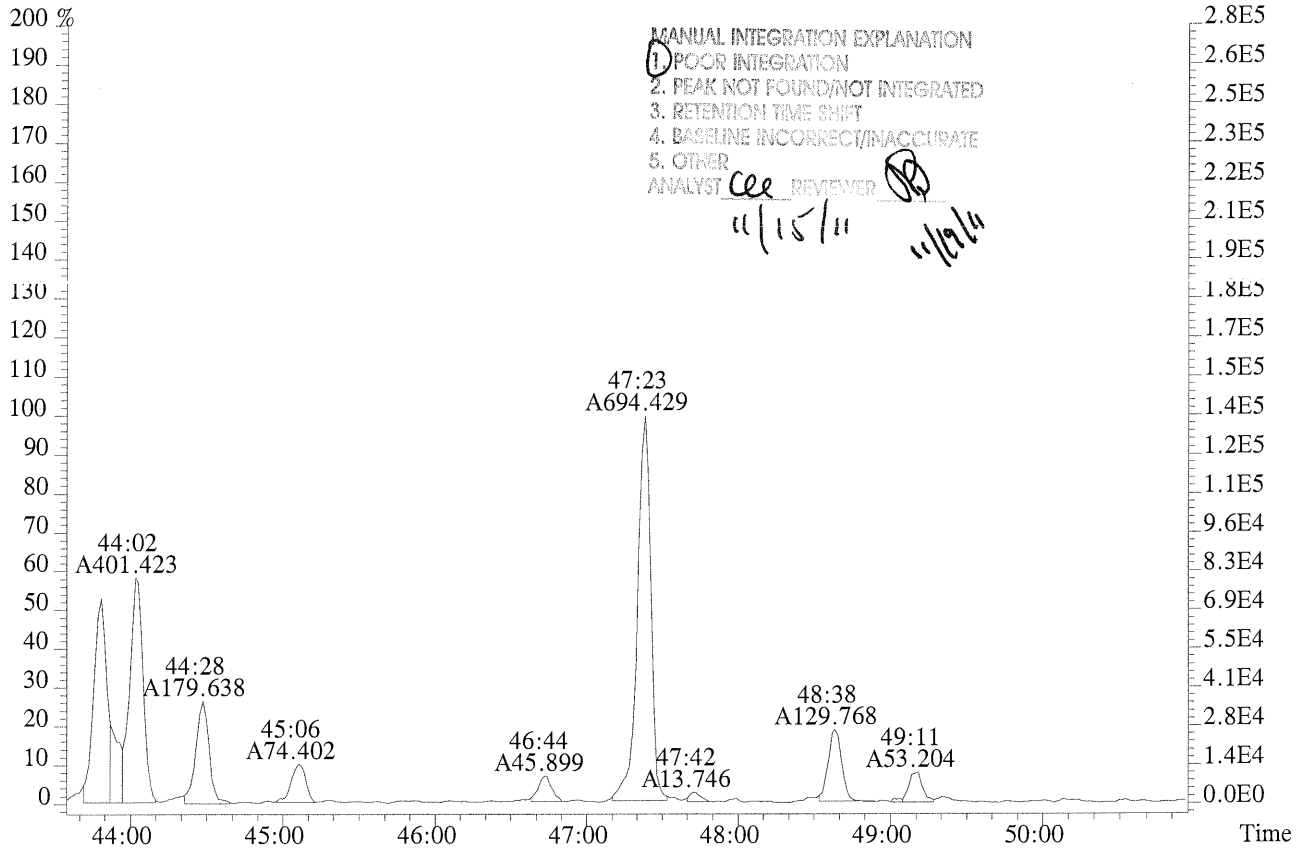
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



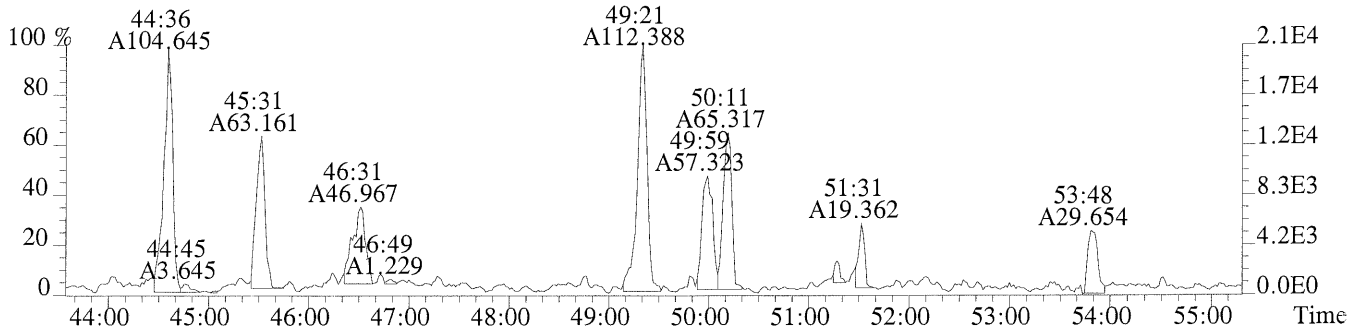
File:U142095 #1-581 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1648.0,1.00%,F,T)



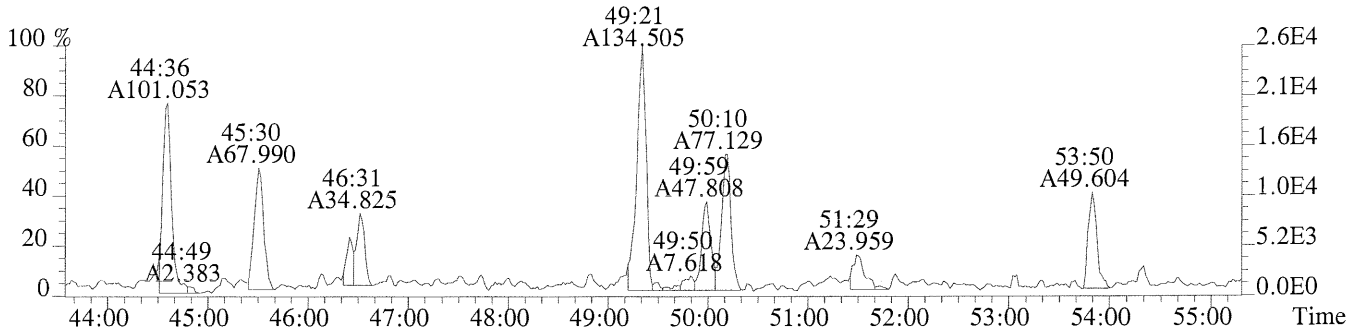
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1088.0,1.00%,F,T)



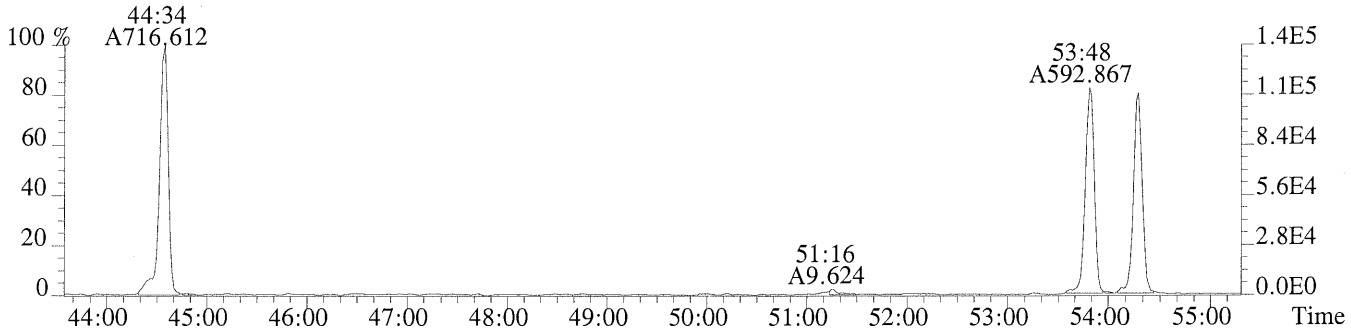
File:U142095 #1-581 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)



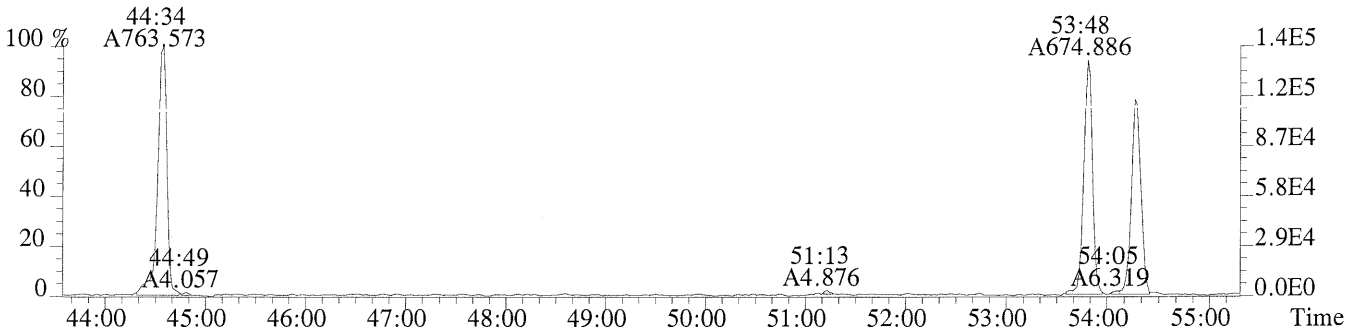
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1568.0,1.00%,F,T)



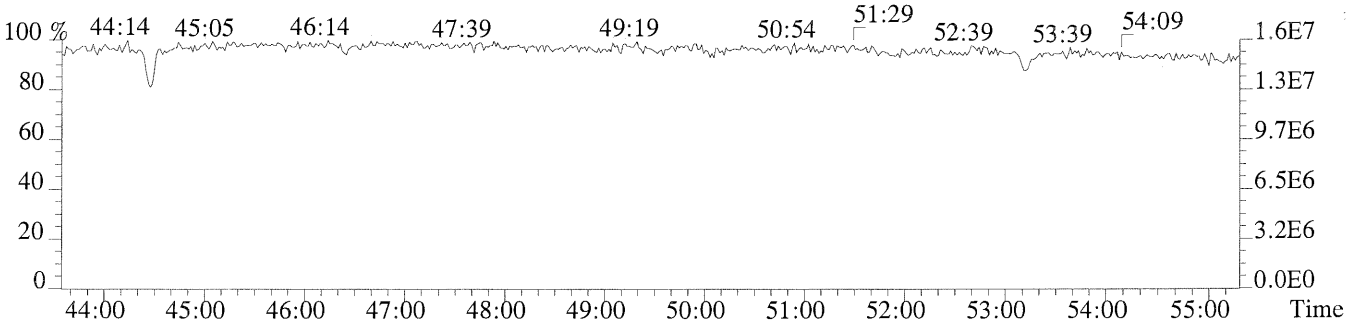
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



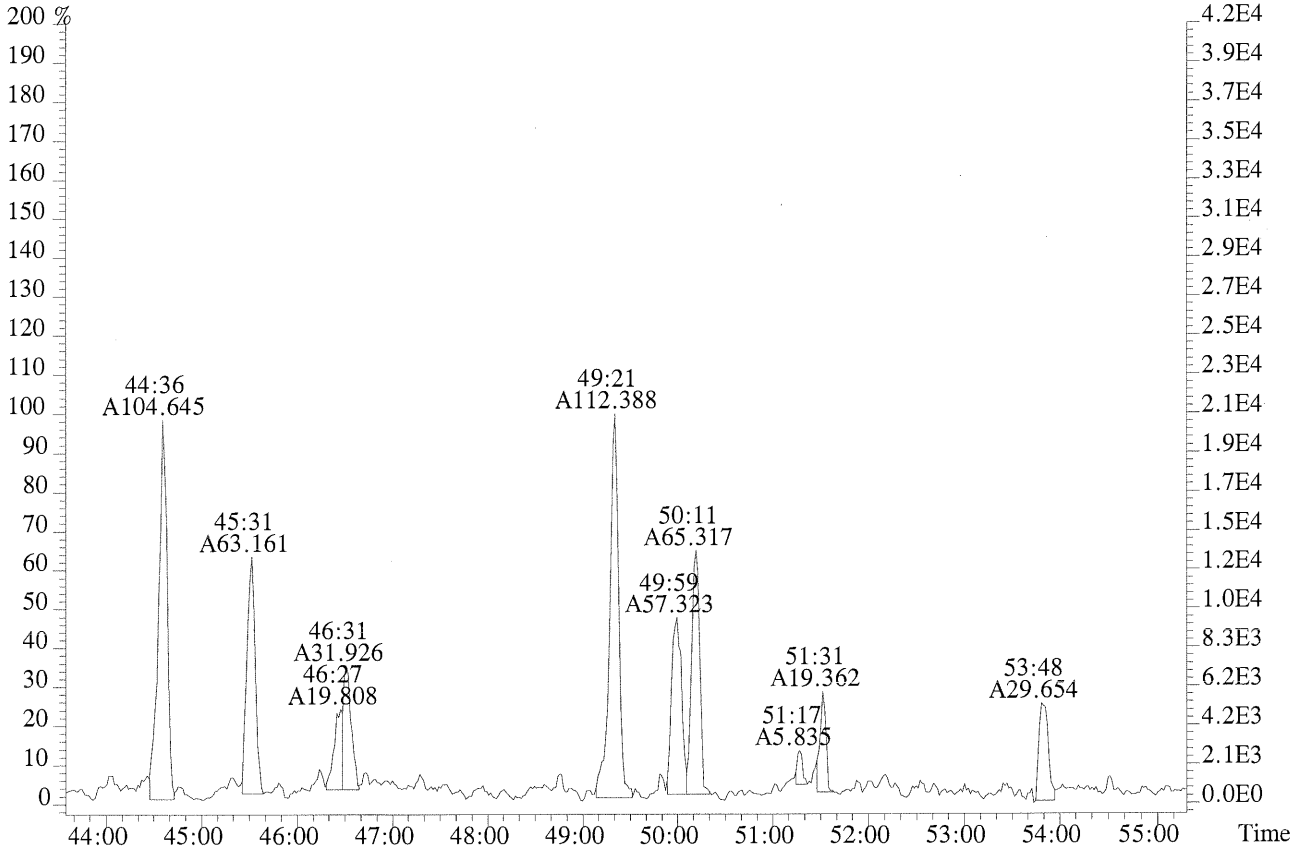
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1276.0,1.00%,F,T)



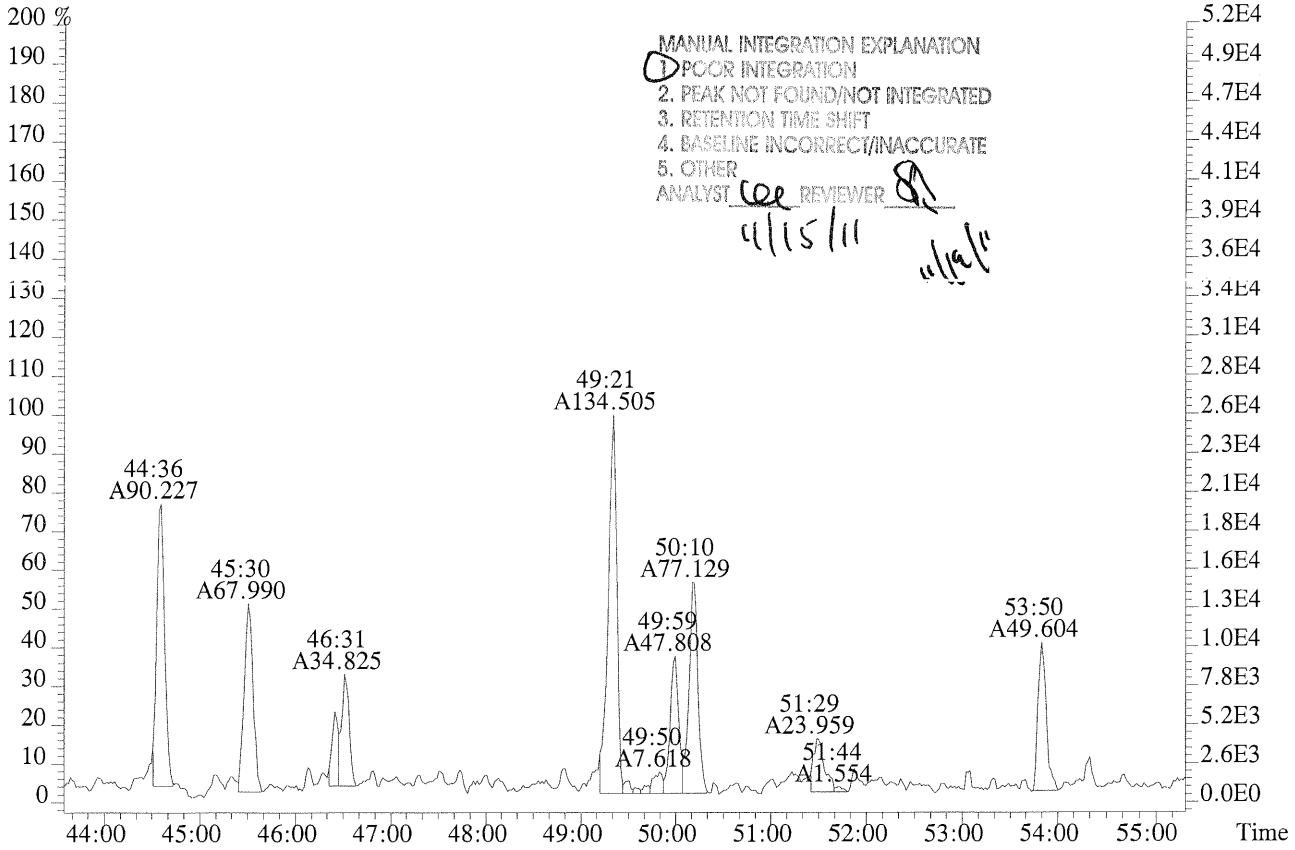
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142095 #1-581 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)

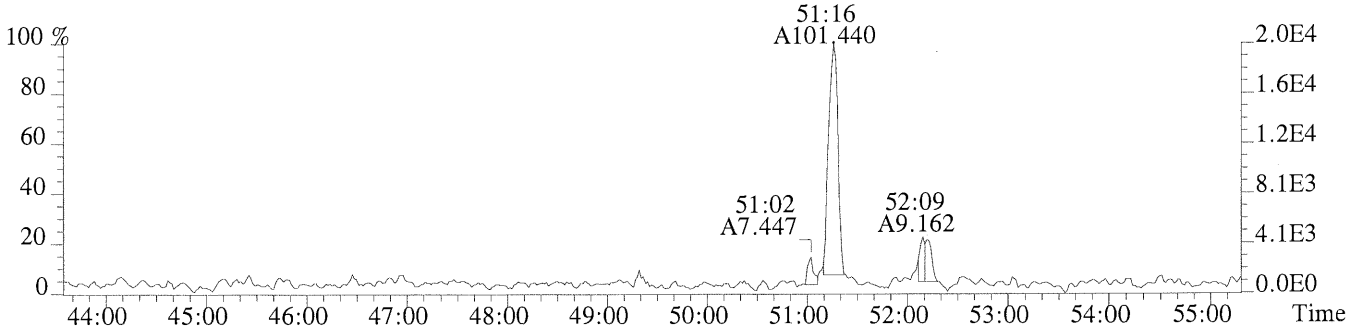


429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1568.0,1.00%,F,T)

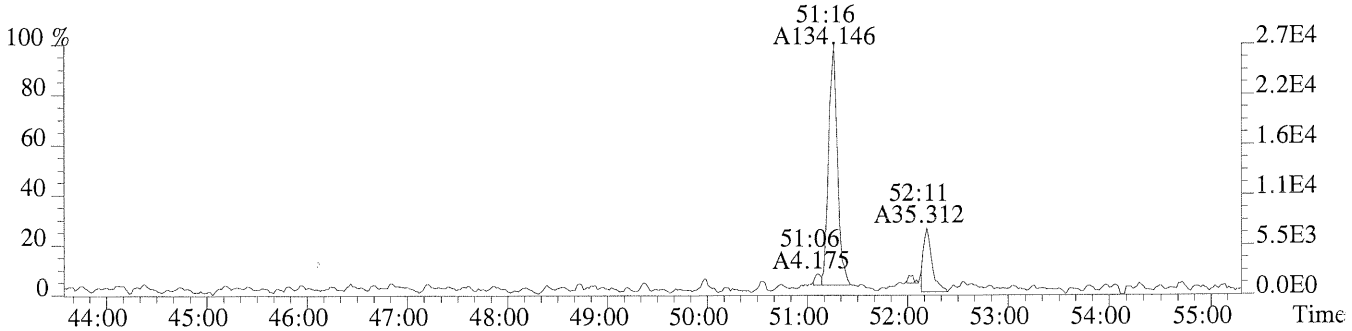


File:U142095 #1-581 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

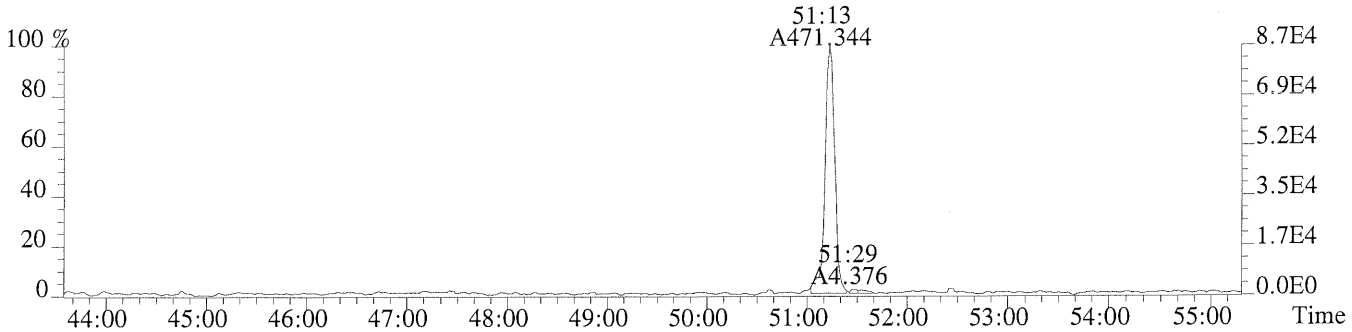
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)



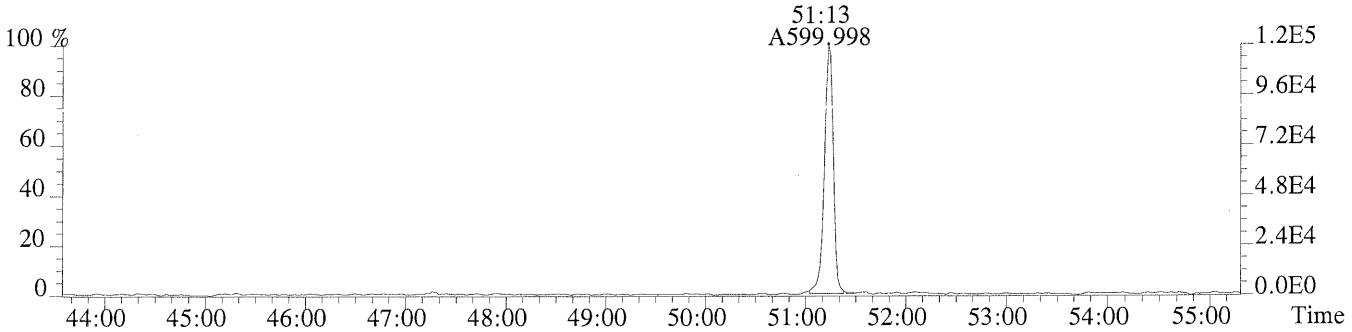
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



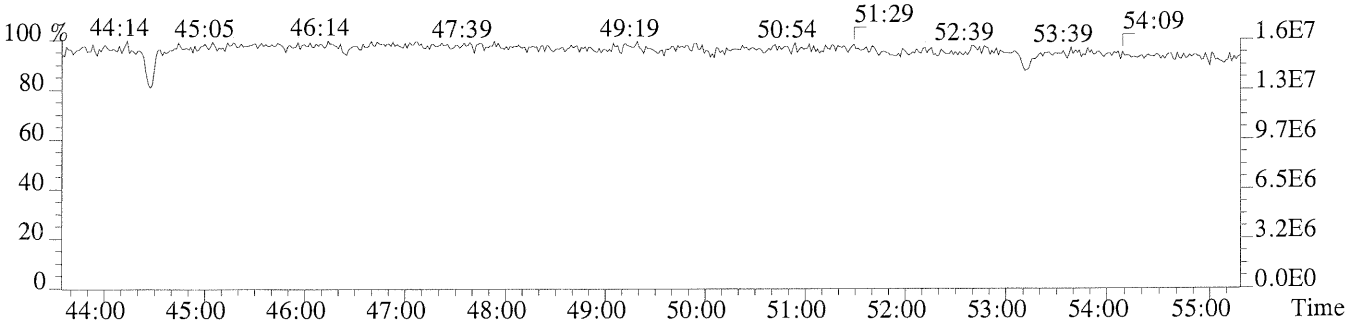
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1384.0,1.00%,F,T)



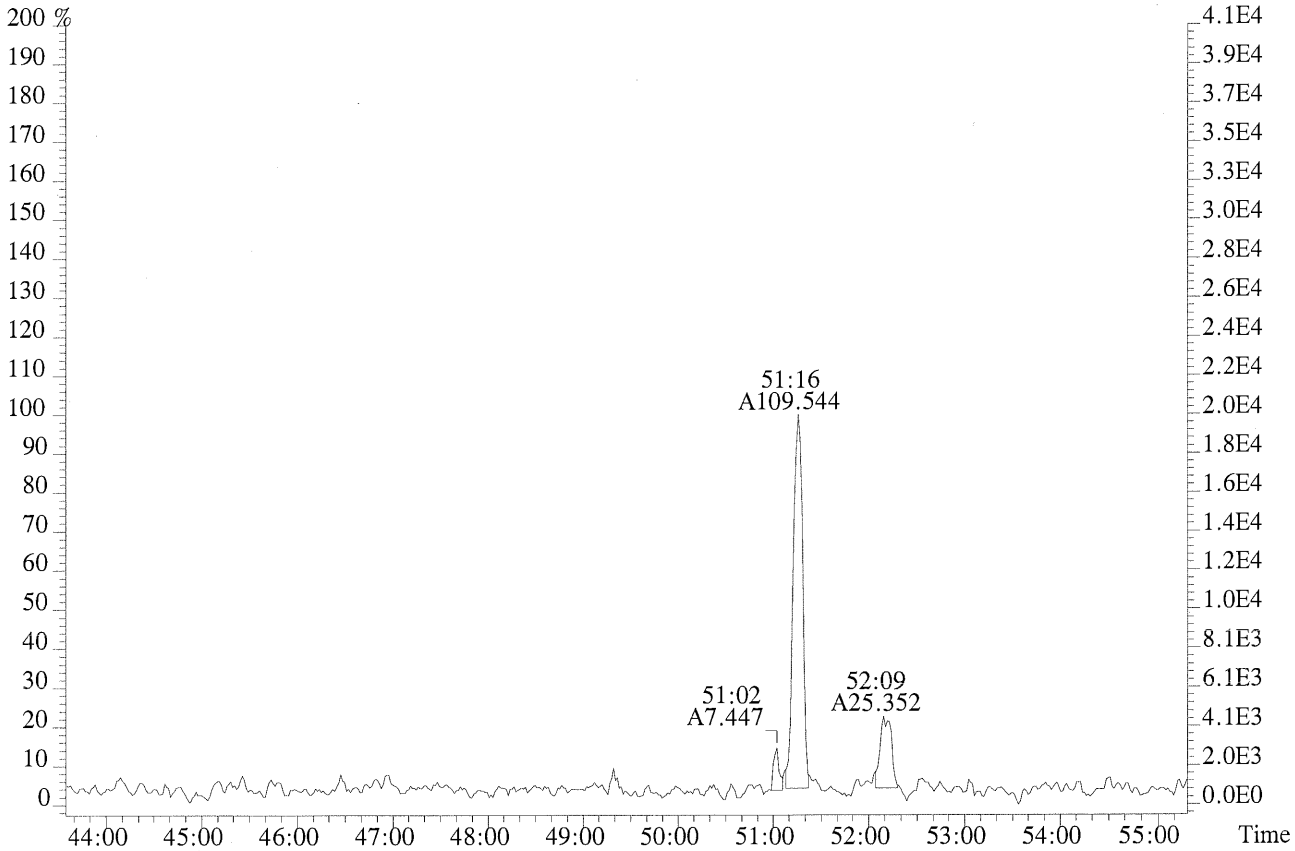
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



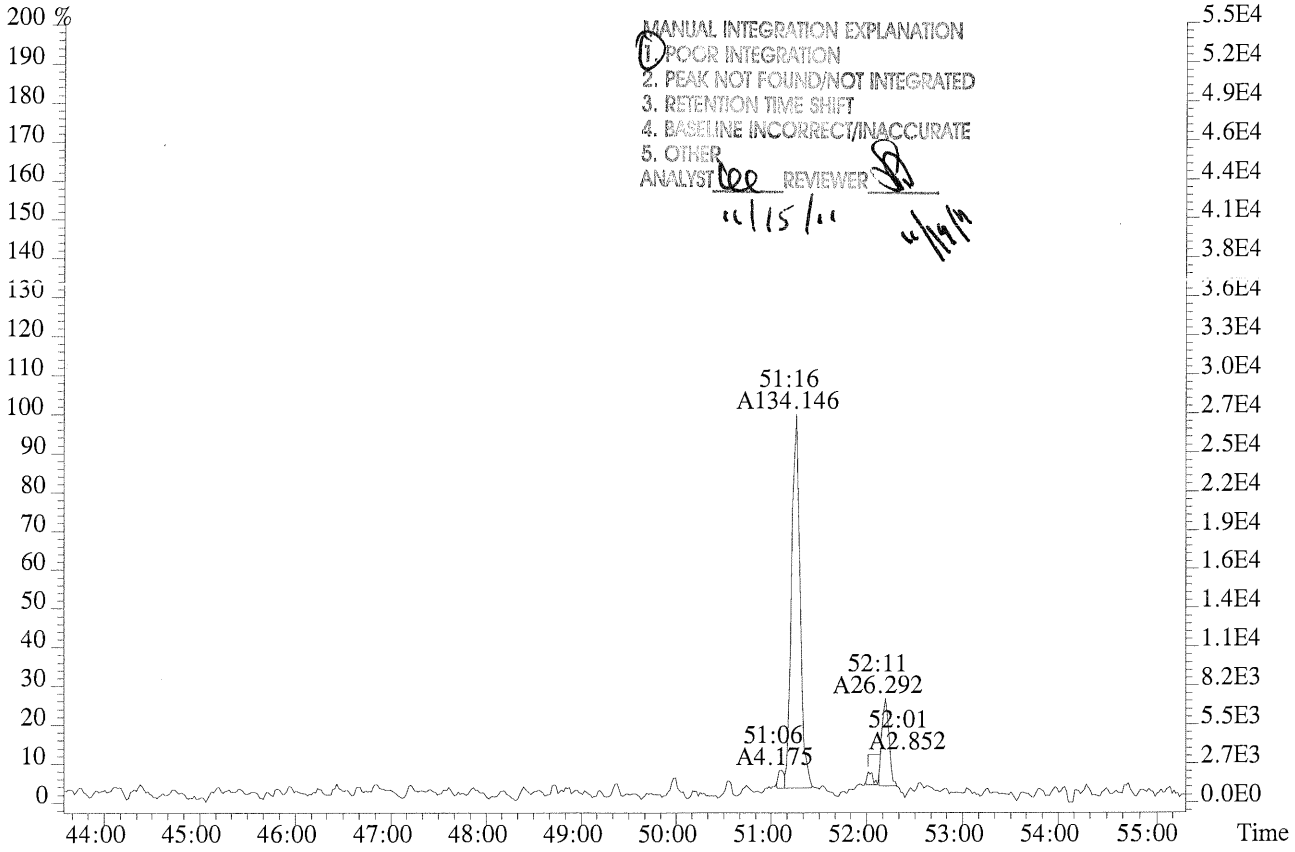
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142095 #1-581 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)

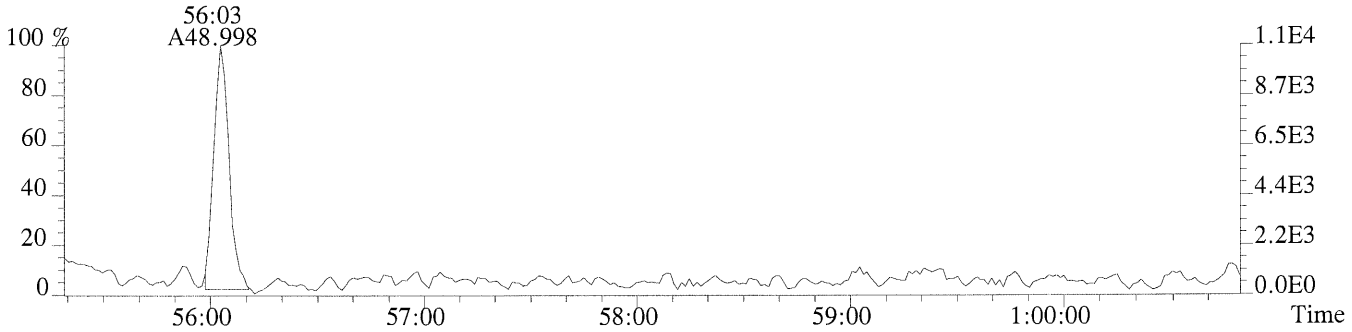


463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)

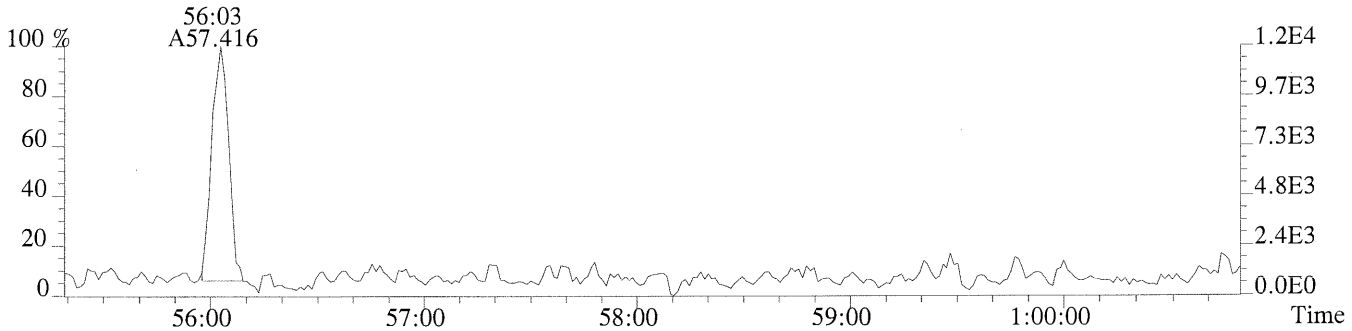


File:U142095 #1-311 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

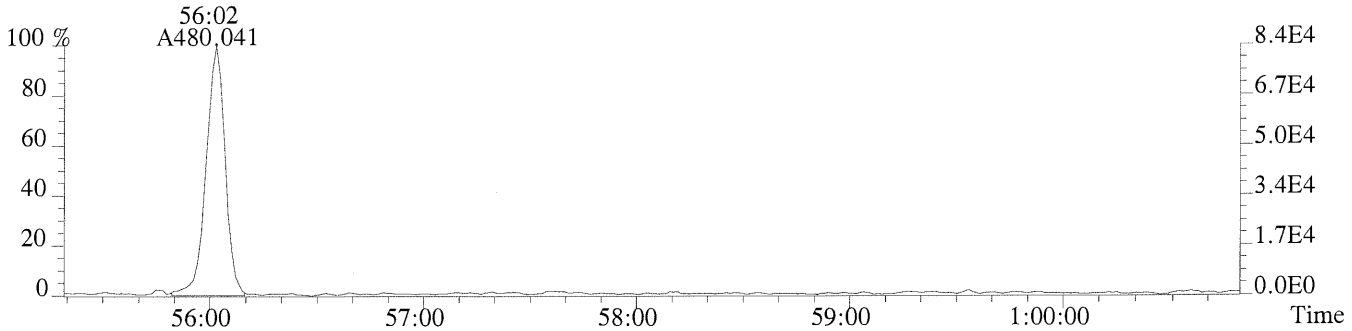
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



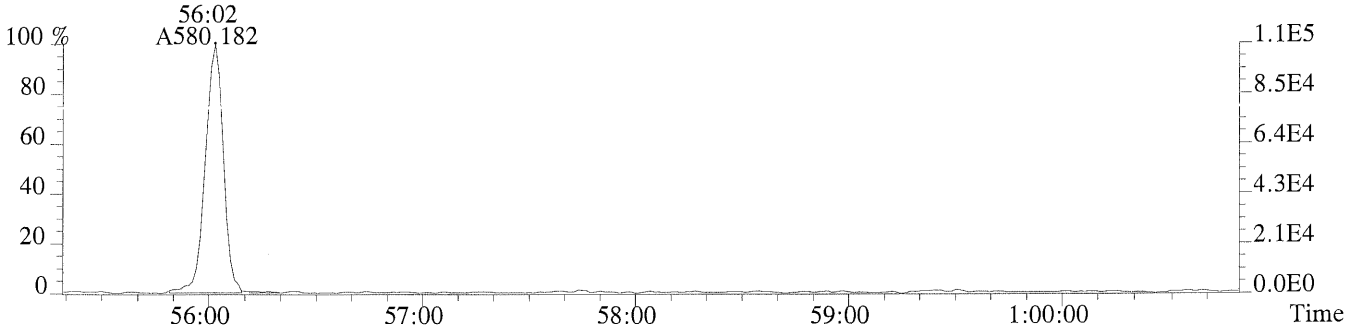
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1128.0,1.00%,F,T)



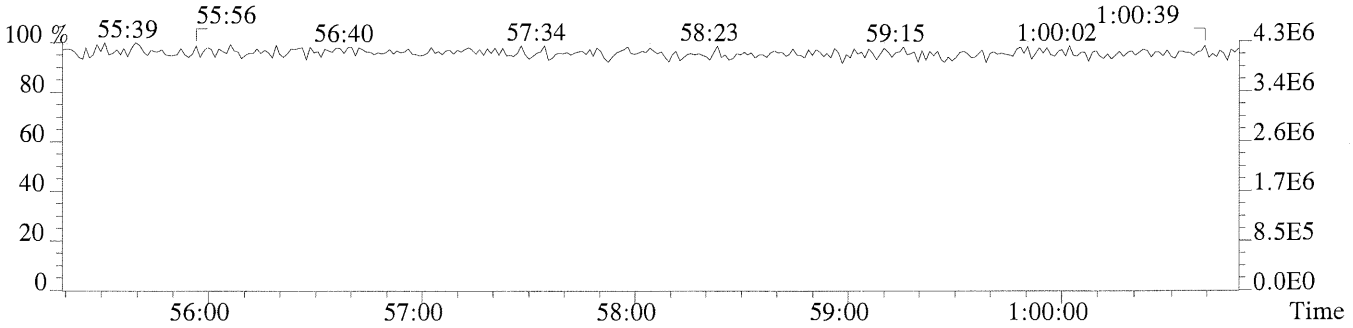
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,920.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)

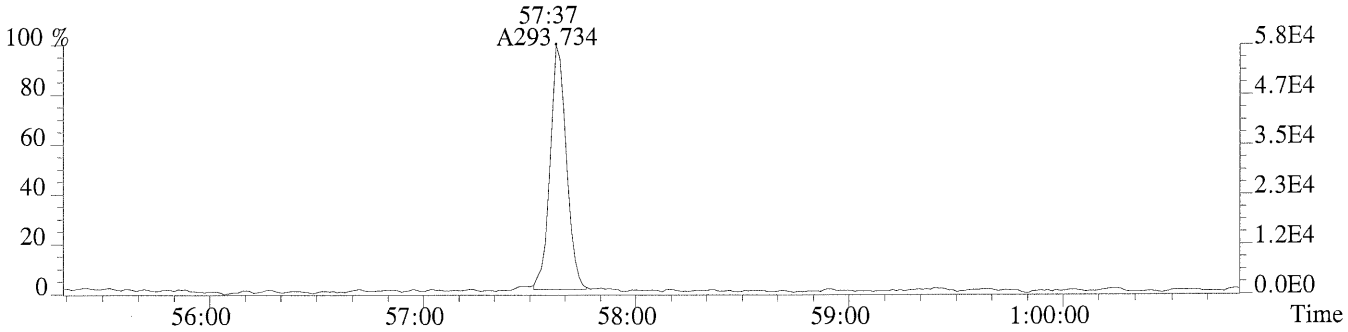


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

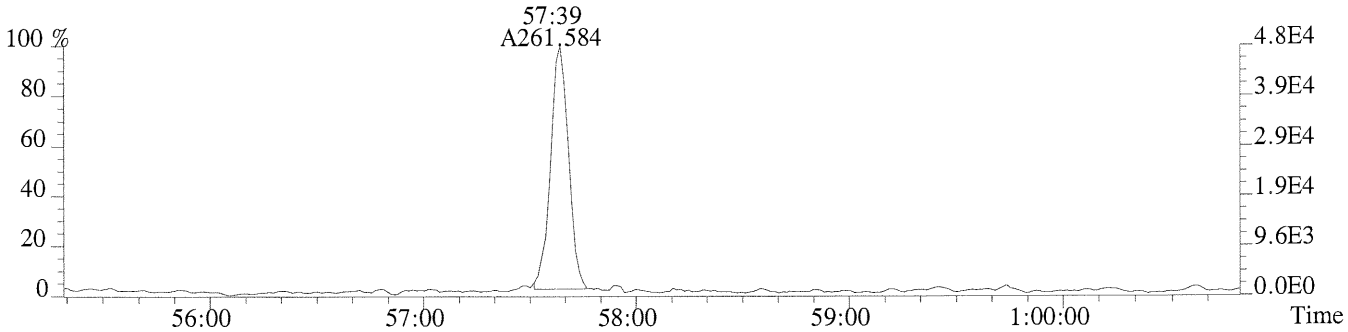


File:U142095 #1-311 Acq:12-NOV-2011 09:34:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-005 B4CS-CS2-PC

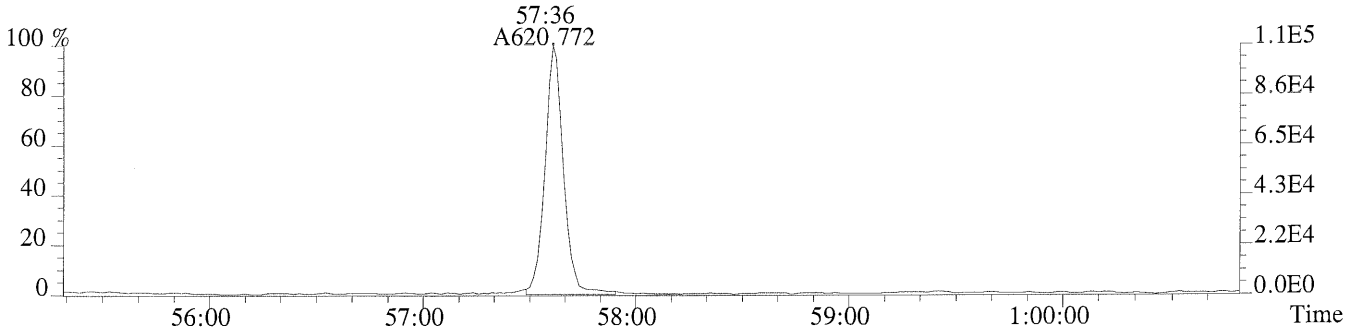
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1152.0,1.00%,F,T)



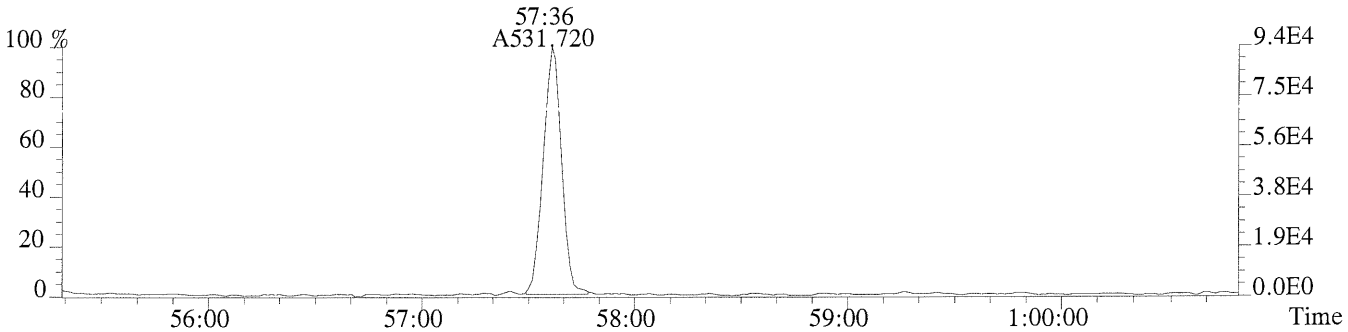
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



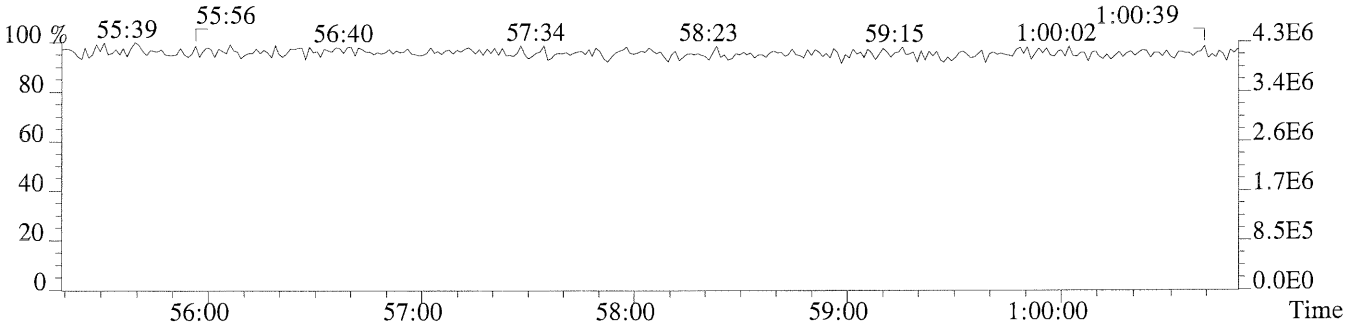
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1160.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4-IAI-PCBS

Run #11 Filename U142152 Samp: 1 Inj: 1 Acquired: 21-NOV-11 16:41:04
Processed: 23-NOV-11 11:27:32 Sample ID: E1101017-006

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	13:22	2.445e+02	8.800e+01	2.78	y	n	1.071
2	1	PCB-2	15:26	2.504e+02	8.644e+01	2.90	y	n	0.947
3	1	PCB-3	15:38	7.840e+02	2.587e+02	3.03	y	n	1.036
4	1	PCB-4	15:53	1.238e+03	1.127e+03	1.10	n	y	1.114
5	1	PCB-10	NotFnd	*	*	*	n	y	2.066
6	2	PCB-9	NotFnd	*	*	*	n	y	1.069
7	2	PCB-7	NotFnd	*	*	*	n	y	1.043
8	2	PCB-6	NotFnd	*	*	*	n	y	1.081
9	2	PCB-5	NotFnd	*	*	*	n	y	0.929
10	2	PCB-8	18:48	5.684e+03	4.173e+03	1.36	y	y	1.122
11	2	PCB-14	NotFnd	*	*	*	n	y	1.070
12	2	PCB-11	21:24	1.852e+04	1.290e+04	1.44	y	y	1.001
13	2	PCB-12/13	NotFnd	*	*	*	n	y	0.938
14	2	PCB-15	21:58	3.075e+03	2.505e+03	1.23	n	y	0.977
15	2	PCB-19	19:05	7.897e+02	7.508e+02	1.05	y	n	1.001
16	2	PCB-18/30	21:04	4.548e+03	4.552e+03	1.00	y	y	1.410
17	2	PCB-17	21:29	4.261e+03	4.192e+03	1.02	y	n	1.117
18	2	PCB-27	21:41	9.434e+02	9.014e+02	1.05	y	n	1.703
19	2	PCB-24	21:50	1.333e+03	1.344e+03	0.99	y	y	1.519
20	2	PCB-16	21:55	3.899e+03	3.686e+03	1.06	y	y	0.902
21	2	PCB-32	22:27	4.600e+03	4.551e+03	1.01	y	n	1.763
22	3	PCB-34	NotFnd	*	*	*	n	y	1.276
23	3	PCB-23	NotFnd	*	*	*	n	y	1.180
24	3	PCB-26/29	24:10	2.490e+03	2.491e+03	1.00	y	y	1.276
25	3	PCB-25	24:25	1.263e+03	1.127e+03	1.12	y	y	1.301
26	3	PCB-31	24:44	1.283e+04	1.243e+04	1.03	y	y	1.341
27	3	PCB-20/28	25:02	1.301e+04	1.294e+04	1.01	y	y	1.229
28	3	PCB-21/33	25:16	1.046e+04	1.070e+04	0.98	y	y	1.234
29	3	PCB-22	25:41	5.372e+03	5.253e+03	1.02	y	y	1.120
30	3	PCB-36	NotFnd	*	*	*	n	y	1.534
31	3	PCB-39	NotFnd	*	*	*	n	y	1.380
32	3	PCB-38	NotFnd	*	*	*	n	y	1.296
33	3	PCB-35	NotFnd	*	*	*	n	y	1.268
34	3	PCB-37	29:07	2.410e+03	2.492e+03	0.97	y	y	1.089
35	2	PCB-54	22:16	2.844e+01	4.644e+01	0.61	n	y	1.002
36	3	PCB-50/53	24:26	1.527e+03	2.069e+03	0.74	y	n	1.205
37	3	PCB-45/51	25:07	2.395e+03	3.161e+03	0.76	y	y	1.191
38	3	PCB-46	25:27	6.298e+02	7.254e+02	0.87	y	y	1.007
39	3	PCB-52	26:54	8.228e+03	1.067e+04	0.77	y	n	1.275
40	3	PCB-43/73	27:08	2.864e+02	3.640e+02	0.79	y	y	1.269
41	3	PCB-49/69	27:24	4.647e+03	5.974e+03	0.78	y	y	1.422
42	3	PCB-48	27:41	2.706e+03	3.447e+03	0.78	y	y	1.207
43	3	PCB-44/47/65	27:54	7.686e+03	1.017e+04	0.76	y	y	1.304
44	3	PCB-59/62/75	28:15	1.292e+03	1.833e+03	0.70	y	y	1.591
45	3	PCB-42	28:27	1.819e+03	2.256e+03	0.81	y	y	1.155
46	3	PCB-40/41/71	28:57	3.528e+03	4.425e+03	0.80	y	y	1.215
47	3	PCB-64	29:10	3.660e+03	4.836e+03	0.76	y	y	1.640
48	3	PCB-72	NotFnd	*	*	*	n	y	1.672
49	3	PCB-68	30:20	5.491e+01	7.569e+01	0.73	y	y	1.597
50	3	PCB-57	30:44	2.739e+01	4.483e+01	0.61	n	y	1.579

51	3	PCB-58	NotFnd	*	*	*	n	n	1.457
52	3	PCB-67	31:09	2.177e+02	2.804e+02	0.78	y	y	1.525
53	3	PCB-63	31:25	2.169e+02	3.006e+02	0.72	y	y	1.584
54	3	PCB-61/70/74/76	31:45	9.643e+03	1.235e+04	0.78	y	n	1.498
55	3	PCB-66	32:05	3.773e+03	4.836e+03	0.78	y	y	1.541
56	3	PCB-55	32:14	6.811e+01	1.013e+02	0.67	y	y	1.392
57	4	PCB-56	32:37	2.189e+02	2.533e+02	0.86	y	n	1.045
58	4	PCB-60	32:59	1.084e+03	1.374e+03	0.79	y	n	1.072
59	4	PCB-80	NotFnd	*	*	*	n	n	1.188
60	4	PCB-79	NotFnd	*	*	*	n	n	1.188
61	4	PCB-78	NotFnd	*	*	*	n	n	1.058
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	36:30	5.857e+01	9.941e+01	0.59	n	y	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	NotFnd	*	*	*	n	y	1.671
66	3	PCB-103	NotFnd	*	*	*	n	y	1.405
67	3	PCB-94	NotFnd	*	*	*	n	n	1.130
68	3	PCB-95	30:51	1.309e+03	8.613e+02	1.52	y	y	1.262
69	3	PCB-93/100	NotFnd	*	*	*	n	y	1.231
70	3	PCB-98/102	31:13	9.919e+01	5.792e+01	1.71	y	y	1.203
71	3	PCB-88/91	31:37	4.311e+01	2.791e+01	1.54	y	y	1.208
72	3	PCB-84	31:57	4.262e+02	2.562e+02	1.66	y	y	1.037
73	3	PCB-89	32:26	2.899e+01	2.919e+01	0.99	n	y	1.160
74	4	PCB-121	NotFnd	*	*	*	n	n	1.479
75	4	PCB-92	33:15	2.289e+02	1.735e+02	1.32	y	n	1.115
76	4	PCB-90/101/113	33:50	1.832e+03	1.117e+03	1.64	y	y	1.228
77	4	PCB-83/99	34:26	8.379e+02	5.377e+02	1.56	y	y	1.105
78	4	PCB-112	NotFnd	*	*	*	n	n	1.408
79	4	PCB-86/87/97/109/119/125	35:01	1.078e+03	2.987e+02	3.61	n	y	1.257
80	4	PCB-117	NotFnd	*	*	*	n	n	1.319
81	4	PCB-85/116	35:39	4.171e+02	2.966e+02	1.41	y	y	1.272
82	4	PCB-110/115	35:48	1.160e+03	7.371e+02	1.57	y	y	1.417
83	4	PCB-82	36:07	1.243e+02	7.931e+01	1.57	y	y	0.941
84	4	PCB-111	NotFnd	*	*	*	n	n	1.420
85	4	PCB-120	NotFnd	*	*	*	n	n	1.485
86	5	PCB-108/124	NotFnd	*	*	*	n	y	0.984
87	5	PCB-107	NotFnd	*	*	*	n	y	1.020
88	5	PCB-123	NotFnd	*	*	*	n	y	1.018
89	5	PCB-106	NotFnd	*	*	*	n	y	1.071
90	5	PCB-118	38:49	3.733e+02	2.497e+02	1.49	y	n	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	0.903
92	5	PCB-114	NotFnd	*	*	*	n	y	0.991
93	5	PCB-105	39:59	1.183e+02	7.570e+01	1.56	y	n	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	0.952
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	2.319
98	4	PCB-150	NotFnd	*	*	*	n	n	2.187
99	4	PCB-136	34:19	1.563e+02	1.085e+02	1.44	n	n	2.256
100	4	PCB-145	NotFnd	*	*	*	n	n	2.084
101	4	PCB-148	NotFnd	*	*	*	n	n	1.699
102	4	PCB-135/151	36:43	2.540e+02	2.052e+02	1.24	y	n	1.622
103	4	PCB-154	NotFnd	*	*	*	n	n	1.814
104	4	PCB-144	37:18	3.673e+01	2.000e+01	1.84	n	n	1.669
105	5	PCB-147/149	37:39	4.300e+02	3.701e+02	1.16	y	n	1.427
106	5	PCB-134	NotFnd	*	*	*	n	y	1.119
107	5	PCB-143	NotFnd	*	*	*	n	n	1.465

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.384
109	5	PCB-131	NotFnd	*	*	*	n	n	1.273
110	5	PCB-142	NotFnd	*	*	*	n	n	1.262
111	5	PCB-132	38:53	8.152e+01	7.578e+01	1.08	y	n	1.181
112	5	PCB-133	NotFnd	*	*	*	n	n	1.333
113	5	PCB-165	NotFnd	*	*	*	n	n	1.606
114	5	PCB-146	40:02	3.461e+01	2.918e+01	1.19	y	n	1.440
115	5	PCB-161	NotFnd	*	*	*	n	n	1.770
116	5	PCB-153/168	40:39	3.006e+02	2.595e+02	1.16	y	n	1.644
117	5	PCB-141	40:51	6.630e+01	4.604e+01	1.44	n	n	1.270
118	5	PCB-130	NotFnd	*	*	*	n	n	1.192
119	5	PCB-137	NotFnd	*	*	*	n	n	1.186
120	5	PCB-164	NotFnd	*	*	*	n	n	1.677
121	5	PCB-129/138/163	41:54	1.955e+02	1.661e+02	1.18	y	n	1.354
122	5	PCB-160	NotFnd	*	*	*	n	n	1.583
123	5	PCB-158	NotFnd	*	*	*	n	n	1.722
124	5	PCB-128/166	NotFnd	*	*	*	n	y	1.397
125	6	PCB-159	NotFnd	*	*	*	n	n	0.917
126	6	PCB-162	NotFnd	*	*	*	n	n	0.910
127	6	PCB-167	NotFnd	*	*	*	n	n	1.008
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	39:38	9.468e+01	7.572e+01	1.25	n	y	1.624
132	5	PCB-184	NotFnd	*	*	*	n	n	1.584
133	5	PCB-176	40:31	2.739e+01	2.725e+01	1.01	y	y	1.548
134	5	PCB-186	NotFnd	*	*	*	n	n	1.440
135	5	PCB-178	42:20	1.543e+01	1.326e+01	1.16	y	y	1.107
136	5	PCB-175	NotFnd	*	*	*	n	n	1.156
137	5	PCB-187	43:15	7.983e+01	8.167e+01	0.98	y	y	1.196
138	5	PCB-182	NotFnd	*	*	*	n	n	0.967
139	6	PCB-183	43:52	2.975e+01	2.044e+01	1.45	n	y	0.746
140	6	PCB-185	NotFnd	*	*	*	n	y	0.552
141	6	PCB-174	44:07	2.661e+01	2.286e+01	1.16	y	y	0.646
142	6	PCB-177	44:32	2.039e+01	1.503e+01	1.36	n	y	0.622
143	6	PCB-181	NotFnd	*	*	*	n	n	0.617
144	6	PCB-171/173	NotFnd	*	*	*	n	y	0.584
145	6	PCB-172	NotFnd	*	*	*	n	n	0.567
146	6	PCB-192	NotFnd	*	*	*	n	n	0.702
147	6	PCB-180/193	47:26	2.666e+01	2.487e+01	1.07	y	y	0.673
148	6	PCB-191	NotFnd	*	*	*	n	n	0.748
149	6	PCB-170	NotFnd	*	*	*	n	n	0.540
150	6	PCB-190	NotFnd	*	*	*	n	n	0.706
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	NotFnd	*	*	*	n	n	0.863
153	6	PCB-201	NotFnd	*	*	*	n	n	1.332
154	6	PCB-204	NotFnd	*	*	*	n	n	1.308
155	6	PCB-197	NotFnd	*	*	*	n	n	1.299
156	6	PCB-200	NotFnd	*	*	*	n	n	1.209
157	6	PCB-198/199	NotFnd	*	*	*	n	n	0.871
158	6	PCB-196	NotFnd	*	*	*	n	n	0.880
159	6	PCB-203	NotFnd	*	*	*	n	n	0.933
160	6	PCB-195	NotFnd	*	*	*	n	n	0.817
161	6	PCB-194	NotFnd	*	*	*	n	n	0.820
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	NotFnd	*	*	*	n	n	0.880
164	6	PCB-207	NotFnd	*	*	*	n	n	1.370

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165	7	PCB-206	NotFnd	*	*	*	n	n	0.931
166	7	PCB-209	57:41	2.653e+02	1.969e+02	1.35	n	n	0.894
167	1	PCB-1L	13:21	2.085e+03	7.128e+02	2.92	y	y	1.220
168	1	PCB-3L	15:37	2.188e+03	7.154e+02	3.06	y	y	1.173
169	1	PCB-4L	15:52	1.332e+03	8.241e+02	1.62	y	n	0.803
170	2	PCB-15L	21:57	1.649e+03	1.073e+03	1.54	y	n	0.962
171	2	PCB-19L	19:04	1.106e+03	1.086e+03	1.02	y	y	0.636
172	3	PCB-37L	29:06	1.306e+03	1.178e+03	1.11	y	y	1.144
173	2	PCB-54L	22:15	9.562e+02	1.174e+03	0.81	y	n	1.140
174	4	PCB-81L	35:55	1.005e+03	1.259e+03	0.80	y	y	0.947
175	4	PCB-77L	36:29	1.031e+03	1.284e+03	0.80	y	y	0.949
176	3	PCB-104L	27:49	1.481e+03	9.388e+02	1.58	y	y	1.397
177	5	PCB-123L	38:27	1.206e+03	8.158e+02	1.48	y	n	1.029
178	5	PCB-118L	38:47	1.245e+03	7.556e+02	1.65	y	n	1.077
179	5	PCB-114L	39:19	1.280e+03	7.906e+02	1.62	y	n	1.075
180	5	PCB-105L	39:57	1.168e+03	7.465e+02	1.56	y	n	1.013
181	5	PCB-126L	43:02	9.449e+02	6.712e+02	1.41	y	n	0.898
182	4	PCB-155L	33:35	1.356e+03	1.072e+03	1.27	y	y	1.637
183	6	PCB-167L	44:53	7.945e+02	5.975e+02	1.33	y	n	0.882
184	6	PCB-156/157L	46:02	1.588e+03	1.233e+03	1.29	y	n	0.818
185	6	PCB-169L	49:17	7.524e+02	5.961e+02	1.26	y	n	0.716
186	5	PCB-188L	39:17	1.275e+03	1.261e+03	1.01	y	n	2.358
187	6	PCB-189L	51:48	7.782e+02	7.394e+02	1.05	y	n	1.307
188	6	PCB-202L	44:37	8.807e+02	1.038e+03	0.85	y	n	1.804
189	6	PCB-205L	54:20	6.950e+02	7.488e+02	0.93	y	n	1.363
190	6	PCB-208L	51:17	6.314e+02	8.035e+02	0.79	y	n	1.337
191	7	PCB-206L	56:05	5.174e+02	6.457e+02	0.80	y	n	0.998
192	7	PCB-209L	57:40	7.707e+02	6.273e+02	1.23	y	n	1.563
193	3	PCB-28L	25:01	1.710e+03	1.555e+03	1.10	y	y	1.387
194	4	PCB-111L	36:30	1.587e+03	1.030e+03	1.54	y	y	1.238
195	5	PCB-178L	42:19	8.468e+02	7.982e+02	1.06	y	n	0.953
196	2	PCB-9L	17:55	2.369e+03	1.584e+03	1.50	y	n	-
197	3	PCB-52L	26:52	1.794e+03	2.098e+03	0.86	y	y	-
198	4	PCB-101L	33:49	2.104e+03	1.311e+03	1.60	y	y	-
199	5	PCB-138L	41:53	1.664e+03	1.333e+03	1.25	y	n	-
200	6	PCB-194L	53:52	8.465e+02	8.947e+02	0.95	y	n	-

-- Sample Calculation--

$$\text{PCB-209} = \frac{(2.653e{+}02 + 1.969e{+}02) \times 10000 \text{ pg} \times 1}{(7.707e{+}02 + 6.273e{+}02) \times (0.5 \text{ g}) \times (100 - \quad)/100 \times 0.8938} = 68/0$$

PG 11/27/11

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
Office(713)266-1599. Fax(713)266-0130

sp166respa
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4-IA1-PCBS

Run #2 Filename U142152#1 Samp: 1 Inj: 1 Acquired: 21-NOV-11 16:41:04
Processed: 26-NOV-11 13:25:31 Sample ID: E1101017-006

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:46	1.558e+02	1.167e+02	1.33	yes	1.070	yes
2	70L	PCB-70L	31:44	1.416e+03	1.734e+03	0.82	yes	1.633	yes
3	15L	PCB-15L	21:57	1.649e+03	1.073e+03	1.54	yes		yes
4	81L	PCB-81L	35:55	1.005e+03	1.259e+03	0.80	yes		yes

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	2.45e+04	4.20e+03	5.8e+00	1.57e+04	8.52e+02	1.8e+01
2	PCB-70L	2.05e+05	4.29e+03	4.8e+01	2.56e+05	1.52e+03	1.7e+02
3	PCB-15L	2.56e+05	4.20e+03	6.1e+01	1.61e+05	8.52e+02	1.9e+02
4	PCB-81L	1.55e+05	5.88e+03	2.6e+01	1.88e+05	1.52e+03	1.2e+02

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(1.56e+02 + 1.17e+02) \times 10000\ \text{pg} \quad 1}{(1.65e+03 + 1.07e+03) \times 1.0\ \cancel{L} \times 1.070} = 936\ \text{pg}\ \cancel{\text{pg/L}}$$

11/27/11

Columbia Analytical Services, Inc.
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Houston, TX 77084
Office(713)266-1599. Fax(713)266-0130

CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4-IAI-PCBS

Run #11 Filename U142152#1 Samp: 1 Inj: 1 Acquired: 21-NOV-11 16:41:04

Processed: 23-NOV-11 11:27:32 LAB. ID: E1101017-006

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	4.49e+04	1.02e+03	4.4e+01	1.62e+04	1.00e+03	1.6e+01
2	PCB-2	4.34e+04	1.02e+03	4.3e+01	1.58e+04	1.00e+03	1.6e+01
3	PCB-3	1.20e+05	1.02e+03	1.2e+02	4.31e+04	1.00e+03	4.3e+01
4	PCB-4	2.09e+05	5.10e+03	4.1e+01	1.68e+05	4.31e+04	3.9e+00
5	PCB-10	*	5.10e+03	*	*	4.31e+04	*
6	PCB-9	*	1.83e+03	*	*	5.68e+04	*
7	PCB-7	*	1.83e+03	*	*	5.68e+04	*
8	PCB-6	*	1.83e+03	*	*	5.68e+04	*
9	PCB-5	*	1.83e+03	*	*	5.68e+04	*
10	PCB-8	8.25e+05	1.83e+03	4.5e+02	5.80e+05	5.68e+04	1.0e+01
11	PCB-14	*	1.83e+03	*	*	5.68e+04	*
12	PCB-11	2.87e+06	1.83e+03	1.6e+03	1.94e+06	5.68e+04	3.4e+01
13	PCB-12/13	*	1.83e+03	*	*	5.68e+04	*
14	PCB-15	4.28e+05	1.83e+03	2.3e+02	3.37e+05	5.68e+04	5.9e+00
15	PCB-19	1.11e+05	6.40e+03	1.7e+01	1.11e+05	7.28e+02	1.5e+02
16	PCB-18/30	5.93e+05	6.40e+03	9.3e+01	5.80e+05	7.28e+02	8.0e+02
17	PCB-17	6.46e+05	6.40e+03	1.0e+02	6.36e+05	7.28e+02	8.7e+02
18	PCB-27	1.62e+05	6.40e+03	2.5e+01	1.54e+05	7.28e+02	2.1e+02
19	PCB-24	3.18e+05	6.40e+03	5.0e+01	3.34e+05	7.28e+02	4.6e+02
20	PCB-16	7.84e+05	6.40e+03	1.2e+02	7.56e+05	7.28e+02	1.0e+03
21	PCB-32	7.23e+05	6.40e+03	1.1e+02	7.10e+05	7.28e+02	9.7e+02
22	PCB-34	*	5.02e+03	*	*	3.77e+03	*
23	PCB-23	*	5.02e+03	*	*	3.77e+03	*
24	PCB-26/29	4.29e+05	5.02e+03	8.5e+01	4.16e+05	3.77e+03	1.1e+02
25	PCB-25	1.86e+05	5.02e+03	3.7e+01	1.80e+05	3.77e+03	4.8e+01
26	PCB-31	2.26e+06	5.02e+03	4.5e+02	2.21e+06	3.77e+03	5.9e+02
27	PCB-20/28	2.06e+06	5.02e+03	4.1e+02	2.05e+06	3.77e+03	5.4e+02
28	PCB-21/33	1.51e+06	5.02e+03	3.0e+02	1.56e+06	3.77e+03	4.1e+02
29	PCB-22	9.10e+05	5.02e+03	1.8e+02	8.91e+05	3.77e+03	2.4e+02
30	PCB-36	*	5.02e+03	*	*	3.77e+03	*
31	PCB-39	*	5.02e+03	*	*	3.77e+03	*
32	PCB-38	*	5.02e+03	*	*	3.77e+03	*
33	PCB-35	*	5.02e+03	*	*	3.77e+03	*
34	PCB-37	3.77e+05	5.02e+03	7.5e+01	3.93e+05	3.77e+03	1.0e+02
35	PCB-54	4.52e+03	7.16e+02	6.3e+00	5.41e+03	8.80e+02	6.1e+00
36	PCB-50/53	2.14e+05	1.29e+03	1.7e+02	2.97e+05	1.33e+03	2.2e+02
37	PCB-45/51	2.67e+05	1.29e+03	2.1e+02	3.44e+05	1.33e+03	2.6e+02
38	PCB-46	9.47e+04	1.29e+03	7.3e+01	1.26e+05	1.33e+03	9.5e+01
39	PCB-52	1.20e+06	1.29e+03	9.3e+02	1.55e+06	1.33e+03	1.2e+03
40	PCB-43/73	6.60e+04	1.29e+03	5.1e+01	7.78e+04	1.33e+03	5.8e+01
41	PCB-49/69	7.72e+05	1.29e+03	6.0e+02	1.00e+06	1.33e+03	7.5e+02
42	PCB-48	4.00e+05	1.29e+03	3.1e+02	5.16e+05	1.33e+03	3.9e+02
43	PCB-44/47/65	9.89e+05	1.29e+03	7.7e+02	1.33e+06	1.33e+03	1.0e+03
44	PCB-59/62/75	1.63e+05	1.29e+03	1.3e+02	2.18e+05	1.33e+03	1.6e+02
45	PCB-42	3.11e+05	1.29e+03	2.4e+02	3.96e+05	1.33e+03	3.0e+02
46	PCB-40/41/71	5.29e+05	1.29e+03	4.1e+02	6.74e+05	1.33e+03	5.1e+02
47	PCB-64	6.24e+05	1.29e+03	4.8e+02	8.11e+05	1.33e+03	6.1e+02

48	PCB-72	*	1.29e+03	*	*	1.33e+03	*
49	PCB-68	1.11e+04	1.29e+03	8.6e+00	1.47e+04	1.33e+03	1.1e+01
50	PCB-57	5.16e+03	1.29e+03	4.0e+00	1.29e+04	1.33e+03	9.7e+00
51	PCB-58	*	1.29e+03	*	*	1.33e+03	*
52	PCB-67	3.99e+04	1.29e+03	3.1e+01	4.97e+04	1.33e+03	3.7e+01
53	PCB-63	3.82e+04	1.29e+03	3.0e+01	5.61e+04	1.33e+03	4.2e+01
54	PCB-61/70/74/76	9.39e+05	1.29e+03	7.3e+02	1.21e+06	1.33e+03	9.1e+02
55	PCB-66	6.13e+05	1.29e+03	4.7e+02	8.02e+05	1.33e+03	6.0e+02
56	PCB-55	1.84e+04	1.29e+03	1.4e+01	2.38e+04	1.33e+03	1.8e+01
57	PCB-56	3.28e+04	1.64e+03	2.0e+01	3.64e+04	1.30e+03	2.8e+01
58	PCB-60	1.81e+05	1.64e+03	1.1e+02	2.32e+05	1.30e+03	1.8e+02
59	PCB-80	*	1.64e+03	*	*	1.30e+03	*
60	PCB-79	*	1.64e+03	*	*	1.30e+03	*
61	PCB-78	*	1.64e+03	*	*	1.30e+03	*
62	PCB-81	*	1.64e+03	*	*	1.30e+03	*
63	PCB-77	1.04e+04	1.64e+03	6.3e+00	1.65e+04	1.30e+03	1.3e+01
64	PCB-104	*	7.36e+02	*	*	8.12e+02	*
65	PCB-96	*	7.36e+02	*	*	8.12e+02	*
66	PCB-103	*	7.36e+02	*	*	8.12e+02	*
67	PCB-94	*	7.36e+02	*	*	8.12e+02	*
68	PCB-95	2.18e+05	7.36e+02	3.0e+02	1.45e+05	8.12e+02	1.8e+02
69	PCB-93/100	*	7.36e+02	*	*	8.12e+02	*
70	PCB-98/102	1.60e+04	7.36e+02	2.2e+01	1.02e+04	8.12e+02	1.3e+01
71	PCB-88/91	9.62e+03	7.36e+02	1.3e+01	6.53e+03	8.12e+02	8.0e+00
72	PCB-84	7.60e+04	7.36e+02	1.0e+02	4.94e+04	8.12e+02	6.1e+01
73	PCB-89	6.00e+03	7.36e+02	8.1e+00	6.53e+03	8.12e+02	8.0e+00
74	PCB-121	*	1.21e+03	*	*	1.28e+03	*
75	PCB-92	4.18e+04	1.21e+03	3.4e+01	3.06e+04	1.28e+03	2.4e+01
76	PCB-90/101/113	2.78e+05	1.21e+03	2.3e+02	1.72e+05	1.28e+03	1.3e+02
77	PCB-83/99	1.17e+05	1.21e+03	9.7e+01	7.19e+04	1.28e+03	5.6e+01
78	PCB-112	*	1.21e+03	*	*	1.28e+03	*
79	CB-86/87/97/109/119/125	9.23e+04	1.21e+03	7.6e+01	5.75e+04	1.28e+03	4.5e+01
80	PCB-117	*	1.21e+03	*	*	1.28e+03	*
81	PCB-85/116	5.27e+04	1.21e+03	4.4e+01	4.07e+04	1.28e+03	3.2e+01
82	PCB-110/115	1.92e+05	1.21e+03	1.6e+02	1.18e+05	1.28e+03	9.2e+01
83	PCB-82	2.12e+04	1.21e+03	1.7e+01	1.30e+04	1.28e+03	1.0e+01
84	PCB-111	*	1.21e+03	*	*	1.28e+03	*
85	PCB-120	*	1.21e+03	*	*	1.28e+03	*
86	PCB-108/124	*	9.44e+02	*	*	8.64e+02	*
87	PCB-107	*	9.44e+02	*	*	8.64e+02	*
88	PCB-123	*	9.44e+02	*	*	8.64e+02	*
89	PCB-106	*	9.44e+02	*	*	8.64e+02	*
90	PCB-118	6.20e+04	9.44e+02	6.6e+01	4.28e+04	8.64e+02	5.0e+01
91	PCB-122	*	9.44e+02	*	*	8.64e+02	*
92	PCB-114	*	9.44e+02	*	*	8.64e+02	*
93	PCB-105	1.94e+04	9.44e+02	2.1e+01	1.28e+04	8.64e+02	1.5e+01
94	PCB-127	*	9.44e+02	*	*	8.64e+02	*
95	PCB-126	*	9.44e+02	*	*	8.64e+02	*
96	PCB-155	*	7.72e+02	*	*	7.56e+02	*
97	PCB-152	*	7.72e+02	*	*	7.56e+02	*
98	PCB-150	*	7.72e+02	*	*	7.56e+02	*
99	PCB-136	2.47e+04	7.72e+02	3.2e+01	1.71e+04	7.56e+02	2.3e+01
100	PCB-145	*	7.72e+02	*	*	7.56e+02	*
101	PCB-148	*	7.72e+02	*	*	7.56e+02	*
102	PCB-135/151	3.37e+04	7.72e+02	4.4e+01	2.52e+04	7.56e+02	3.3e+01
103	PCB-154	*	7.72e+02	*	*	7.56e+02	*
104	PCB-144	5.67e+03	7.72e+02	7.3e+00	3.66e+03	7.56e+02	4.8e+00

105	PCB-147/149	7.57e+04	6.84e+02	1.1e+02	6.77e+04	1.12e+03	6.0e+01
106	PCB-134	*	6.84e+02	*	*	1.12e+03	*
107	PCB-143	*	6.84e+02	*	*	1.12e+03	*
108	PCB-139/140	*	6.84e+02	*	*	1.12e+03	*
109	PCB-131	*	6.84e+02	*	*	1.12e+03	*
110	PCB-142	*	6.84e+02	*	*	1.12e+03	*
111	PCB-132	1.36e+04	6.84e+02	2.0e+01	1.37e+04	1.12e+03	1.2e+01
112	PCB-133	*	6.84e+02	*	*	1.12e+03	*
113	PCB-165	*	6.84e+02	*	*	1.12e+03	*
114	PCB-146	6.38e+03	6.84e+02	9.3e+00	4.30e+03	1.12e+03	3.8e+00
115	PCB-161	*	6.84e+02	*	*	1.12e+03	*
116	PCB-153/168	4.92e+04	6.84e+02	7.2e+01	4.25e+04	1.12e+03	3.8e+01
117	PCB-141	1.10e+04	6.84e+02	1.6e+01	8.32e+03	1.12e+03	7.4e+00
118	PCB-130	*	6.84e+02	*	*	1.12e+03	*
119	PCB-137	*	6.84e+02	*	*	1.12e+03	*
120	PCB-164	*	6.84e+02	*	*	1.12e+03	*
121	PCB-129/138/163	2.89e+04	6.84e+02	4.2e+01	2.63e+04	1.12e+03	2.4e+01
122	PCB-160	*	6.84e+02	*	*	1.12e+03	*
123	PCB-158	*	6.84e+02	*	*	1.12e+03	*
124	PCB-128/166	*	6.84e+02	*	*	1.12e+03	*
125	PCB-159	*	7.32e+02	*	*	8.88e+02	*
126	PCB-162	*	7.32e+02	*	*	8.88e+02	*
127	PCB-167	*	7.32e+02	*	*	8.88e+02	*
128	PCB-156/157	*	7.32e+02	*	*	8.88e+02	*
129	PCB-169	*	7.32e+02	*	*	8.88e+02	*
130	PCB-188	*	7.96e+02	*	*	6.00e+02	*
131	PCB-179	1.41e+04	7.96e+02	1.8e+01	1.25e+04	6.00e+02	2.1e+01
132	PCB-184	*	7.96e+02	*	*	6.00e+02	*
133	PCB-176	4.79e+03	7.96e+02	6.0e+00	4.10e+03	6.00e+02	6.8e+00
134	PCB-186	*	7.96e+02	*	*	6.00e+02	*
135	PCB-178	2.83e+03	7.96e+02	3.6e+00	2.31e+03	6.00e+02	3.9e+00
136	PCB-175	*	7.96e+02	*	*	6.00e+02	*
137	PCB-187	1.41e+04	7.96e+02	1.8e+01	1.55e+04	6.00e+02	2.6e+01
138	PCB-182	*	7.96e+02	*	*	6.00e+02	*
139	PCB-183	6.17e+03	8.56e+02	7.2e+00	4.18e+03	7.32e+02	5.7e+00
140	PCB-185	*	8.56e+02	*	*	7.32e+02	*
141	PCB-174	5.00e+03	8.56e+02	5.8e+00	6.06e+03	7.32e+02	8.3e+00
142	PCB-177	3.98e+03	8.56e+02	4.7e+00	2.60e+03	7.32e+02	3.6e+00
143	PCB-181	*	8.56e+02	*	*	7.32e+02	*
144	PCB-171/173	*	8.56e+02	*	*	7.32e+02	*
145	PCB-172	*	8.56e+02	*	*	7.32e+02	*
146	PCB-192	*	8.56e+02	*	*	7.32e+02	*
147	PCB-180/193	4.88e+03	8.56e+02	5.7e+00	5.15e+03	7.32e+02	7.0e+00
148	PCB-191	*	8.56e+02	*	*	7.32e+02	*
149	PCB-170	*	8.56e+02	*	*	7.32e+02	*
150	PCB-190	*	8.56e+02	*	*	7.32e+02	*
151	PCB-189	*	8.56e+02	*	*	7.32e+02	*
152	PCB-202	*	4.64e+02	*	*	8.40e+02	*
153	PCB-201	*	4.64e+02	*	*	8.40e+02	*
154	PCB-204	*	4.64e+02	*	*	8.40e+02	*
155	PCB-197	*	4.64e+02	*	*	8.40e+02	*
156	PCB-200	*	4.64e+02	*	*	8.40e+02	*
157	PCB-198/199	*	4.64e+02	*	*	8.40e+02	*
158	PCB-196	*	4.64e+02	*	*	8.40e+02	*
159	PCB-203	*	4.64e+02	*	*	8.40e+02	*
160	PCB-195	*	4.64e+02	*	*	8.40e+02	*
161	PCB-194	*	4.64e+02	*	*	8.40e+02	*
162	PCB-205	*	4.64e+02	*	*	8.40e+02	*

163	PCB-208	*	5.64e+02	*	*	6.92e+02	*
164	PCB-207	*	5.64e+02	*	*	6.92e+02	*
165	PCB-206	*	1.34e+03	*	*	9.84e+02	*
166	PCB-209	4.52e+04	9.44e+02	4.8e+01	3.45e+04	1.10e+03	3.1e+01
167	PCB-1L	3.71e+05	1.34e+03	2.8e+02	1.23e+05	1.77e+04	6.9e+00
168	PCB-3L	3.62e+05	1.34e+03	2.7e+02	1.17e+05	1.77e+04	6.6e+00
169	PCB-4L	2.18e+05	1.58e+03	1.4e+02	1.40e+05	1.35e+03	1.0e+02
170	PCB-15L	2.56e+05	4.20e+03	6.1e+01	1.61e+05	8.52e+02	1.9e+02
171	PCB-19L	1.51e+05	3.12e+04	4.8e+00	1.34e+05	3.52e+04	3.8e+00
172	PCB-37L	2.12e+05	1.60e+04	1.3e+01	2.04e+05	2.33e+04	8.8e+00
173	PCB-54L	1.43e+05	3.16e+03	4.5e+01	1.80e+05	1.60e+03	1.1e+02
174	PCB-81L	1.55e+05	5.88e+03	2.6e+01	1.88e+05	1.52e+03	1.2e+02
175	PCB-77L	1.58e+05	5.88e+03	2.7e+01	1.89e+05	1.52e+03	1.2e+02
176	PCB-104L	2.19e+05	8.92e+02	2.5e+02	1.32e+05	8.12e+02	1.6e+02
177	PCB-123L	1.99e+05	2.73e+03	7.3e+01	1.31e+05	4.72e+02	2.8e+02
178	PCB-118L	2.09e+05	2.73e+03	7.7e+01	1.33e+05	4.72e+02	2.8e+02
179	PCB-114L	2.19e+05	2.73e+03	8.0e+01	1.23e+05	4.72e+02	2.6e+02
180	PCB-105L	1.92e+05	2.73e+03	7.1e+01	1.22e+05	4.72e+02	2.6e+02
181	PCB-126L	1.60e+05	2.73e+03	5.9e+01	9.80e+04	4.72e+02	2.1e+02
182	PCB-155L	2.13e+05	7.12e+02	3.0e+02	1.67e+05	7.76e+02	2.2e+02
183	PCB-167L	1.58e+05	6.92e+02	2.3e+02	1.22e+05	1.04e+03	1.2e+02
184	PCB-156/157L	2.40e+05	6.92e+02	3.5e+02	1.89e+05	1.04e+03	1.8e+02
185	PCB-169L	1.28e+05	6.92e+02	1.9e+02	1.00e+05	1.04e+03	9.7e+01
186	PCB-188L	2.22e+05	1.02e+03	2.2e+02	2.17e+05	5.64e+02	3.9e+02
187	PCB-189L	1.52e+05	8.32e+02	1.8e+02	1.39e+05	8.48e+02	1.6e+02
188	PCB-202L	1.71e+05	6.92e+02	2.5e+02	2.07e+05	7.16e+02	2.9e+02
189	PCB-205L	1.37e+05	6.92e+02	2.0e+02	1.44e+05	7.16e+02	2.0e+02
190	PCB-208L	1.31e+05	7.24e+02	1.8e+02	1.58e+05	9.04e+02	1.8e+02
191	PCB-206L	8.39e+04	1.45e+03	5.8e+01	1.15e+05	1.74e+03	6.6e+01
192	PCB-209L	1.36e+05	5.96e+02	2.3e+02	1.14e+05	6.12e+02	1.9e+02
193	PCB-28L	2.45e+05	1.60e+04	1.5e+01	2.10e+05	2.33e+04	9.0e+00
194	PCB-111L	2.46e+05	1.01e+03	2.4e+02	1.61e+05	1.04e+03	1.5e+02
195	PCB-178L	1.39e+05	1.02e+03	1.4e+02	1.29e+05	5.64e+02	2.3e+02
196	PCB-9L	3.86e+05	4.20e+03	9.2e+01	2.56e+05	8.52e+02	3.0e+02
197	PCB-52L	2.62e+05	4.29e+03	6.1e+01	3.06e+05	1.52e+03	2.0e+02
198	PCB-101L	3.31e+05	1.01e+03	3.3e+02	1.94e+05	1.04e+03	1.9e+02
199	PCB-138L	2.73e+05	7.24e+02	3.8e+02	2.05e+05	6.60e+02	3.1e+02
200	PCB-194L	1.65e+05	6.92e+02	2.4e+02	1.78e+05	7.16e+02	2.5e+02

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4-IAI-PCBS

Run #11 Filename U142152#1 Samp: 1 Inj: 1 Acquired: 21-NOV-11 16:41:04

Processed: 23-NOV-11 11:27:32 LAB. ID: E1101017-006

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	4.49e+04	1.02e+03	4.4e+01	1.62e+04	1.00e+03	1.6e+01
2	PCB-2	4.34e+04	1.02e+03	4.3e+01	1.58e+04	1.00e+03	1.6e+01
3	PCB-3	1.20e+05	1.02e+03	1.2e+02	4.31e+04	1.00e+03	4.3e+01
4	PCB-4	2.09e+05	5.10e+03	4.1e+01	1.68e+05	4.31e+04	3.9e+00
5	PCB-10	*	5.10e+03	*	*	4.31e+04	*
6	PCB-9	*	1.83e+03	*	*	5.68e+04	*
7	PCB-7	*	1.83e+03	*	*	5.68e+04	*
8	PCB-6	*	1.83e+03	*	*	5.68e+04	*
9	PCB-5	*	1.83e+03	*	*	5.68e+04	*
10	PCB-8	8.25e+05	1.83e+03	4.5e+02	5.80e+05	5.68e+04	1.0e+01
11	PCB-14	*	1.83e+03	*	*	5.68e+04	*
12	PCB-11	2.87e+06	1.83e+03	1.6e+03	1.94e+06	5.68e+04	3.4e+01
13	PCB-12/13	*	1.83e+03	*	*	5.68e+04	*
14	PCB-15	4.28e+05	1.83e+03	2.3e+02	3.37e+05	5.68e+04	5.9e+00
15	PCB-19	1.11e+05	6.40e+03	1.7e+01	1.11e+05	7.28e+02	1.5e+02
16	PCB-18/30	5.93e+05	6.40e+03	9.3e+01	5.80e+05	7.28e+02	8.0e+02
17	PCB-17	6.46e+05	6.40e+03	1.0e+02	6.36e+05	7.28e+02	8.7e+02
18	PCB-27	1.62e+05	6.40e+03	2.5e+01	1.54e+05	7.28e+02	2.1e+02
19	PCB-24	3.18e+05	6.40e+03	5.0e+01	3.34e+05	7.28e+02	4.6e+02
20	PCB-16	7.84e+05	6.40e+03	1.2e+02	7.56e+05	7.28e+02	1.0e+03
21	PCB-32	7.23e+05	6.40e+03	1.1e+02	7.10e+05	7.28e+02	9.7e+02
22	PCB-34	*	5.02e+03	*	*	3.77e+03	*
23	PCB-23	*	5.02e+03	*	*	3.77e+03	*
24	PCB-26/29	4.29e+05	5.02e+03	8.5e+01	4.16e+05	3.77e+03	1.1e+02
25	PCB-25	1.86e+05	5.02e+03	3.7e+01	1.80e+05	3.77e+03	4.8e+01
26	PCB-31	2.26e+06	5.02e+03	4.5e+02	2.21e+06	3.77e+03	5.9e+02
27	PCB-20/28	2.06e+06	5.02e+03	4.1e+02	2.05e+06	3.77e+03	5.4e+02
28	PCB-21/33	1.51e+06	5.02e+03	3.0e+02	1.56e+06	3.77e+03	4.1e+02
29	PCB-22	9.10e+05	5.02e+03	1.8e+02	8.91e+05	3.77e+03	2.4e+02
30	PCB-36	*	5.02e+03	*	*	3.77e+03	*
31	PCB-39	*	5.02e+03	*	*	3.77e+03	*
32	PCB-38	*	5.02e+03	*	*	3.77e+03	*
33	PCB-35	*	5.02e+03	*	*	3.77e+03	*
34	PCB-37	3.77e+05	5.02e+03	7.5e+01	3.93e+05	3.77e+03	1.0e+02
35	PCB-54	4.52e+03	7.16e+02	6.3e+00	5.41e+03	8.80e+02	6.1e+00
36	PCB-50/53	2.14e+05	1.29e+03	1.7e+02	2.97e+05	1.33e+03	2.2e+02
37	PCB-45/51	2.67e+05	1.29e+03	2.1e+02	3.44e+05	1.33e+03	2.6e+02
38	PCB-46	9.47e+04	1.29e+03	7.3e+01	1.26e+05	1.33e+03	9.5e+01
39	PCB-52	1.20e+06	1.29e+03	9.3e+02	1.55e+06	1.33e+03	1.2e+03
40	PCB-43/73	6.60e+04	1.29e+03	5.1e+01	7.78e+04	1.33e+03	5.8e+01
41	PCB-49/69	7.72e+05	1.29e+03	6.0e+02	1.00e+06	1.33e+03	7.5e+02
42	PCB-48	4.00e+05	1.29e+03	3.1e+02	5.16e+05	1.33e+03	3.9e+02
43	PCB-44/47/65	9.89e+05	1.29e+03	7.7e+02	1.33e+06	1.33e+03	1.0e+03
44	PCB-59/62/75	1.63e+05	1.29e+03	1.3e+02	2.18e+05	1.33e+03	1.6e+02
45	PCB-42	3.11e+05	1.29e+03	2.4e+02	3.96e+05	1.33e+03	3.0e+02
46	PCB-40/41/71	5.29e+05	1.29e+03	4.1e+02	6.74e+05	1.33e+03	5.1e+02
47	PCB-64	6.24e+05	1.29e+03	4.8e+02	8.11e+05	1.33e+03	6.1e+02

48	PCB-72	*	1.29e+03	*	*	1.33e+03	*
49	PCB-68	1.11e+04	1.29e+03	8.6e+00	1.47e+04	1.33e+03	1.1e+01
50	PCB-57	5.16e+03	1.29e+03	4.0e+00	1.29e+04	1.33e+03	9.7e+00
51	PCB-58	*	1.29e+03	*	*	1.33e+03	*
52	PCB-67	3.99e+04	1.29e+03	3.1e+01	4.97e+04	1.33e+03	3.7e+01
53	PCB-63	3.82e+04	1.29e+03	3.0e+01	5.61e+04	1.33e+03	4.2e+01
54	PCB-61/70/74/76	9.39e+05	1.29e+03	7.3e+02	1.21e+06	1.33e+03	9.1e+02
55	PCB-66	6.13e+05	1.29e+03	4.7e+02	8.02e+05	1.33e+03	6.0e+02
56	PCB-55	1.84e+04	1.29e+03	1.4e+01	2.38e+04	1.33e+03	1.8e+01
57	PCB-56	3.28e+04	1.64e+03	2.0e+01	3.64e+04	1.30e+03	2.8e+01
58	PCB-60	1.81e+05	1.64e+03	1.1e+02	2.32e+05	1.30e+03	1.8e+02
59	PCB-80	*	1.64e+03	*	*	1.30e+03	*
60	PCB-79	*	1.64e+03	*	*	1.30e+03	*
61	PCB-78	*	1.64e+03	*	*	1.30e+03	*
62	PCB-81	*	1.64e+03	*	*	1.30e+03	*
63	PCB-77	1.04e+04	1.64e+03	6.3e+00	1.65e+04	1.30e+03	1.3e+01
64	PCB-104	*	7.36e+02	*	*	8.12e+02	*
65	PCB-96	*	7.36e+02	*	*	8.12e+02	*
66	PCB-103	*	7.36e+02	*	*	8.12e+02	*
67	PCB-94	*	7.36e+02	*	*	8.12e+02	*
68	PCB-95	2.18e+05	7.36e+02	3.0e+02	1.45e+05	8.12e+02	1.8e+02
69	PCB-93/100	*	7.36e+02	*	*	8.12e+02	*
70	PCB-98/102	1.60e+04	7.36e+02	2.2e+01	1.02e+04	8.12e+02	1.3e+01
71	PCB-88/91	*	7.36e+02	*	*	8.12e+02	*
72	PCB-84	7.60e+04	7.36e+02	1.0e+02	4.94e+04	8.12e+02	6.1e+01
73	PCB-89	6.00e+03	7.36e+02	8.1e+00	6.53e+03	8.12e+02	8.0e+00
74	PCB-121	*	1.21e+03	*	*	1.28e+03	*
75	PCB-92	4.18e+04	1.21e+03	3.4e+01	3.06e+04	1.28e+03	2.4e+01
76	PCB-90/101/113	2.78e+05	1.21e+03	2.3e+02	1.72e+05	1.28e+03	1.3e+02
77	PCB-83/99	1.17e+05	1.21e+03	9.7e+01	7.19e+04	1.28e+03	5.6e+01
78	PCB-112	*	1.21e+03	*	*	1.28e+03	*
79	CB-86/87/97/109/119/125	9.23e+04	1.21e+03	7.6e+01	5.75e+04	1.28e+03	4.5e+01
80	PCB-117	*	1.21e+03	*	*	1.28e+03	*
81	PCB-85/116	5.27e+04	1.21e+03	4.4e+01	4.07e+04	1.28e+03	3.2e+01
82	PCB-110/115	1.92e+05	1.21e+03	1.6e+02	1.18e+05	1.28e+03	9.2e+01
83	PCB-82	2.12e+04	1.21e+03	1.7e+01	1.30e+04	1.28e+03	1.0e+01
84	PCB-111	*	1.21e+03	*	*	1.28e+03	*
85	PCB-120	*	1.21e+03	*	*	1.28e+03	*
86	PCB-108/124	*	9.44e+02	*	*	8.64e+02	*
87	PCB-107	*	9.44e+02	*	*	8.64e+02	*
88	PCB-123	*	9.44e+02	*	*	8.64e+02	*
89	PCB-106	*	9.44e+02	*	*	8.64e+02	*
90	PCB-118	6.20e+04	9.44e+02	6.6e+01	4.28e+04	8.64e+02	5.0e+01
91	PCB-122	*	9.44e+02	*	*	8.64e+02	*
92	PCB-114	*	9.44e+02	*	*	8.64e+02	*
93	PCB-105	1.94e+04	9.44e+02	2.1e+01	1.28e+04	8.64e+02	1.5e+01
94	PCB-127	*	9.44e+02	*	*	8.64e+02	*
95	PCB-126	*	9.44e+02	*	*	8.64e+02	*
96	PCB-155	*	7.72e+02	*	*	7.56e+02	*
97	PCB-152	*	7.72e+02	*	*	7.56e+02	*
98	PCB-150	*	7.72e+02	*	*	7.56e+02	*
99	PCB-136	2.47e+04	7.72e+02	3.2e+01	1.71e+04	7.56e+02	2.3e+01
100	PCB-145	*	7.72e+02	*	*	7.56e+02	*
101	PCB-148	*	7.72e+02	*	*	7.56e+02	*
102	PCB-135/151	3.37e+04	7.72e+02	4.4e+01	2.52e+04	7.56e+02	3.3e+01
103	PCB-154	*	7.72e+02	*	*	7.56e+02	*
104	PCB-144	5.67e+03	7.72e+02	7.3e+00	3.66e+03	7.56e+02	4.8e+00

Run #11 Filename U142152#1 Samp: 1 Acquired: 21-NOV-11 16:41:04

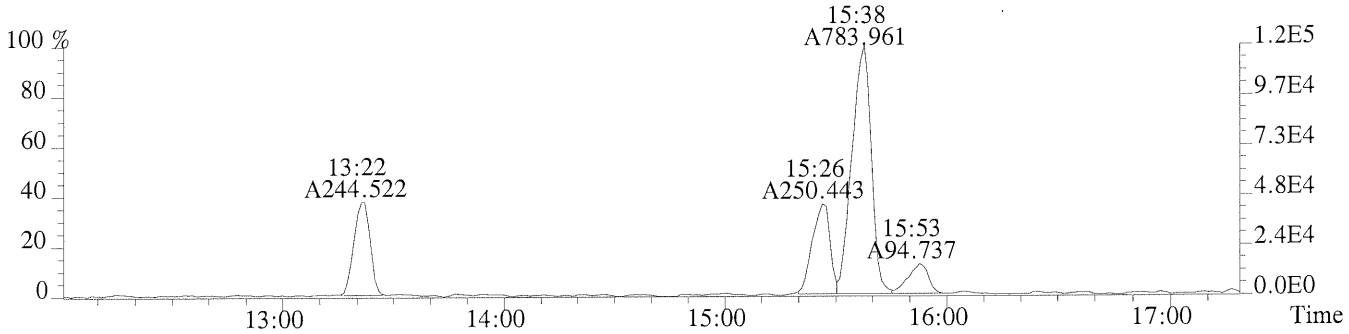
105	PCB-147/149	7.57e+04	6.84e+02	1.1e+02	6.77e+04	1.12e+03	6.0e+01
106	PCB-134	*	6.84e+02	*	*	1.12e+03	*
107	PCB-143	*	6.84e+02	*	*	1.12e+03	*
108	PCB-139/140	*	6.84e+02	*	*	1.12e+03	*
109	PCB-131	*	6.84e+02	*	*	1.12e+03	*
110	PCB-142	*	6.84e+02	*	*	1.12e+03	*
111	PCB-132	1.36e+04	6.84e+02	2.0e+01	1.37e+04	1.12e+03	1.2e+01
112	PCB-133	*	6.84e+02	*	*	1.12e+03	*
113	PCB-165	*	6.84e+02	*	*	1.12e+03	*
114	PCB-146	6.38e+03	6.84e+02	9.3e+00	4.30e+03	1.12e+03	3.8e+00
115	PCB-161	*	6.84e+02	*	*	1.12e+03	*
116	PCB-153/168	4.92e+04	6.84e+02	7.2e+01	4.25e+04	1.12e+03	3.8e+01
117	PCB-141	1.10e+04	6.84e+02	1.6e+01	8.32e+03	1.12e+03	7.4e+00
118	PCB-130	*	6.84e+02	*	*	1.12e+03	*
119	PCB-137	*	6.84e+02	*	*	1.12e+03	*
120	PCB-164	*	6.84e+02	*	*	1.12e+03	*
121	PCB-129/138/163	2.89e+04	6.84e+02	4.2e+01	2.63e+04	1.12e+03	2.4e+01
122	PCB-160	*	6.84e+02	*	*	1.12e+03	*
123	PCB-158	*	6.84e+02	*	*	1.12e+03	*
124	PCB-128/166	*	6.84e+02	*	*	1.12e+03	*
125	PCB-159	*	7.32e+02	*	*	8.88e+02	*
126	PCB-162	*	7.32e+02	*	*	8.88e+02	*
127	PCB-167	*	7.32e+02	*	*	8.88e+02	*
128	PCB-156/157	*	7.32e+02	*	*	8.88e+02	*
129	PCB-169	*	7.32e+02	*	*	8.88e+02	*
130	PCB-188	*	7.96e+02	*	*	6.00e+02	*
131	PCB-179	1.41e+04	7.96e+02	1.8e+01	1.25e+04	6.00e+02	2.1e+01
132	PCB-184	*	7.96e+02	*	*	6.00e+02	*
133	PCB-176	4.79e+03	7.96e+02	6.0e+00	4.10e+03	6.00e+02	6.8e+00
134	PCB-186	*	7.96e+02	*	*	6.00e+02	*
135	PCB-178	2.83e+03	7.96e+02	3.6e+00	2.31e+03	6.00e+02	3.9e+00
136	PCB-175	*	7.96e+02	*	*	6.00e+02	*
137	PCB-187	1.41e+04	7.96e+02	1.8e+01	1.55e+04	6.00e+02	2.6e+01
138	PCB-182	*	7.96e+02	*	*	6.00e+02	*
139	PCB-183	6.17e+03	8.56e+02	7.2e+00	4.18e+03	7.32e+02	5.7e+00
140	PCB-185	*	8.56e+02	*	*	7.32e+02	*
141	PCB-174	5.00e+03	8.56e+02	5.8e+00	6.06e+03	7.32e+02	8.3e+00
142	PCB-177	3.98e+03	8.56e+02	4.7e+00	2.60e+03	7.32e+02	3.6e+00
143	PCB-181	*	8.56e+02	*	*	7.32e+02	*
144	PCB-171/173	*	8.56e+02	*	*	7.32e+02	*
145	PCB-172	*	8.56e+02	*	*	7.32e+02	*
146	PCB-192	*	8.56e+02	*	*	7.32e+02	*
147	PCB-180/193	4.88e+03	8.56e+02	5.7e+00	5.15e+03	7.32e+02	7.0e+00
148	PCB-191	*	8.56e+02	*	*	7.32e+02	*
149	PCB-170	*	8.56e+02	*	*	7.32e+02	*
150	PCB-190	*	8.56e+02	*	*	7.32e+02	*
151	PCB-189	*	8.56e+02	*	*	7.32e+02	*
152	PCB-202	*	4.64e+02	*	*	8.40e+02	*
153	PCB-201	*	4.64e+02	*	*	8.40e+02	*
154	PCB-204	*	4.64e+02	*	*	8.40e+02	*
155	PCB-197	*	4.64e+02	*	*	8.40e+02	*
156	PCB-200	*	4.64e+02	*	*	8.40e+02	*
157	PCB-198/199	*	4.64e+02	*	*	8.40e+02	*
158	PCB-196	*	4.64e+02	*	*	8.40e+02	*
159	PCB-203	*	4.64e+02	*	*	8.40e+02	*
160	PCB-195	*	4.64e+02	*	*	8.40e+02	*
161	PCB-194	*	4.64e+02	*	*	8.40e+02	*
162	PCB-205	*	4.64e+02	*	*	8.40e+02	*

Run #11 Filename U142152#1 Samp: 1 Acquired: 21-NOV-11 16:41:04

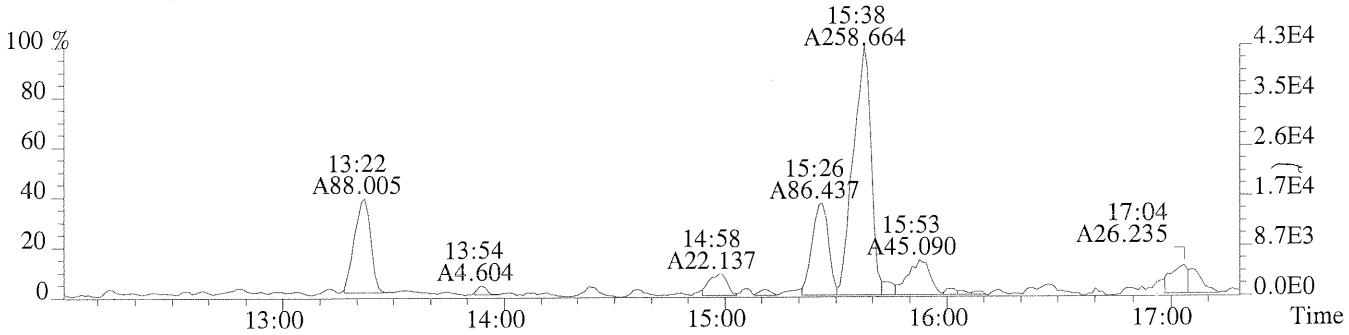
163	PCB-208	*	5.64e+02	*	*	6.92e+02	*
164	PCB-207	*	5.64e+02	*	*	6.92e+02	*
165	PCB-206	*	1.34e+03	*	*	9.84e+02	*
166	PCB-209	4.52e+04	9.44e+02	4.8e+01	3.45e+04	1.10e+03	3.1e+01
167	PCB-1L	3.71e+05	1.34e+03	2.8e+02	1.23e+05	1.77e+04	6.9e+00
168	PCB-3L	3.62e+05	1.34e+03	2.7e+02	1.17e+05	1.77e+04	6.6e+00
169	PCB-4L	2.18e+05	1.58e+03	1.4e+02	1.40e+05	1.35e+03	1.0e+02
170	PCB-15L	2.56e+05	4.20e+03	6.1e+01	1.61e+05	8.52e+02	1.9e+02
171	PCB-19L	1.51e+05	3.12e+04	4.8e+00	1.34e+05	3.52e+04	3.8e+00
172	PCB-37L	2.12e+05	1.60e+04	1.3e+01	2.04e+05	2.33e+04	8.8e+00
173	PCB-54L	1.43e+05	3.16e+03	4.5e+01	1.80e+05	1.60e+03	1.1e+02
174	PCB-81L	1.55e+05	5.88e+03	2.6e+01	1.88e+05	1.52e+03	1.2e+02
175	PCB-77L	1.58e+05	5.88e+03	2.7e+01	1.89e+05	1.52e+03	1.2e+02
176	PCB-104L	2.19e+05	8.92e+02	2.5e+02	1.32e+05	8.12e+02	1.6e+02
177	PCB-123L	1.99e+05	2.73e+03	7.3e+01	1.31e+05	4.72e+02	2.8e+02
178	PCB-118L	2.09e+05	2.73e+03	7.7e+01	1.33e+05	4.72e+02	2.8e+02
179	PCB-114L	2.19e+05	2.73e+03	8.0e+01	1.23e+05	4.72e+02	2.6e+02
180	PCB-105L	1.92e+05	2.73e+03	7.1e+01	1.22e+05	4.72e+02	2.6e+02
181	PCB-126L	1.60e+05	2.73e+03	5.9e+01	9.80e+04	4.72e+02	2.1e+02
182	PCB-155L	2.13e+05	7.12e+02	3.0e+02	1.67e+05	7.76e+02	2.2e+02
183	PCB-167L	1.58e+05	6.92e+02	2.3e+02	1.22e+05	1.04e+03	1.2e+02
184	PCB-156/157L	2.40e+05	6.92e+02	3.5e+02	1.89e+05	1.04e+03	1.8e+02
185	PCB-169L	1.28e+05	6.92e+02	1.9e+02	1.00e+05	1.04e+03	9.7e+01
186	PCB-188L	2.22e+05	1.02e+03	2.2e+02	2.17e+05	5.64e+02	3.9e+02
187	PCB-189L	1.52e+05	8.32e+02	1.8e+02	1.39e+05	8.48e+02	1.6e+02
188	PCB-202L	1.71e+05	6.92e+02	2.5e+02	2.07e+05	7.16e+02	2.9e+02
189	PCB-205L	1.65e+05	6.92e+02	2.4e+02	1.78e+05	7.16e+02	2.5e+02
190	PCB-208L	1.31e+05	7.24e+02	1.8e+02	1.58e+05	9.04e+02	1.8e+02
191	PCB-206L	8.39e+04	1.45e+03	5.8e+01	1.15e+05	1.74e+03	6.6e+01
192	PCB-209L	1.36e+05	5.96e+02	2.3e+02	1.14e+05	6.12e+02	1.9e+02
193	PCB-28L	2.45e+05	1.60e+04	1.5e+01	2.10e+05	2.33e+04	9.0e+00
194	PCB-111L	2.46e+05	1.01e+03	2.4e+02	1.61e+05	1.04e+03	1.5e+02
195	PCB-178L	1.39e+05	1.02e+03	1.4e+02	1.29e+05	5.64e+02	2.3e+02
196	PCB-9L	3.86e+05	4.20e+03	9.2e+01	2.56e+05	8.52e+02	3.0e+02
197	PCB-52L	2.62e+05	4.29e+03	6.1e+01	3.06e+05	1.52e+03	2.0e+02
198	PCB-101L	3.31e+05	1.01e+03	3.3e+02	1.94e+05	1.04e+03	1.9e+02
199	PCB-138L	2.73e+05	7.24e+02	3.8e+02	2.05e+05	6.60e+02	3.1e+02
200	PCB-194L	1.65e+05	6.92e+02	2.4e+02	1.78e+05	7.16e+02	2.5e+02

File:U142152 #1-341 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs

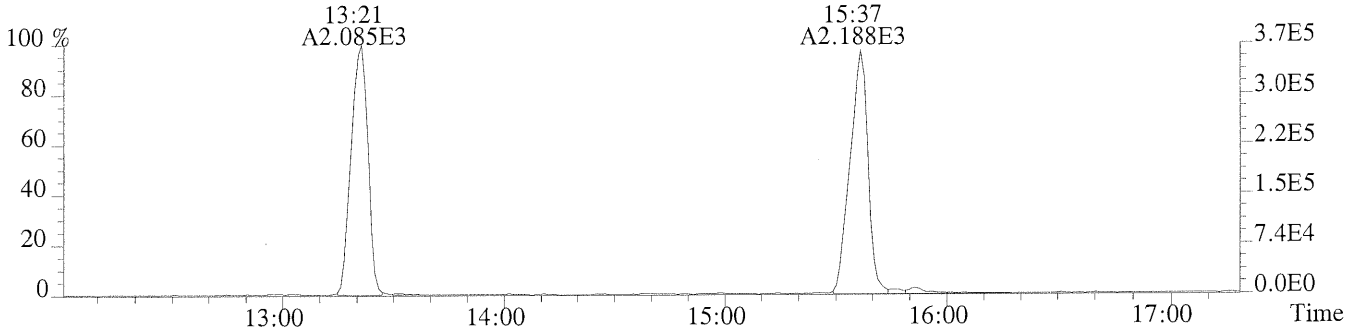
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1020.0,1.00%,F,T)



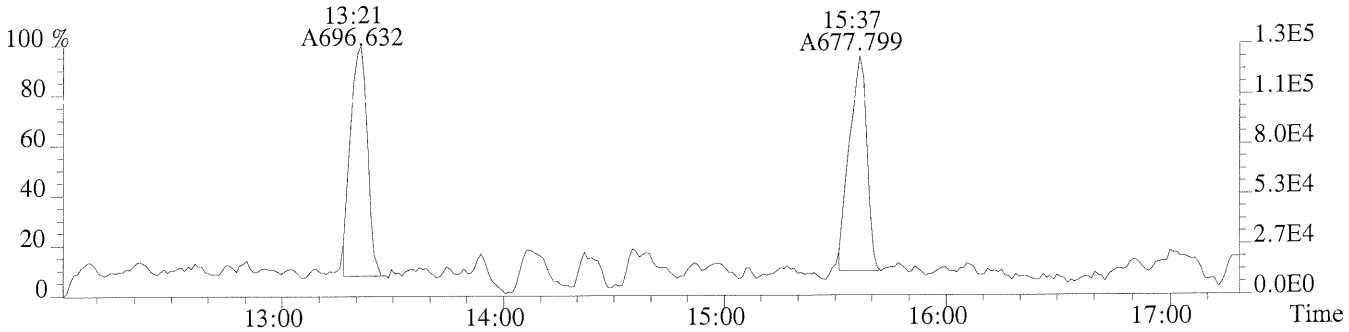
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)



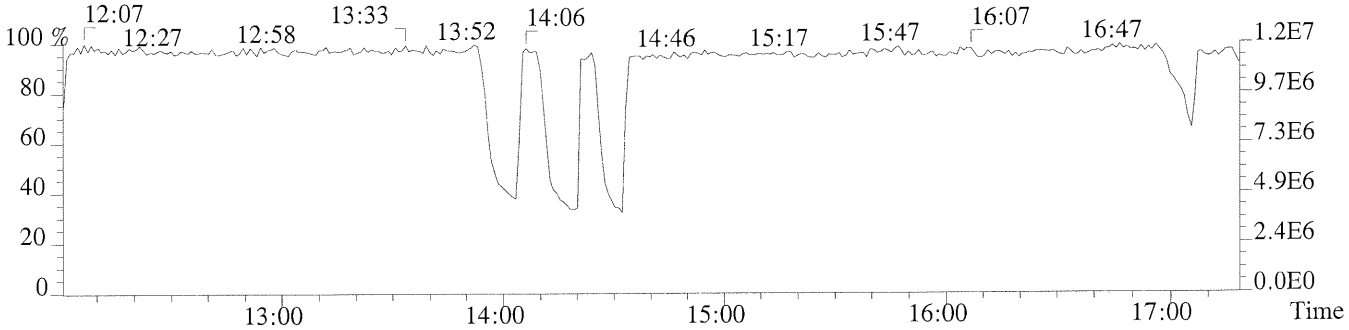
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1336.0,1.00%,F,T)



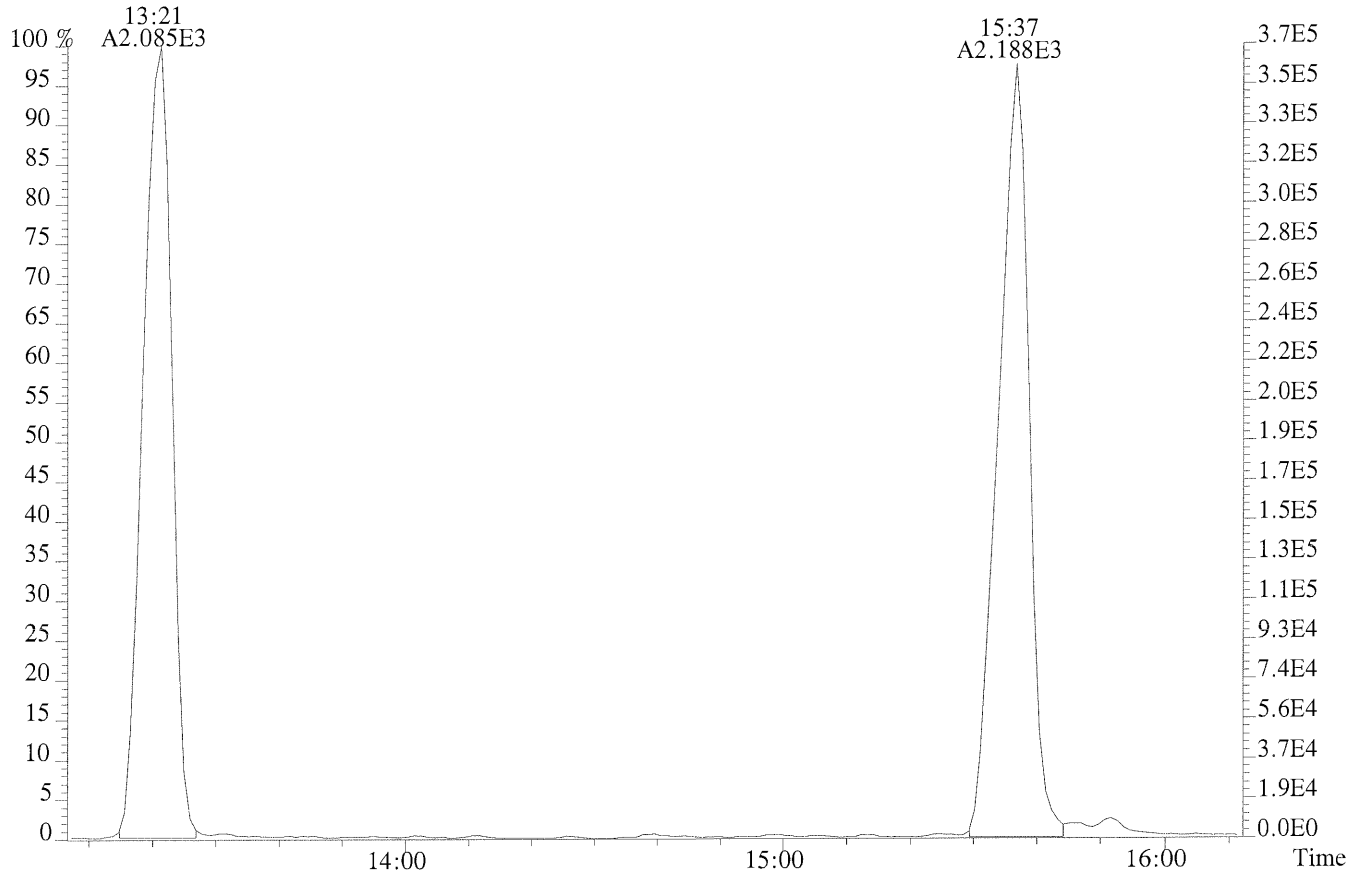
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17700.0,1.00%,F,T)



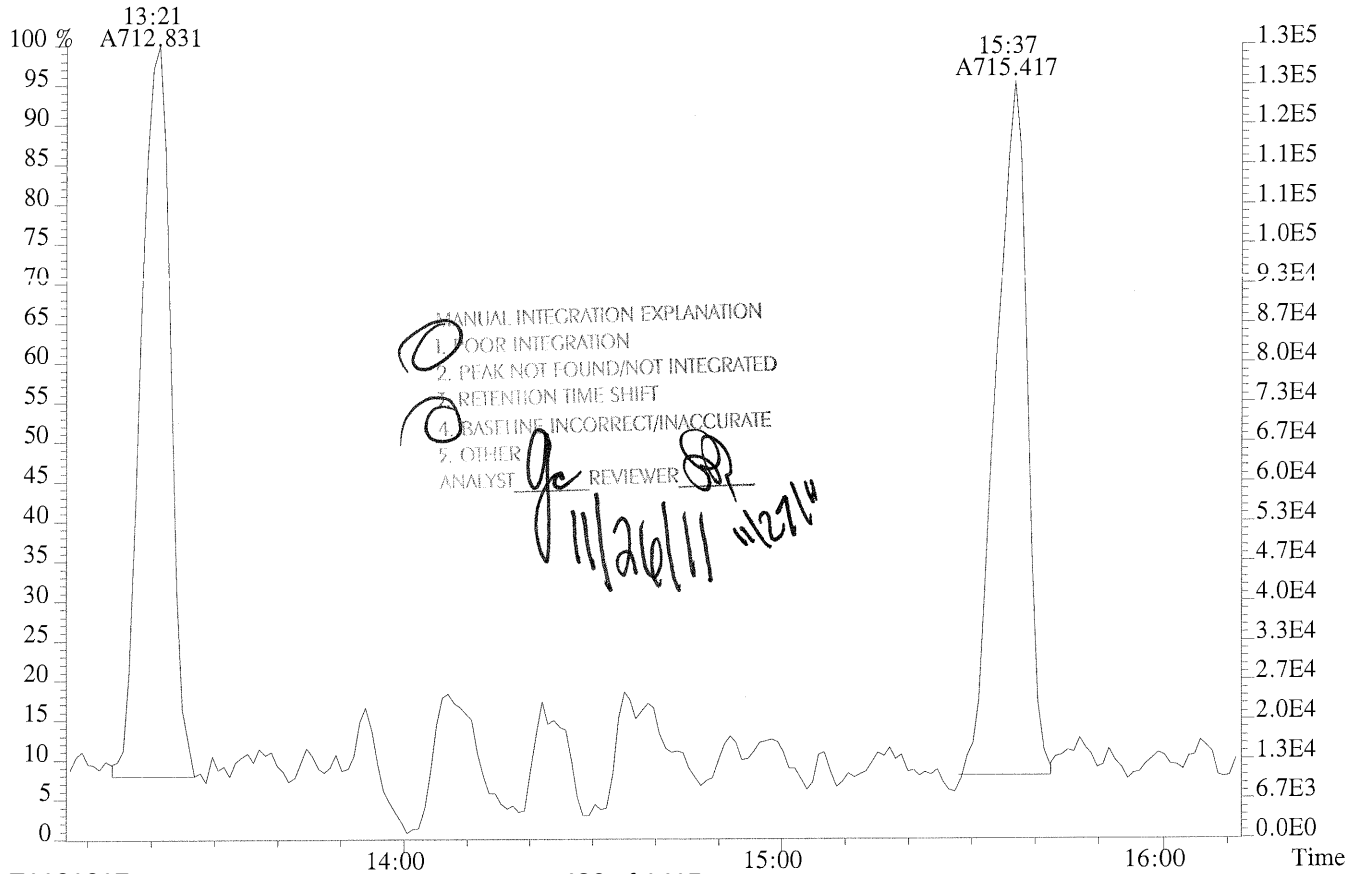
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142152 #1-341 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1336.0,1.00%,F,T)

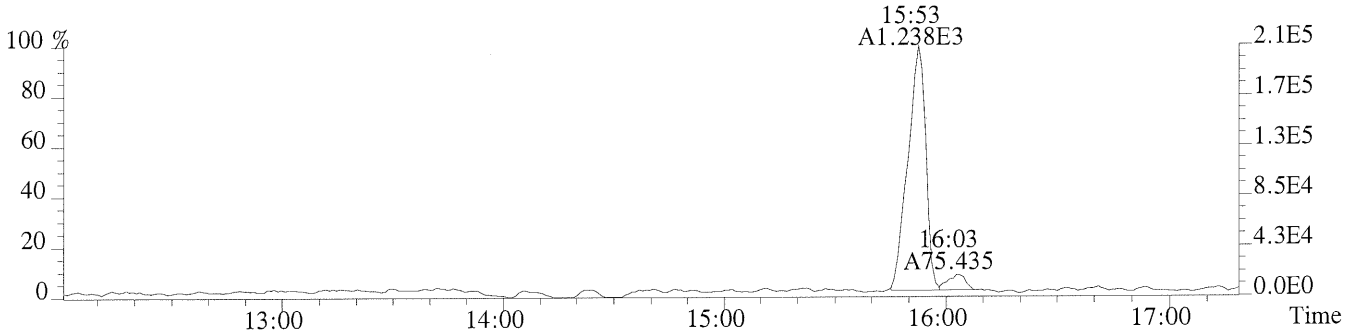


202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17700.0,1.00%,F,T)

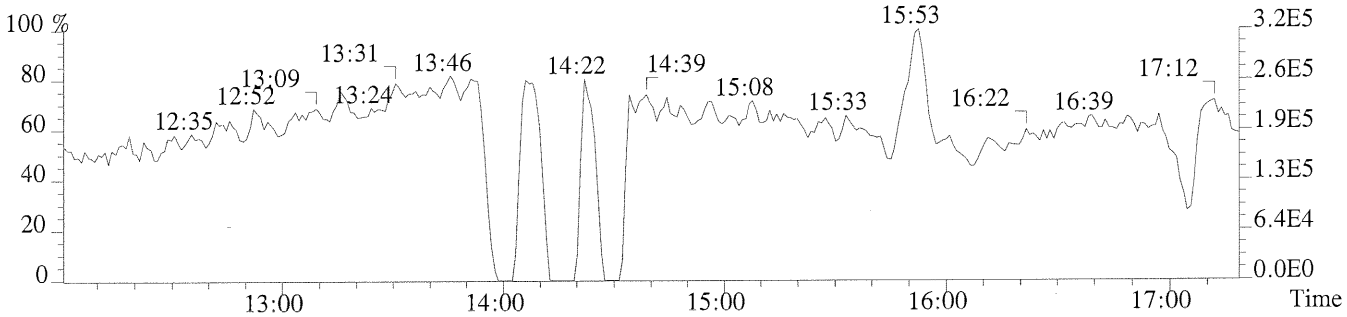


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST JC REVIEWER
11/26/11 11/27/11

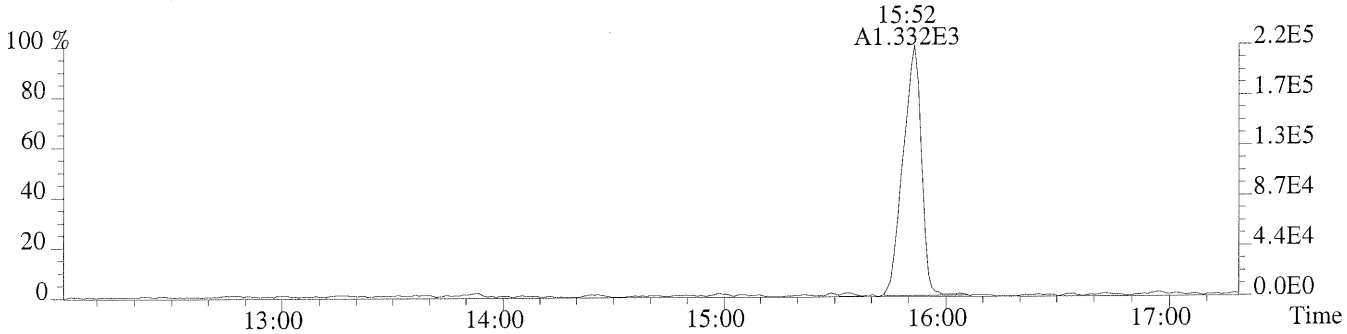
File:U142152 #1-341 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6552.0,1.00%,F,T)



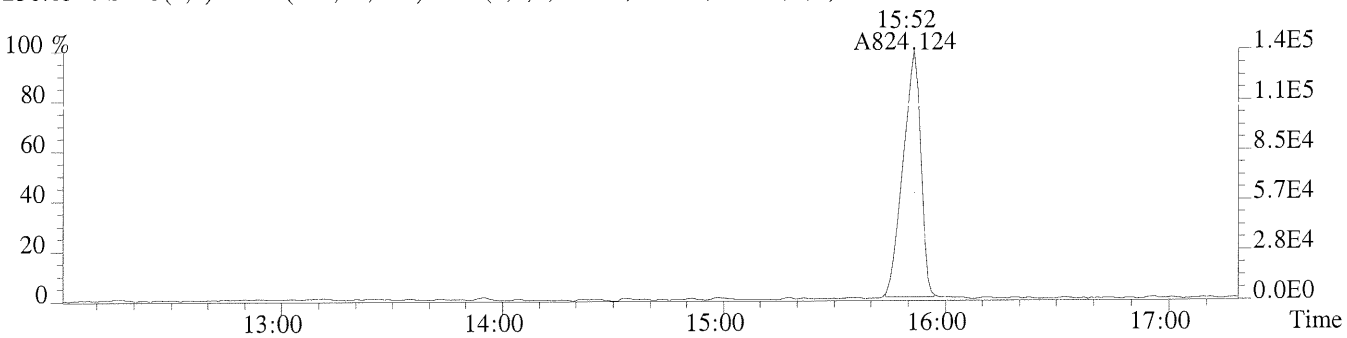
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,249796.0,1.00%,F,T)



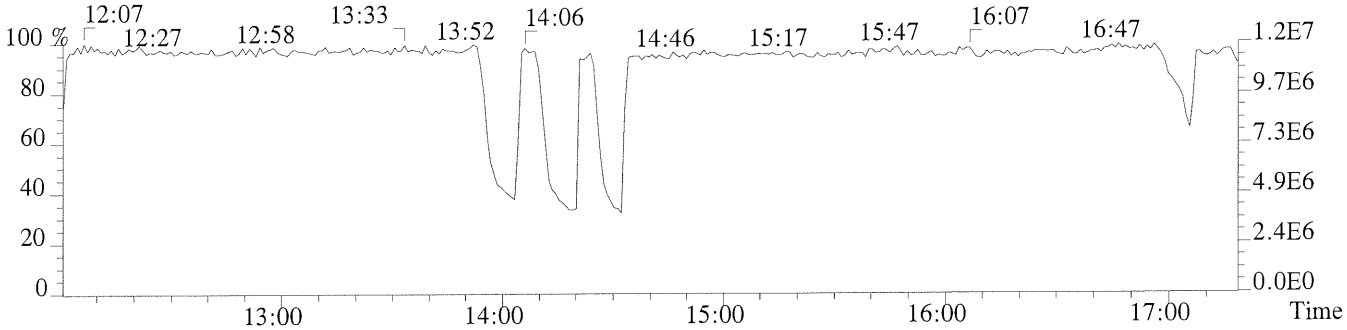
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1580.0,1.00%,F,T)



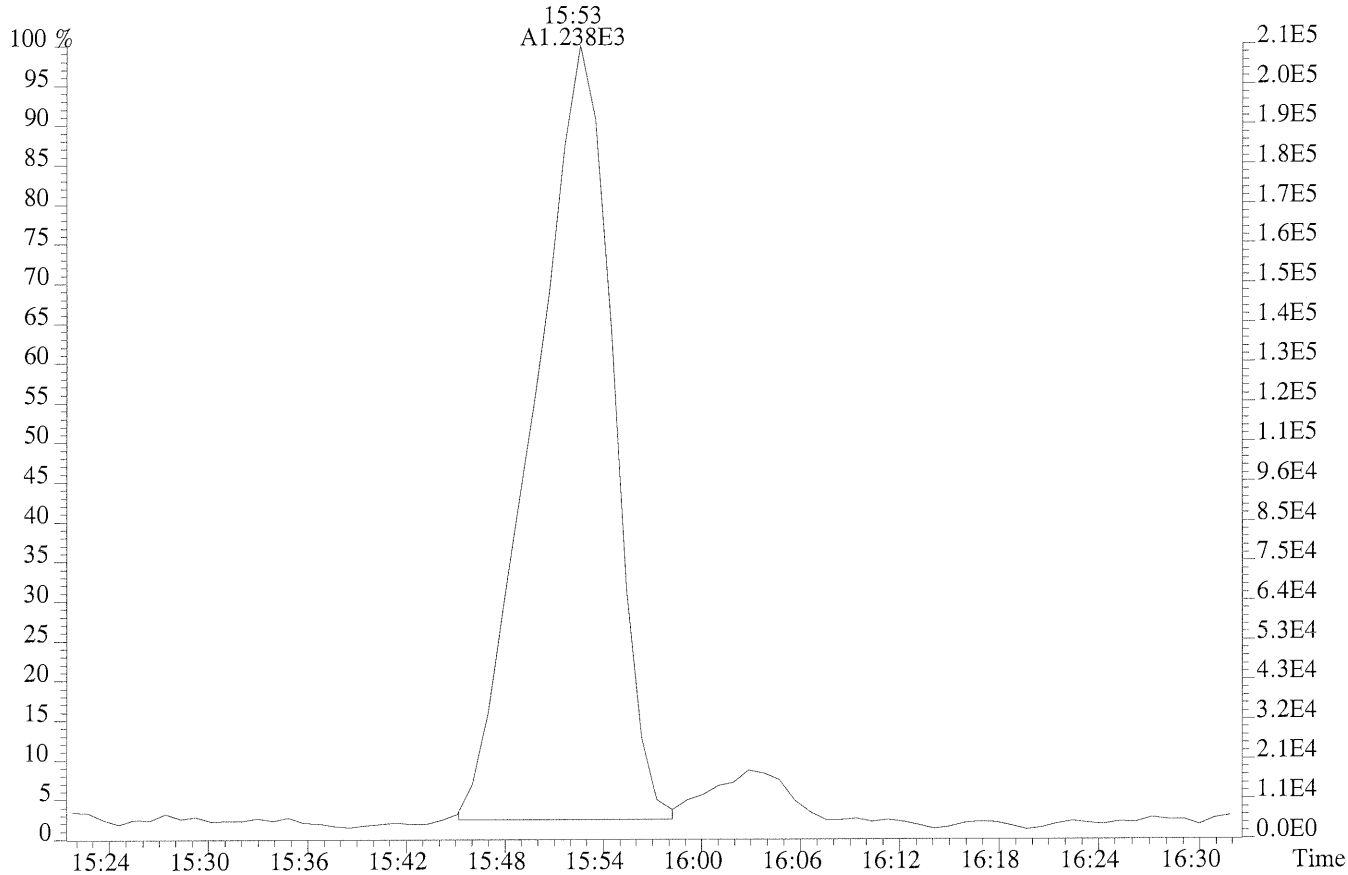
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1348.0,1.00%,F,T)



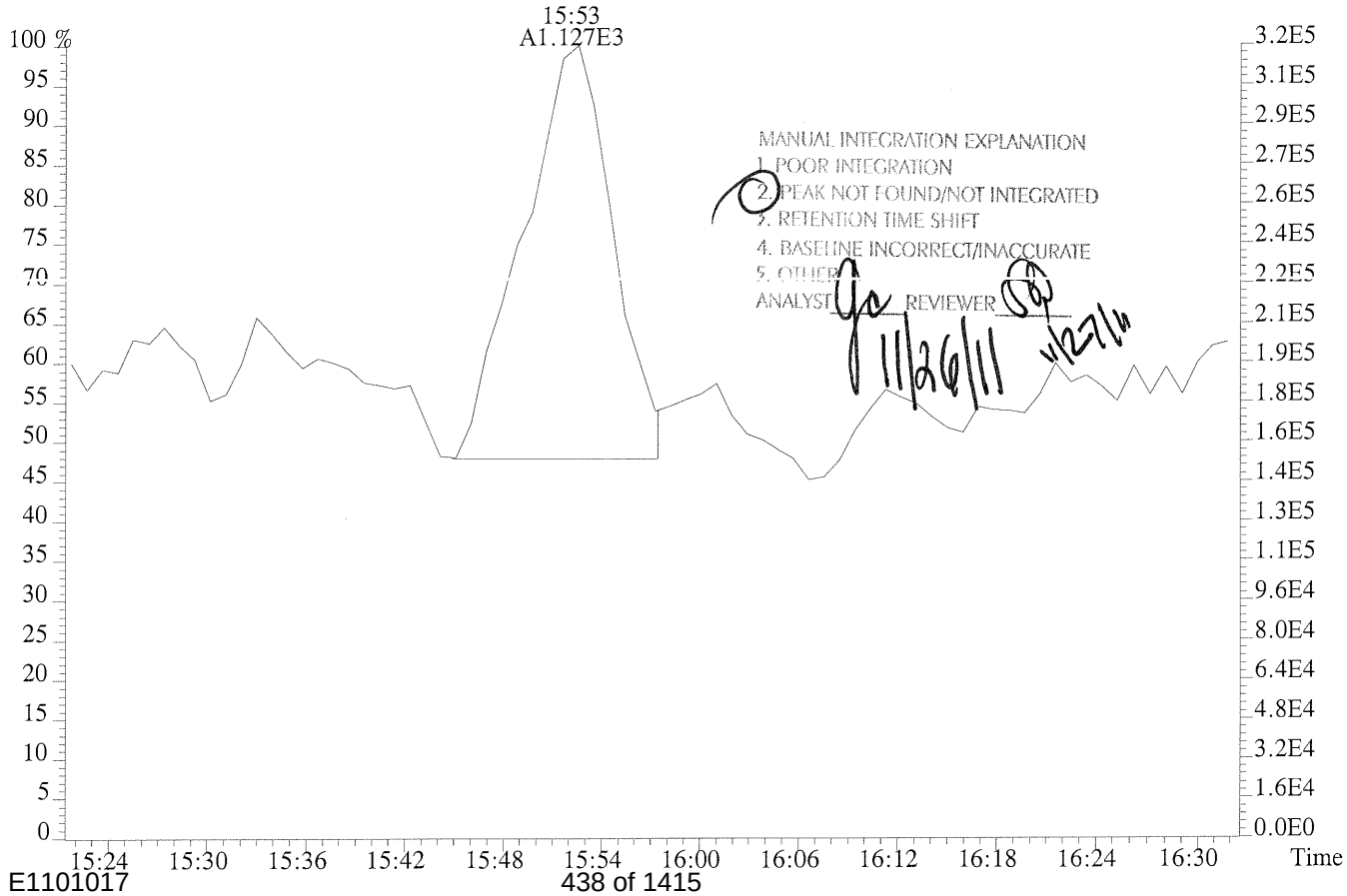
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142152 #1-341 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6552.0,1.00%,F,T)

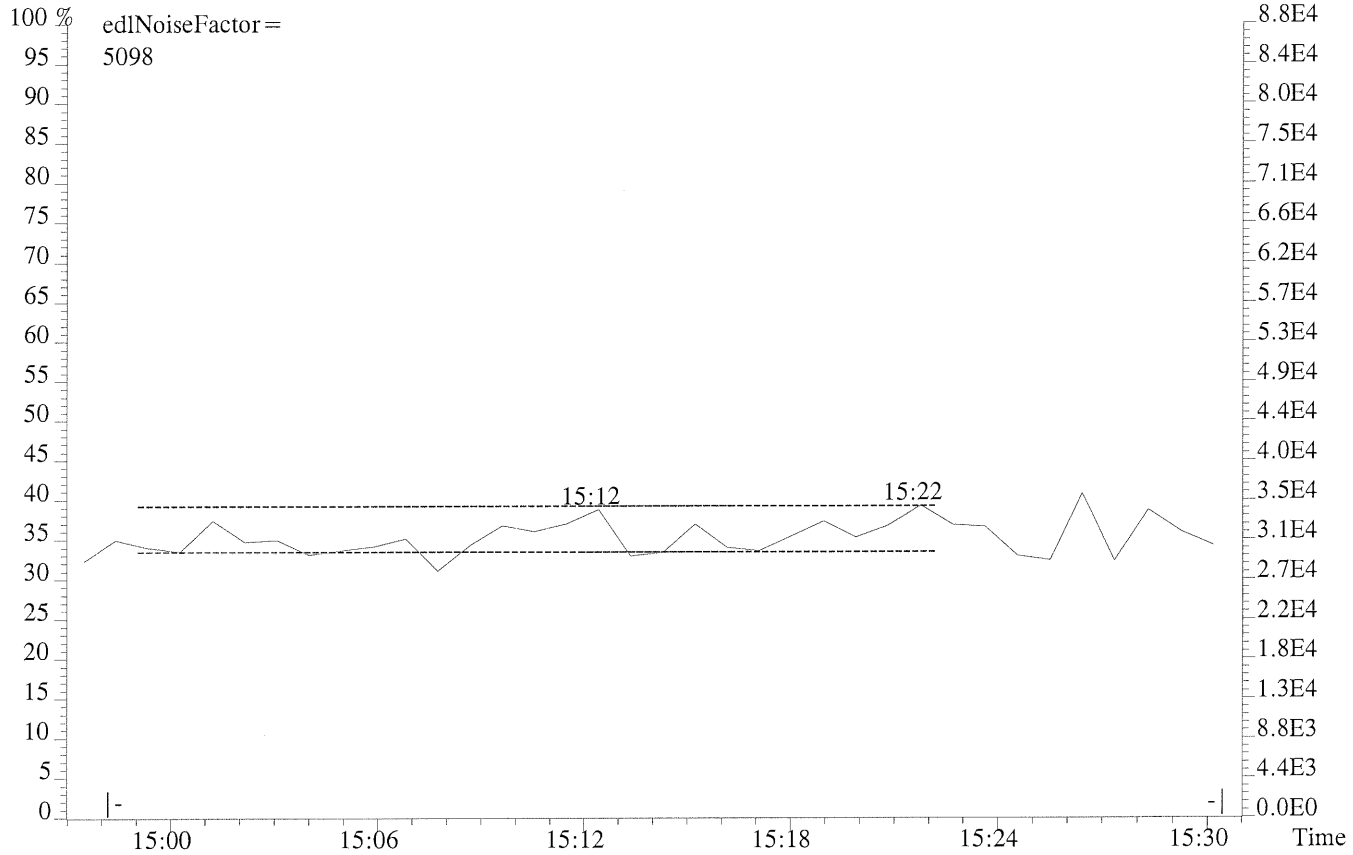


223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,249796.0,1.00%,F,T)

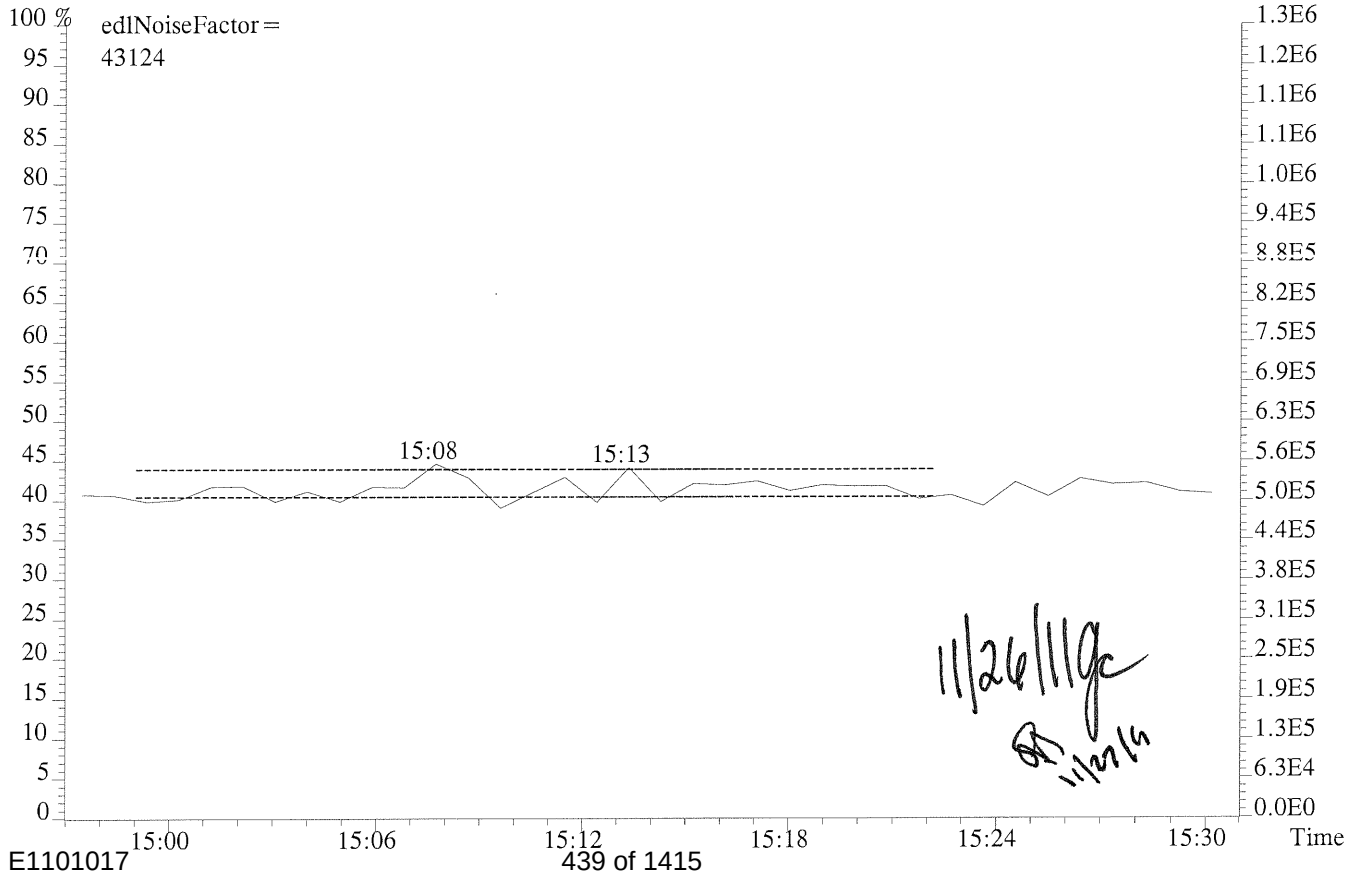


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST JC 11/26/11 REVIEWER SB 11/27/11

File:U142152 #1-341 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
222.0003

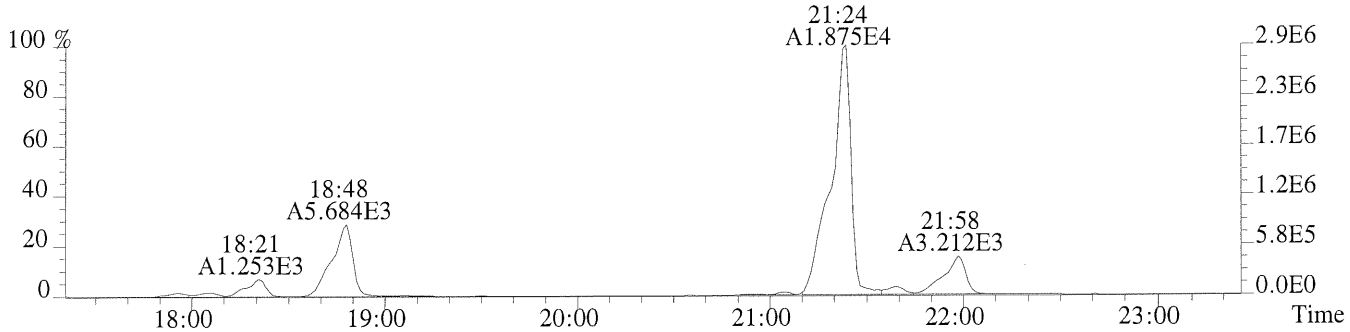


223.9974

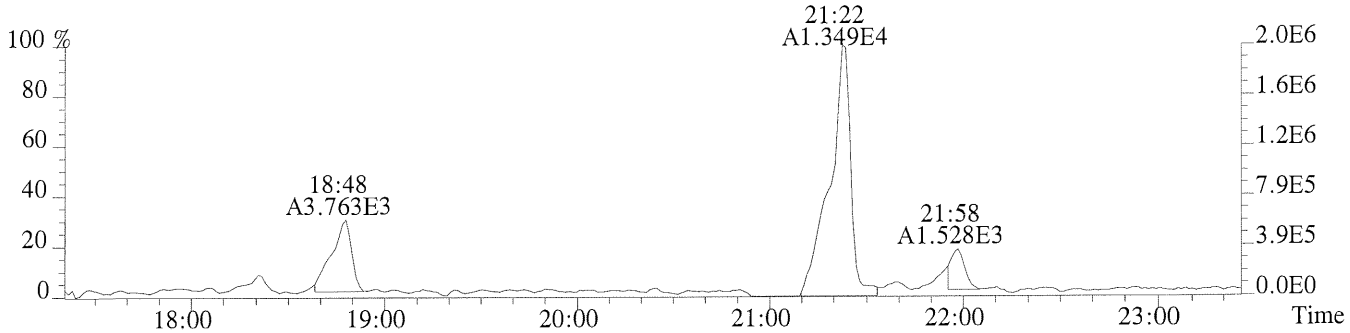


11/26/11 gc
11/27/11

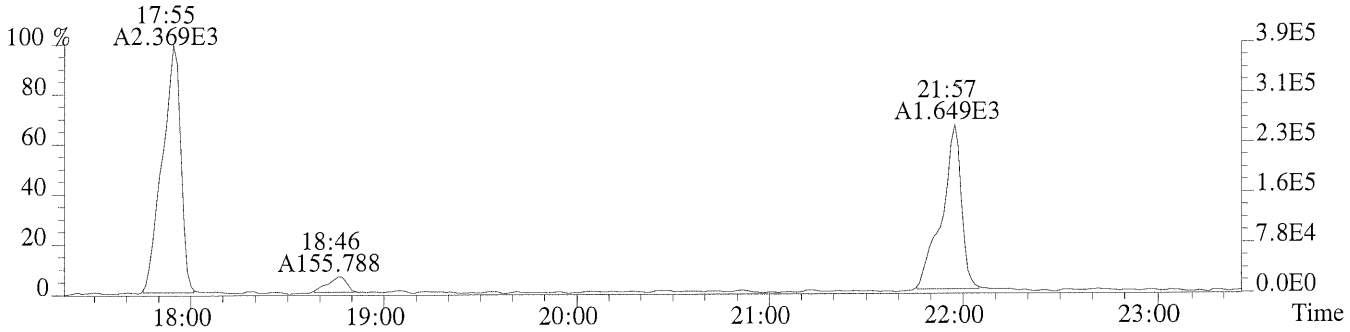
File:U142152 #1-336 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2276.0,1.00%,F,T)



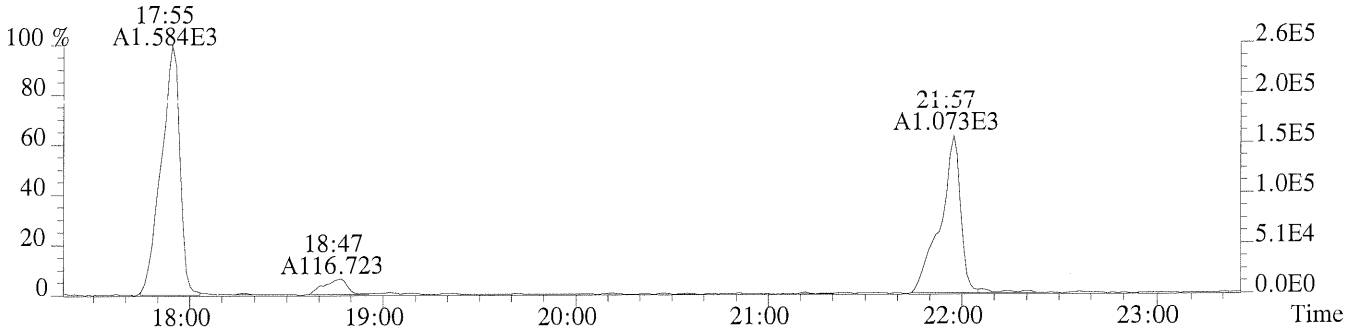
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,61492.0,1.00%,F,T)



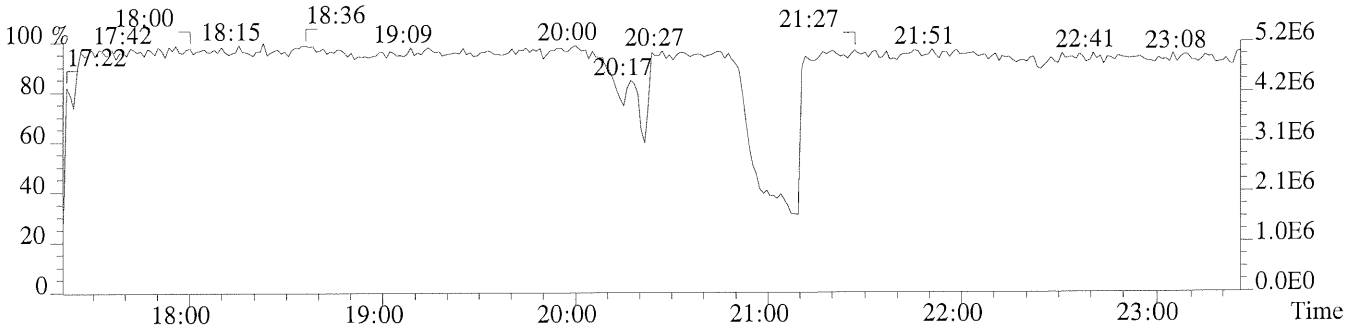
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4196.0,1.00%,F,T)



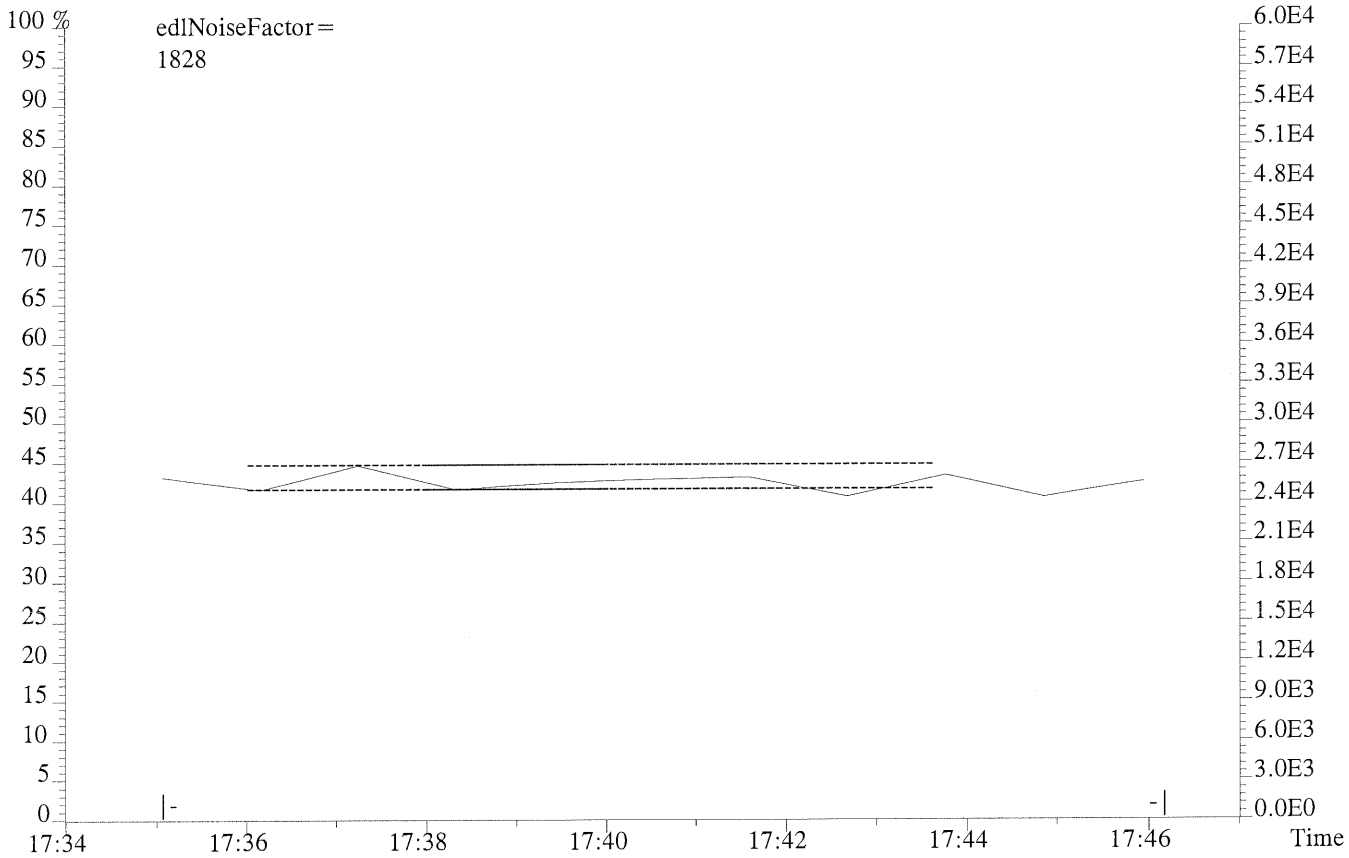
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)



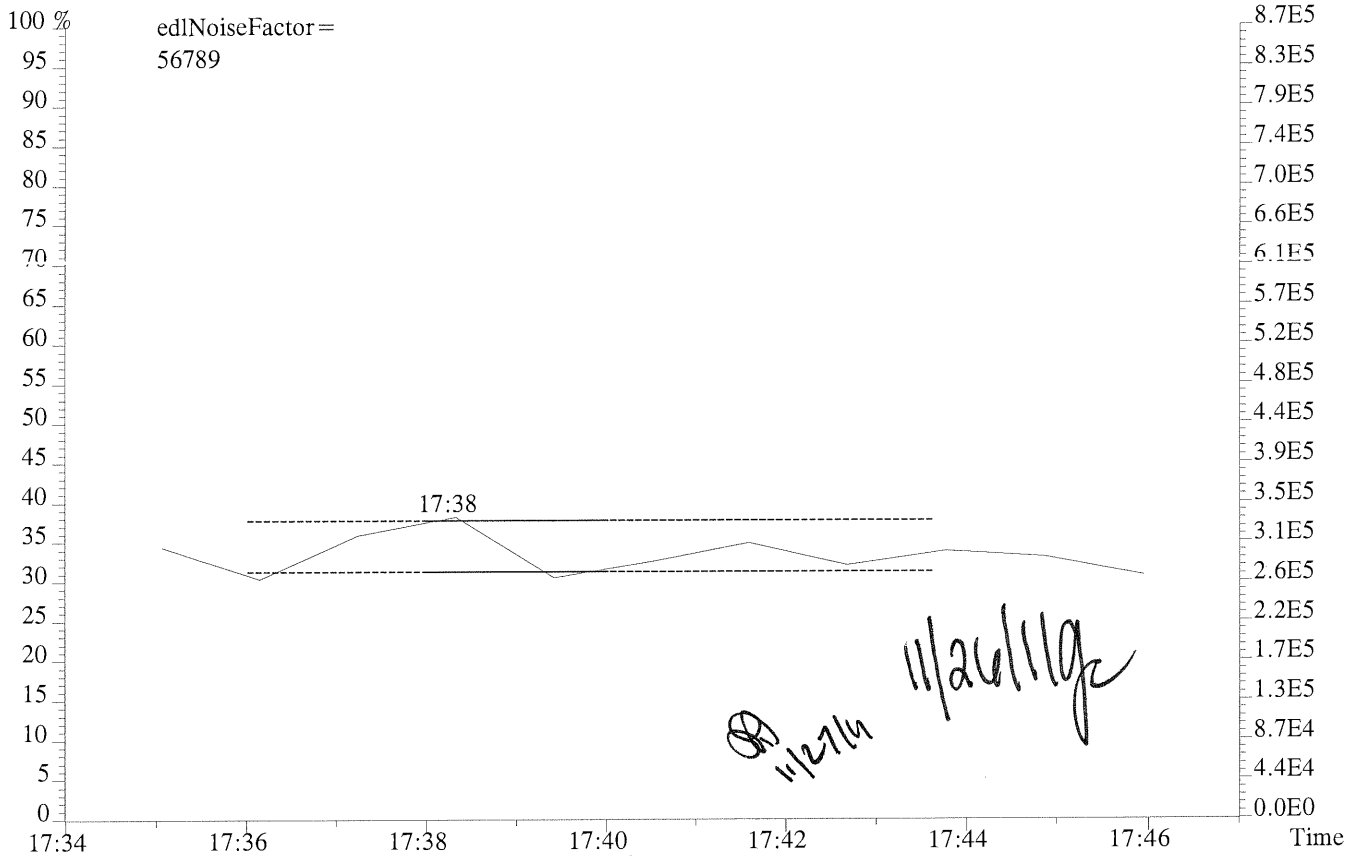
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142152 #1-336 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
222.0003 F:2

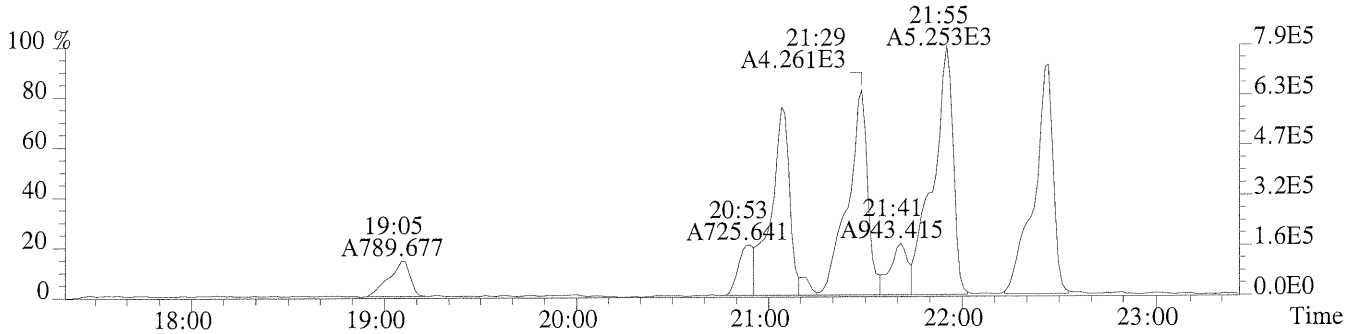


223.9974 F:2

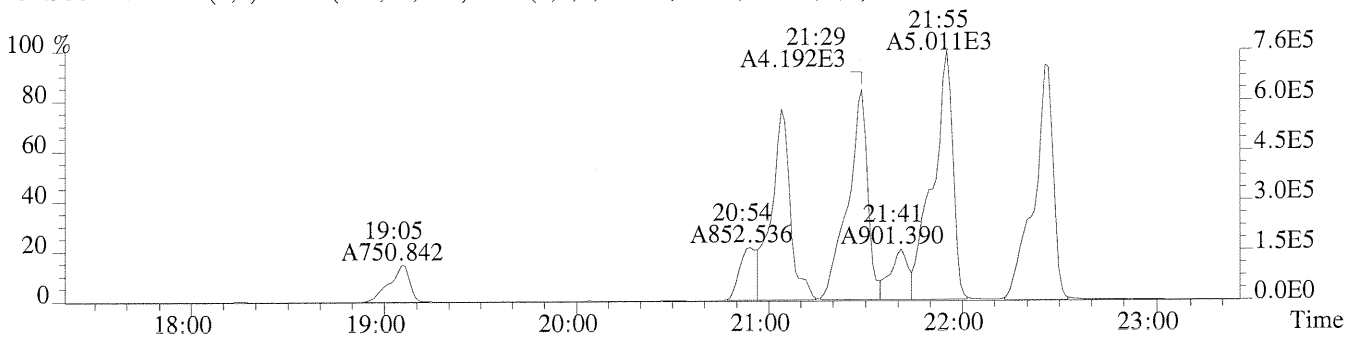


11/26/11 11/26/11

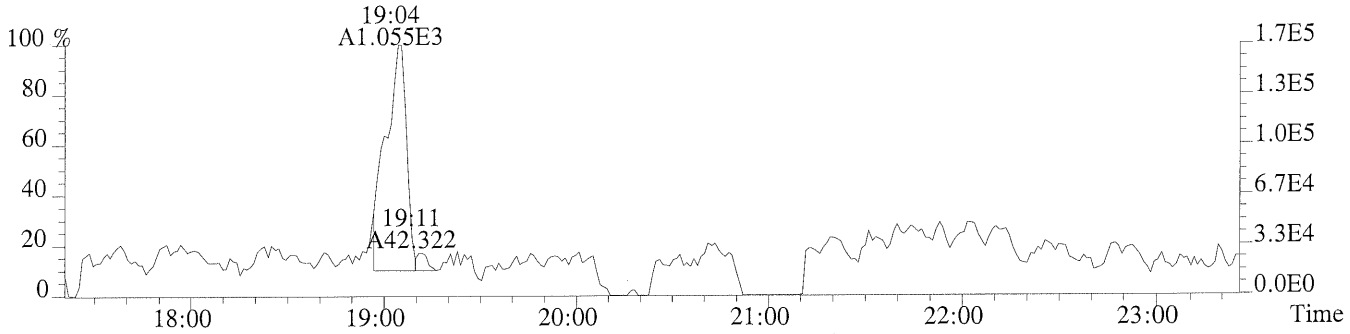
File:U142152 #1-336 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6396.0,1.00%,F,T)



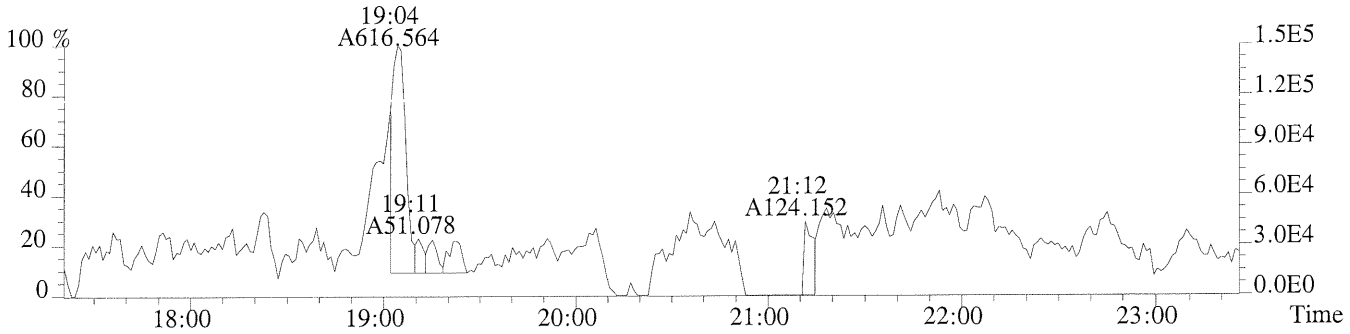
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,728.0,1.00%,F,T)



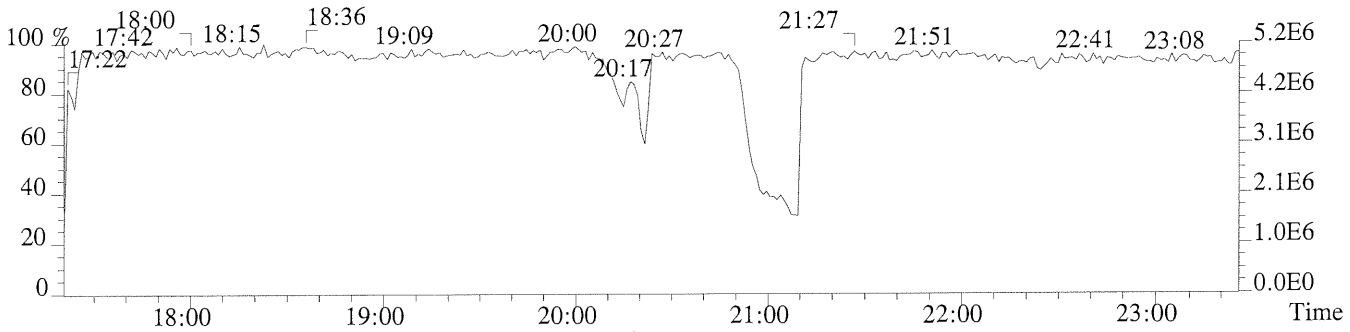
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,31168.0,1.00%,F,T)



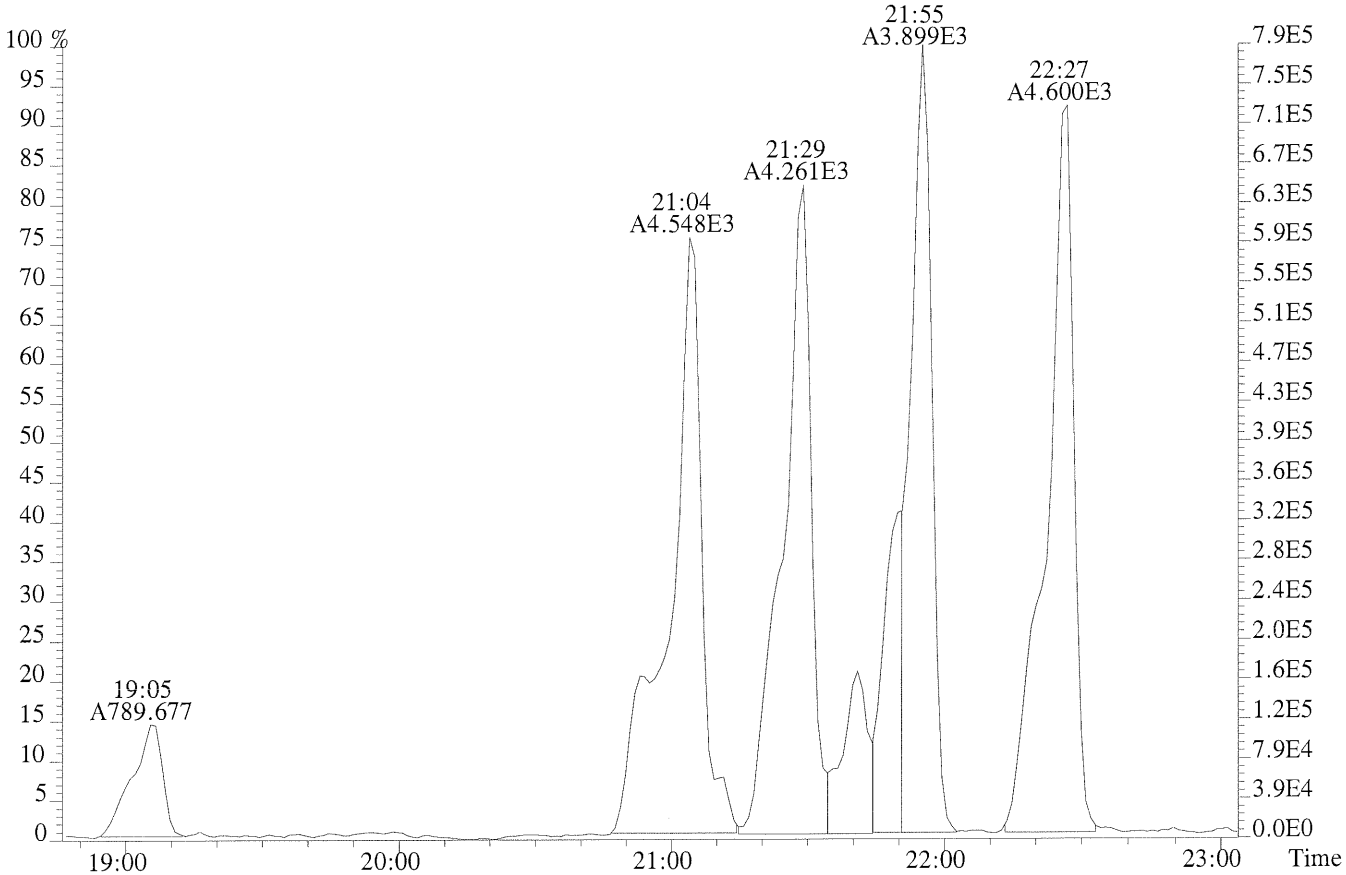
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,35220.0,1.00%,F,T)



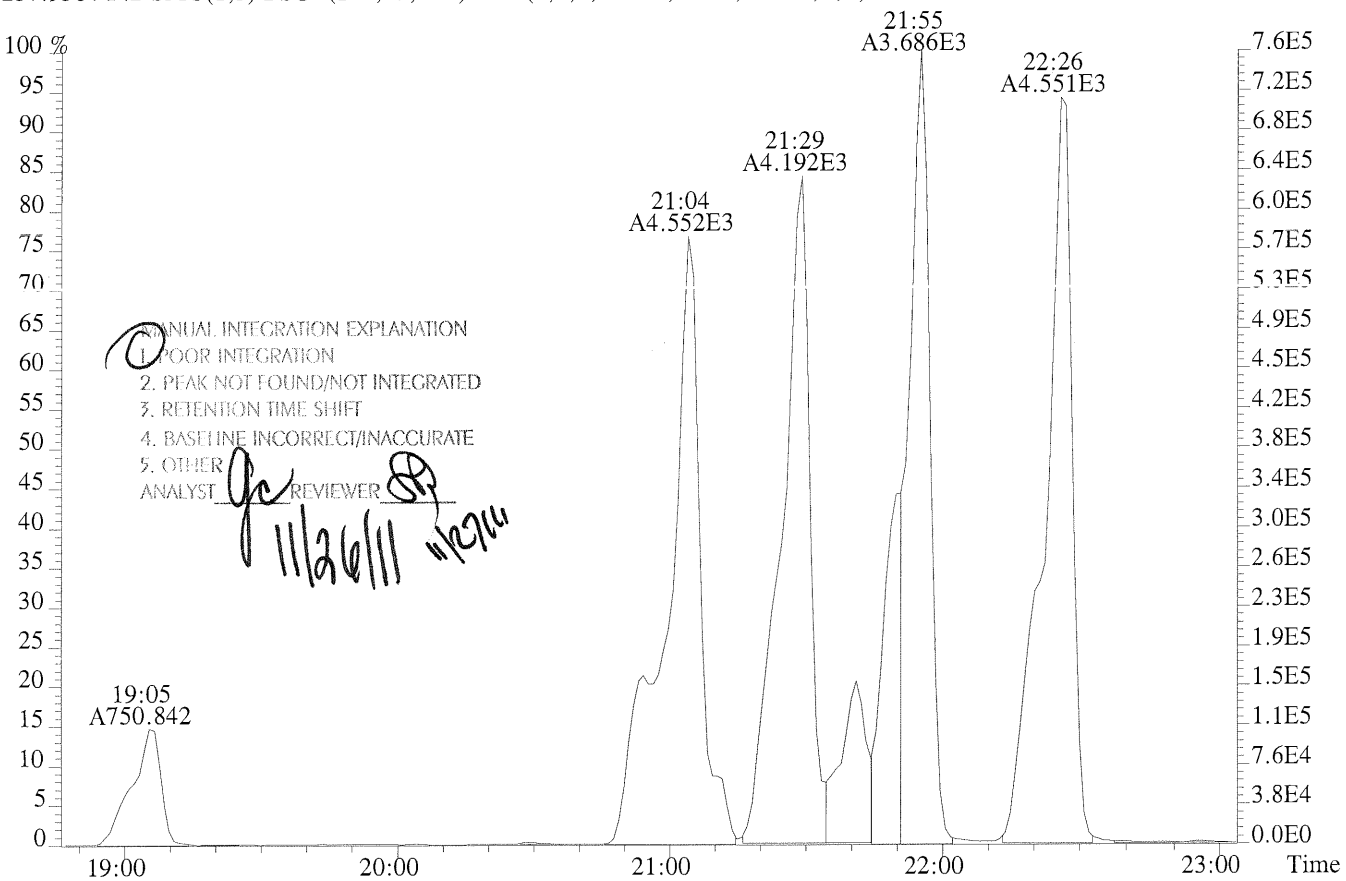
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142152 #1-336 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6396.0,1.00%,F,T)

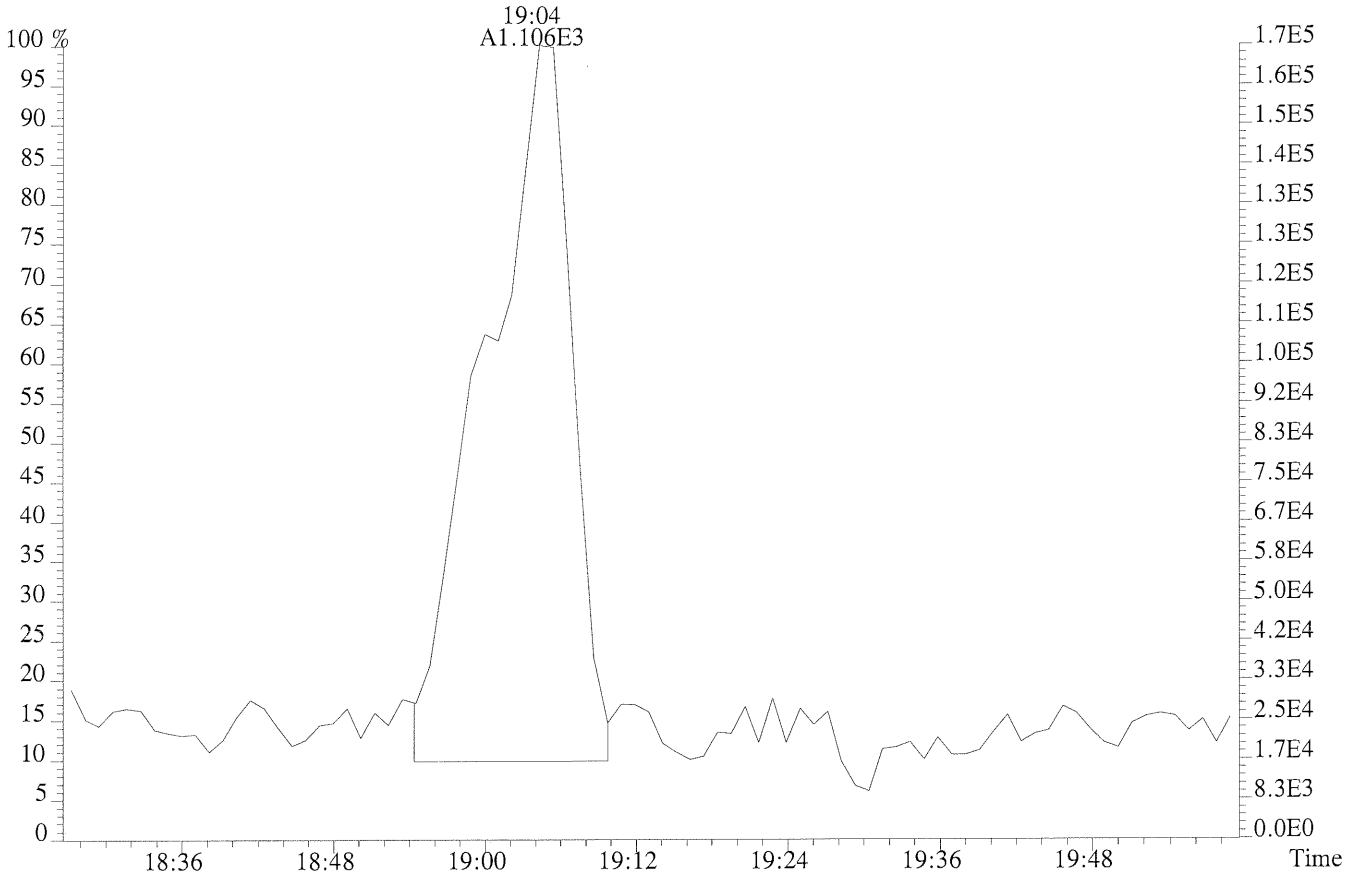


257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,728.0,1.00%,F,T)

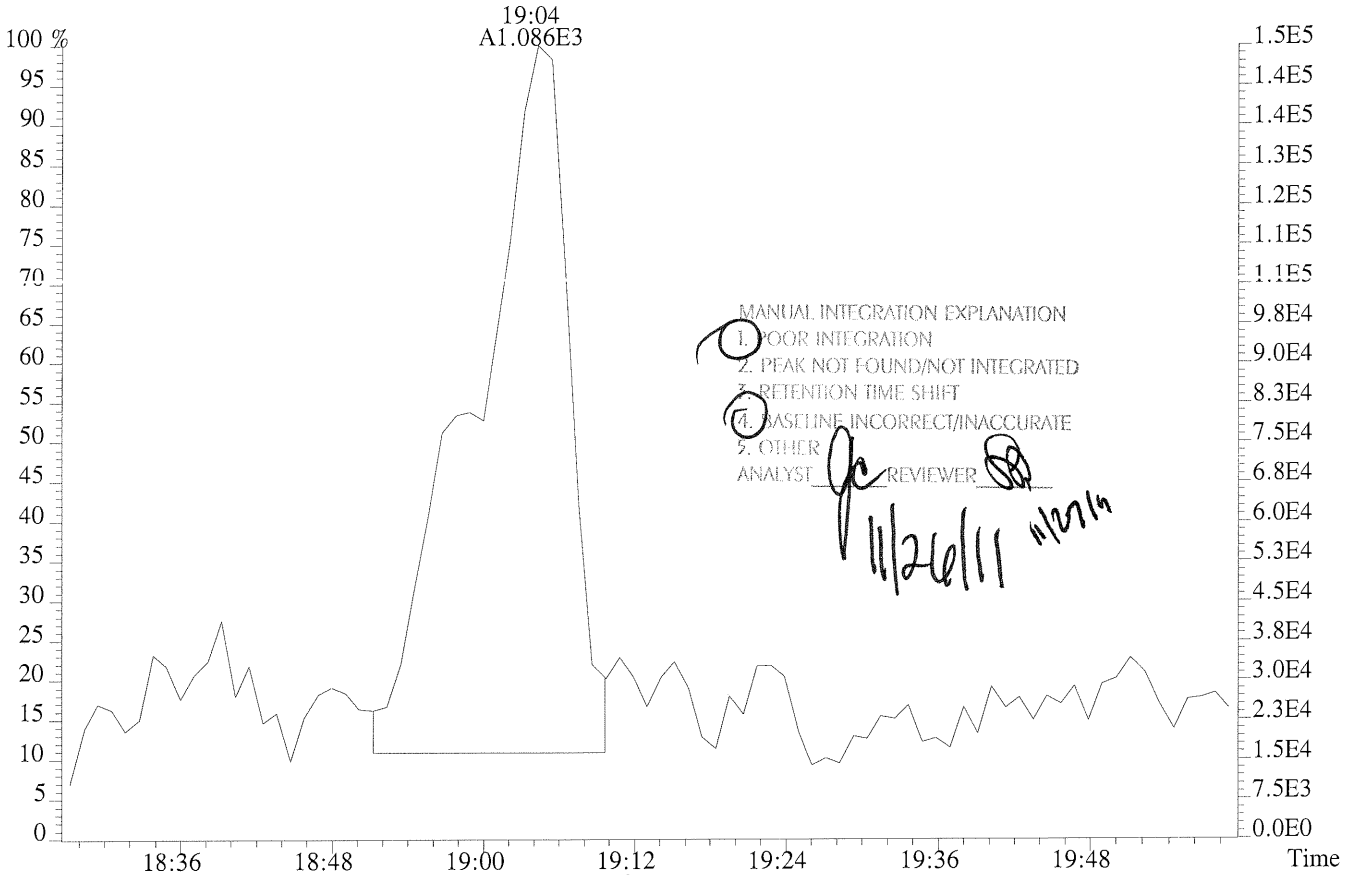


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST gc REVIEWER SP
11/26/11 11/27/11

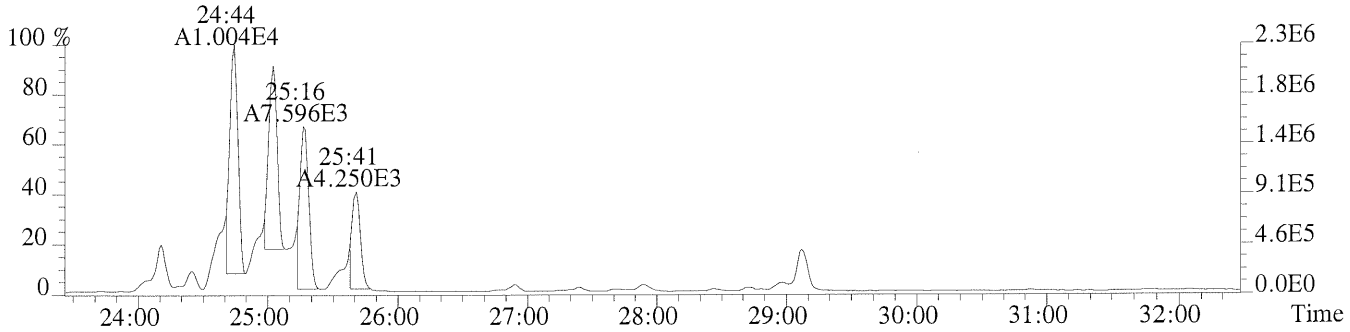
File:U142152 #1-336 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,31168.0,1.00%,F,T)



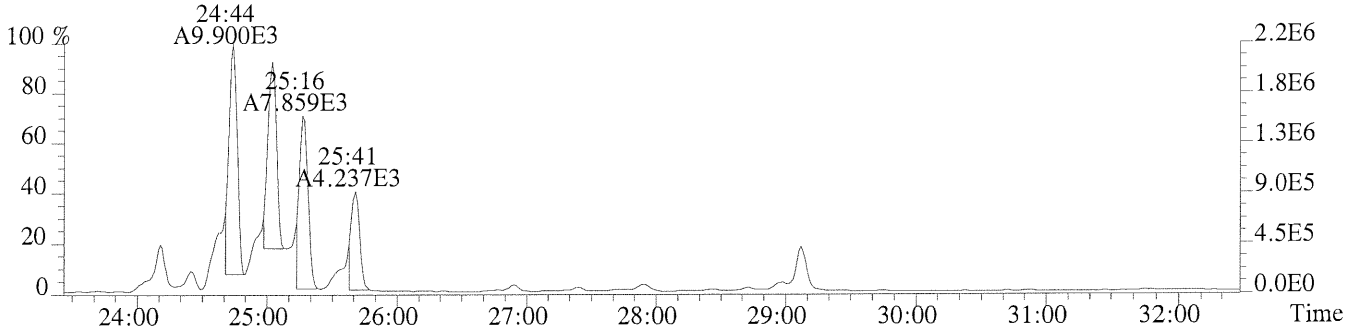
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,35220.0,1.00%,F,T)



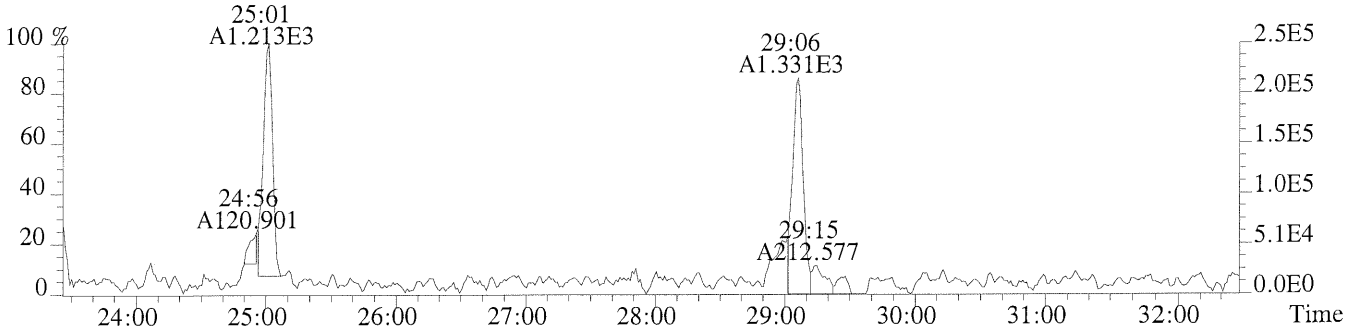
File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,220676.0,1.00%,F,T)



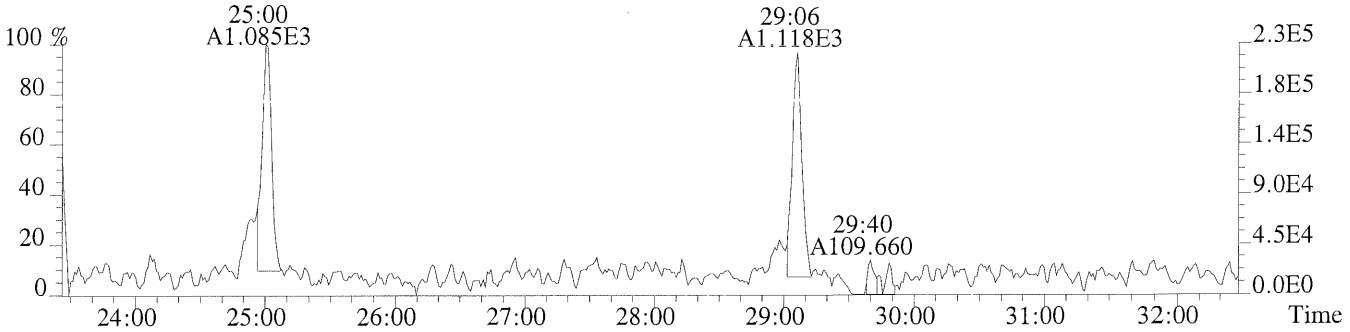
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,216492.0,1.00%,F,T)



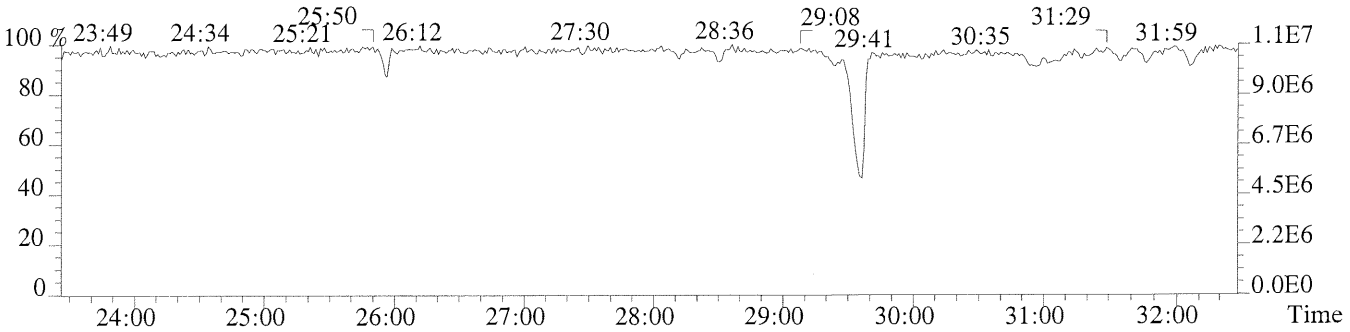
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16032.0,1.00%,F,T)



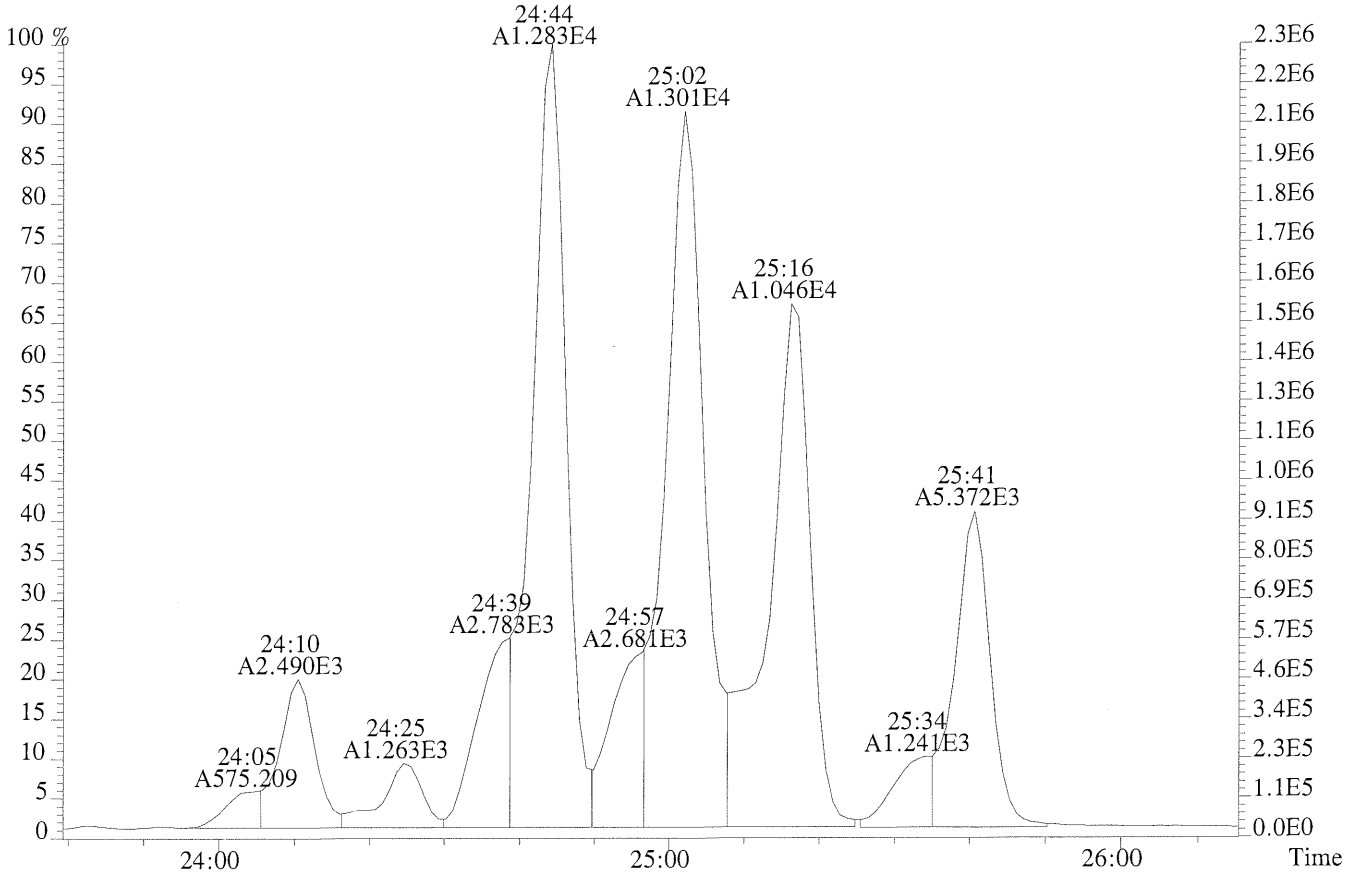
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23328.0,1.00%,F,T)



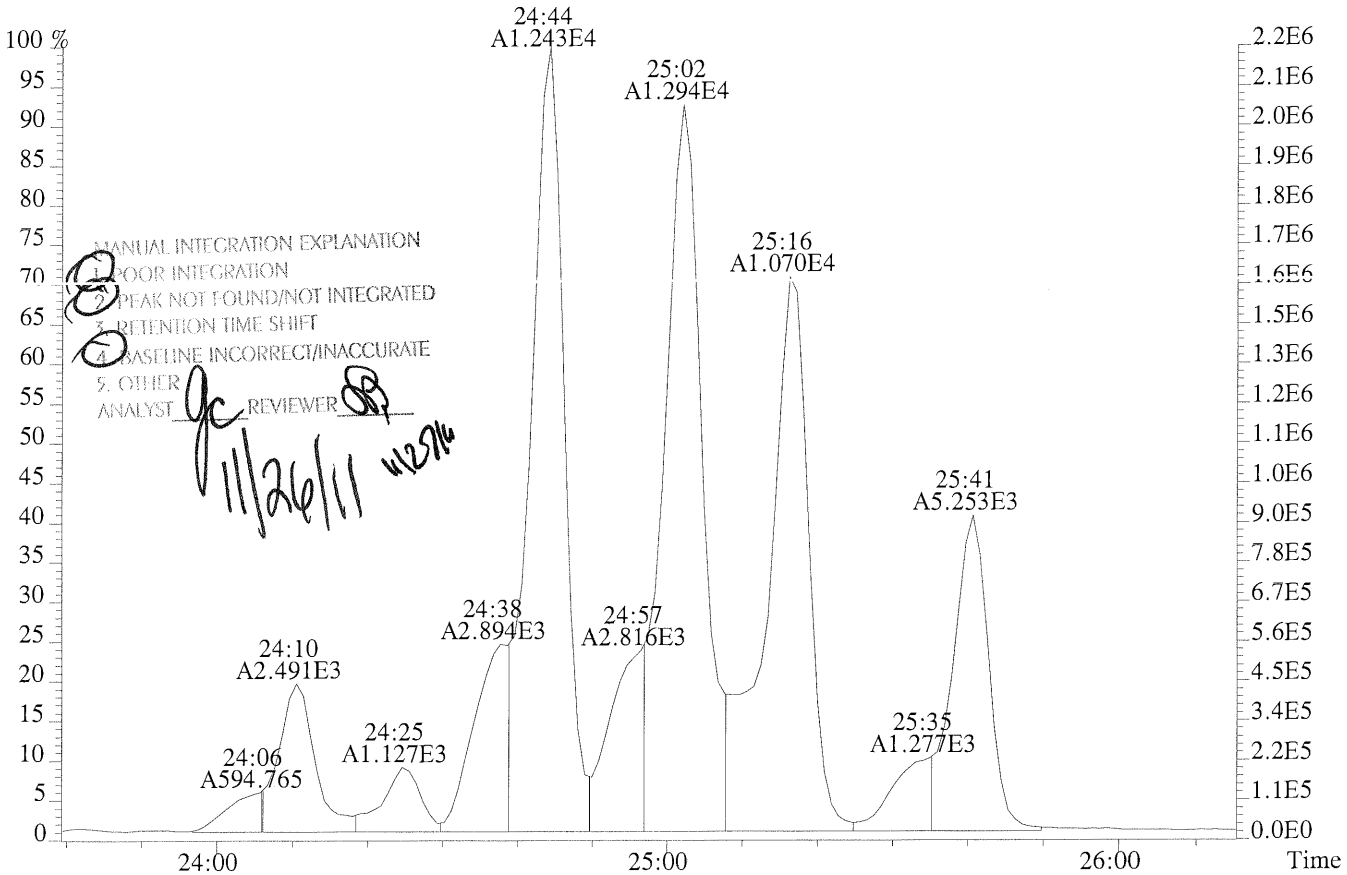
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



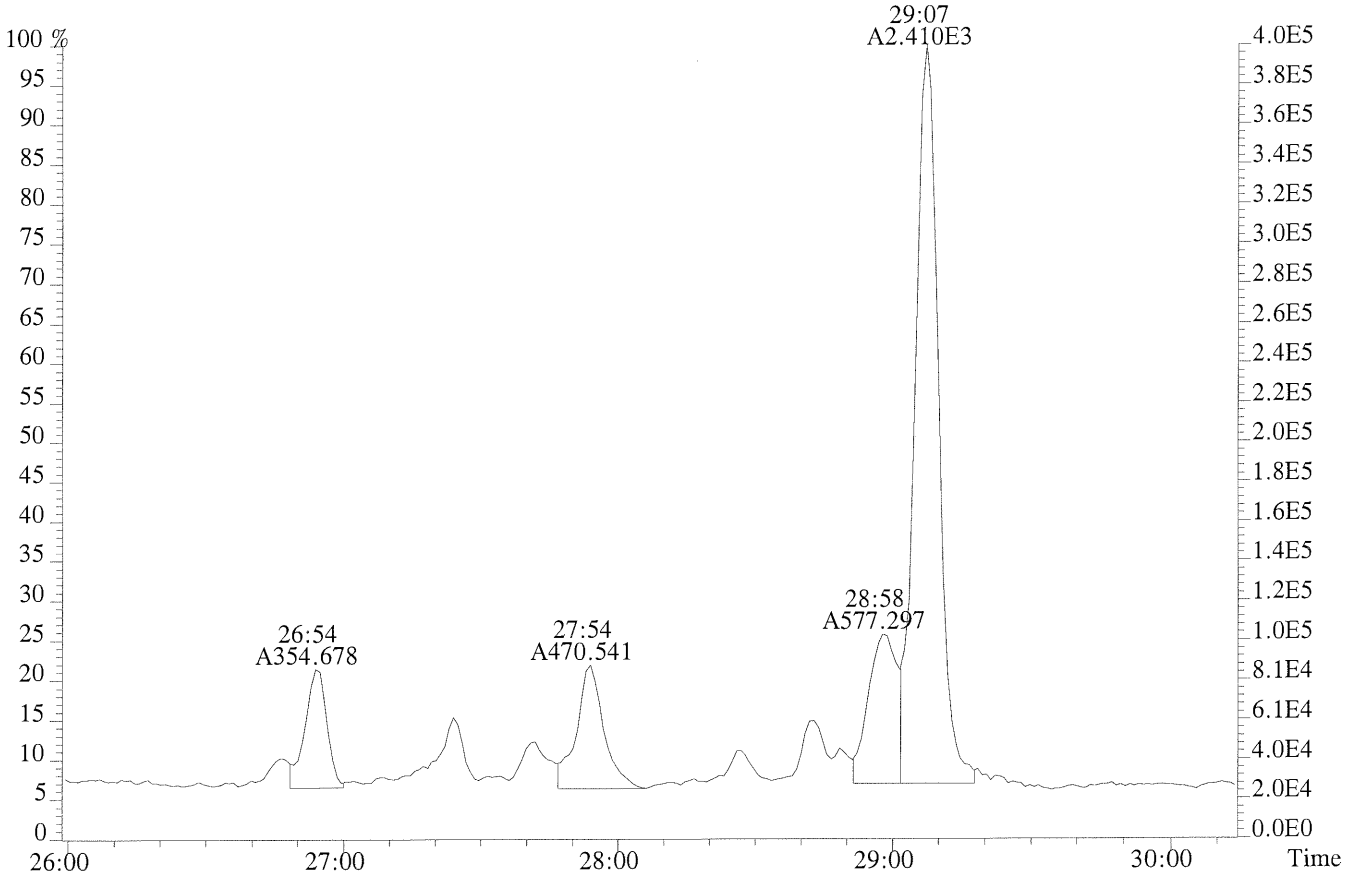
File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,220676.0,1.00%,F,T)



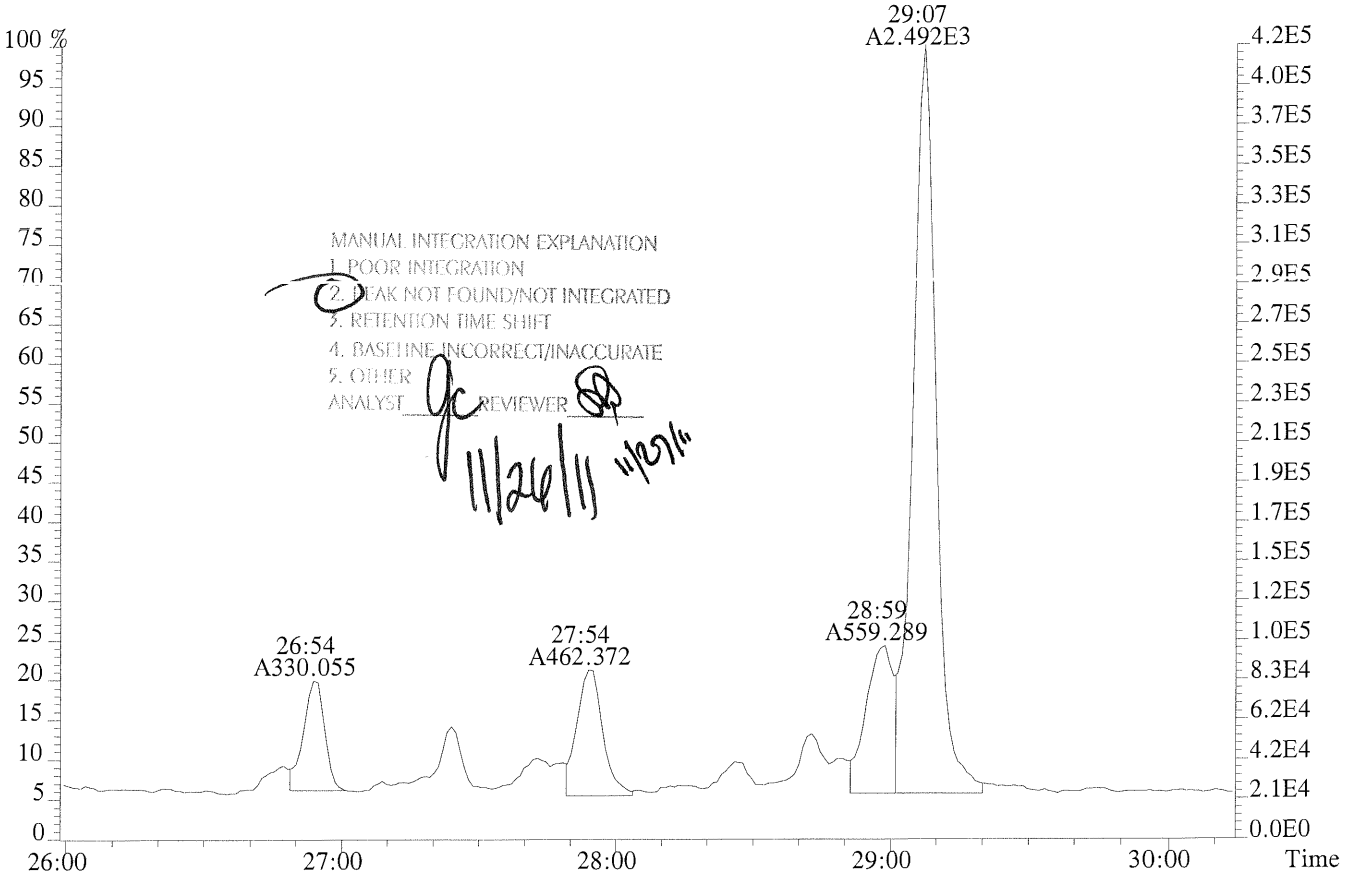
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,216492.0,1.00%,F,T)



File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,220676.0,1.00%,F,T)

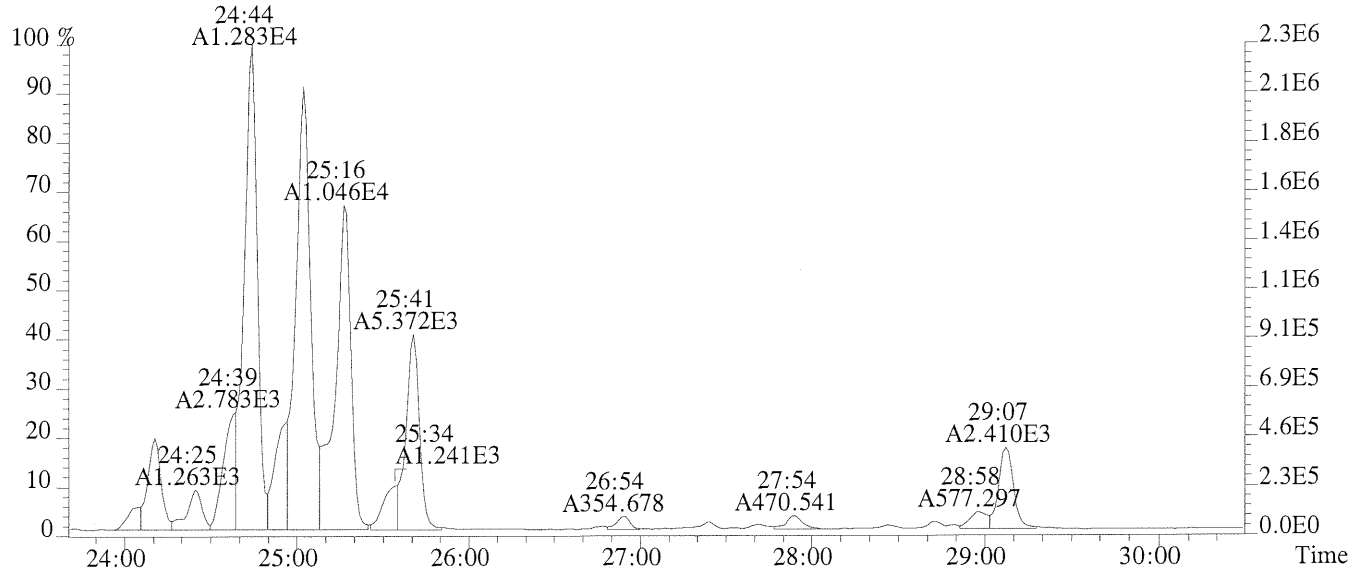


257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,216492.0,1.00%,F,T)

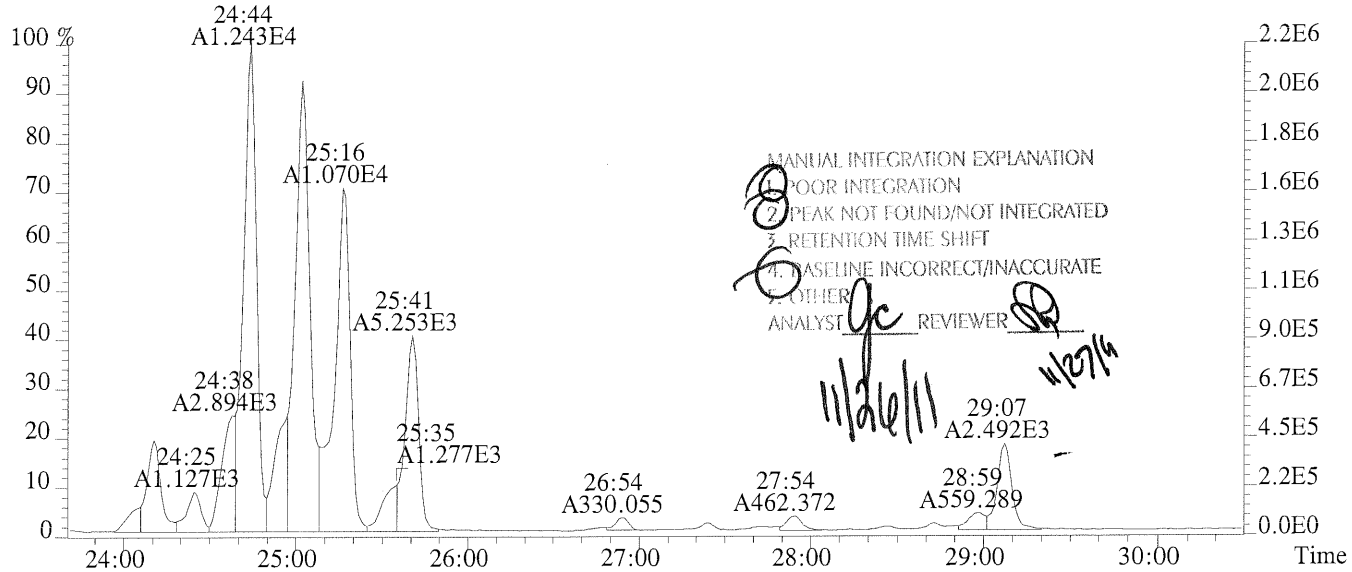


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST JC REVIEWER SB
11/26/11 11/27/11

File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,220676.0,1.00%,F,T)

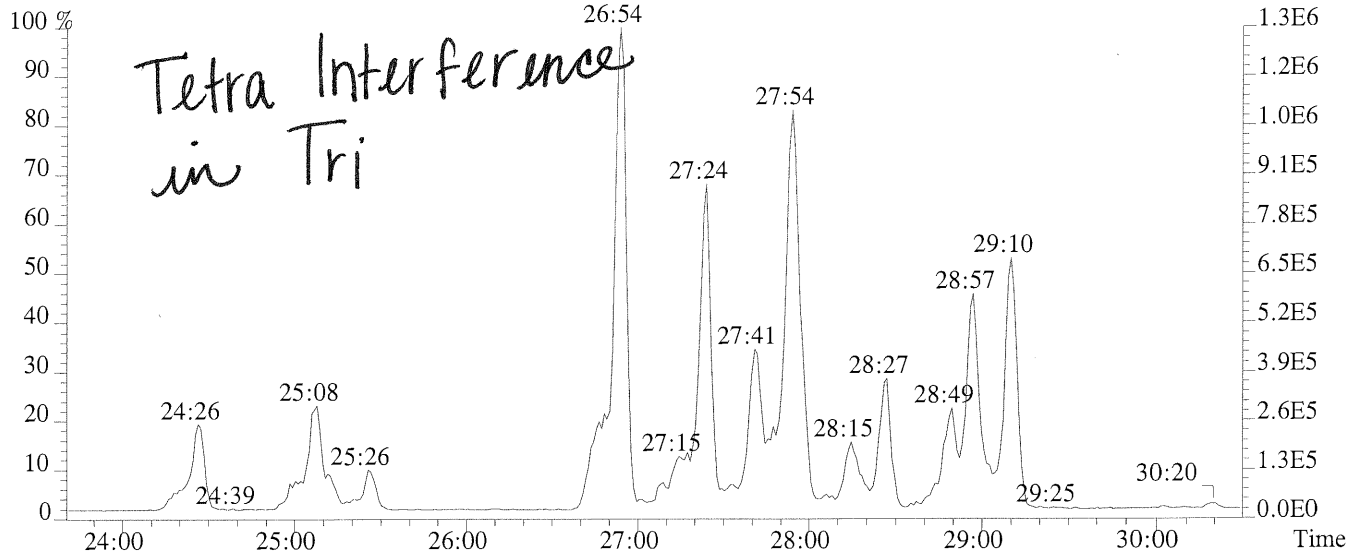


257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,216492.0,1.00%,F,T)

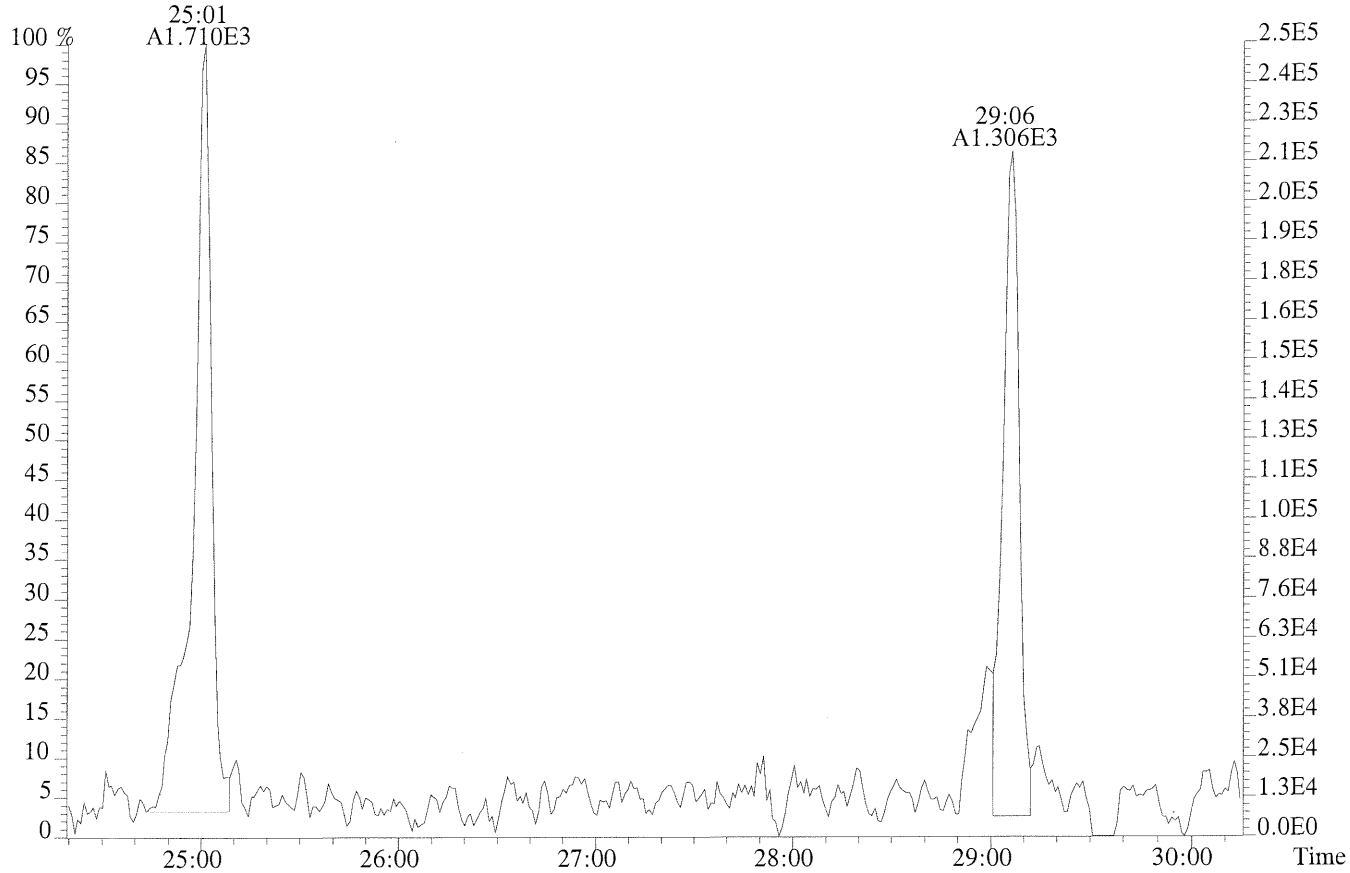


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST gc REVIEWER SR
11/26/11 11/27/11

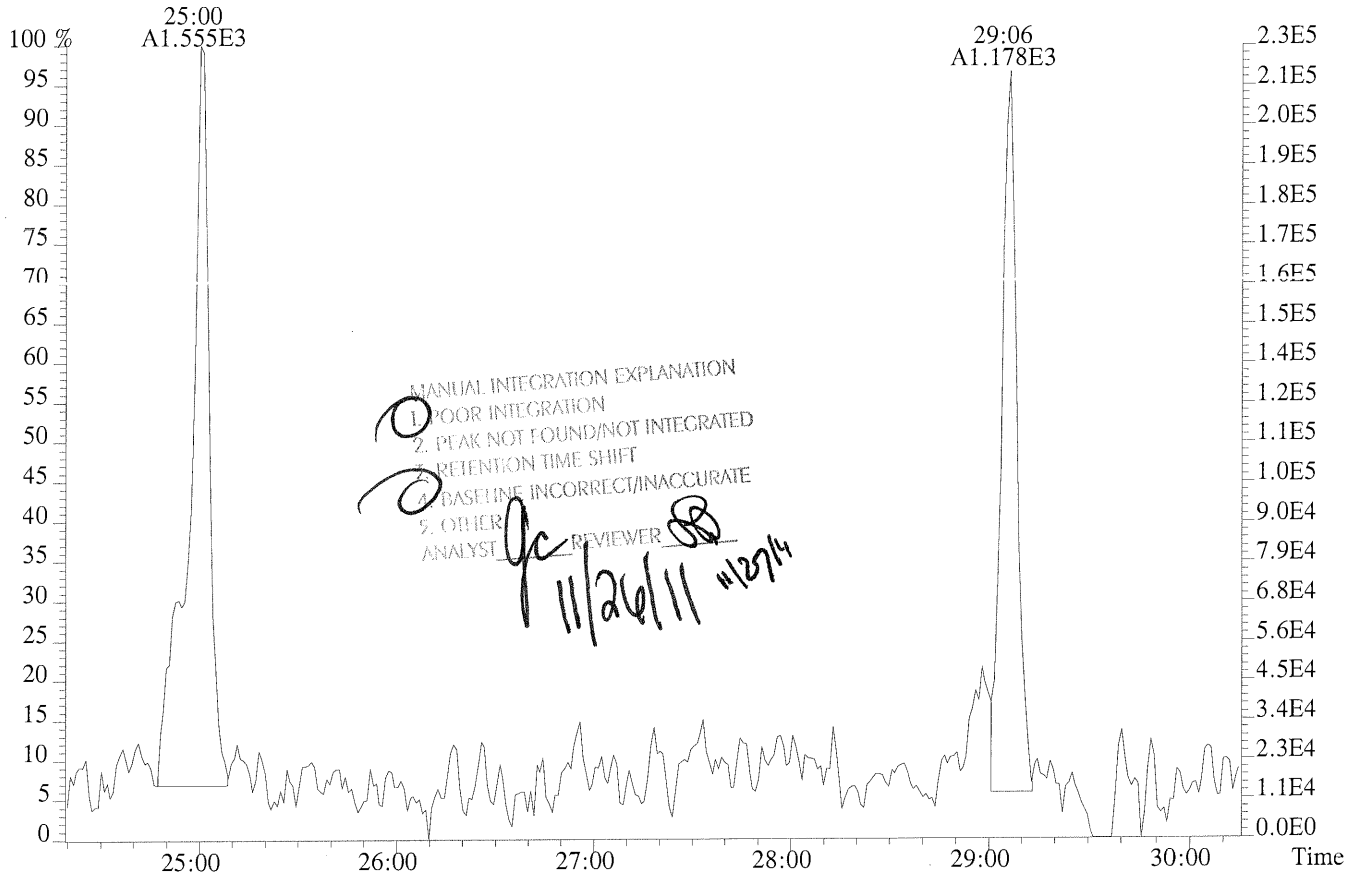
289.9224 F:3



File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16032.0,1.00%,F,T)

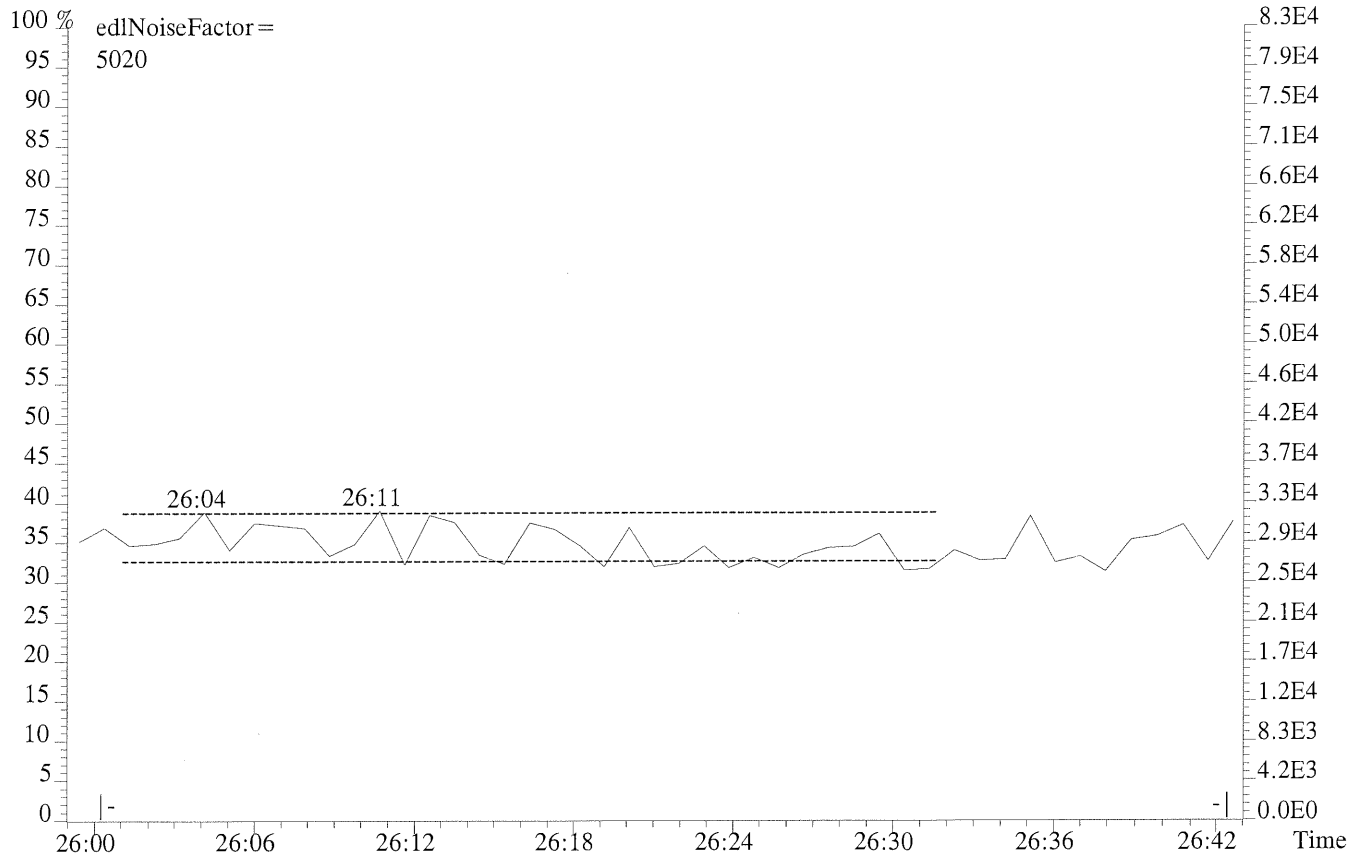


269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23328.0,1.00%,F,T)

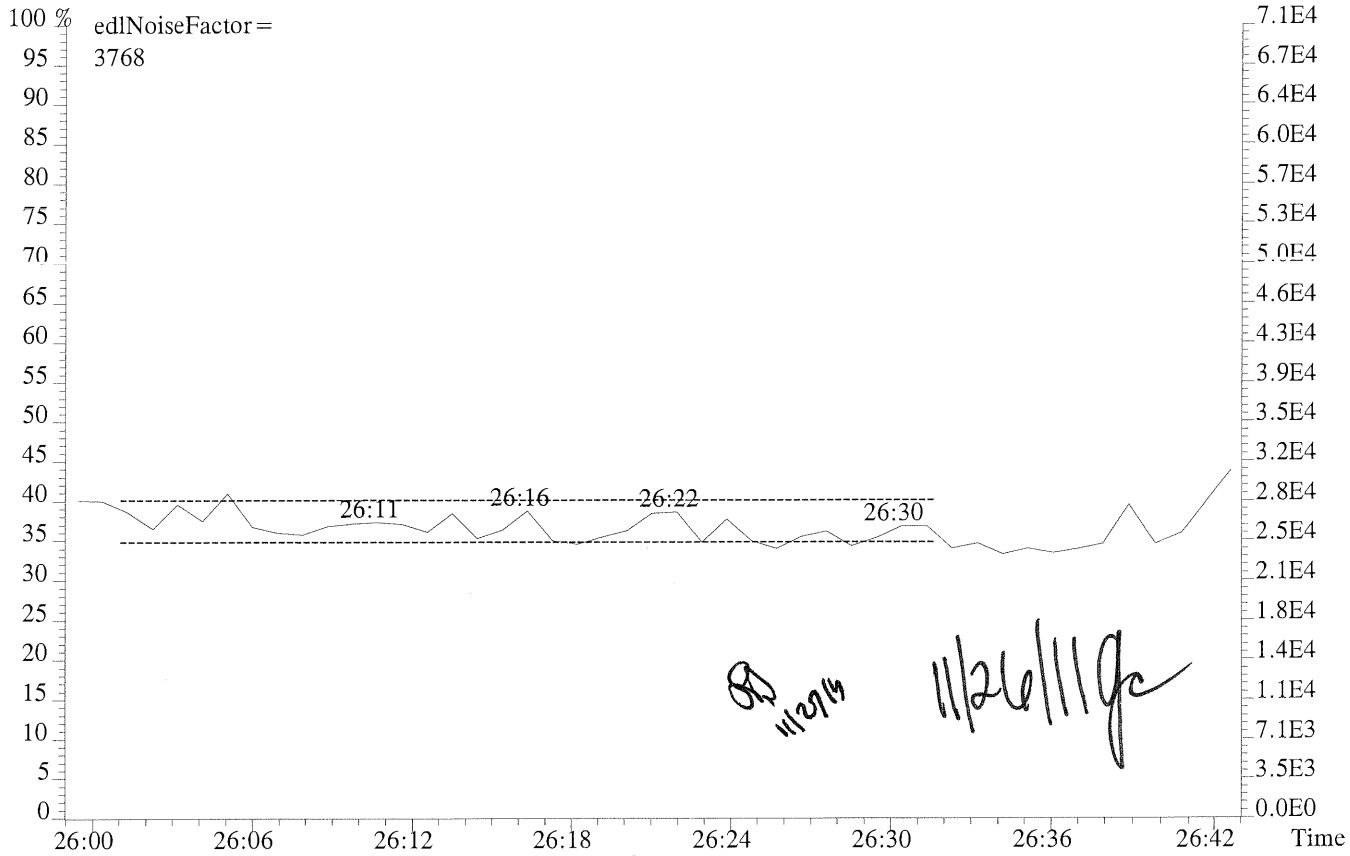


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST JC REVIEWER SB
11/26/11 11/27/11

File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
255.9613 F:3



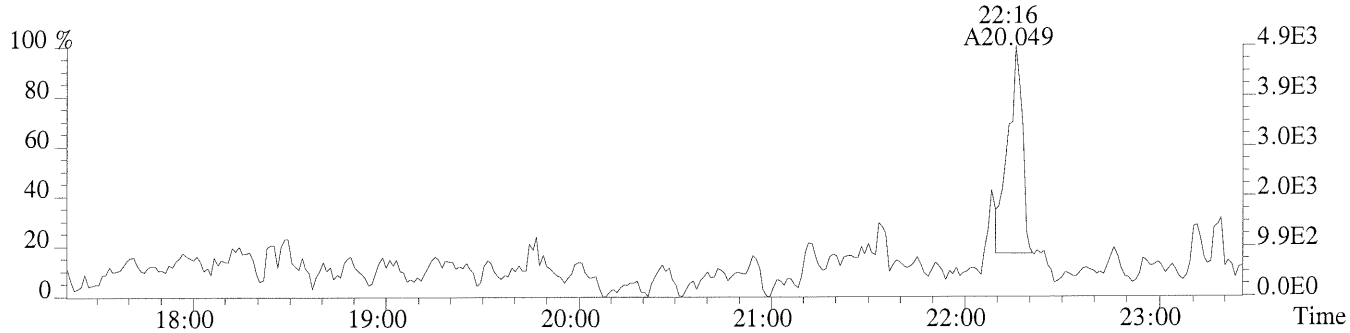
257.9584 F:3



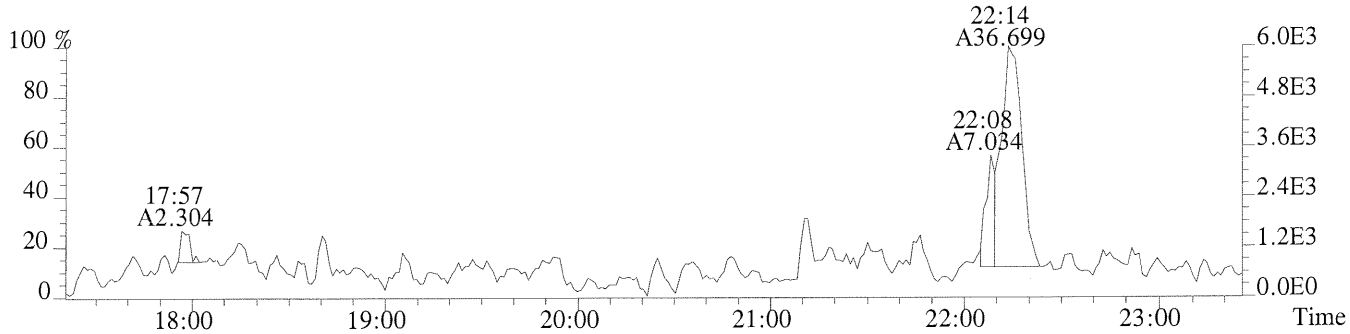
11/26/14

11/26/14 gc

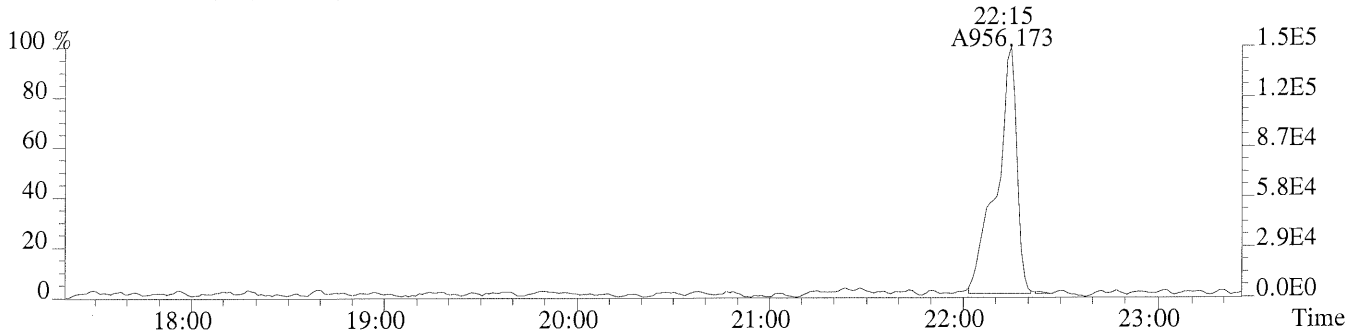
File:U142152 #1-336 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



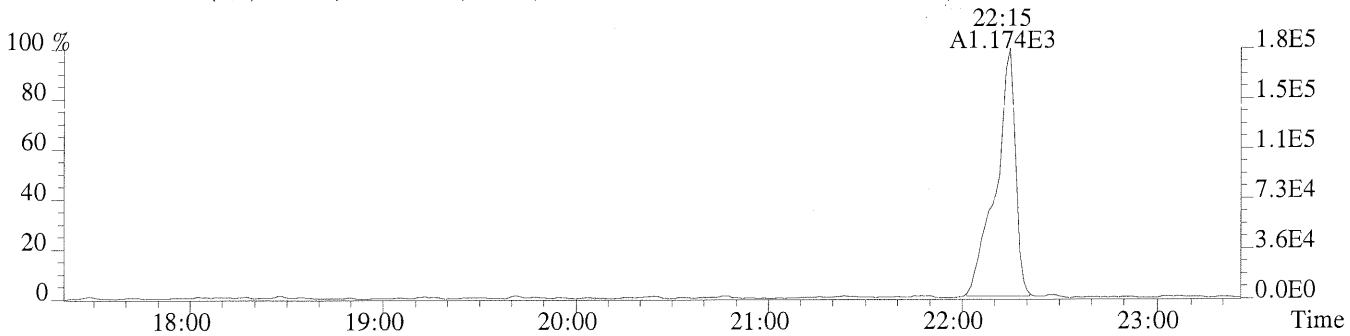
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



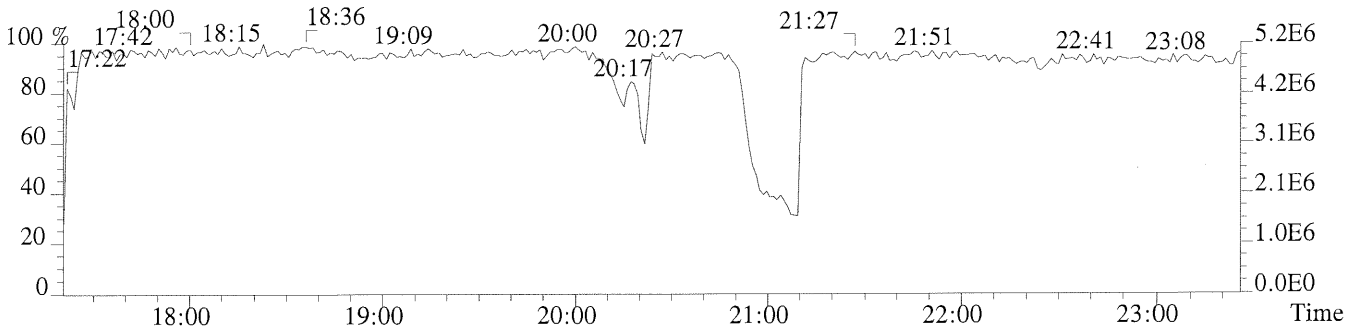
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3164.0,1.00%,F,T)



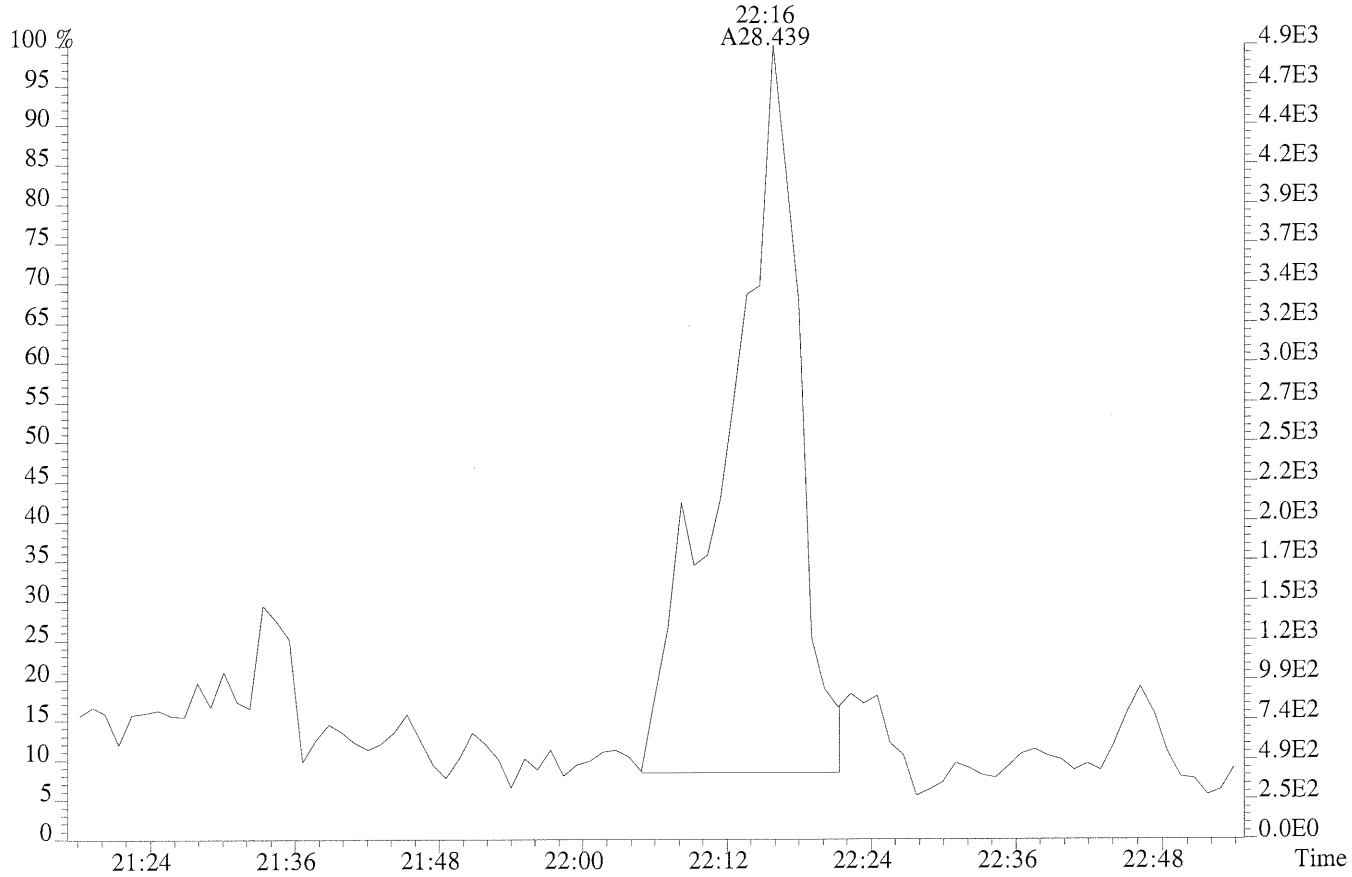
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1596.0,1.00%,F,T)



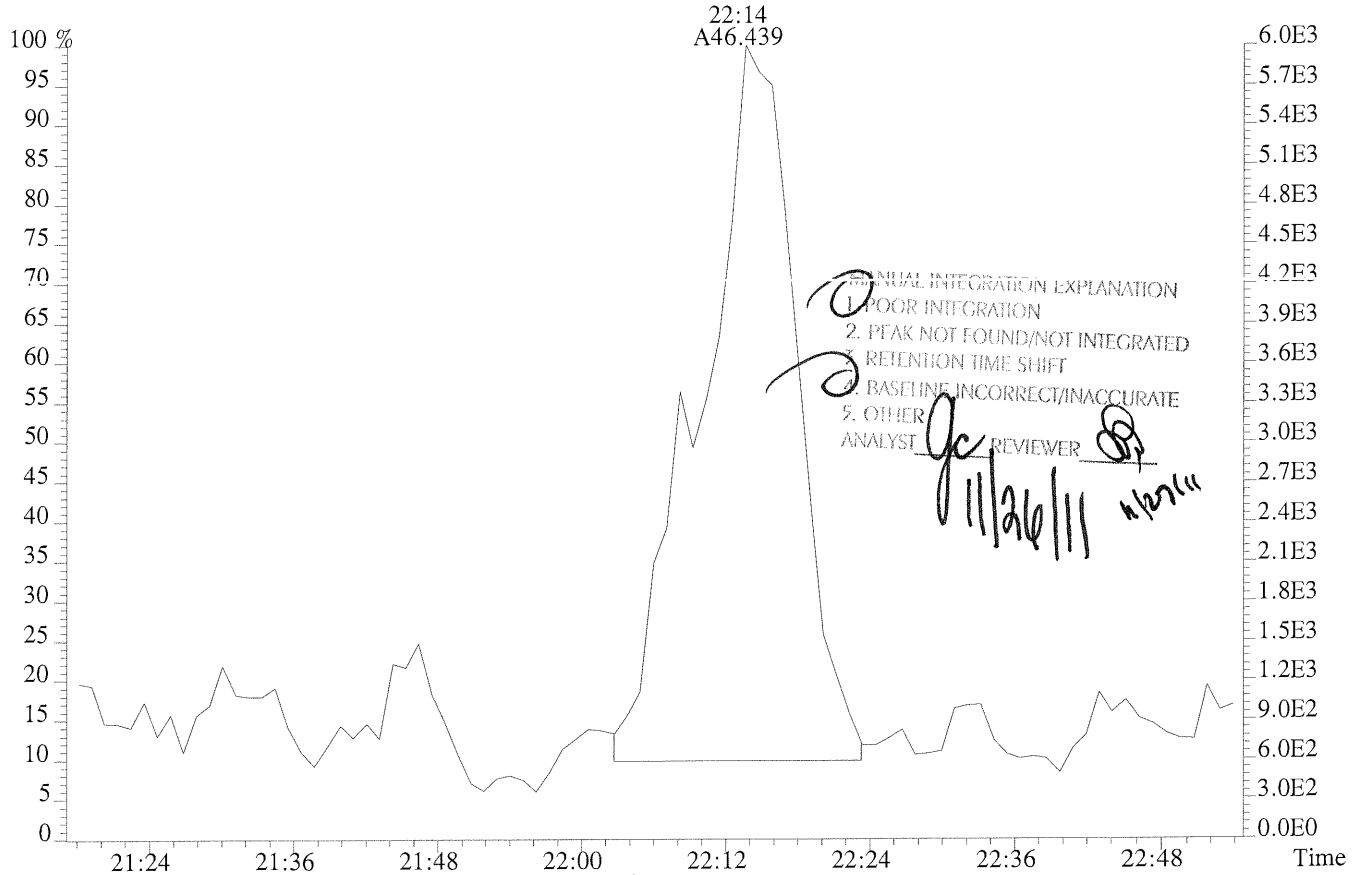
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



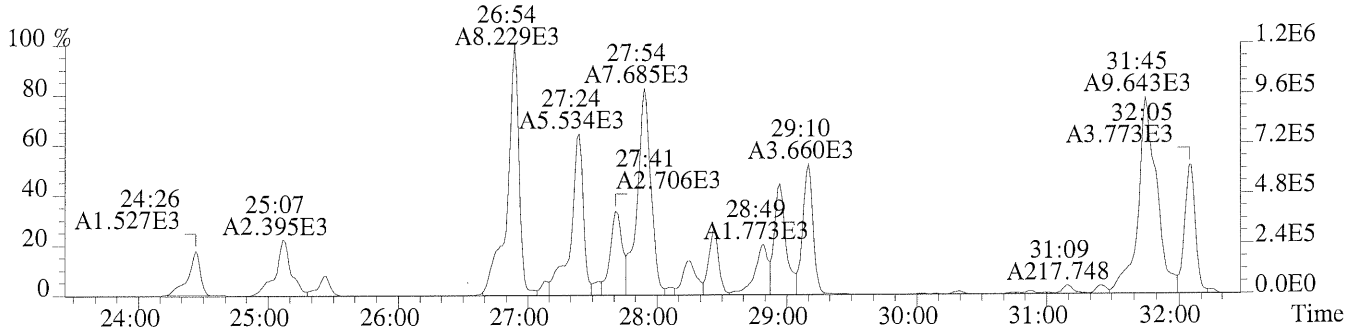
File:U142152 #1-336 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



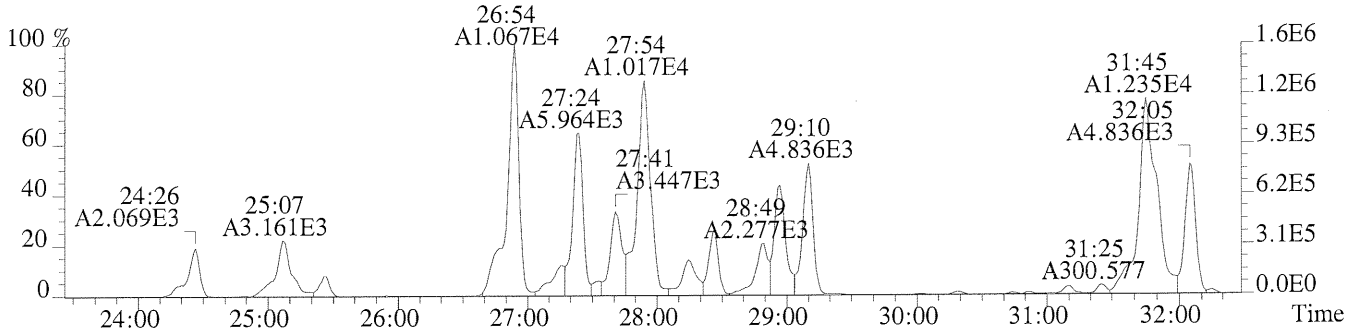
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



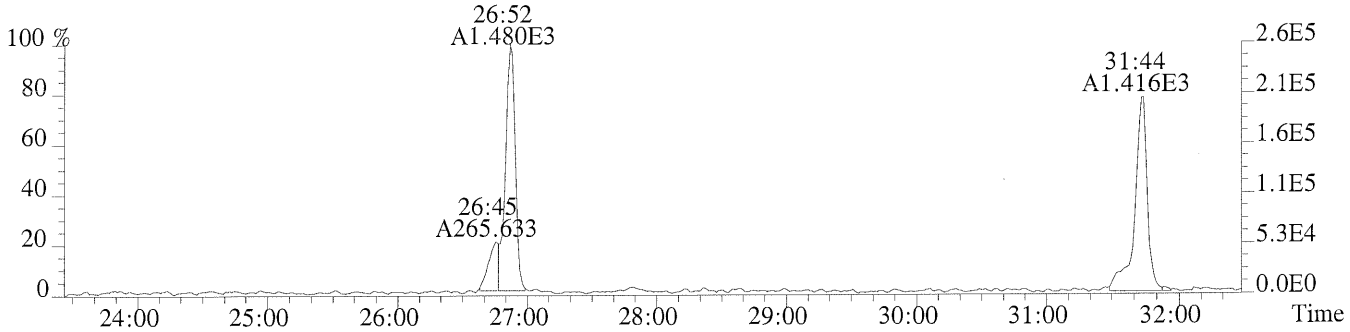
File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1292.0,1.00%,F,T)



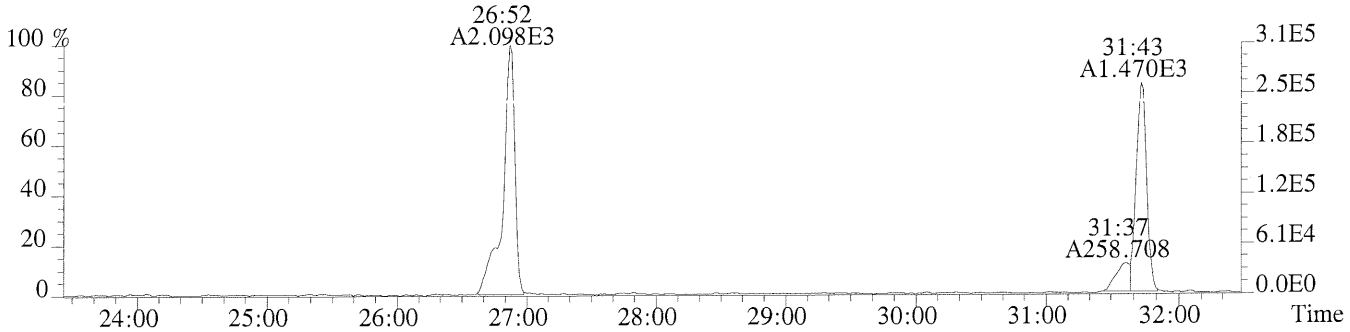
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1332.0,1.00%,F,T)



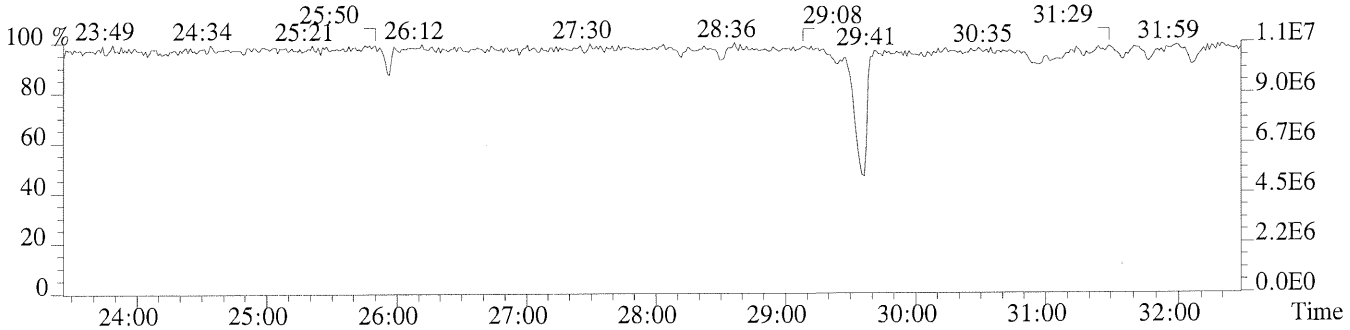
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4288.0,1.00%,F,T)



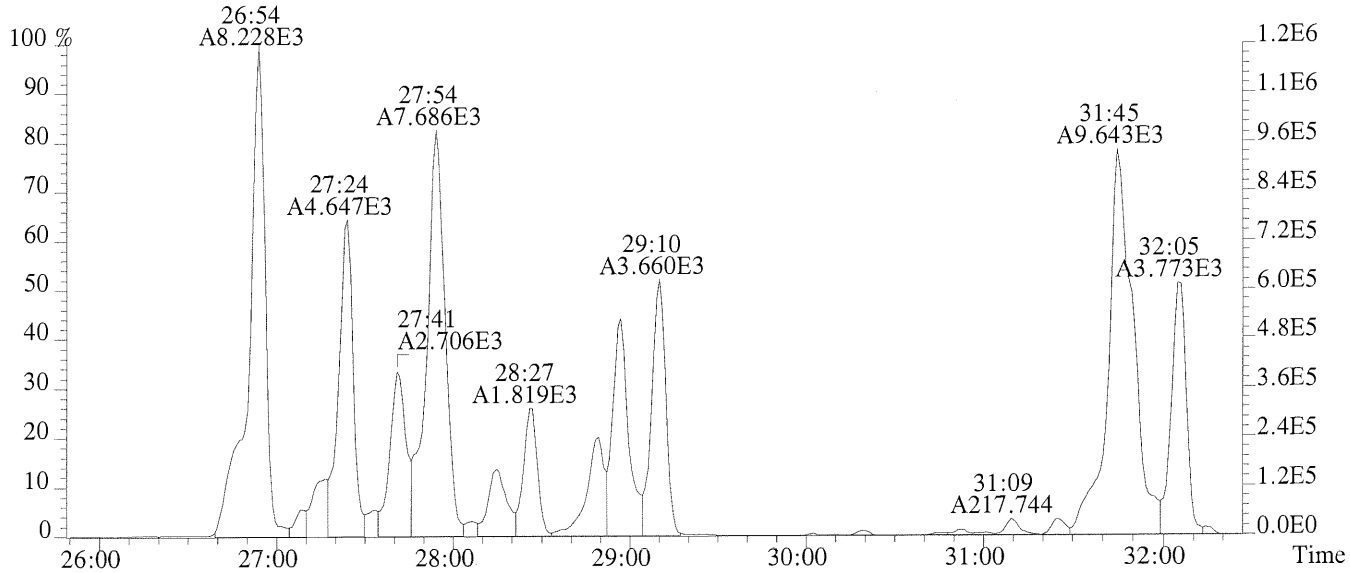
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1524.0,1.00%,F,T)



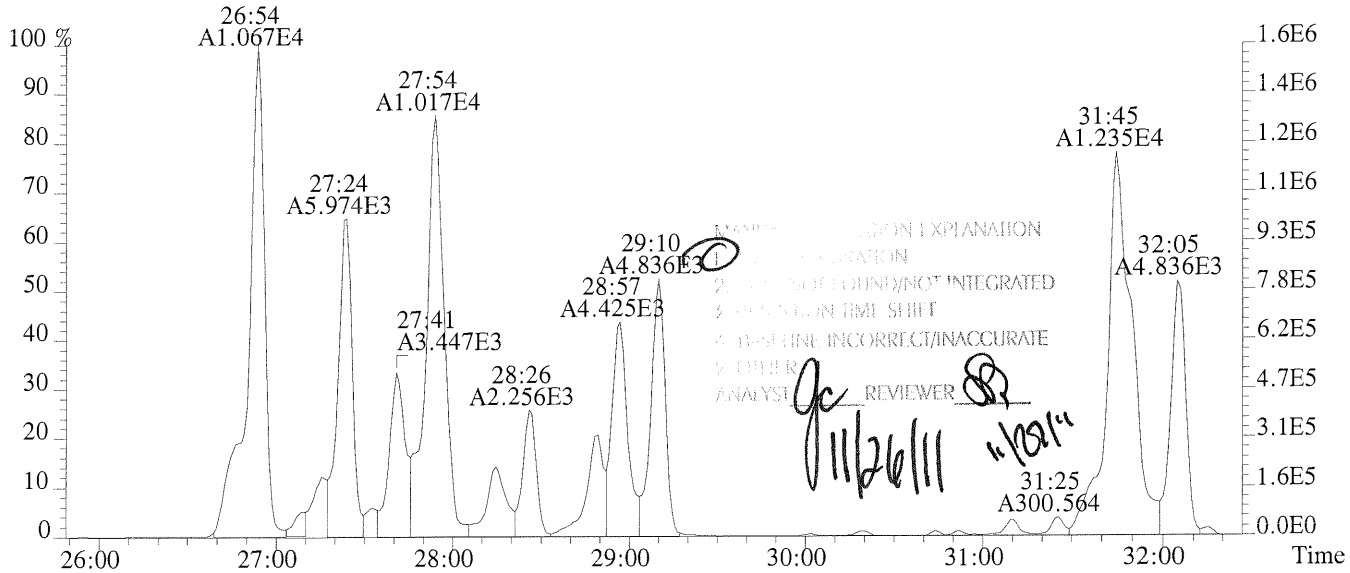
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0)

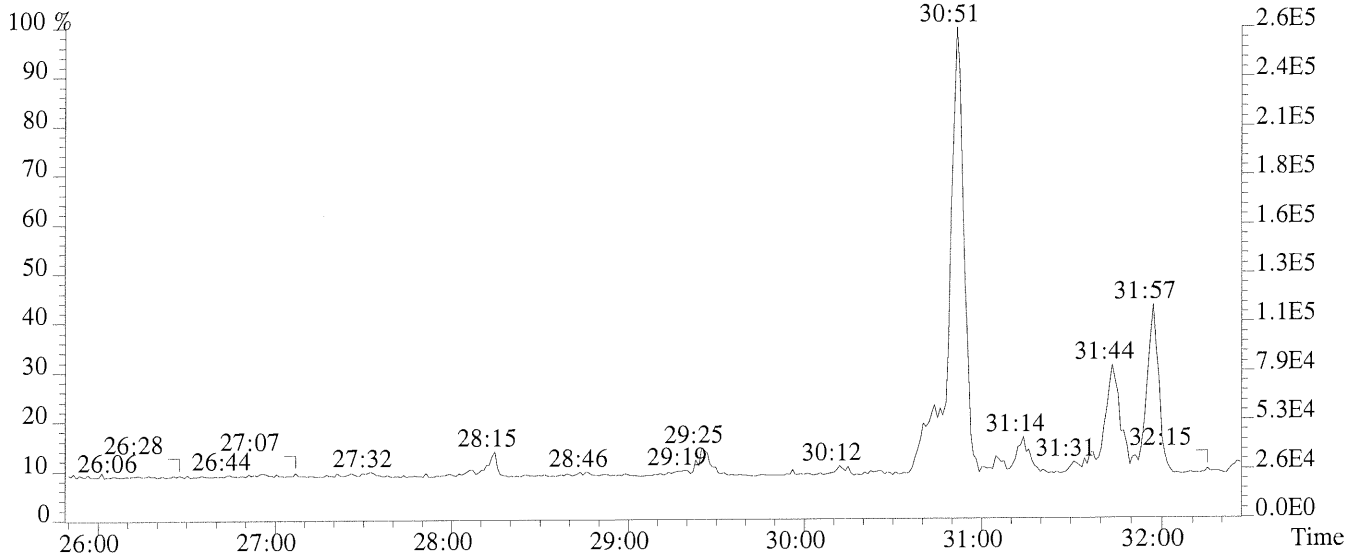


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0)

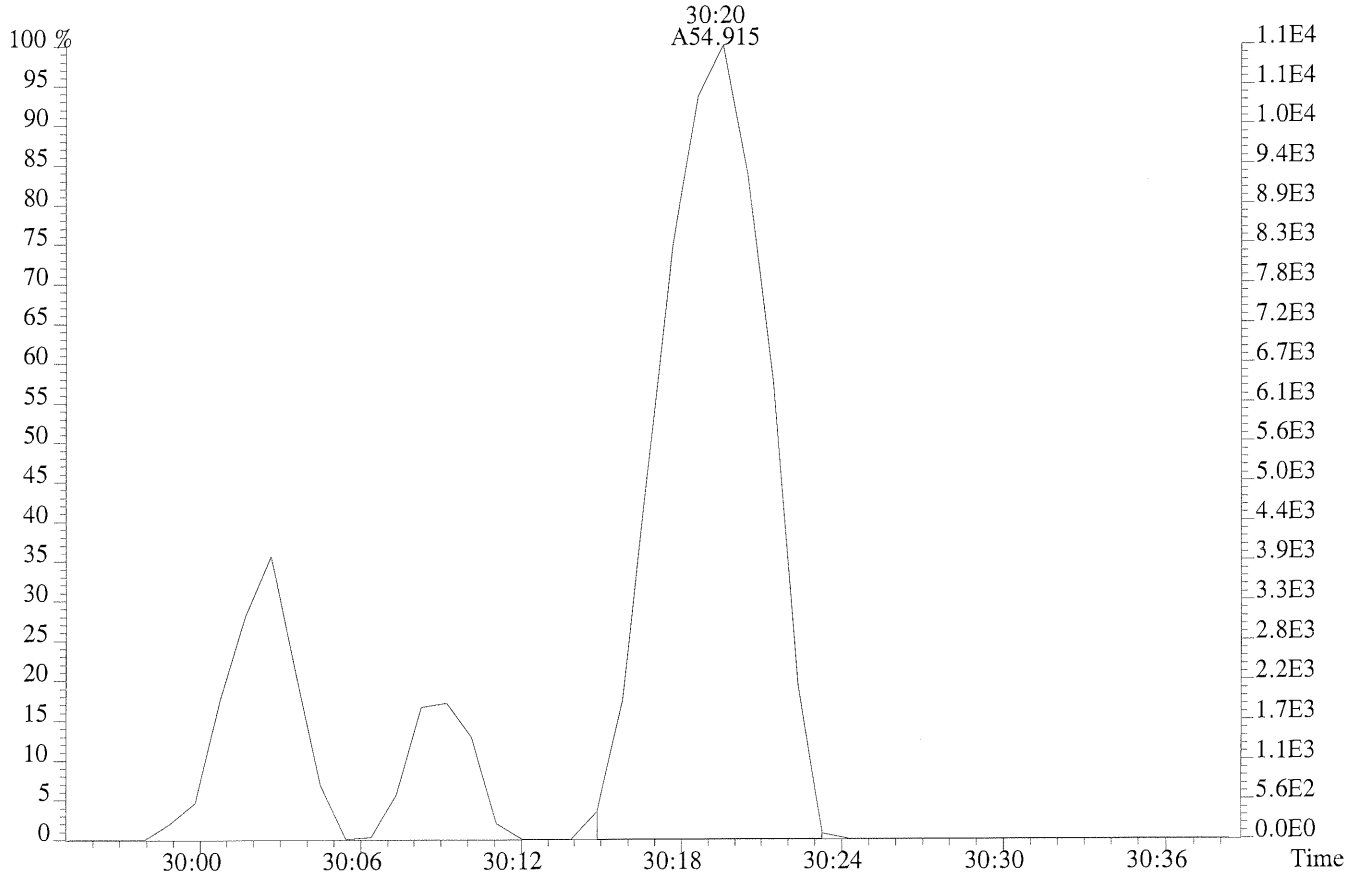


ANALYST JC REVIEWER SB
11/26/11 11/28/11

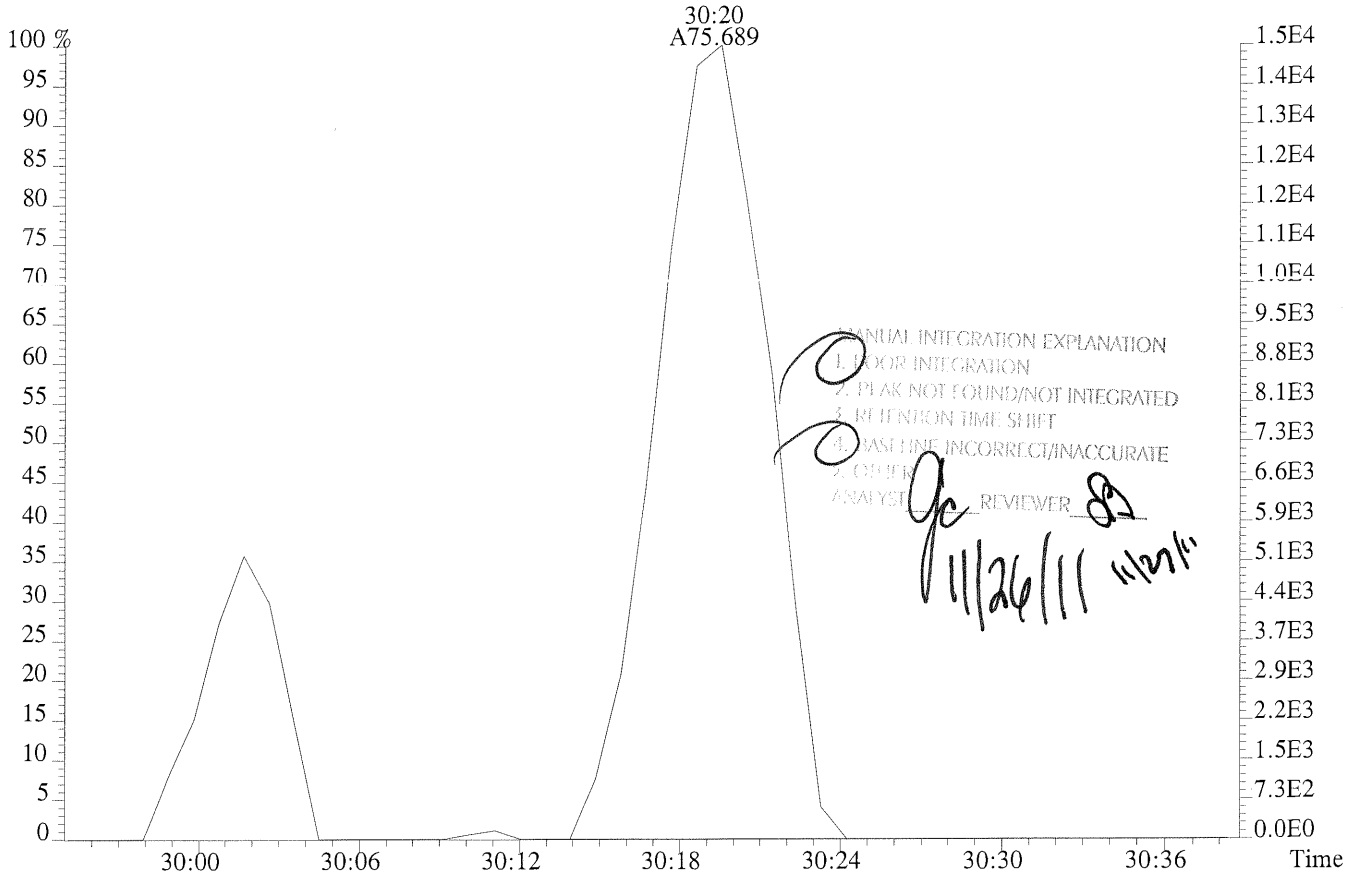
325.8804 F:3



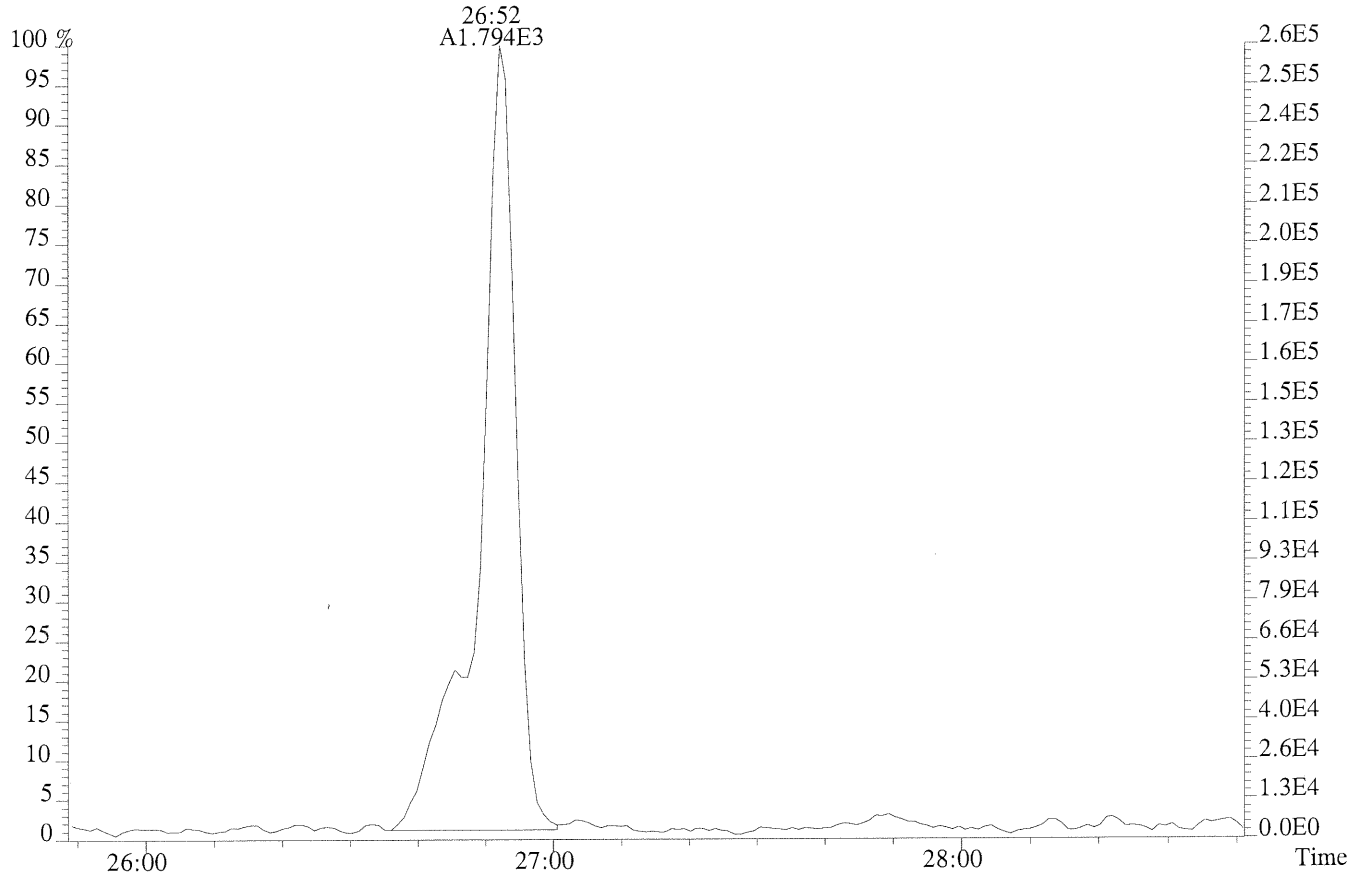
File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0)



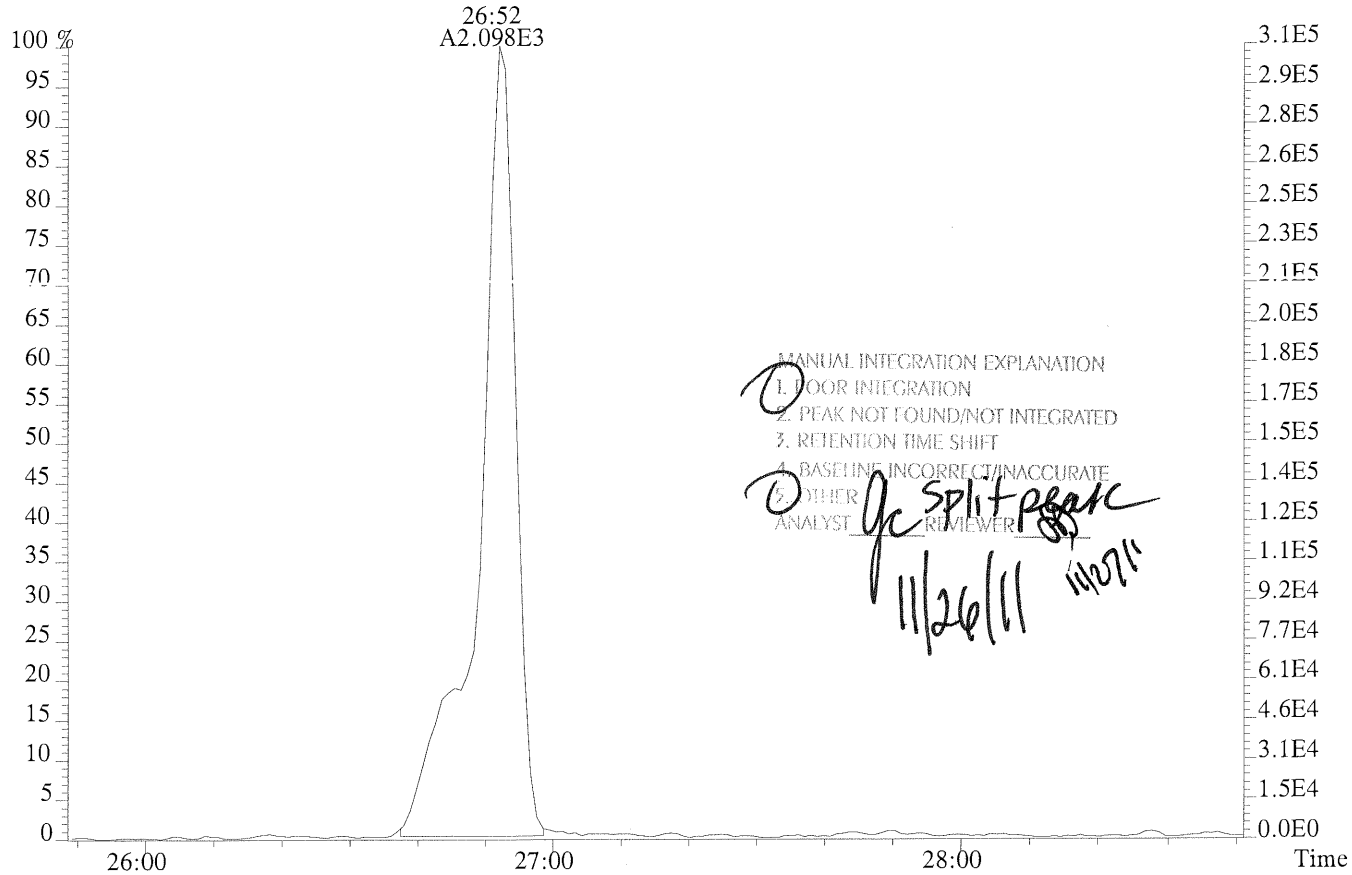
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0)



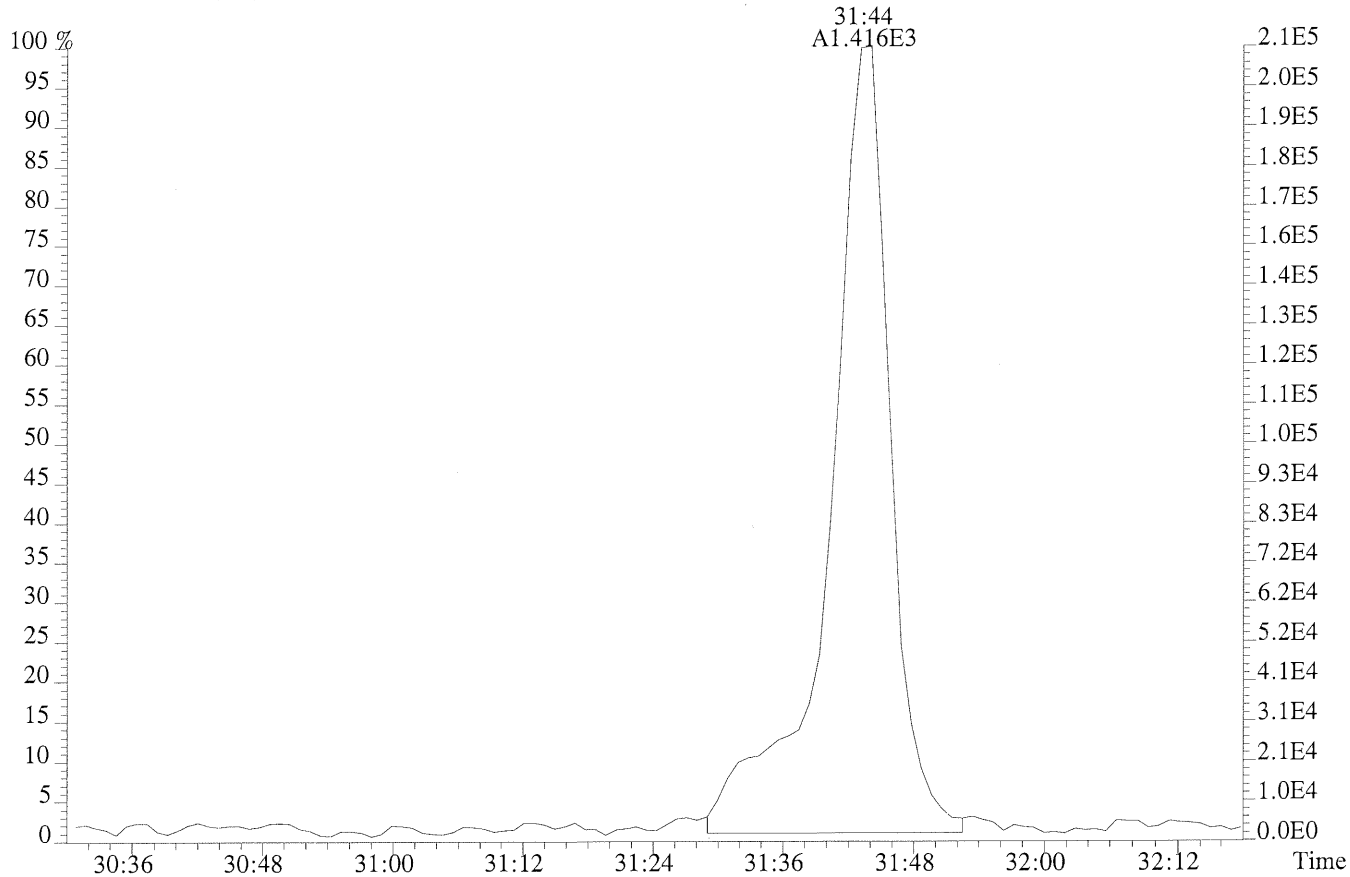
File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4288.0,1.00%,F,T)



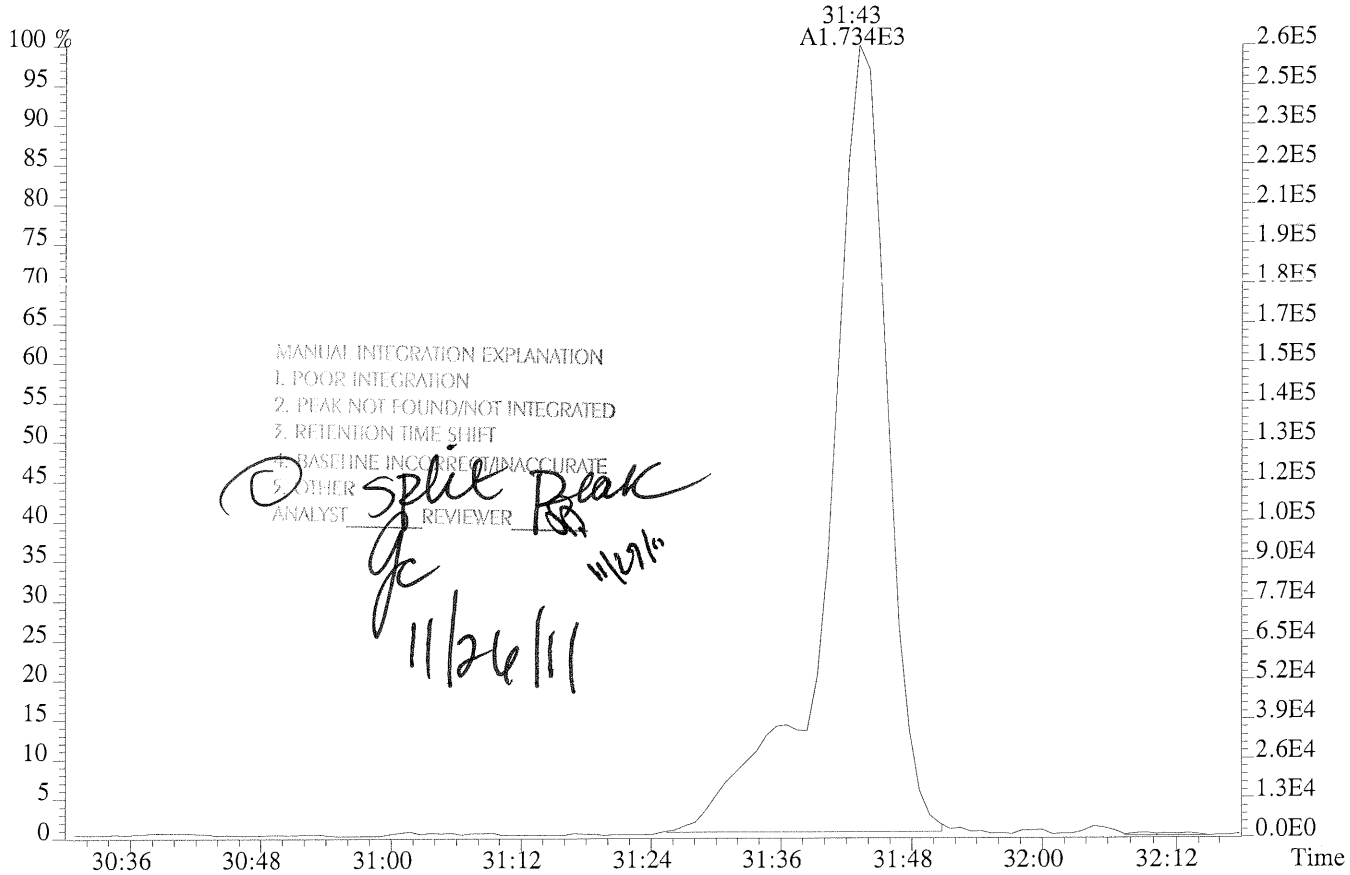
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1524.0,1.00%,F,T)



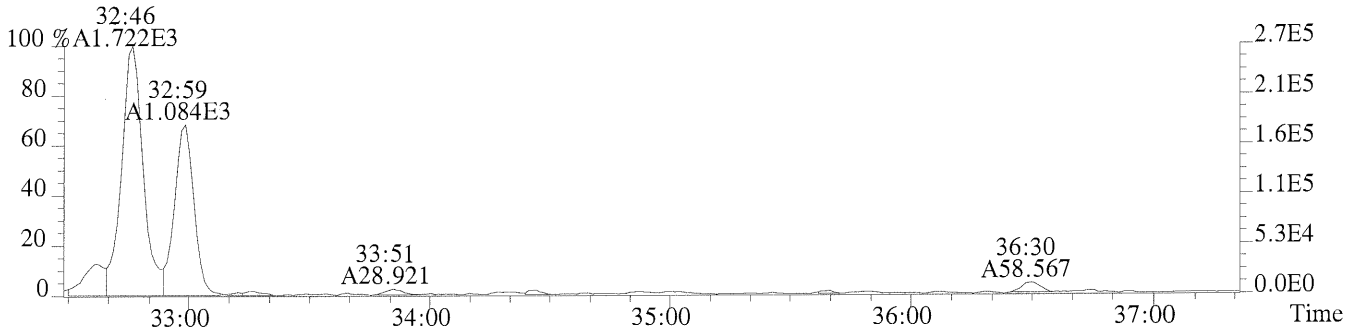
File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0)



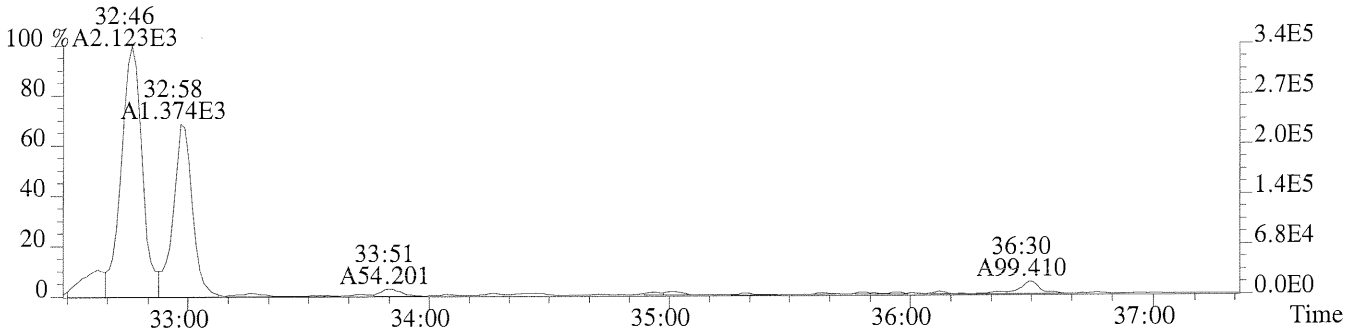
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1524.0,1.00%,F,T)



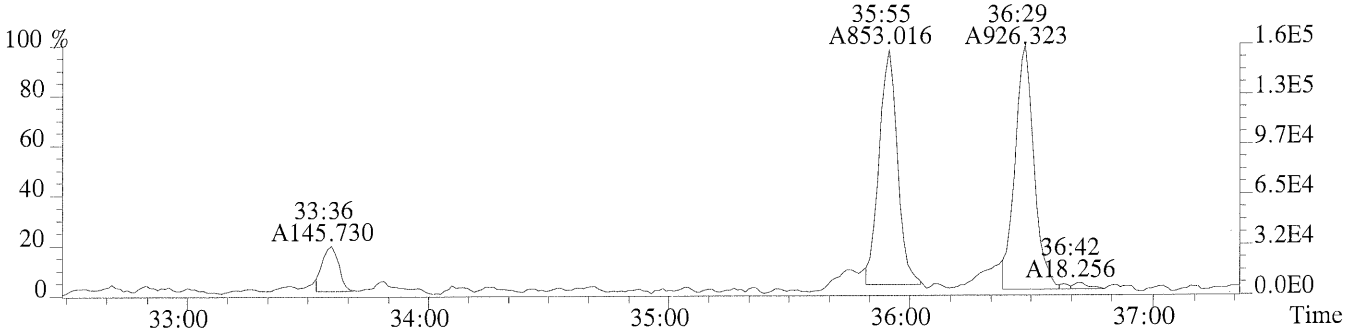
File:U142152 #1-312 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1640.0,1.00%,F,T)



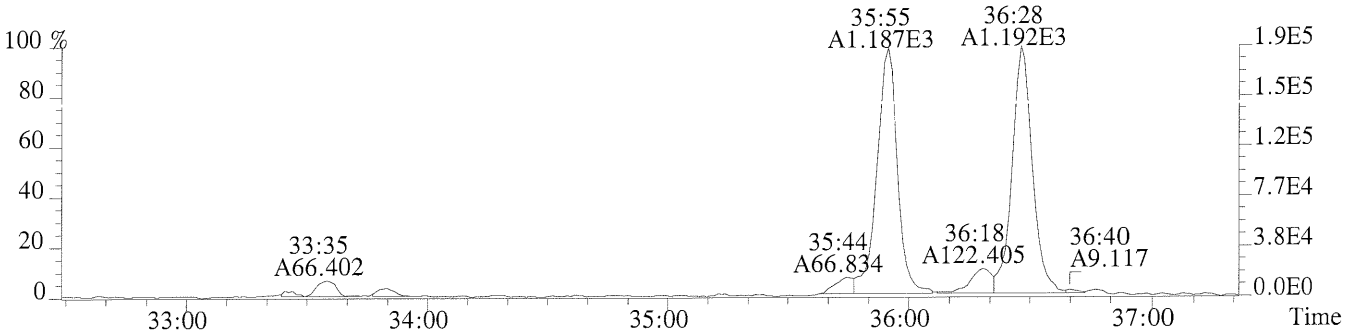
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1304.0,1.00%,F,T)



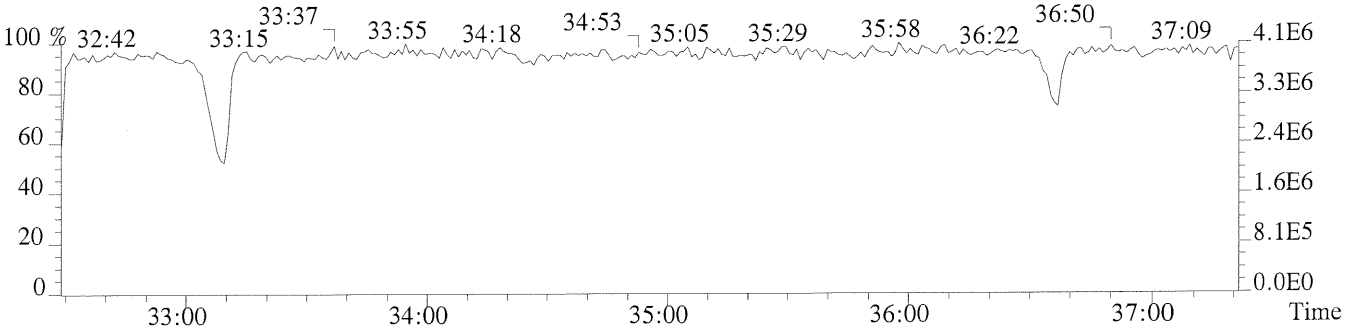
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5884.0,1.00%,F,T)



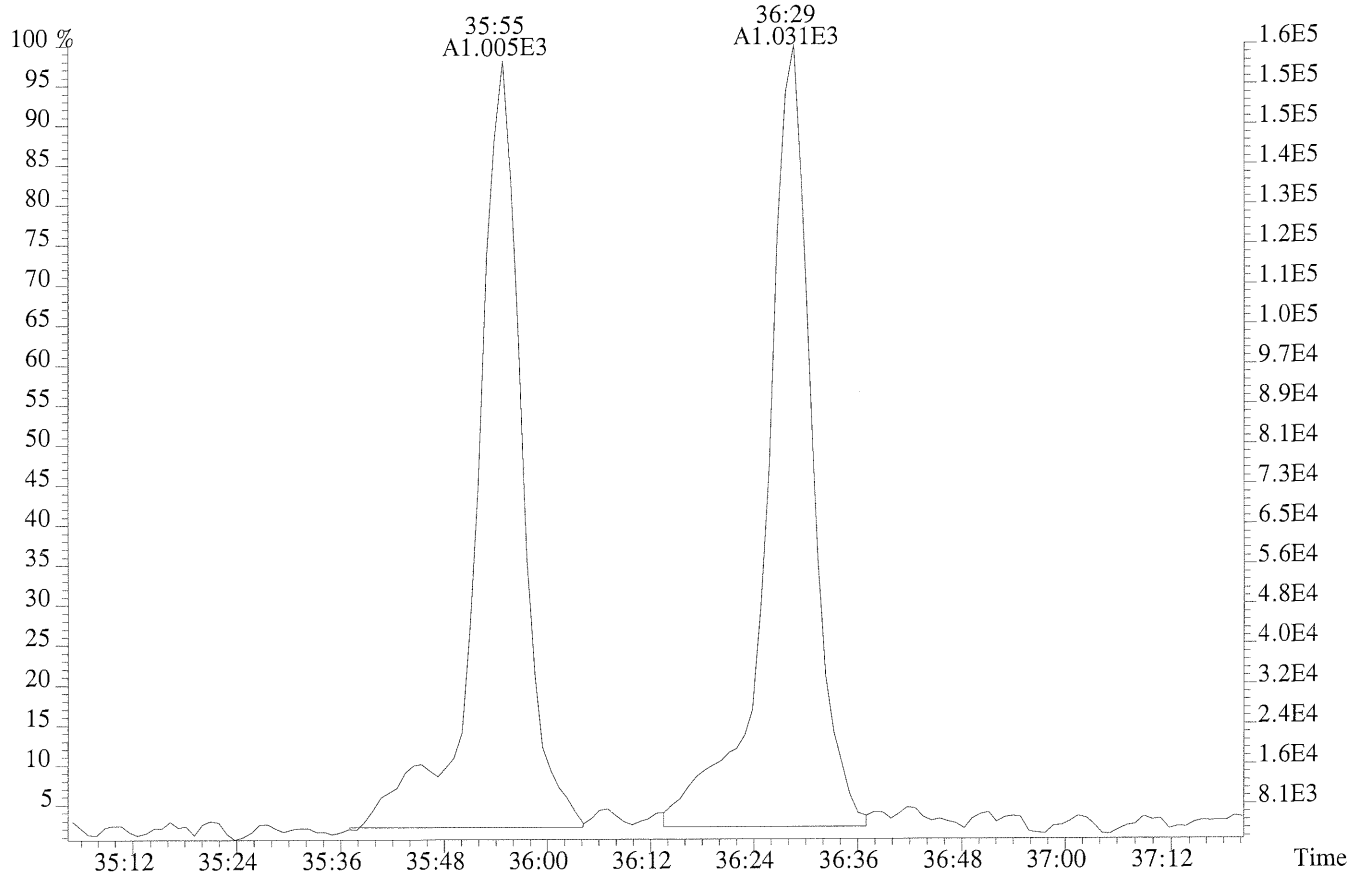
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1524.0,1.00%,F,T)



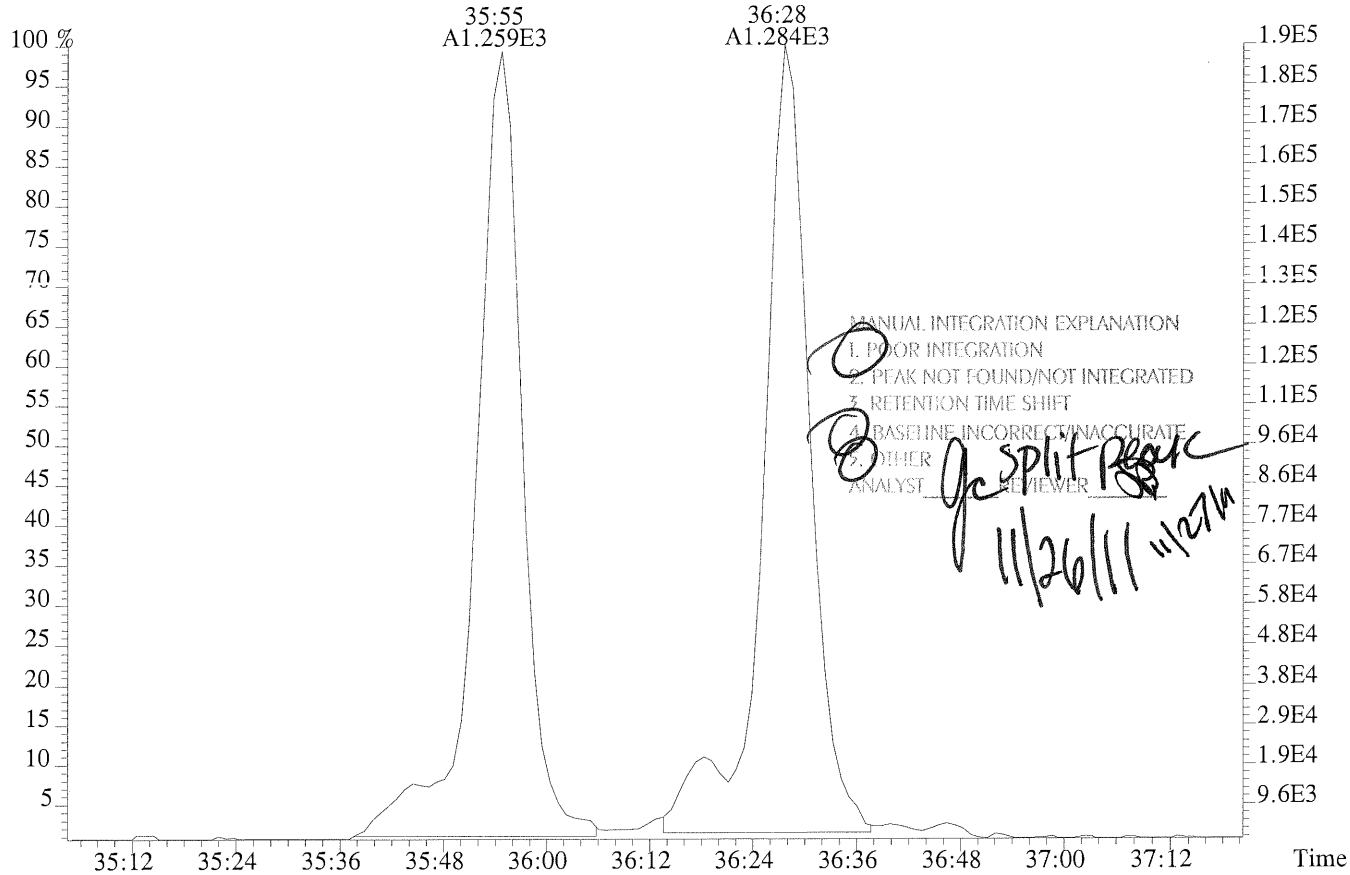
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



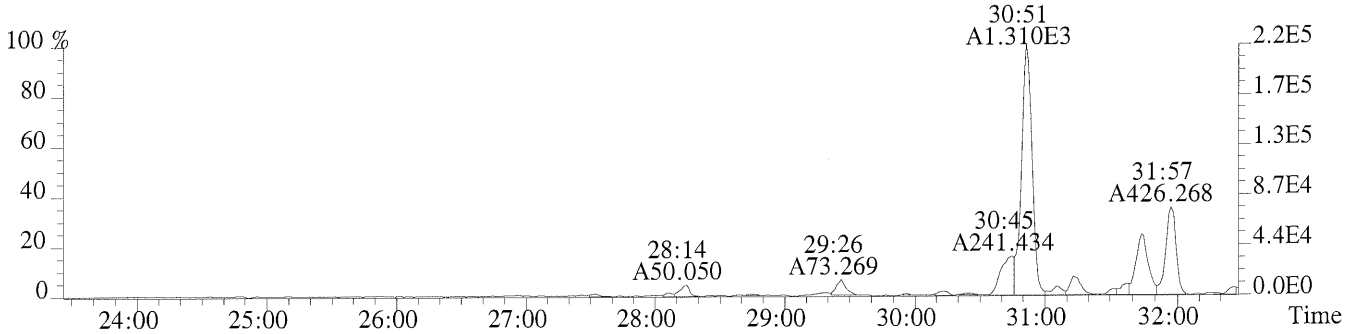
File:U142152 #1-312 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5884.0,1.00%,F,T)



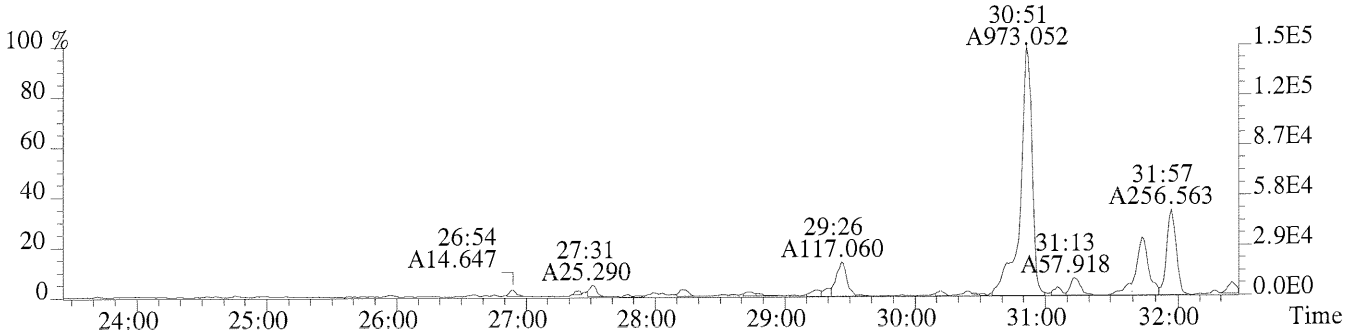
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1524.0,1.00%,F,T)



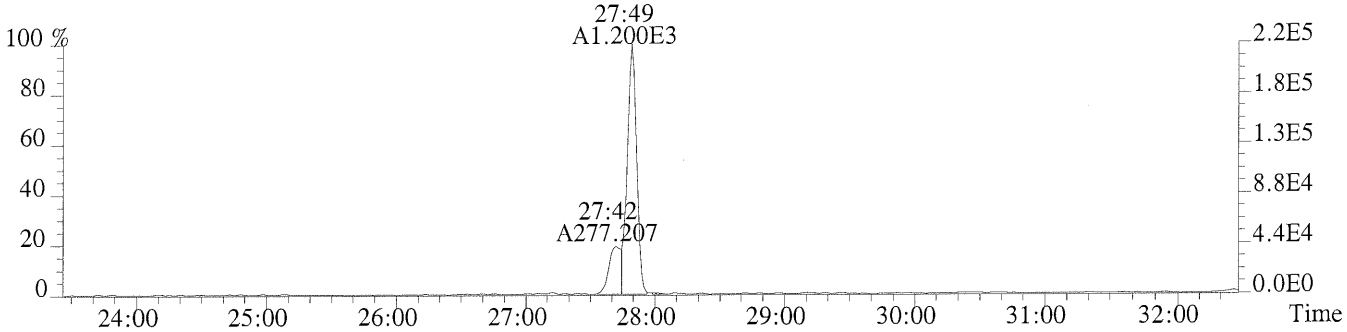
File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,736.0,1.00%,F,T)



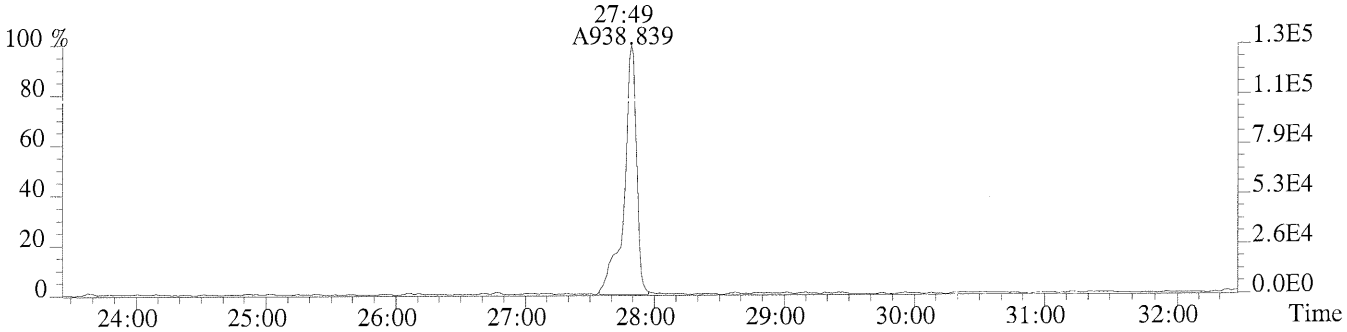
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,812.0,1.00%,F,T)



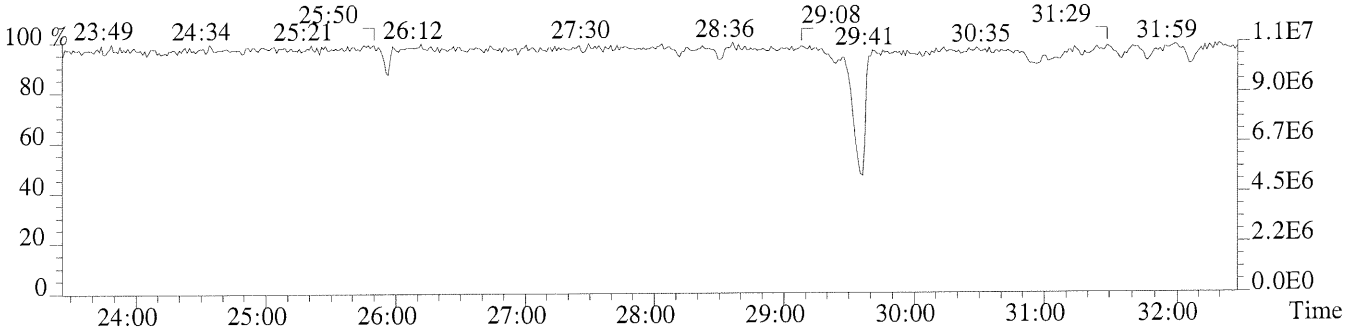
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)



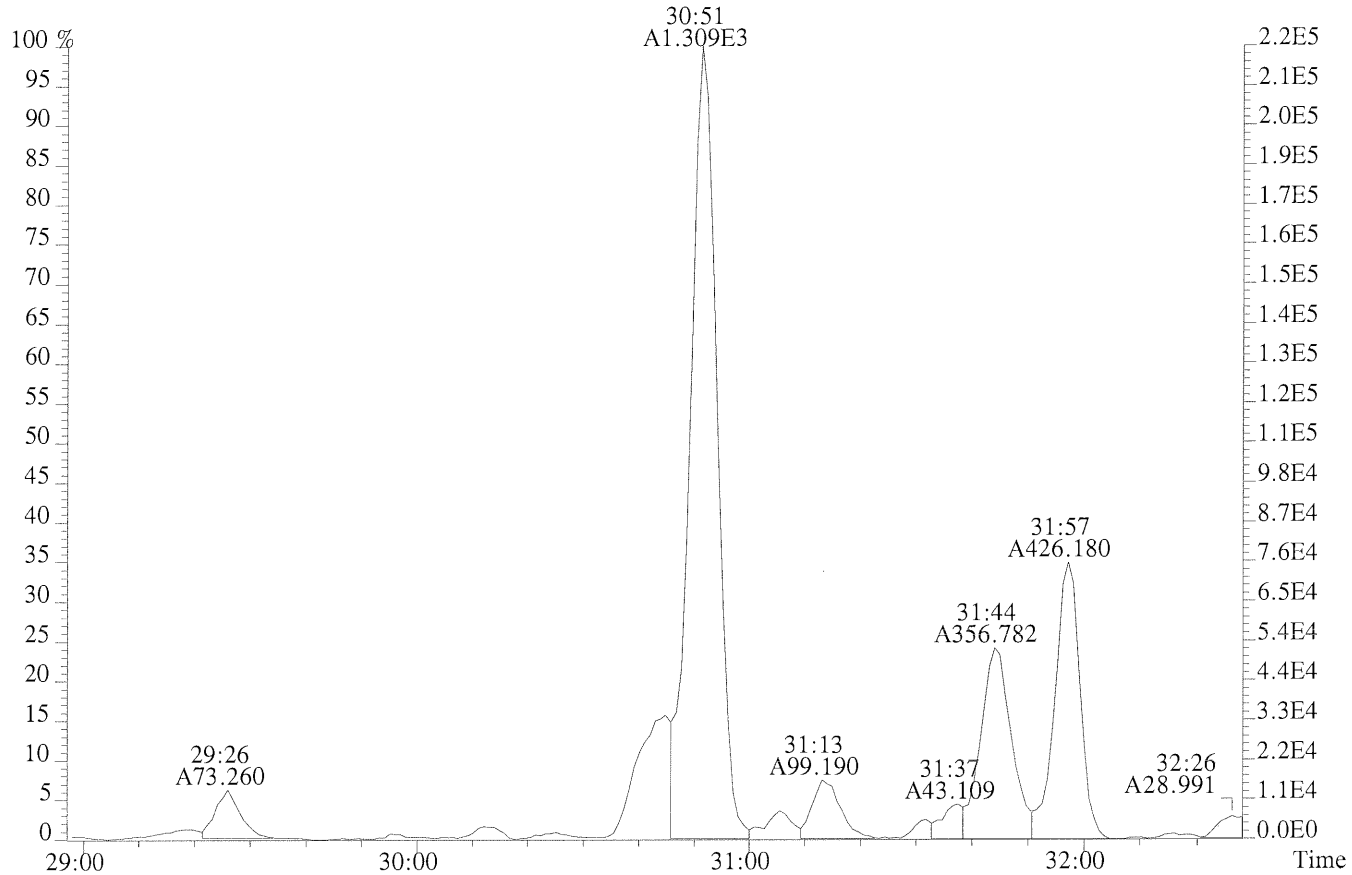
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,812.0,1.00%,F,T)



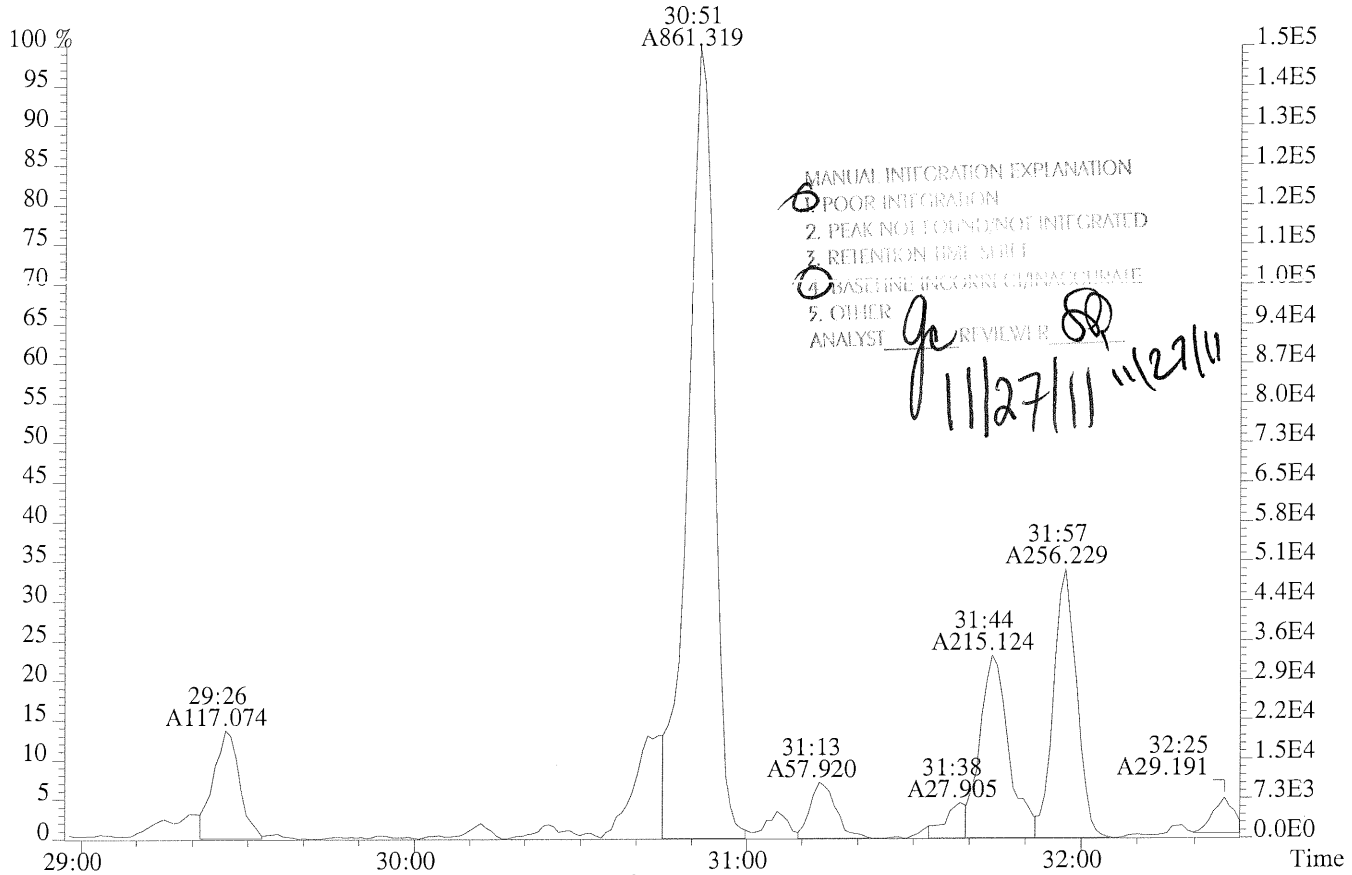
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0)

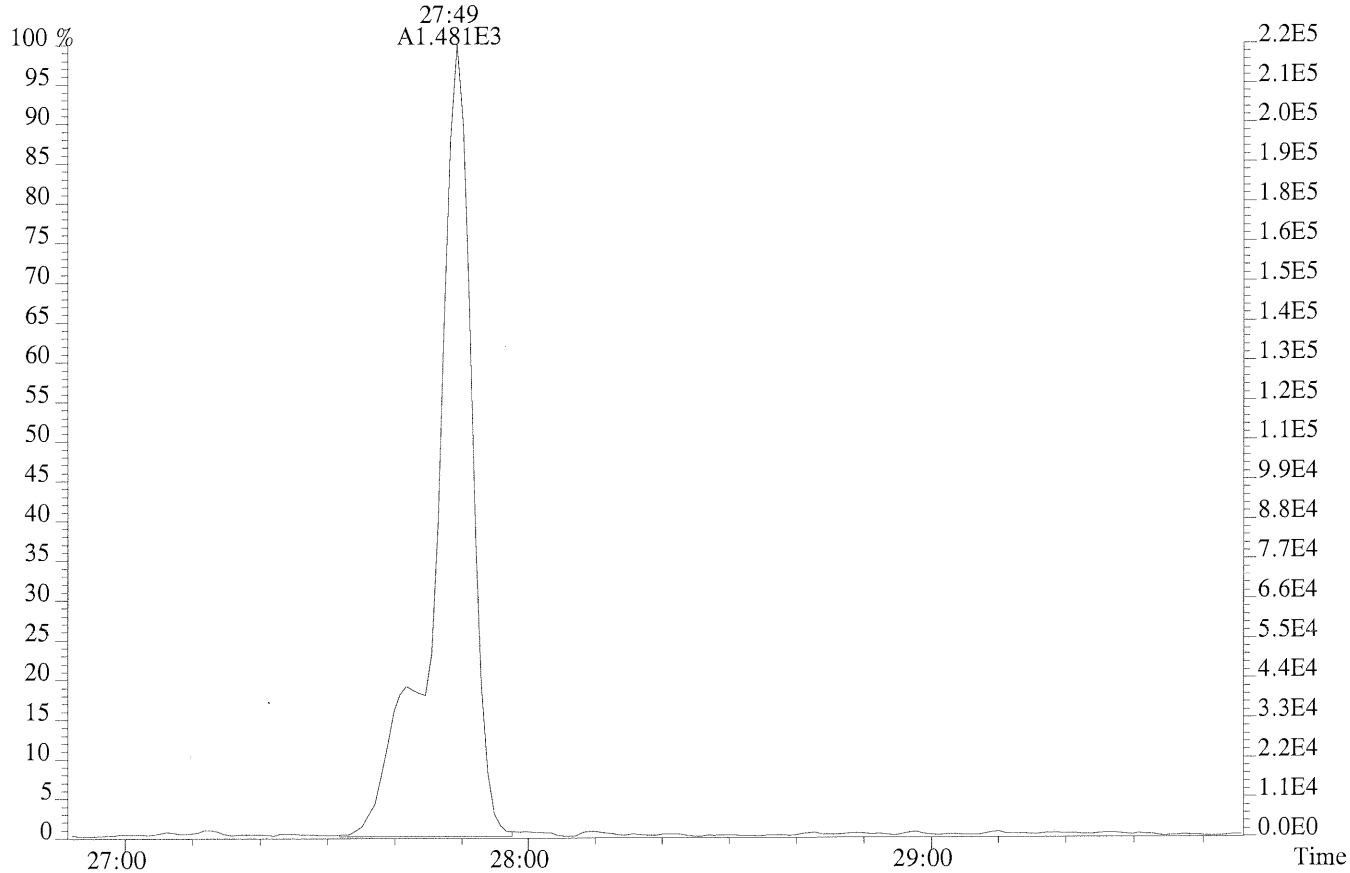


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0)

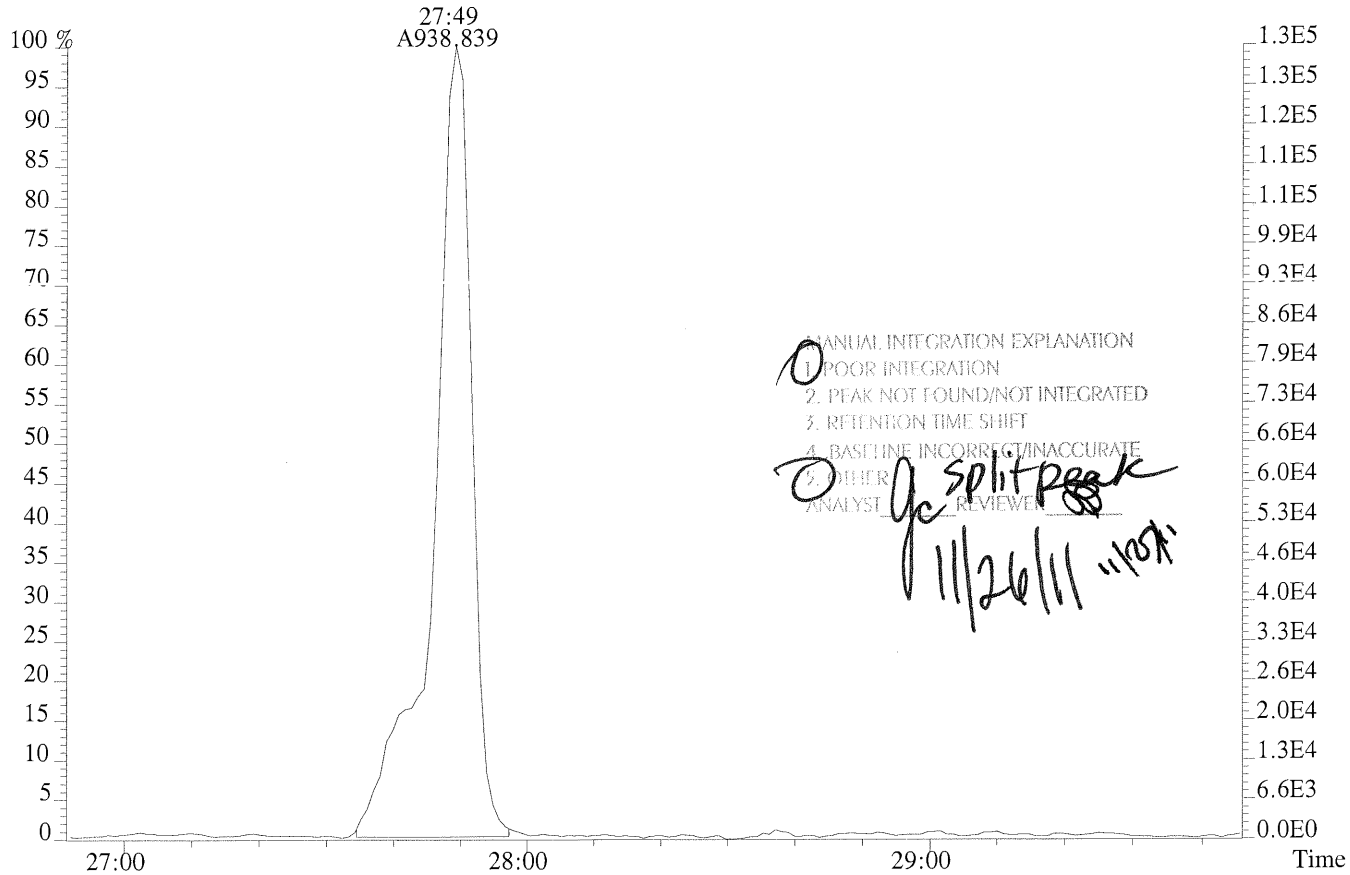


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST gc 11/27/11 REVIEWER SR 11/27/11

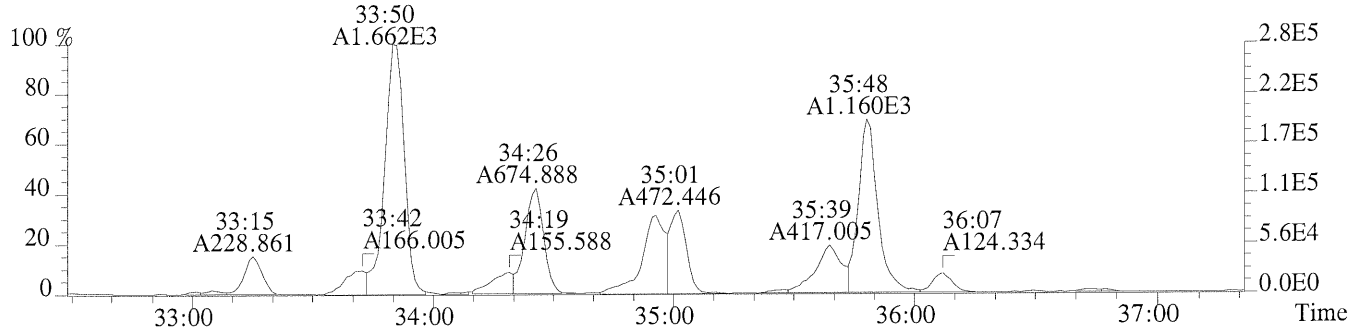
File:U142152 #1-578 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)



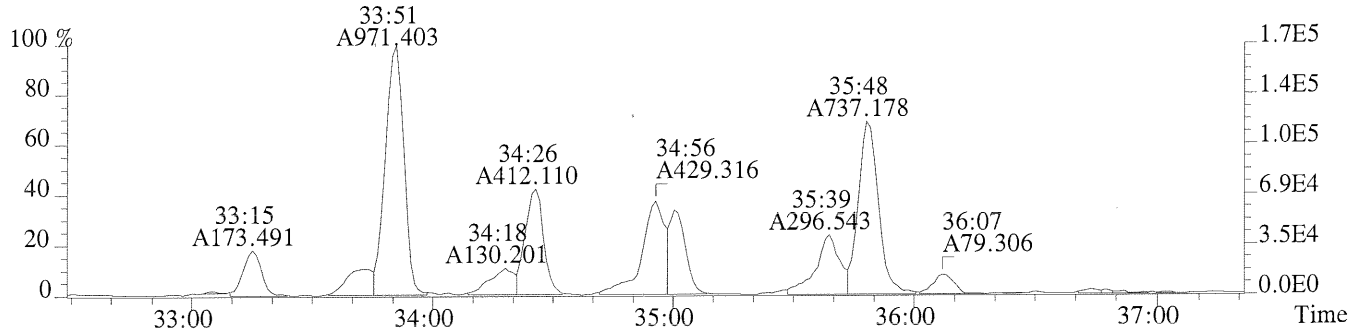
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,812.0,1.00%,F,T)



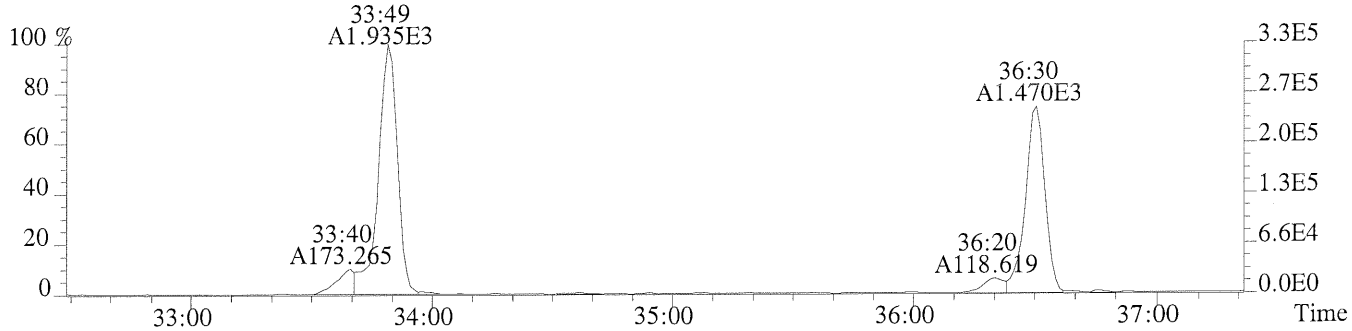
File:U142152 #1-312 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1212.0,1.00%,F,T)



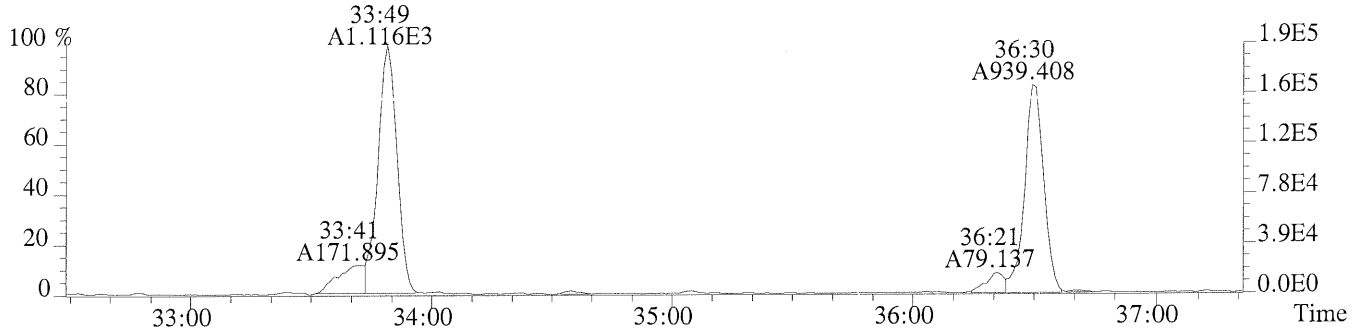
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



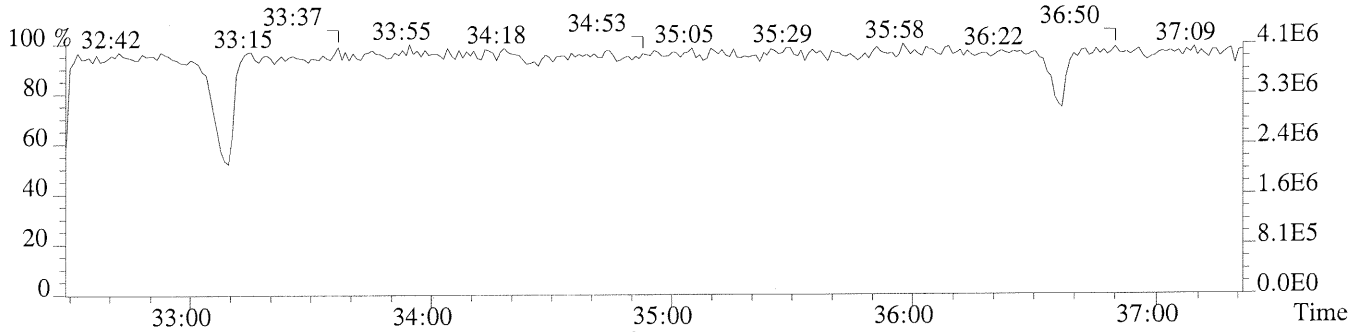
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1012.0,1.00%,F,T)



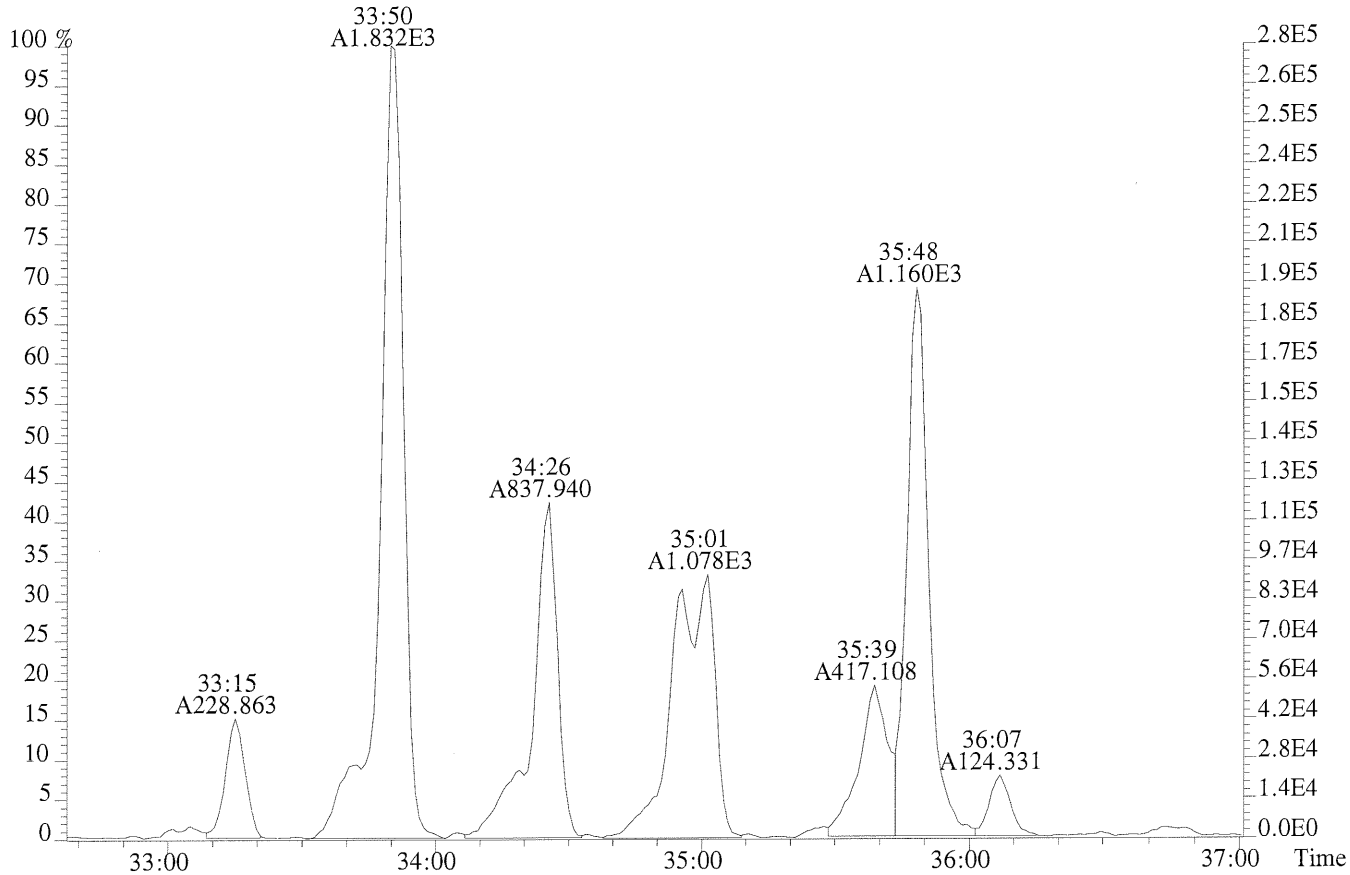
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1044.0,1.00%,F,T)



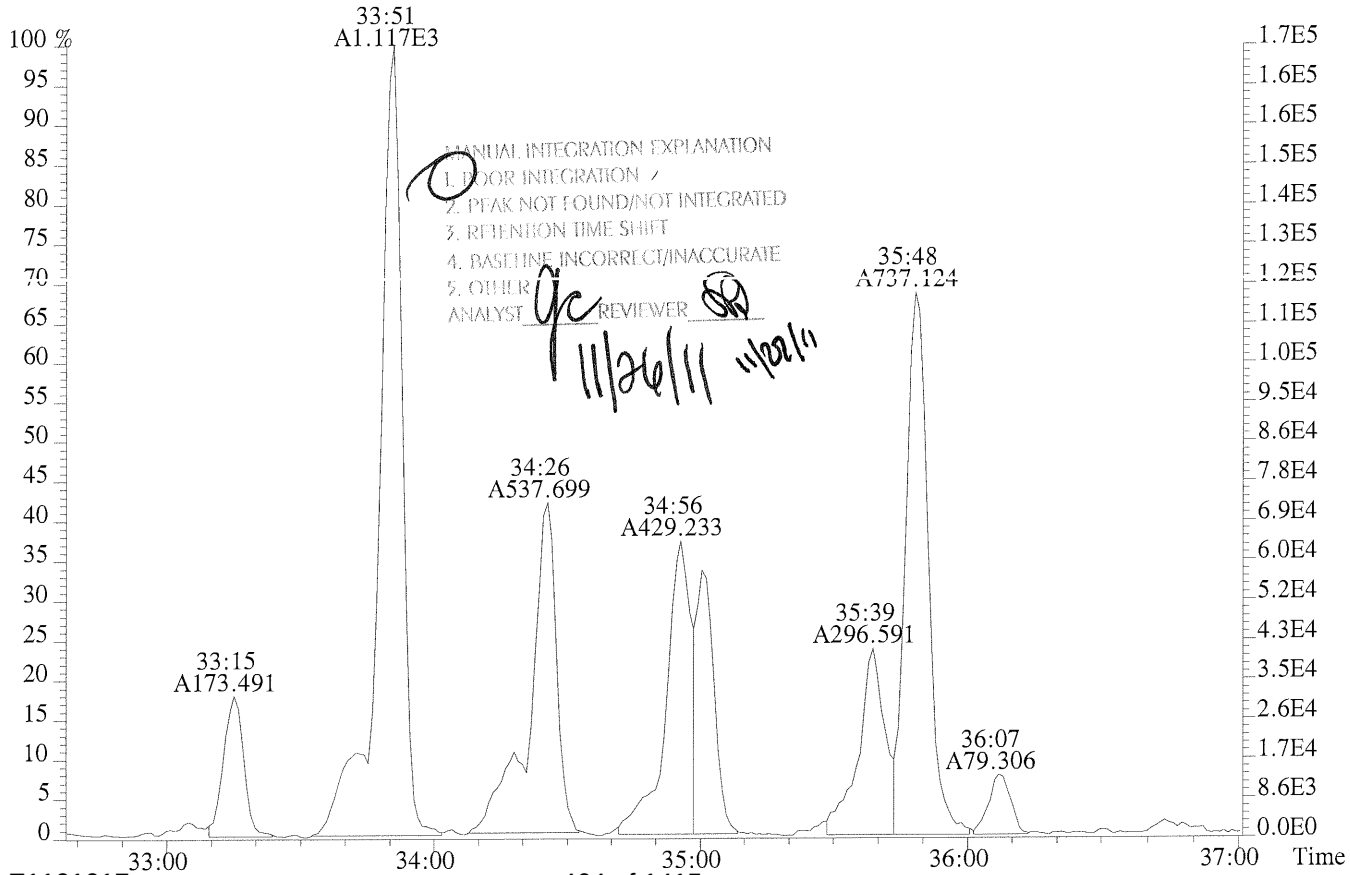
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



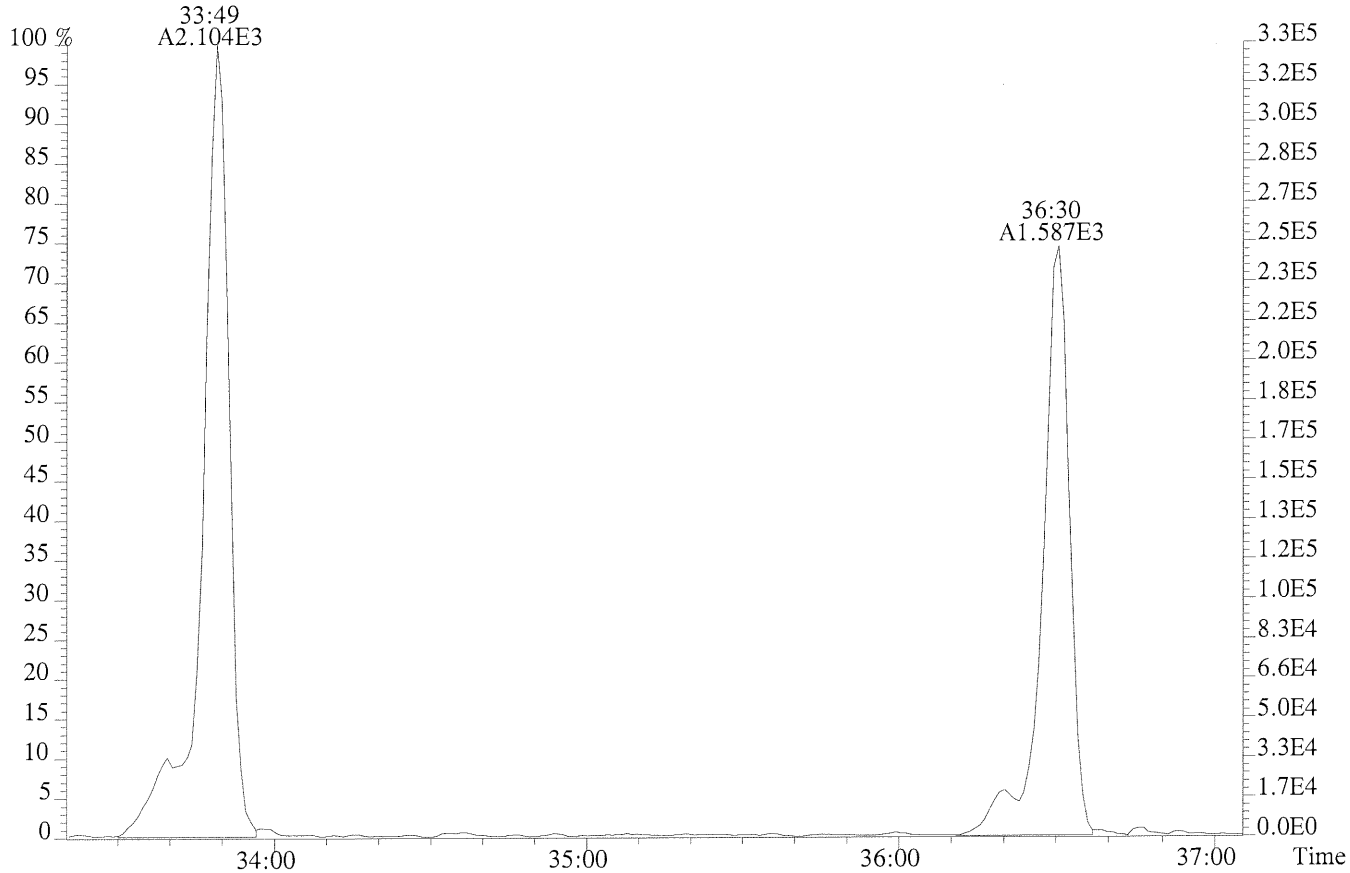
File:U142152 #1-312 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0)



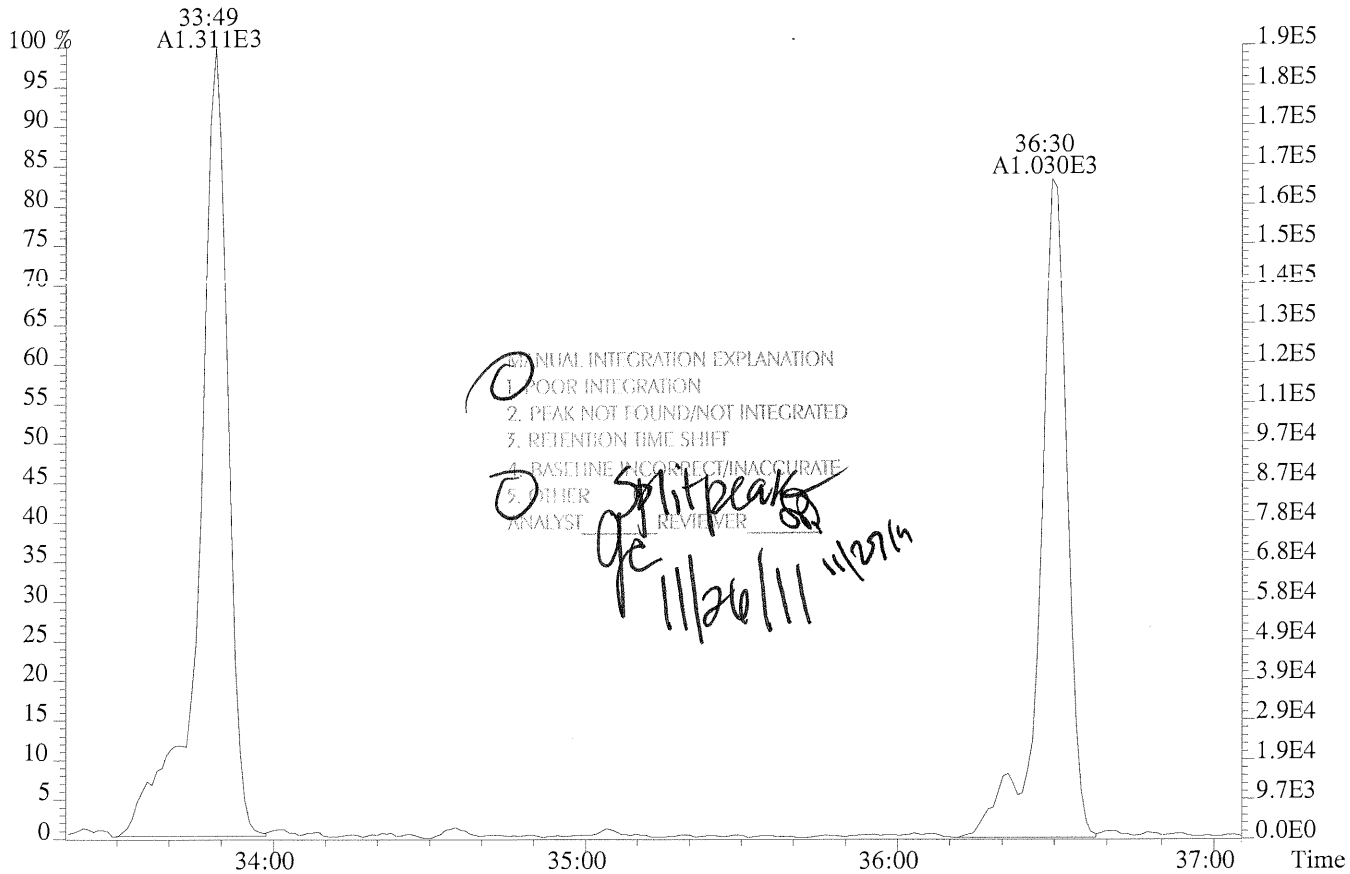
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0)



File:U142152 #1-312 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1012.0,1.00%,F,T)

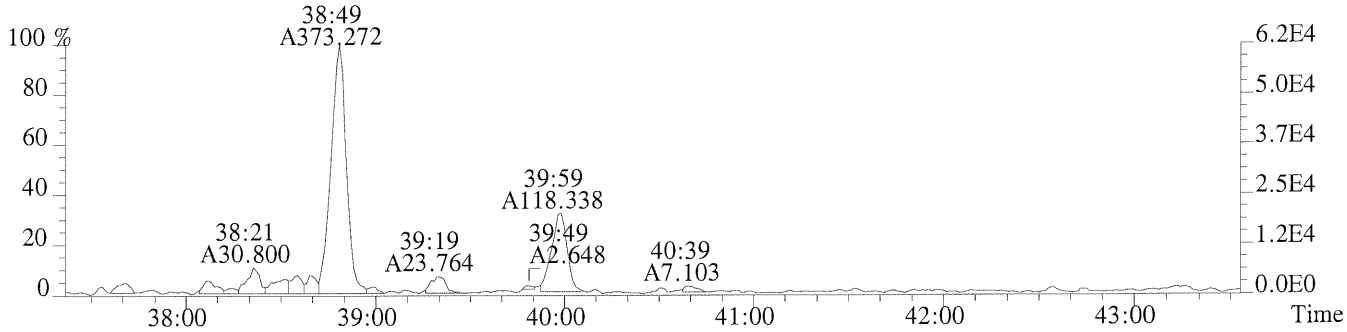


339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1044.0,1.00%,F,T)

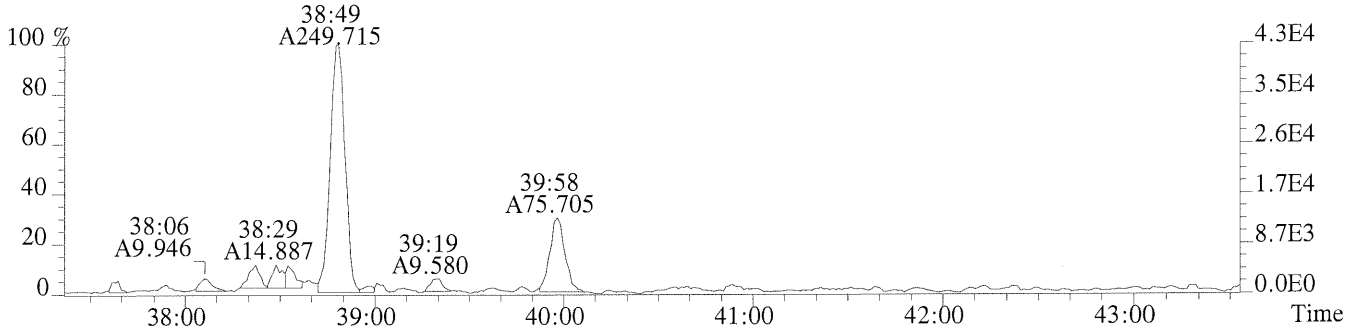


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER Splitpeaks
ANALYST JC REVIEWER 11/26/11 11/27/11

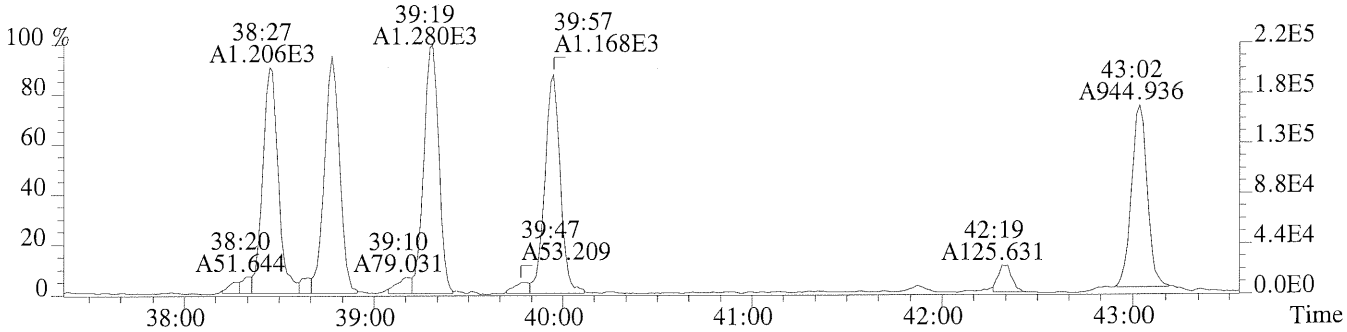
File:U142152 #1-396 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



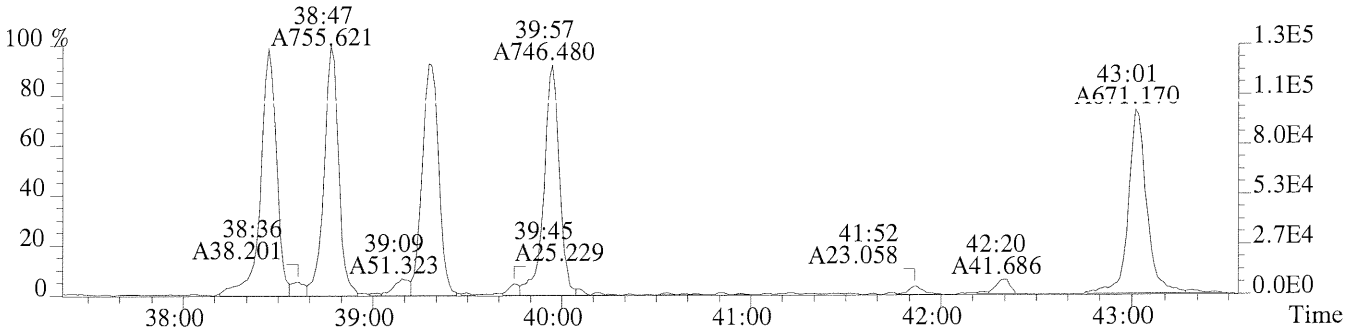
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



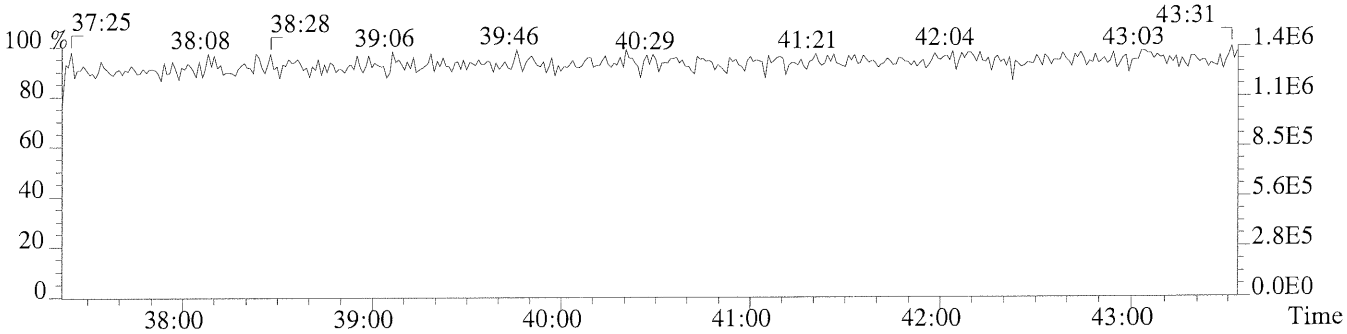
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2728.0,1.00%,F,T)



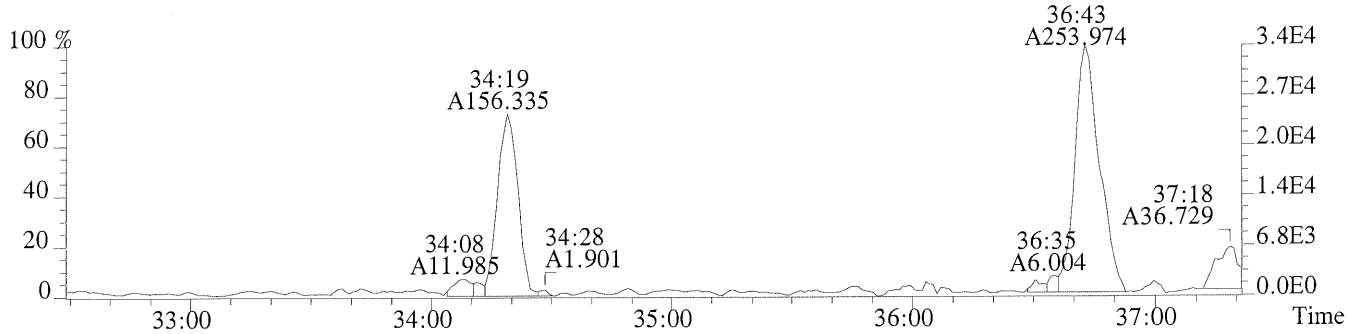
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,472.0,1.00%,F,T)



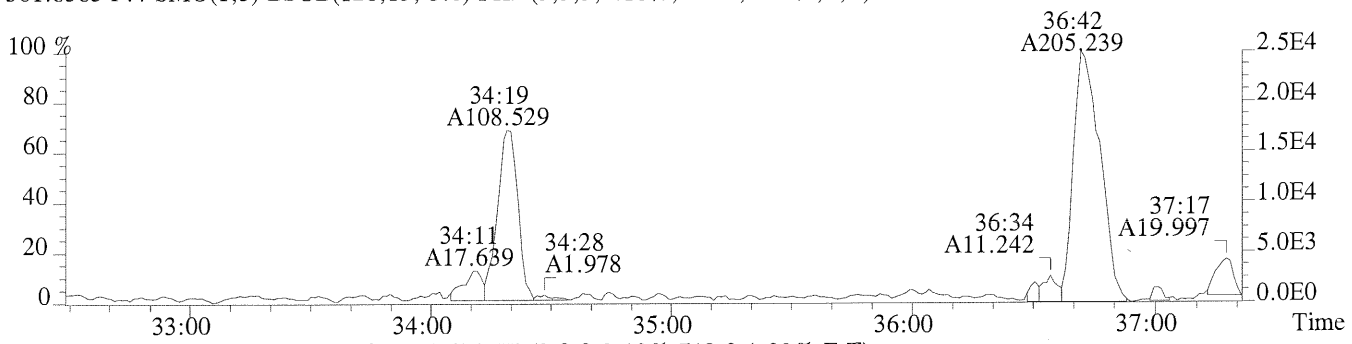
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



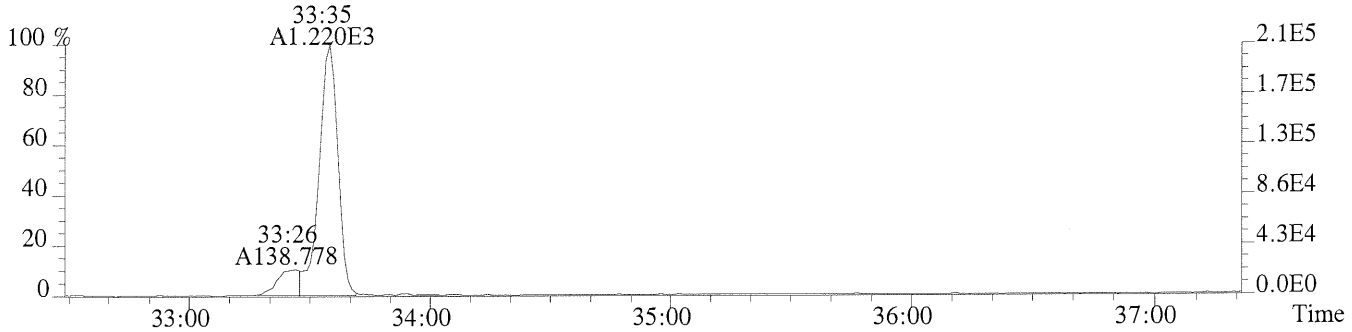
File:U142152 #1-312 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



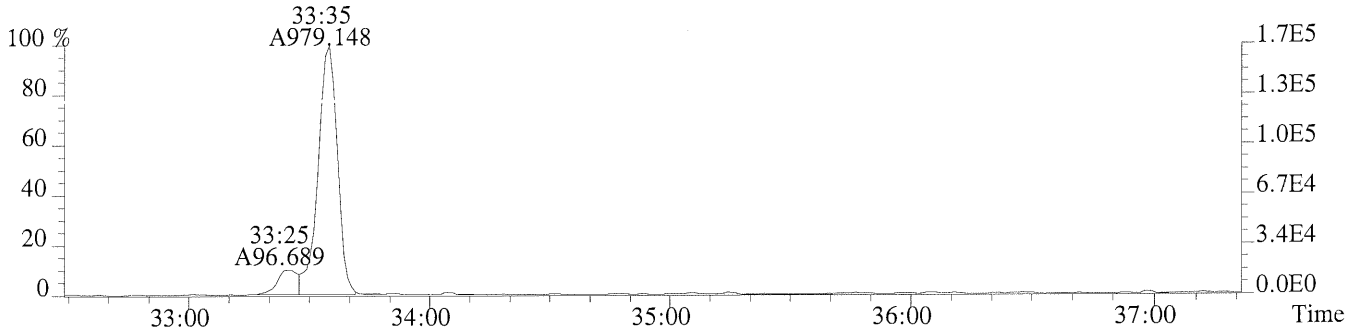
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,756.0,1.00%,F,T)



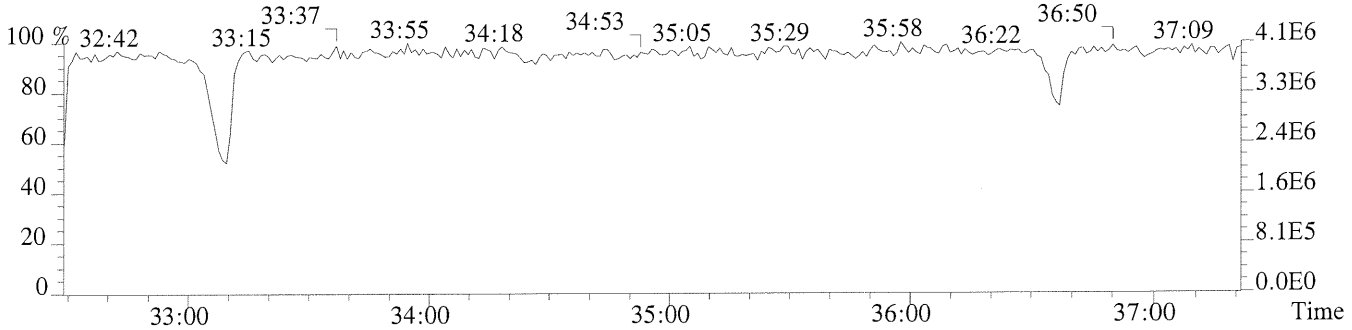
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,712.0,1.00%,F,T)



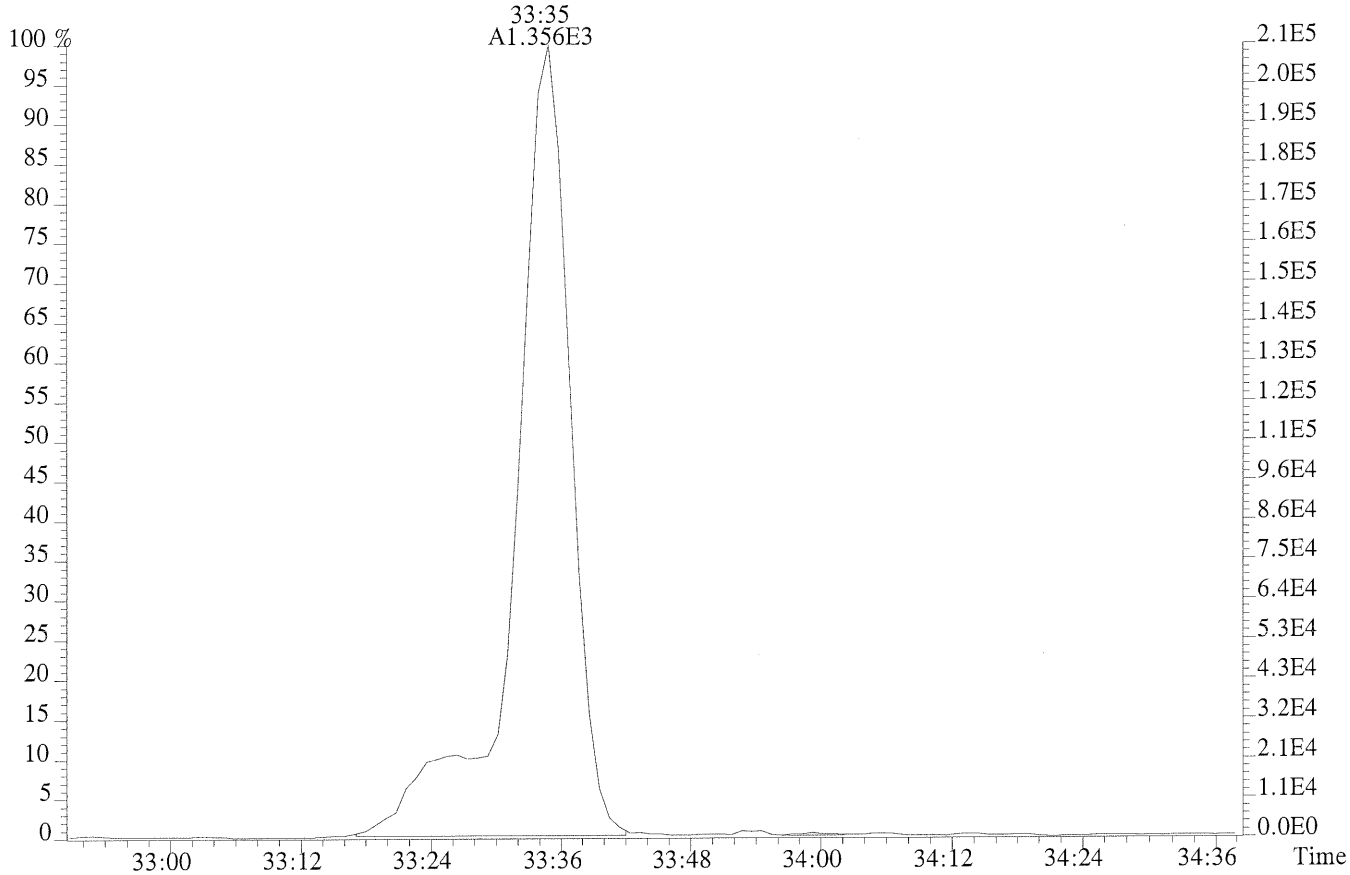
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



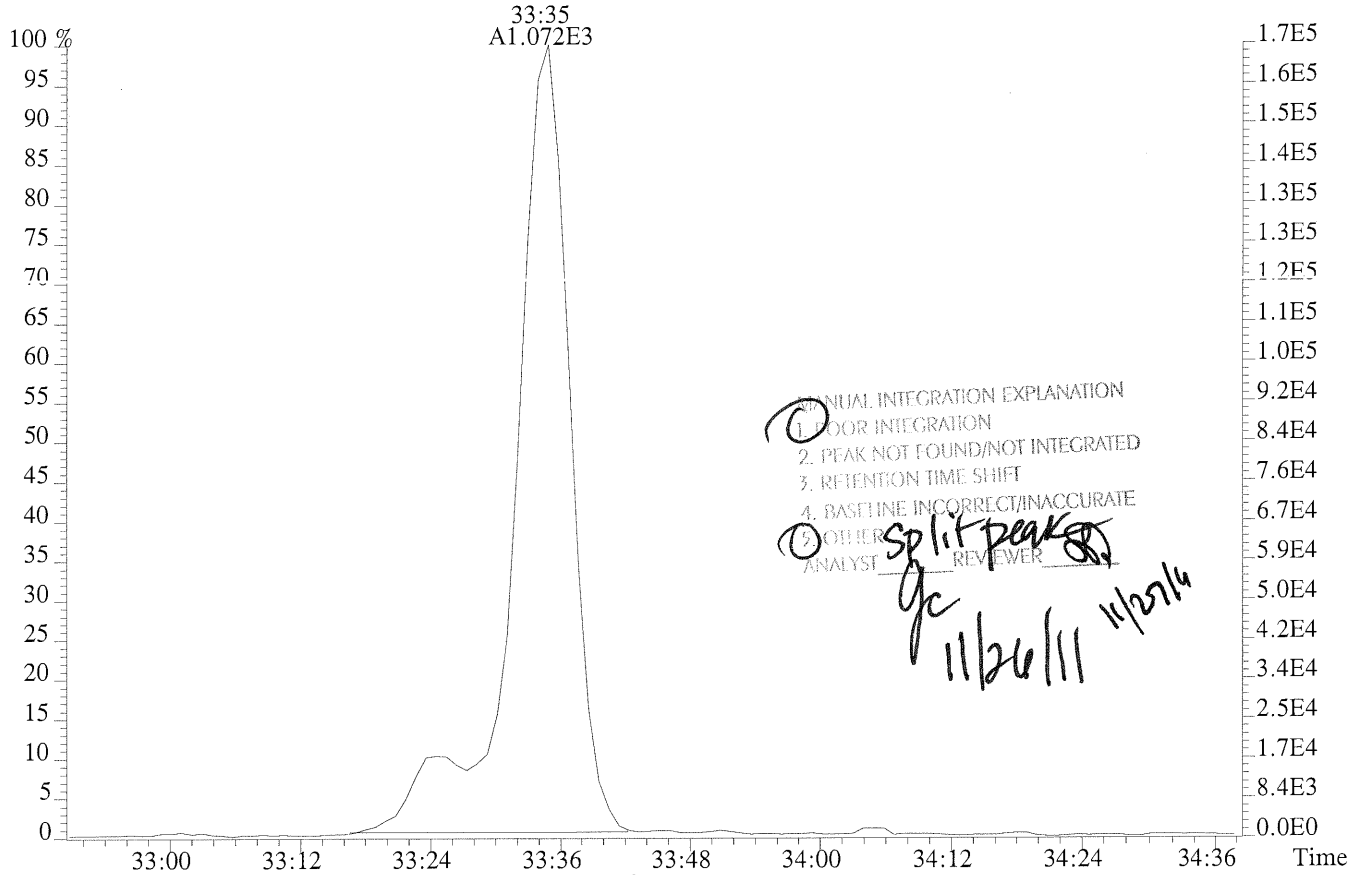
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



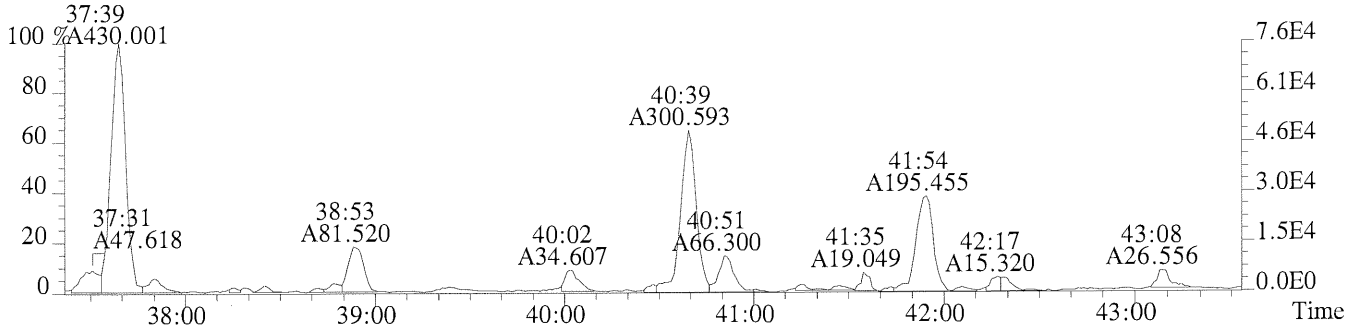
File:U142152 #1-312 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,712.0,1.00%,F,T)



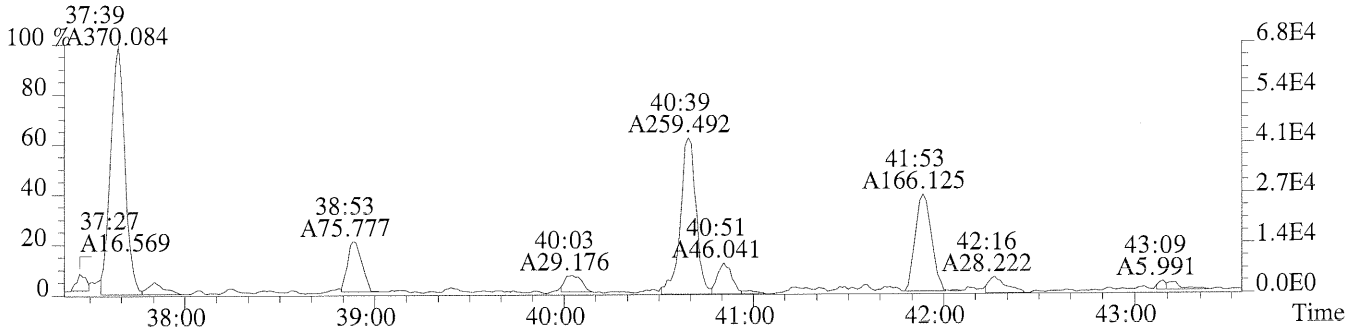
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



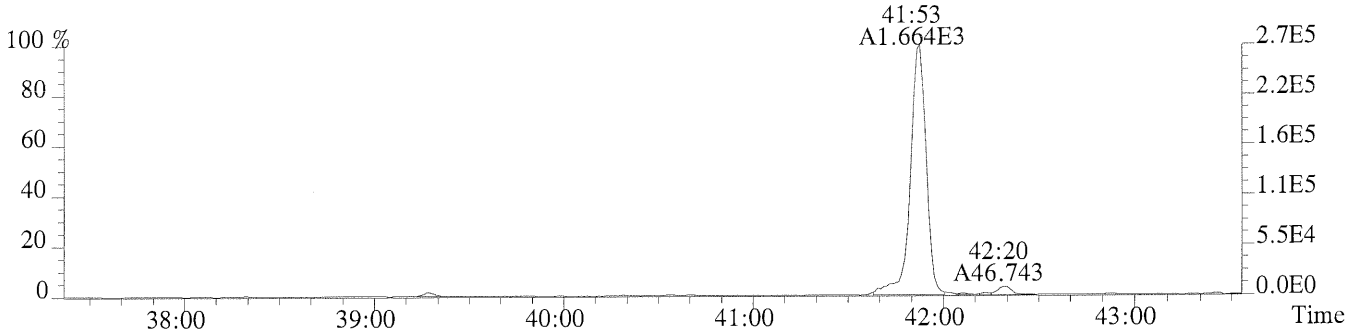
File:U142152 #1-396 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,684.0,1.00%,F,T)



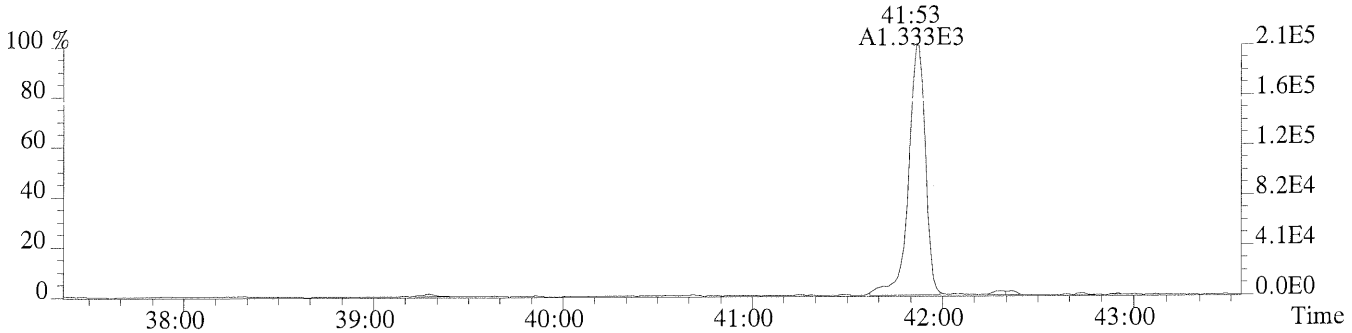
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1120.0,1.00%,F,T)



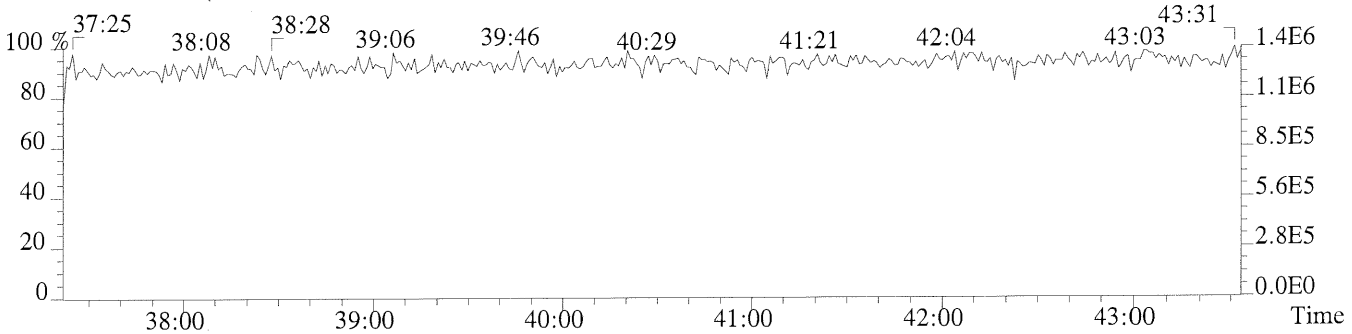
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



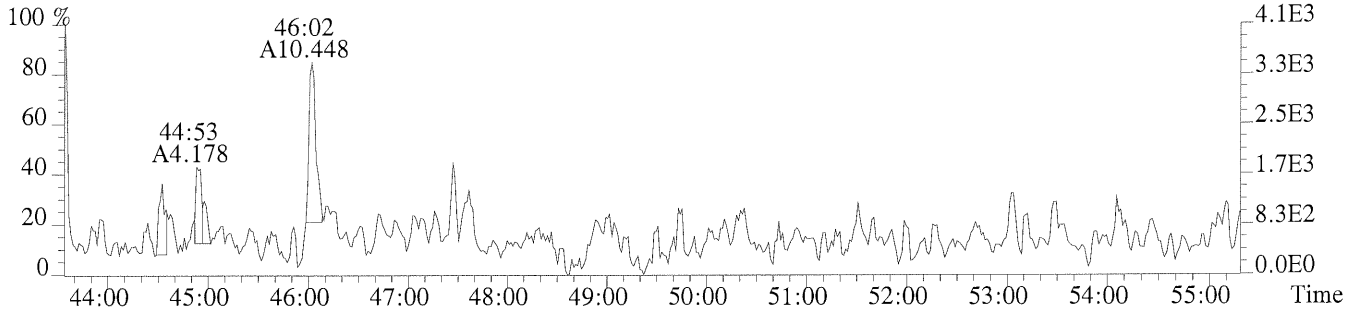
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,660.0,1.00%,F,T)



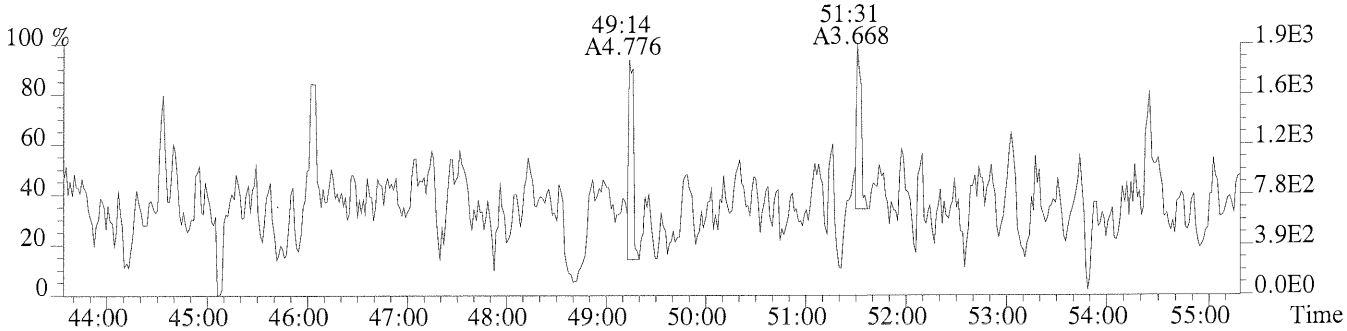
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



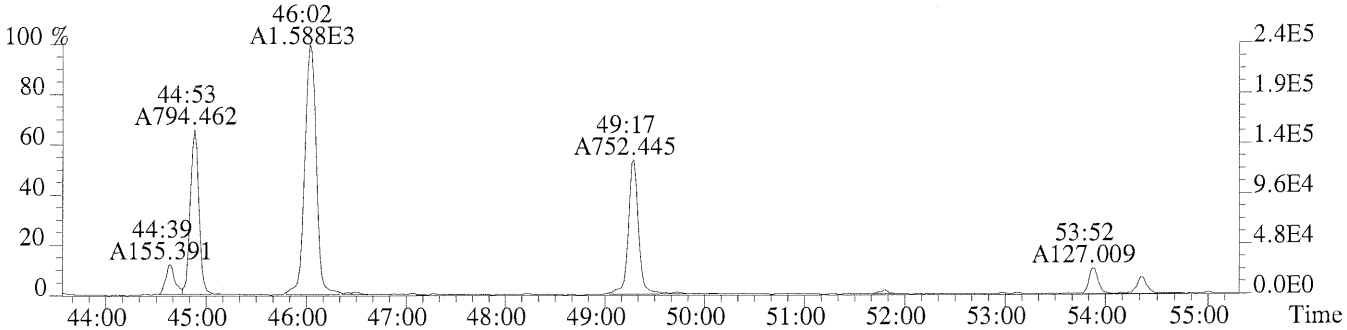
File:U142152 #1-582 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,732.0,1.00%,F,T)



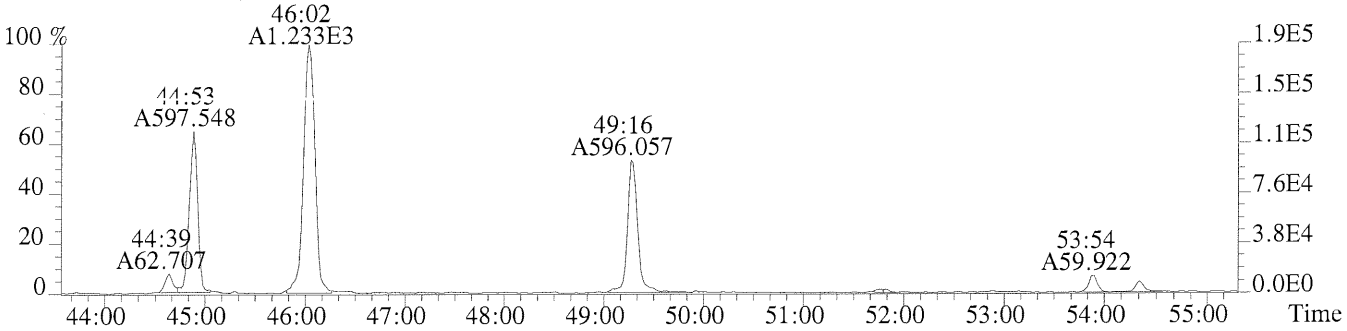
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



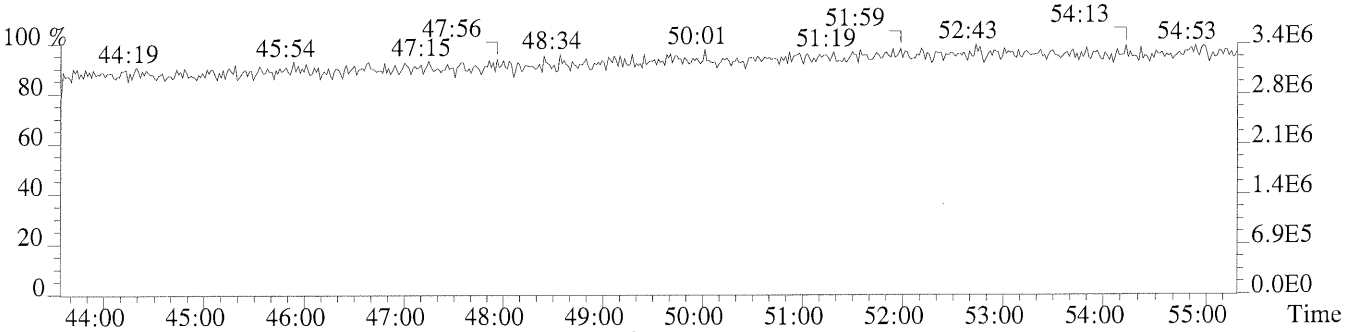
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,692.0,1.00%,F,T)



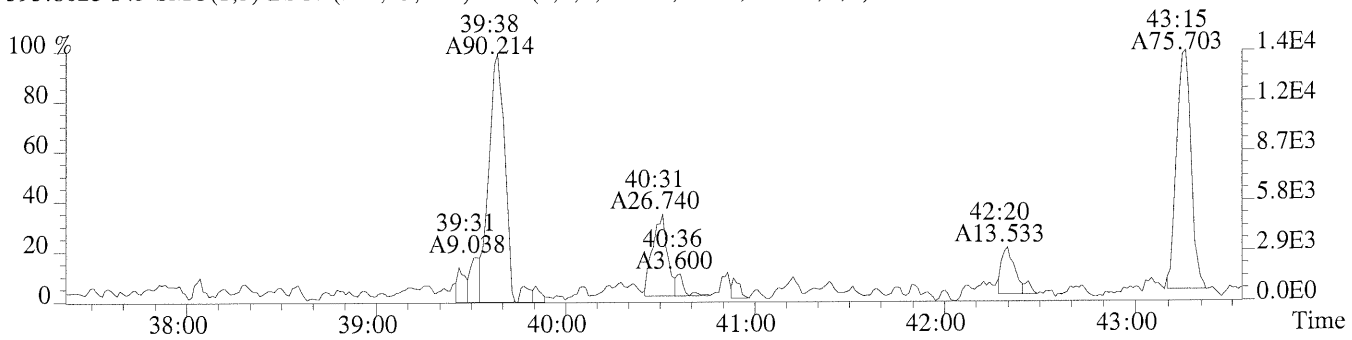
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)



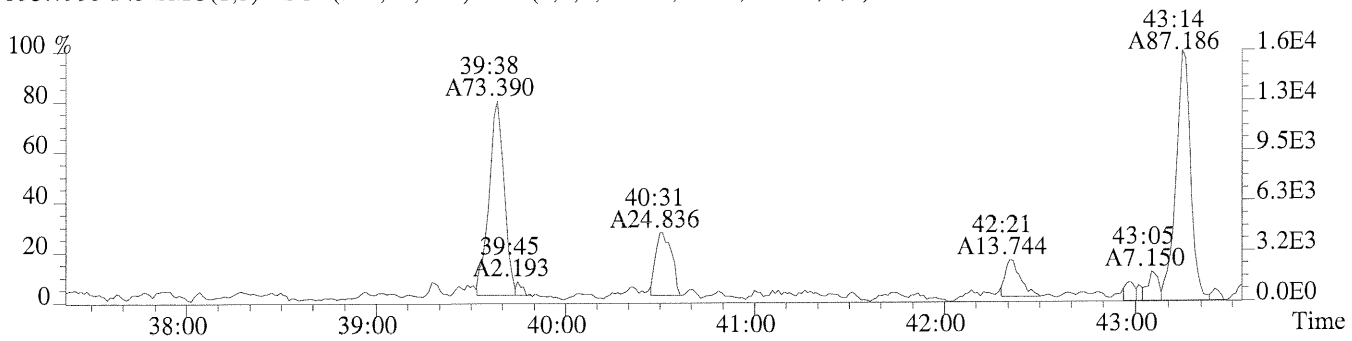
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



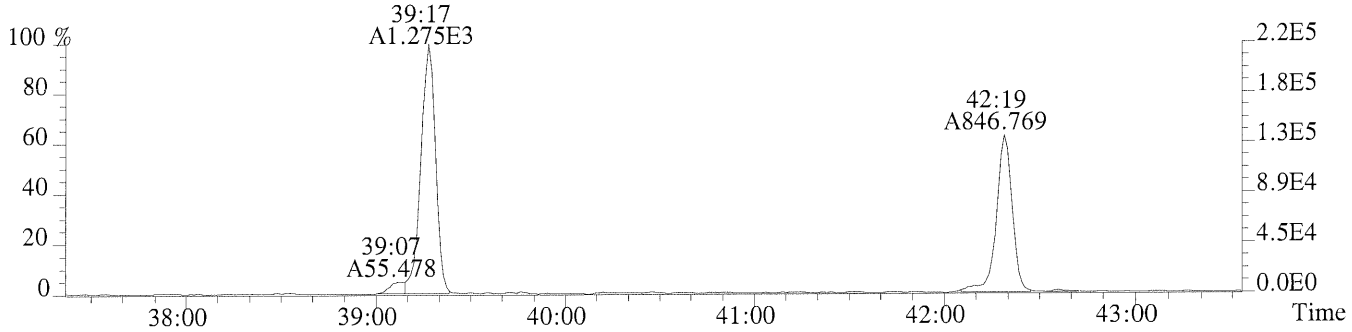
File:U142152 #1-396 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)



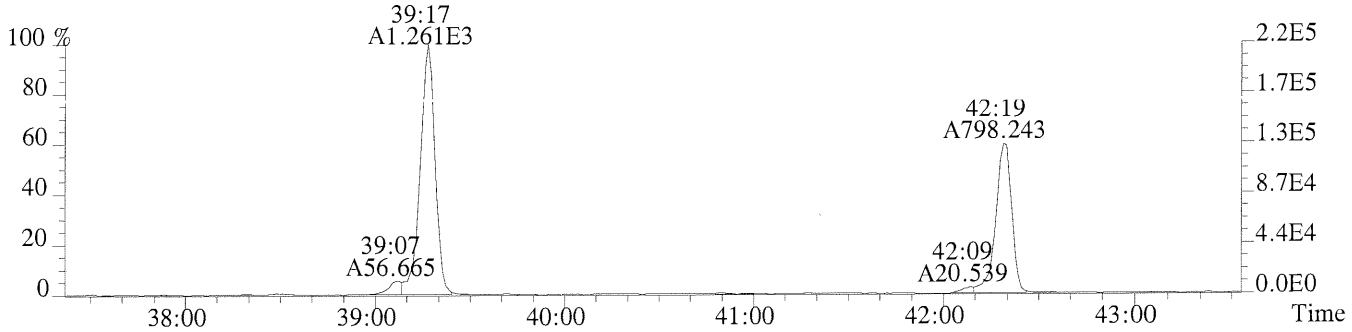
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,600.0,1.00%,F,T)



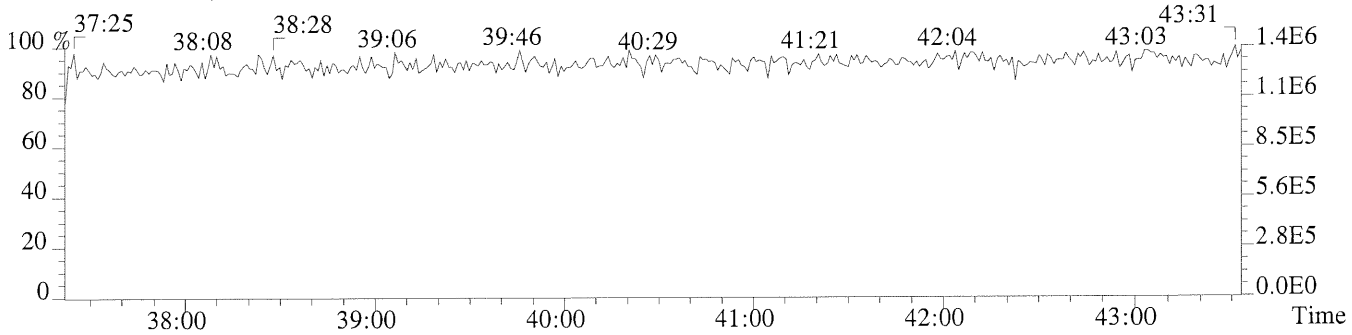
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1016.0,1.00%,F,T)



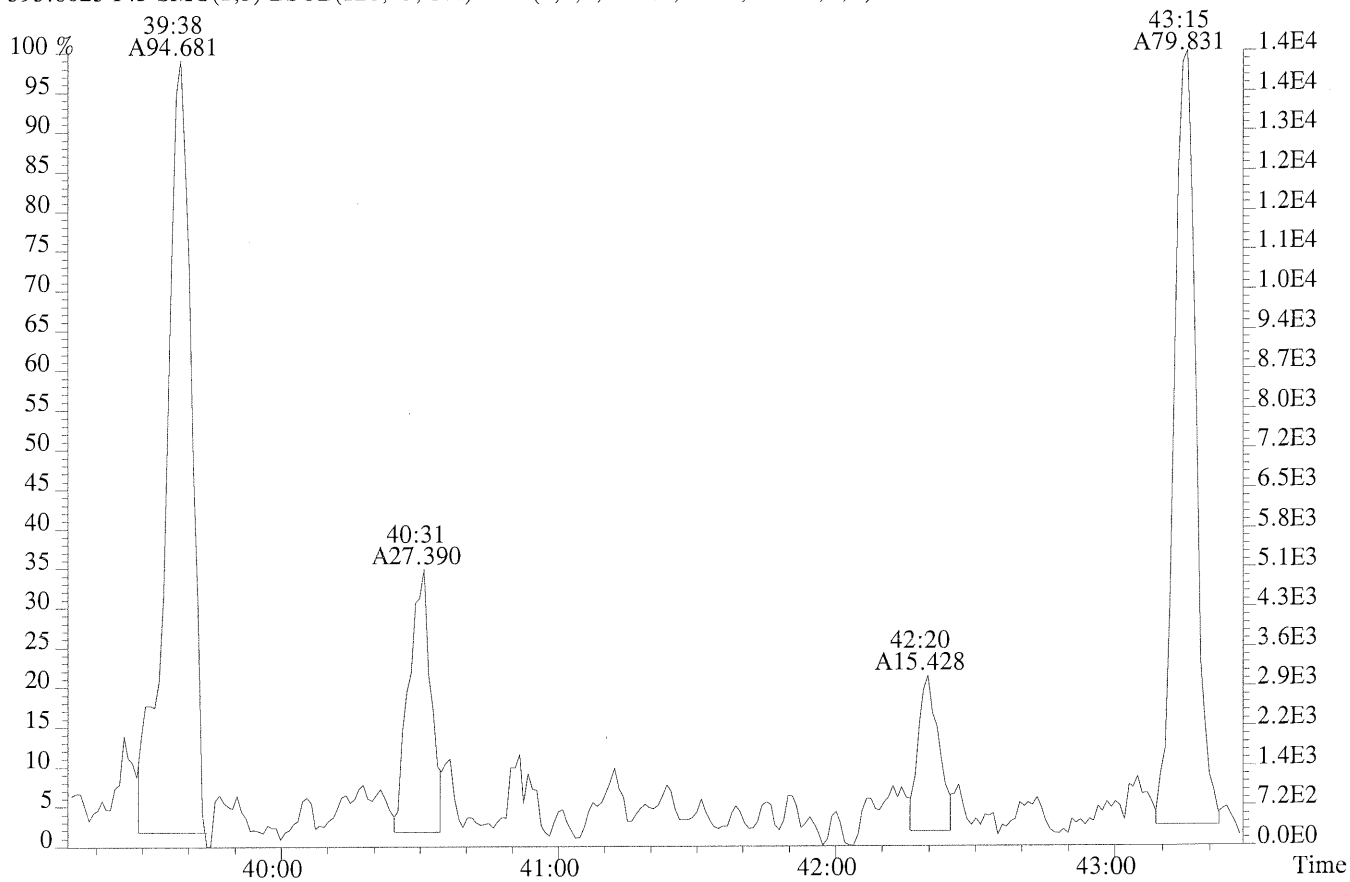
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,564.0,1.00%,F,T)



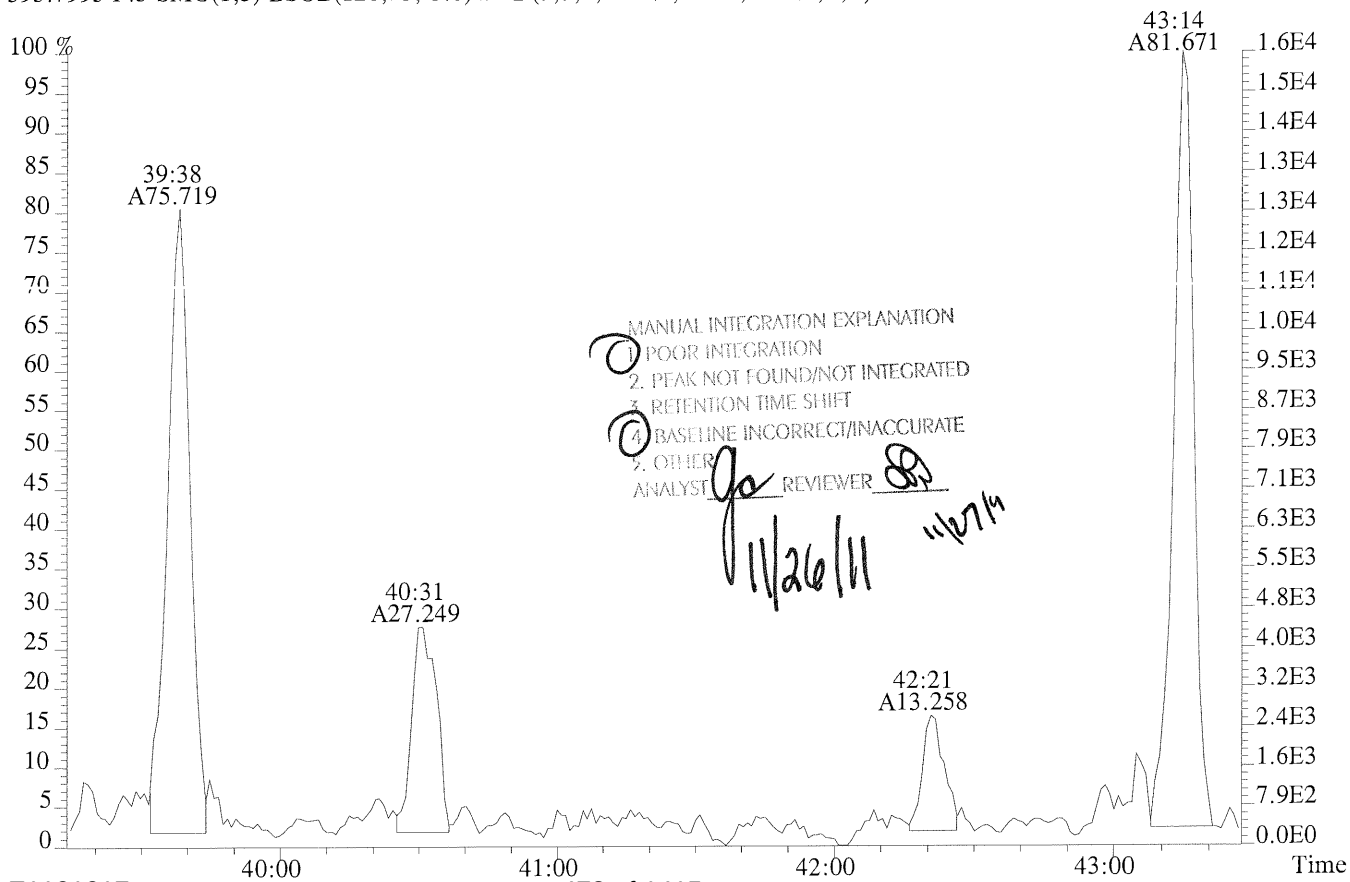
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142152 #1-396 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)

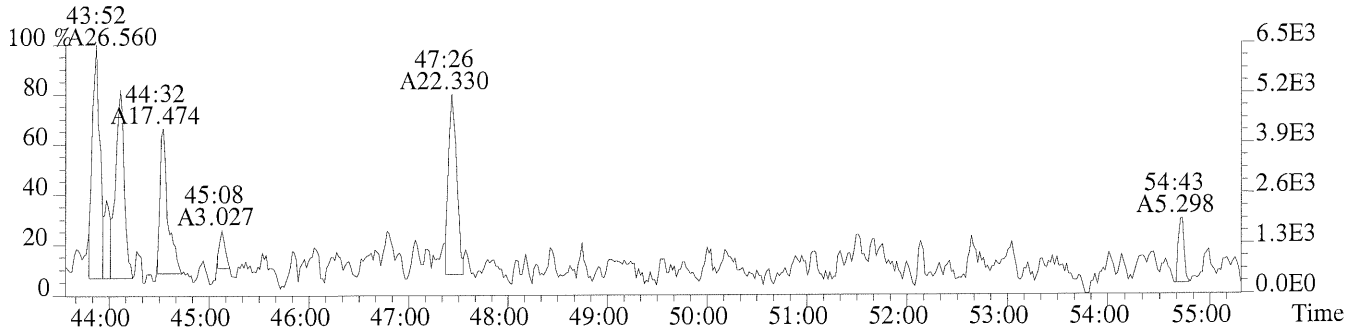


395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,600.0,1.00%,F,T)

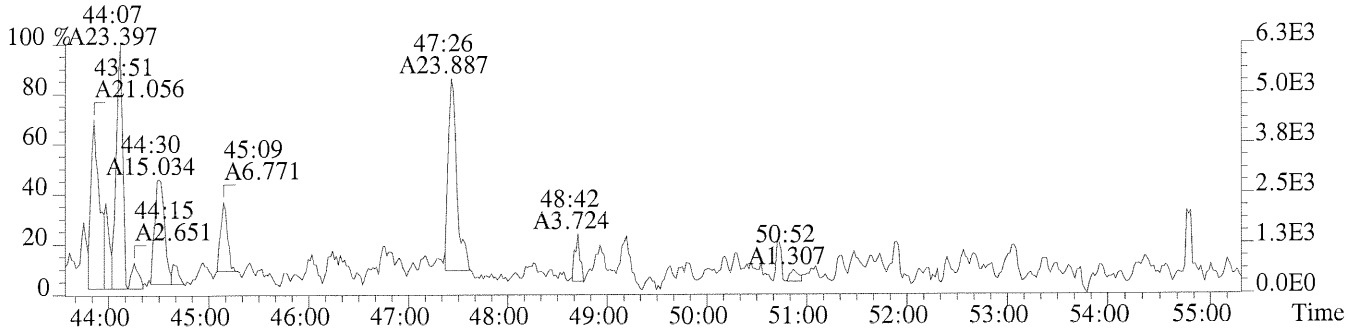


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Jo REVIEWER SB
11/26/11 11/27/11

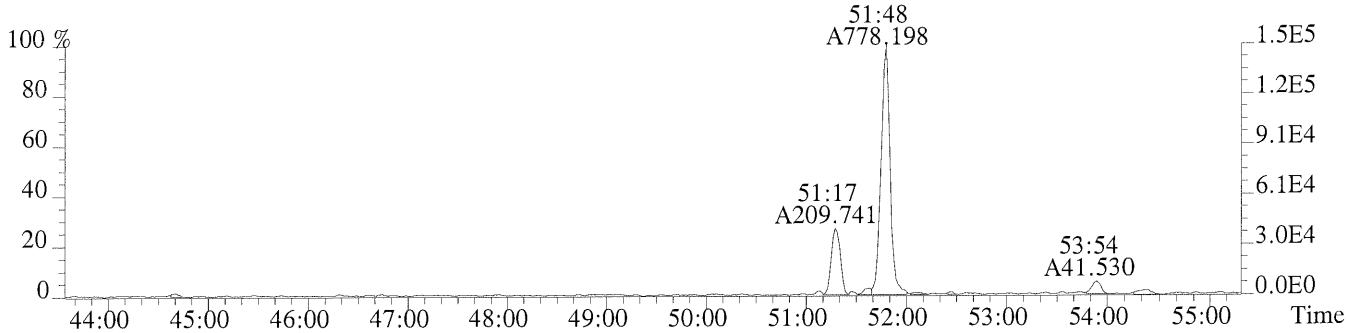
File:U142152 #1-582 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,856.0,1.00%,F,T)



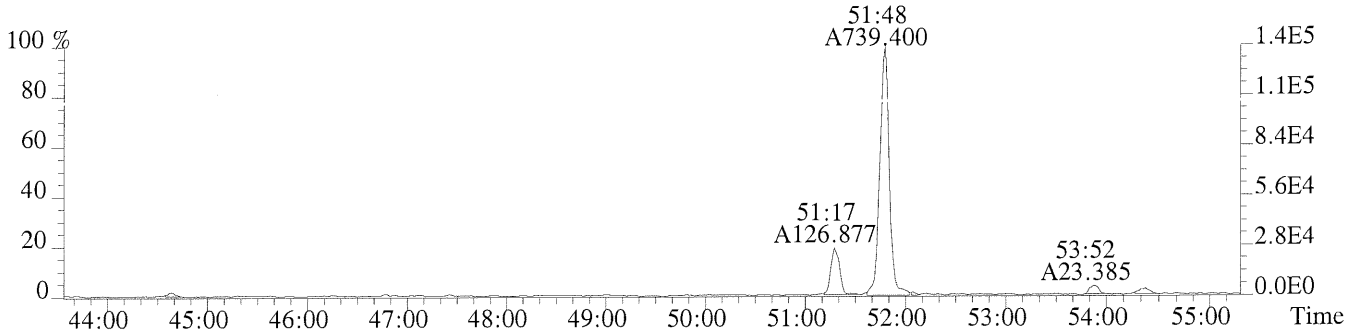
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,732.0,1.00%,F,T)



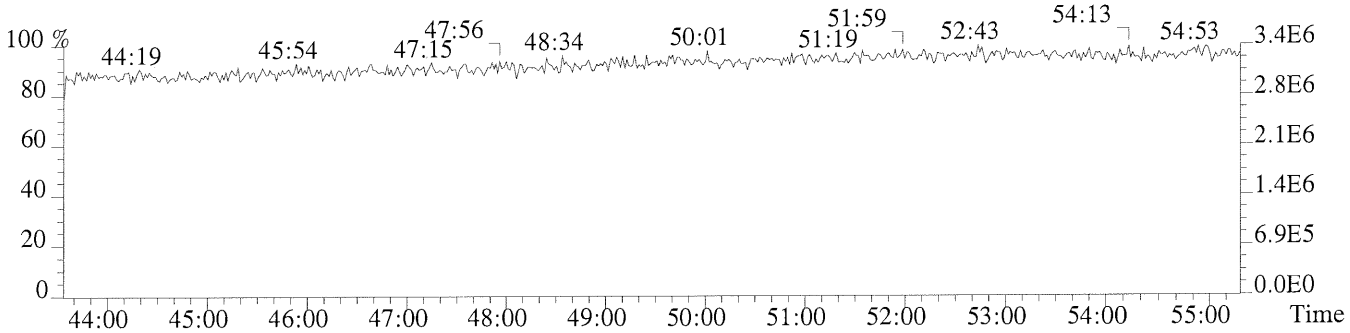
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)



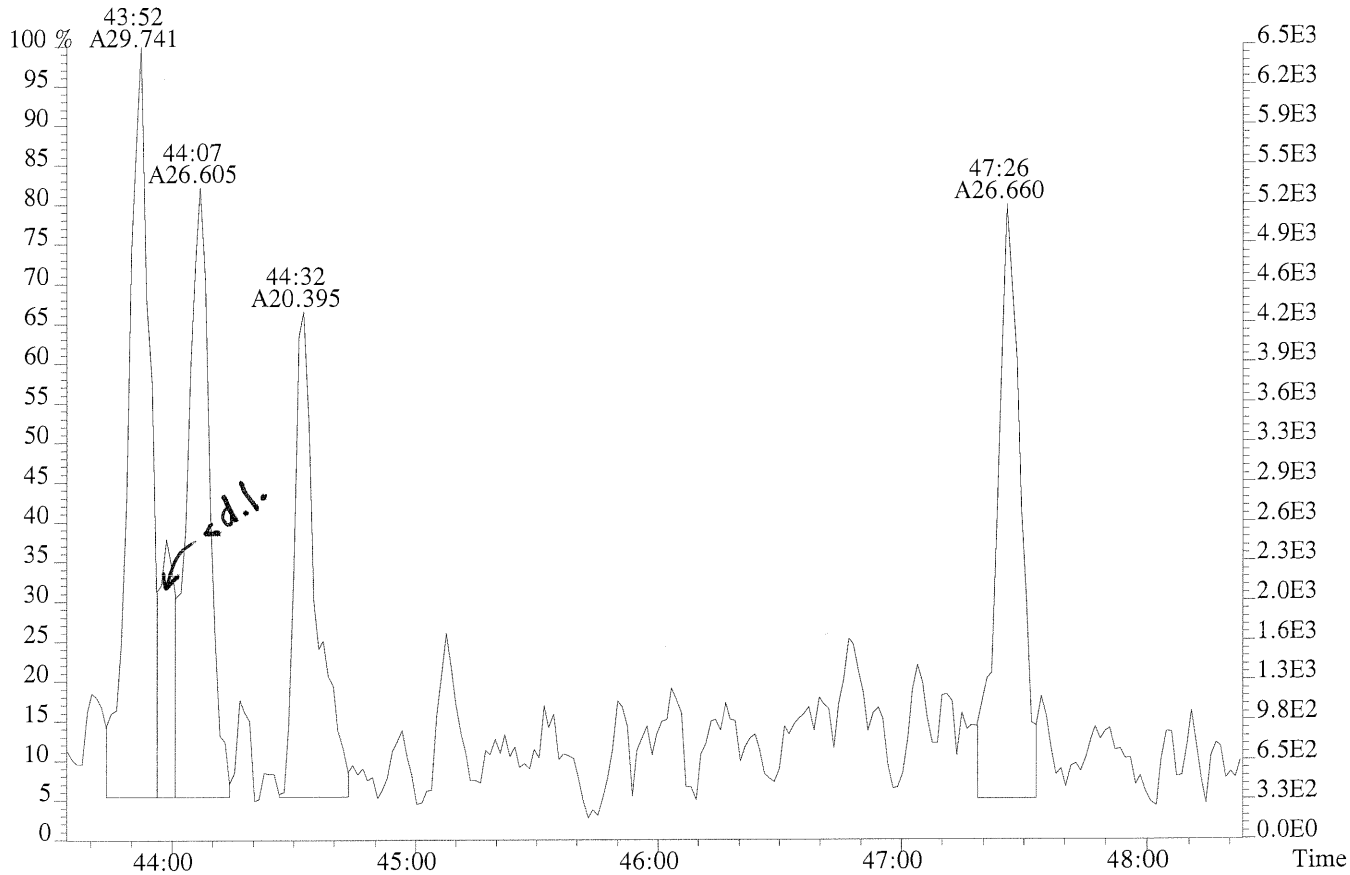
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,848.0,1.00%,F,T)



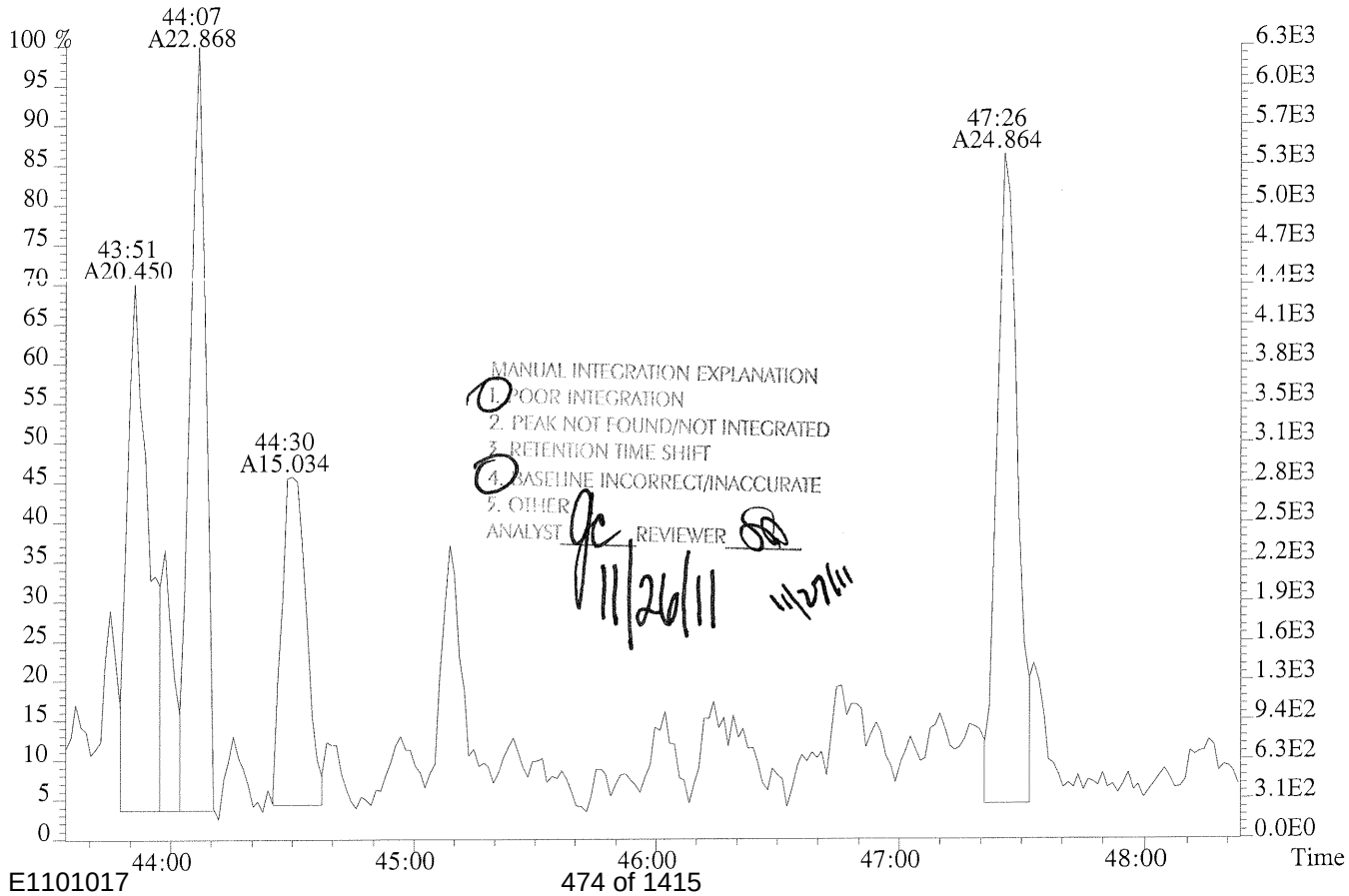
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142152 #1-582 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,856.0,1.00%,F,T)

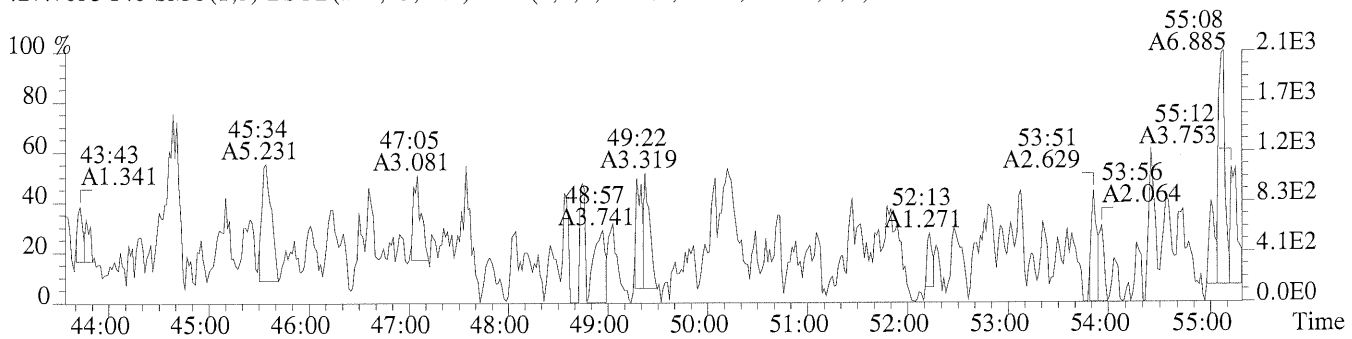


395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,732.0,1.00%,F,T)

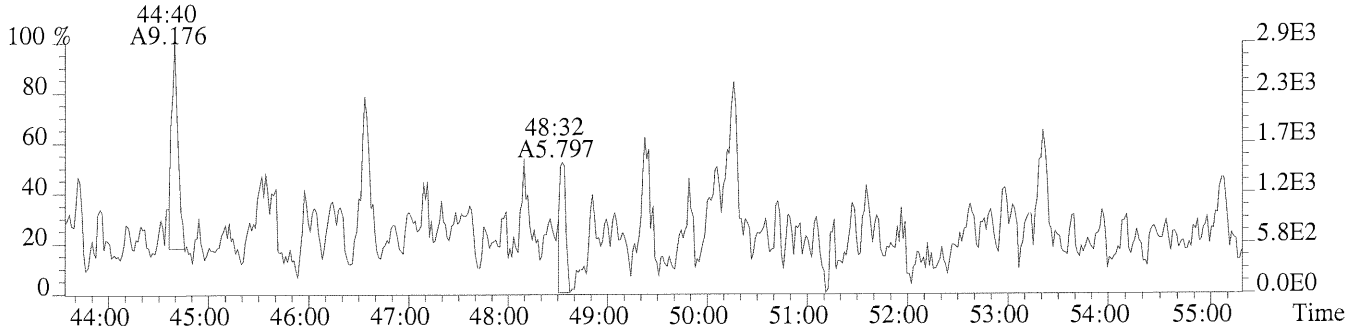


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST JC REVIEWER SB
11/26/11 11/27/11

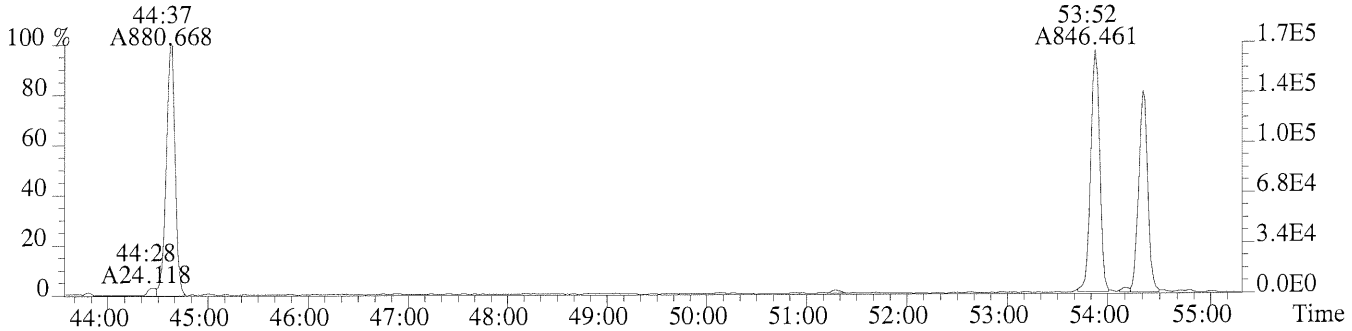
File:U142152 #1-582 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,464.0,1.00%,F,T)



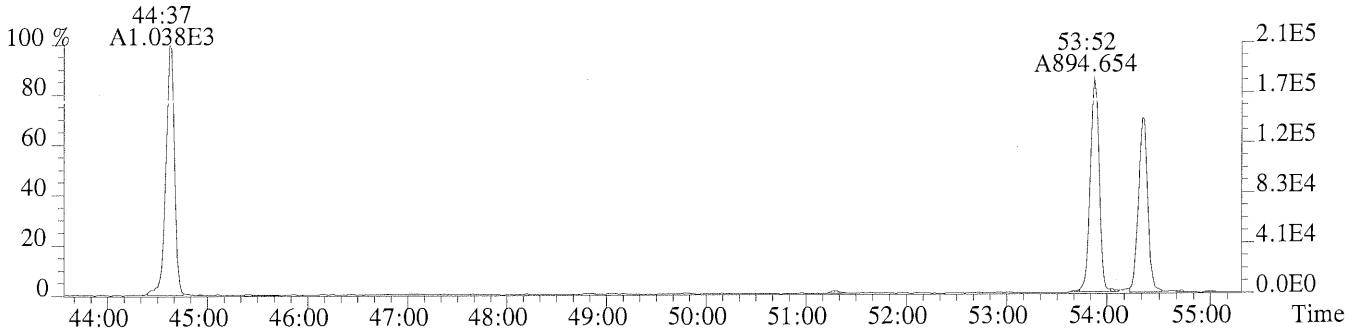
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,840.0,1.00%,F,T)



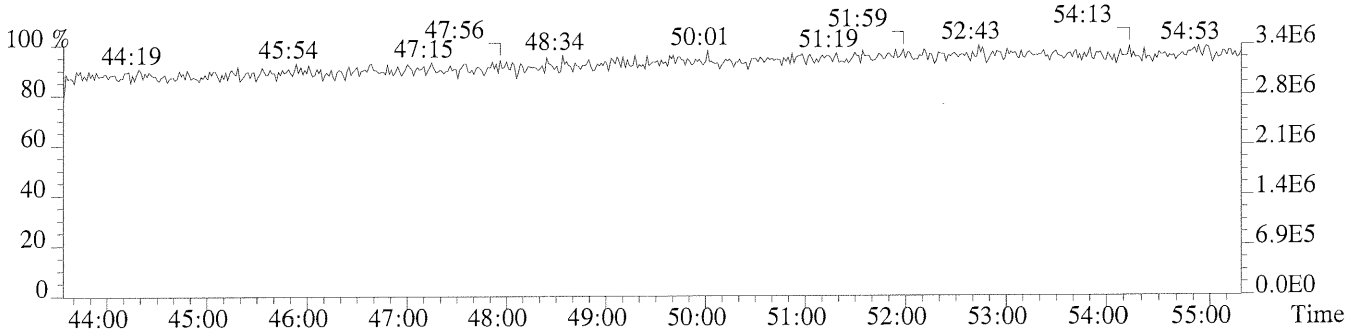
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,692.0,1.00%,F,T)



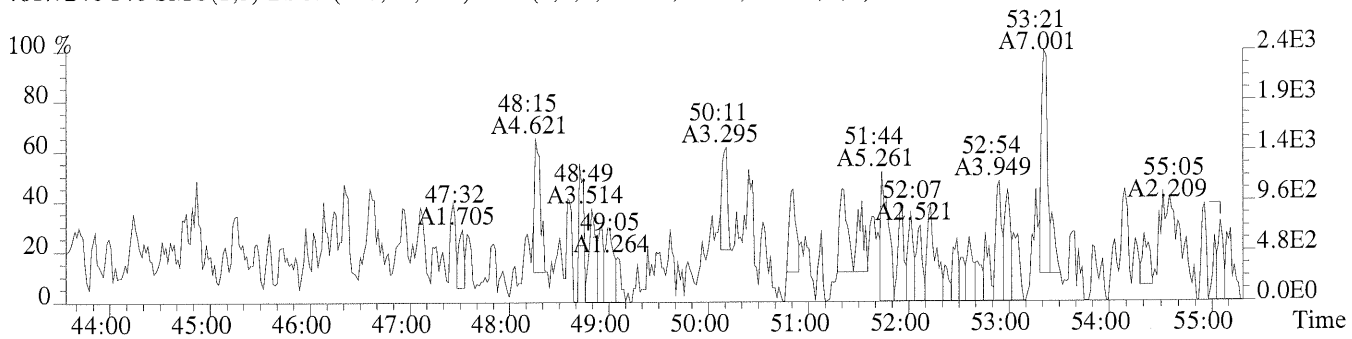
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



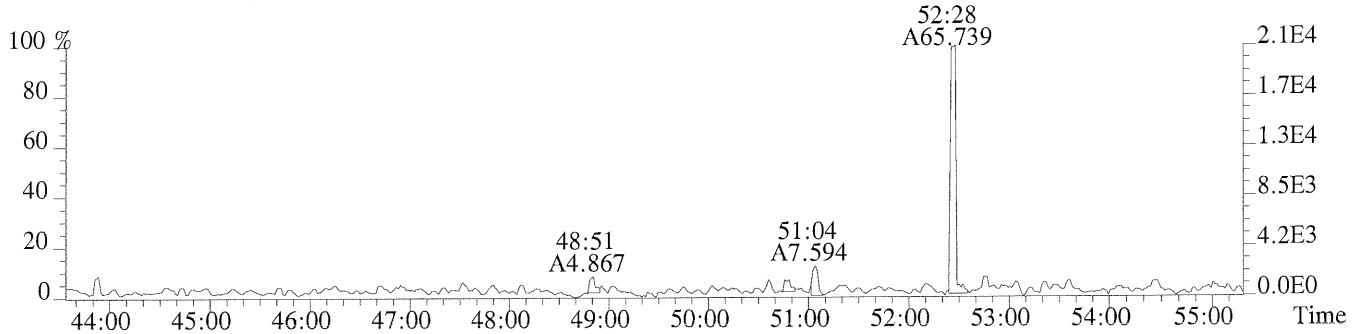
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



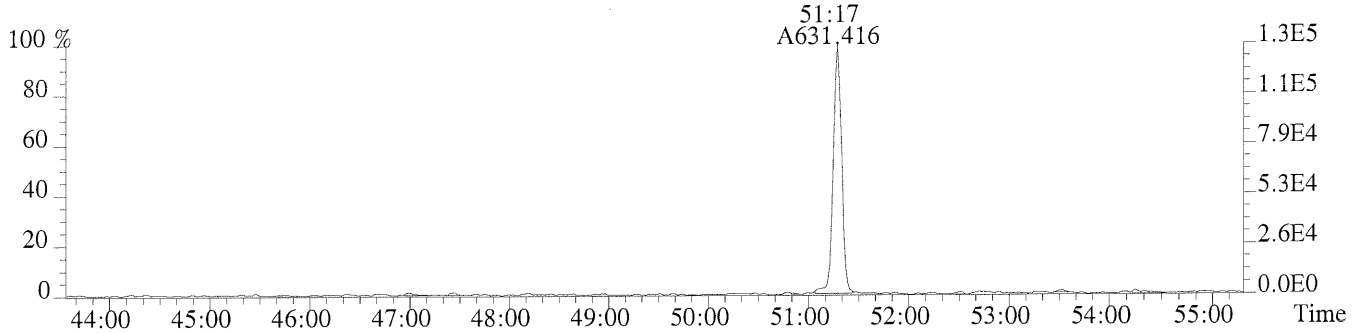
File:U142152 #1-582 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,564.0,1.00%,F,T)



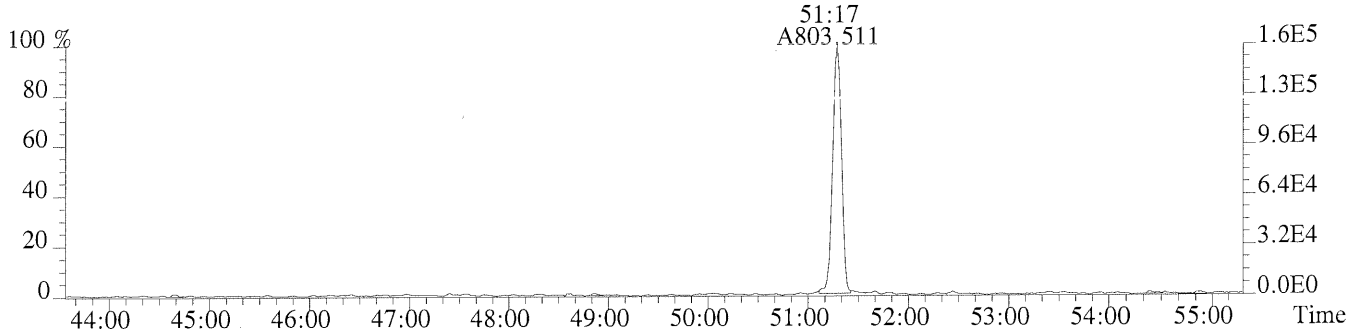
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,692.0,1.00%,F,T)



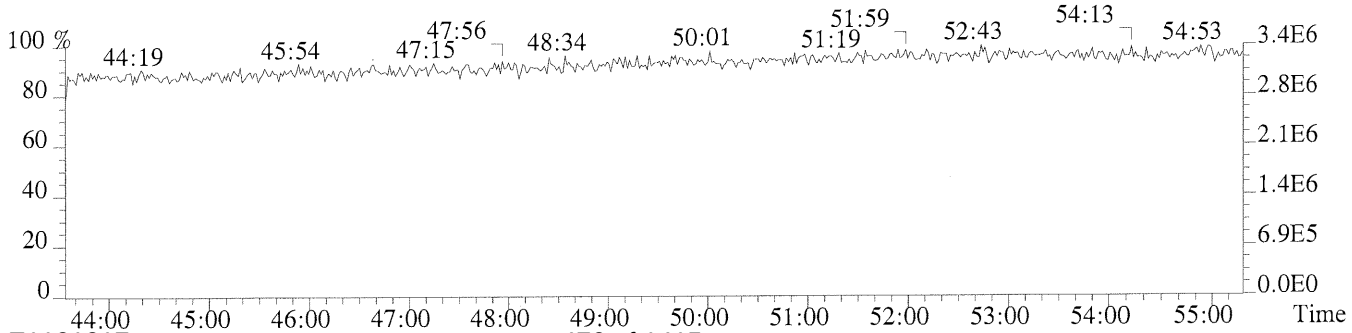
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



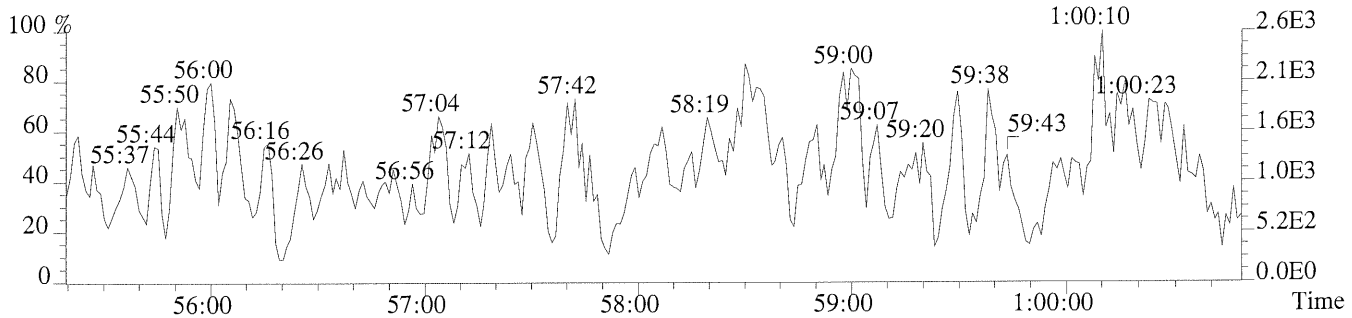
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



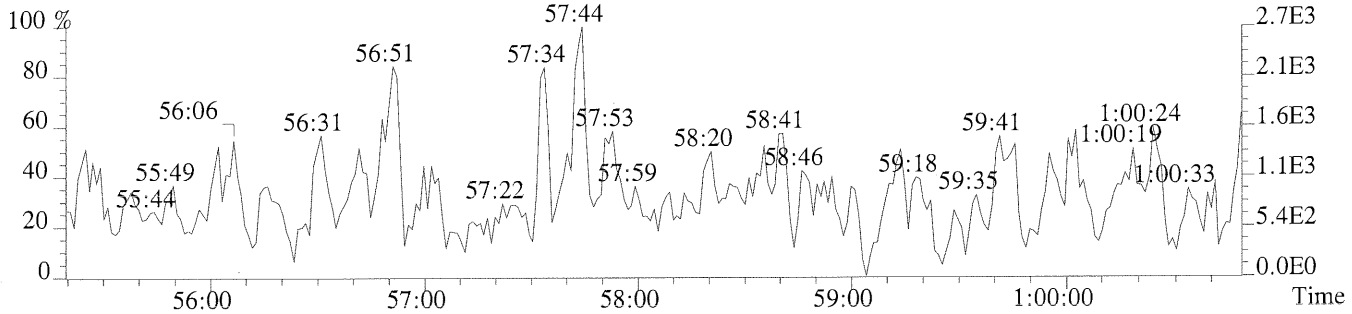
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



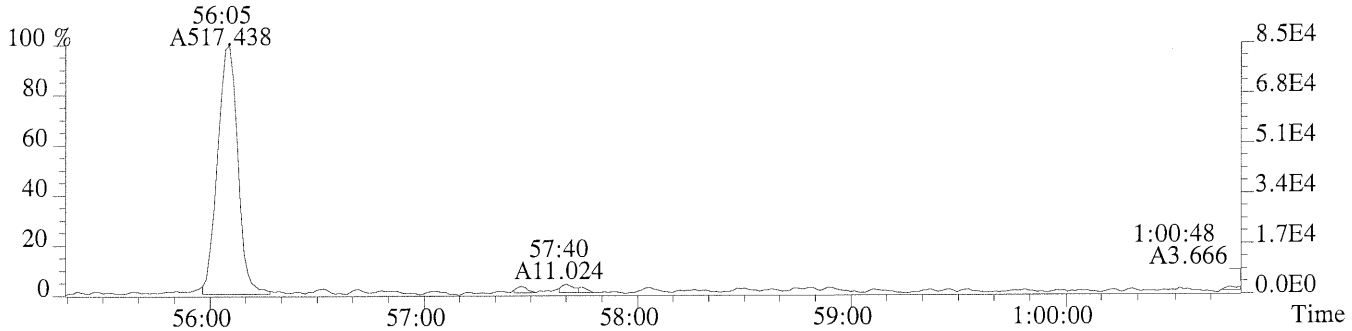
File:U142152 #1-310 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1344.0,1.00%,F,T)



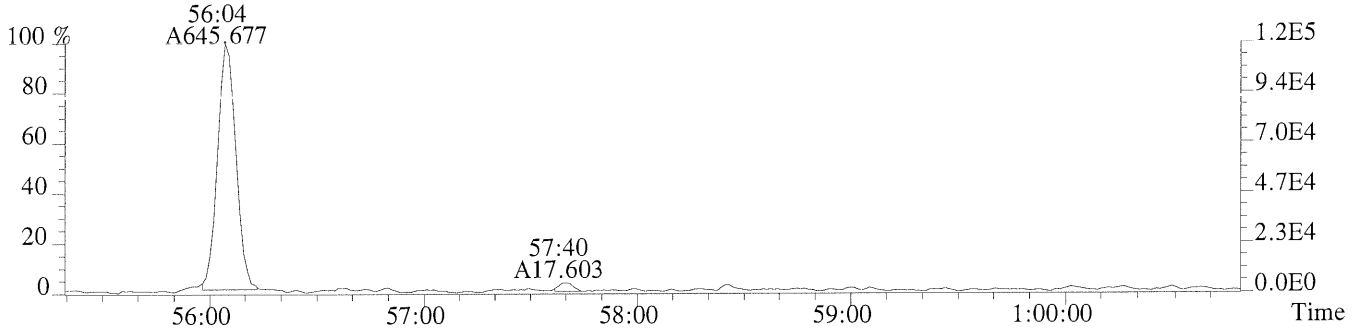
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



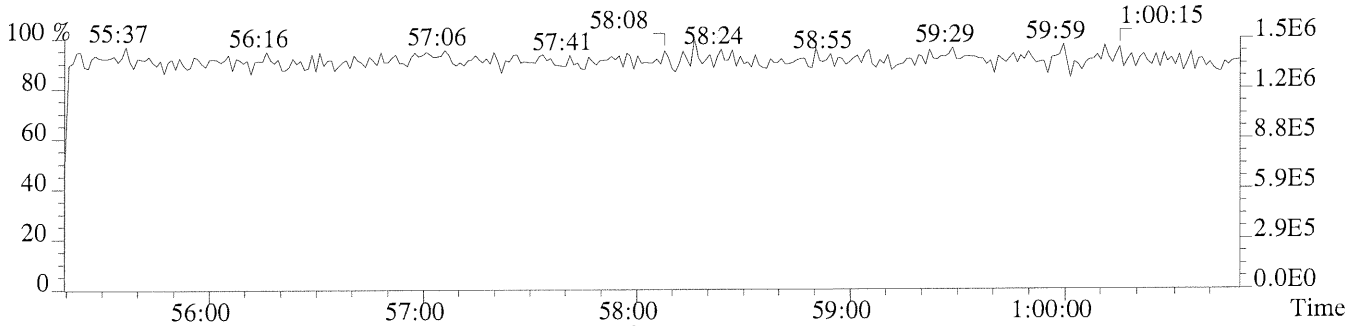
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)



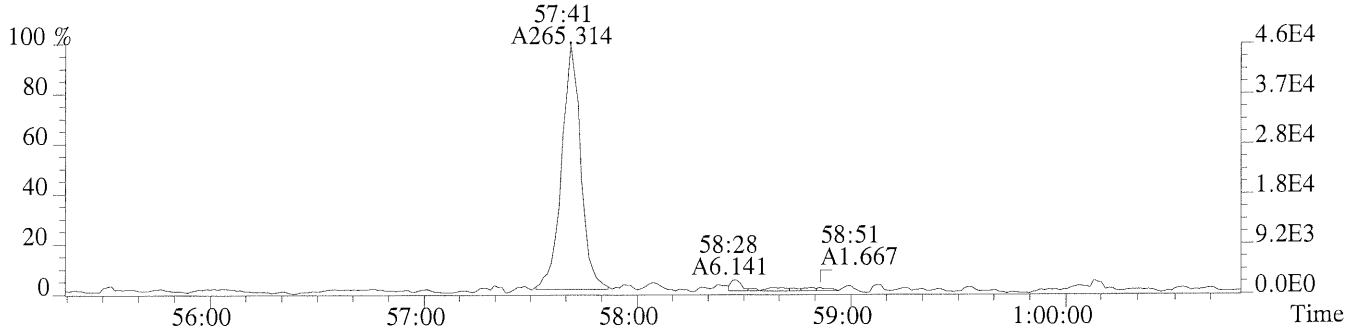
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1740.0,1.00%,F,T)



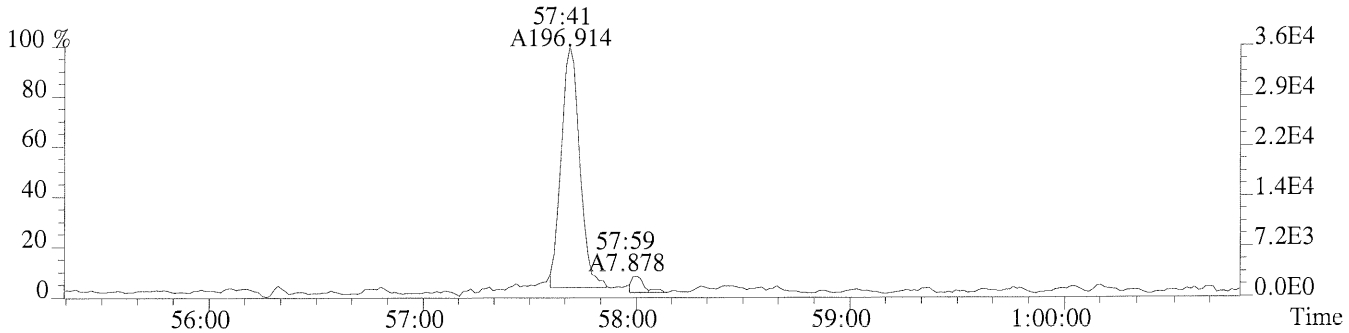
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



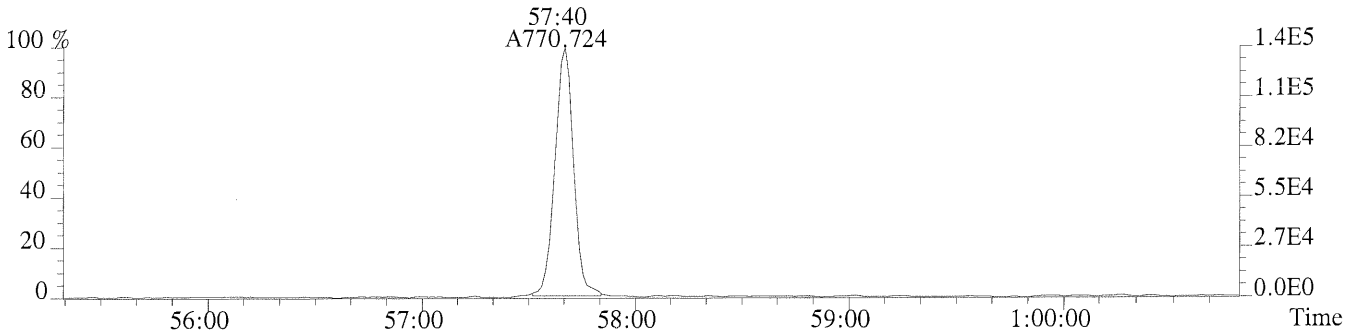
File:U142152 #1-310 Acq:21-NOV-2011 16:41:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-006 B4-IA1-PCBs
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



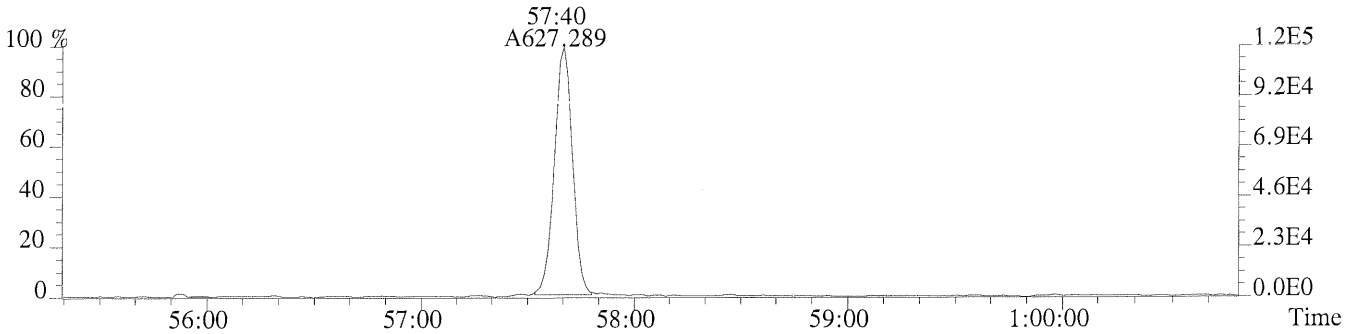
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



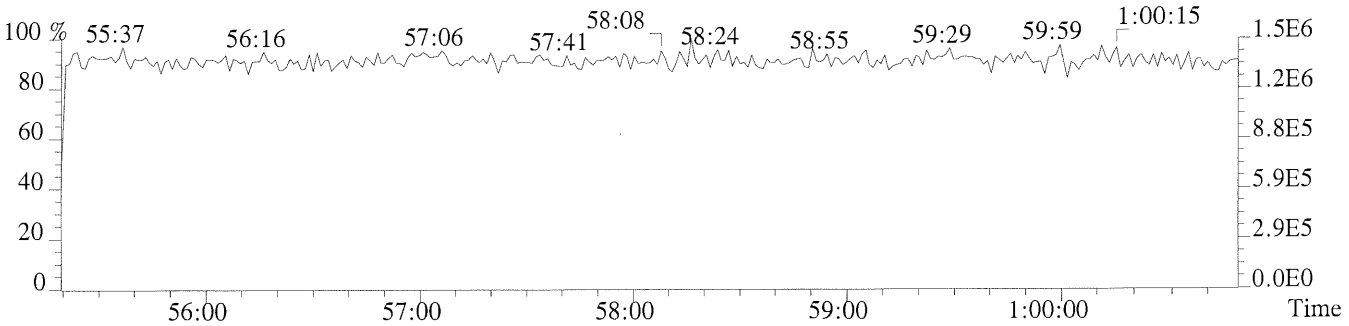
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,596.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,612.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4-IA2-PCBs

Run #13 Filename U142067 Samp: 1 Inj: 1 Acquired: 8-NOV-11 11:38:03
Processed: 12-NOV-11 12:40:08 Sample ID: E1101017-007

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	y	1.071
2	1	PCB-2	NotFnd	*	*	*	n	y	0.917
3	1	PCB-3	16:03	6.484e+03	1.979e+03	3.28	y	y	1.036
4	1	PCB-4	NotFnd	*	*	*	n	y	1.114
5	1	PCB-10	NotFnd	*	*	*	n	y	1.743
6	2	PCB-9	18:54	1.453e+03	1.024e+03	1.42	y	y	1.045
7	2	PCB-7	18:59	1.404e+03	9.326e+02	1.51	y	y	1.156
8	2	PCB-6	19:05	8.287e+03	5.527e+03	1.50	y	y	1.106
9	2	PCB-5	NotFnd	*	*	*	n	y	1.053
10	2	PCB-8	19:22	3.245e+04	1.980e+04	1.64	y	y	1.154
11	2	PCB-14	NotFnd	*	*	*	n	y	1.149
12	2	PCB-11	21:50	1.015e+05	6.387e+04	1.59	y	y	0.995
13	2	PCB-12/13	22:01	3.216e+03	2.008e+03	1.60	y	y	1.077
14	2	PCB-15	22:16	1.736e+04	1.075e+04	1.61	y	y	0.977
15	2	PCB-19	19:38	2.187e+03	2.088e+03	1.05	y	n	1.001
16	2	PCB-18/30	21:37	9.567e+03	1.024e+04	0.93	y	n	1.281
17	2	PCB-17	21:53	9.612e+03	9.299e+03	1.03	y	n	1.115
18	2	PCB-27	22:02	2.381e+03	2.394e+03	0.99	y	n	1.470
19	2	PCB-24	22:14	1.190e+04	1.157e+04	1.03	y	n	1.512
20	2	PCB-16	NotFnd	*	*	*	n	n	0.993
21	2	PCB-32	22:45	8.449e+03	8.194e+03	1.03	y	n	1.572
22	3	PCB-34	NotFnd	*	*	*	n	y	1.190
23	3	PCB-23	NotFnd	*	*	*	n	y	1.300
24	3	PCB-26/29	24:25	3.451e+03	3.183e+03	1.08	y	y	1.267
25	3	PCB-25	24:38	3.709e+03	3.778e+03	0.98	y	y	1.333
26	3	PCB-31	24:57	1.500e+04	1.525e+04	0.98	y	y	1.259
27	3	PCB-20/28	25:16	2.481e+04	2.540e+04	0.98	y	y	1.302
28	3	PCB-21/33	25:30	1.710e+04	1.778e+04	0.96	y	y	1.237
29	3	PCB-22	25:53	9.049e+03	1.002e+04	0.90	y	y	1.223
30	3	PCB-36	NotFnd	*	*	*	n	y	1.210
31	3	PCB-39	NotFnd	*	*	*	n	y	1.351
32	3	PCB-38	NotFnd	*	*	*	n	y	1.126
33	3	PCB-35	NotFnd	*	*	*	n	y	1.083
34	3	PCB-37	29:56	3.994e+03	4.017e+03	0.99	y	y	1.089
35	2	PCB-54	22:34	2.896e+01	4.364e+01	0.66	y	n	1.002
36	3	PCB-50/53	24:41	1.791e+03	2.153e+03	0.83	y	y	1.250
37	3	PCB-45/51	NotFnd	*	*	*	n	y	1.215
38	3	PCB-46	NotFnd	*	*	*	n	y	1.039
39	3	PCB-52	27:13	1.040e+04	1.182e+04	0.88	y	y	1.217
40	3	PCB-43/73	NotFnd	*	*	*	n	y	1.489
41	3	PCB-49/69	27:36	1.018e+04	1.346e+04	0.76	y	y	1.402
42	3	PCB-48	NotFnd	*	*	*	n	y	1.312
43	3	PCB-44/47/65	28:09	1.551e+04	1.986e+04	0.78	y	y	1.378
44	3	PCB-59/62/75	28:36	3.891e+03	5.049e+03	0.77	y	y	1.606
45	3	PCB-42	NotFnd	*	*	*	n	y	1.138
46	3	PCB-40/41/71	NotFnd	*	*	*	n	y	1.231
47	3	PCB-64	NotFnd	*	*	*	n	y	1.626
48	3	PCB-72	NotFnd	*	*	*	n	y	1.584
49	3	PCB-68	NotFnd	*	*	*	n	y	1.742
50	3	PCB-57	NotFnd	*	*	*	n	y	1.496

51	3	PCB-58	NotFnd	*	*	*	n	y	1.609
52	3	PCB-67	NotFnd	*	*	*	n	y	1.638
53	3	PCB-63	NotFnd	*	*	*	n	y	1.539
54	3	PCB-61/70/74/76	32:14	2.529e+03	2.718e+03	0.93	n	y	1.581
55	3	PCB-66	32:32	6.161e+03	7.677e+03	0.80	y	y	1.476
56	3	PCB-55	NotFnd	*	*	*	n	y	1.512
57	4	PCB-56	NotFnd	*	*	*	n	n	1.127
58	4	PCB-60	33:27	3.529e+03	5.074e+03	0.70	y	y	1.132
59	4	PCB-80	NotFnd	*	*	*	n	n	1.212
60	4	PCB-79	NotFnd	*	*	*	n	n	1.147
61	4	PCB-78	NotFnd	*	*	*	n	n	1.036
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	36:57	9.311e+01	1.460e+02	0.64	n	n	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	NotFnd	*	*	*	n	y	1.469
66	3	PCB-103	NotFnd	*	*	*	n	n	1.219
67	3	PCB-94	NotFnd	*	*	*	n	n	1.099
68	3	PCB-95	31:38	1.678e+03	1.176e+03	1.43	y	y	1.165
69	3	PCB-93/100	NotFnd	*	*	*	n	n	1.175
70	3	PCB-98/102	NotFnd	*	*	*	n	n	1.160
71	3	PCB-88/91	32:30	1.148e+02	5.253e+01	2.19	n	y	1.130
72	3	PCB-84	NotFnd	*	*	*	n	n	0.979
73	3	PCB-89	NotFnd	*	*	*	n	n	1.039
74	4	PCB-121	NotFnd	*	*	*	n	n	1.536
75	4	PCB-92	NotFnd	*	*	*	n	n	1.047
76	4	PCB-90/101/113	34:31	3.293e+03	2.157e+03	1.53	y	y	1.202
77	4	PCB-83/99	35:03	1.410e+03	9.442e+02	1.49	y	y	1.100
78	4	PCB-112	NotFnd	*	*	*	n	n	1.427
79	4	PCB-86/87/97/109/119/125	35:30	1.967e+03	1.172e+03	1.68	y	y	1.241
80	4	PCB-117	NotFnd	*	*	*	n	n	1.461
81	4	PCB-85/116	36:10	1.063e+03	6.018e+02	1.77	y	n	1.249
82	4	PCB-110/115	36:19	1.664e+03	1.011e+03	1.65	y	n	1.488
83	4	PCB-82	NotFnd	*	*	*	n	n	0.955
84	4	PCB-111	NotFnd	*	*	*	n	n	1.519
85	4	PCB-120	NotFnd	*	*	*	n	n	1.397
86	5	PCB-108/124	NotFnd	*	*	*	n	n	0.953
87	5	PCB-107	NotFnd	*	*	*	n	n	0.985
88	5	PCB-123	NotFnd	*	*	*	n	y	1.018
89	5	PCB-106	NotFnd	*	*	*	n	y	0.927
90	5	PCB-118	39:05	1.251e+03	8.289e+02	1.51	y	n	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	0.862
92	5	PCB-114	NotFnd	*	*	*	n	n	0.991
93	5	PCB-105	40:08	3.105e+02	1.960e+02	1.58	y	n	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	0.857
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.887
98	4	PCB-150	34:42	5.624e+01	3.248e+01	1.73	n	n	2.019
99	4	PCB-136	34:56	2.324e+02	1.683e+02	1.38	y	n	1.815
100	4	PCB-145	NotFnd	*	*	*	n	n	1.971
101	4	PCB-148	NotFnd	*	*	*	n	n	1.429
102	4	PCB-135/151	37:10	5.463e+02	3.658e+02	1.49	n	n	1.439
103	4	PCB-154	NotFnd	*	*	*	n	n	1.637
104	4	PCB-144	NotFnd	*	*	*	n	n	1.431
105	5	PCB-147/149	38:02	9.693e+02	7.374e+02	1.31	y	n	1.453
106	5	PCB-134	NotFnd	*	*	*	n	y	1.118
107	5	PCB-143	NotFnd	*	*	*	n	n	1.332

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.434
109	5	PCB-131	NotFnd	*	*	*	n	n	1.228
110	5	PCB-142	NotFnd	*	*	*	n	n	1.176
111	5	PCB-132	39:10	2.567e+02	1.709e+02	1.50	n	n	1.283
112	5	PCB-133	NotFnd	*	*	*	n	n	1.200
113	5	PCB-165	NotFnd	*	*	*	n	n	1.667
114	5	PCB-146	40:13	1.157e+02	1.099e+02	1.05	n	n	1.457
115	5	PCB-161	NotFnd	*	*	*	n	n	1.797
116	5	PCB-153/168	40:49	1.009e+03	8.107e+02	1.25	y	n	1.696
117	5	PCB-141	40:58	1.406e+02	1.077e+02	1.31	y	n	1.367
118	5	PCB-130	NotFnd	*	*	*	n	n	1.085
119	5	PCB-137	NotFnd	*	*	*	n	n	1.264
120	5	PCB-164	NotFnd	*	*	*	n	n	1.658
121	5	PCB-129/138/163	42:01	6.158e+02	4.944e+02	1.25	y	n	1.354
122	5	PCB-160	NotFnd	*	*	*	n	n	1.613
123	5	PCB-158	42:22	1.117e+02	8.219e+01	1.36	y	n	1.734
124	5	PCB-128/166	NotFnd	*	*	*	n	n	1.380
125	6	PCB-159	NotFnd	*	*	*	n	n	0.865
126	6	PCB-162	NotFnd	*	*	*	n	n	0.987
127	6	PCB-167	NotFnd	*	*	*	n	n	1.000
128	6	PCB-156/157	46:02	5.181e+01	4.366e+01	1.19	y	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	NotFnd	*	*	*	n	n	1.356
132	5	PCB-184	39:50	2.442e+02	2.389e+02	1.02	y	n	1.595
133	5	PCB-176	NotFnd	*	*	*	n	n	1.359
134	5	PCB-186	NotFnd	*	*	*	n	n	1.429
135	5	PCB-178	42:25	3.352e+01	2.584e+01	1.30	n	n	0.960
136	5	PCB-175	NotFnd	*	*	*	n	n	1.003
137	5	PCB-187	43:16	2.657e+02	1.467e+02	1.81	n	n	1.145
138	5	PCB-182	NotFnd	*	*	*	n	n	1.039
139	6	PCB-183	43:55	1.119e+02	1.141e+02	0.98	y	y	0.669
140	6	PCB-185	44:00	3.926e+01	4.822e+01	0.81	n	y	0.668
141	6	PCB-174	44:08	7.609e+01	8.809e+01	0.86	n	y	0.633
142	6	PCB-177	NotFnd	*	*	*	n	n	0.605
143	6	PCB-181	NotFnd	*	*	*	n	n	0.666
144	6	PCB-171/173	NotFnd	*	*	*	n	y	0.575
145	6	PCB-172	NotFnd	*	*	*	n	n	0.547
146	6	PCB-192	NotFnd	*	*	*	n	n	0.755
147	6	PCB-180/193	47:26	1.429e+02	1.388e+02	1.03	y	y	0.689
148	6	PCB-191	NotFnd	*	*	*	n	n	0.745
149	6	PCB-170	48:42	2.904e+01	3.549e+01	0.82	n	y	0.514
150	6	PCB-190	NotFnd	*	*	*	n	n	0.703
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	NotFnd	*	*	*	n	n	0.863
153	6	PCB-201	NotFnd	*	*	*	n	n	1.206
154	6	PCB-204	NotFnd	*	*	*	n	n	1.172
155	6	PCB-197	NotFnd	*	*	*	n	y	1.259
156	6	PCB-200	NotFnd	*	*	*	n	y	1.212
157	6	PCB-198/199	NotFnd	*	*	*	n	y	0.838
158	6	PCB-196	NotFnd	*	*	*	n	y	0.819
159	6	PCB-203	NotFnd	*	*	*	n	n	0.975
160	6	PCB-195	NotFnd	*	*	*	n	n	0.743
161	6	PCB-194	NotFnd	*	*	*	n	n	0.757
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	NotFnd	*	*	*	n	n	0.880
164	6	PCB-207	NotFnd	*	*	*	n	n	1.093

Filename U142067 Acquired: 8-NOV-11 11:38:03

165	7	PCB-206	NotFnd	*	*	*	n	n	0.931
166	7	PCB-209	57:39	2.957e+01	2.140e+01	1.38	n	n	0.894
167	1	PCB-1L	13:31	9.344e+03	2.653e+03	3.52	y	y	1.220
168	1	PCB-3L	16:07	1.515e+04	4.632e+03	3.27	y	y	1.173
169	1	PCB-4L	16:18	3.767e+03	2.385e+03	1.58	y	y	0.803
170	2	PCB-15L	22:16	7.776e+03	4.933e+03	1.58	y	y	0.962
171	2	PCB-19L	19:37	2.189e+03	1.980e+03	1.11	y	n	0.636
172	3	PCB-37L	29:54	3.579e+03	3.048e+03	1.17	y	y	1.144
173	2	PCB-54L	22:31	1.334e+03	1.690e+03	0.79	y	n	1.140
174	4	PCB-81L	36:26	2.224e+03	2.677e+03	0.83	y	n	0.947
175	4	PCB-77L	36:57	2.430e+03	2.965e+03	0.82	y	n	0.949
176	3	PCB-104L	28:32	2.709e+03	1.718e+03	1.58	y	y	1.397
177	5	PCB-123L	38:46	3.125e+03	1.951e+03	1.60	y	n	1.029
178	5	PCB-118L	39:04	3.607e+03	2.279e+03	1.58	y	n	1.077
179	5	PCB-114L	39:32	4.444e+03	2.757e+03	1.61	y	n	1.075
180	5	PCB-105L	40:07	3.037e+03	1.846e+03	1.65	y	n	1.013
181	5	PCB-126L	43:04	5.343e+03	3.288e+03	1.62	y	n	0.898
182	4	PCB-155L	34:16	2.614e+03	1.979e+03	1.32	y	y	1.637
183	6	PCB-167L	44:54	4.991e+03	3.810e+03	1.31	y	y	0.882
184	6	PCB-156/157L	46:02	9.080e+03	7.069e+03	1.28	y	n	0.818
185	6	PCB-169L	49:16	4.326e+03	3.443e+03	1.26	y	y	0.716
186	5	PCB-188L	39:30	2.946e+03	2.742e+03	1.07	y	n	2.358
187	6	PCB-189L	51:46	3.594e+03	3.361e+03	1.07	y	n	1.307
188	6	PCB-202L	44:40	3.087e+03	3.379e+03	0.91	y	n	1.804
189	6	PCB-205L	54:19	2.590e+03	2.754e+03	0.94	y	n	1.363
190	6	PCB-208L	51:17	2.142e+03	2.494e+03	0.86	y	n	1.337
191	7	PCB-206L	56:04	2.254e+03	2.962e+03	0.76	y	n	0.998
192	7	PCB-209L	57:39	3.188e+03	2.564e+03	1.24	y	y	1.563
193	3	PCB-28L	25:13	3.697e+03	3.606e+03	1.03	y	y	1.387
194	4	PCB-111L	36:59	3.531e+03	2.178e+03	1.62	y	n	1.238
195	5	PCB-178L	42:24	2.424e+03	2.382e+03	1.02	y	n	0.953
196	2	PCB-9L	18:54	9.011e+03	5.571e+03	1.62	y	n	-
197	3	PCB-52L	27:10	2.903e+03	3.459e+03	0.84	y	y	-
198	4	PCB-101L	34:30	3.801e+03	2.398e+03	1.59	y	y	-
199	5	PCB-138L	41:59	3.496e+03	2.805e+03	1.25	y	n	-
200	6	PCB-194L	53:51	2.736e+03	2.885e+03	0.95	y	n	-

-- Sample Calculation--

$$\text{PCB-209} = \frac{(2.957e{+}01 + 2.140e{+}01) \times 10000\ \text{pg} \times 1}{(3.188e{+}03 + 2.564e{+}03) \times (0.5\ \text{mL}) \times (1\text{L} / 1000\ \text{mL}) \times 0.8938} = 180\ \text{pg}$$

11/19/11

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
Office(713)266-1599. Fax(713)266-0130

sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4CS-IA2-PCBs

Run #4 Filename U142067#1 Samp: 1 Inj: 1 Acquired: 8-NOV-11 11:38:03
Processed: 16-NOV-11 17:44:23 Sample ID: E1101017-007

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	19:21	5.756e+02	3.869e+02	1.49	yes	1.101	no
2	70L	PCB-70L	32:30	1.003e+03	1.158e+03	0.87	yes	1.584	yes
3	15L	PCB-15L	22:16	7.776e+03	4.933e+03	1.58	yes		yes
4	81L	PCB-81L	36:26	2.224e+03	2.677e+03	0.83	yes		no

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	1.57e+05	2.31e+03	6.8e+01	1.08e+05	3.28e+03	3.3e+01
2	PCB-70L	1.06e+05	3.66e+03	2.9e+01	1.20e+05	2.79e+03	4.3e+01
3	PCB-15L	9.73e+05	2.31e+03	4.2e+02	6.58e+05	3.28e+03	2.0e+02
4	PCB-81L	2.32e+05	3.53e+03	6.6e+01	2.85e+05	4.31e+03	6.6e+01

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(5.76e+02 + 3.87e+02) \times 10000\ \text{pg}}{(7.78e+03 + 4.93e+03) \times 10\ \text{L}} \times \frac{1}{1.101} = 688\ \text{pg}$$

~~pg/L~~

11/19/11

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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4-IA2-PCBs

Run #13 Filename U142067#1 Samp: 1 Inj: 1 Acquired: 8-NOV-11 11:38:03

Processed: 12-NOV-11 12:40:08 LAB. ID: E1101017-007

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	1.11e+04	*	*	4.29e+03	*
2	PCB-2	*	1.11e+04	*	*	4.29e+03	*
3	PCB-3	2.63e+05	1.11e+04	2.4e+01	9.15e+04	4.29e+03	2.1e+01
4	PCB-4	*	1.54e+03	*	*	2.57e+04	*
5	PCB-10	*	1.54e+03	*	*	2.57e+04	*
6	PCB-9	4.39e+05	3.49e+03	1.3e+02	3.09e+05	3.03e+04	1.0e+01
7	PCB-7	4.66e+05	3.49e+03	1.3e+02	3.08e+05	3.03e+04	1.0e+01
8	PCB-6	2.73e+06	3.49e+03	7.8e+02	1.78e+06	3.03e+04	5.9e+01
9	PCB-5	*	3.49e+03	*	*	3.03e+04	*
10	PCB-8	8.44e+06	3.49e+03	2.4e+03	5.19e+06	3.03e+04	1.7e+02
11	PCB-14	*	3.49e+03	*	*	3.03e+04	*
12	PCB-11	2.51e+07	3.49e+03	7.2e+03	1.58e+07	3.03e+04	5.2e+02
13	PCB-12/13	6.16e+05	3.49e+03	1.8e+02	3.92e+05	3.03e+04	1.3e+01
14	PCB-15	2.34e+06	3.49e+03	6.7e+02	1.45e+06	3.03e+04	4.8e+01
15	PCB-19	6.48e+05	3.40e+04	1.9e+01	6.08e+05	1.60e+03	3.8e+02
16	PCB-18/30	7.49e+05	3.40e+04	2.2e+01	7.44e+05	1.60e+03	4.6e+02
17	PCB-17	2.51e+06	3.40e+04	7.4e+01	2.39e+06	1.60e+03	1.5e+03
18	PCB-27	5.30e+05	3.40e+04	1.6e+01	5.34e+05	1.60e+03	3.3e+02
19	PCB-24	1.91e+06	3.40e+04	5.6e+01	1.81e+06	1.60e+03	1.1e+03
20	PCB-16	*	3.40e+04	*	*	1.60e+03	*
21	PCB-32	8.80e+05	3.40e+04	2.6e+01	8.27e+05	1.60e+03	5.2e+02
22	PCB-34	*	2.60e+04	*	*	2.19e+04	*
23	PCB-23	*	2.60e+04	*	*	2.19e+04	*
24	PCB-26/29	3.07e+05	2.60e+04	1.2e+01	3.08e+05	2.19e+04	1.4e+01
25	PCB-25	2.76e+05	2.60e+04	1.1e+01	2.52e+05	2.19e+04	1.2e+01
26	PCB-31	1.20e+06	2.60e+04	4.6e+01	1.20e+06	2.19e+04	5.5e+01
27	PCB-20/28	1.47e+06	2.60e+04	5.7e+01	1.44e+06	2.19e+04	6.6e+01
28	PCB-21/33	1.11e+06	2.60e+04	4.3e+01	1.11e+06	2.19e+04	5.1e+01
29	PCB-22	6.73e+05	2.60e+04	2.6e+01	7.24e+05	2.19e+04	3.3e+01
30	PCB-36	*	2.60e+04	*	*	2.19e+04	*
31	PCB-39	*	2.60e+04	*	*	2.19e+04	*
32	PCB-38	*	2.60e+04	*	*	2.19e+04	*
33	PCB-35	*	2.60e+04	*	*	2.19e+04	*
34	PCB-37	2.22e+05	2.60e+04	8.5e+00	2.11e+05	2.19e+04	9.6e+00
35	PCB-54	4.23e+03	1.07e+03	3.9e+00	6.58e+03	1.16e+03	5.7e+00
36	PCB-50/53	1.52e+05	2.51e+03	6.1e+01	1.91e+05	2.14e+03	8.9e+01
37	PCB-45/51	*	2.51e+03	*	*	2.14e+03	*
38	PCB-46	*	2.51e+03	*	*	2.14e+03	*
39	PCB-52	4.88e+05	2.51e+03	1.9e+02	6.07e+05	2.14e+03	2.8e+02
40	PCB-43/73	*	2.51e+03	*	*	2.14e+03	*
41	PCB-49/69	6.02e+05	2.51e+03	2.4e+02	7.63e+05	2.14e+03	3.6e+02
42	PCB-48	*	2.51e+03	*	*	2.14e+03	*
43	PCB-44/47/65	5.94e+05	2.51e+03	2.4e+02	7.88e+05	2.14e+03	3.7e+02
44	PCB-59/62/75	3.62e+05	2.51e+03	1.4e+02	4.64e+05	2.14e+03	2.2e+02
45	PCB-42	*	2.51e+03	*	*	2.14e+03	*
46	PCB-40/41/71	*	2.51e+03	*	*	2.14e+03	*
47	PCB-64	*	2.51e+03	*	*	2.14e+03	*

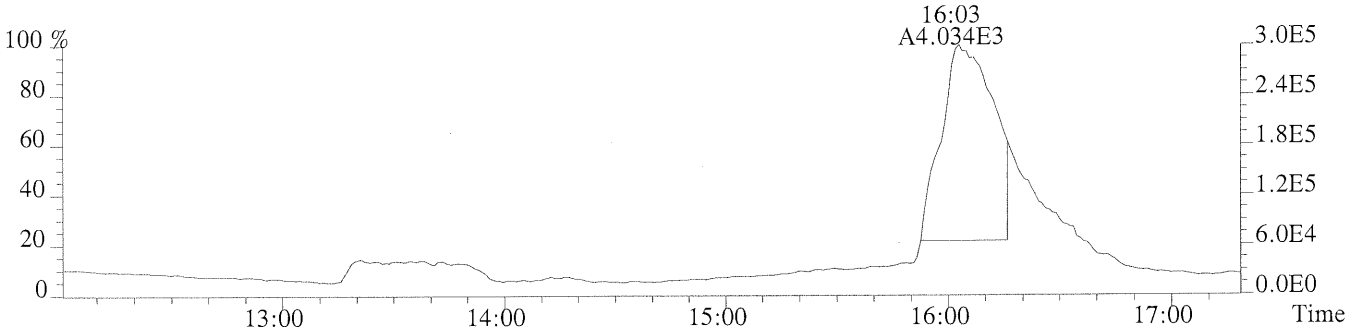
48	PCB-72	*	2.51e+03	*	*	2.14e+03	*
49	PCB-68	*	2.51e+03	*	*	2.14e+03	*
50	PCB-57	*	2.51e+03	*	*	2.14e+03	*
51	PCB-58	*	2.51e+03	*	*	2.14e+03	*
52	PCB-67	*	2.51e+03	*	*	2.14e+03	*
53	PCB-63	*	2.51e+03	*	*	2.14e+03	*
54	PCB-61/70/74/76	2.38e+05	2.51e+03	9.5e+01	2.80e+05	2.14e+03	1.3e+02
55	PCB-66	7.41e+05	2.51e+03	3.0e+02	9.01e+05	2.14e+03	4.2e+02
56	PCB-55	*	2.51e+03	*	*	2.14e+03	*
57	PCB-56	*	3.80e+03	*	*	4.15e+03	*
58	PCB-60	3.05e+05	3.80e+03	8.0e+01	4.14e+05	4.15e+03	1.0e+02
59	PCB-80	*	3.80e+03	*	*	4.15e+03	*
60	PCB-79	*	3.80e+03	*	*	4.15e+03	*
61	PCB-78	*	3.80e+03	*	*	4.15e+03	*
62	PCB-81	*	3.80e+03	*	*	4.15e+03	*
63	PCB-77	1.82e+04	3.80e+03	4.8e+00	2.72e+04	4.15e+03	6.6e+00
64	PCB-104	*	8.32e+02	*	*	9.52e+02	*
65	PCB-96	*	8.32e+02	*	*	9.52e+02	*
66	PCB-103	*	8.32e+02	*	*	9.52e+02	*
67	PCB-94	*	8.32e+02	*	*	9.52e+02	*
68	PCB-95	1.47e+05	8.32e+02	1.8e+02	8.19e+04	9.52e+02	8.6e+01
69	PCB-93/100	*	8.32e+02	*	*	9.52e+02	*
70	PCB-98/102	*	8.32e+02	*	*	9.52e+02	*
71	PCB-88/91	1.52e+04	8.32e+02	1.8e+01	1.16e+04	9.52e+02	1.2e+01
72	PCB-84	*	8.32e+02	*	*	9.52e+02	*
73	PCB-89	*	8.32e+02	*	*	9.52e+02	*
74	PCB-121	*	1.63e+04	*	*	1.22e+04	*
75	PCB-92	*	1.63e+04	*	*	1.22e+04	*
76	PCB-90/101/113	2.62e+05	1.63e+04	1.6e+01	1.82e+05	1.22e+04	1.5e+01
77	PCB-83/99	1.31e+05	1.63e+04	8.0e+00	8.32e+04	1.22e+04	6.8e+00
78	PCB-112	*	1.63e+04	*	*	1.22e+04	*
79	CB-86/87/97/109/119/125	1.33e+05	1.63e+04	8.1e+00	7.33e+04	1.22e+04	6.0e+00
80	PCB-117	*	1.63e+04	*	*	1.22e+04	*
81	PCB-85/116	1.08e+05	1.63e+04	6.6e+00	6.46e+04	1.22e+04	5.3e+00
82	PCB-110/115	2.48e+05	1.63e+04	1.5e+01	1.44e+05	1.22e+04	1.2e+01
83	PCB-82	*	1.63e+04	*	*	1.22e+04	*
84	PCB-111	*	1.63e+04	*	*	1.22e+04	*
85	PCB-120	*	1.63e+04	*	*	1.22e+04	*
86	PCB-108/124	*	3.96e+03	*	*	3.17e+03	*
87	PCB-107	*	3.96e+03	*	*	3.17e+03	*
88	PCB-123	*	3.96e+03	*	*	3.17e+03	*
89	PCB-106	*	3.96e+03	*	*	3.17e+03	*
90	PCB-118	1.71e+05	3.96e+03	4.3e+01	1.10e+05	3.17e+03	3.5e+01
91	PCB-122	*	3.96e+03	*	*	3.17e+03	*
92	PCB-114	*	3.96e+03	*	*	3.17e+03	*
93	PCB-105	4.23e+04	3.96e+03	1.1e+01	2.77e+04	3.17e+03	8.7e+00
94	PCB-127	*	3.96e+03	*	*	3.17e+03	*
95	PCB-126	*	3.96e+03	*	*	3.17e+03	*
96	PCB-155	*	1.22e+03	*	*	1.49e+03	*
97	PCB-152	*	1.22e+03	*	*	1.49e+03	*
98	PCB-150	9.22e+03	1.22e+03	7.6e+00	6.59e+03	1.49e+03	4.4e+00
99	PCB-136	3.21e+04	1.22e+03	2.6e+01	2.23e+04	1.49e+03	1.5e+01
100	PCB-145	*	1.22e+03	*	*	1.49e+03	*
101	PCB-148	*	1.22e+03	*	*	1.49e+03	*
102	PCB-135/151	5.55e+04	1.22e+03	4.6e+01	4.53e+04	1.49e+03	3.0e+01
103	PCB-154	*	1.22e+03	*	*	1.49e+03	*
104	PCB-144	*	1.22e+03	*	*	1.49e+03	*

105	PCB-147/149	9.72e+04	1.40e+03	6.9e+01	7.42e+04	2.15e+03	3.5e+01
106	PCB-134	*	1.40e+03	*	*	2.15e+03	*
107	PCB-143	*	1.40e+03	*	*	2.15e+03	*
108	PCB-139/140	*	1.40e+03	*	*	2.15e+03	*
109	PCB-131	*	1.40e+03	*	*	2.15e+03	*
110	PCB-142	*	1.40e+03	*	*	2.15e+03	*
111	PCB-132	2.91e+04	1.40e+03	2.1e+01	2.67e+04	2.15e+03	1.2e+01
112	PCB-133	*	1.40e+03	*	*	2.15e+03	*
113	PCB-165	*	1.40e+03	*	*	2.15e+03	*
114	PCB-146	2.05e+04	1.40e+03	1.5e+01	1.48e+04	2.15e+03	6.9e+00
115	PCB-161	*	1.40e+03	*	*	2.15e+03	*
116	PCB-153/168	1.21e+05	1.40e+03	8.6e+01	8.96e+04	2.15e+03	4.2e+01
117	PCB-141	2.05e+04	1.40e+03	1.5e+01	1.50e+04	2.15e+03	7.0e+00
118	PCB-130	*	1.40e+03	*	*	2.15e+03	*
119	PCB-137	*	1.40e+03	*	*	2.15e+03	*
120	PCB-164	*	1.40e+03	*	*	2.15e+03	*
121	PCB-129/138/163	6.71e+04	1.40e+03	4.8e+01	5.35e+04	2.15e+03	2.5e+01
122	PCB-160	*	1.40e+03	*	*	2.15e+03	*
123	PCB-158	1.10e+04	1.40e+03	7.8e+00	1.45e+04	2.15e+03	6.7e+00
124	PCB-128/166	*	1.40e+03	*	*	2.15e+03	*
125	PCB-159	*	1.39e+03	*	*	1.12e+03	*
126	PCB-162	*	1.39e+03	*	*	1.12e+03	*
127	PCB-167	*	1.39e+03	*	*	1.12e+03	*
128	PCB-156/157	9.03e+03	1.39e+03	6.5e+00	7.72e+03	1.12e+03	6.9e+00
129	PCB-169	*	1.39e+03	*	*	1.12e+03	*
130							
131	PCB-188	*	1.38e+03	*	*	8.00e+02	*
132	PCB-179	*	1.38e+03	*	*	8.00e+02	*
133	PCB-184	3.22e+04	1.38e+03	2.3e+01	3.39e+04	8.00e+02	4.2e+01
134	PCB-176	*	1.38e+03	*	*	8.00e+02	*
135	PCB-186	*	1.38e+03	*	*	8.00e+02	*
136	PCB-178	6.06e+03	1.38e+03	4.4e+00	4.52e+03	8.00e+02	5.7e+00
137	PCB-175	*	1.38e+03	*	*	8.00e+02	*
138	PCB-187	2.84e+04	1.38e+03	2.1e+01	2.32e+04	8.00e+02	2.9e+01
139	PCB-182	*	1.38e+03	*	*	8.00e+02	*
140	PCB-183	1.63e+04	2.11e+03	7.7e+00	1.68e+04	6.36e+02	2.6e+01
141	PCB-185	9.08e+03	2.11e+03	4.3e+00	1.14e+04	6.36e+02	1.8e+01
142	PCB-174	1.72e+04	2.11e+03	8.2e+00	1.73e+04	6.36e+02	2.7e+01
143	PCB-177	*	2.11e+03	*	*	6.36e+02	*
144	PCB-181	*	2.11e+03	*	*	6.36e+02	*
145	PCB-171/173	*	2.11e+03	*	*	6.36e+02	*
146	PCB-172	*	2.11e+03	*	*	6.36e+02	*
147	PCB-192	*	2.11e+03	*	*	6.36e+02	*
148	PCB-180/193	2.26e+04	2.11e+03	1.1e+01	2.29e+04	6.36e+02	3.6e+01
149	PCB-191	*	2.11e+03	*	*	6.36e+02	*
150	PCB-170	6.62e+03	2.11e+03	3.1e+00	6.38e+03	6.36e+02	1.0e+01
151	PCB-190	*	2.11e+03	*	*	6.36e+02	*
152	PCB-189	*	2.11e+03	*	*	6.36e+02	*
153							
154	PCB-202	*	1.26e+03	*	*	1.06e+03	*
155	PCB-201	*	1.26e+03	*	*	1.06e+03	*
156	PCB-204	*	1.26e+03	*	*	1.06e+03	*
157	PCB-197	*	1.26e+03	*	*	1.06e+03	*
158	PCB-200	*	1.26e+03	*	*	1.06e+03	*
159	PCB-198/199	*	1.26e+03	*	*	1.06e+03	*
160	PCB-196	*	1.26e+03	*	*	1.06e+03	*
161	PCB-203	*	1.26e+03	*	*	1.06e+03	*
162	PCB-195	*	1.26e+03	*	*	1.06e+03	*
163	PCB-194	*	1.26e+03	*	*	1.06e+03	*
164	PCB-205	*	1.26e+03	*	*	1.06e+03	*

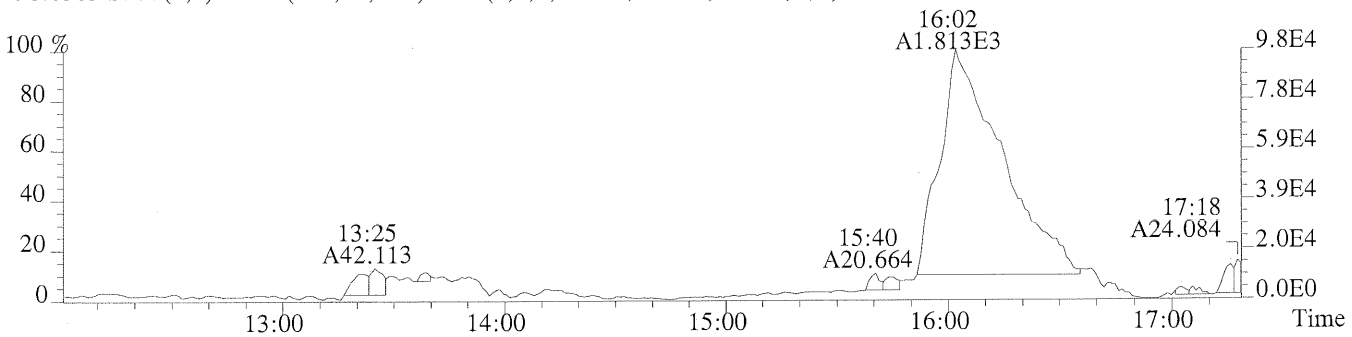
163	PCB-208	*	5.76e+02	*	*	6.72e+02	*
164	PCB-207	*	5.76e+02	*	*	6.72e+02	*
165	PCB-206	*	5.96e+02	*	*	7.96e+02	*
166	PCB-209	5.73e+03	6.40e+02	9.0e+00	3.64e+03	6.24e+02	5.8e+00
167	PCB-1L	2.40e+05	2.80e+05	8.6e-01	7.77e+04	2.45e+04	3.2e+00
168	PCB-3L	6.95e+05	2.80e+05	2.5e+00	2.14e+05	2.45e+04	8.8e+00
169	PCB-4L	1.33e+05	1.61e+03	8.3e+01	8.98e+04	1.17e+03	7.7e+01
170	PCB-15L	9.73e+05	2.31e+03	4.2e+02	6.58e+05	3.28e+03	2.0e+02
171	PCB-19L	6.58e+05	7.33e+03	9.0e+01	5.98e+05	3.18e+04	1.9e+01
172	PCB-37L	1.12e+05	1.08e+04	1.0e+01	8.17e+04	2.33e+04	3.5e+00
173	PCB-54L	1.58e+05	5.27e+03	3.0e+01	1.75e+05	2.96e+03	5.9e+01
174	PCB-81L	2.32e+05	3.53e+03	6.6e+01	2.85e+05	4.31e+03	6.6e+01
175	PCB-77L	2.57e+05	3.53e+03	7.3e+01	3.18e+05	4.31e+03	7.4e+01
176	PCB-104L	8.42e+04	3.64e+03	2.3e+01	4.73e+04	2.34e+03	2.0e+01
177	PCB-123L	3.63e+05	4.84e+03	7.5e+01	2.19e+05	1.82e+03	1.2e+02
178	PCB-118L	5.05e+05	4.84e+03	1.0e+02	3.28e+05	1.82e+03	1.8e+02
179	PCB-114L	6.47e+05	4.84e+03	1.3e+02	3.79e+05	1.82e+03	2.1e+02
180	PCB-105L	3.94e+05	4.84e+03	8.1e+01	2.22e+05	1.82e+03	1.2e+02
181	PCB-126L	5.66e+05	4.84e+03	1.2e+02	3.66e+05	1.82e+03	2.0e+02
182	PCB-155L	1.89e+05	8.22e+03	2.3e+01	1.39e+05	2.63e+04	5.3e+00
183	PCB-167L	6.26e+05	3.06e+03	2.0e+02	4.77e+05	3.68e+03	1.3e+02
184	PCB-156/157L	1.09e+06	3.06e+03	3.6e+02	8.45e+05	3.68e+03	2.3e+02
185	PCB-169L	6.34e+05	3.06e+03	2.1e+02	5.07e+05	3.68e+03	1.4e+02
186	PCB-188L	4.17e+05	1.22e+03	3.4e+02	3.82e+05	7.60e+02	5.0e+02
187	PCB-189L	6.58e+05	1.03e+03	6.4e+02	6.33e+05	1.01e+03	6.3e+02
188	PCB-202L	4.13e+05	8.84e+02	4.7e+02	4.55e+05	9.60e+02	4.7e+02
189	PCB-205L	4.97e+05	8.84e+02	5.6e+02	5.33e+05	9.60e+02	5.6e+02
190	PCB-208L	3.72e+05	1.18e+03	3.2e+02	4.58e+05	7.92e+02	5.8e+02
191	PCB-206L	3.87e+05	6.64e+02	5.8e+02	5.12e+05	6.40e+02	8.0e+02
192	PCB-209L	4.73e+05	7.20e+02	6.6e+02	3.85e+05	4.68e+02	8.2e+02
193	PCB-28L	1.33e+05	1.08e+04	1.2e+01	1.28e+05	2.33e+04	5.5e+00
194	PCB-111L	3.92e+05	3.39e+03	1.2e+02	2.43e+05	1.96e+03	1.2e+02
195	PCB-178L	2.84e+05	1.22e+03	2.3e+02	2.82e+05	7.60e+02	3.7e+02
196	PCB-9L	2.92e+06	2.31e+03	1.3e+03	1.79e+06	3.28e+03	5.5e+02
197	PCB-52L	8.66e+04	3.66e+03	2.4e+01	1.02e+05	2.79e+03	3.7e+01
198	PCB-101L	2.80e+05	3.39e+03	8.3e+01	1.81e+05	1.96e+03	9.2e+01
199	PCB-138L	3.54e+05	3.70e+03	9.6e+01	2.85e+05	6.06e+03	4.7e+01
200	PCB-194L	5.11e+05	8.84e+02	5.8e+02	5.46e+05	9.60e+02	5.7e+02

File:U142067 #1-341 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs

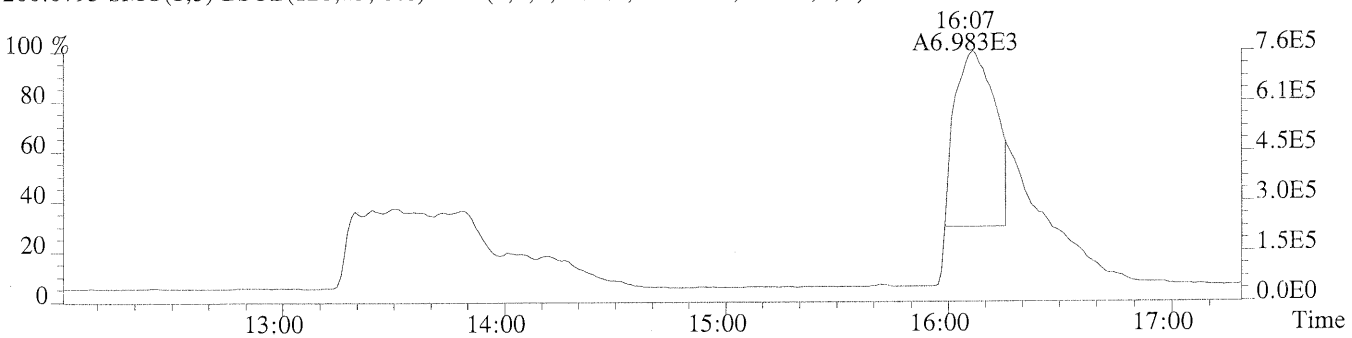
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,35432.0,1.00%,F,T)



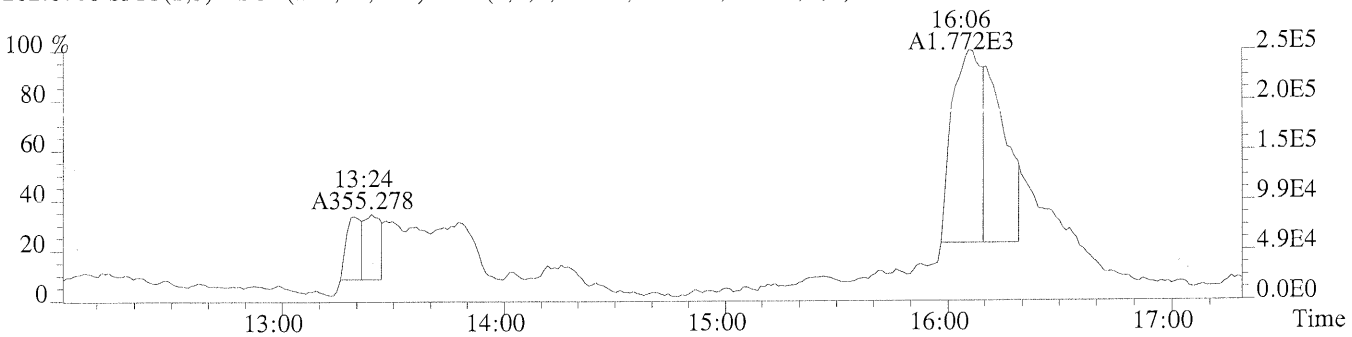
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2588.0,1.00%,F,T)



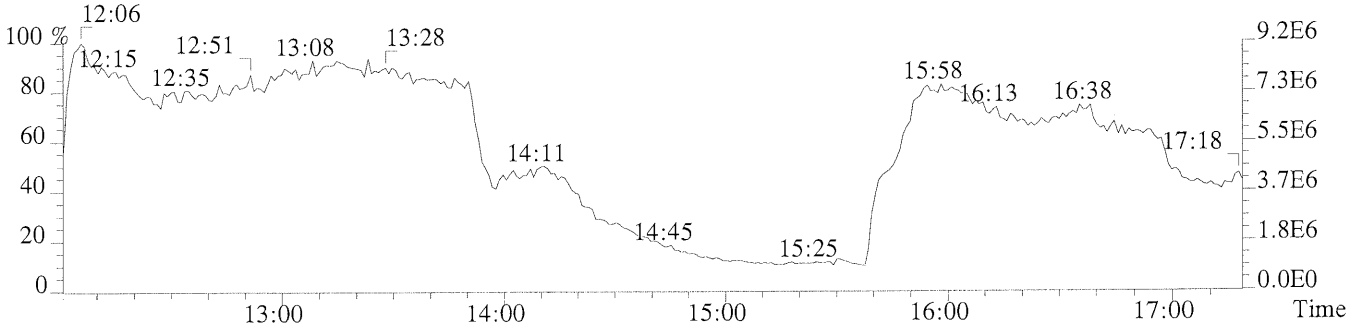
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,279560.0,1.00%,F,T)



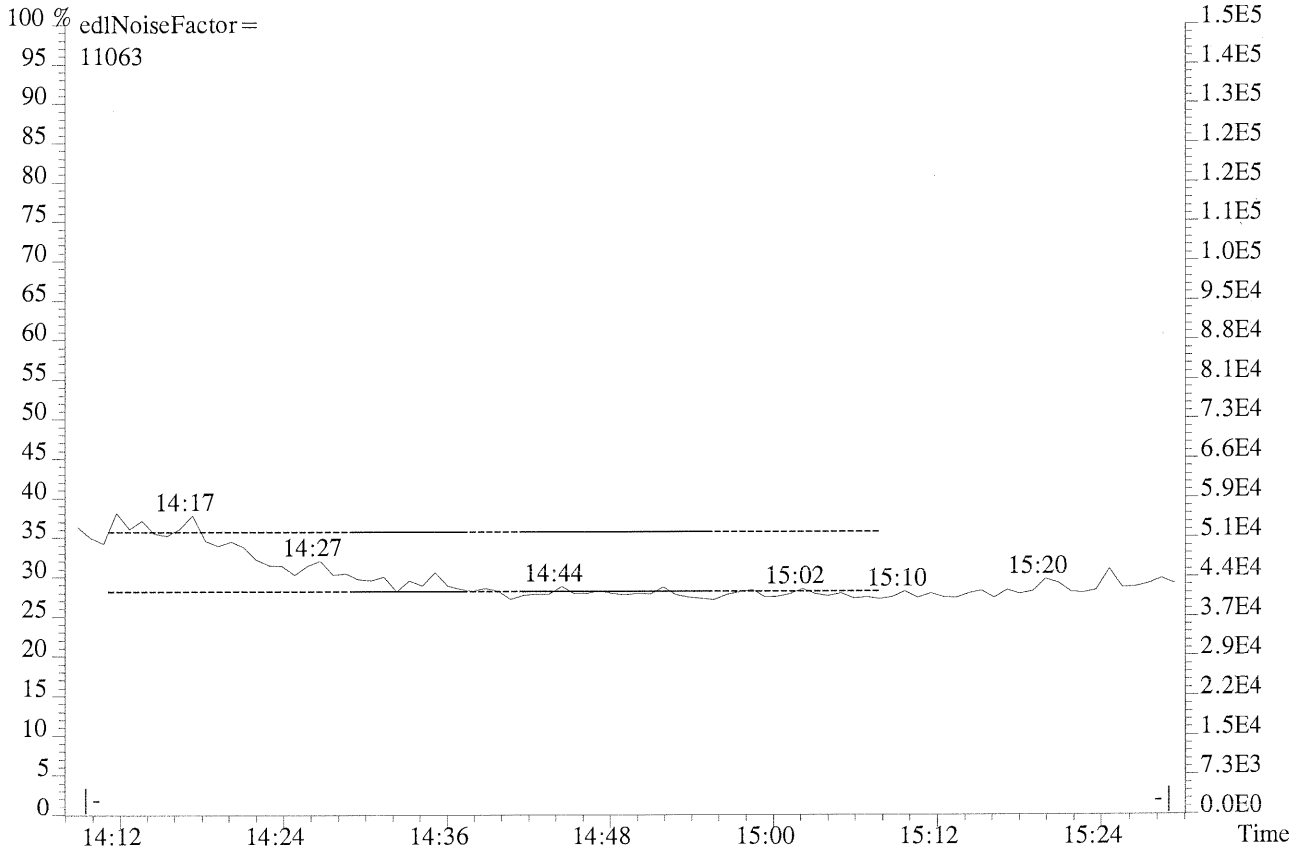
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,24456.0,1.00%,F,T)



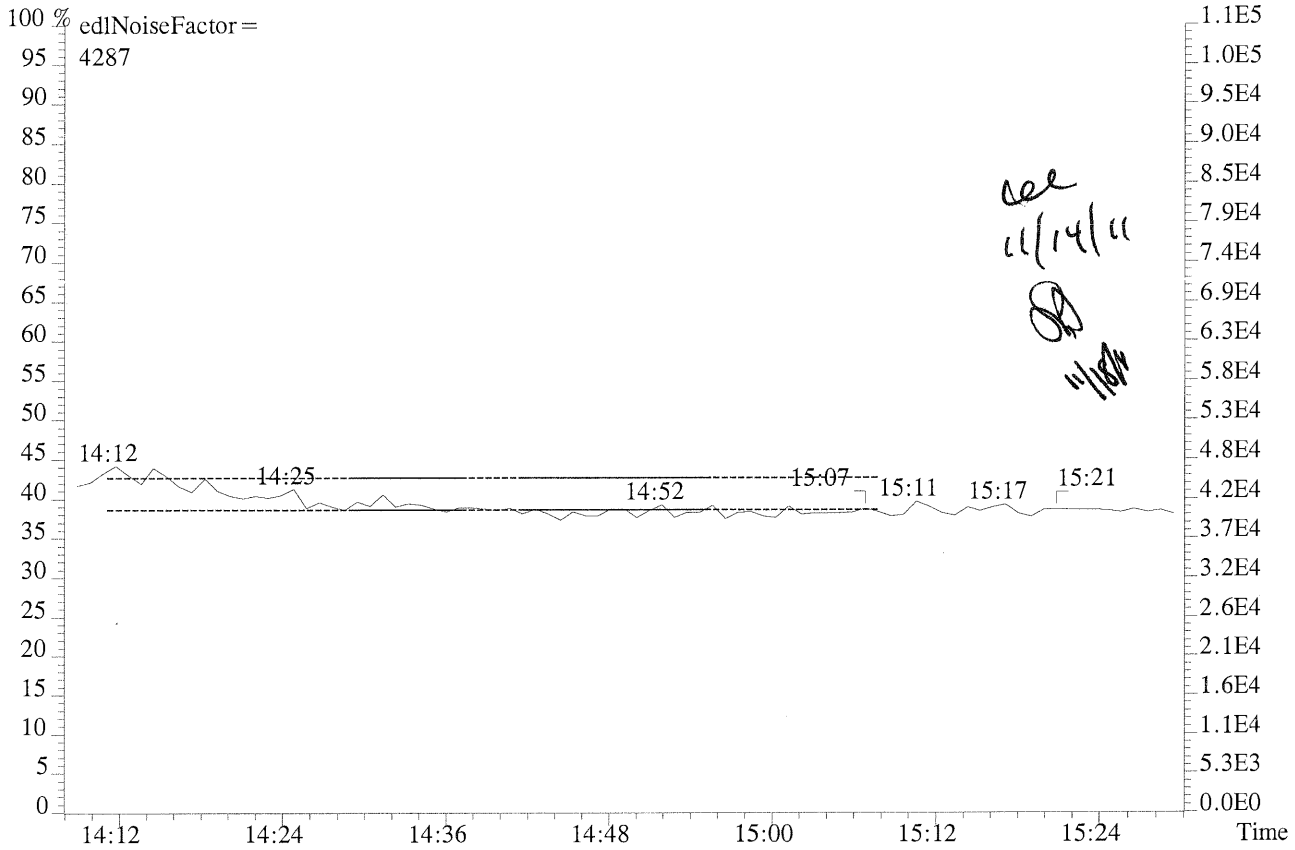
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142067 #1-341 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
188.0393



190.0363



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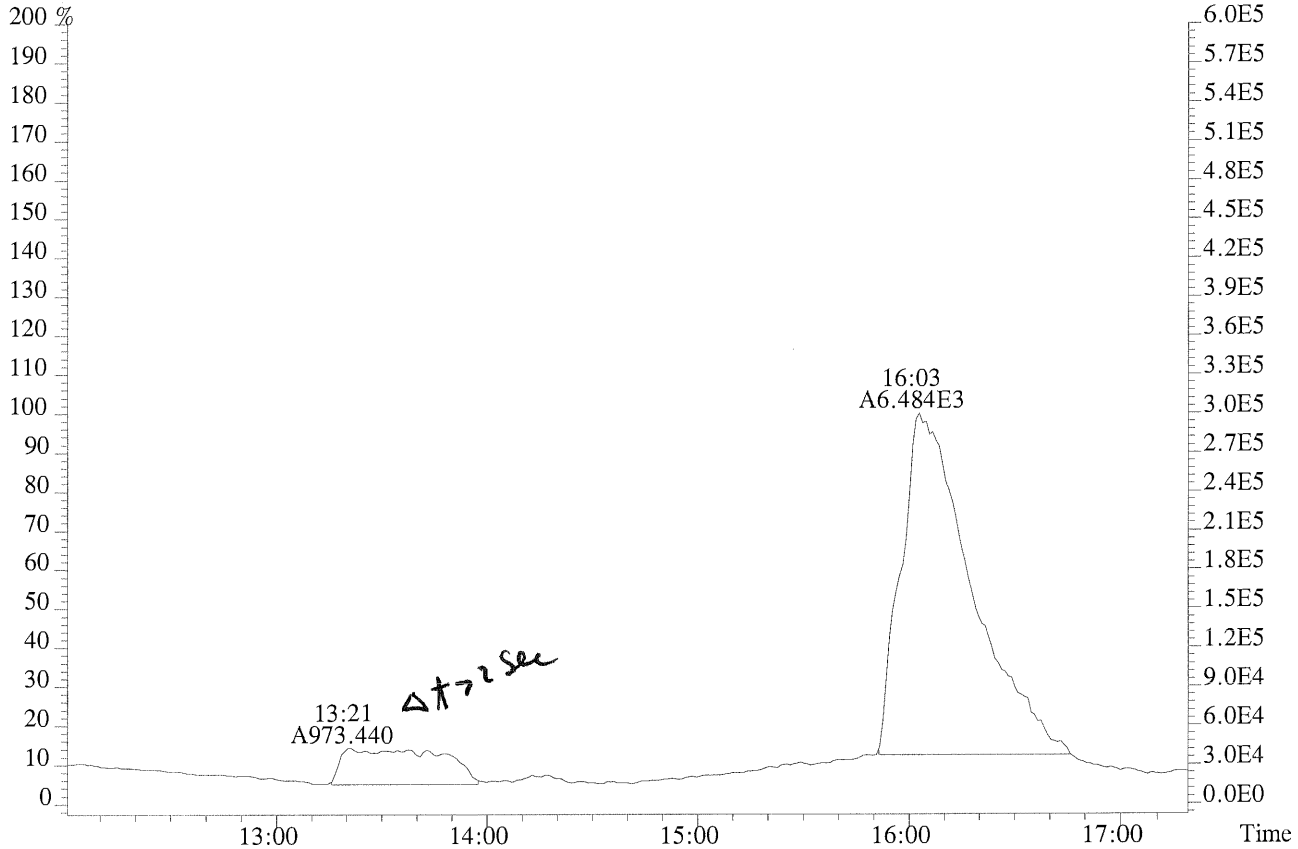
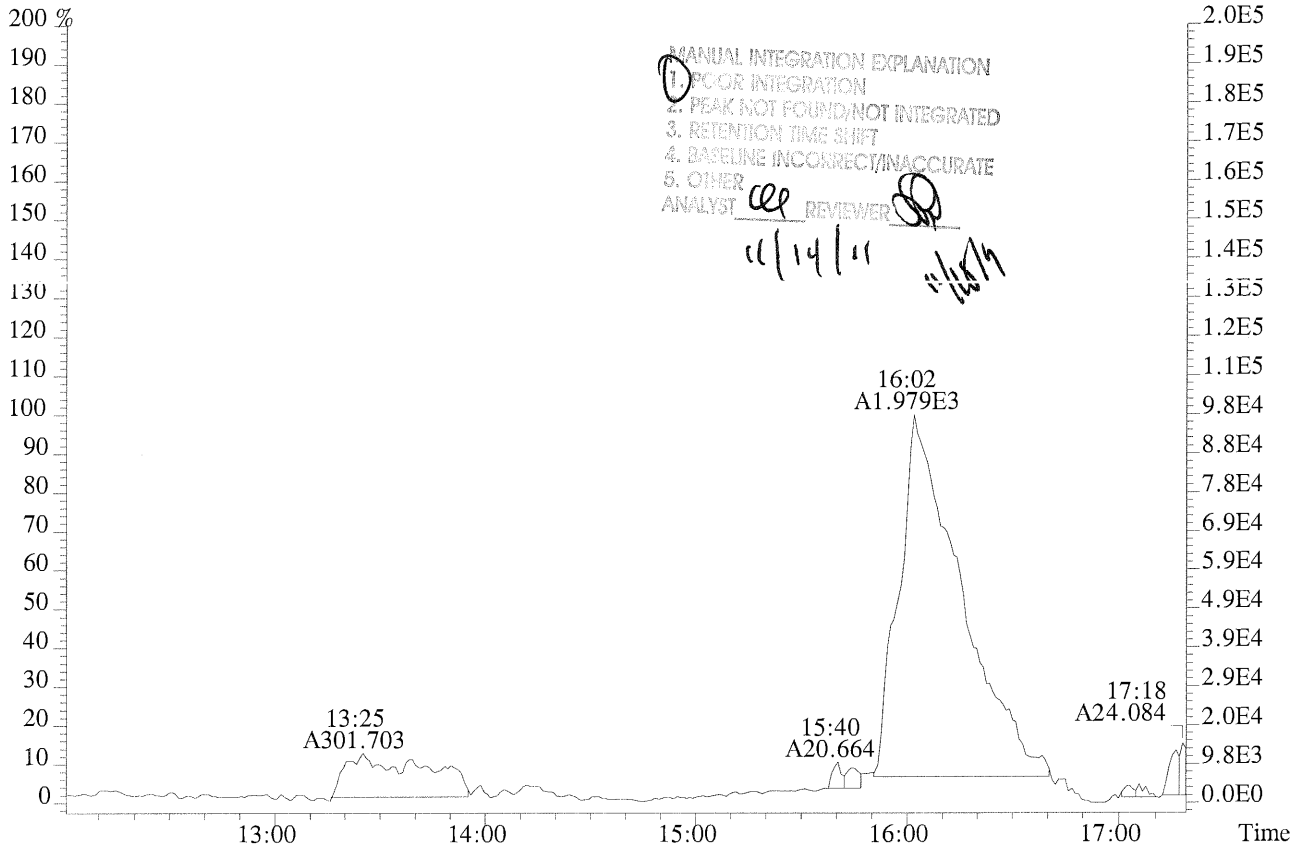
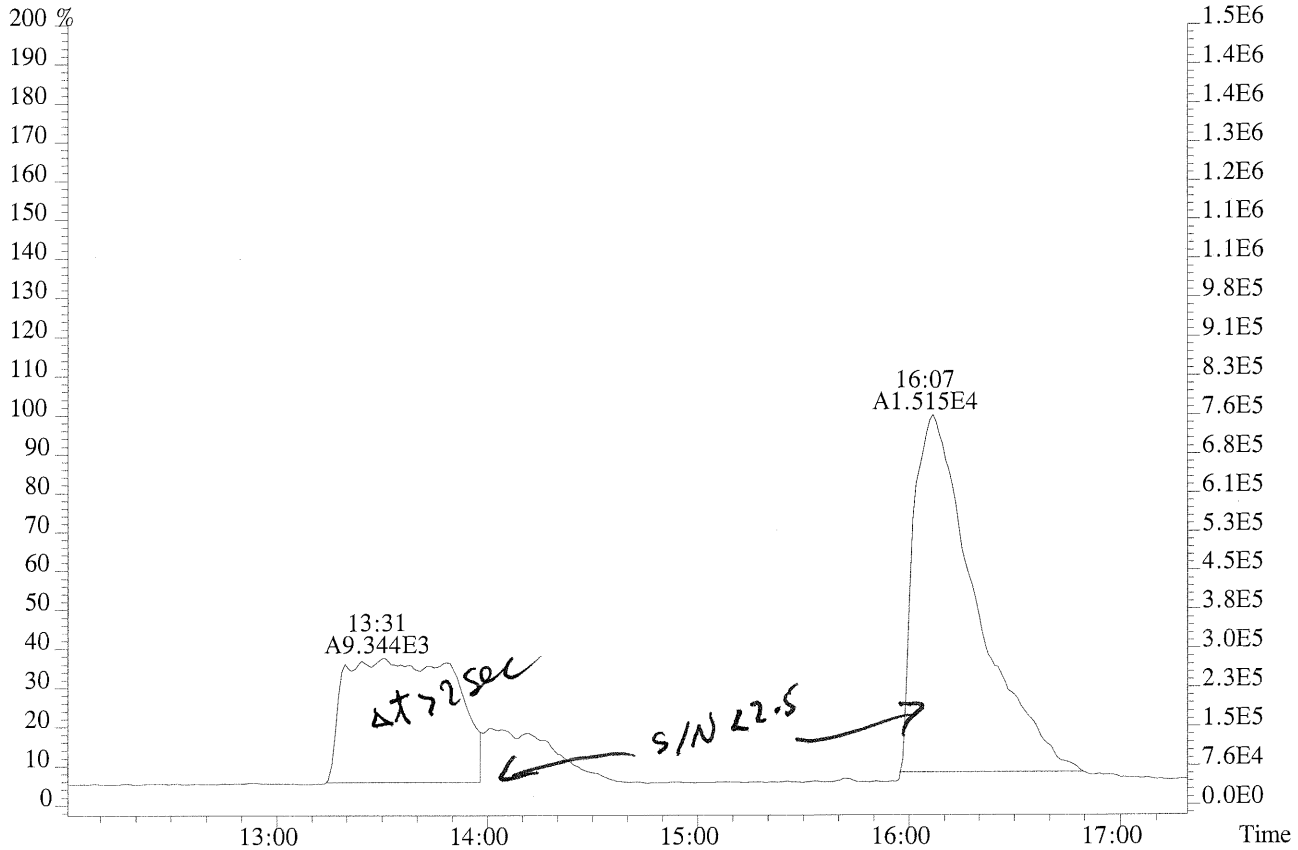
File:U142067 #1-341 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,35432.0,1.00%,F,T)



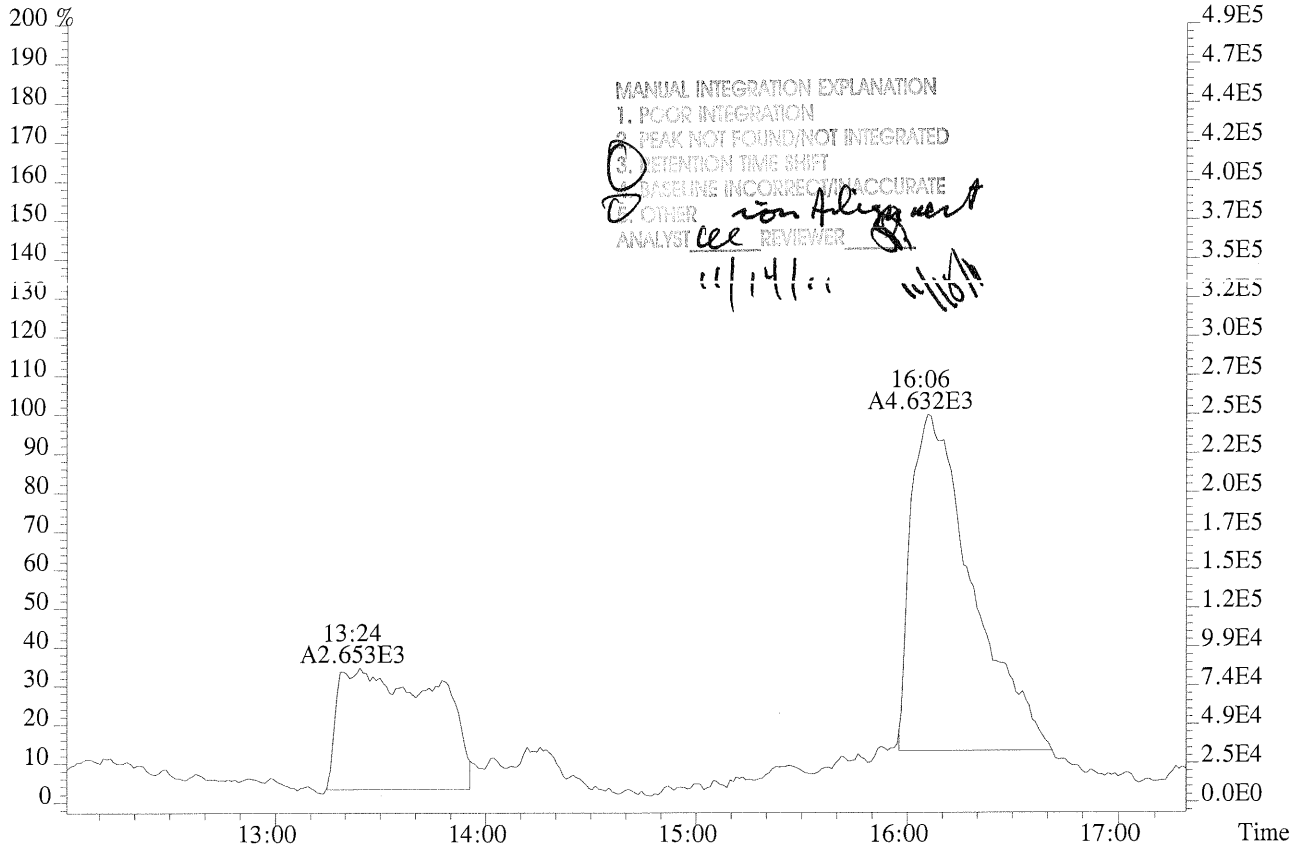
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2588.0,1.00%,F,T)



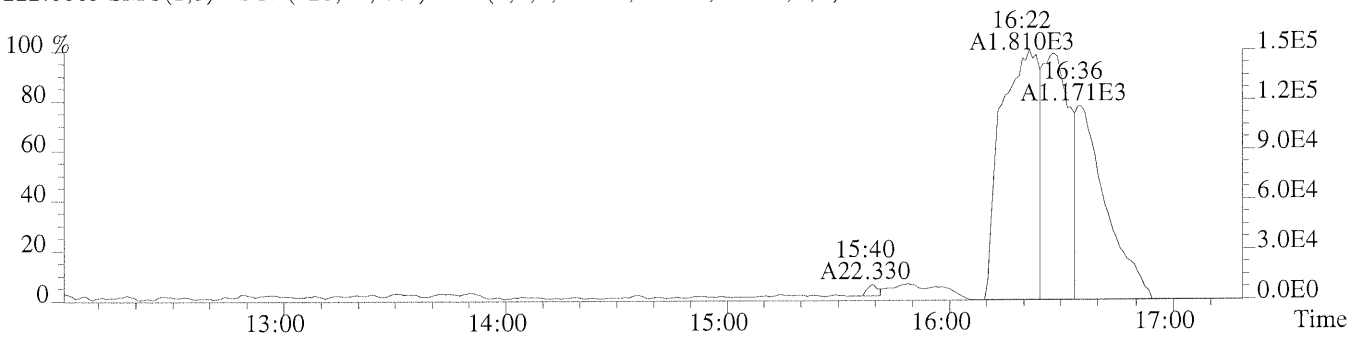
File:U142067 #1-341 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,279560.0,1.00%,F,T)



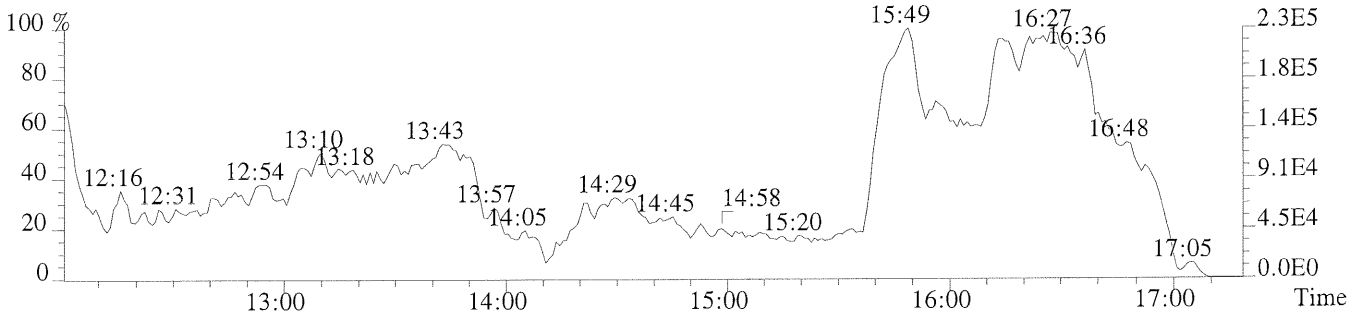
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,24456.0,1.00%,F,T)



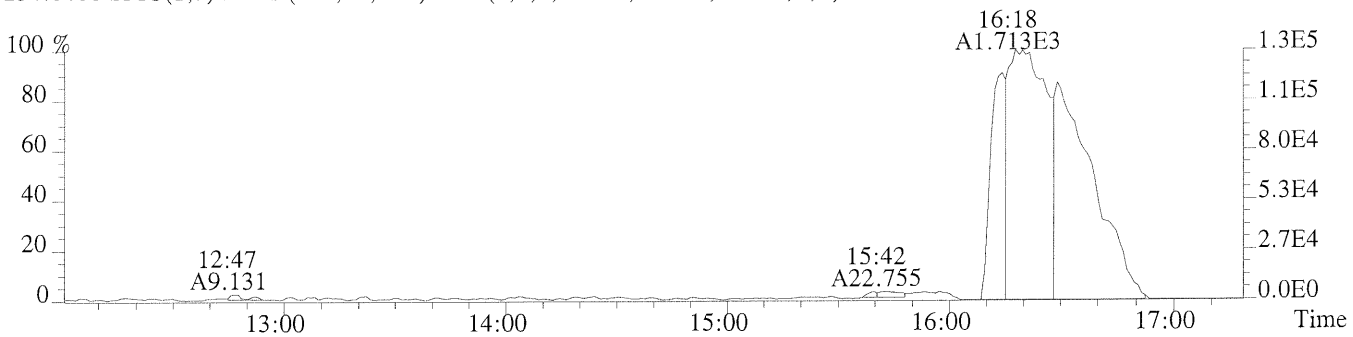
File:U142067 #1-341 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2920.0,1.00%,F,T)



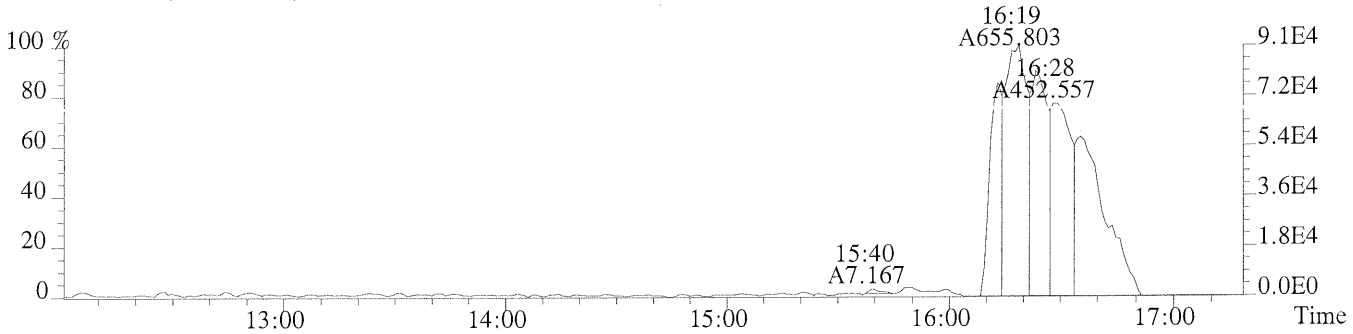
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,104248.0,1.00%,F,T)



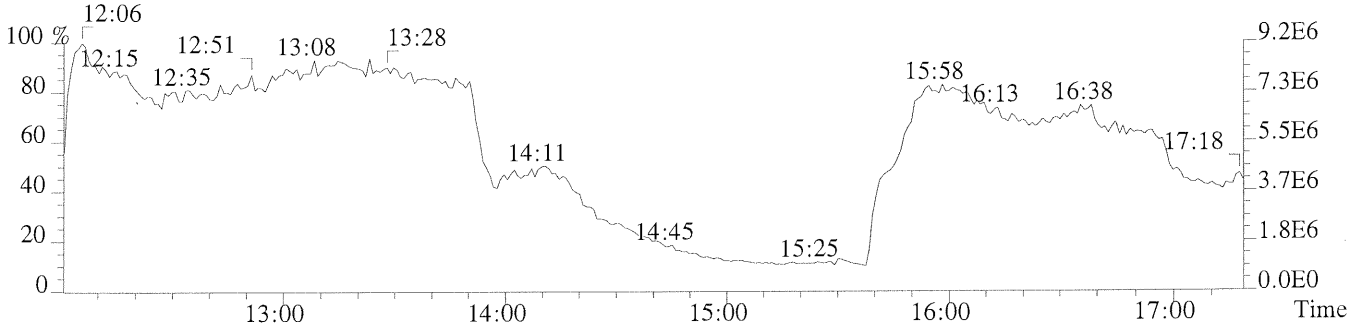
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1612.0,1.00%,F,T)



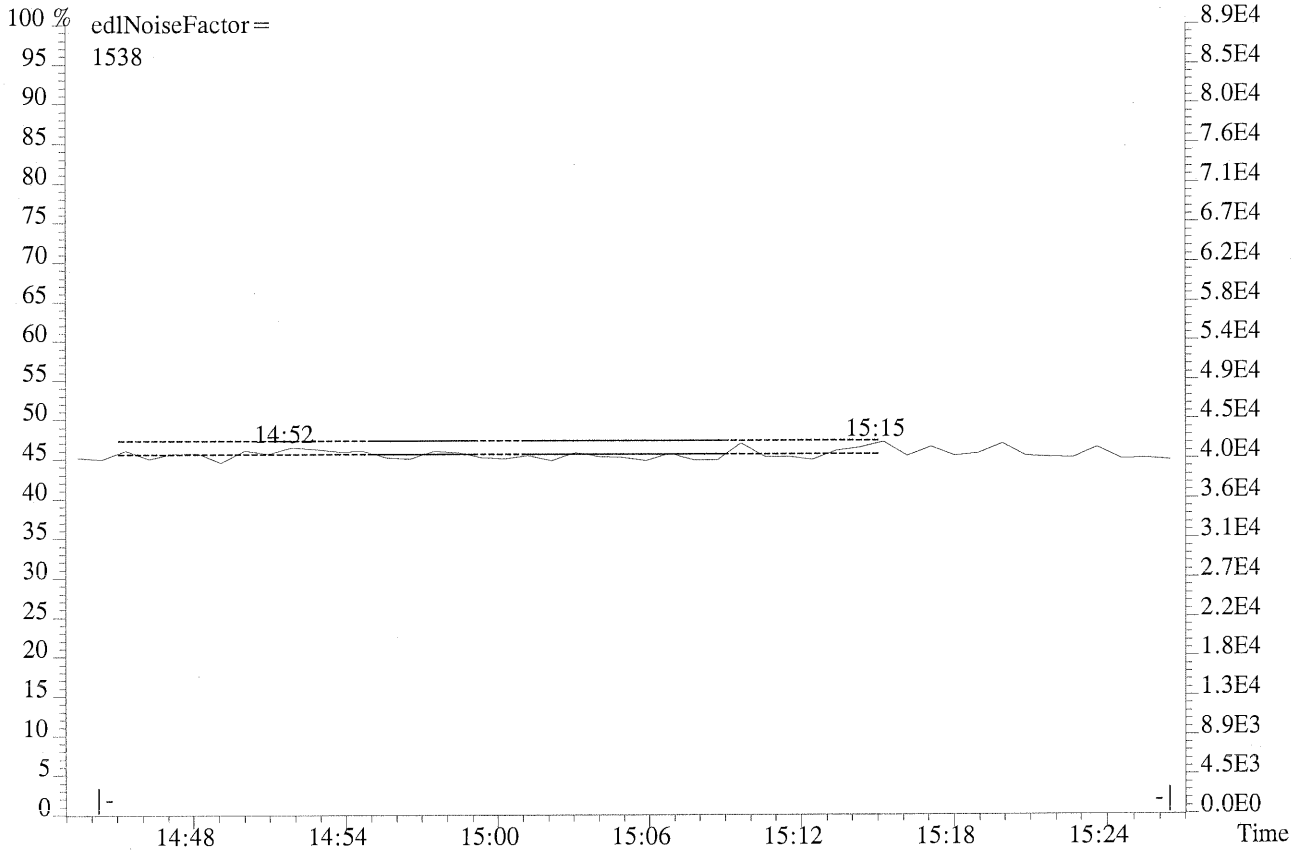
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1172.0,1.00%,F,T)



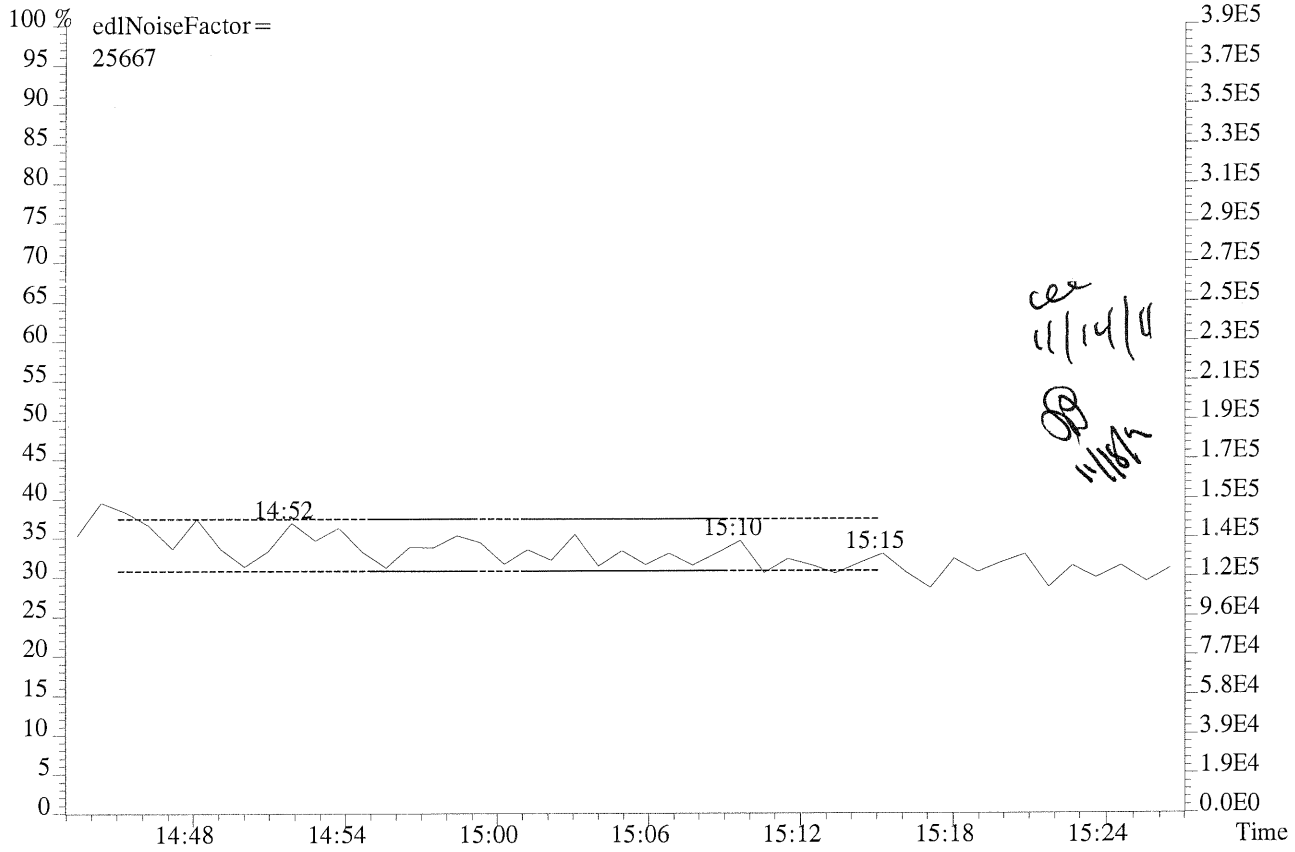
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142067 #1-341 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
222.0003



223.9974



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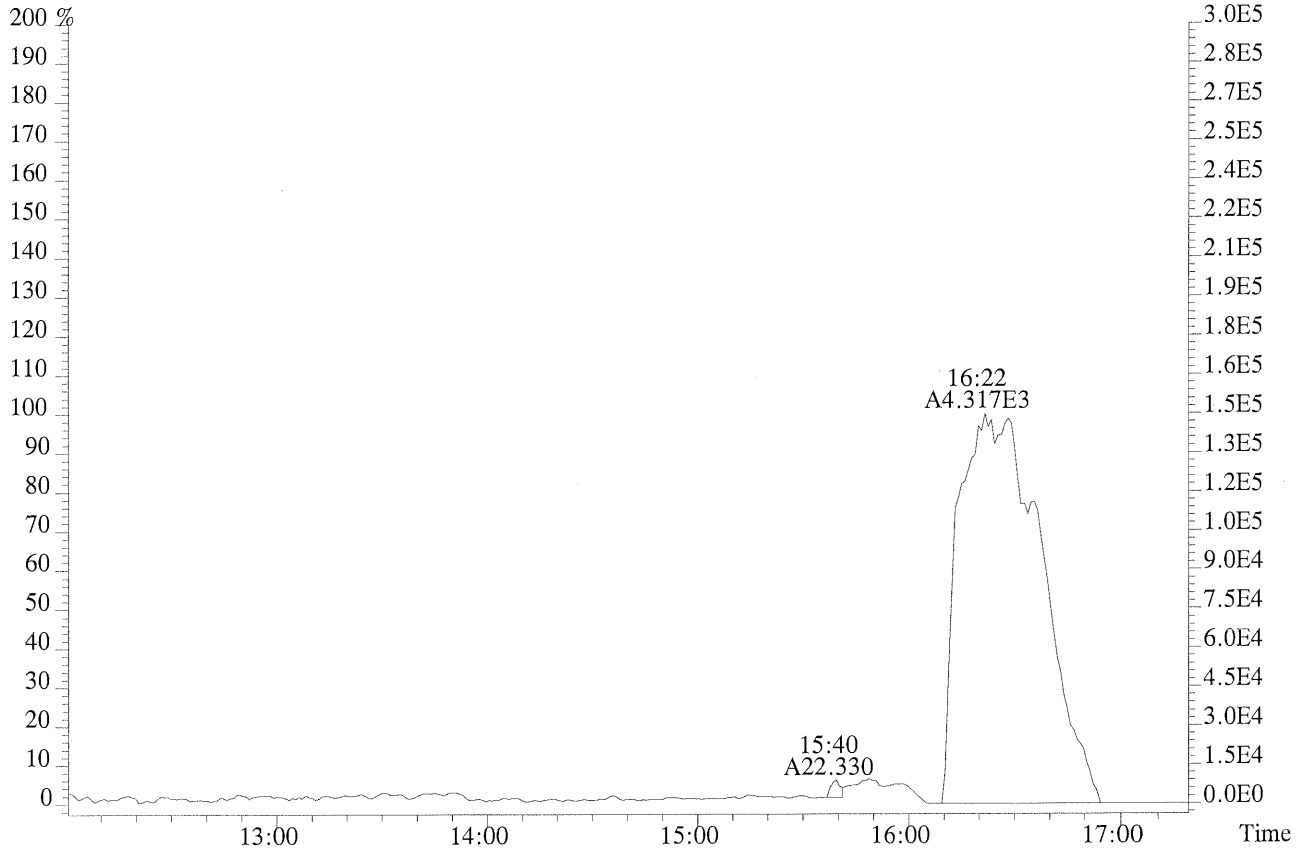
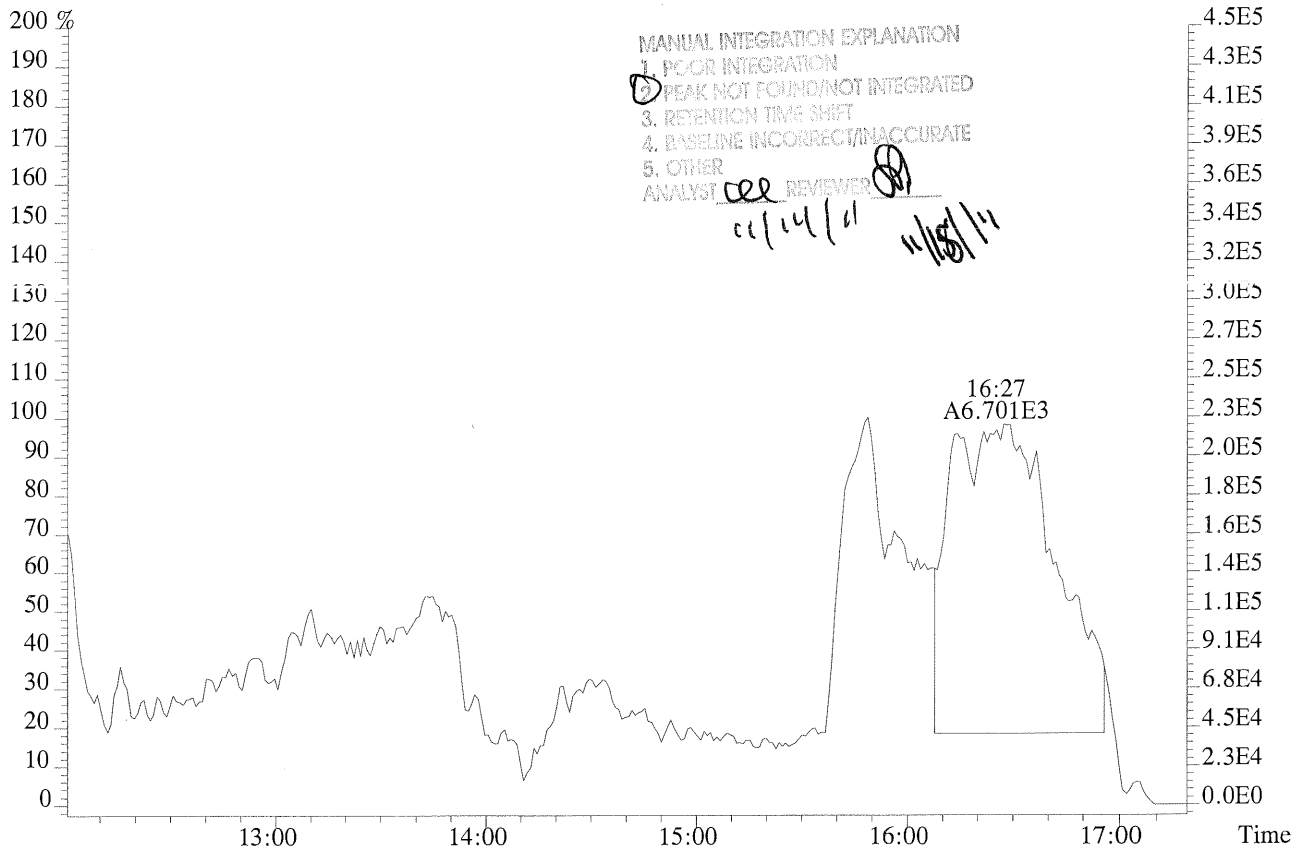
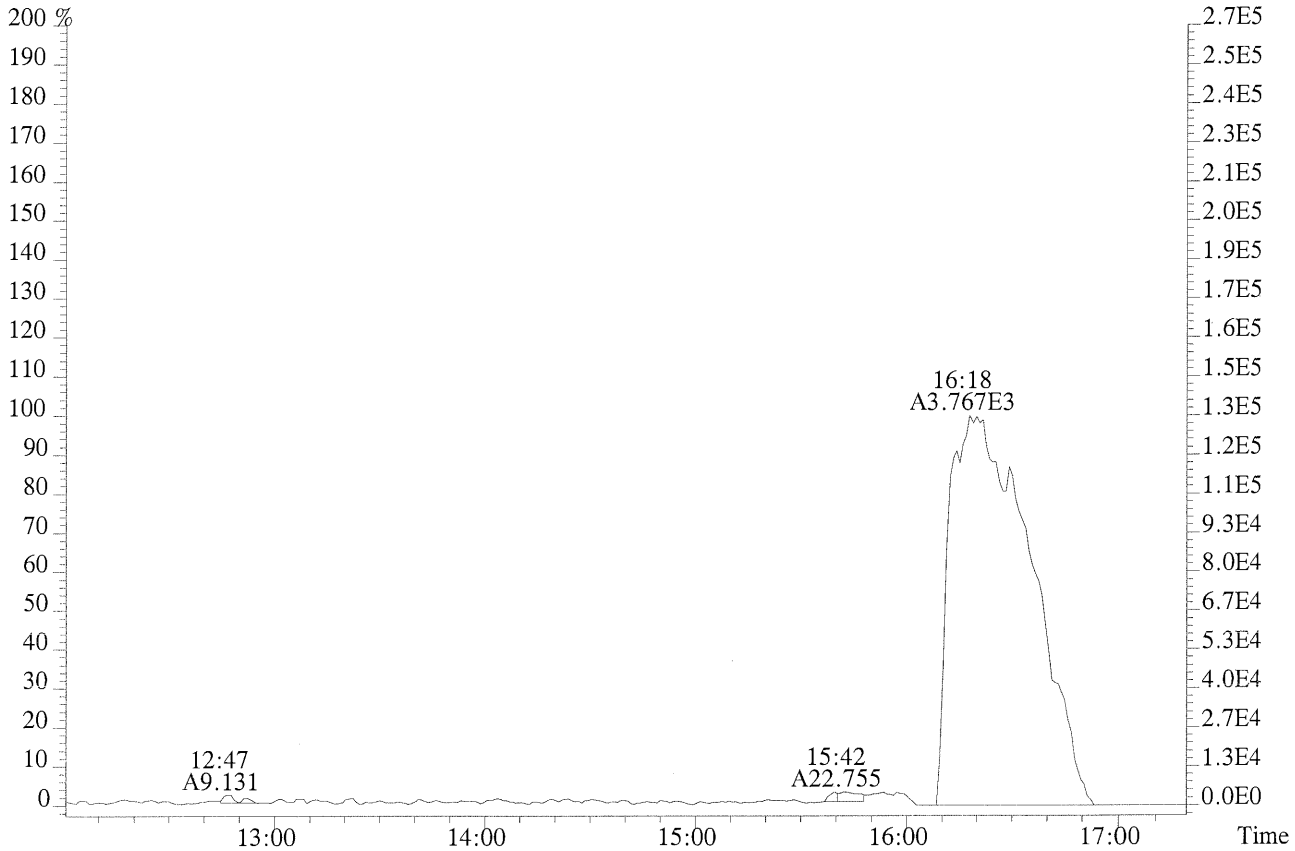
File:U142067 #1-341 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2920.0,1.00%,F,T)



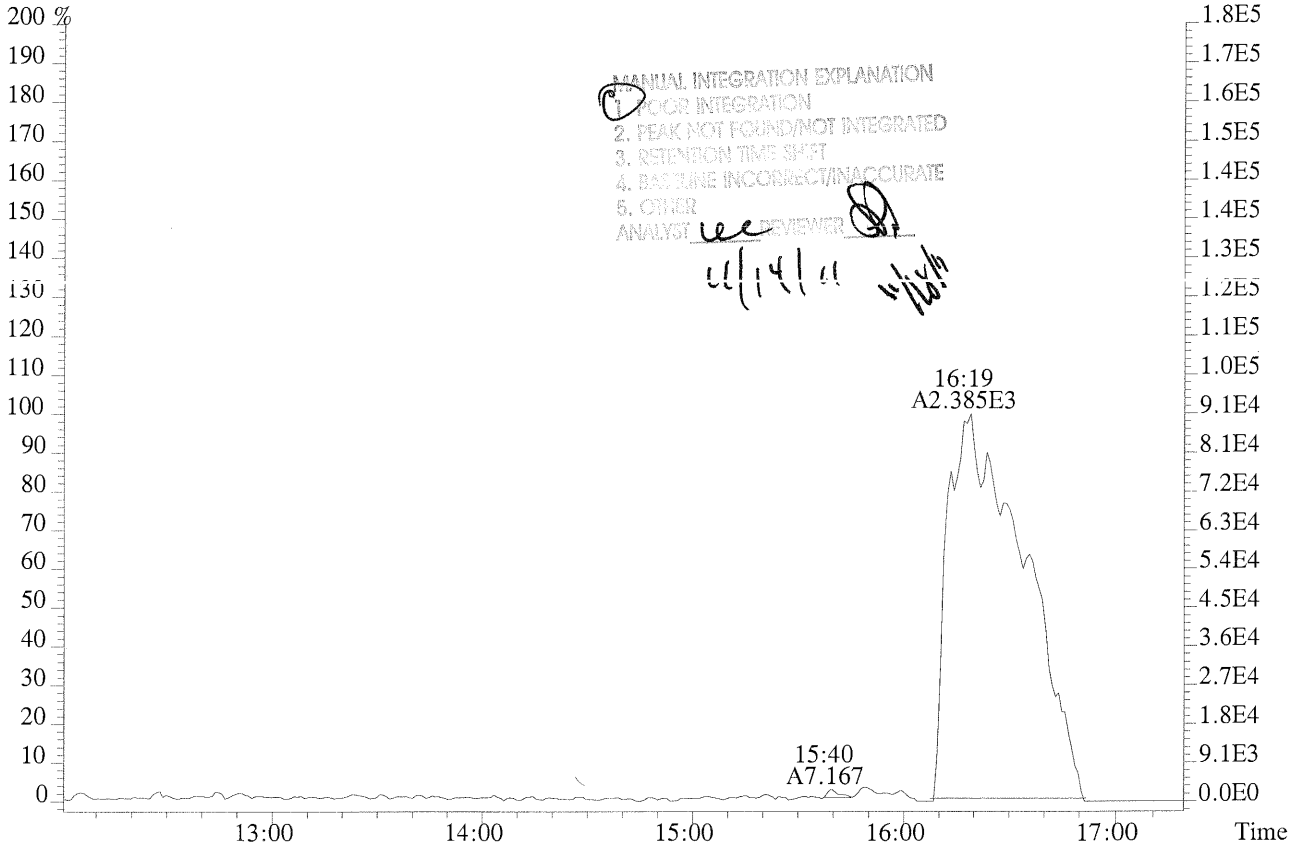
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,104248.0,1.00%,F,T)



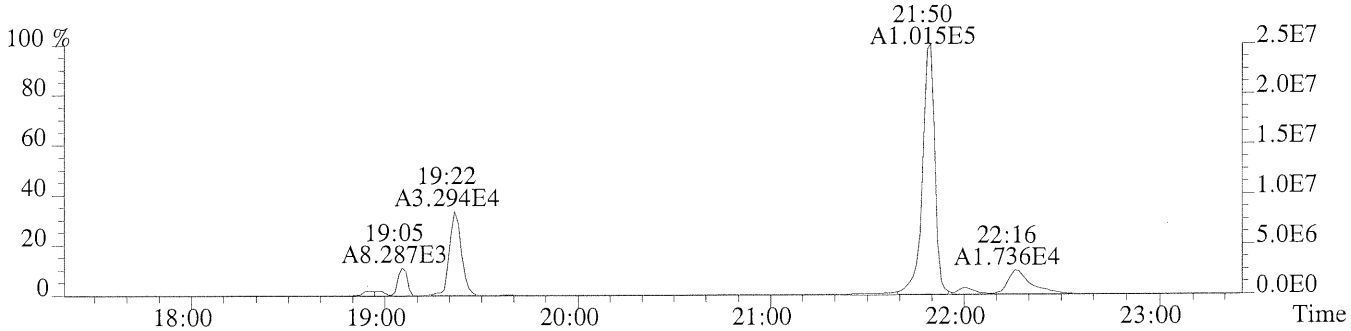
File:U142067 #1-341 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1612.0,1.00%,F,T)



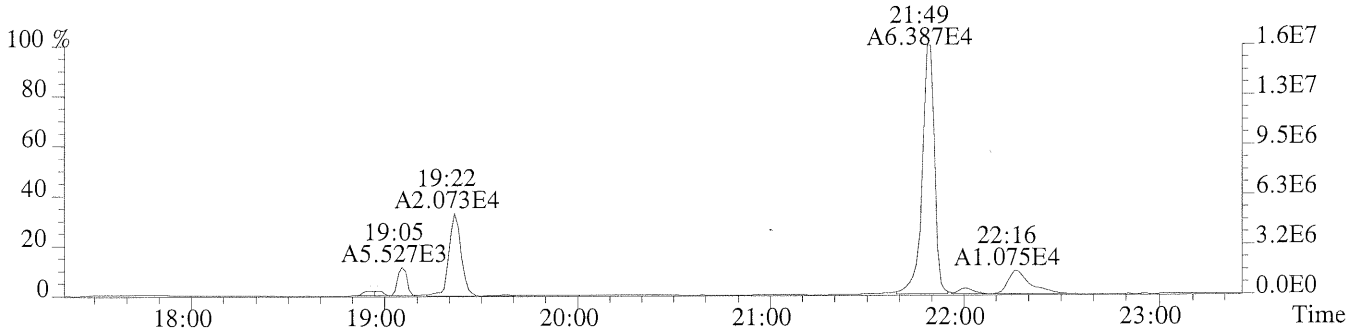
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1172.0,1.00%,F,T)



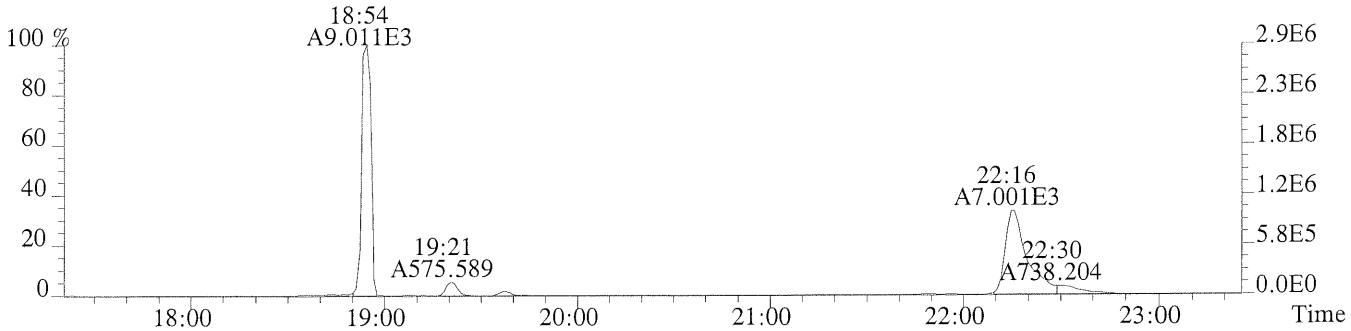
File:U142067 #1-336 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2176.0,1.00%,F,T)



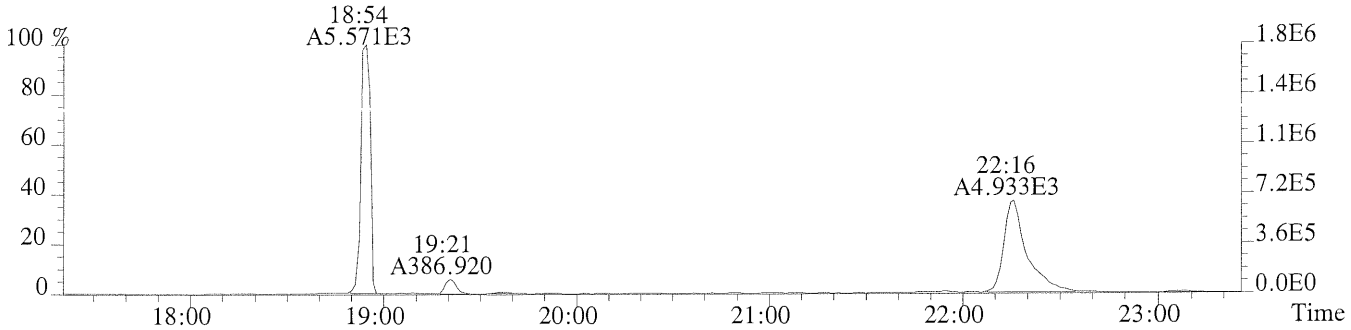
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,30488.0,1.00%,F,T)



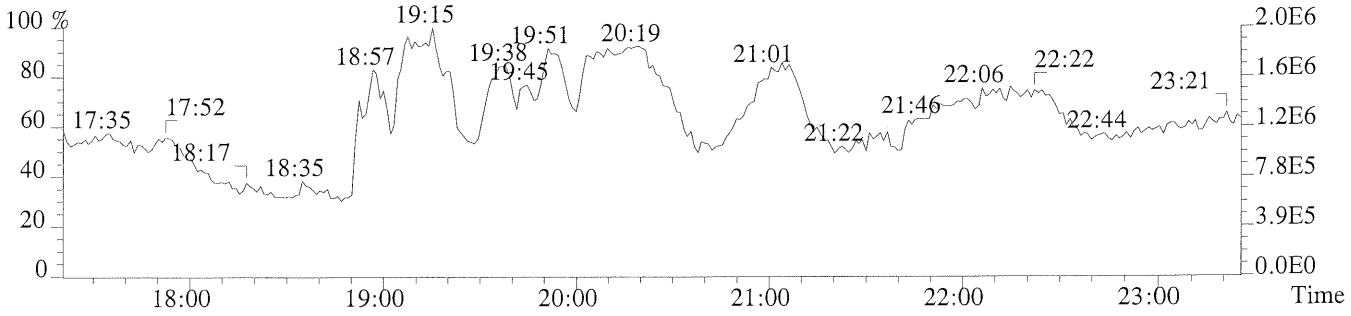
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2312.0,1.00%,F,T)



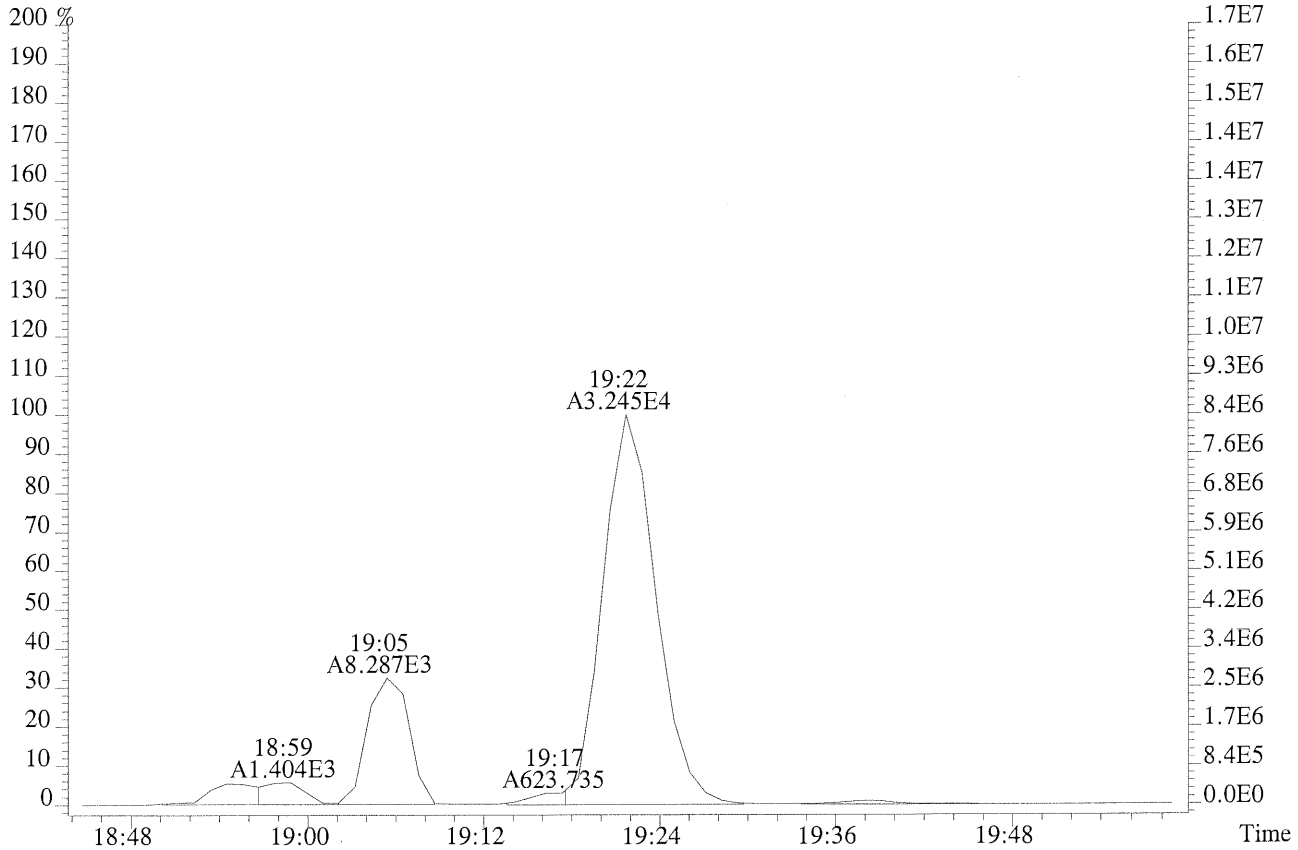
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3280.0,1.00%,F,T)



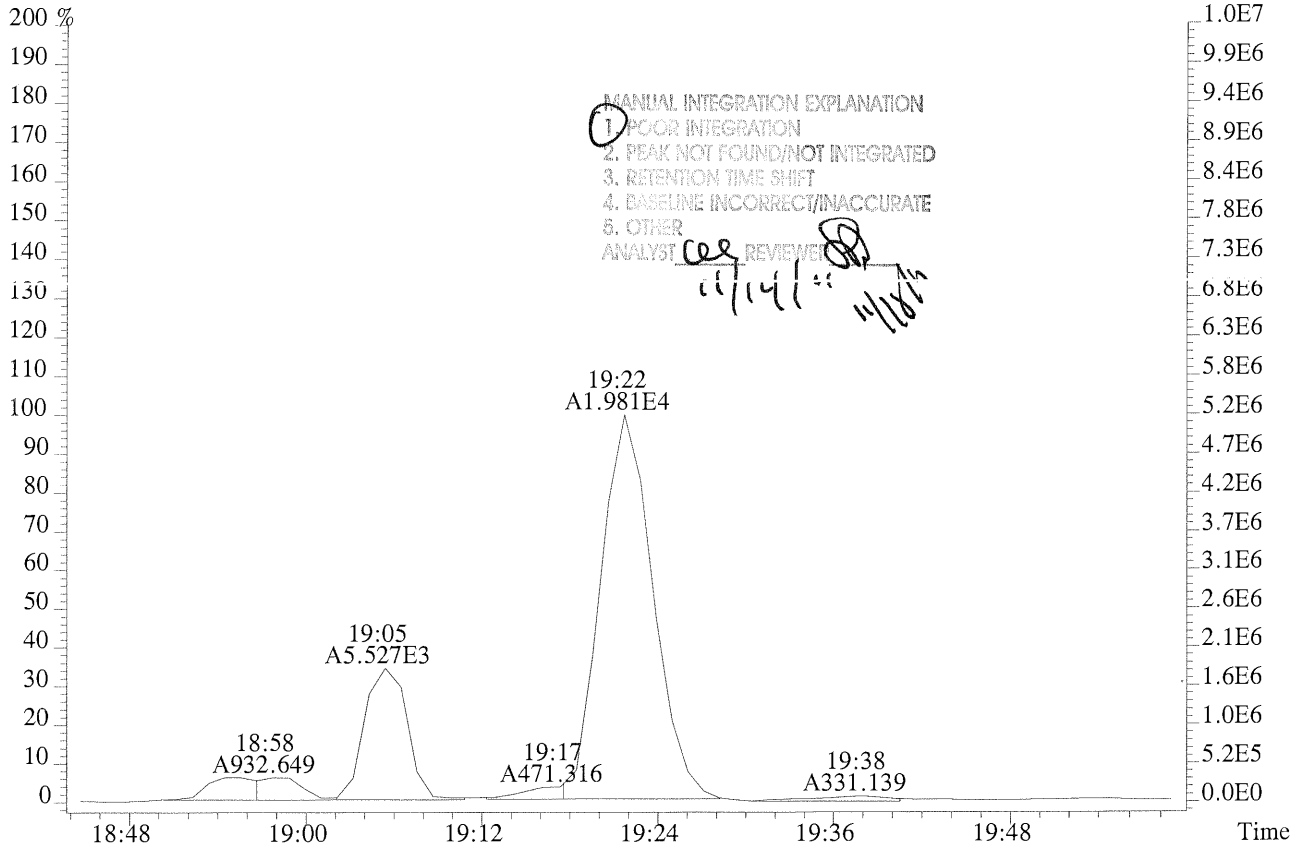
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



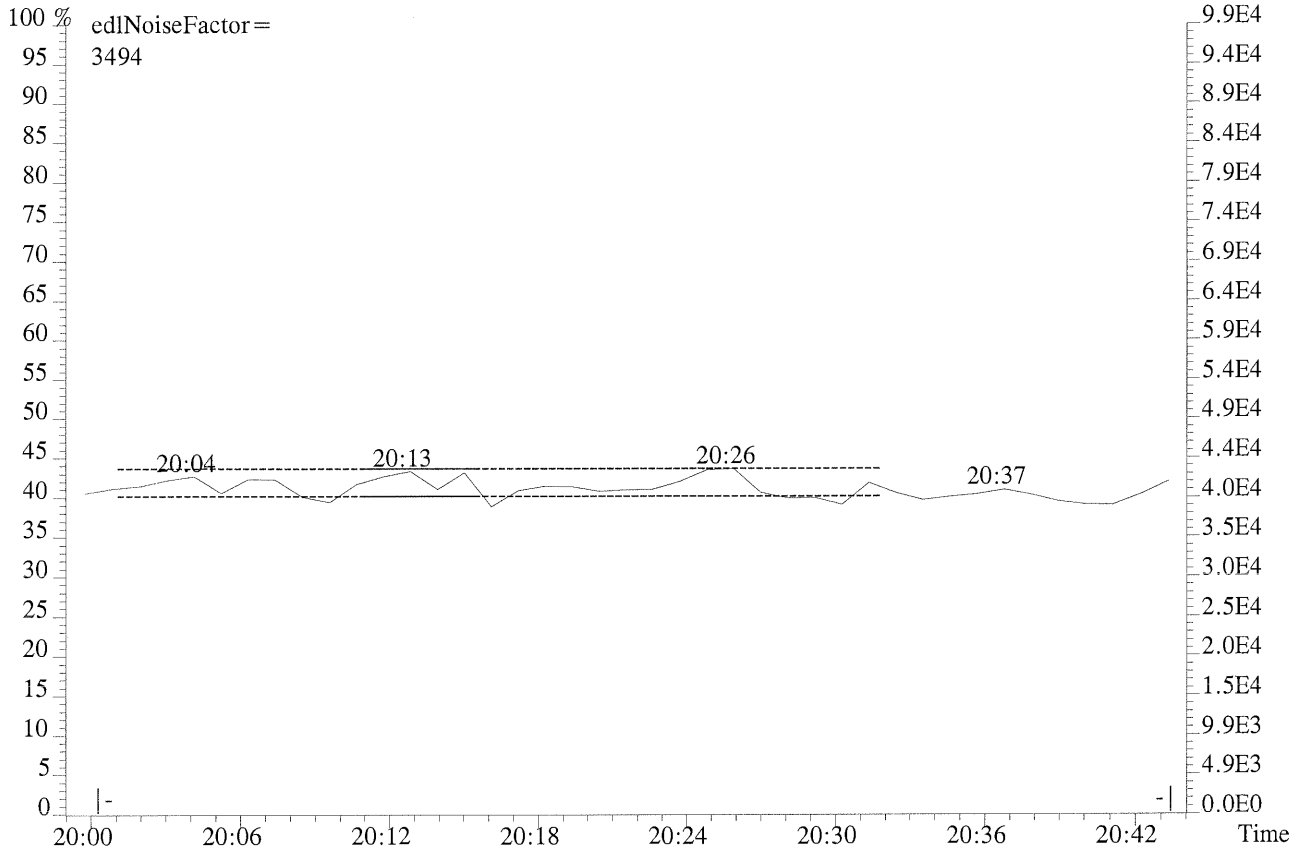
File:U142067 #1-336 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2176.0,1.00%,F,T)



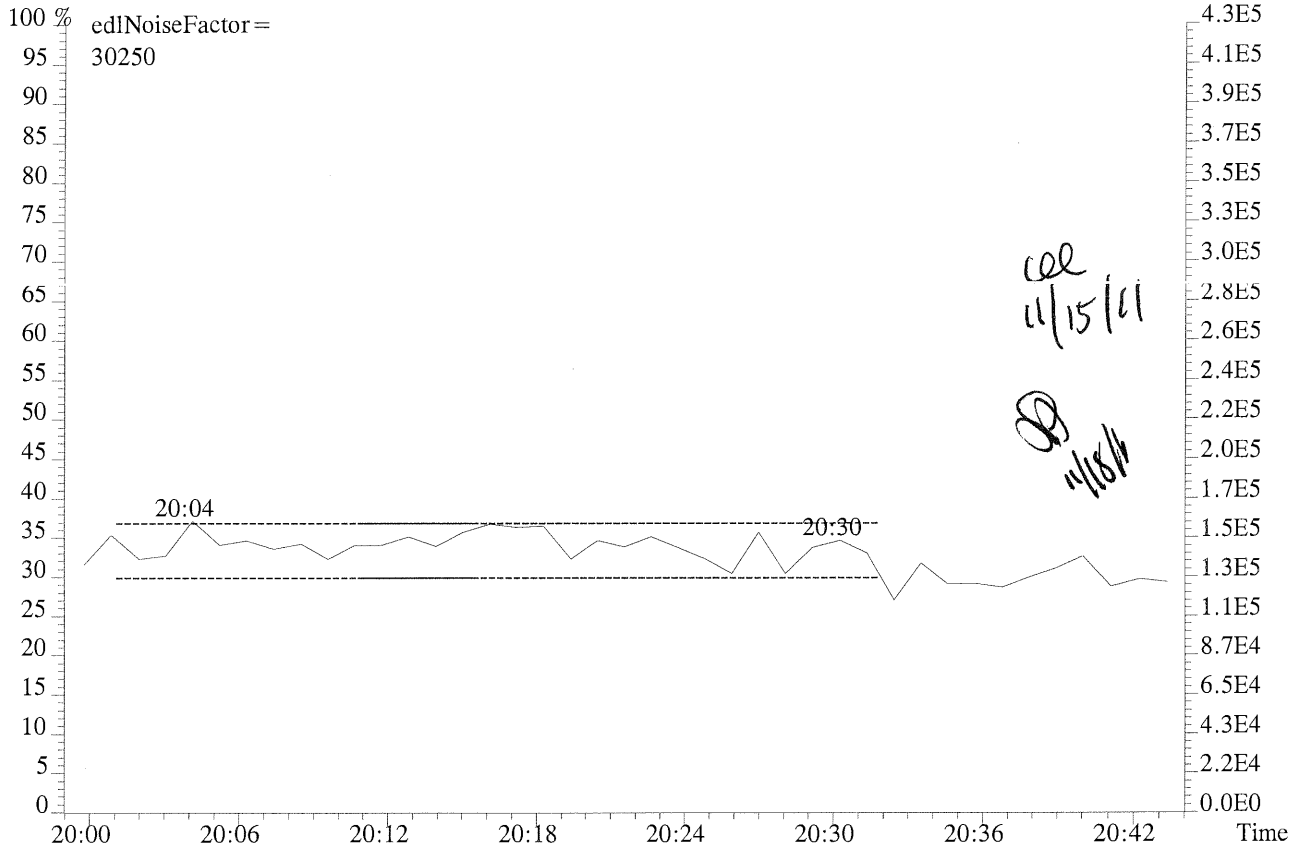
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,30488.0,1.00%,F,T)



File:U142067 #1-336 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
222.0003 F:2



223.9974 F:2



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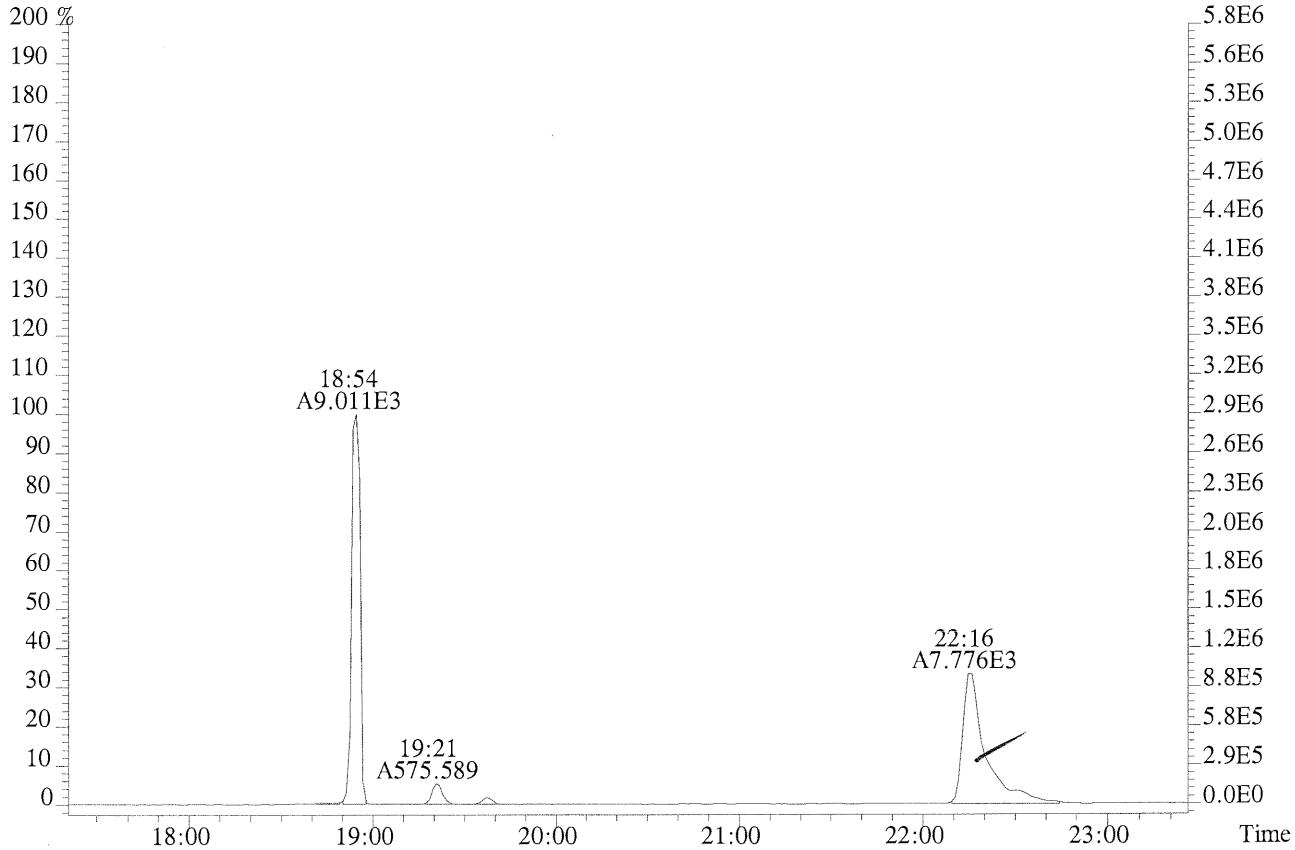
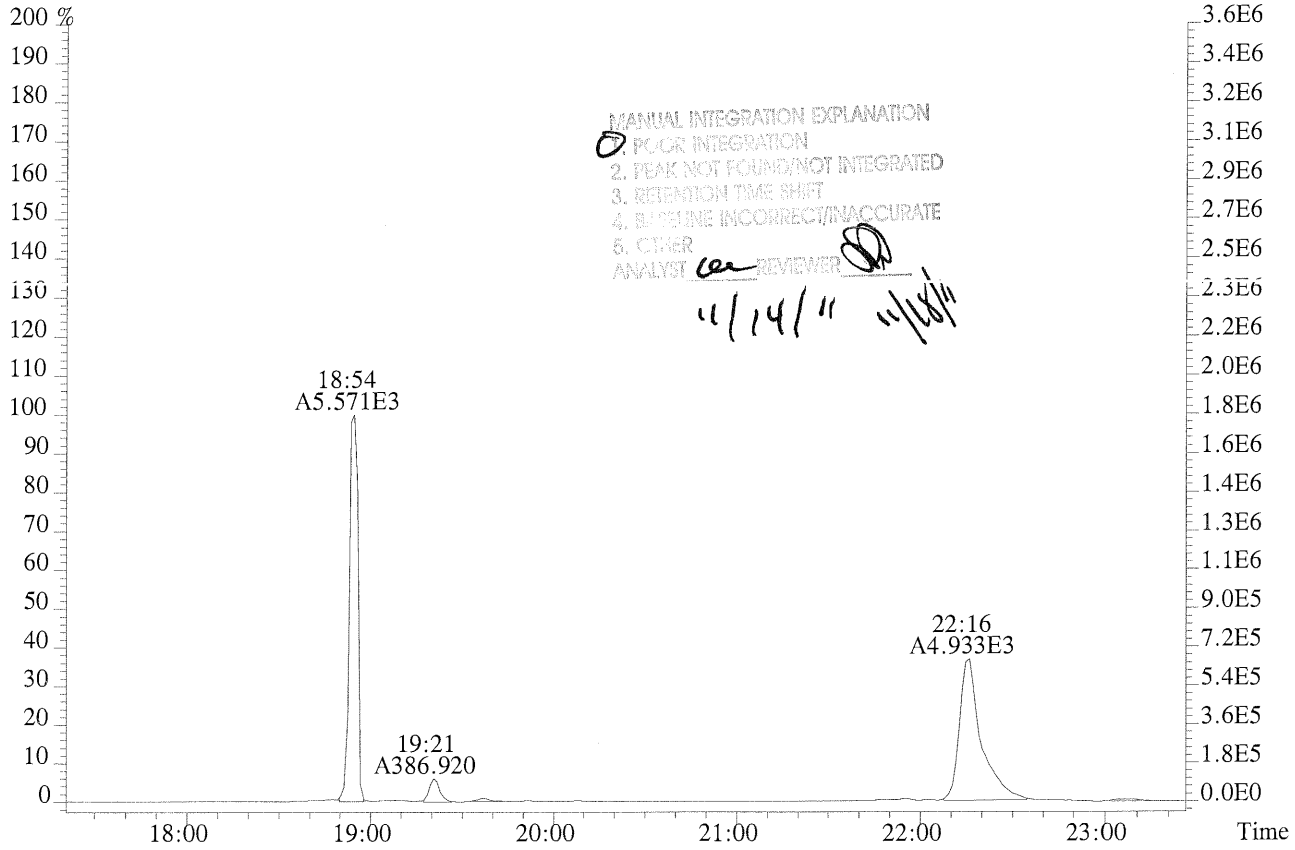
File:U142067 #1-336 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2312.0,1.00%,F,T)

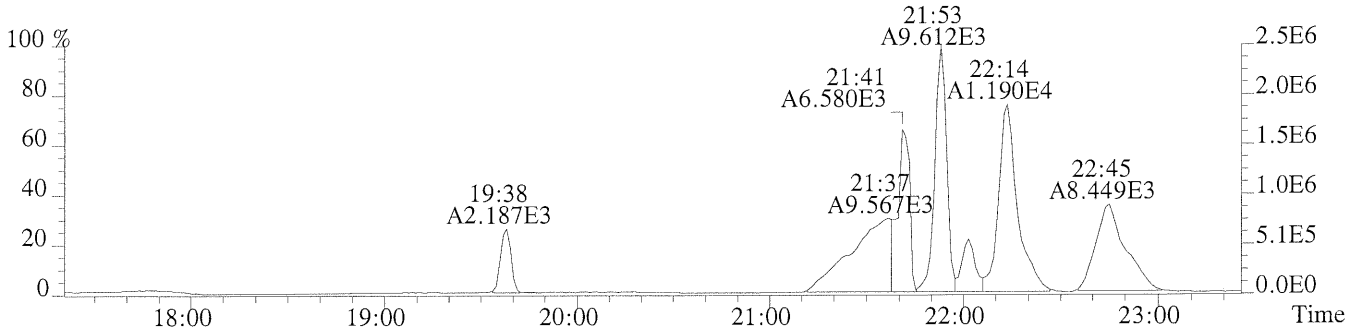


236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3280.0,1.00%,F,T)

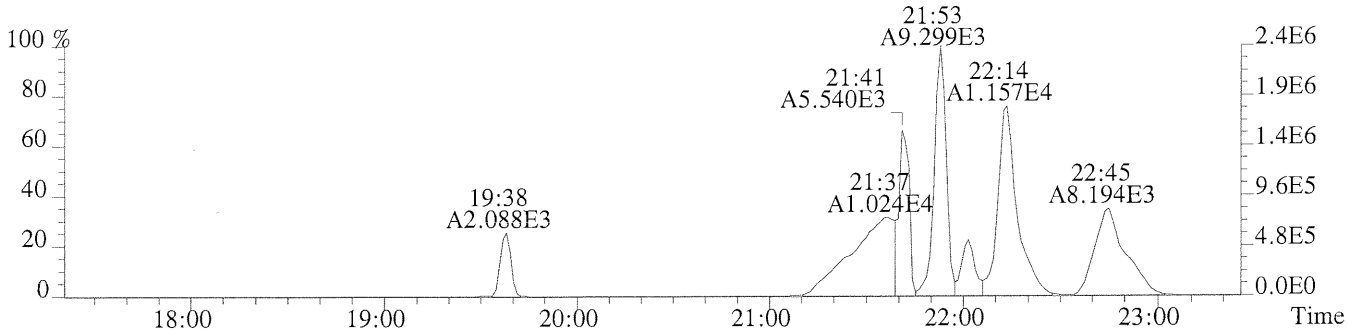


MANUAL INTEGRATION EXPLANATION
0. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST REVIEWER
11/14/11 11/18/11

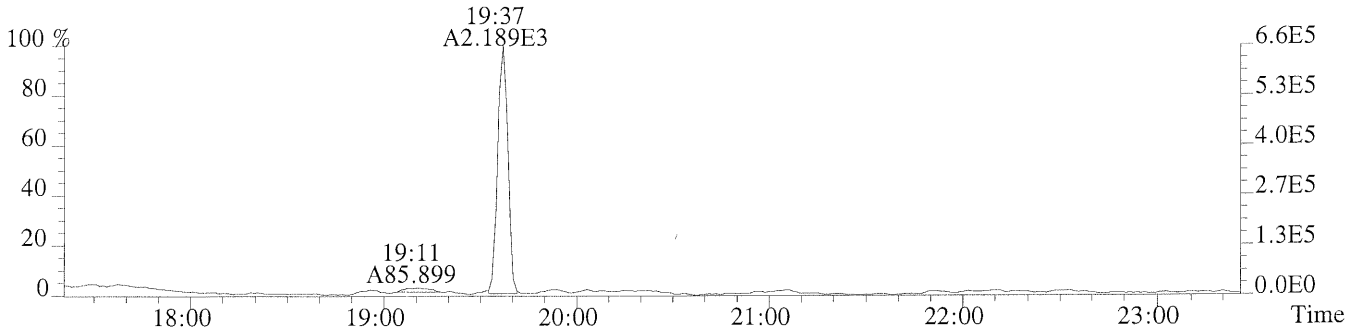
File:U142067 #1-336 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,34036.0,1.00%,F,T)



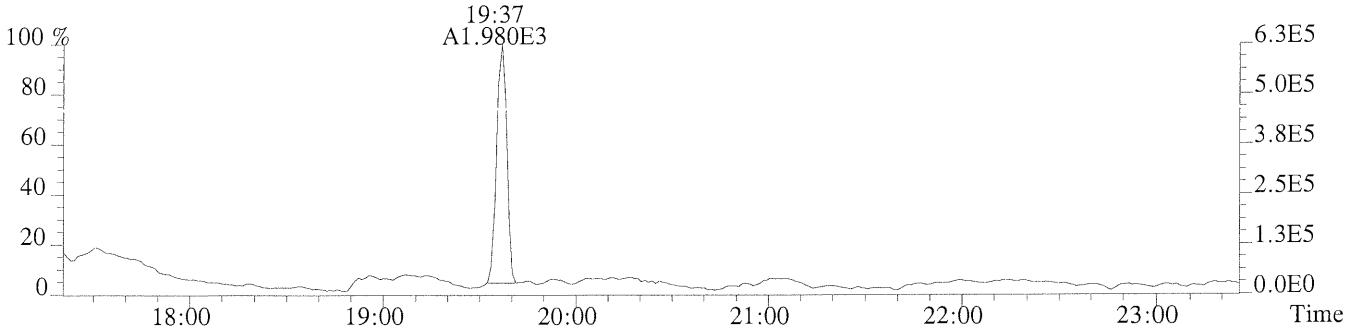
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1600.0,1.00%,F,T)



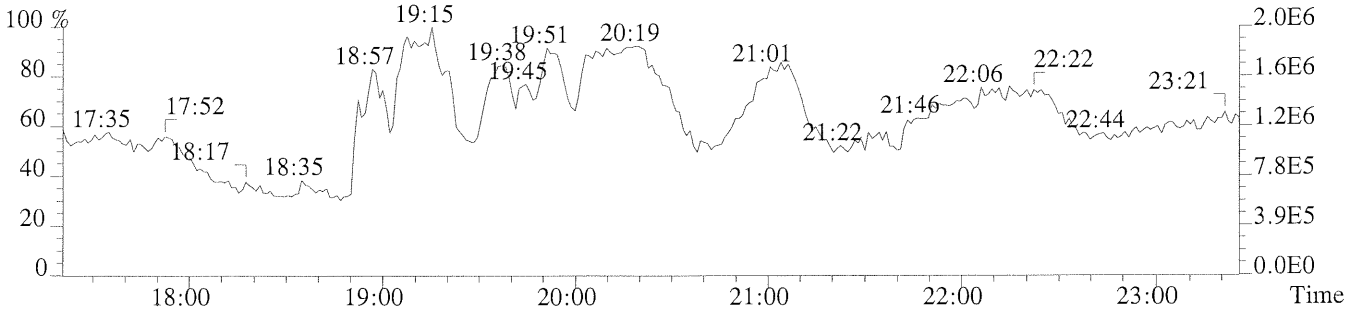
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7328.0,1.00%,F,T)



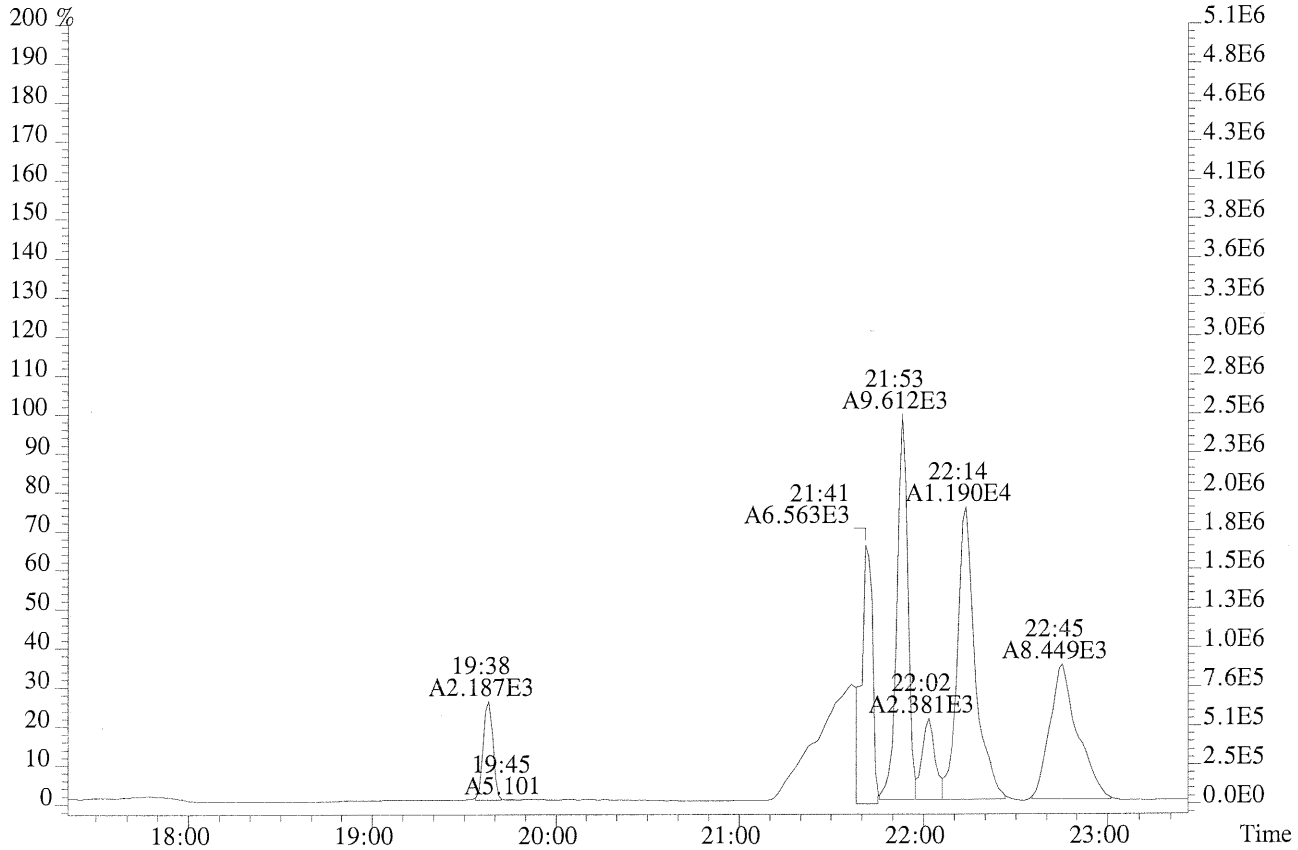
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,31760.0,1.00%,F,T)



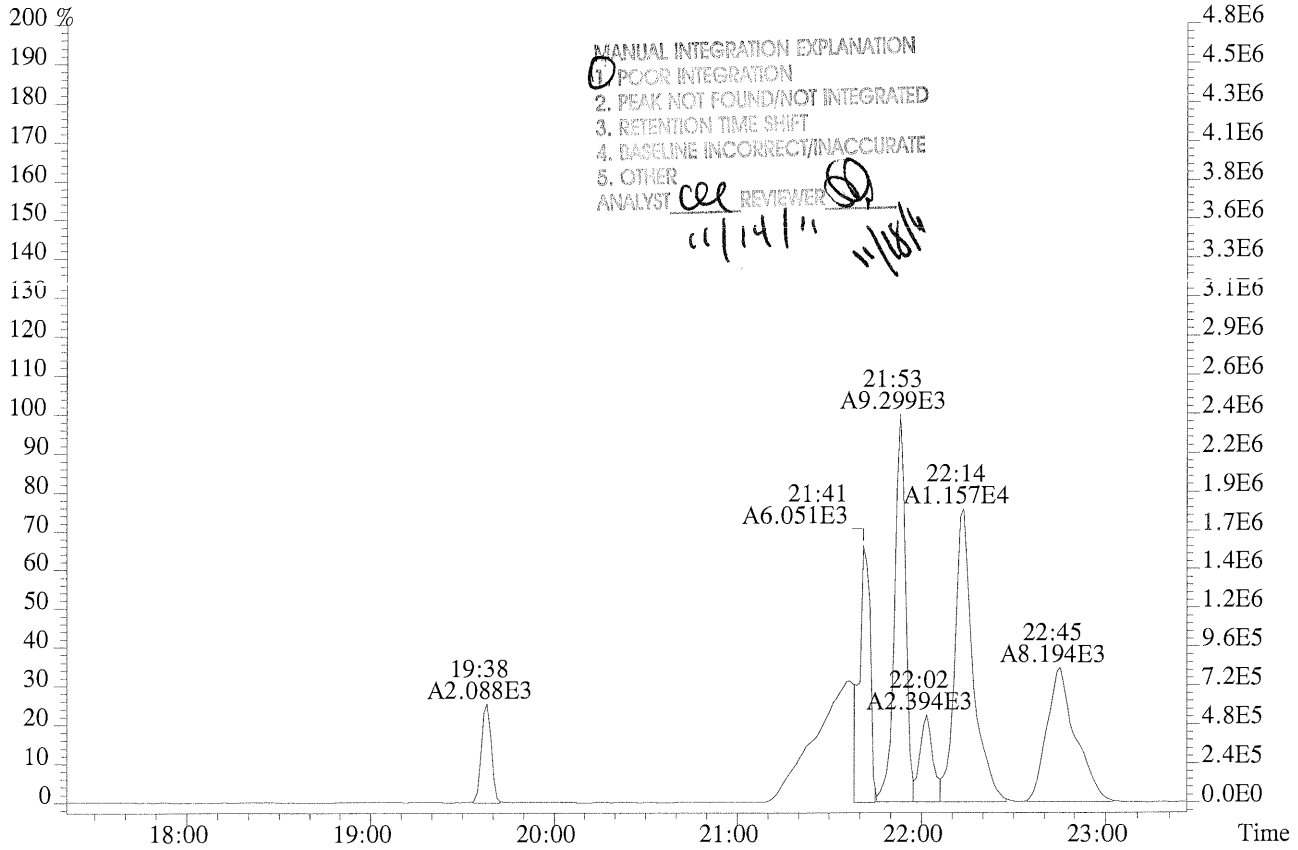
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



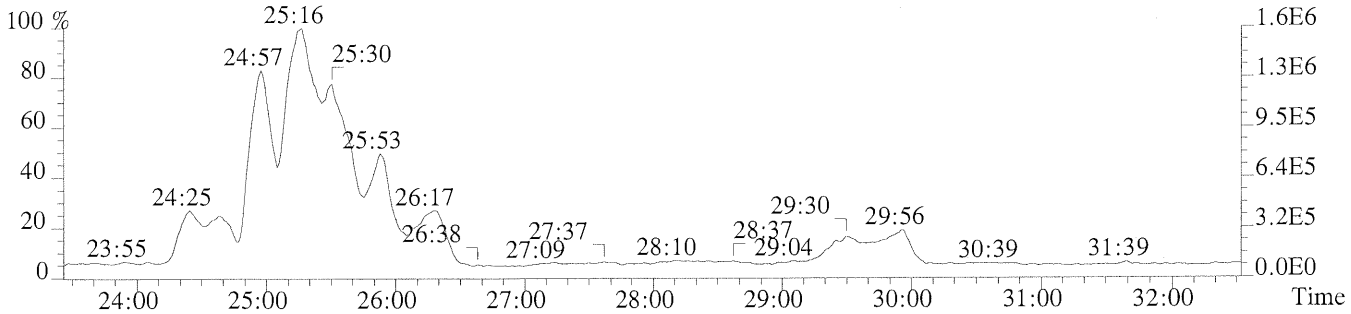
File:U142067 #1-336 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,34036.0,1.00%,F,T)



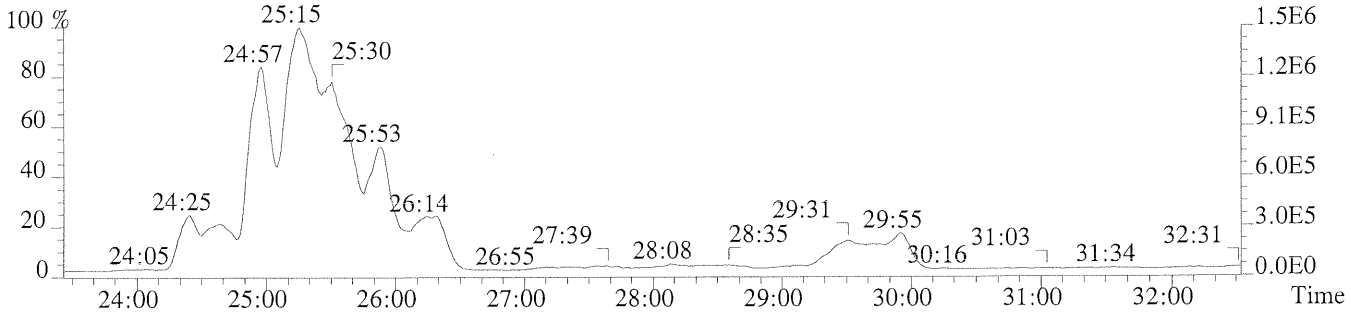
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1600.0,1.00%,F,T)



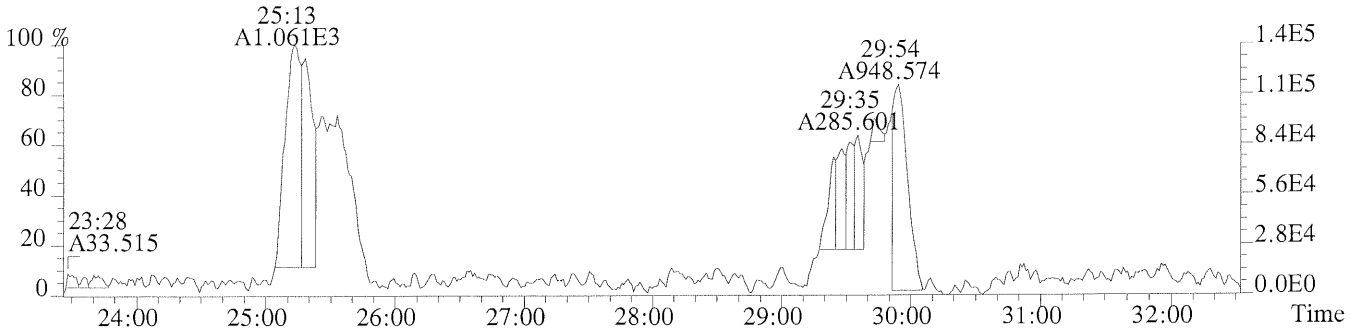
File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,987580.0,1.00%,F,T)



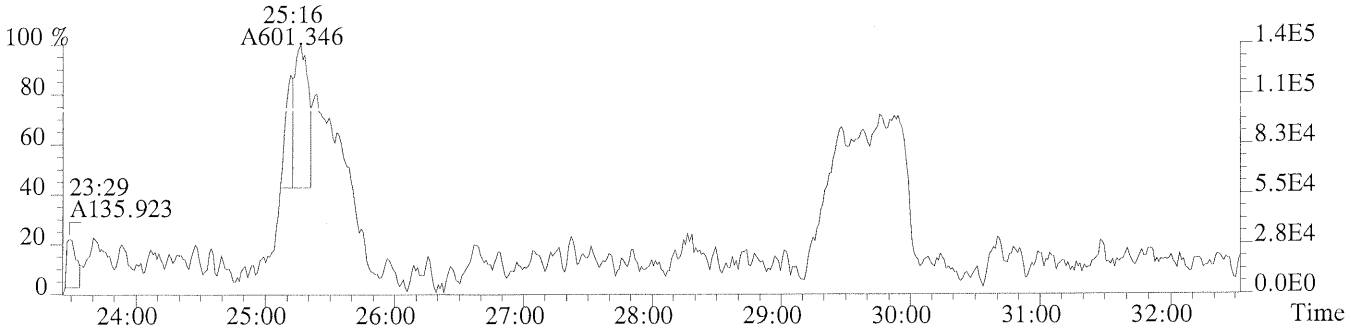
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,961708.0,1.00%,F,T)



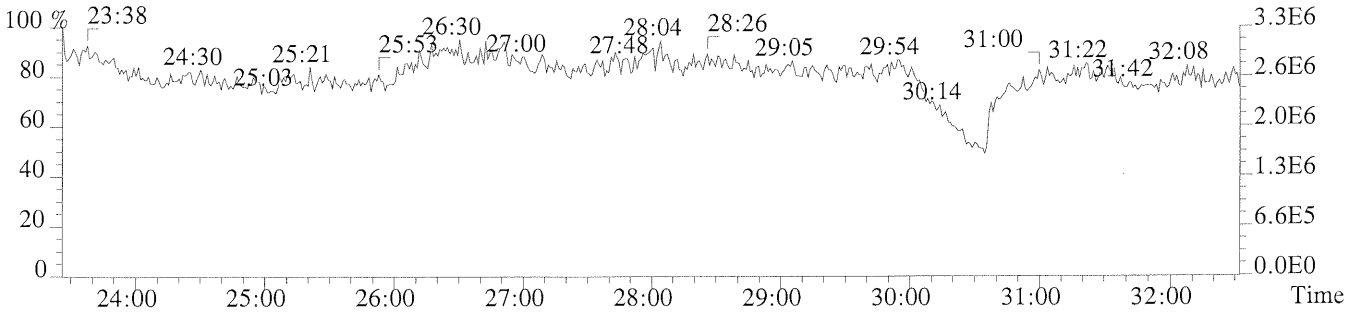
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10760.0,1.00%,F,T)



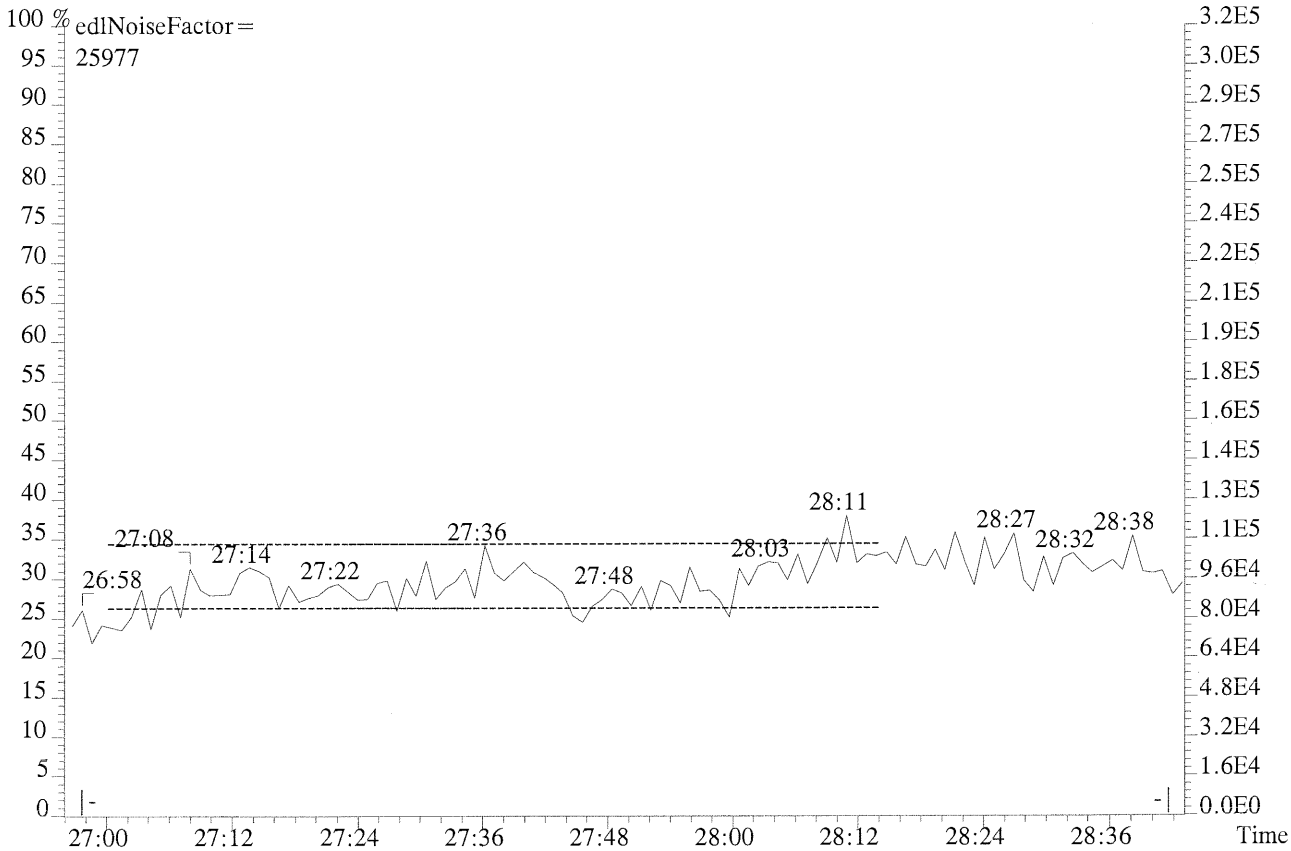
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23344.0,1.00%,F,T)



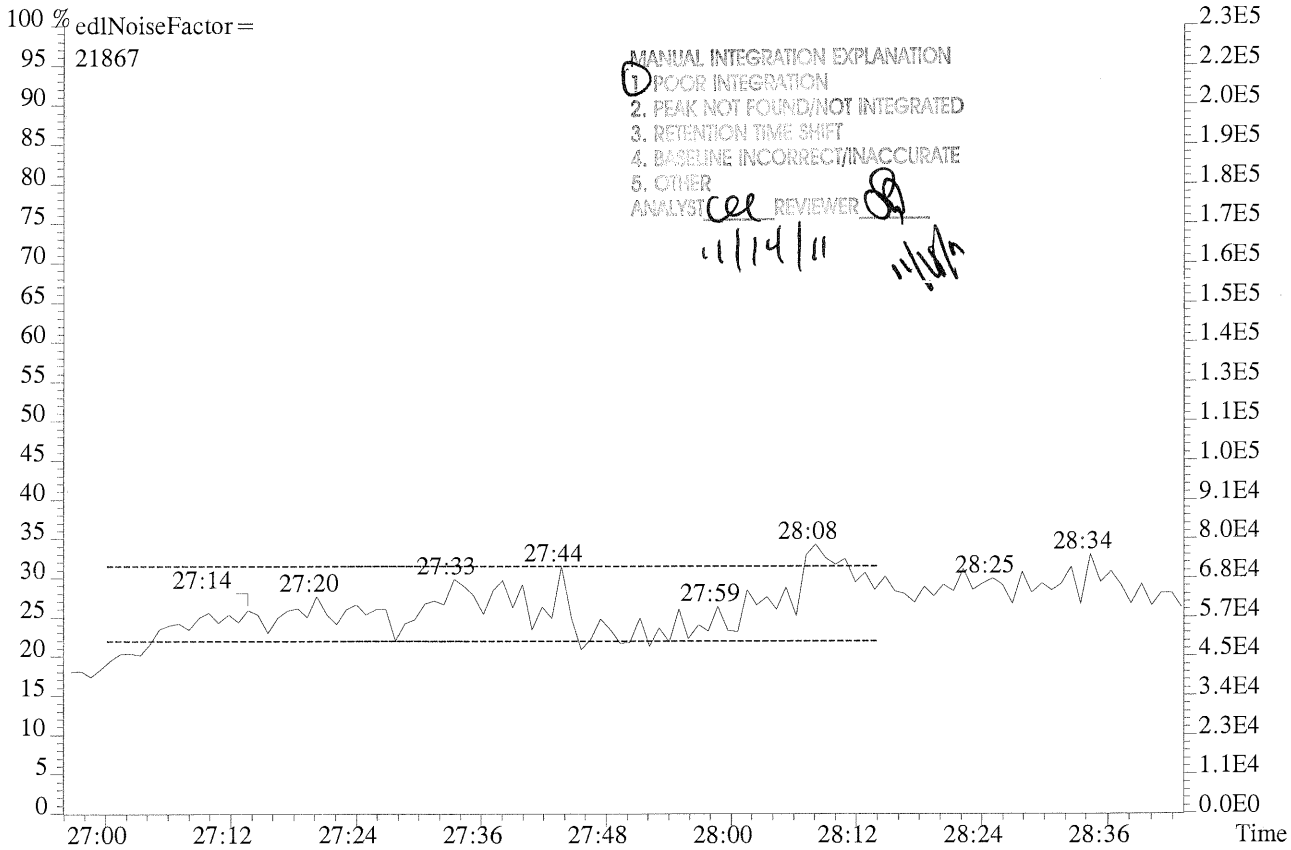
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
255.9613 F:3

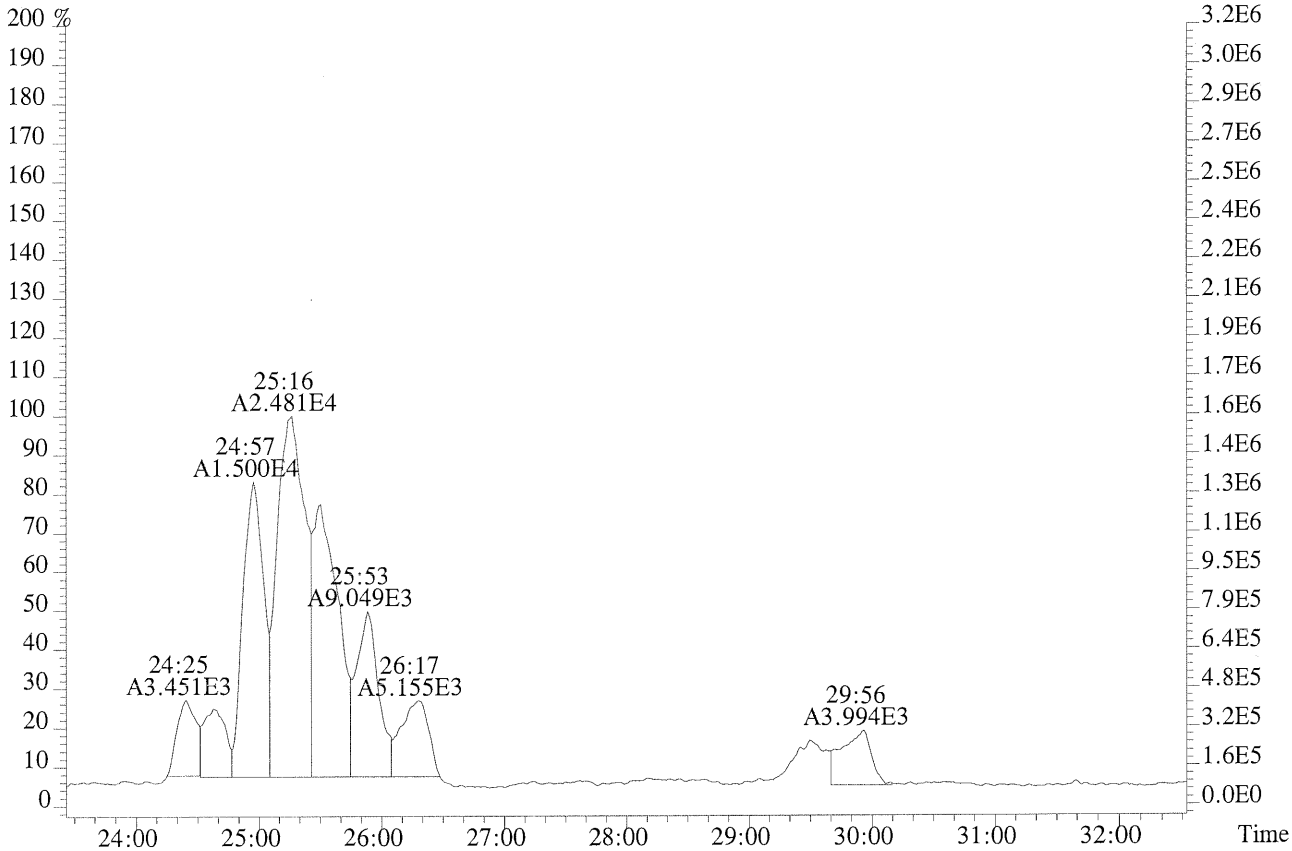


257.9584 F:3

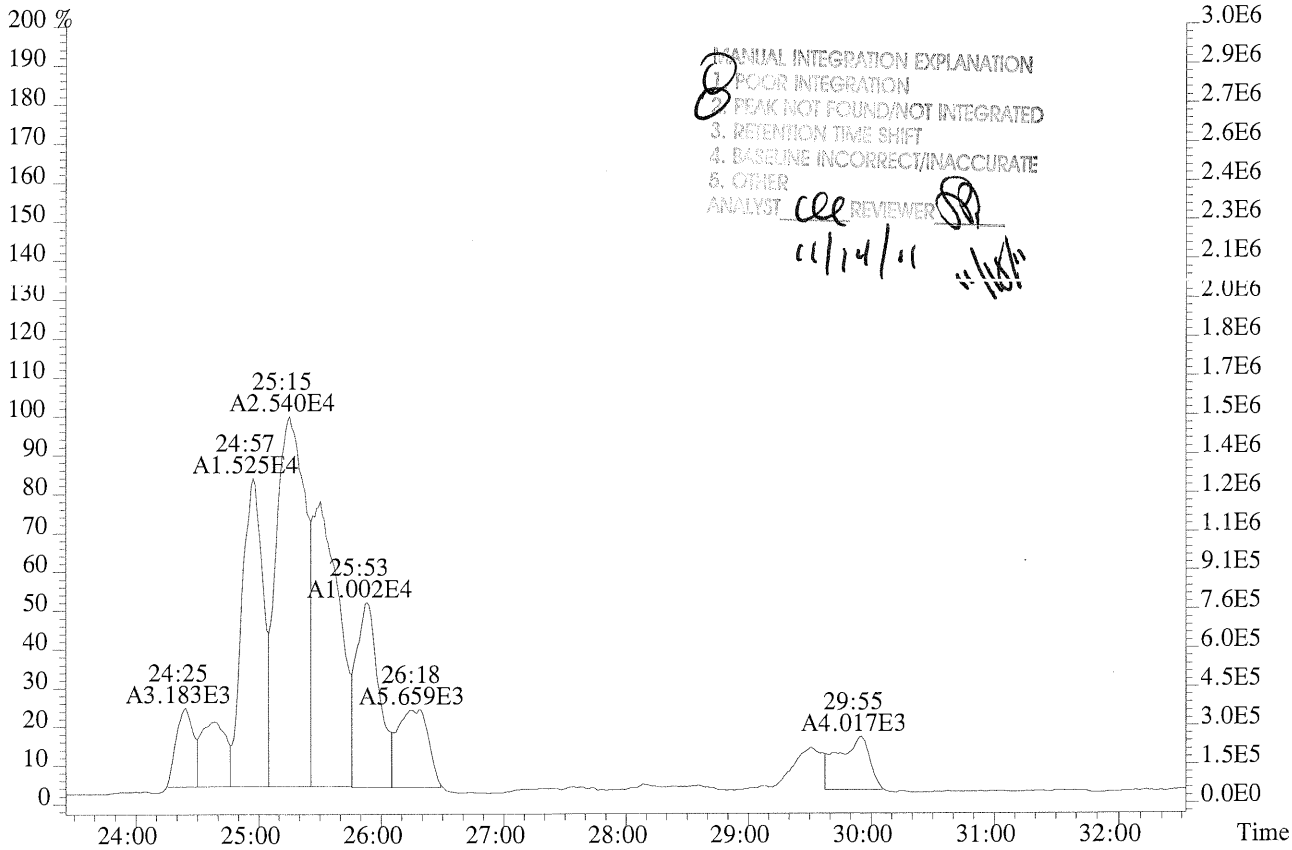


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CEL REVIEWER
11/14/11 11/18/11

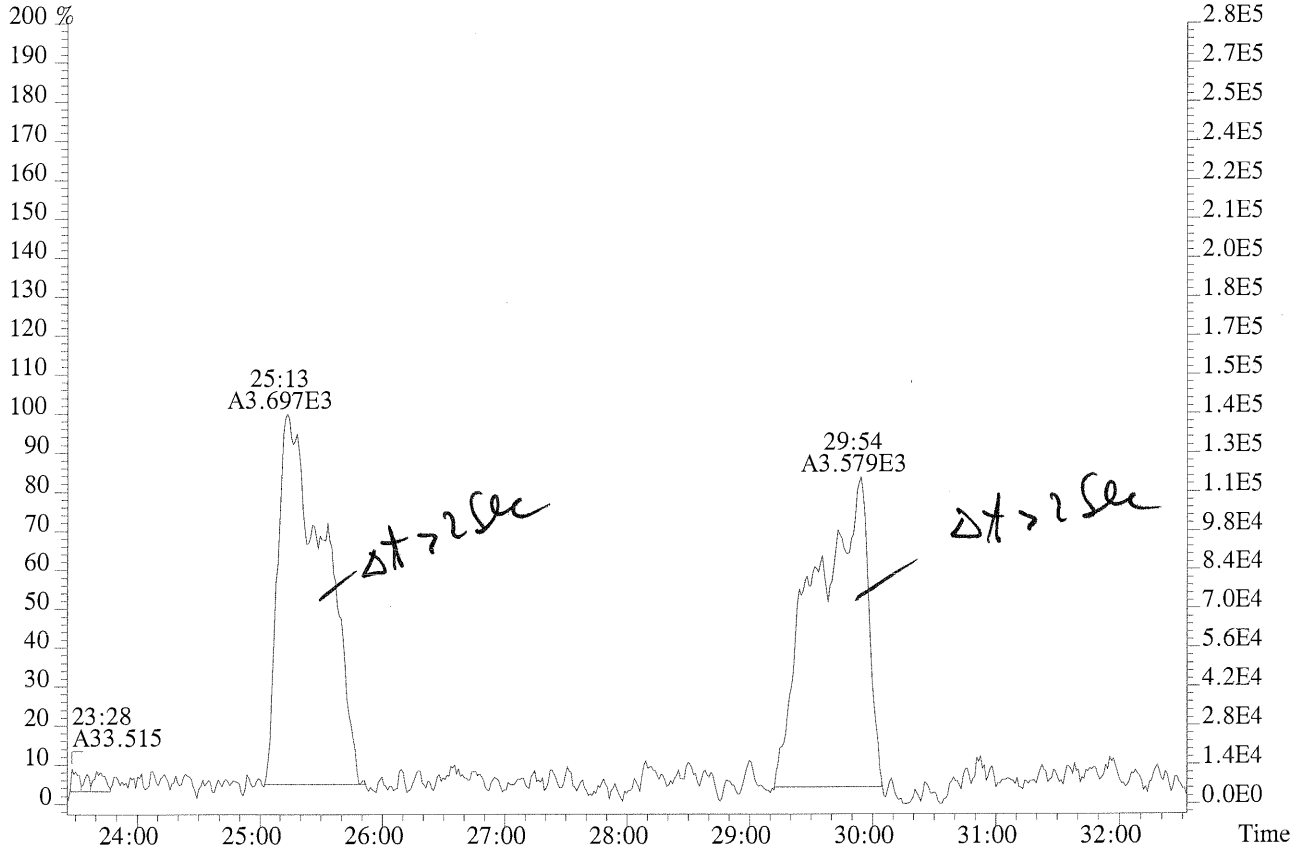
File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,25977.0,1.00%,F,T)



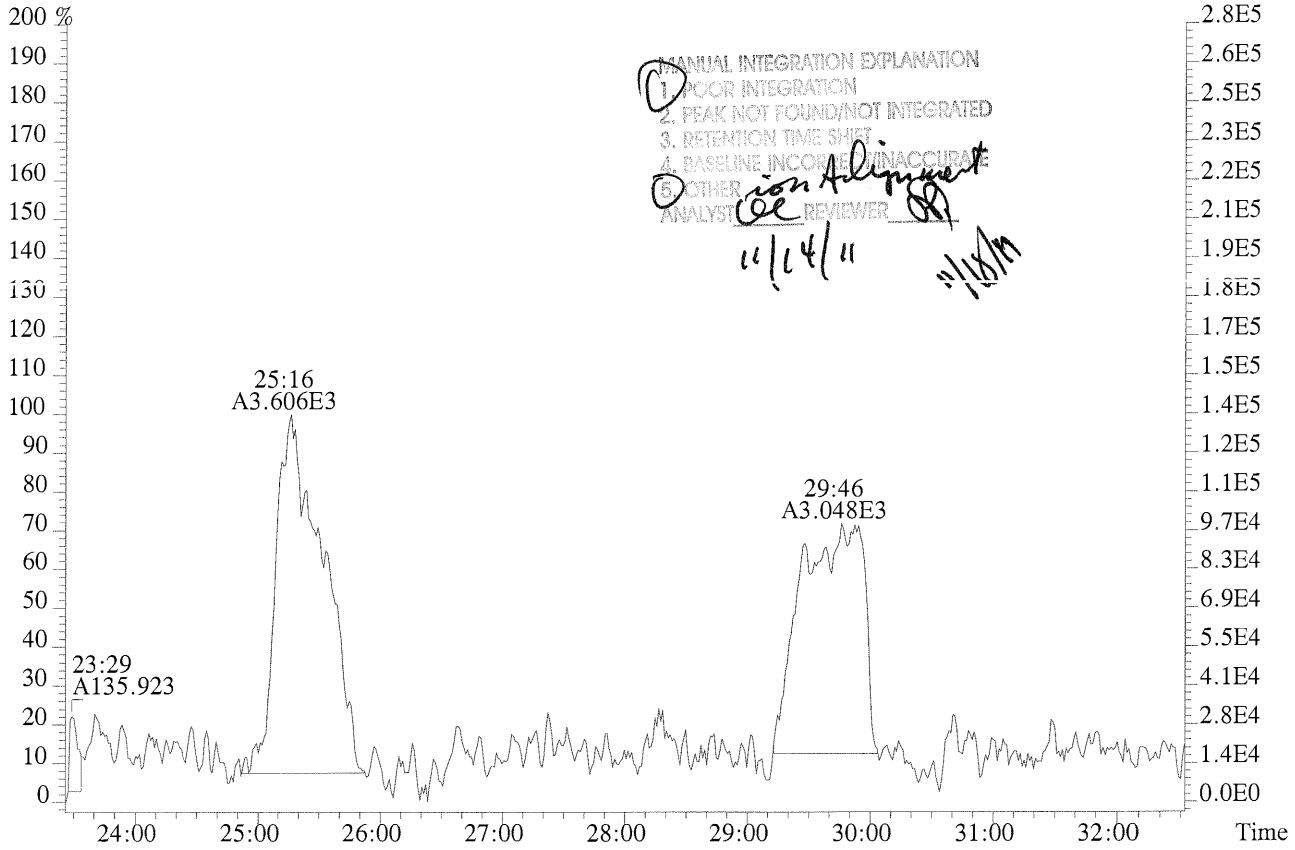
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,21867.0,1.00%,F,T)



File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10760.0,1.00%,F,T)

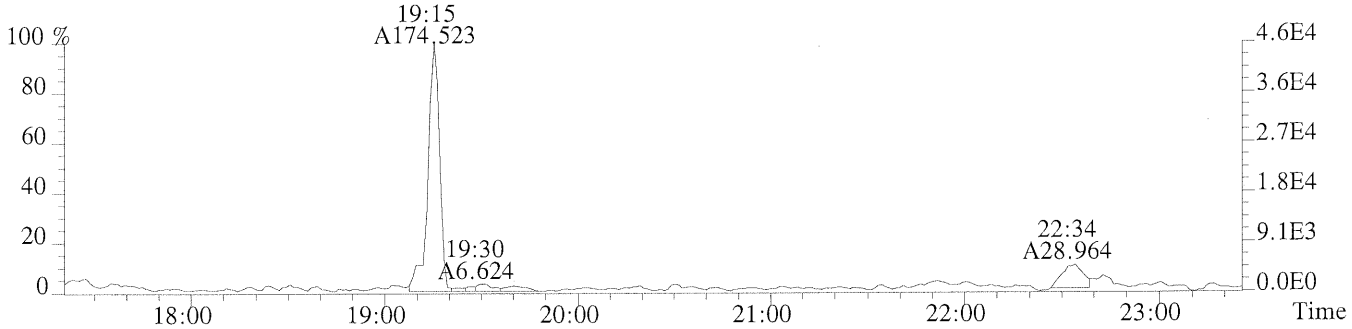


269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23344.0,1.00%,F,T)

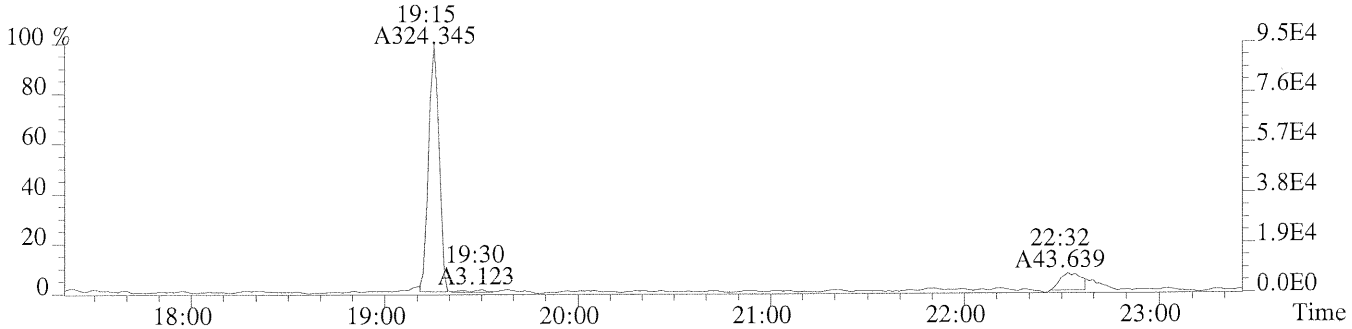


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER ion Alignment
ANALYST CC REVIEWER
11/14/11 11/18/11

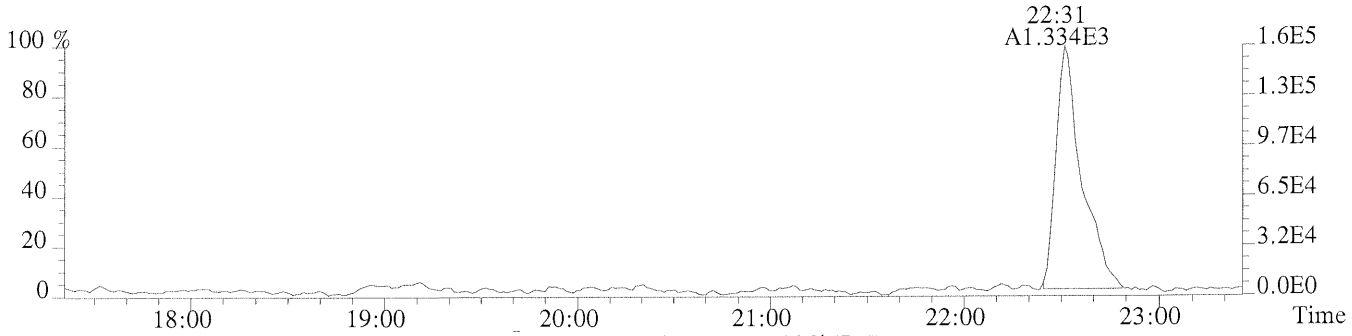
File:U142067 #1-336 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1072.0,1.00%,F,T)



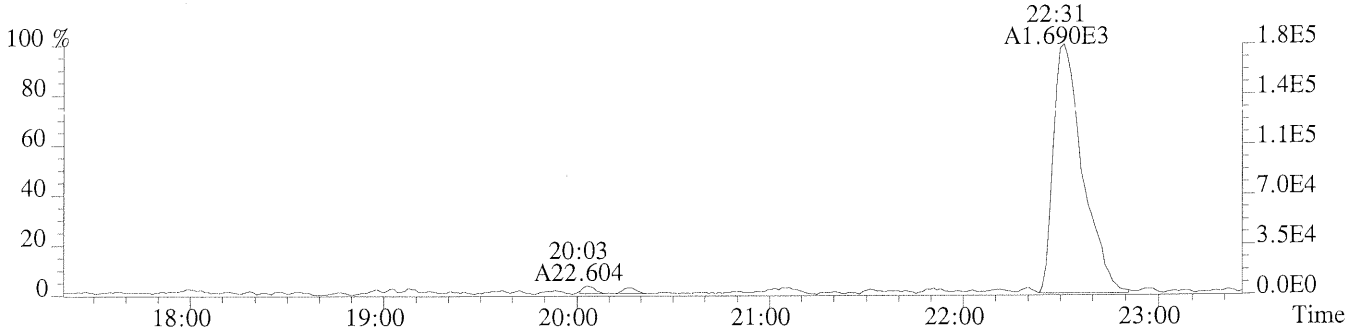
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1160.0,1.00%,F,T)



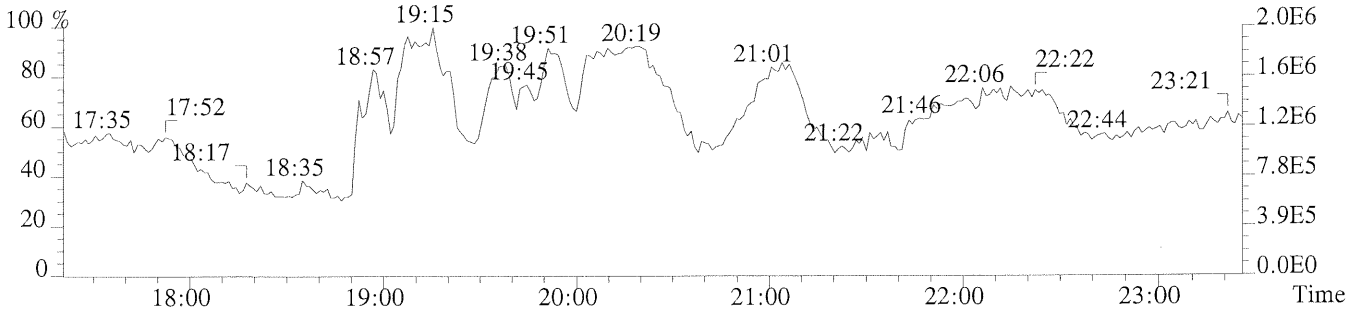
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5268.0,1.00%,F,T)



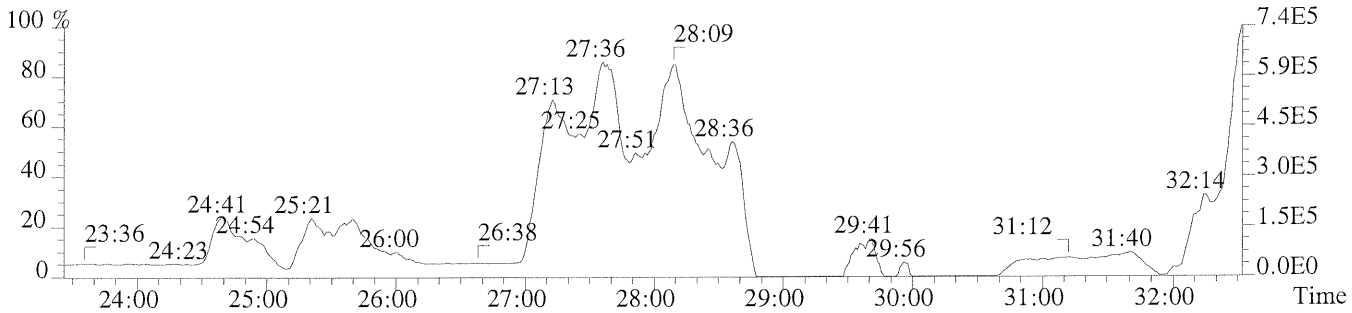
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2956.0,1.00%,F,T)



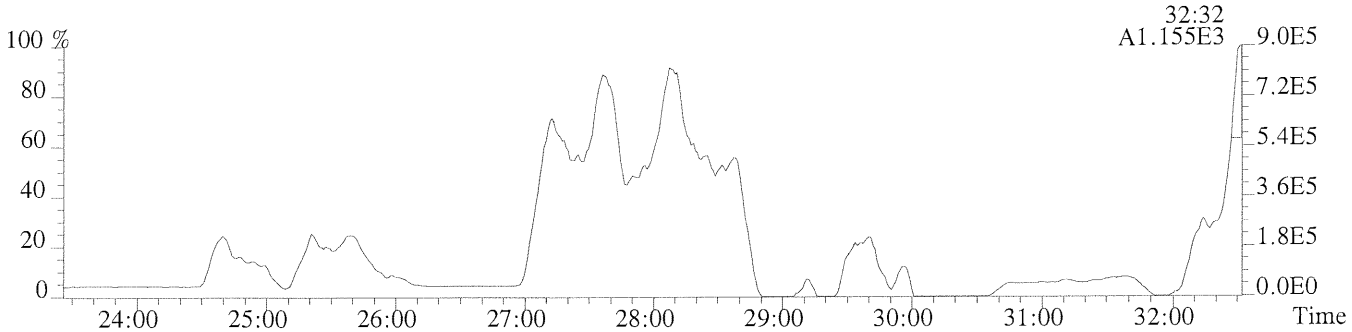
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



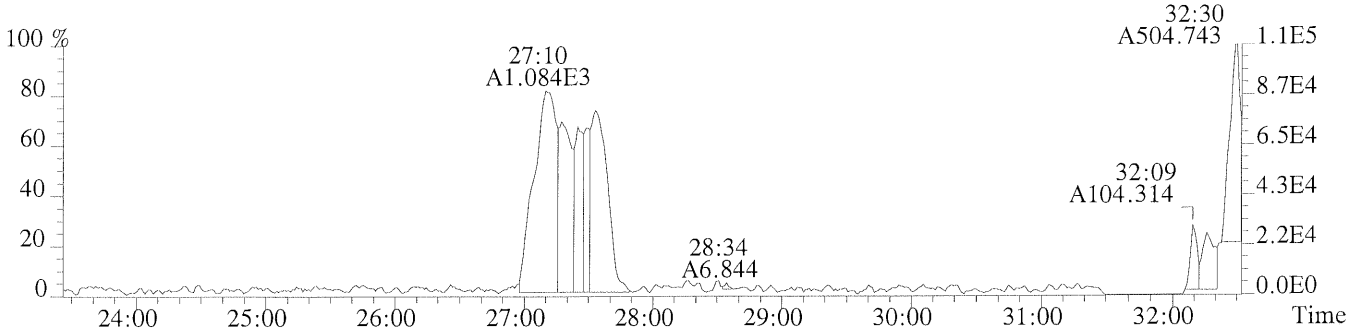
File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,141820.0,1.00%,F,T)



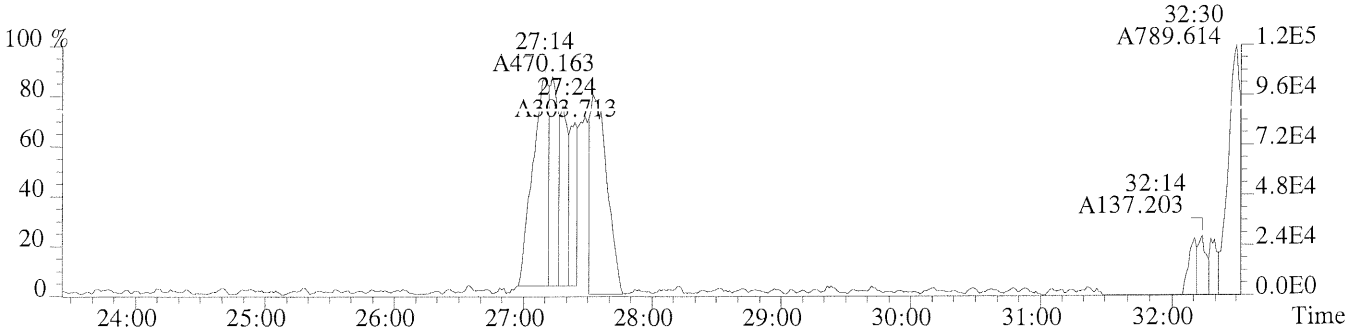
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,182972.0,1.00%,F,T)



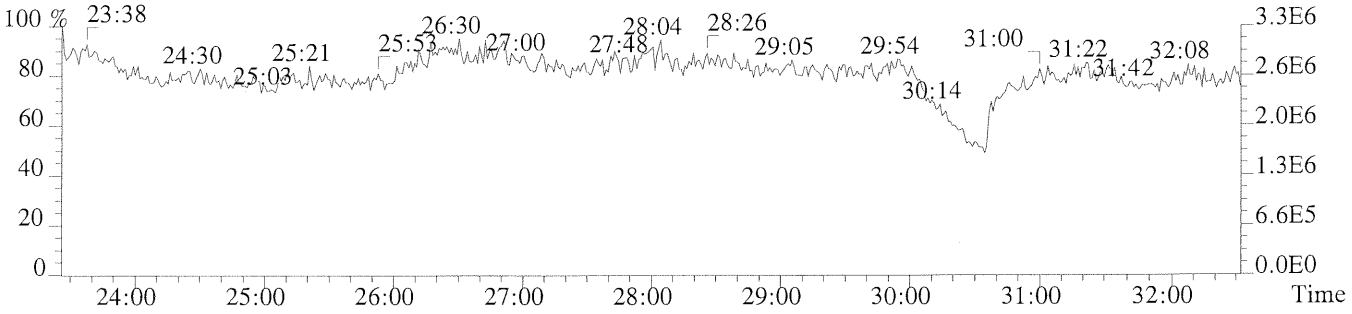
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3664.0,1.00%,F,T)



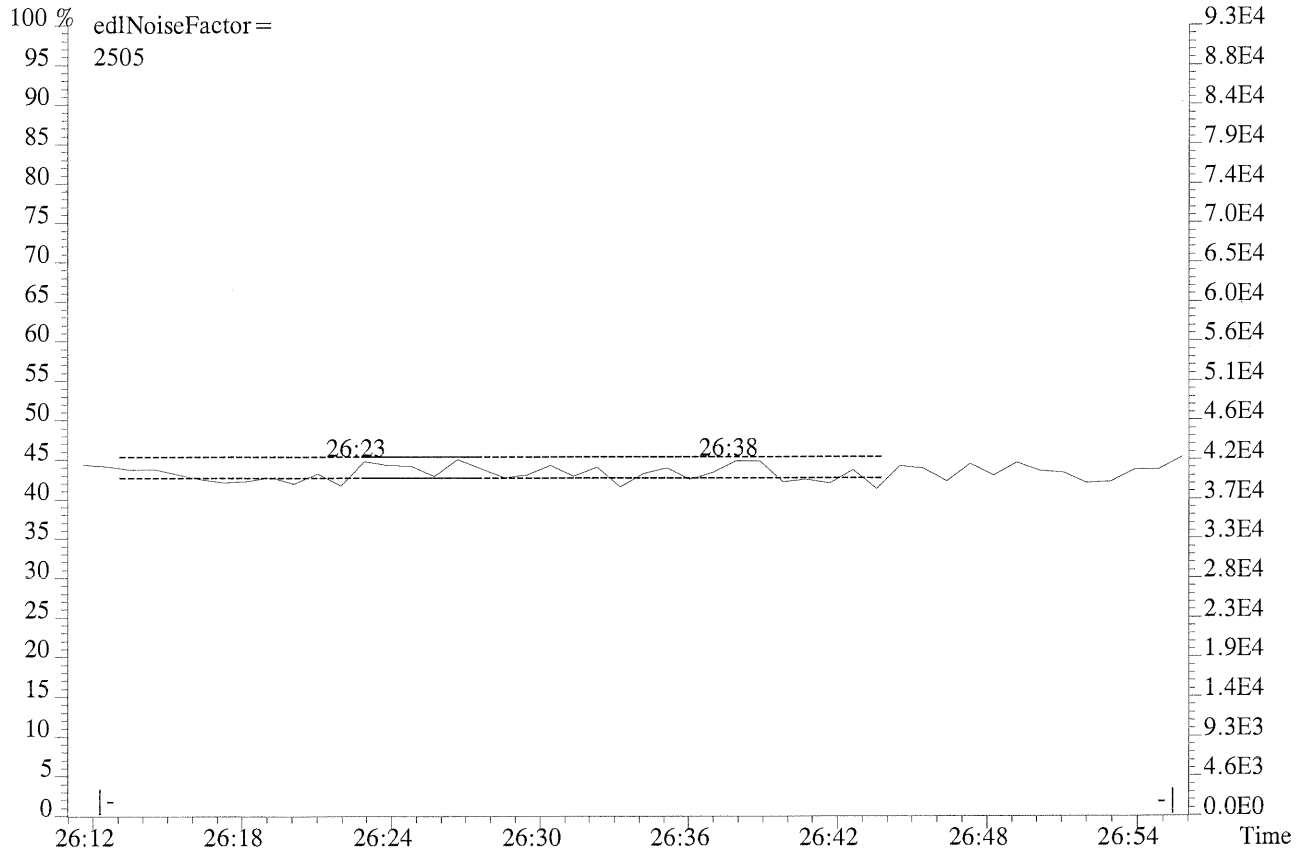
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2788.0,1.00%,F,T)



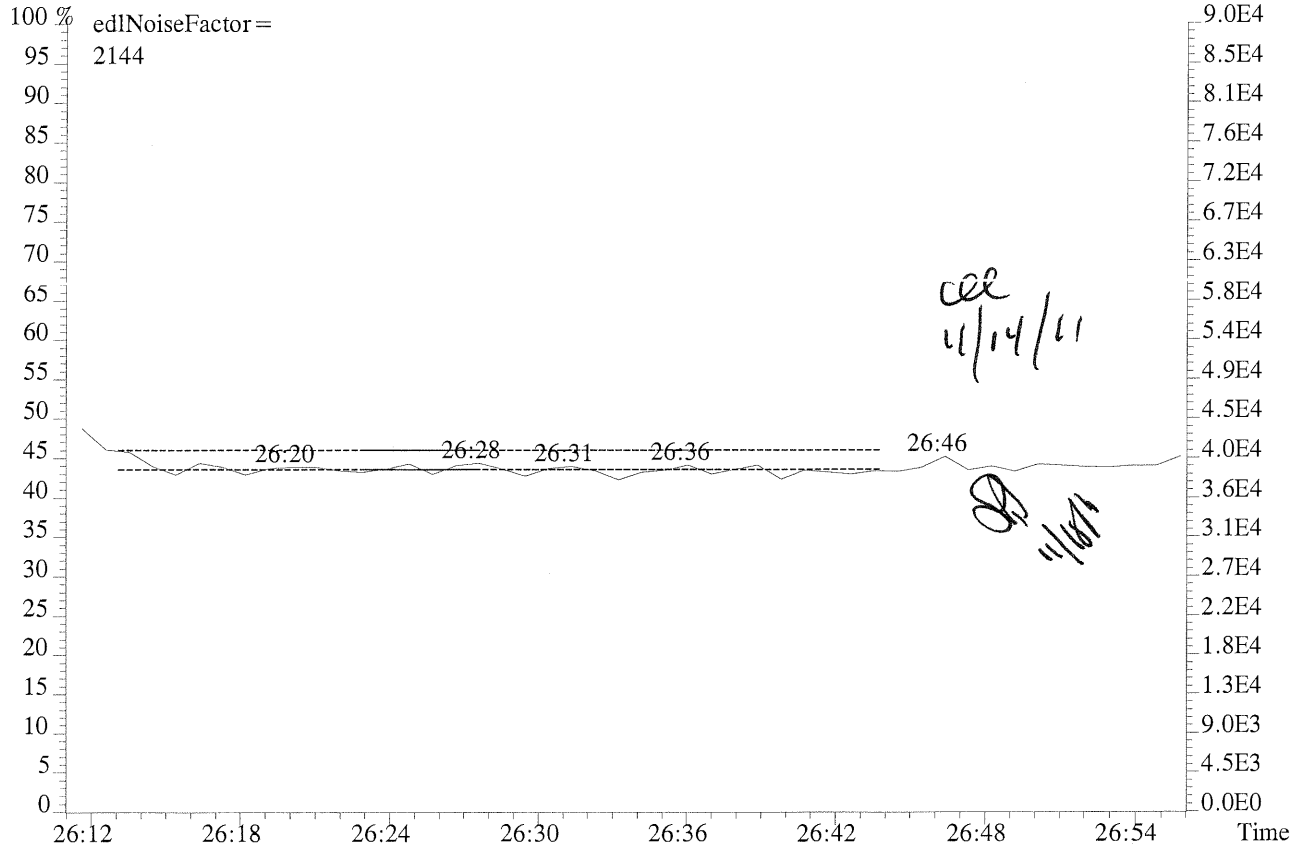
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
289.9224 F:3

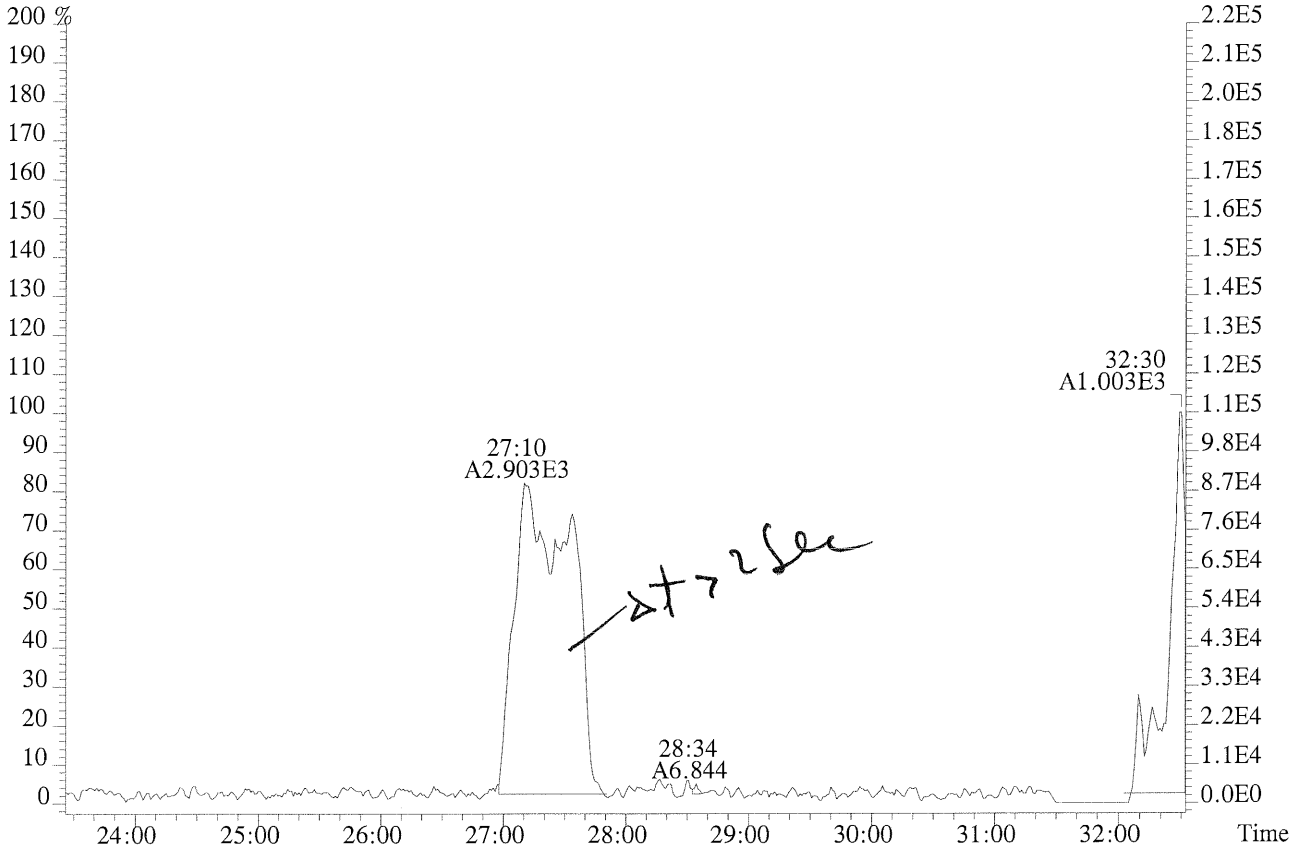


291.9194 F:3

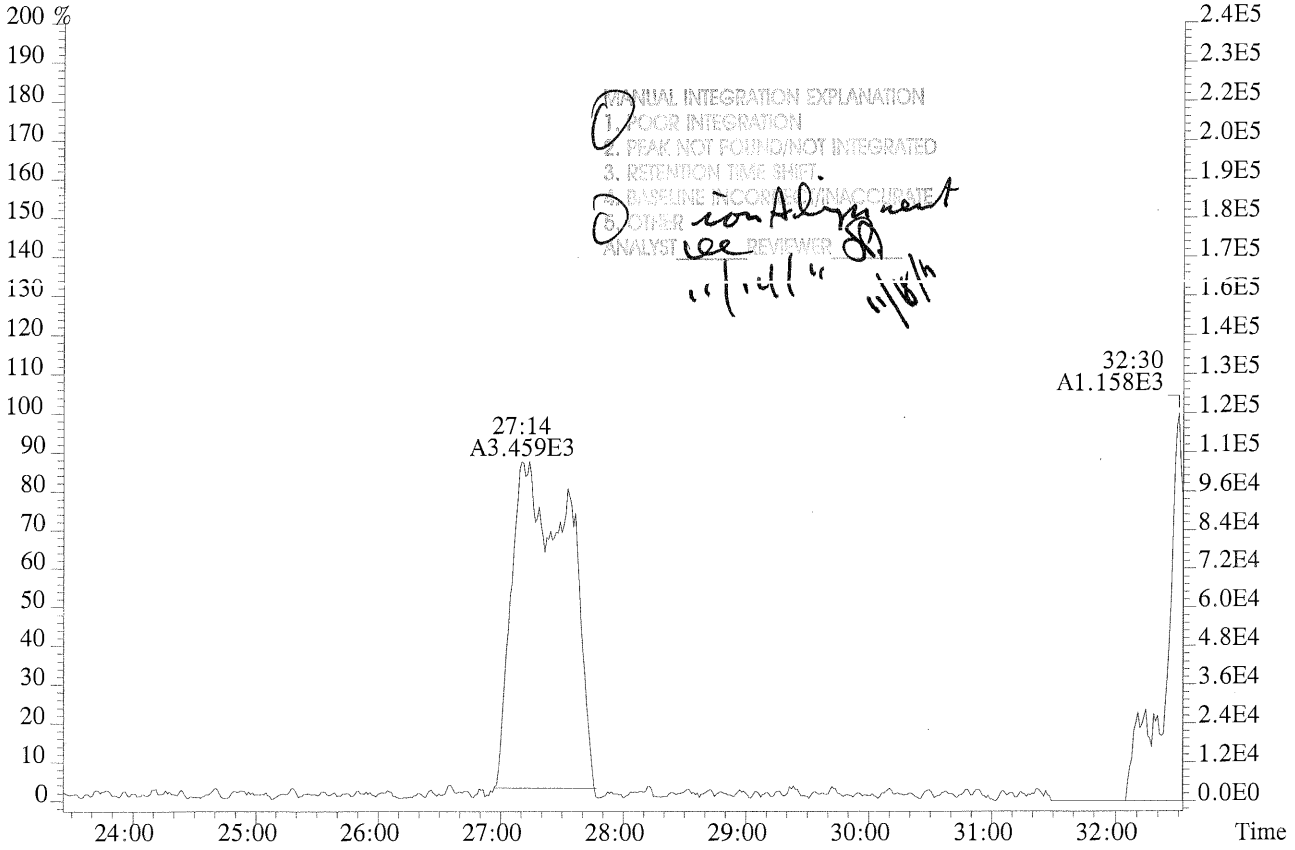


cee
11/14/11

File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3664.0,1.00%,F,T)

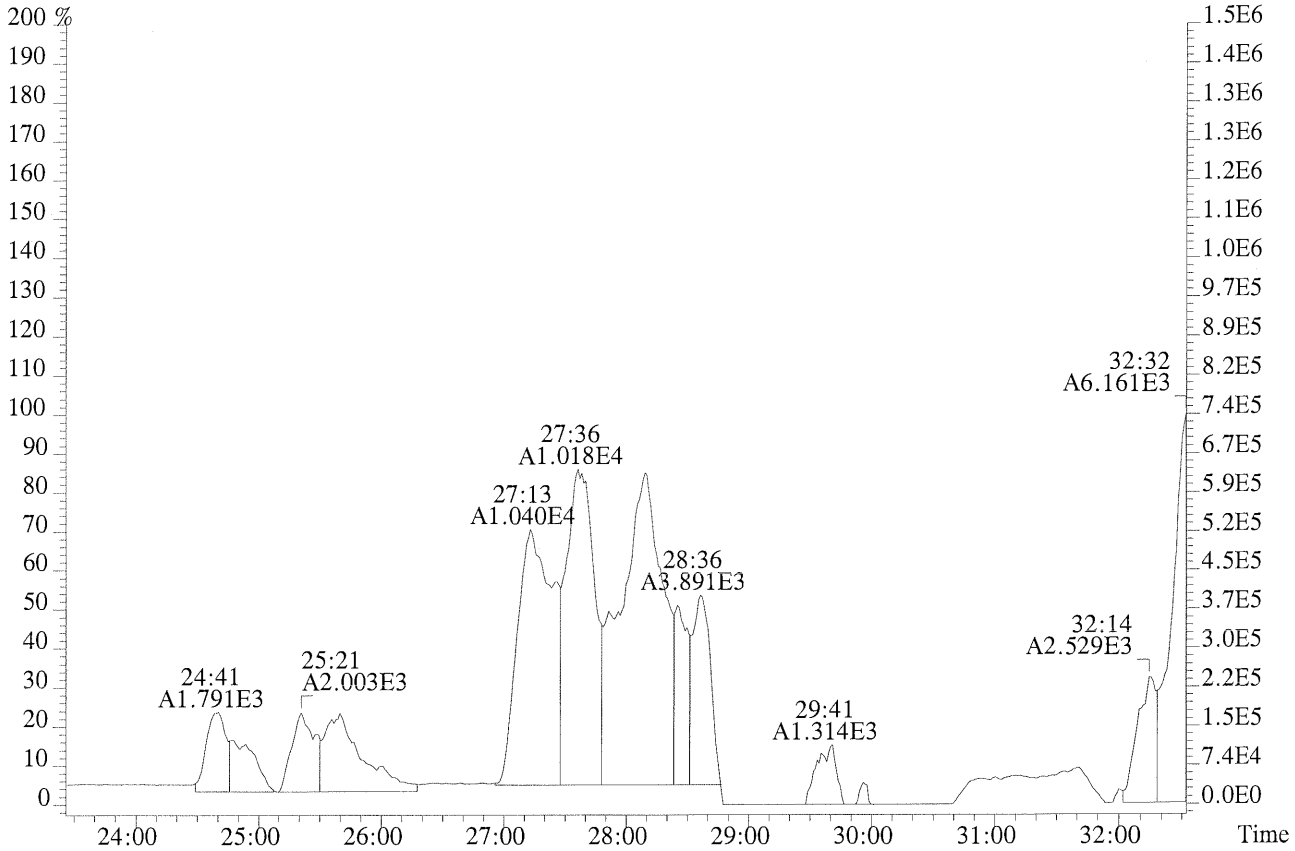


303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2788.0,1.00%,F,T)

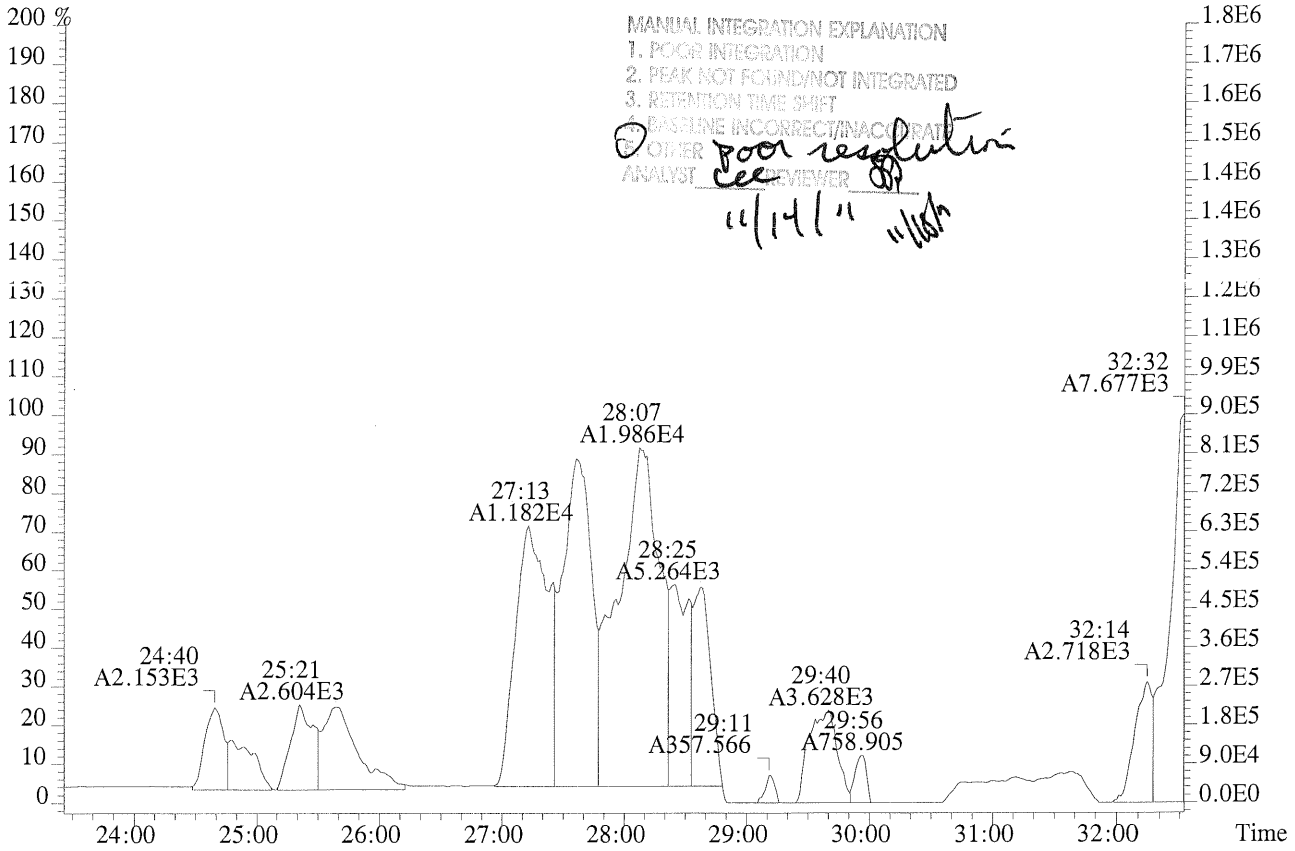


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE POOR/INACCURATE
5. OTHER non Alignment
ANALYST lee REVIEWER SA
11/14/11 11/16/11

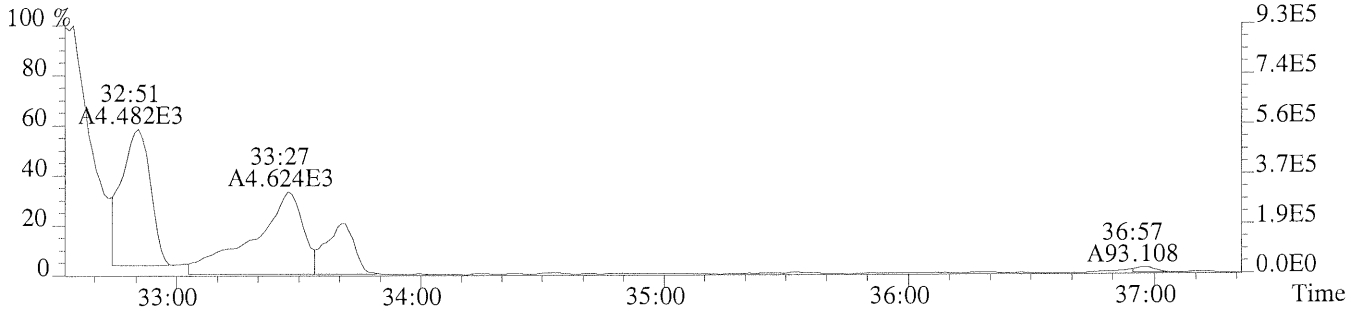
File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2505.0,1.00%,F,T)



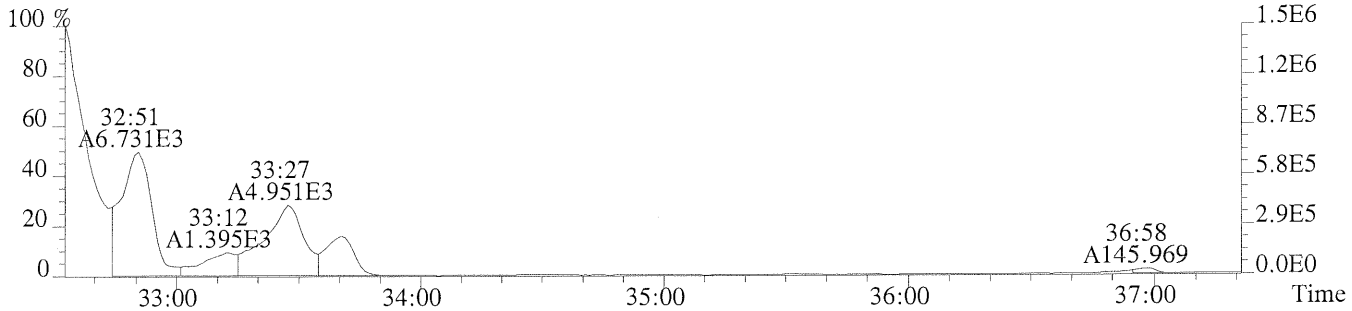
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2144.0,1.00%,F,T)



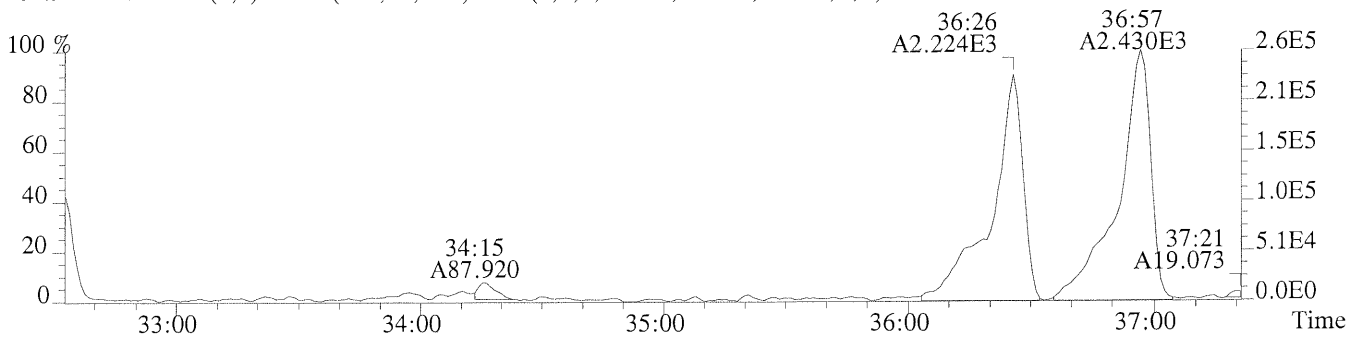
File:U142067 #1-308 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3804.0,1.00%,F,T)



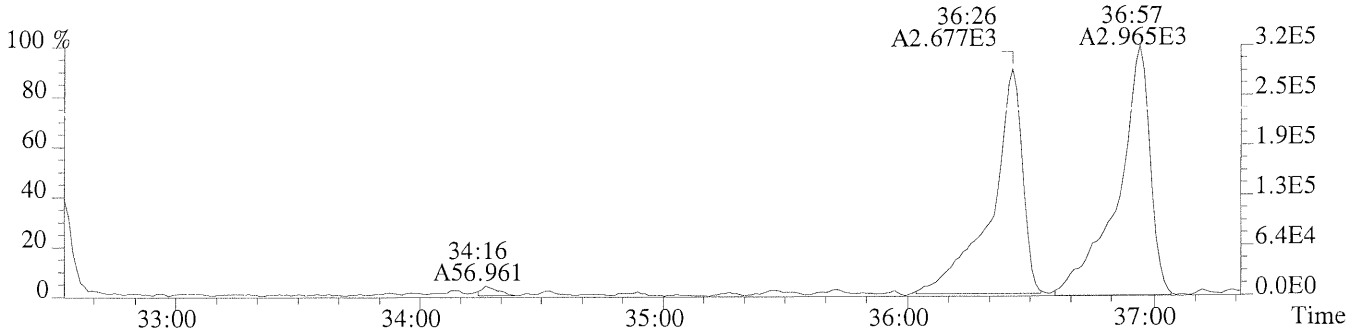
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4152.0,1.00%,F,T)



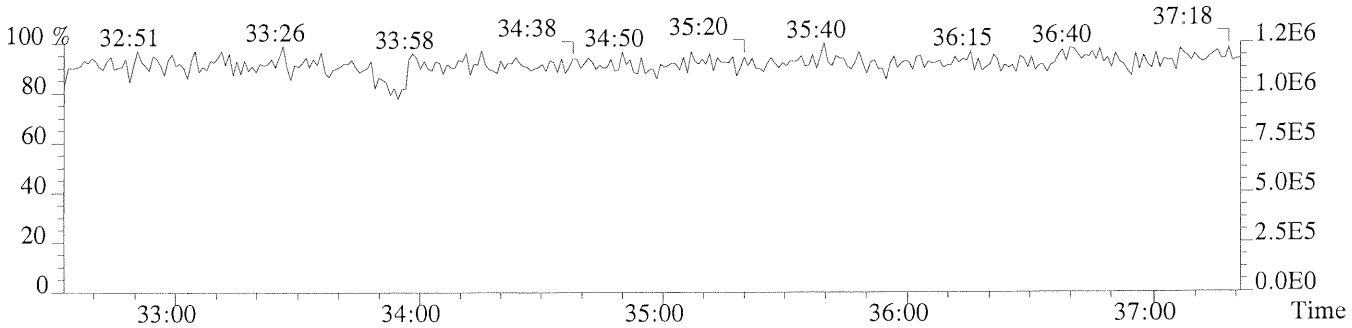
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3532.0,1.00%,F,T)



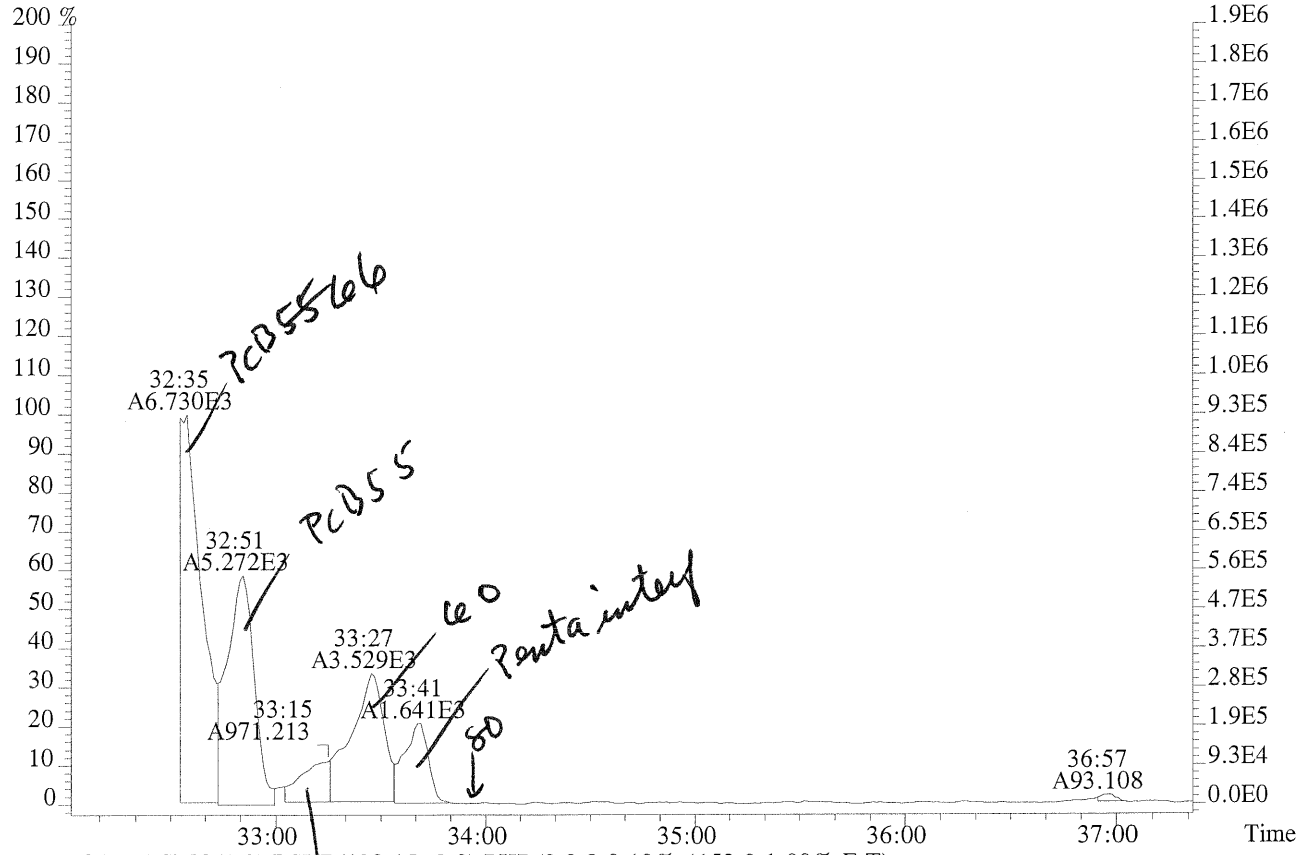
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4308.0,1.00%,F,T)



330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

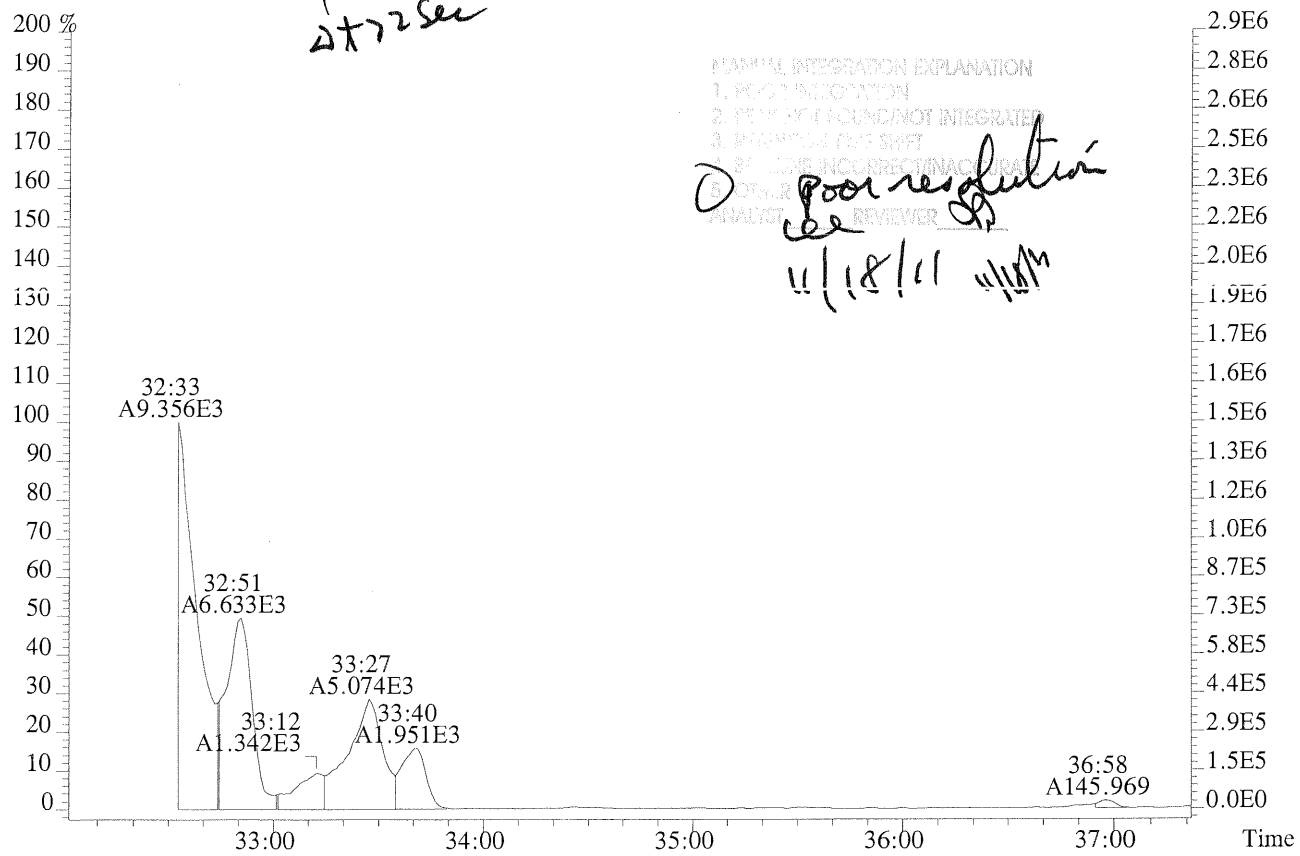


File:U142067 #1-308 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3804.0,1.00%,F,T)

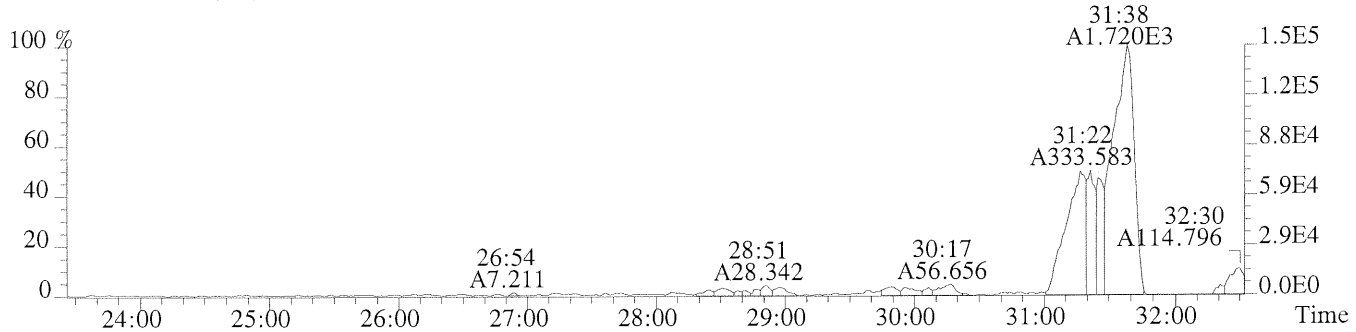


291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4152.0,1.00%,F,T)

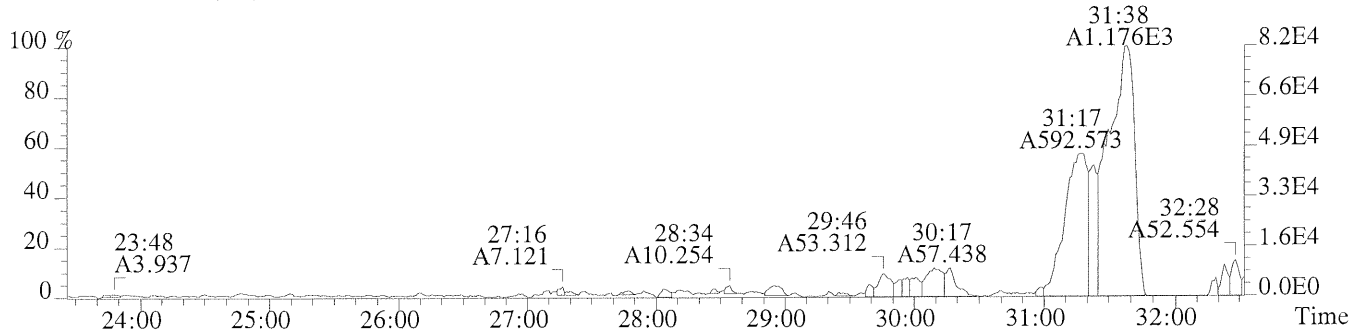
Δt>2sec



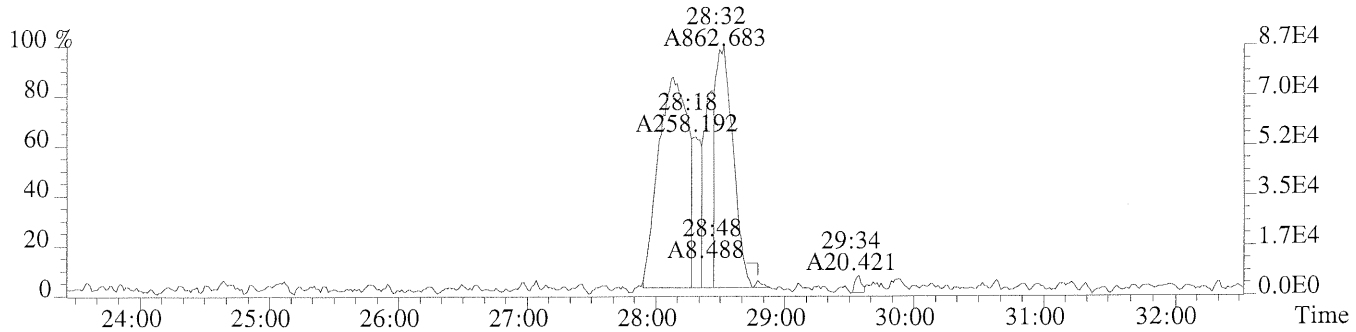
File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)



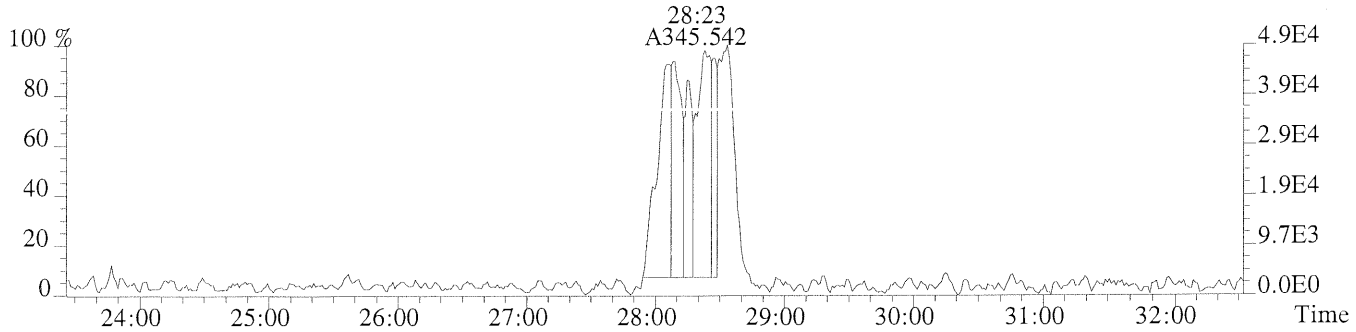
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



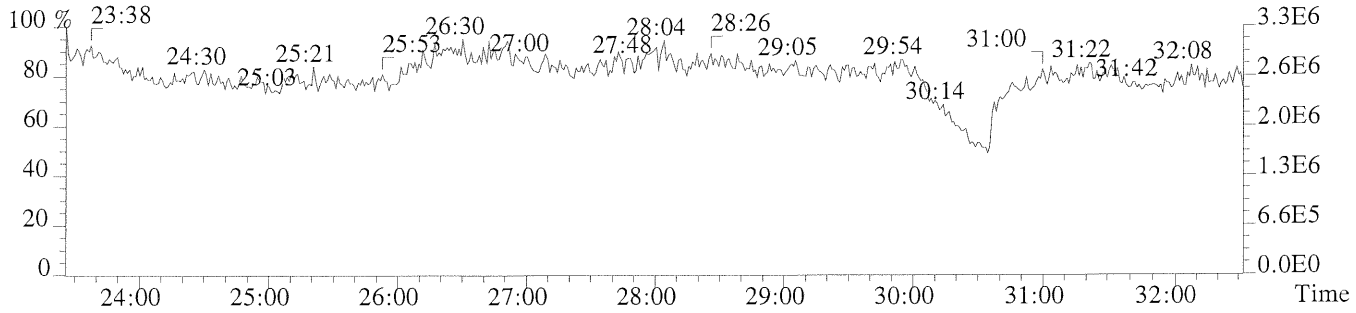
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3636.0,1.00%,F,T)



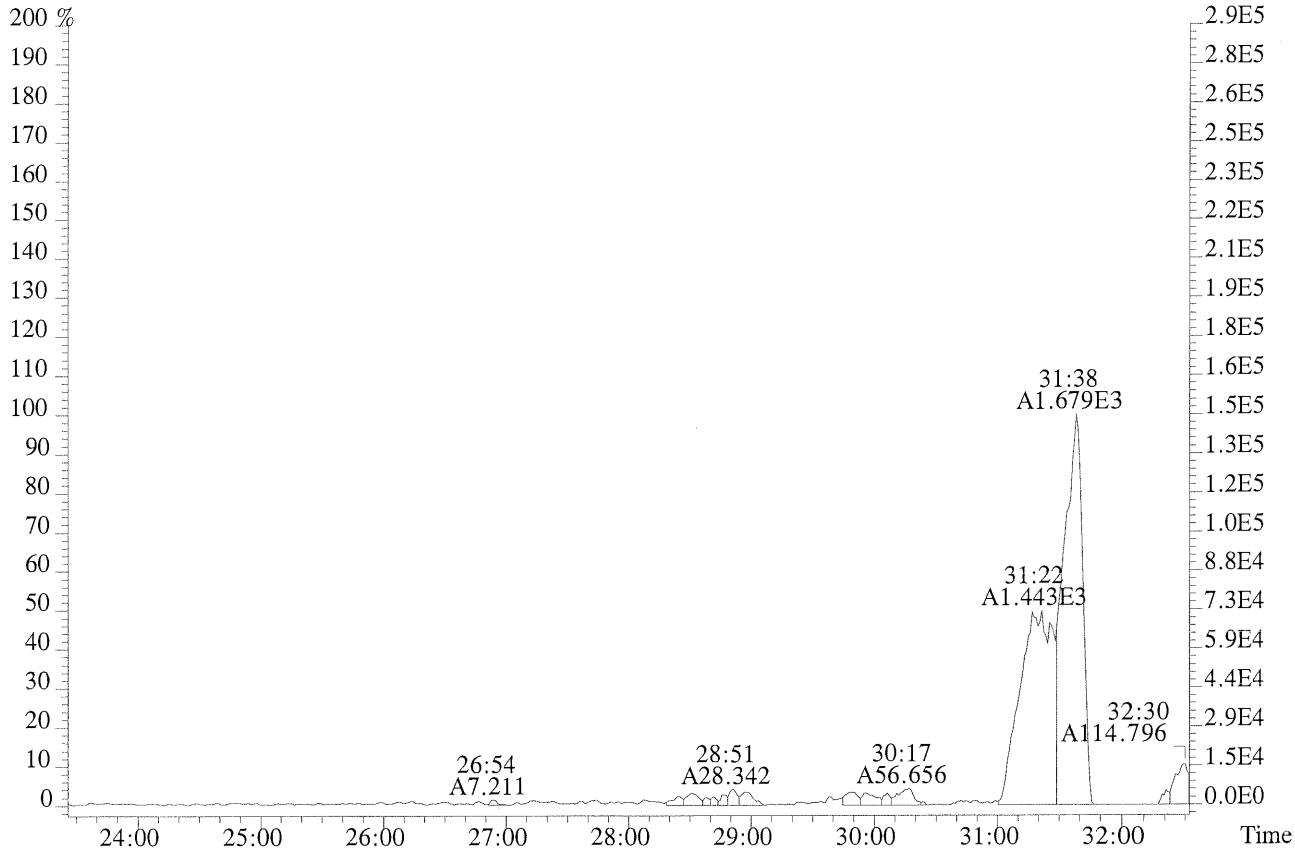
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2340.0,1.00%,F,T)



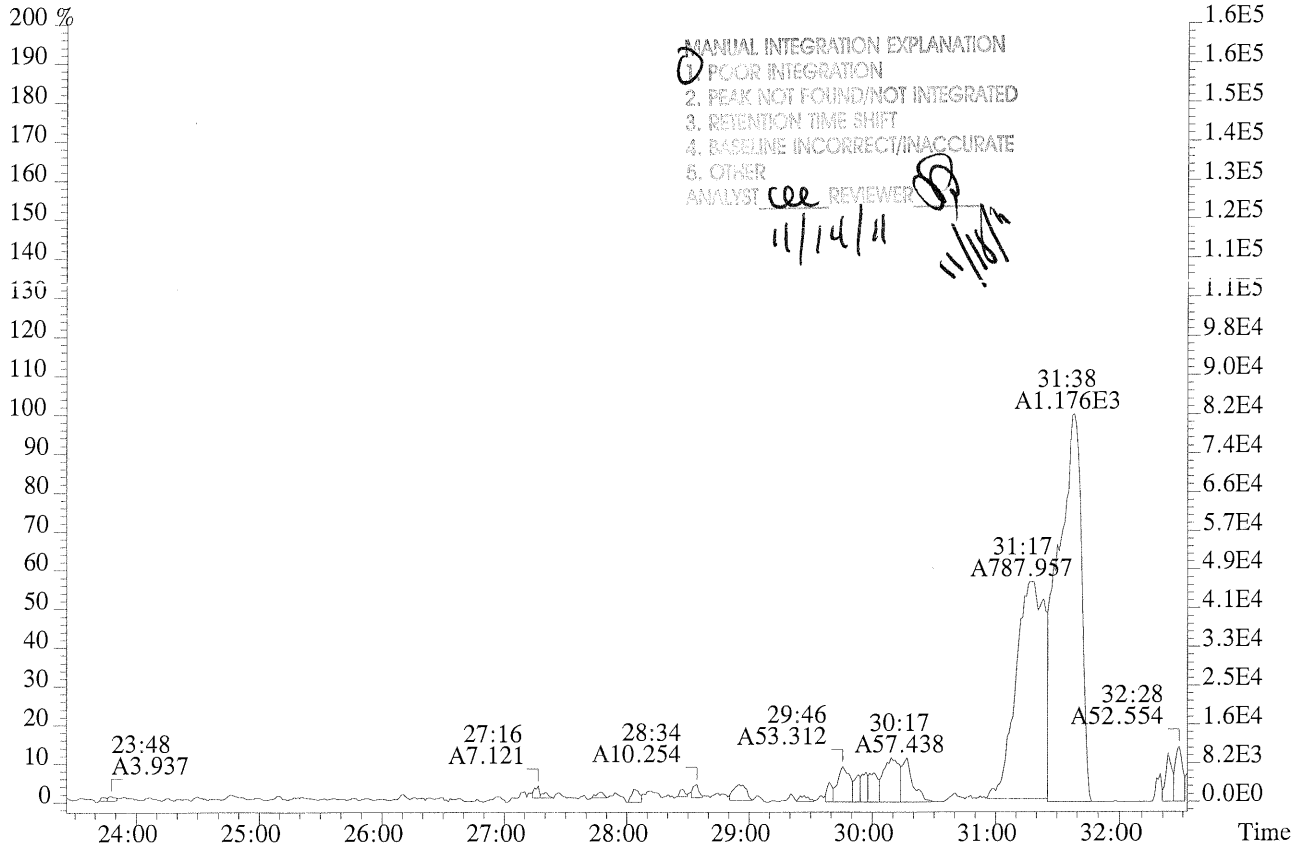
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



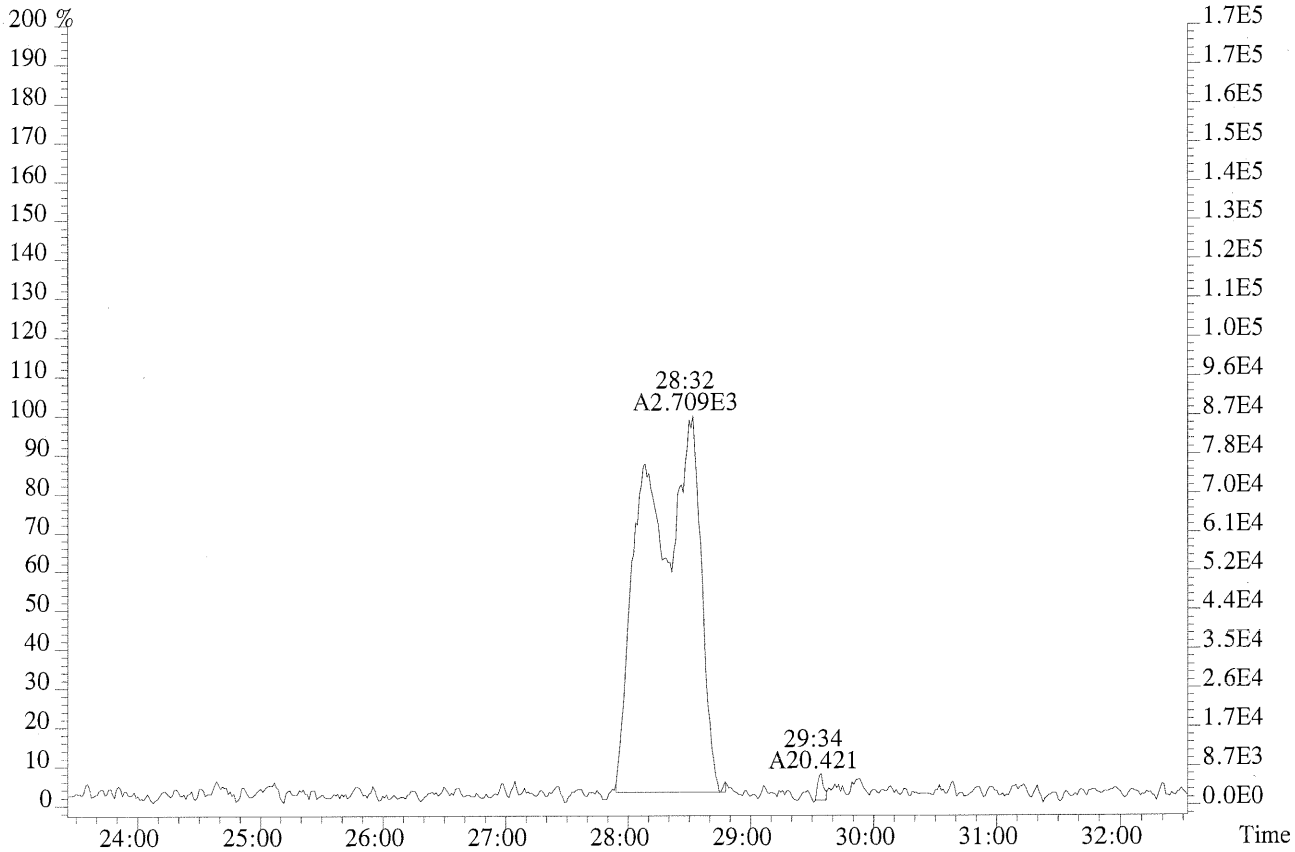
File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)



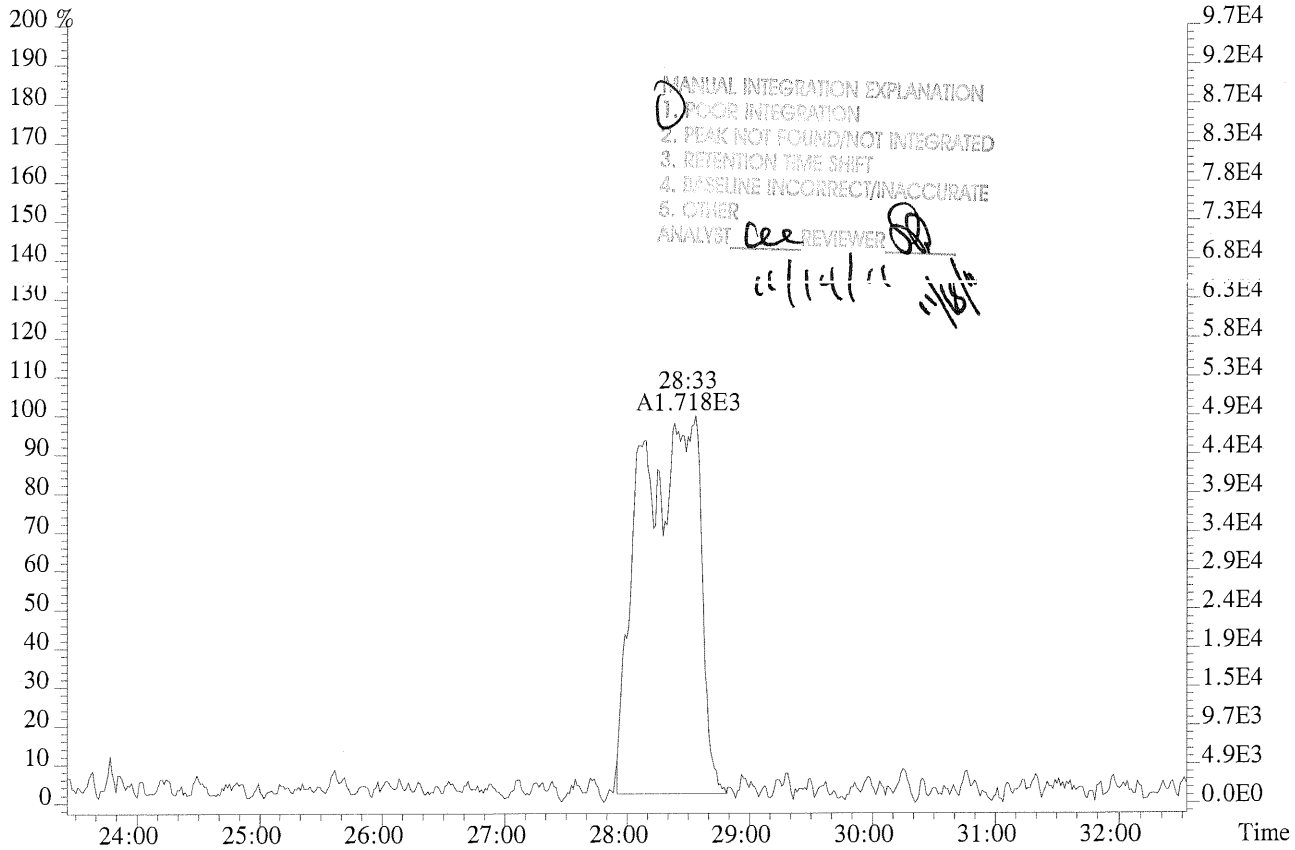
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3636.0,1.00%,F,T)

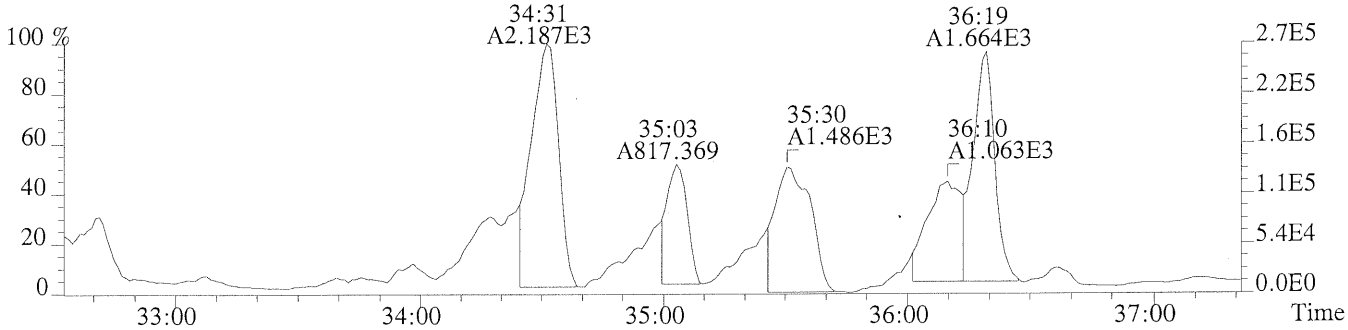


339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2340.0,1.00%,F,T)

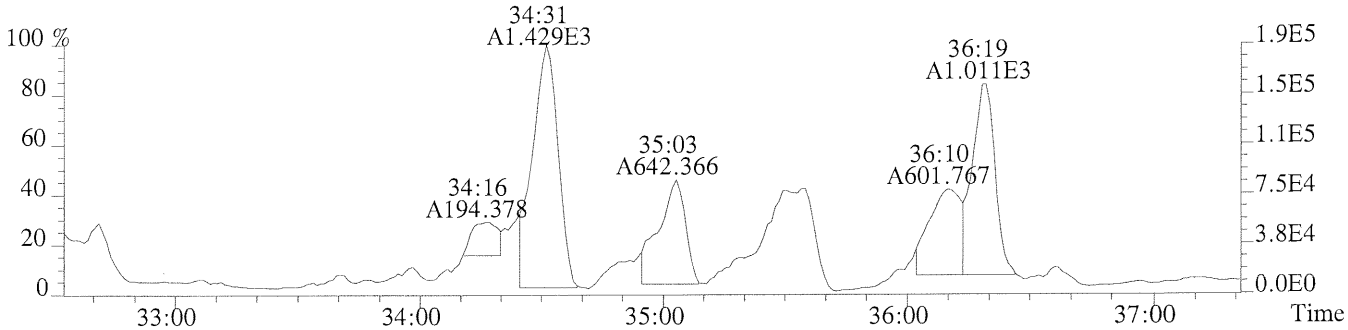


File:U142067 #1-308 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs

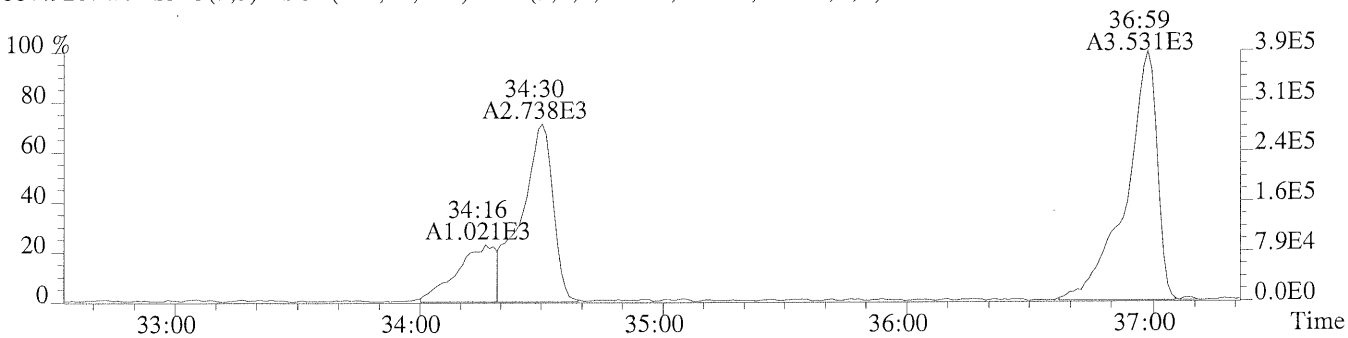
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16288.0,1.00%,F,T)



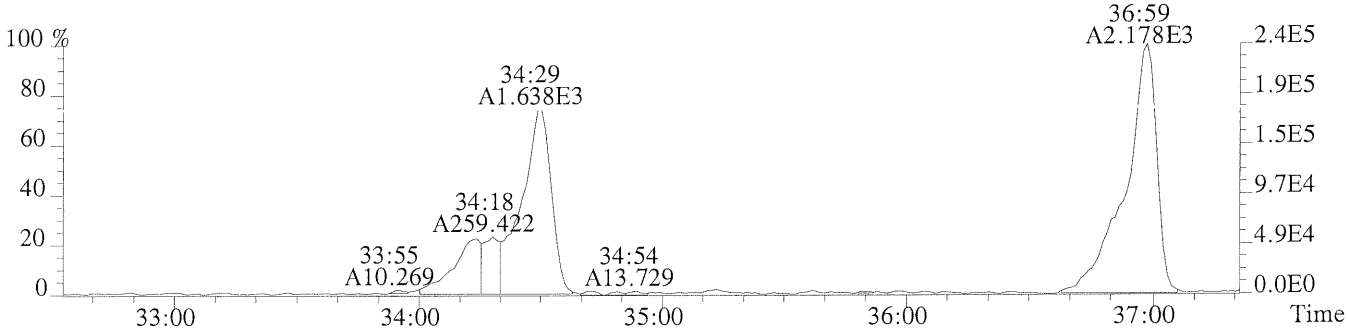
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12208.0,1.00%,F,T)



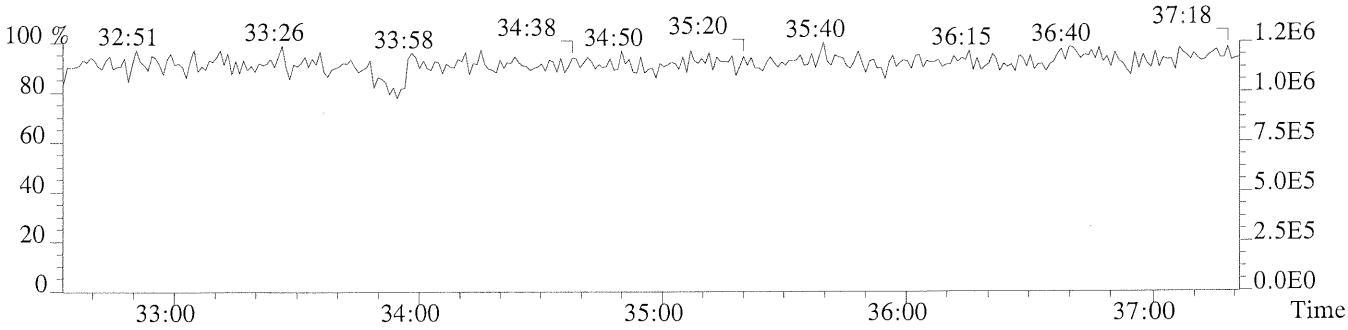
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3388.0,1.00%,F,T)



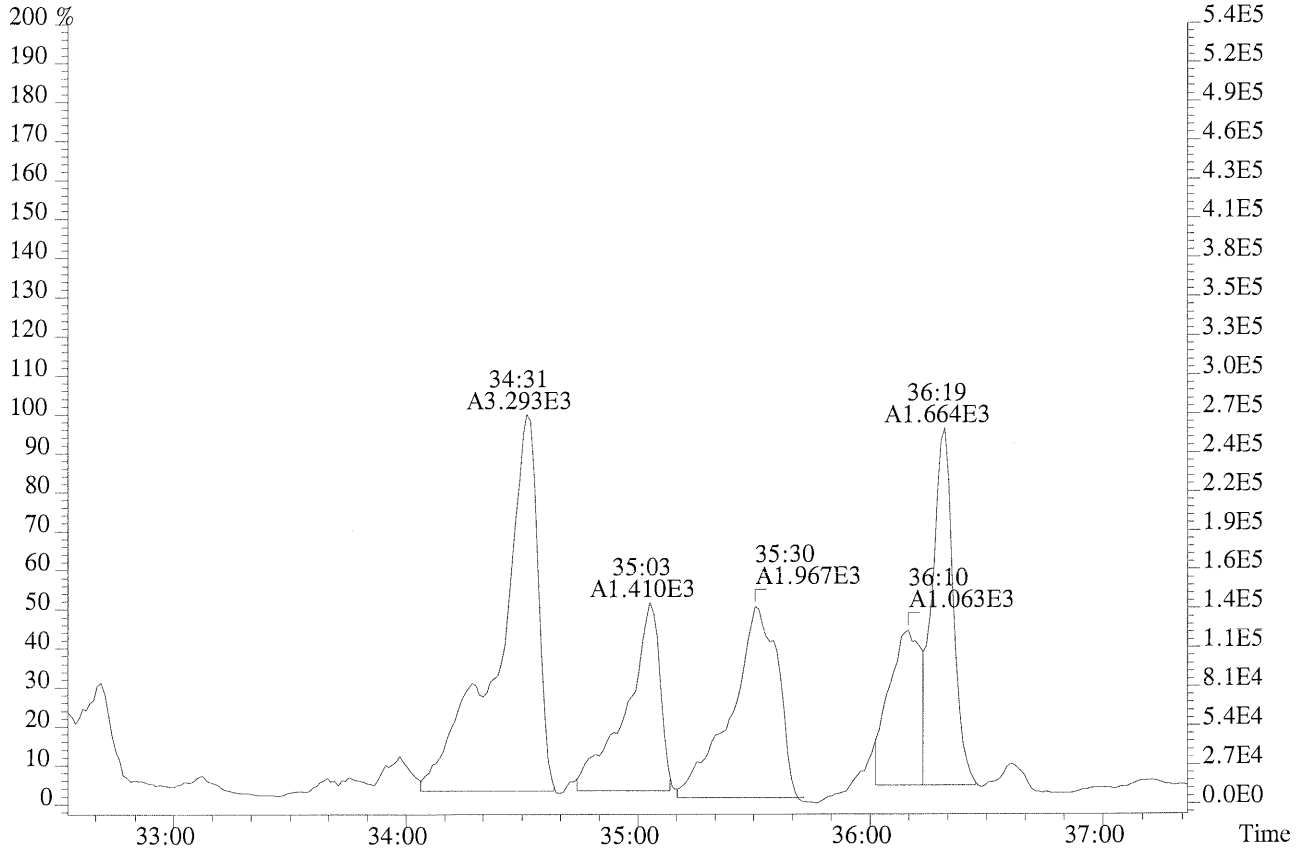
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1956.0,1.00%,F,T)



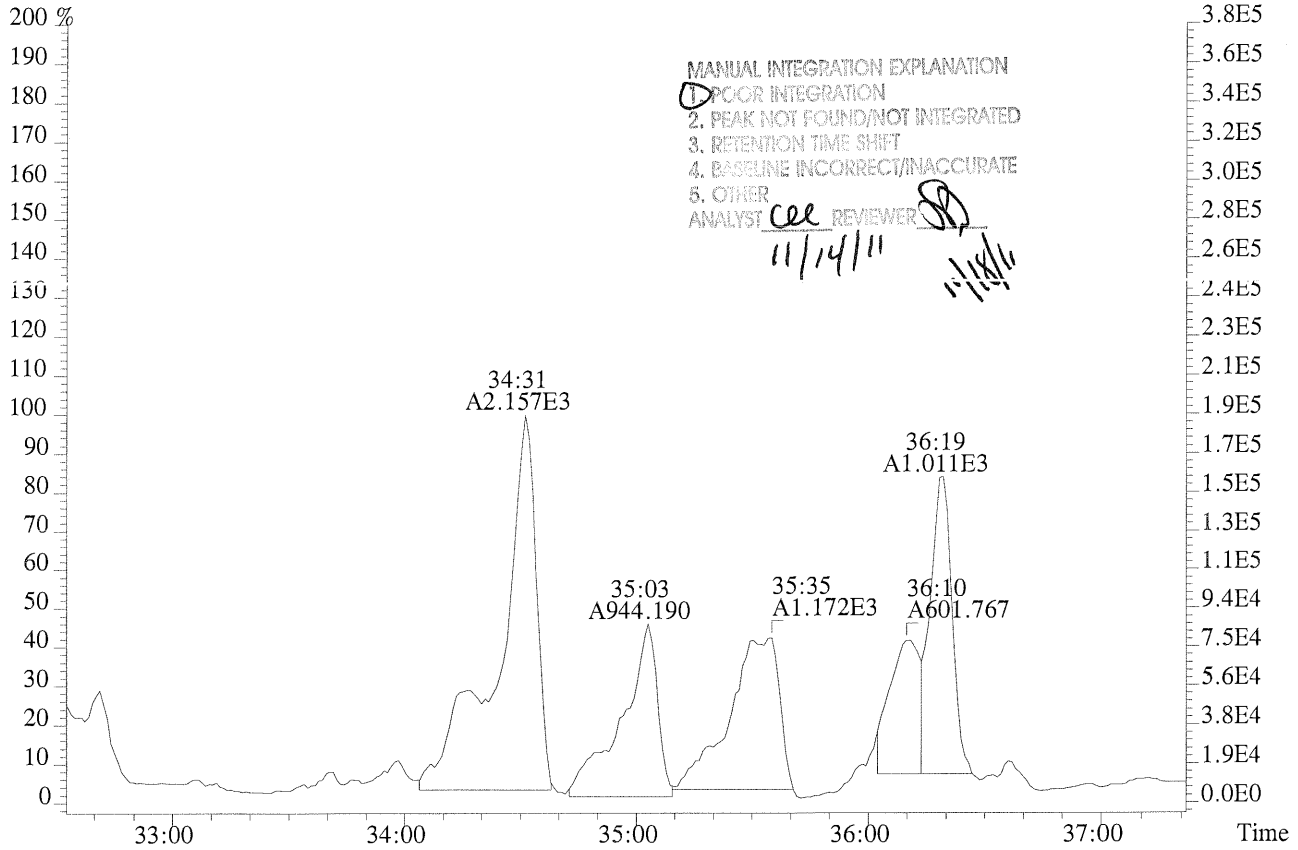
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



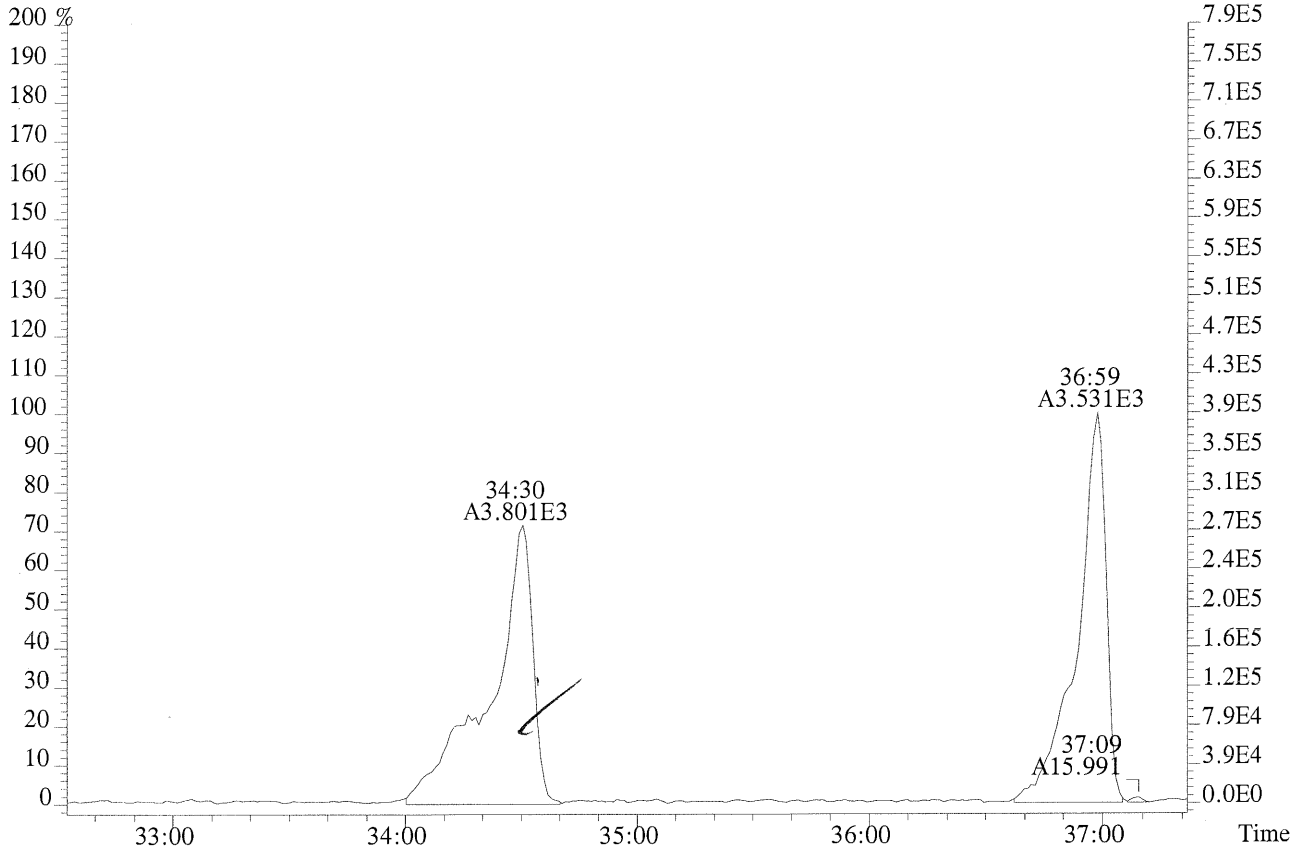
File:U142067 #1-308 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16288.0,1.00%,F,T)



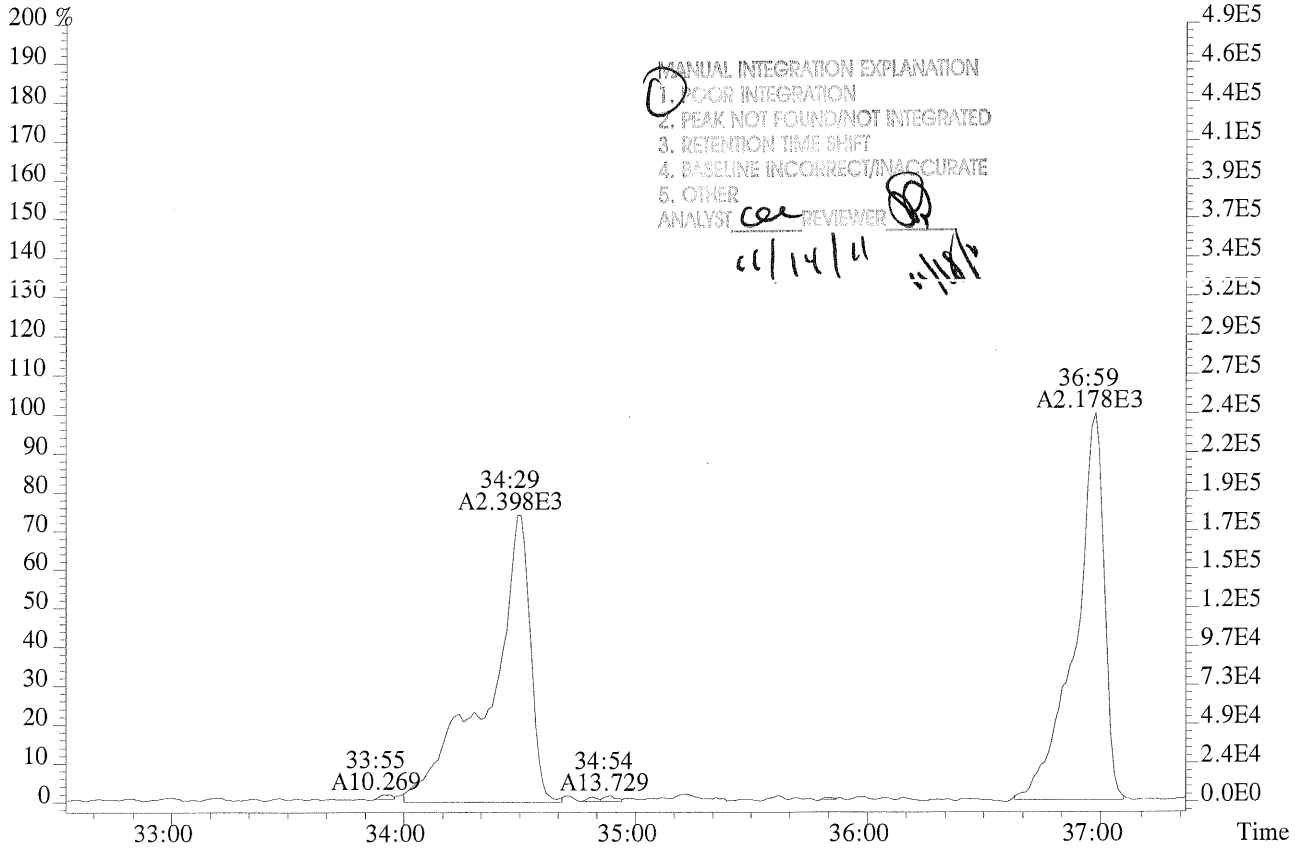
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12208.0,1.00%,F,T)



File:U142067 #1-308 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3388.0,1.00%,F,T)

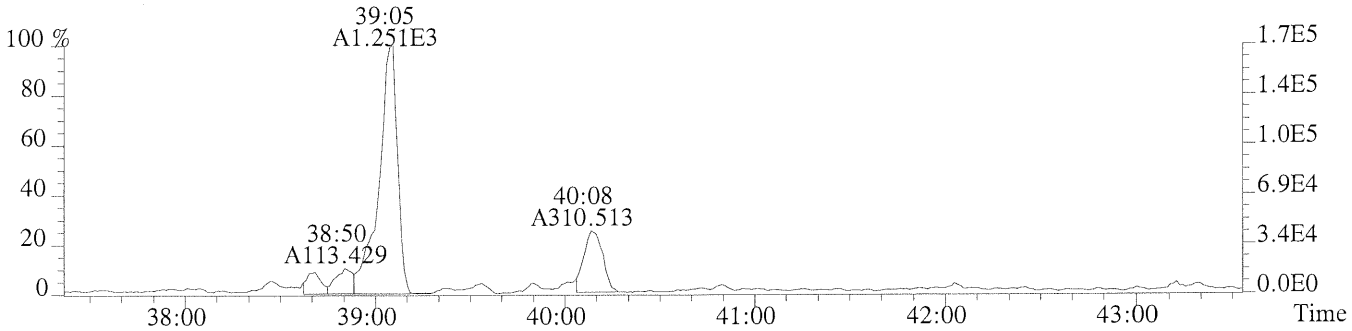


339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1956.0,1.00%,F,T)

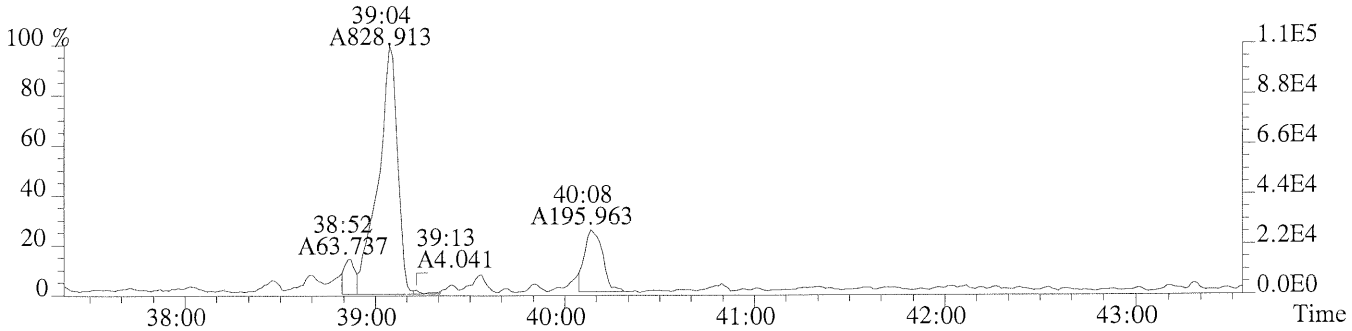


File:U142067 #1-396 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs

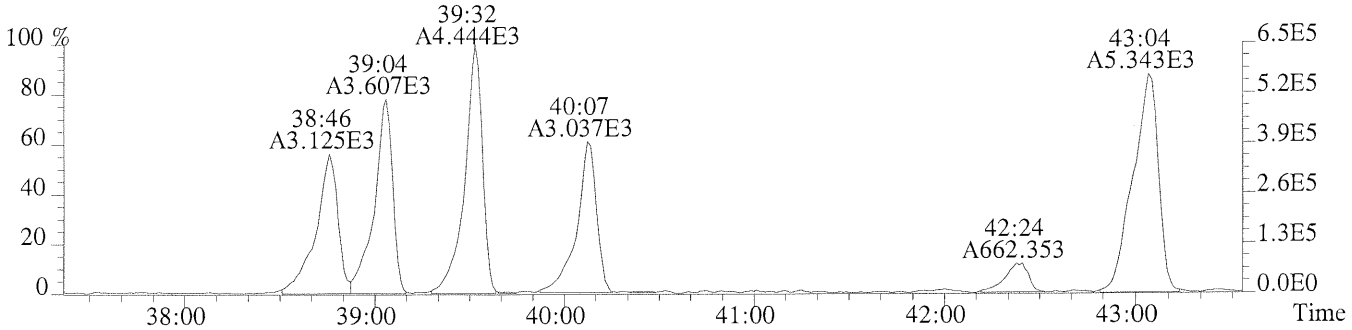
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3964.0,1.00%,F,T)



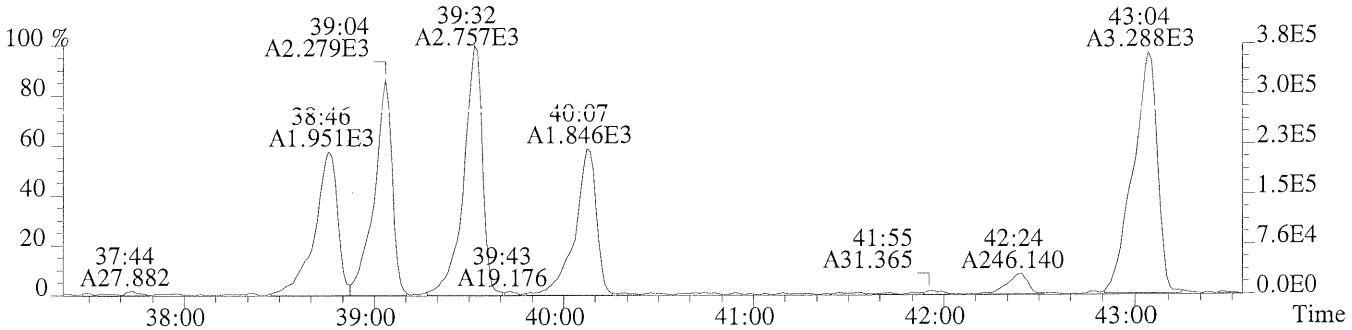
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3168.0,1.00%,F,T)



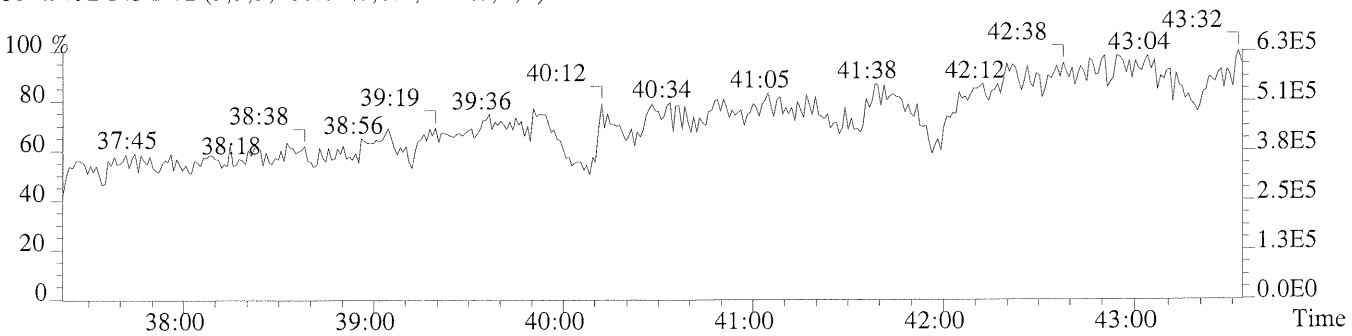
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4840.0,1.00%,F,T)



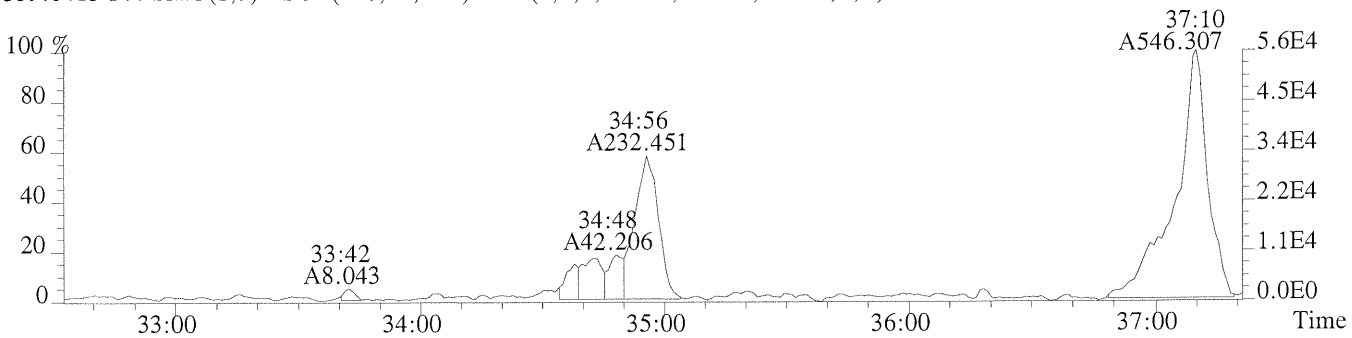
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1816.0,1.00%,F,T)



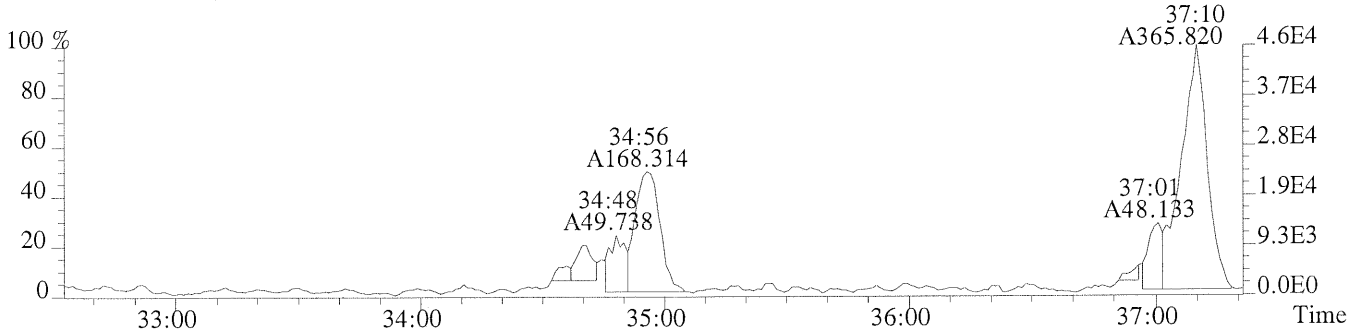
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



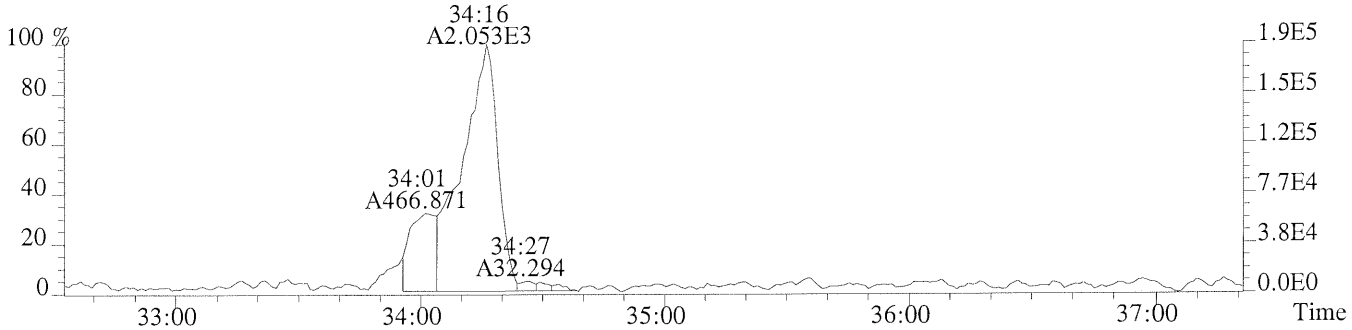
File:U142067 #1-308 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



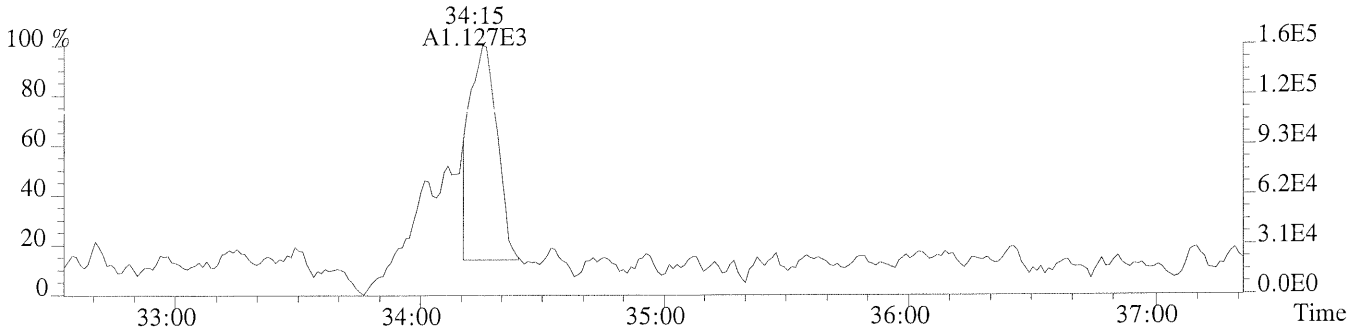
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



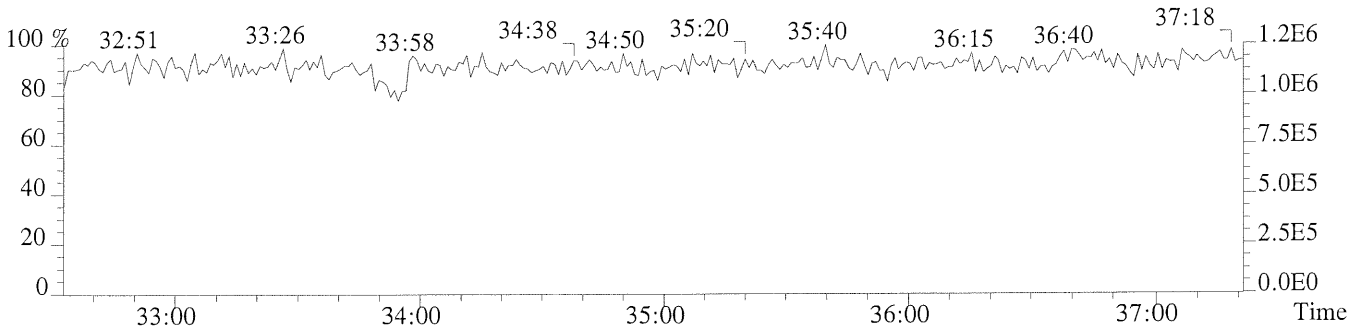
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8216.0,1.00%,F,T)



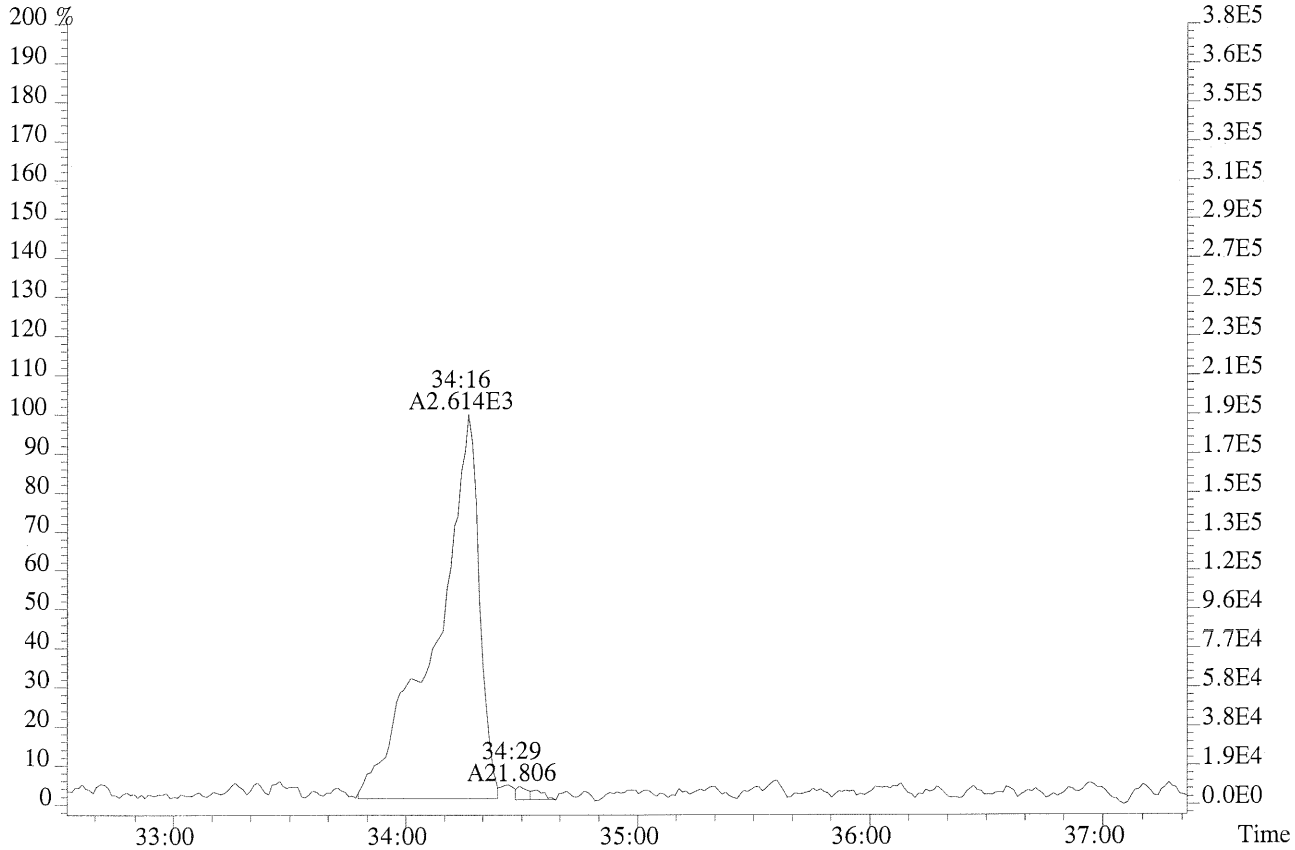
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,26284.0,1.00%,F,T)



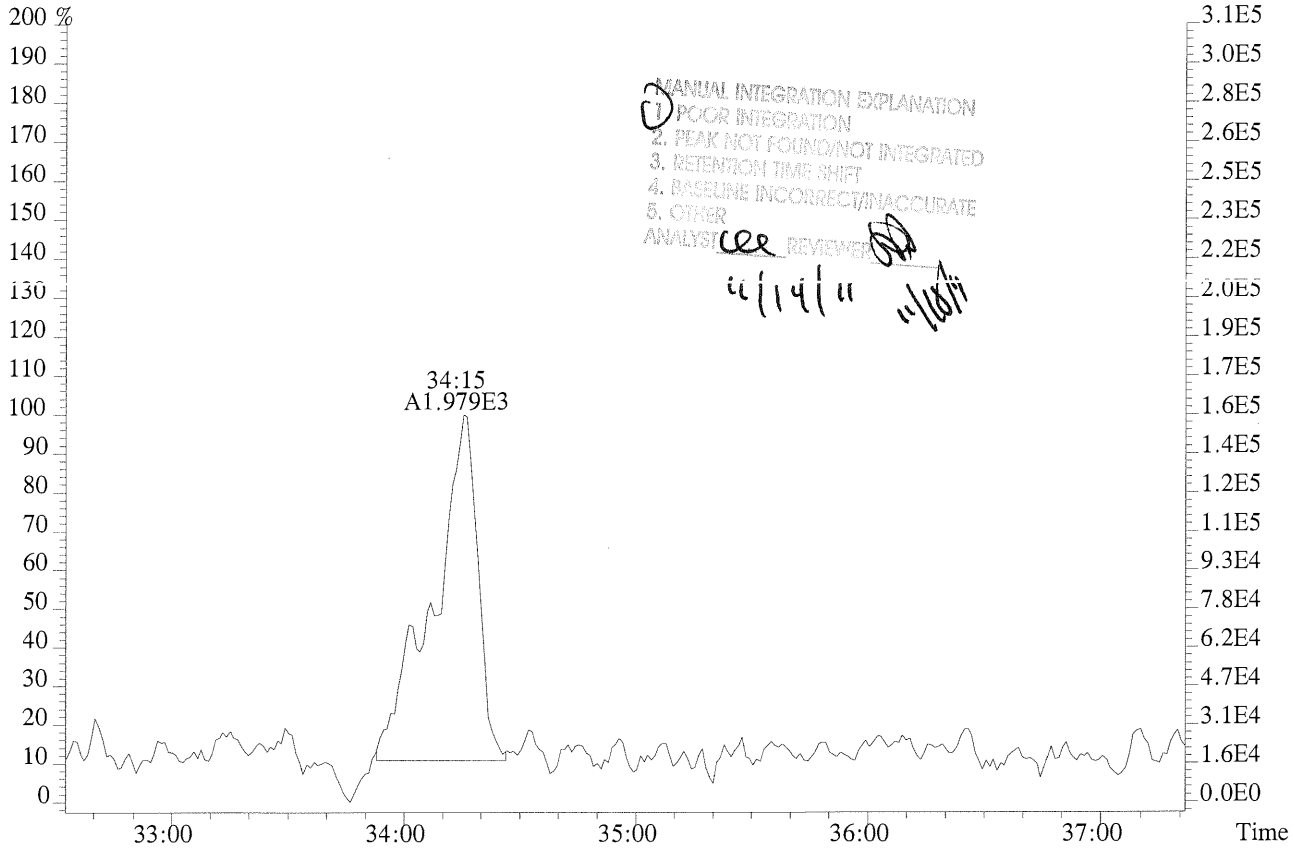
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142067 #1-308 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8216.0,1.00%,F,T)

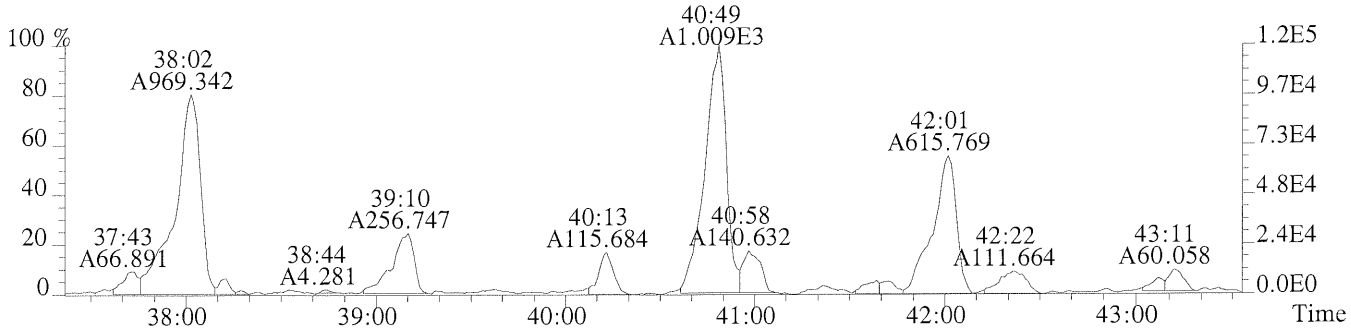


373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,26284.0,1.00%,F,T)

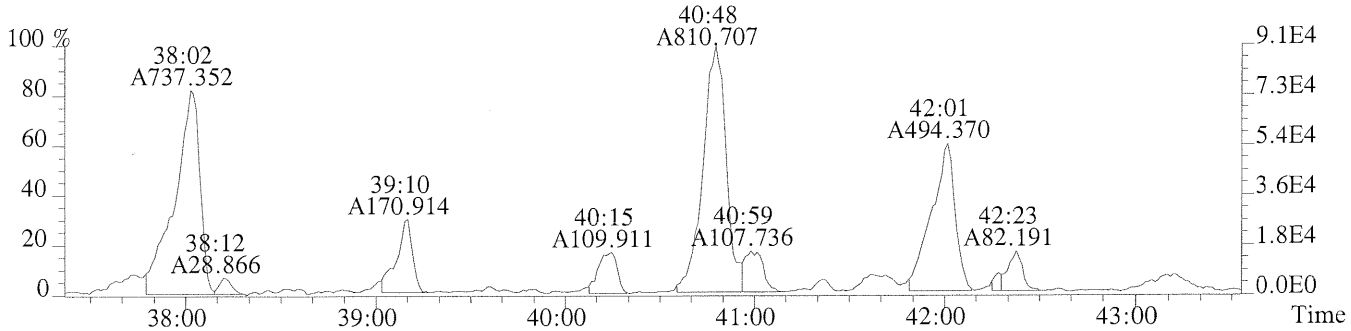


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER
11/14/11 11/18/11

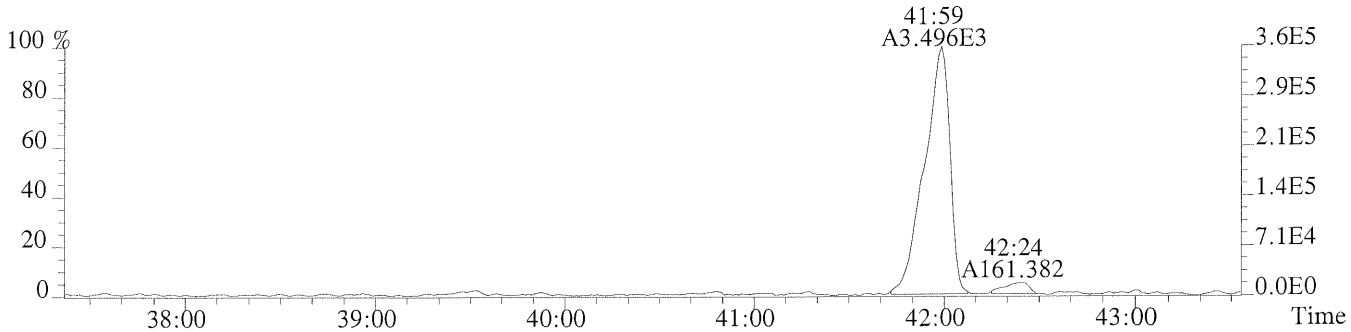
File:U142067 #1-396 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1404.0,1.00%,F,T)



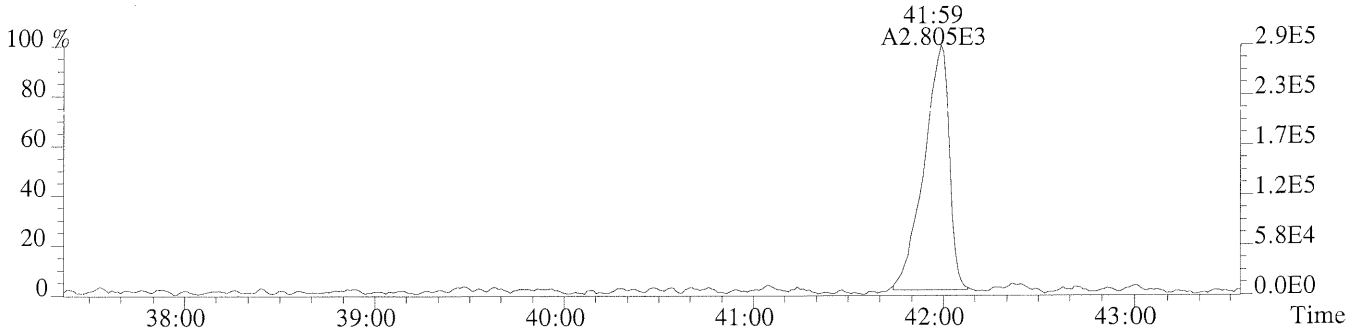
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2148.0,1.00%,F,T)



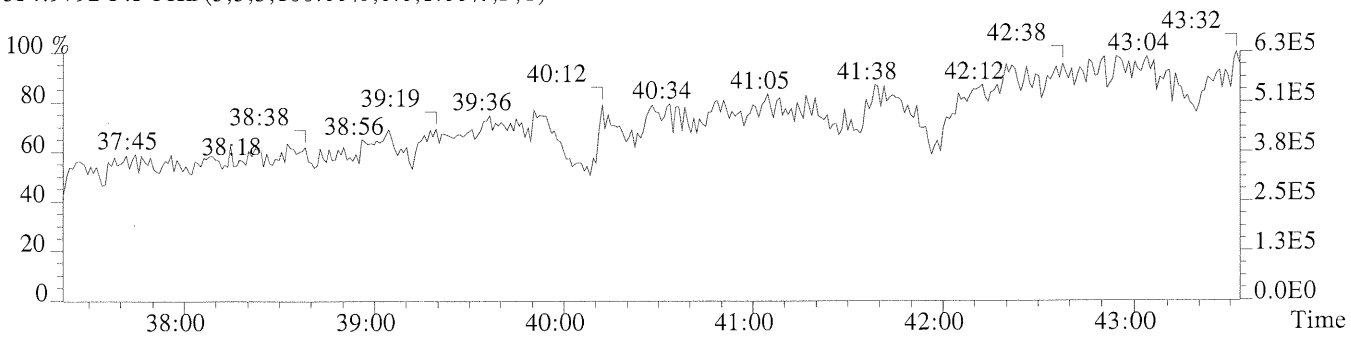
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3700.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6064.0,1.00%,F,T)

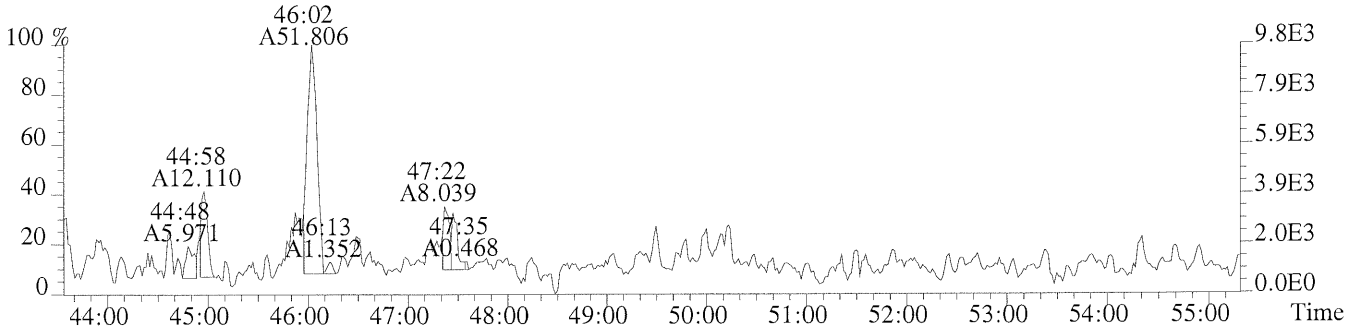


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

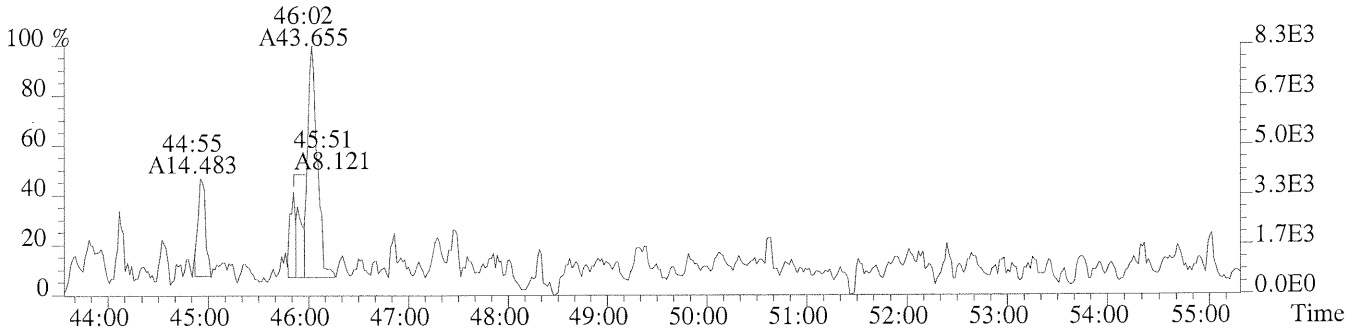


File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs

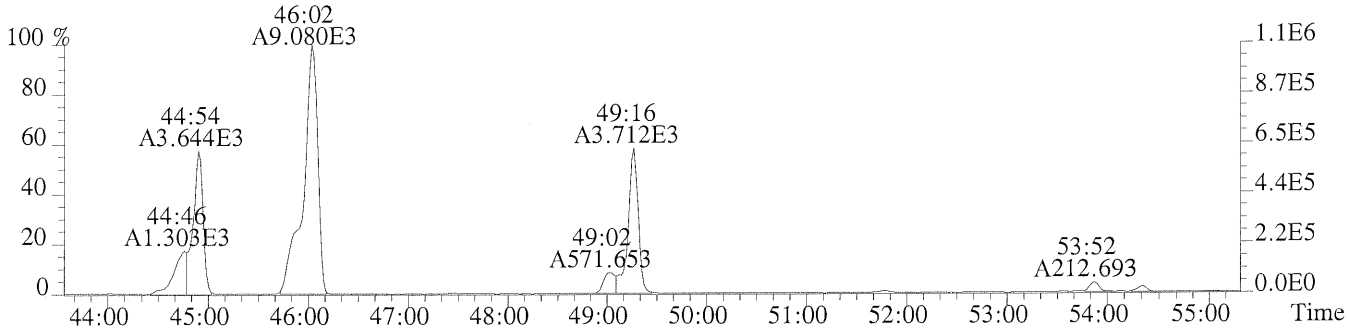
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1392.0,1.00%,F,T)



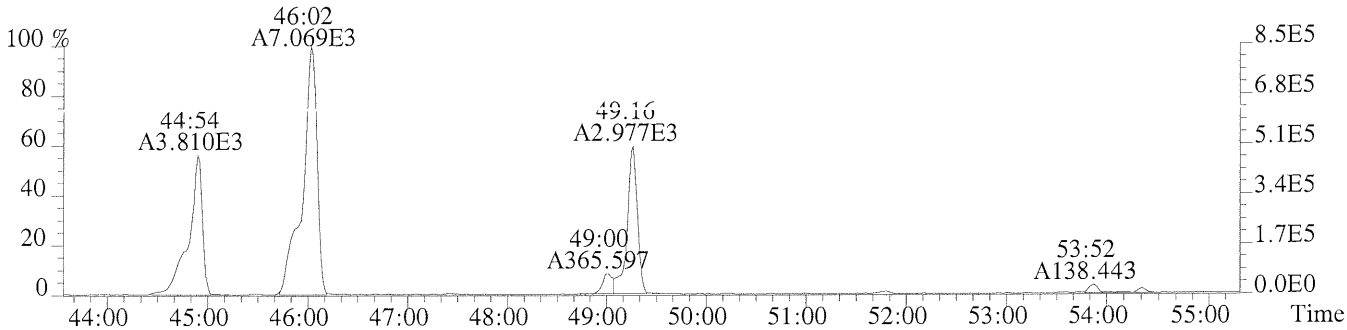
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1116.0,1.00%,F,T)



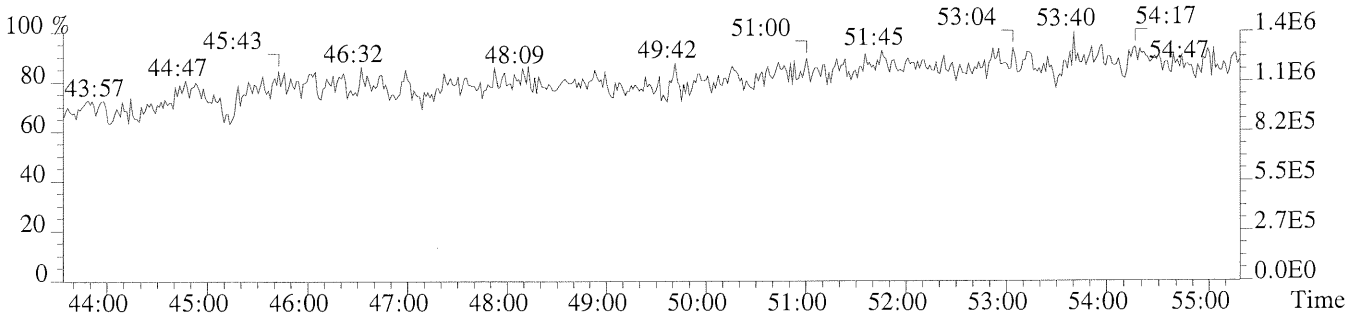
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3060.0,1.00%,F,T)



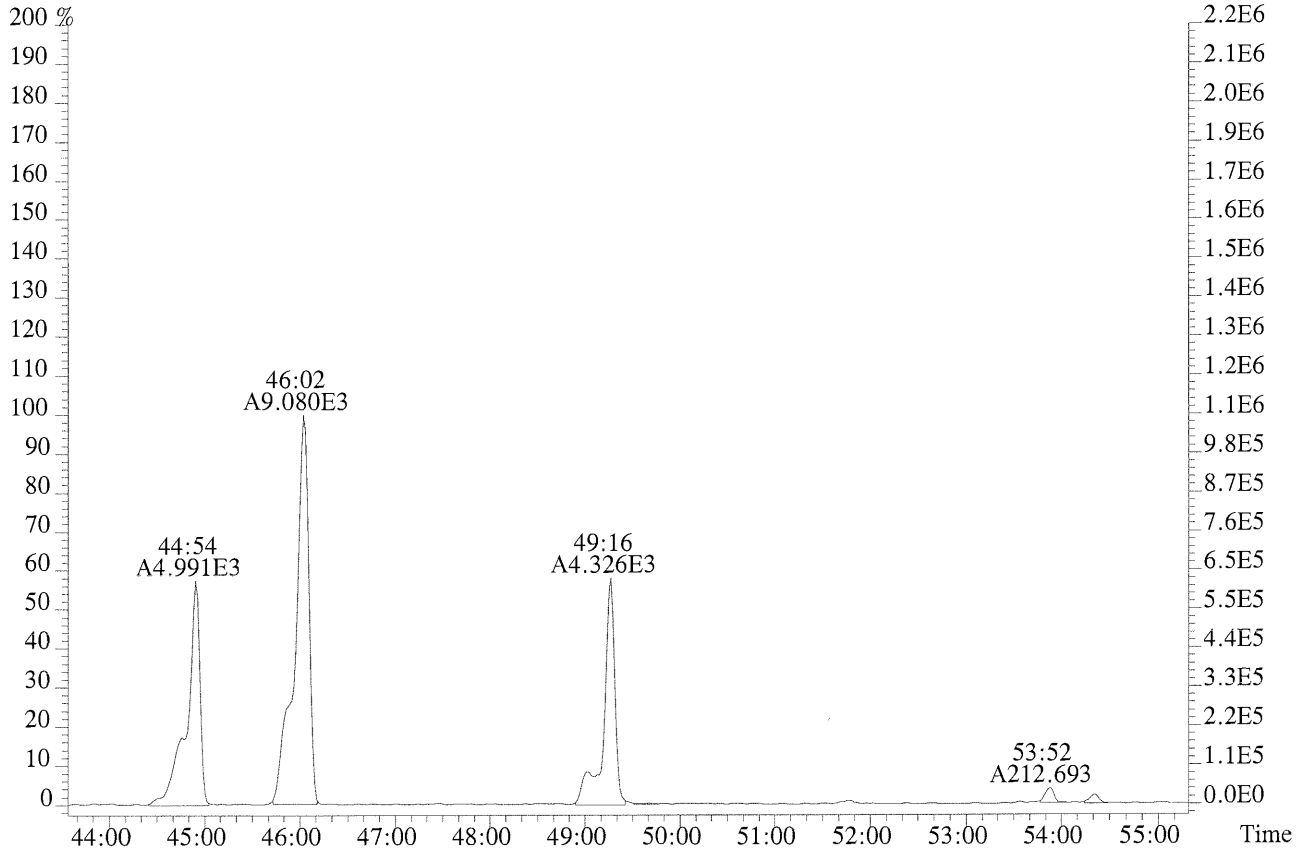
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3680.0,1.00%,F,T)



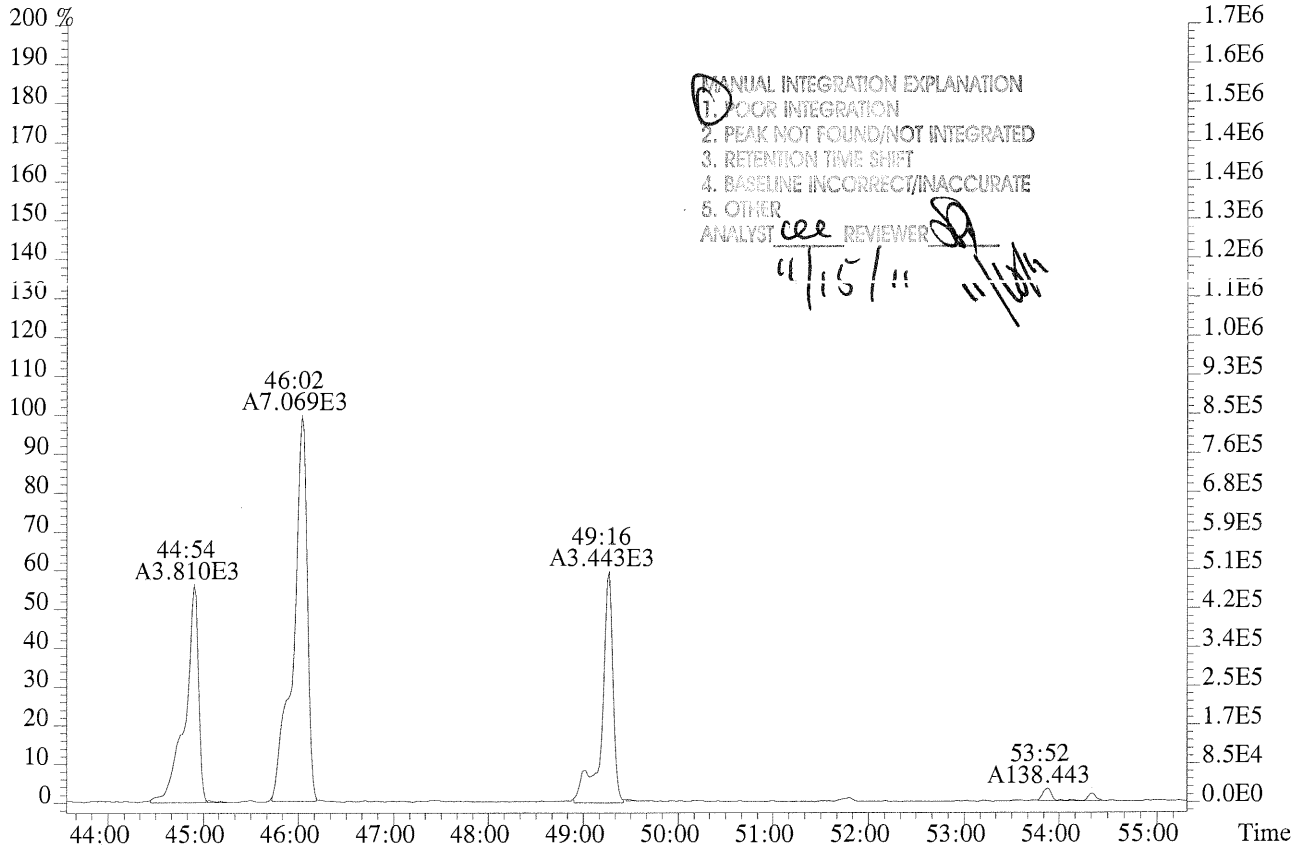
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3060.0,1.00%,F,T)



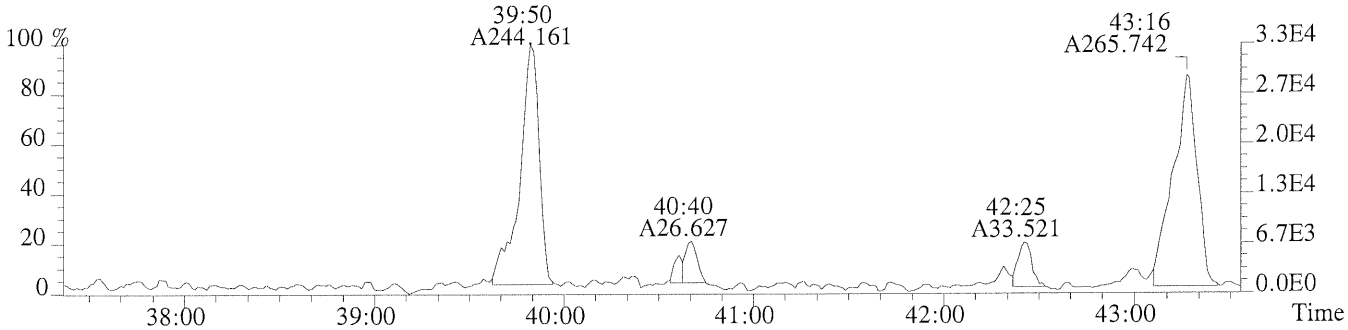
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3680.0,1.00%,F,T)



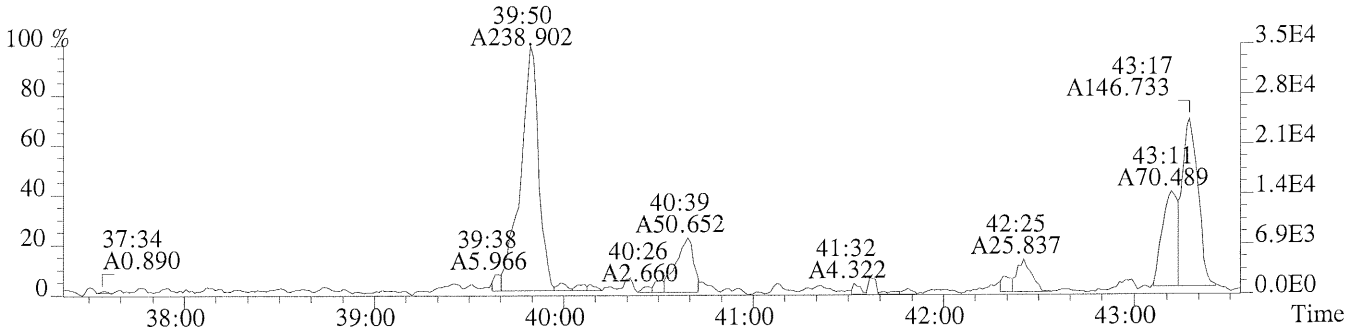
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER
11/15/11 11/16/11

File:U142067 #1-396 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs

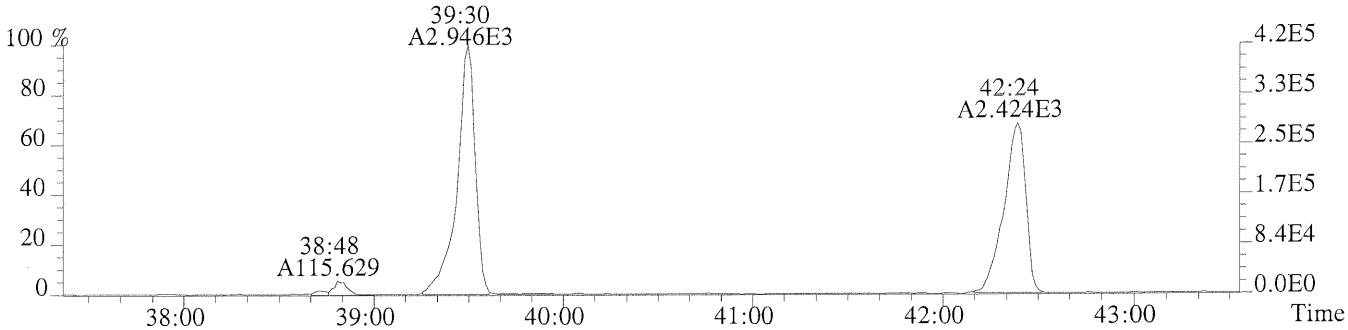
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1384.0,1.00%,F,T)



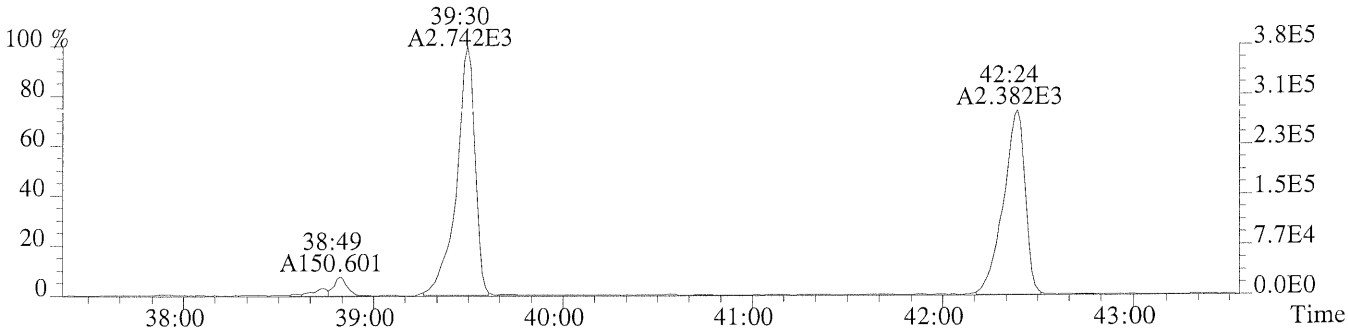
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,800.0,1.00%,F,T)



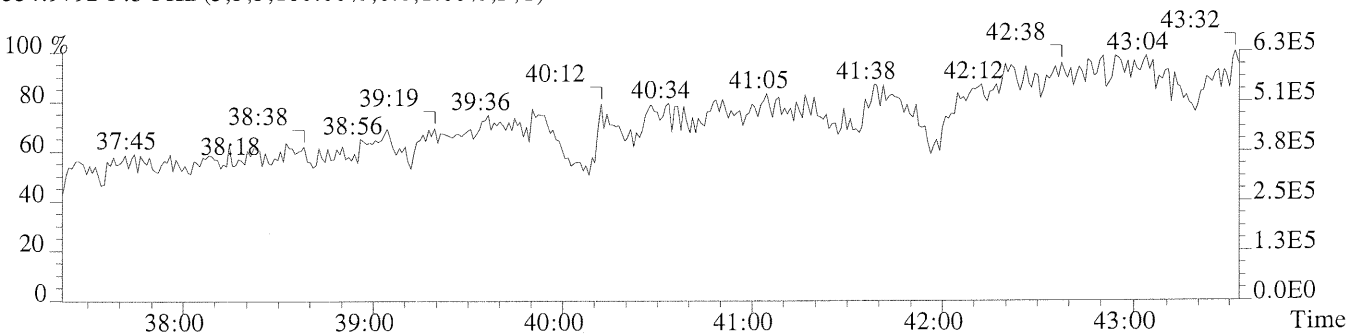
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)



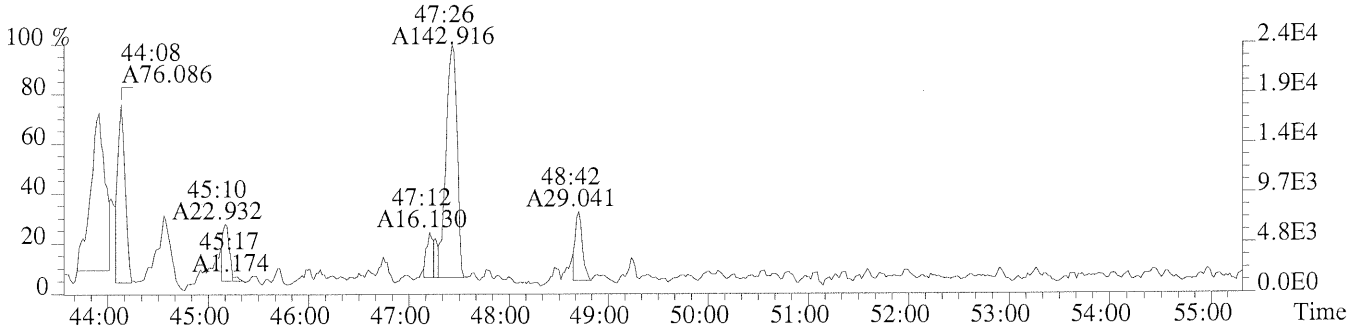
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,760.0,1.00%,F,T)



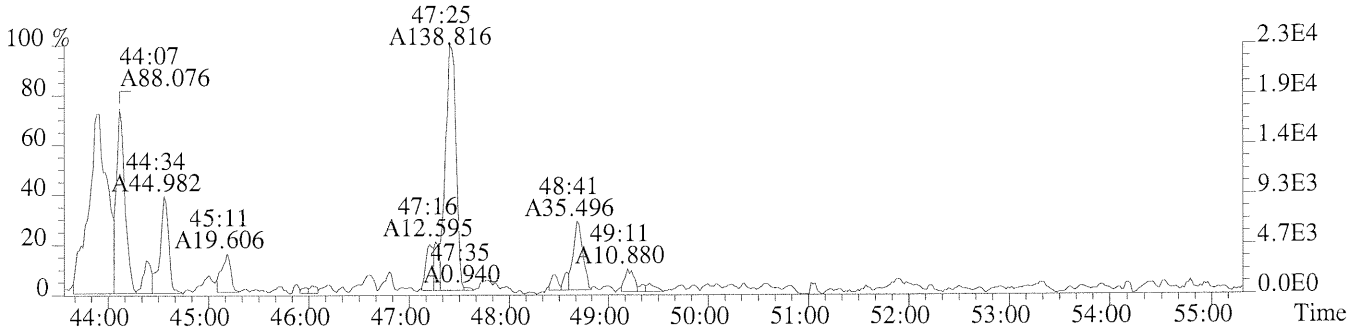
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



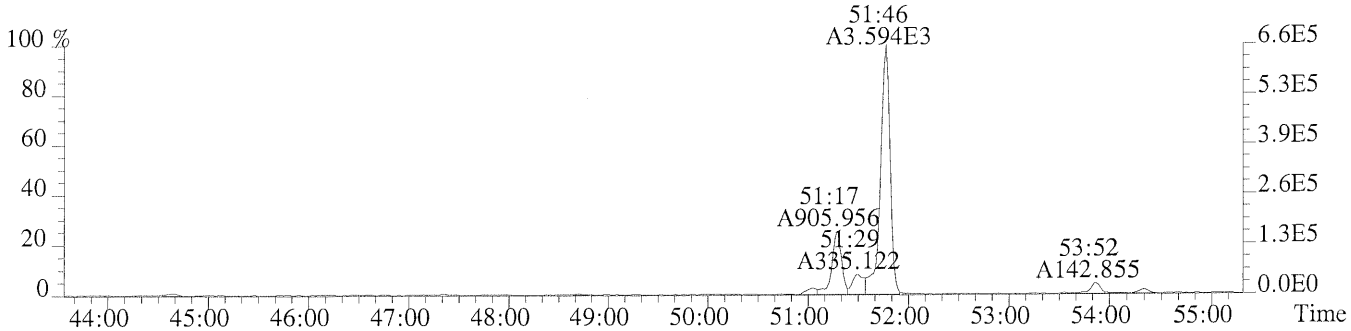
File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2108.0,1.00%,F,T)



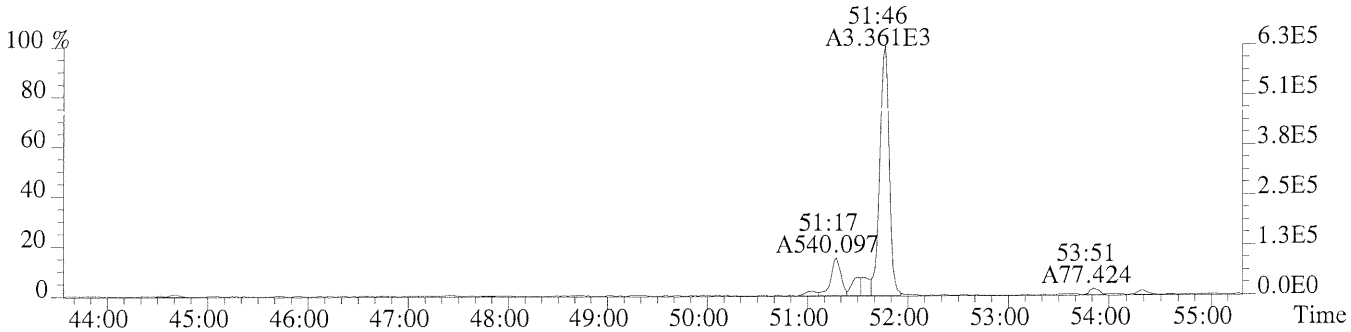
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,636.0,1.00%,F,T)



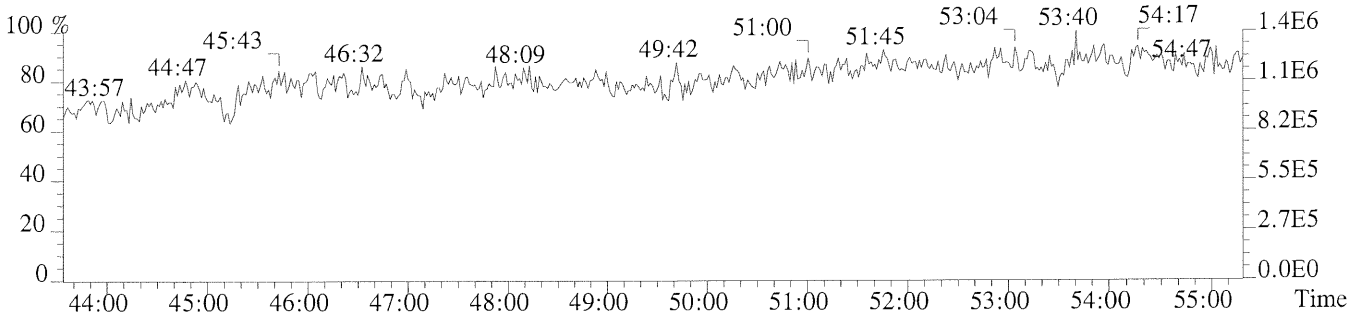
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,T)



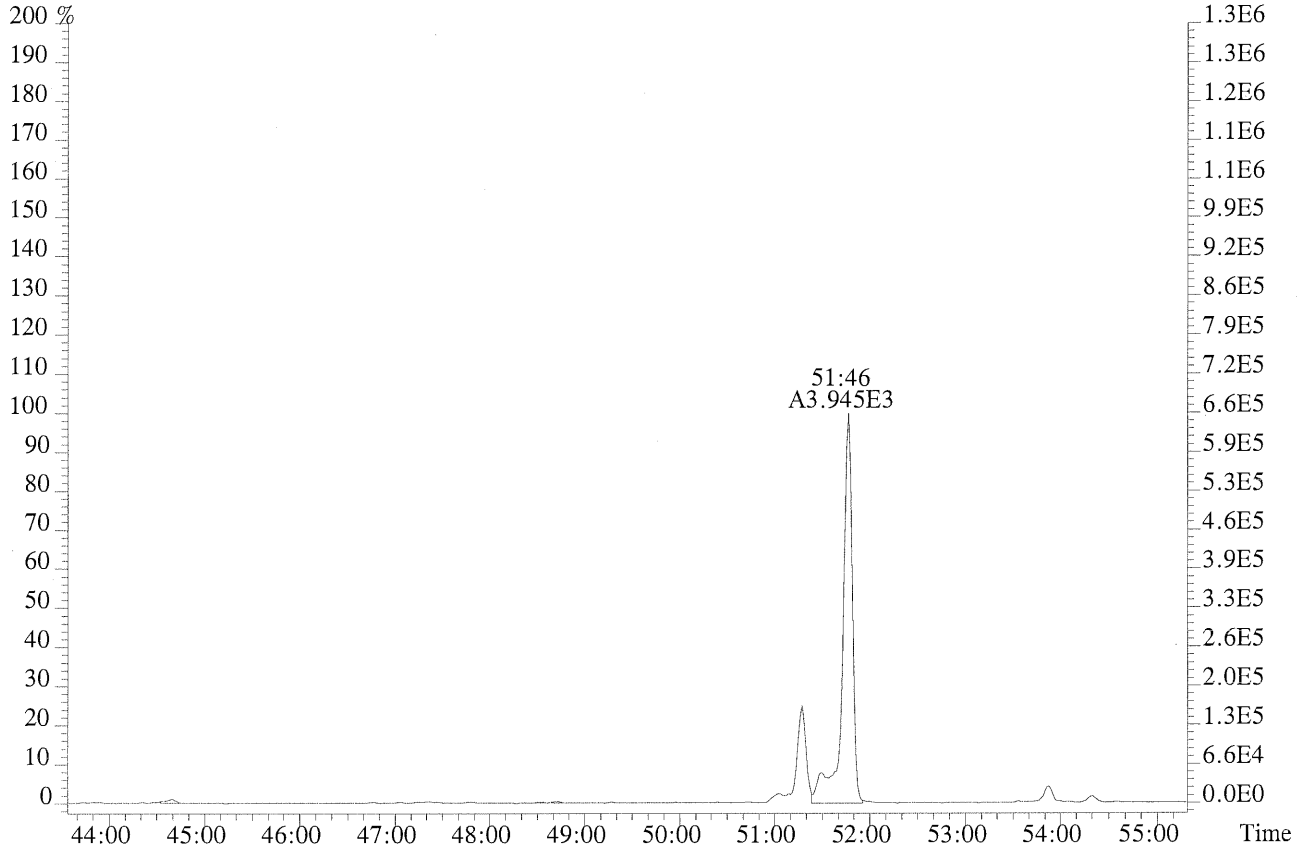
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



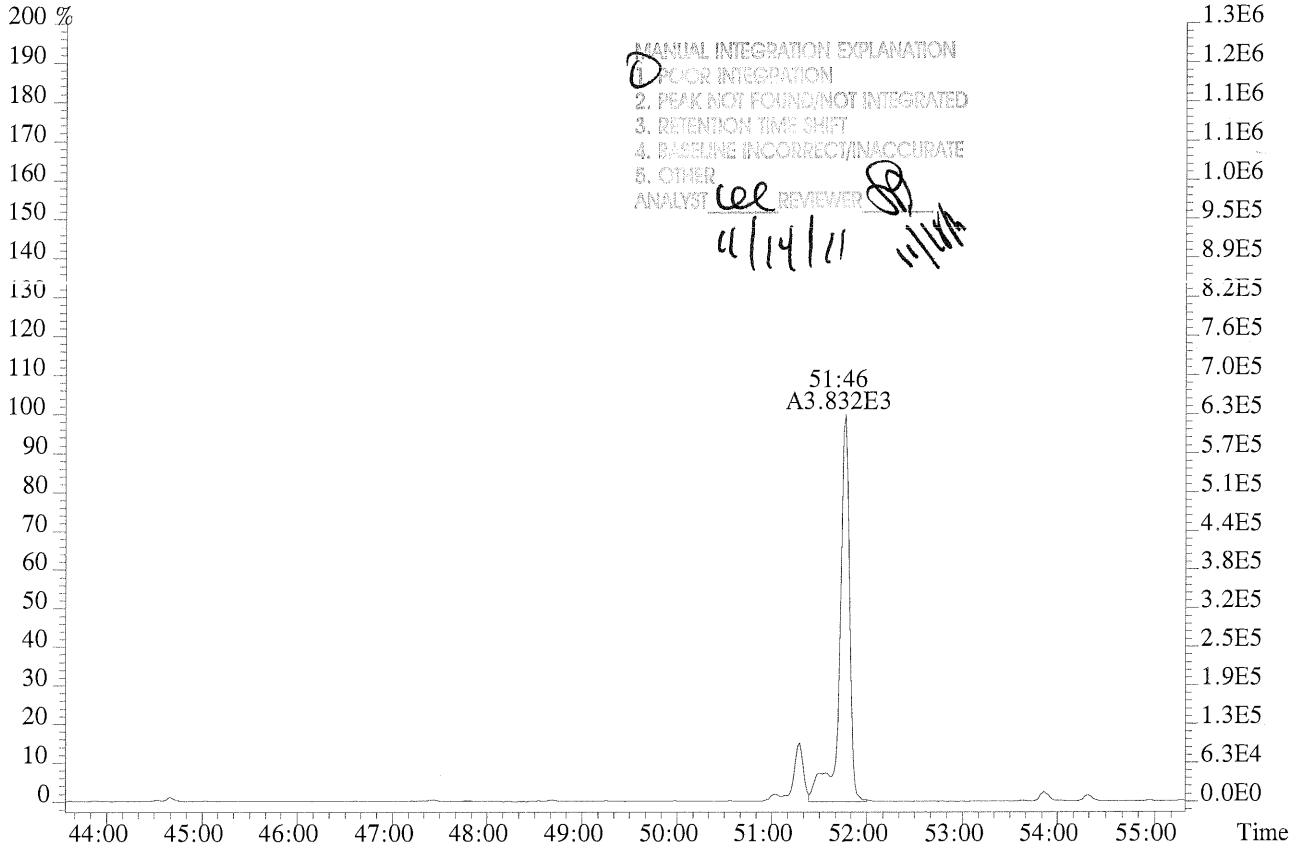
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,T)

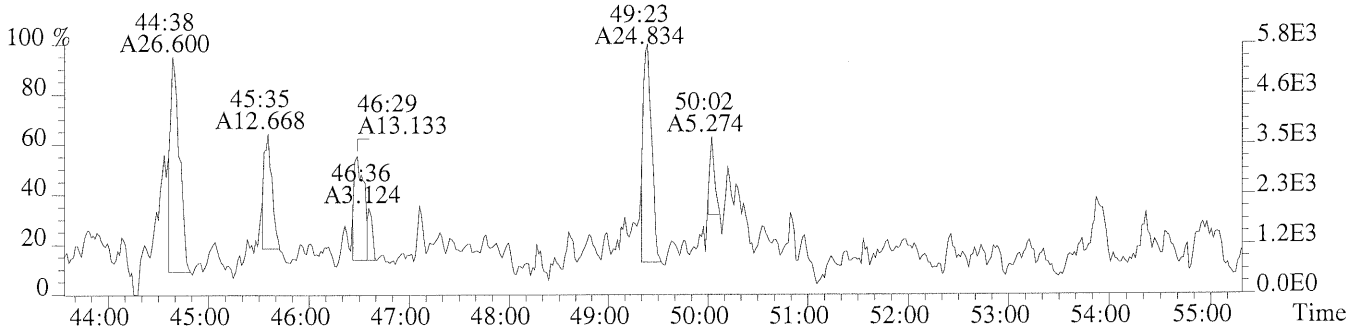


407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)

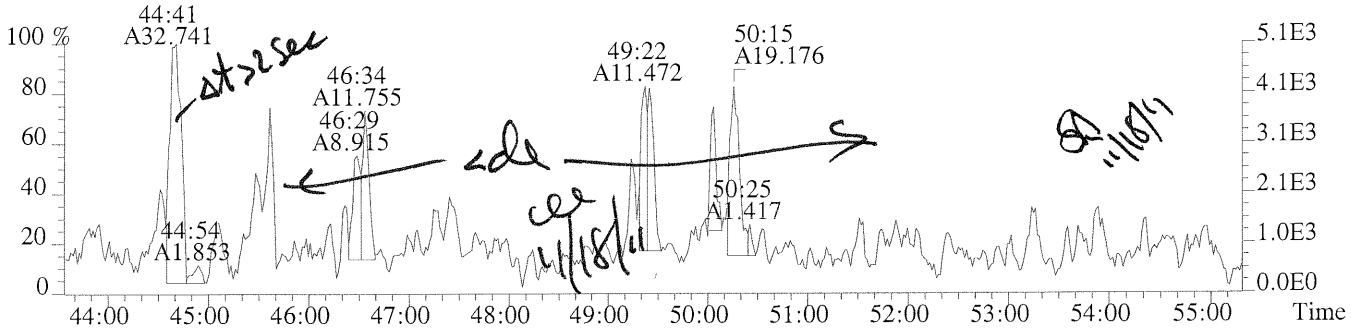


File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs

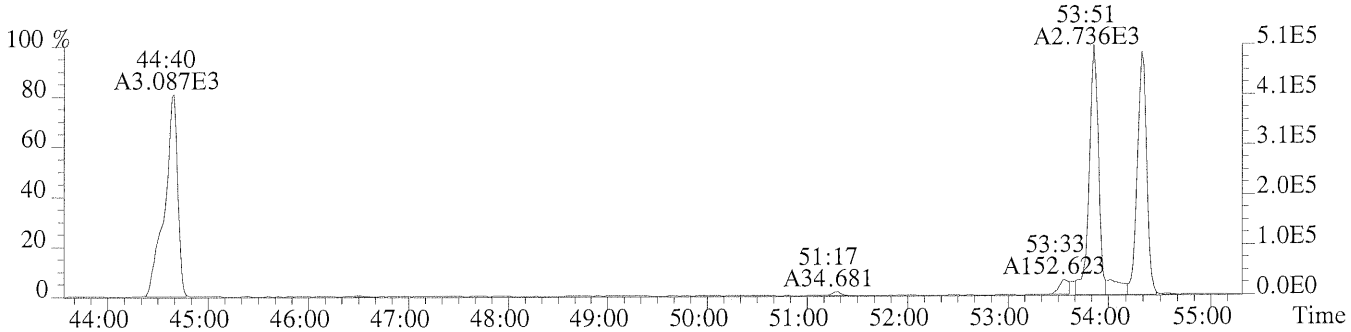
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)



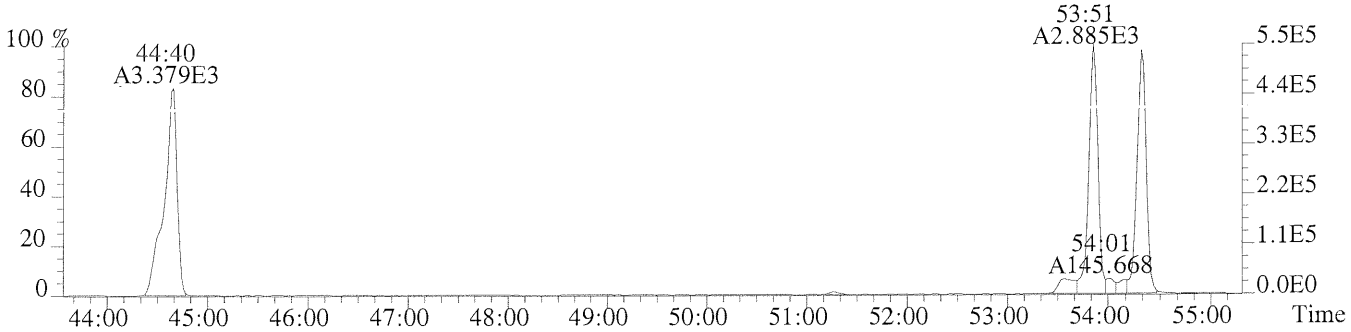
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1056.0,1.00%,F,T)



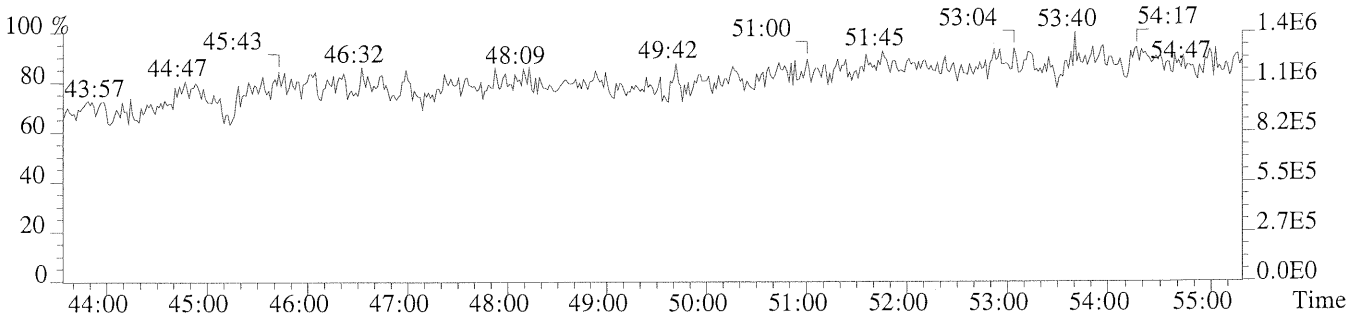
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)



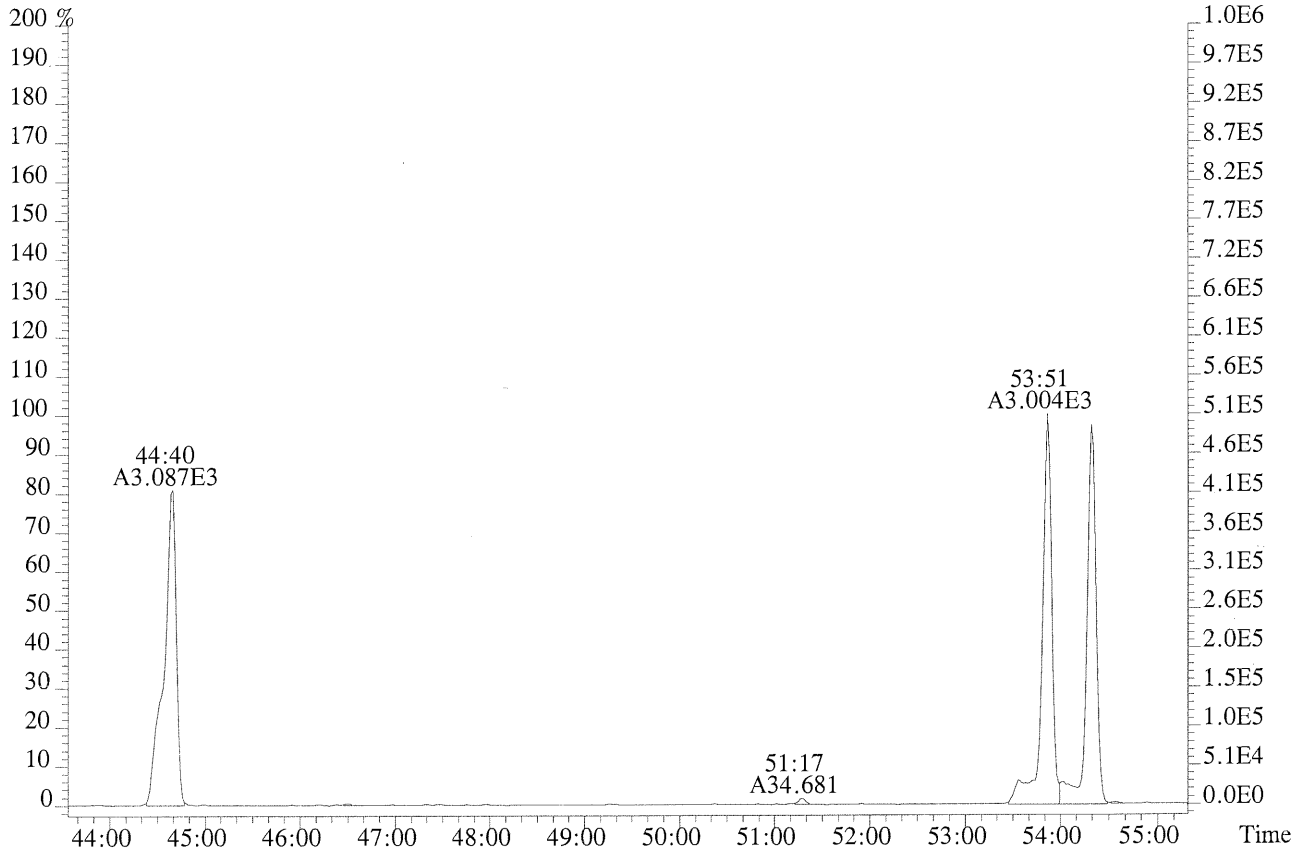
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



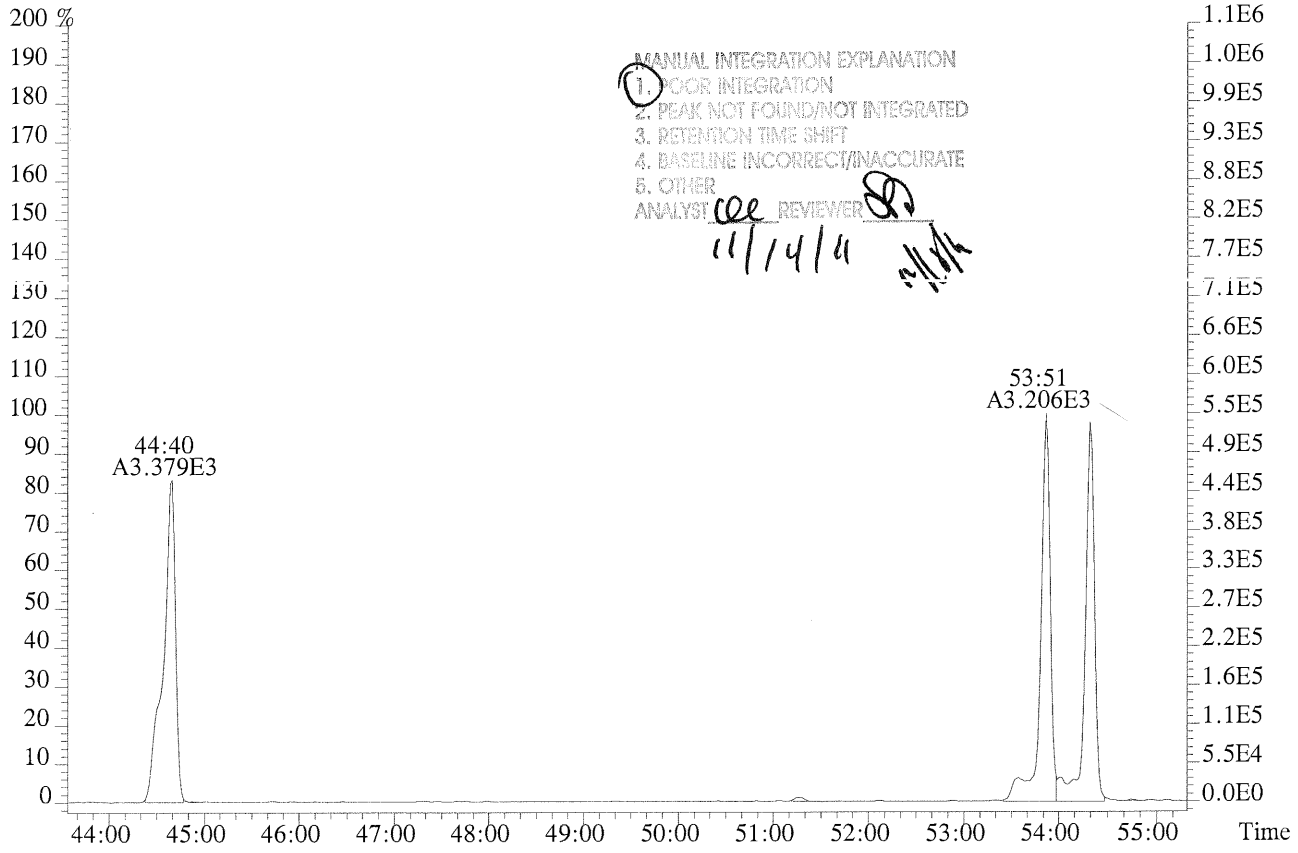
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)

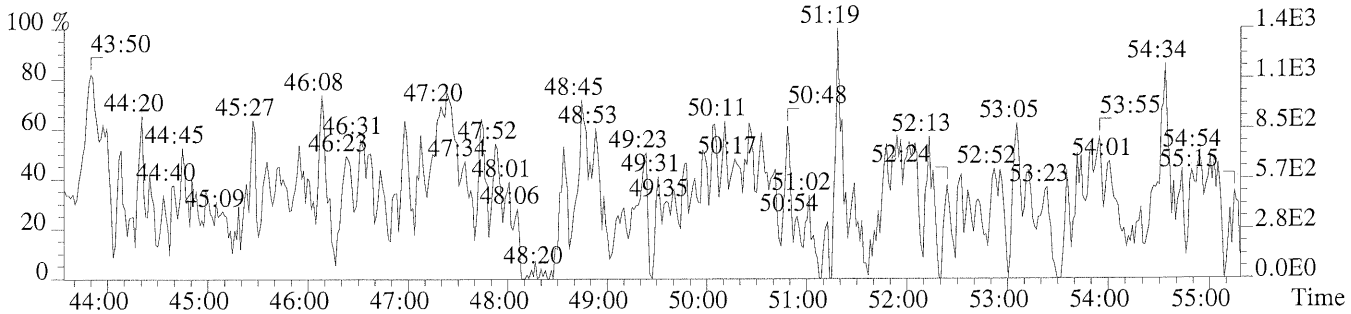


441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)

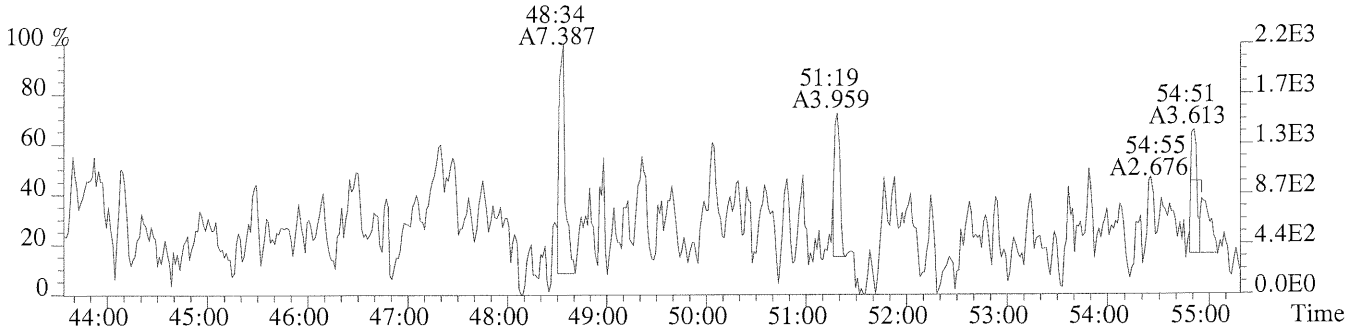


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER
11/14/11

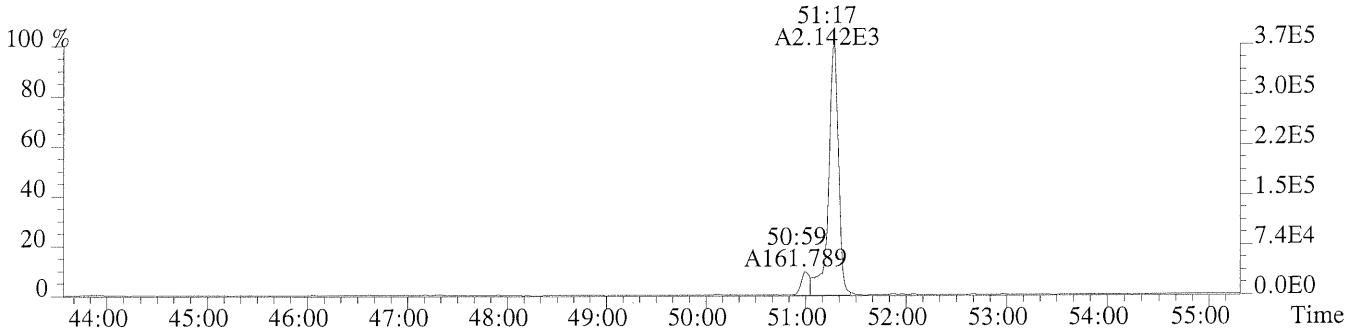
File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,576.0,1.00%,F,T)



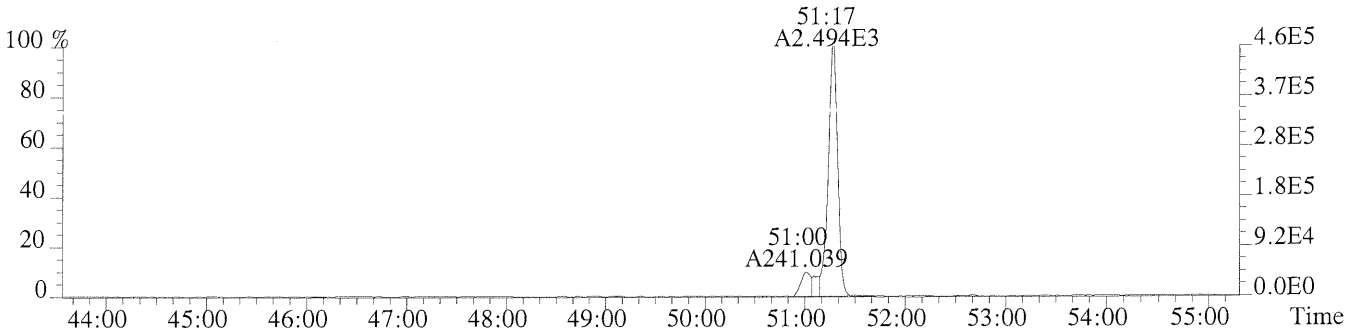
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,672.0,1.00%,F,T)



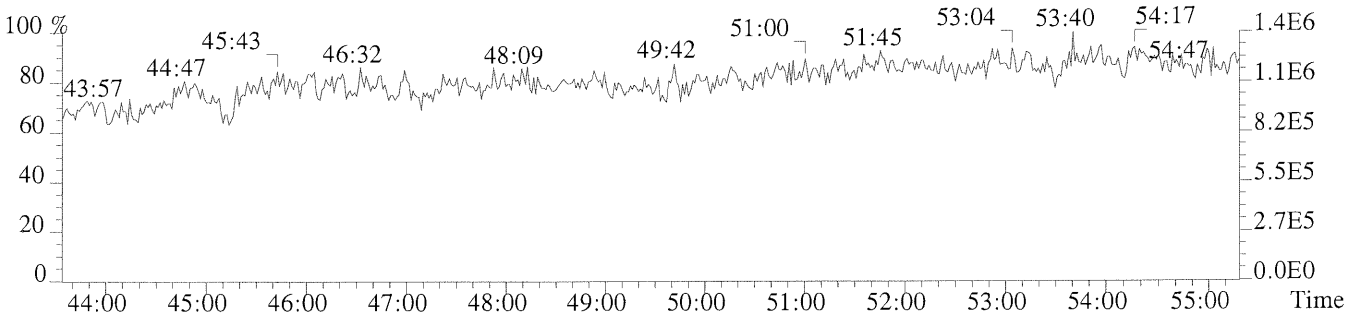
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)



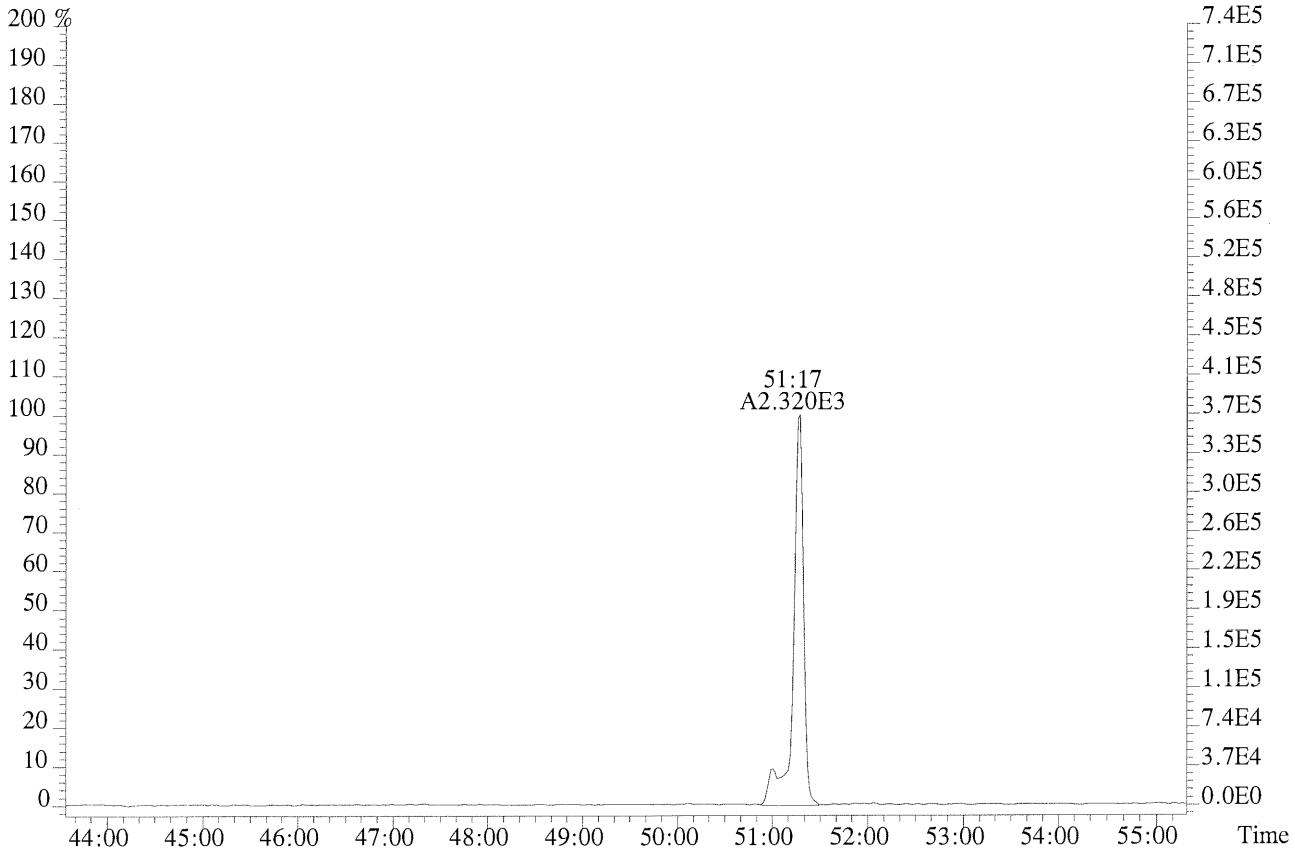
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,792.0,1.00%,F,T)



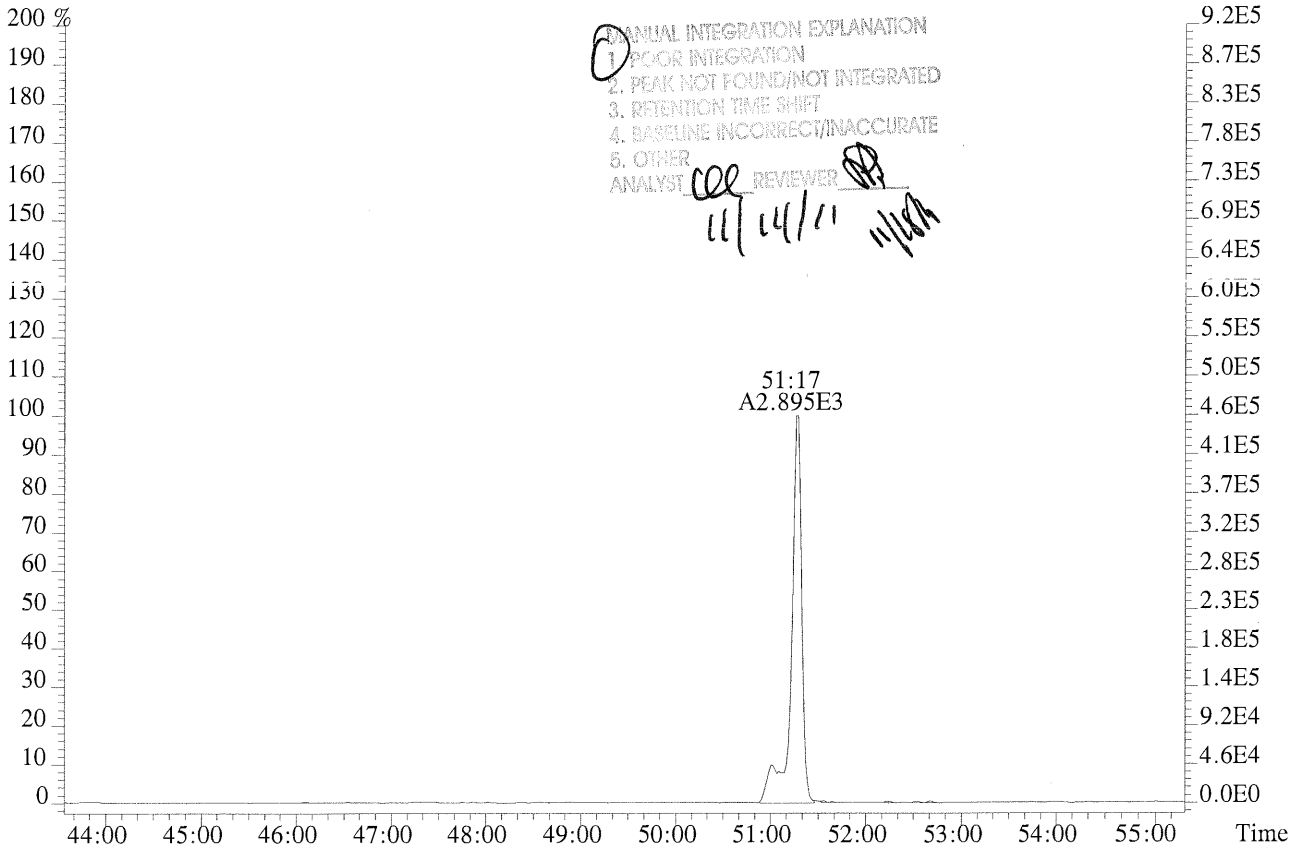
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



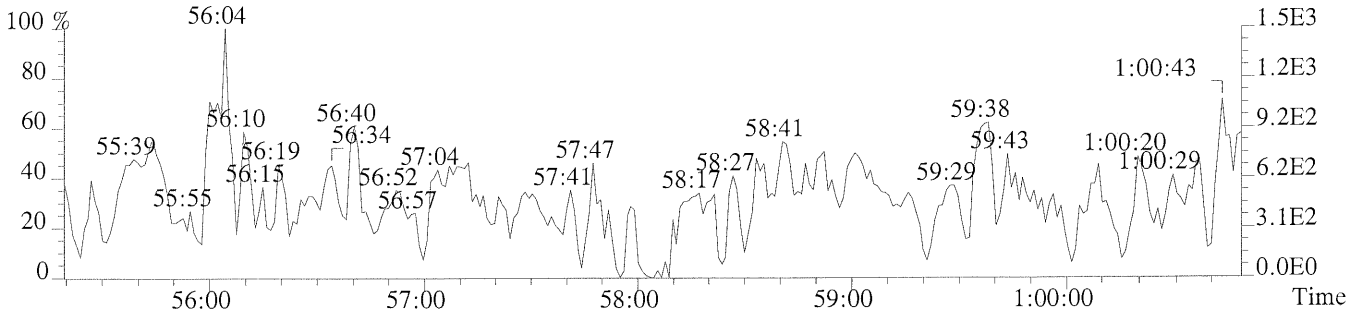
File:U142067 #1-582 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)



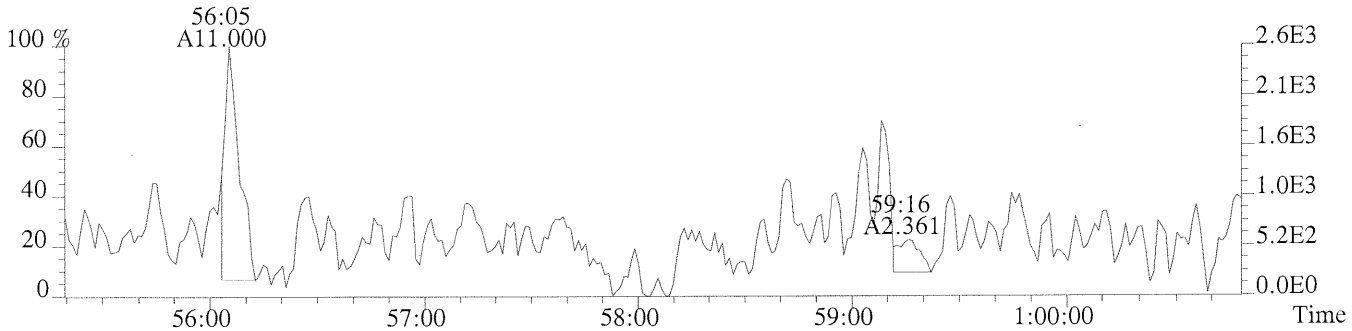
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,792.0,1.00%,F,T)



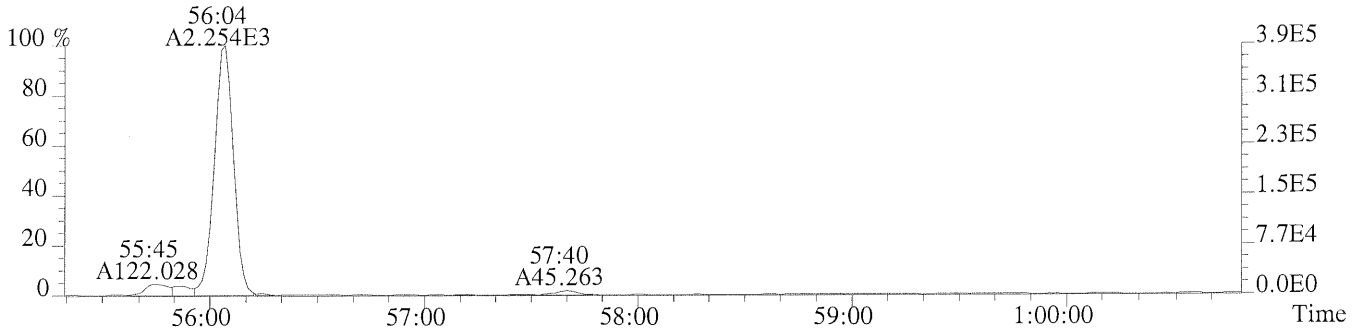
File:U142067 #1-310 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,596.0,1.00%,F,T)



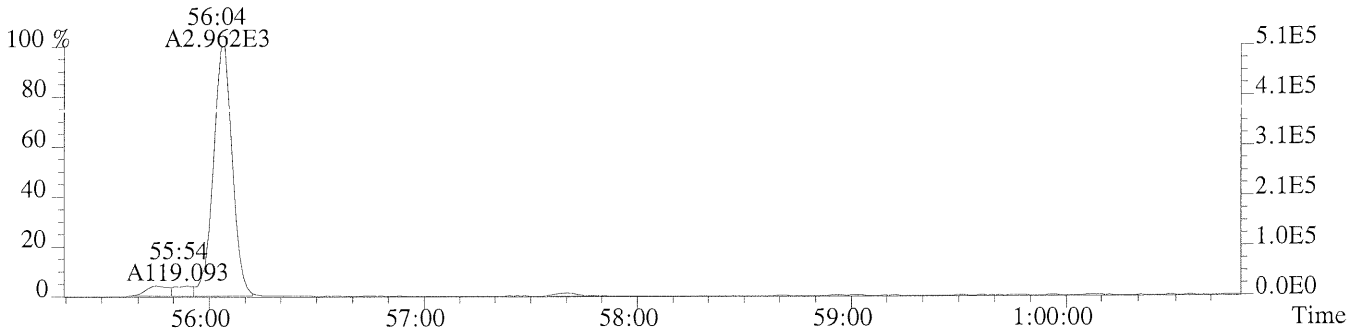
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)



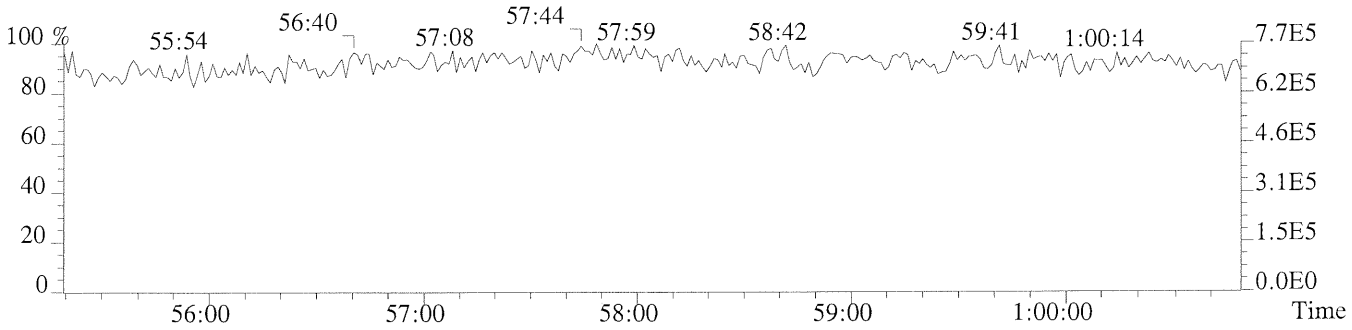
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,664.0,1.00%,F,T)



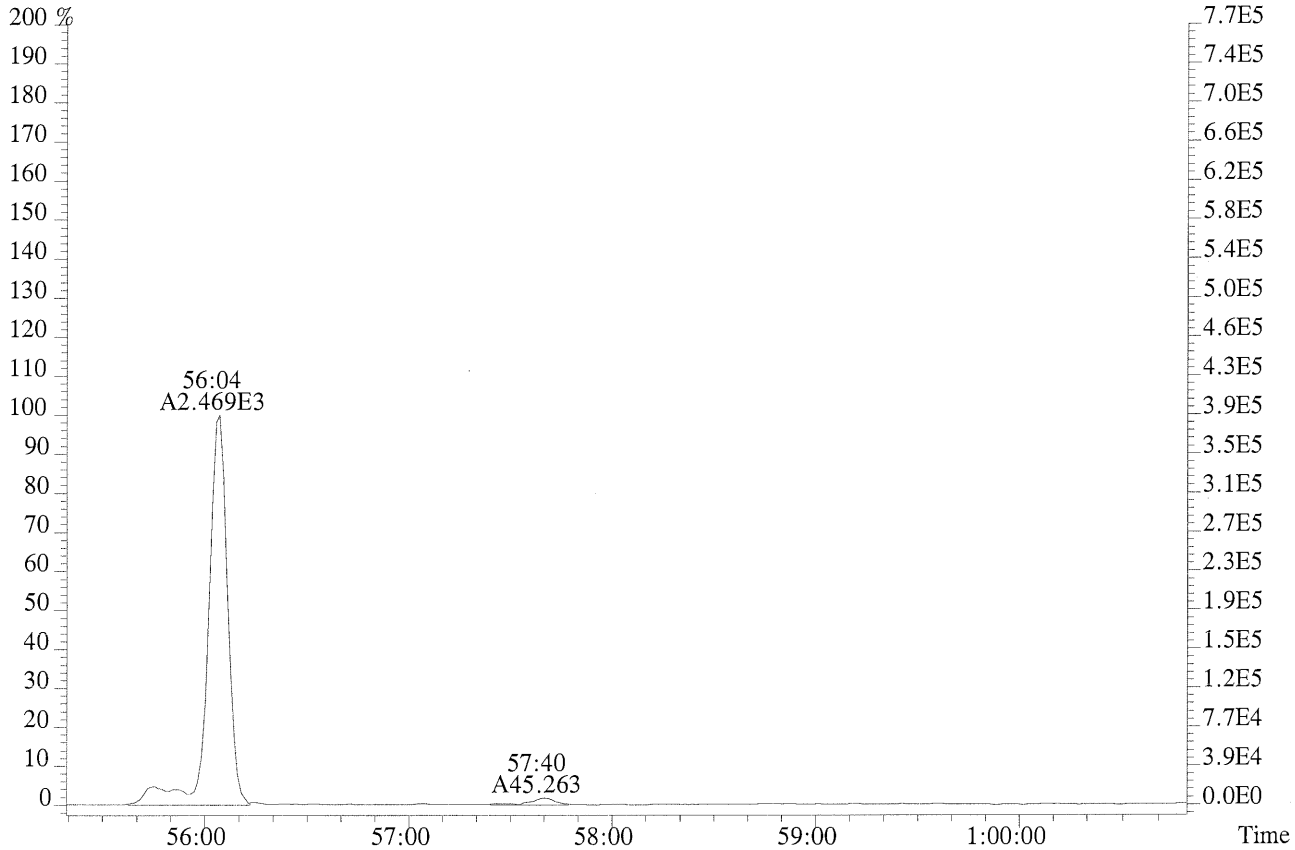
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,640.0,1.00%,F,T)



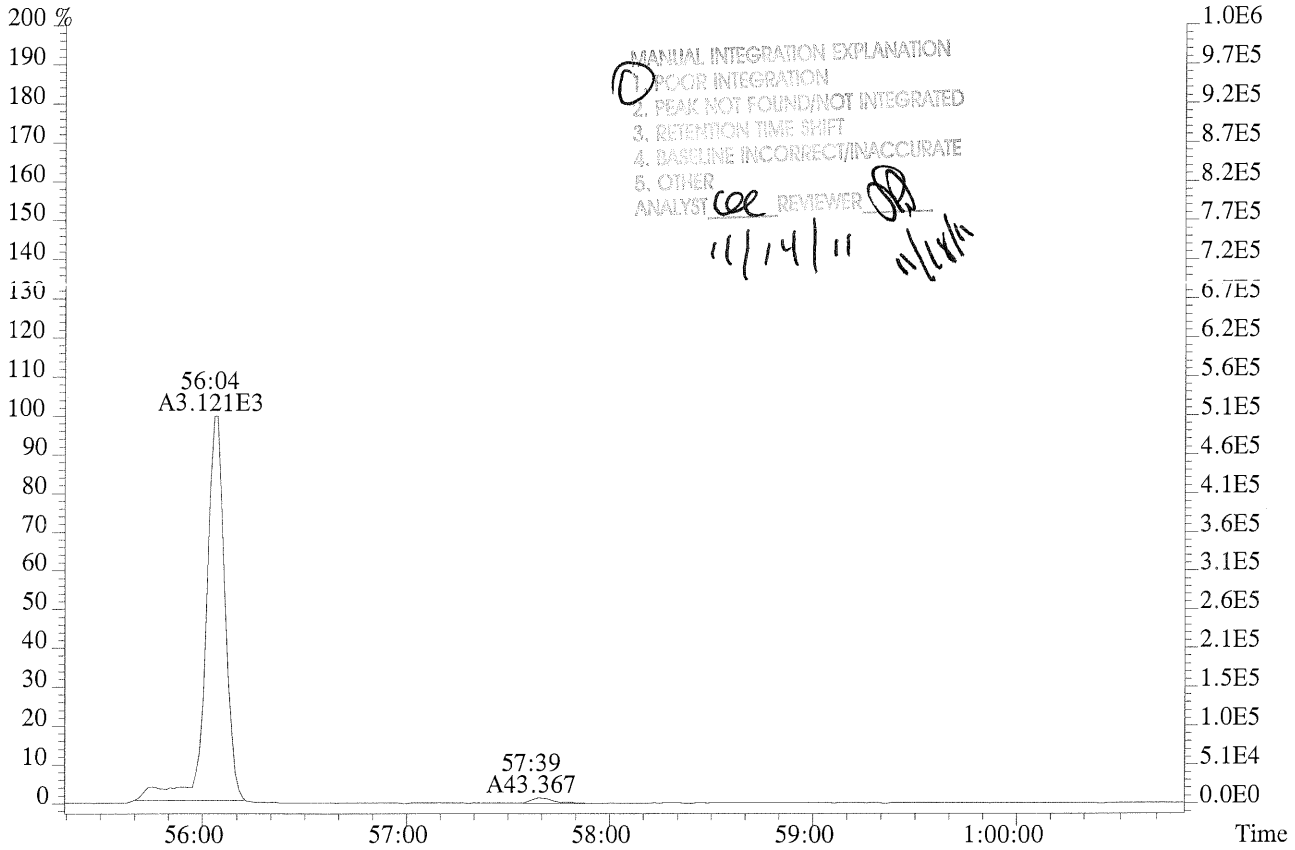
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142067 #1-310 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,664.0,1.00%,F,T)



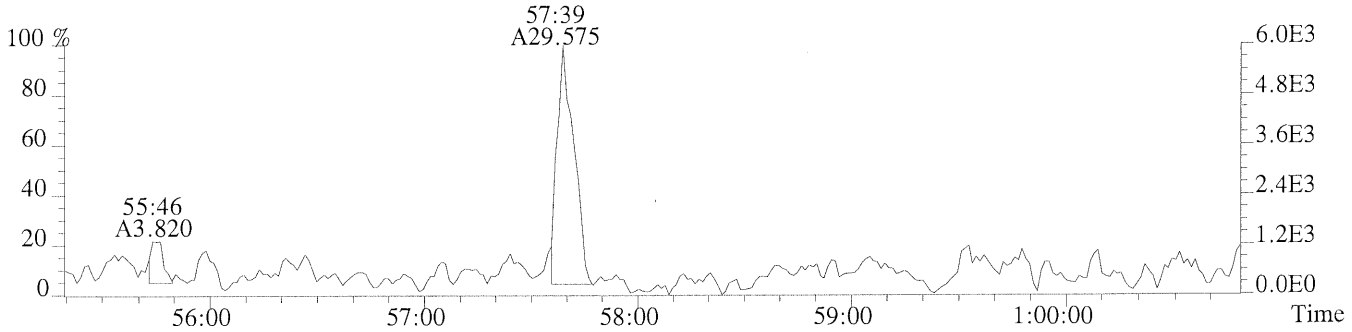
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,640.0,1.00%,F,T)



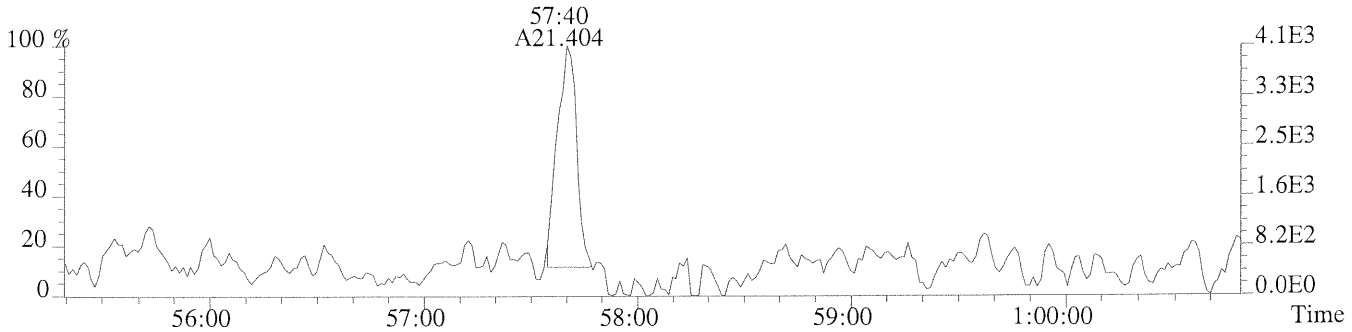
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER
11/14/11 11/14/11

File:U142067 #1-310 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs

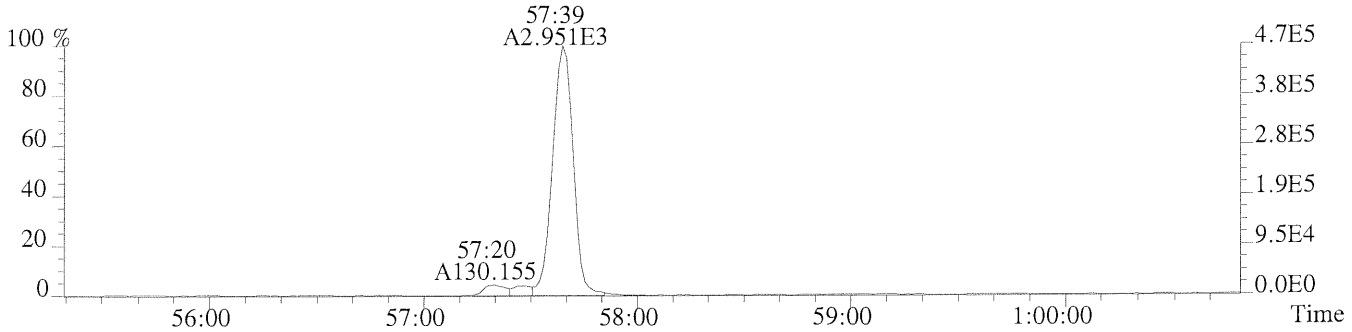
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,640.0,1.00%,F,T)



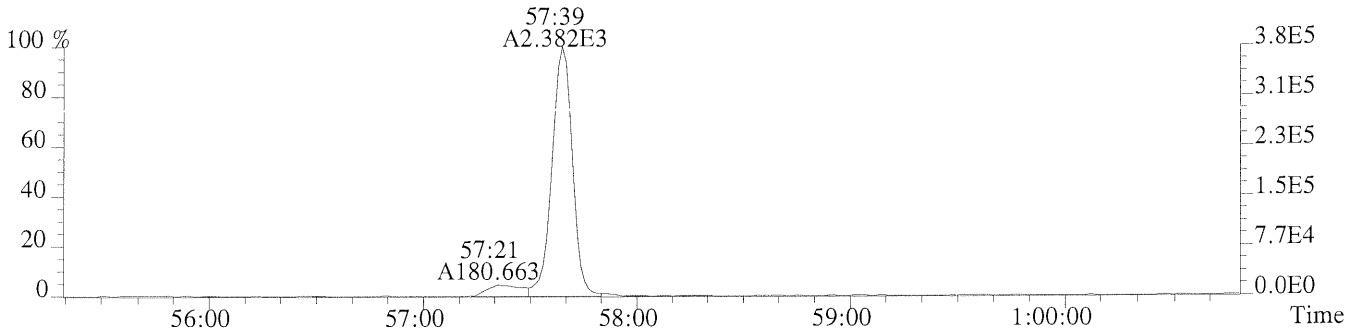
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,624.0,1.00%,F,T)



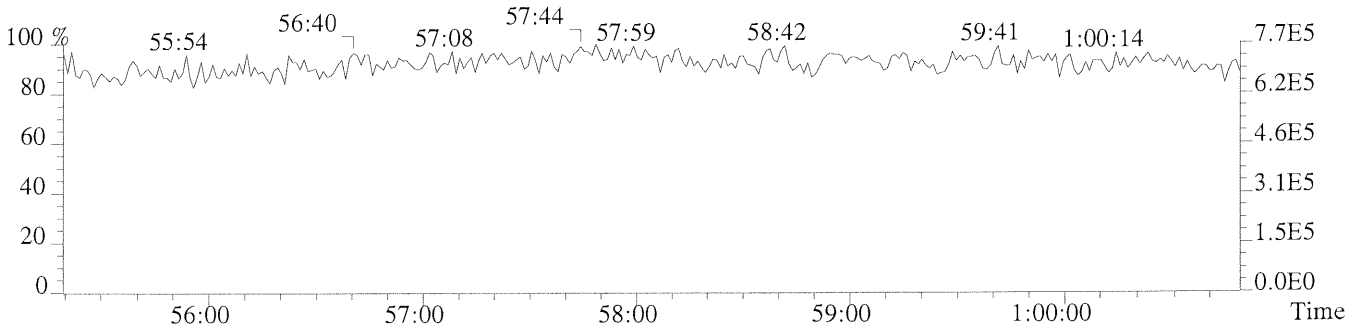
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,720.0,1.00%,F,T)



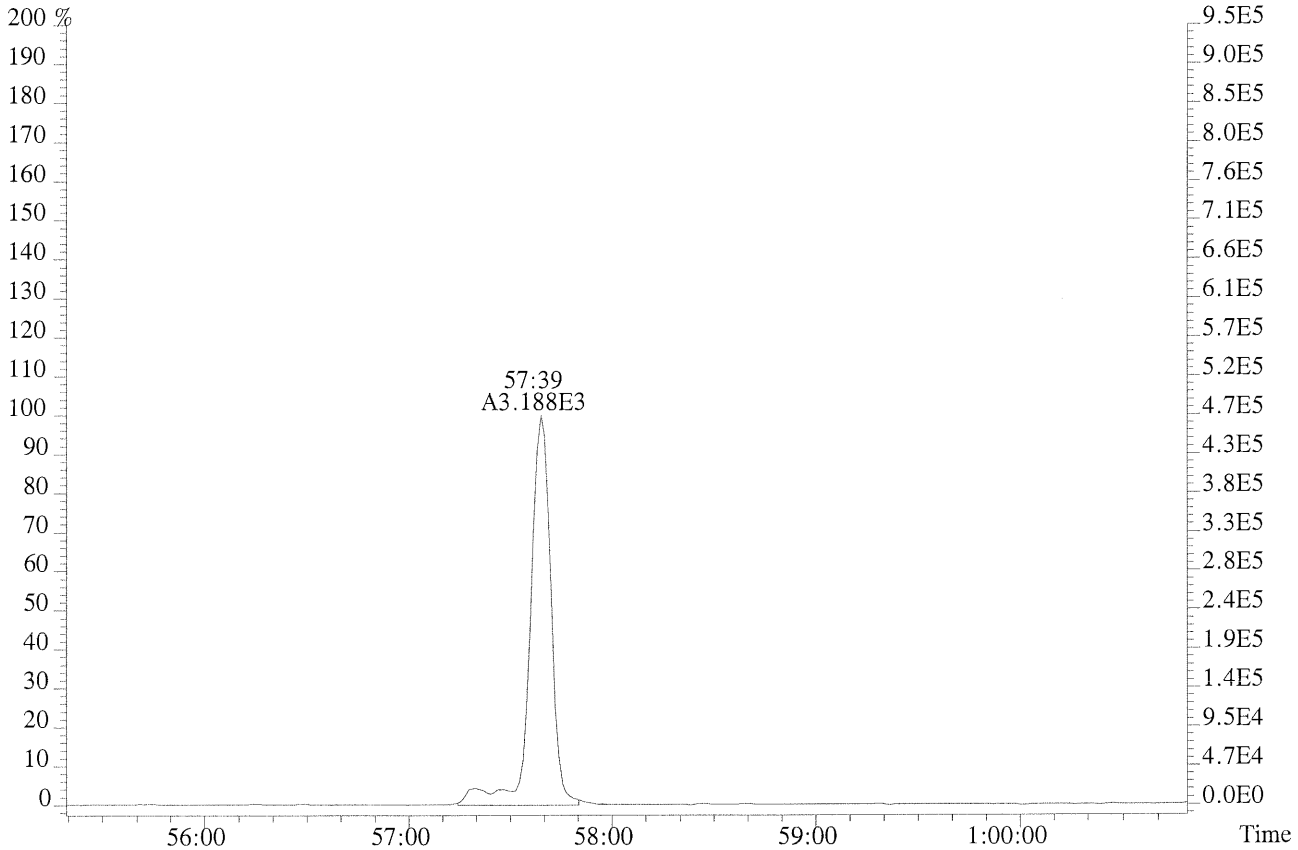
511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,468.0,1.00%,F,T)



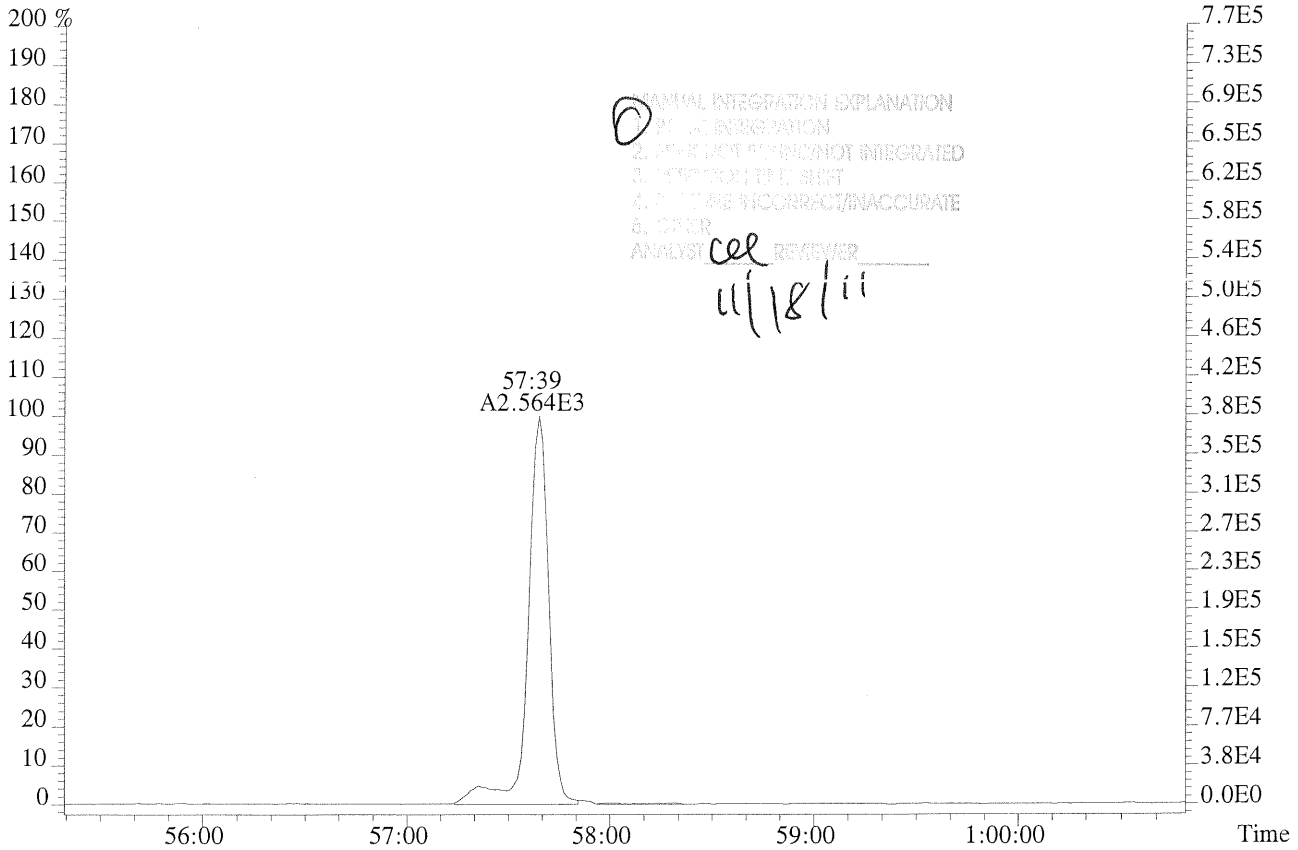
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142067 #1-310 Acq: 8-NOV-2011 11:38:03 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-007 B4-IA2-PCBs
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,720.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,468.0,1.00%,F,T)



MANUAL INTEGRATION EXPLANATION
1. [illegible] INTEGRATION
2. [illegible] NOT [illegible]/NOT INTEGRATED
3. [illegible] TIME SHIFT
4. [illegible] TIME INCORRECT/INACCURATE
5. OTHER
ANALYST cel REVIEWER _____
11/18/11

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4-OA1-PCBs

Run #14 Filename U142068 Samp: 1 Inj: 1 Acquired: 8-NOV-11 12:46:21
Processed: 15-NOV-11 17:59:19 Sample ID: E1101017-008

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	13:25	4.824e+02	1.282e+02	3.76	n	y	1.071
2	1	PCB-2	NotFnd	*	*	*	n	y	0.917
3	1	PCB-3	NotFnd	*	*	*	n	n	1.036
4	1	PCB-4	NotFnd	*	*	*	n	n	1.114
5	1	PCB-10	NotFnd	*	*	*	n	n	1.743
6	2	PCB-9	NotFnd	*	*	*	n	n	1.045
7	2	PCB-7	NotFnd	*	*	*	n	y	1.156
8	2	PCB-6	NotFnd	*	*	*	n	n	1.106
9	2	PCB-5	NotFnd	*	*	*	n	n	1.053
10	2	PCB-8	NotFnd	*	*	*	n	n	1.154
11	2	PCB-14	NotFnd	*	*	*	n	n	1.149
12	2	PCB-11	NotFnd	*	*	*	n	n	0.995
13	2	PCB-12/13	22:05	1.763e+03	1.854e+03	0.95	n	n	1.077
14	2	PCB-15	22:21	1.148e+03	7.280e+02	1.58	y	n	0.977
15	2	PCB-19	NotFnd	*	*	*	n	n	1.001
16	2	PCB-18/30	NotFnd	*	*	*	n	n	1.281
17	2	PCB-17	NotFnd	*	*	*	n	n	1.115
18	2	PCB-27	NotFnd	*	*	*	n	n	1.470
19	2	PCB-24	NotFnd	*	*	*	n	n	1.512
20	2	PCB-16	22:06	6.058e+02	5.505e+02	1.10	y	n	0.993
21	2	PCB-32	NotFnd	*	*	*	n	n	1.572
22	3	PCB-34	NotFnd	*	*	*	n	n	1.190
23	3	PCB-23	NotFnd	*	*	*	n	n	1.300
24	3	PCB-26/29	24:16	7.225e+02	6.936e+02	1.04	y	n	1.267
25	3	PCB-25	24:30	3.346e+02	3.314e+02	1.01	y	n	1.333
26	3	PCB-31	24:49	3.670e+03	3.564e+03	1.03	y	n	1.259
27	3	PCB-20/28	25:07	4.097e+03	3.853e+03	1.06	y	n	1.302
28	3	PCB-21/33	25:21	2.206e+03	2.078e+03	1.06	y	n	1.237
29	3	PCB-22	25:44	1.542e+03	1.465e+03	1.05	y	n	1.223
30	3	PCB-36	NotFnd	*	*	*	n	n	1.210
31	3	PCB-39	NotFnd	*	*	*	n	n	1.351
32	3	PCB-38	NotFnd	*	*	*	n	n	1.126
33	3	PCB-35	NotFnd	*	*	*	n	n	1.083
34	3	PCB-37	29:10	4.317e+02	6.047e+02	0.71	n	n	1.089
35	2	PCB-54	NotFnd	*	*	*	n	n	1.002
36	3	PCB-50/53	24:32	3.769e+02	4.680e+02	0.81	y	n	1.250
37	3	PCB-45/51	25:12	4.016e+02	5.326e+02	0.75	y	n	1.215
38	3	PCB-46	25:30	1.005e+02	1.406e+02	0.72	y	n	1.039
39	3	PCB-52	26:58	2.355e+03	3.060e+03	0.77	y	n	1.217
40	3	PCB-43/73	27:12	3.014e+01	5.540e+01	0.54	n	y	1.489
41	3	PCB-49/69	27:27	9.764e+02	1.298e+03	0.75	y	n	1.402
42	3	PCB-48	27:45	2.925e+02	4.491e+02	0.65	n	n	1.312
43	3	PCB-44/47/65	27:58	1.713e+03	2.229e+03	0.77	y	n	1.378
44	3	PCB-59/62/75	28:17	2.328e+02	2.678e+02	0.87	y	n	1.606
45	3	PCB-42	28:30	3.123e+02	4.210e+02	0.74	y	n	1.138
46	3	PCB-40/41/71	29:00	9.344e+02	1.086e+03	0.86	y	y	1.231
47	3	PCB-64	29:14	7.809e+02	1.028e+03	0.76	y	y	1.626
48	3	PCB-72	NotFnd	*	*	*	n	n	1.584
49	3	PCB-68	NotFnd	*	*	*	n	n	1.742
50	3	PCB-57	NotFnd	*	*	*	n	n	1.496

51	3	PCB-58	NotFnd	*	*	*	n	n	1.609
52	3	PCB-67	NotFnd	*	*	*	n	n	1.638
53	3	PCB-63	31:28	4.188e+01	4.451e+01	0.94	n	n	1.539
54	3	PCB-61/70/74/76	31:48	1.912e+03	2.404e+03	0.80	y	n	1.581
55	3	PCB-66	32:08	8.741e+02	9.681e+02	0.90	n	n	1.476
56	3	PCB-55	NotFnd	*	*	*	n	n	1.512
57	4	PCB-56	32:49	5.643e+02	6.348e+02	0.89	n	n	1.127
58	4	PCB-60	33:02	2.693e+02	3.353e+02	0.80	y	n	1.132
59	4	PCB-80	NotFnd	*	*	*	n	n	1.212
60	4	PCB-79	NotFnd	*	*	*	n	y	1.147
61	4	PCB-78	NotFnd	*	*	*	n	n	1.036
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	36:36	4.944e+01	6.124e+01	0.81	y	n	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	NotFnd	*	*	*	n	y	1.469
66	3	PCB-103	NotFnd	*	*	*	n	y	1.219
67	3	PCB-94	NotFnd	*	*	*	n	n	1.099
68	3	PCB-95	30:55	9.918e+02	5.996e+02	1.65	y	y	1.165
69	3	PCB-93/100	NotFnd	*	*	*	n	n	1.175
70	3	PCB-98/102	31:17	2.660e+01	1.764e+01	1.51	y	y	1.160
71	3	PCB-88/91	31:48	1.769e+02	8.216e+01	2.15	n	y	1.130
72	3	PCB-84	32:01	2.087e+02	1.219e+02	1.71	y	y	0.979
73	3	PCB-89	NotFnd	*	*	*	n	y	1.039
74	4	PCB-121	NotFnd	*	*	*	n	n	1.536
75	4	PCB-92	33:19	1.120e+02	9.145e+01	1.23	n	n	1.047
76	4	PCB-90/101/113	33:56	1.325e+03	8.737e+02	1.52	y	n	1.202
77	4	PCB-83/99	34:30	4.360e+02	2.910e+02	1.50	y	y	1.100
78	4	PCB-112	NotFnd	*	*	*	n	n	1.427
79	4	PCB-86/87/97/109/119/125	35:07	6.659e+02	4.561e+02	1.46	y	y	1.241
80	4	PCB-117	NotFnd	*	*	*	n	n	1.461
81	4	PCB-85/116	35:45	2.391e+02	1.407e+02	1.70	y	n	1.249
82	4	PCB-110/115	35:55	1.037e+03	6.439e+02	1.61	y	n	1.488
83	4	PCB-82	36:14	7.599e+01	4.993e+01	1.52	y	n	0.955
84	4	PCB-111	NotFnd	*	*	*	n	n	1.519
85	4	PCB-120	NotFnd	*	*	*	n	n	1.397
86	5	PCB-108/124	NotFnd	*	*	*	n	n	0.953
87	5	PCB-107	NotFnd	*	*	*	n	n	0.985
88	5	PCB-123	NotFnd	*	*	*	n	n	1.018
89	5	PCB-106	NotFnd	*	*	*	n	n	0.927
90	5	PCB-118	38:53	8.362e+02	5.247e+02	1.59	y	n	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	0.862
92	5	PCB-114	NotFnd	*	*	*	n	n	0.991
93	5	PCB-105	40:03	2.161e+02	1.127e+02	1.92	n	n	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	0.857
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.887
98	4	PCB-150	NotFnd	*	*	*	n	n	2.019
99	4	PCB-136	34:24	1.778e+02	1.421e+02	1.25	y	n	1.815
100	4	PCB-145	NotFnd	*	*	*	n	n	1.971
101	4	PCB-148	NotFnd	*	*	*	n	n	1.429
102	4	PCB-135/151	36:49	2.788e+02	2.208e+02	1.26	y	y	1.439
103	4	PCB-154	NotFnd	*	*	*	n	n	1.637
104	4	PCB-144	NotFnd	*	*	*	n	n	1.431
105	5	PCB-147/149	37:45	6.992e+02	5.598e+02	1.25	y	y	1.453
106	5	PCB-134	37:55	3.779e+01	2.627e+01	1.44	n	y	1.118
107	5	PCB-143	NotFnd	*	*	*	n	y	1.332

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.434
109	5	PCB-131	NotFnd	*	*	*	n	n	1.228
110	5	PCB-142	NotFnd	*	*	*	n	n	1.176
111	5	PCB-132	38:59	1.974e+02	1.755e+02	1.12	y	y	1.283
112	5	PCB-133	NotFnd	*	*	*	n	n	1.200
113	5	PCB-165	NotFnd	*	*	*	n	n	1.667
114	5	PCB-146	40:07	4.860e+01	5.136e+01	0.95	n	y	1.457
115	5	PCB-161	NotFnd	*	*	*	n	n	1.797
116	5	PCB-153/168	40:44	7.237e+02	5.960e+02	1.21	y	y	1.696
117	5	PCB-141	40:55	1.430e+02	1.083e+02	1.32	y	y	1.367
118	5	PCB-130	41:21	1.852e+01	1.694e+01	1.09	y	y	1.085
119	5	PCB-137	41:34	2.539e+01	2.051e+01	1.24	y	y	1.264
120	5	PCB-164	41:39	3.985e+01	3.581e+01	1.11	y	y	1.658
121	5	PCB-129/138/163	41:58	5.319e+02	4.175e+02	1.27	y	n	1.354
122	5	PCB-160	NotFnd	*	*	*	n	n	1.613
123	5	PCB-158	42:23	4.419e+01	4.420e+01	1.00	n	y	1.734
124	5	PCB-128/166	43:13	6.811e+01	5.056e+01	1.35	y	y	1.380
125	6	PCB-159	NotFnd	*	*	*	n	n	0.865
126	6	PCB-162	NotFnd	*	*	*	n	n	0.987
127	6	PCB-167	NotFnd	*	*	*	n	n	1.008
128	6	PCB-156/157	46:03	3.622e+01	2.168e+01	1.67	n	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	39:42	1.250e+02	1.392e+02	0.90	y	n	1.356
132	5	PCB-184	NotFnd	*	*	*	n	n	1.595
133	5	PCB-176	40:37	2.720e+01	3.355e+01	0.81	n	n	1.359
134	5	PCB-186	NotFnd	*	*	*	n	n	1.429
135	5	PCB-178	42:25	2.340e+01	2.753e+01	0.85	n	y	0.960
136	5	PCB-175	NotFnd	*	*	*	n	n	1.003
137	5	PCB-187	43:19	1.574e+02	1.662e+02	0.95	y	y	1.145
138	5	PCB-182	NotFnd	*	*	*	n	n	1.039
139	6	PCB-183	43:55	8.082e+01	8.155e+01	0.99	y	y	0.669
140	6	PCB-185	NotFnd	*	*	*	n	n	0.668
141	6	PCB-174	44:09	8.091e+01	7.054e+01	1.15	y	y	0.633
142	6	PCB-177	44:35	4.419e+01	3.087e+01	1.43	n	n	0.605
143	6	PCB-181	NotFnd	*	*	*	n	n	0.666
144	6	PCB-171/173	NotFnd	*	*	*	n	y	0.575
145	6	PCB-172	NotFnd	*	*	*	n	n	0.547
146	6	PCB-192	NotFnd	*	*	*	n	n	0.755
147	6	PCB-180/193	47:27	1.081e+02	9.426e+01	1.15	y	n	0.689
148	6	PCB-191	NotFnd	*	*	*	n	n	0.745
149	6	PCB-170	48:42	2.375e+01	2.321e+01	1.02	y	n	0.514
150	6	PCB-190	NotFnd	*	*	*	n	n	0.703
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	44:41	3.134e+01	2.932e+01	1.07	n	n	0.863
153	6	PCB-201	NotFnd	*	*	*	n	n	1.206
154	6	PCB-204	NotFnd	*	*	*	n	n	1.172
155	6	PCB-197	NotFnd	*	*	*	n	n	1.259
156	6	PCB-200	NotFnd	*	*	*	n	n	1.212
157	6	PCB-198/199	NotFnd	*	*	*	n	y	0.838
158	6	PCB-196	NotFnd	*	*	*	n	y	0.819
159	6	PCB-203	NotFnd	*	*	*	n	y	0.975
160	6	PCB-195	NotFnd	*	*	*	n	n	0.743
161	6	PCB-194	NotFnd	*	*	*	n	n	0.757
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	NotFnd	*	*	*	n	n	0.880
164	6	PCB-207	NotFnd	*	*	*	n	n	1.093

Filename U142068 Acquired: 8-NOV-11 12:46:21

165	7	PCB-206	NotFnd	*	*	*	n	n	0.931
166	7	PCB-209	NotFnd	*	*	*	n	y	0.894
167	1	PCB-1L	13:24	2.553e+04	8.326e+03	3.07	y	n	1.220
168	1	PCB-3L	15:42	3.186e+04	1.024e+04	3.11	y	n	1.173
169	1	PCB-4L	15:55	1.163e+04	7.545e+03	1.54	y	y	0.803
170	2	PCB-15L	22:20	1.921e+04	1.222e+04	1.57	y	n	0.962
171	2	PCB-19L	19:22	6.807e+03	6.390e+03	1.07	y	n	0.636
172	3	PCB-37L	29:09	1.185e+04	1.094e+04	1.08	y	n	1.144
173	2	PCB-54L	22:33	5.190e+03	6.411e+03	0.81	y	n	1.140
174	4	PCB-81L	36:00	6.781e+03	8.341e+03	0.81	y	y	0.947
175	4	PCB-77L	36:34	6.928e+03	8.774e+03	0.79	y	n	0.949
176	3	PCB-104L	27:53	8.405e+03	5.266e+03	1.60	y	n	1.397
177	5	PCB-123L	38:33	1.023e+04	6.587e+03	1.55	y	n	1.029
178	5	PCB-118L	38:52	1.071e+04	6.791e+03	1.58	y	n	1.077
179	5	PCB-114L	39:23	1.145e+04	6.949e+03	1.65	y	n	1.075
180	5	PCB-105L	40:01	8.826e+03	5.458e+03	1.62	y	n	1.013
181	5	PCB-126L	43:06	1.076e+04	6.858e+03	1.57	y	y	0.898
182	4	PCB-155L	33:40	6.696e+03	5.455e+03	1.23	y	n	1.637
183	6	PCB-167L	44:55	9.571e+03	7.461e+03	1.28	y	y	0.882
184	6	PCB-156/157L	46:03	1.717e+04	1.363e+04	1.26	y	n	0.818
185	6	PCB-169L	49:17	7.560e+03	6.104e+03	1.24	y	n	0.716
186	5	PCB-188L	39:21	7.084e+03	6.615e+03	1.07	y	n	2.358
187	6	PCB-189L	51:48	6.878e+03	6.651e+03	1.03	y	n	1.307
188	6	PCB-202L	44:41	6.640e+03	7.366e+03	0.90	y	n	1.804
189	6	PCB-205L	54:20	4.527e+03	5.008e+03	0.90	y	n	1.363
190	6	PCB-208L	51:19	4.201e+03	5.363e+03	0.78	y	n	1.337
191	7	PCB-206L	56:05	4.172e+03	5.270e+03	0.79	y	n	0.998
192	7	PCB-209L	57:40	5.094e+03	4.225e+03	1.21	y	n	1.563
193	3	PCB-28L	25:05	1.573e+04	1.501e+04	1.05	y	n	1.387
194	4	PCB-111L	36:37	7.755e+03	4.956e+03	1.56	y	n	1.238
195	5	PCB-178L	42:24	4.467e+03	4.328e+03	1.03	y	n	0.953
196	2	PCB-9L	18:15	2.040e+04	1.285e+04	1.59	y	n	-
197	3	PCB-52L	26:57	1.011e+04	1.223e+04	0.83	y	n	-
198	4	PCB-101L	33:54	8.965e+03	5.550e+03	1.62	y	n	-
199	5	PCB-138L	41:56	8.779e+03	6.997e+03	1.25	y	n	-
200	6	PCB-194L	53:52	4.845e+03	5.171e+03	0.94	y	n	-

-- Sample Calculation--

EDL

PCB-209 = (9.8e+02 + 7.96e+02) x 10000 pg x 1 X2.5 / (5.~~094e~~+03 + 4.~~225e~~+03) x (0.5 g) x (1L ~~/ 1000 mL)~~ x 0.8938 = 63.5 pg

8.54e+05 + 7.110e+05

11/19/11

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sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4CS-OA1-PCBs

Run #5 Filename U142068#1 Samp: 1 Inj: 1 Acquired: 8-NOV-11 12:46:21
Processed: 16-NOV-11 17:49:02 Sample ID: E1101017-008

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:56	4.400e+03	2.686e+03	1.64	yes	1.101	yes
2	70L	PCB-70L	31:47	7.707e+03	9.542e+03	0.81	yes	1.584	no
3	15L	PCB-15L	22:20	1.921e+04	1.222e+04	1.57	yes		no
4	81L	PCB-81L	36:00	6.781e+03	8.341e+03	0.81	yes		yes

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	3.18e+05	1.43e+03	2.2e+02	1.91e+05	1.60e+03	1.2e+02
2	PCB-70L	1.11e+06	3.98e+03	2.8e+02	1.35e+06	2.82e+03	4.8e+02
3	PCB-15L	5.62e+06	1.43e+03	3.9e+03	3.60e+06	1.60e+03	2.3e+03
4	PCB-81L	9.34e+05	3.27e+03	2.9e+02	1.16e+06	2.95e+03	3.9e+02

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(4.40e+03 + 2.69e+03) \times 10000\ \text{pg} \quad 1}{(1.92e+04 + 1.22e+04) \times \quad \text{L} \quad \times 1.101} = 2050\ \text{pg}\ \cancel{\text{pg/L}}$$

11/19/11

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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4-OA1-PCBs

Run #14 Filename U142068#1 Samp: 1 Inj: 1 Acquired: 8-NOV-11 12:46:21

Processed: 15-NOV-11 17:59:19 LAB. ID: E1101017-008

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	3.87e+04	1.56e+03	2.5e+01	1.20e+04	3.13e+03	3.8e+00
2	PCB-2	*	1.56e+03	*	*	3.13e+03	*
3	PCB-3	*	1.56e+03	*	*	3.13e+03	*
4	PCB-4	*	2.60e+03	*	*	5.88e+04	*
5	PCB-10	*	2.60e+03	*	*	5.88e+04	*
6	PCB-9	*	1.47e+03	*	*	3.98e+04	*
7	PCB-7	*	1.47e+03	*	*	3.98e+04	*
8	PCB-6	*	1.47e+03	*	*	3.98e+04	*
9	PCB-5	*	1.47e+03	*	*	3.98e+04	*
10	PCB-8	*	1.47e+03	*	*	3.98e+04	*
11	PCB-14	*	1.47e+03	*	*	3.98e+04	*
12	PCB-11	*	1.47e+03	*	*	3.98e+04	*
13	PCB-12/13	5.35e+05	1.47e+03	3.6e+02	4.26e+05	3.98e+04	1.1e+01
14	PCB-15	3.29e+05	1.47e+03	2.2e+02	2.08e+05	3.98e+04	5.2e+00
15	PCB-19	*	1.76e+04	*	*	1.31e+03	*
16	PCB-18/30	*	1.76e+04	*	*	1.31e+03	*
17	PCB-17	*	1.76e+04	*	*	1.31e+03	*
18	PCB-27	*	1.76e+04	*	*	1.31e+03	*
19	PCB-24	*	1.76e+04	*	*	1.31e+03	*
20	PCB-16	1.86e+05	1.76e+04	1.1e+01	1.75e+05	1.31e+03	1.3e+02
21	PCB-32	*	1.76e+04	*	*	1.31e+03	*
22	PCB-34	*	2.33e+04	*	*	5.88e+03	*
23	PCB-23	*	2.33e+04	*	*	5.88e+03	*
24	PCB-26/29	1.35e+05	2.33e+04	5.8e+00	1.38e+05	5.88e+03	2.3e+01
25	PCB-25	6.82e+04	2.33e+04	2.9e+00	5.74e+04	5.88e+03	9.8e+00
26	PCB-31	6.26e+05	2.33e+04	2.7e+01	5.96e+05	5.88e+03	1.0e+02
27	PCB-20/28	6.26e+05	2.33e+04	2.7e+01	5.94e+05	5.88e+03	1.0e+02
28	PCB-21/33	3.28e+05	2.33e+04	1.4e+01	3.13e+05	5.88e+03	5.3e+01
29	PCB-22	2.24e+05	2.33e+04	9.6e+00	2.15e+05	5.88e+03	3.7e+01
30	PCB-36	*	2.33e+04	*	*	5.88e+03	*
31	PCB-39	*	2.33e+04	*	*	5.88e+03	*
32	PCB-38	*	2.33e+04	*	*	5.88e+03	*
33	PCB-35	*	2.33e+04	*	*	5.88e+03	*
34	PCB-37	8.11e+04	2.33e+04	3.5e+00	9.28e+04	5.88e+03	1.6e+01
35	PCB-54	*	2.75e+03	*	*	3.55e+03	*
36	PCB-50/53	7.04e+04	2.08e+03	3.4e+01	8.03e+04	1.86e+03	4.3e+01
37	PCB-45/51	4.83e+04	2.08e+03	2.3e+01	6.83e+04	1.86e+03	3.7e+01
38	PCB-46	1.61e+04	2.08e+03	7.7e+00	2.12e+04	1.86e+03	1.1e+01
39	PCB-52	3.33e+05	2.08e+03	1.6e+02	4.44e+05	1.86e+03	2.4e+02
40	PCB-43/73	6.05e+03	2.08e+03	2.9e+00	1.06e+04	1.86e+03	5.7e+00
41	PCB-49/69	1.31e+05	2.08e+03	6.3e+01	1.64e+05	1.86e+03	8.8e+01
42	PCB-48	4.40e+04	2.08e+03	2.1e+01	5.82e+04	1.86e+03	3.1e+01
43	PCB-44/47/65	2.15e+05	2.08e+03	1.0e+02	2.66e+05	1.86e+03	1.4e+02
44	PCB-59/62/75	2.48e+04	2.08e+03	1.2e+01	2.81e+04	1.86e+03	1.5e+01
45	PCB-42	5.34e+04	2.08e+03	2.6e+01	7.09e+04	1.86e+03	3.8e+01
46	PCB-40/41/71	9.63e+04	2.08e+03	4.6e+01	1.10e+05	1.86e+03	5.9e+01
47	PCB-64	1.11e+05	2.08e+03	5.3e+01	1.53e+05	1.86e+03	8.2e+01

Run #14 Filename U142068#1 Samp: 1 Acquired: 8-NOV-11 12:46:21

48	PCB-72	*	2.08e+03	*	*	1.86e+03	*
49	PCB-68	*	2.08e+03	*	*	1.86e+03	*
50	PCB-57	*	2.08e+03	*	*	1.86e+03	*
51	PCB-58	*	2.08e+03	*	*	1.86e+03	*
52	PCB-67	*	2.08e+03	*	*	1.86e+03	*
53	PCB-63	7.50e+03	2.08e+03	3.6e+00	9.16e+03	1.86e+03	4.9e+00
54	PCB-61/70/74/76	1.99e+05	2.08e+03	9.5e+01	2.47e+05	1.86e+03	1.3e+02
55	PCB-66	1.22e+05	2.08e+03	5.8e+01	1.57e+05	1.86e+03	8.4e+01
56	PCB-55	*	2.08e+03	*	*	1.86e+03	*
57	PCB-56	8.29e+04	1.52e+03	5.4e+01	9.19e+04	1.32e+03	7.0e+01
58	PCB-60	4.03e+04	1.52e+03	2.6e+01	5.12e+04	1.32e+03	3.9e+01
59	PCB-80	*	1.52e+03	*	*	1.32e+03	*
60	PCB-79	*	1.52e+03	*	*	1.32e+03	*
61	PCB-78	*	1.52e+03	*	*	1.32e+03	*
62	PCB-81	*	1.52e+03	*	*	1.32e+03	*
63	PCB-77	7.49e+03	1.52e+03	4.9e+00	1.01e+04	1.32e+03	7.6e+00
64	PCB-104	*	7.84e+02	*	*	8.64e+02	*
65	PCB-96	*	7.84e+02	*	*	8.64e+02	*
66	PCB-103	*	7.84e+02	*	*	8.64e+02	*
67	PCB-94	*	7.84e+02	*	*	8.64e+02	*
68	PCB-95	1.40e+05	7.84e+02	1.8e+02	8.76e+04	8.64e+02	1.0e+02
69	PCB-93/100	*	7.84e+02	*	*	8.64e+02	*
70	PCB-98/102	4.97e+03	7.84e+02	6.3e+00	3.54e+03	8.64e+02	4.1e+00
71	PCB-88/91	2.36e+04	7.84e+02	3.0e+01	1.37e+04	8.64e+02	1.6e+01
72	PCB-84	3.33e+04	7.84e+02	4.3e+01	2.05e+04	8.64e+02	2.4e+01
73	PCB-89	*	7.84e+02	*	*	8.64e+02	*
74	PCB-121	*	1.54e+03	*	*	8.60e+02	*
75	PCB-92	1.54e+04	1.54e+03	1.0e+01	1.28e+04	8.60e+02	1.5e+01
76	PCB-90/101/113	1.80e+05	1.54e+03	1.2e+02	1.20e+05	8.60e+02	1.4e+02
77	PCB-83/99	5.27e+04	1.54e+03	3.4e+01	3.41e+04	8.60e+02	4.0e+01
78	PCB-112	*	1.54e+03	*	*	8.60e+02	*
79	CB-86/87/97/109/119/125	4.87e+04	1.54e+03	3.2e+01	3.53e+04	8.60e+02	4.1e+01
80	PCB-117	*	1.54e+03	*	*	8.60e+02	*
81	PCB-85/116	3.88e+04	1.54e+03	2.5e+01	2.17e+04	8.60e+02	2.5e+01
82	PCB-110/115	1.59e+05	1.54e+03	1.0e+02	9.57e+04	8.60e+02	1.1e+02
83	PCB-82	1.19e+04	1.54e+03	7.7e+00	8.92e+03	8.60e+02	1.0e+01
84	PCB-111	*	1.54e+03	*	*	8.60e+02	*
85	PCB-120	*	1.54e+03	*	*	8.60e+02	*
86	PCB-108/124	*	1.73e+03	*	*	2.45e+03	*
87	PCB-107	*	1.73e+03	*	*	2.45e+03	*
88	PCB-123	*	1.73e+03	*	*	2.45e+03	*
89	PCB-106	*	1.73e+03	*	*	2.45e+03	*
90	PCB-118	1.30e+05	1.73e+03	7.5e+01	8.54e+04	2.45e+03	3.5e+01
91	PCB-122	*	1.73e+03	*	*	2.45e+03	*
92	PCB-114	*	1.73e+03	*	*	2.45e+03	*
93	PCB-105	3.46e+04	1.73e+03	2.0e+01	2.17e+04	2.45e+03	8.9e+00
94	PCB-127	*	1.73e+03	*	*	2.45e+03	*
95	PCB-126	*	1.73e+03	*	*	2.45e+03	*
96	PCB-155	*	7.68e+02	*	*	8.44e+02	*
97	PCB-152	*	7.68e+02	*	*	8.44e+02	*
98	PCB-150	*	7.68e+02	*	*	8.44e+02	*
99	PCB-136	2.65e+04	7.68e+02	3.4e+01	2.14e+04	8.44e+02	2.5e+01
100	PCB-145	*	7.68e+02	*	*	8.44e+02	*
101	PCB-148	*	7.68e+02	*	*	8.44e+02	*
102	PCB-135/151	2.95e+04	7.68e+02	3.8e+01	3.04e+04	8.44e+02	3.6e+01
103	PCB-154	*	7.68e+02	*	*	8.44e+02	*
104	PCB-144	*	7.68e+02	*	*	8.44e+02	*

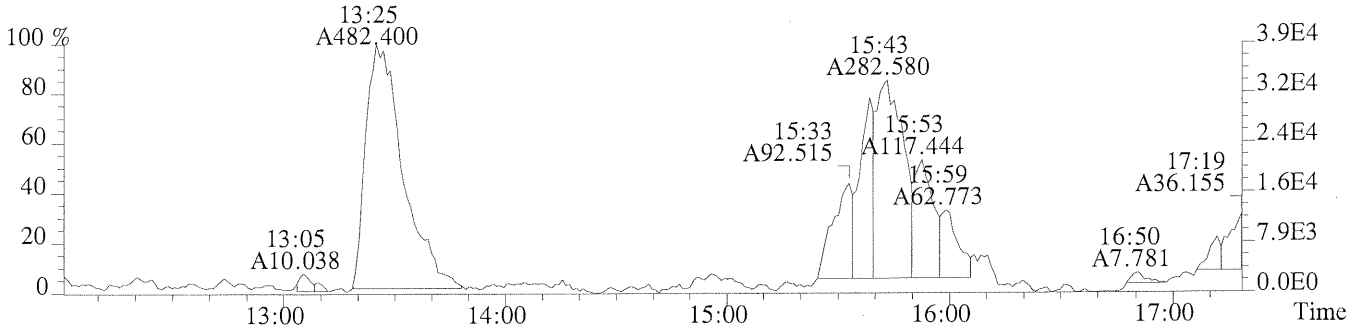
105	PCB-147/149	1.11e+05	1.10e+03	1.0e+02	8.87e+04	7.84e+02	1.1e+02
106	PCB-134	6.32e+03	1.10e+03	5.7e+00	4.48e+03	7.84e+02	5.7e+00
107	PCB-143	*	1.10e+03	*	*	7.84e+02	*
108	PCB-139/140	*	1.10e+03	*	*	7.84e+02	*
109	PCB-131	*	1.10e+03	*	*	7.84e+02	*
110	PCB-142	*	1.10e+03	*	*	7.84e+02	*
111	PCB-132	3.14e+04	1.10e+03	2.9e+01	3.15e+04	7.84e+02	4.0e+01
112	PCB-133	*	1.10e+03	*	*	7.84e+02	*
113	PCB-165	*	1.10e+03	*	*	7.84e+02	*
114	PCB-146	8.29e+03	1.10e+03	7.5e+00	9.33e+03	7.84e+02	1.2e+01
115	PCB-161	*	1.10e+03	*	*	7.84e+02	*
116	PCB-153/168	1.09e+05	1.10e+03	9.9e+01	8.87e+04	7.84e+02	1.1e+02
117	PCB-141	2.41e+04	1.10e+03	2.2e+01	1.81e+04	7.84e+02	2.3e+01
118	PCB-130	3.17e+03	1.10e+03	2.9e+00	3.80e+03	7.84e+02	4.9e+00
119	PCB-137	5.72e+03	1.10e+03	5.2e+00	3.83e+03	7.84e+02	4.9e+00
120	PCB-164	6.54e+03	1.10e+03	5.9e+00	6.46e+03	7.84e+02	8.2e+00
121	PCB-129/138/163	7.79e+04	1.10e+03	7.1e+01	5.84e+04	7.84e+02	7.5e+01
122	PCB-160	*	1.10e+03	*	*	7.84e+02	*
123	PCB-158	8.41e+03	1.10e+03	7.6e+00	5.79e+03	7.84e+02	7.4e+00
124	PCB-128/166	1.20e+04	1.10e+03	1.1e+01	7.11e+03	7.84e+02	9.1e+00
125	PCB-159	*	1.02e+03	*	*	1.26e+03	*
126	PCB-162	*	1.02e+03	*	*	1.26e+03	*
127	PCB-167	*	1.02e+03	*	*	1.26e+03	*
128	PCB-156/157	6.88e+03	1.02e+03	6.7e+00	5.13e+03	1.26e+03	4.1e+00
129	PCB-169	*	1.02e+03	*	*	1.26e+03	*
130	PCB-188	*	9.40e+02	*	*	9.64e+02	*
131	PCB-179	1.84e+04	9.40e+02	2.0e+01	2.15e+04	9.64e+02	2.2e+01
132	PCB-184	*	9.40e+02	*	*	9.64e+02	*
133	PCB-176	3.50e+03	9.40e+02	3.7e+00	5.77e+03	9.64e+02	6.0e+00
134	PCB-186	*	9.40e+02	*	*	9.64e+02	*
135	PCB-178	4.34e+03	9.40e+02	4.6e+00	4.05e+03	9.64e+02	4.2e+00
136	PCB-175	*	9.40e+02	*	*	9.64e+02	*
137	PCB-187	2.36e+04	9.40e+02	2.5e+01	2.48e+04	9.64e+02	2.6e+01
138	PCB-182	*	9.40e+02	*	*	9.64e+02	*
139	PCB-183	1.45e+04	1.26e+03	1.1e+01	1.53e+04	1.54e+03	9.9e+00
140	PCB-185	*	1.26e+03	*	*	1.54e+03	*
141	PCB-174	1.31e+04	1.26e+03	1.0e+01	1.54e+04	1.54e+03	1.0e+01
142	PCB-177	7.86e+03	1.26e+03	6.2e+00	6.18e+03	1.54e+03	4.0e+00
143	PCB-181	*	1.26e+03	*	*	1.54e+03	*
144	PCB-171/173	*	1.26e+03	*	*	1.54e+03	*
145	PCB-172	*	1.26e+03	*	*	1.54e+03	*
146	PCB-192	*	1.26e+03	*	*	1.54e+03	*
147	PCB-180/193	2.10e+04	1.26e+03	1.7e+01	2.23e+04	1.54e+03	1.4e+01
148	PCB-191	*	1.26e+03	*	*	1.54e+03	*
149	PCB-170	4.31e+03	1.26e+03	3.4e+00	5.68e+03	1.54e+03	3.7e+00
150	PCB-190	*	1.26e+03	*	*	1.54e+03	*
151	PCB-189	*	1.26e+03	*	*	1.54e+03	*
152	PCB-202	6.62e+03	8.36e+02	7.9e+00	5.64e+03	9.64e+02	5.9e+00
153	PCB-201	*	8.36e+02	*	*	9.64e+02	*
154	PCB-204	*	8.36e+02	*	*	9.64e+02	*
155	PCB-197	*	8.36e+02	*	*	9.64e+02	*
156	PCB-200	*	8.36e+02	*	*	9.64e+02	*
157	PCB-198/199	*	8.36e+02	*	*	9.64e+02	*
158	PCB-196	*	8.36e+02	*	*	9.64e+02	*
159	PCB-203	*	8.36e+02	*	*	9.64e+02	*
160	PCB-195	*	8.36e+02	*	*	9.64e+02	*
161	PCB-194	*	8.36e+02	*	*	9.64e+02	*
162	PCB-205	*	8.36e+02	*	*	9.64e+02	*

Run #14 Filename U142068#1 Samp: 1 Acquired: 8-NOV-11 12:46:21

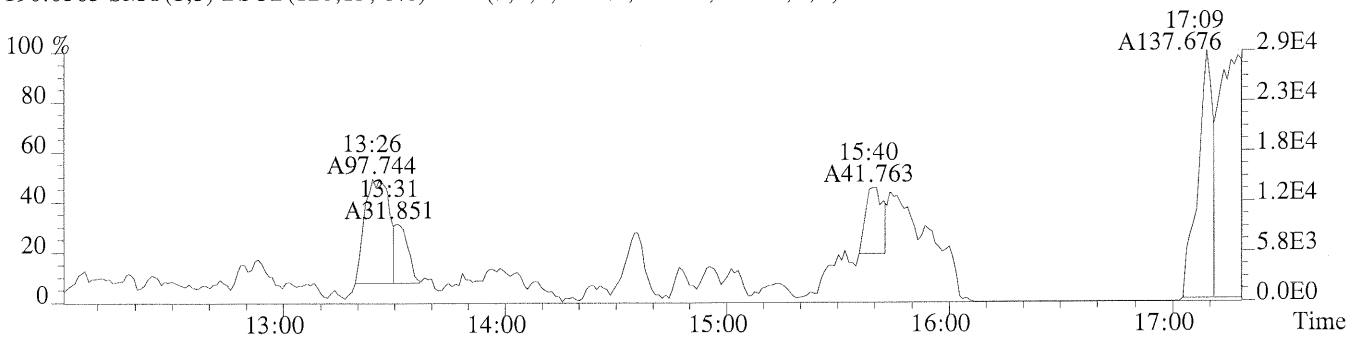
163	PCB-208	*	1.14e+03	*	*	1.12e+03	*
164	PCB-207	*	1.14e+03	*	*	1.12e+03	*
165	PCB-206	*	8.88e+02	*	*	9.68e+02	*
166	PCB-209	*	9.80e+02	*	*	7.96e+02	*
167	PCB-1L	2.06e+06	2.03e+03	1.0e+03	6.83e+05	7.50e+03	9.1e+01
168	PCB-3L	1.62e+06	2.03e+03	8.0e+02	5.18e+05	7.50e+03	6.9e+01
169	PCB-4L	4.76e+05	1.82e+03	2.6e+02	3.16e+05	1.29e+03	2.5e+02
170	PCB-15L	5.62e+06	1.43e+03	3.9e+03	3.60e+06	1.60e+03	2.3e+03
171	PCB-19L	6.59e+05	1.09e+04	6.1e+01	6.44e+05	2.96e+04	2.2e+01
172	PCB-37L	1.57e+06	1.07e+04	1.5e+02	1.46e+06	2.04e+04	7.2e+01
173	PCB-54L	1.31e+06	3.20e+03	4.1e+02	1.58e+06	2.46e+03	6.4e+02
174	PCB-81L	9.34e+05	3.27e+03	2.9e+02	1.16e+06	2.95e+03	3.9e+02
175	PCB-77L	9.37e+05	3.27e+03	2.9e+02	1.20e+06	2.95e+03	4.0e+02
176	PCB-104L	1.16e+06	4.70e+03	2.5e+02	7.25e+05	2.46e+03	3.0e+02
177	PCB-123L	1.55e+06	4.17e+03	3.7e+02	1.01e+06	3.91e+03	2.6e+02
178	PCB-118L	1.60e+06	4.17e+03	3.8e+02	1.05e+06	3.91e+03	2.7e+02
179	PCB-114L	1.68e+06	4.17e+03	4.0e+02	1.01e+06	3.91e+03	2.6e+02
180	PCB-105L	1.33e+06	4.17e+03	3.2e+02	8.27e+05	3.91e+03	2.1e+02
181	PCB-126L	1.65e+06	4.17e+03	3.9e+02	1.08e+06	3.91e+03	2.8e+02
182	PCB-155L	9.00e+05	3.87e+03	2.3e+02	7.37e+05	7.34e+03	1.0e+02
183	PCB-167L	1.77e+06	1.68e+03	1.0e+03	1.42e+06	1.98e+03	7.1e+02
184	PCB-156/157L	2.62e+06	1.68e+03	1.6e+03	2.13e+06	1.98e+03	1.1e+03
185	PCB-169L	1.45e+06	1.68e+03	8.6e+02	1.16e+06	1.98e+03	5.9e+02
186	PCB-188L	1.05e+06	8.72e+02	1.2e+03	9.89e+05	7.68e+02	1.3e+03
187	PCB-189L	1.34e+06	1.78e+03	7.5e+02	1.28e+06	1.64e+03	7.8e+02
188	PCB-202L	1.28e+06	1.10e+03	1.2e+03	1.37e+06	1.07e+03	1.3e+03
189	PCB-205L	8.35e+05	1.10e+03	7.6e+02	9.21e+05	1.07e+03	8.6e+02
190	PCB-208L	8.14e+05	1.09e+03	7.5e+02	1.03e+06	9.92e+02	1.0e+03
191	PCB-206L	7.33e+05	8.84e+02	8.3e+02	9.36e+05	8.84e+02	1.1e+03
192	PCB-209L	8.54e+05	7.64e+02	1.1e+03	7.11e+05	7.28e+02	9.8e+02
193	PCB-28L	2.53e+06	1.07e+04	2.4e+02	2.39e+06	2.04e+04	1.2e+02
194	PCB-111L	1.09e+06	3.80e+03	2.9e+02	7.07e+05	2.37e+03	3.0e+02
195	PCB-178L	6.66e+05	8.72e+02	7.6e+02	6.63e+05	7.68e+02	8.6e+02
196	PCB-9L	5.68e+06	1.43e+03	4.0e+03	3.58e+06	1.60e+03	2.2e+03
197	PCB-52L	1.40e+06	3.98e+03	3.5e+02	1.72e+06	2.82e+03	6.1e+02
198	PCB-101L	1.24e+06	3.80e+03	3.2e+02	7.60e+05	2.37e+03	3.2e+02
199	PCB-138L	1.27e+06	1.94e+03	6.6e+02	1.01e+06	2.05e+03	4.9e+02
200	PCB-194L	9.73e+05	1.10e+03	8.8e+02	1.01e+06	1.07e+03	9.4e+02

File:U142068 #1-341 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

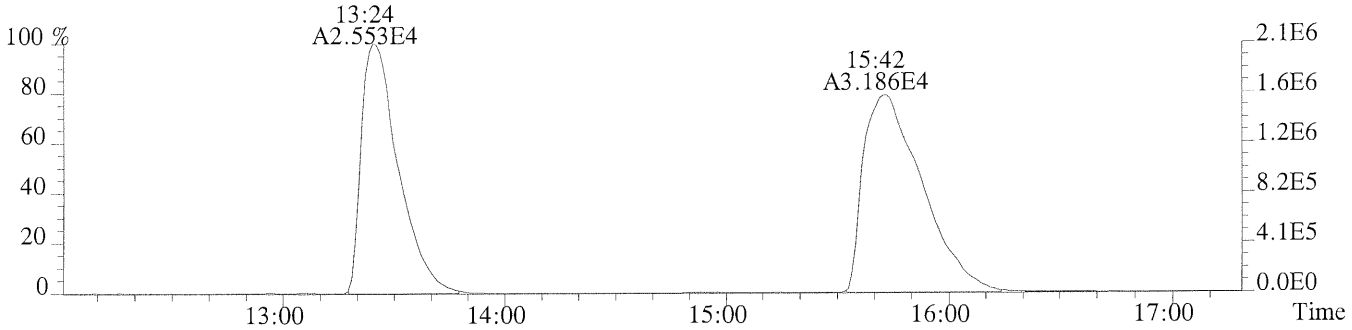
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1556.0,1.00%,F,T)



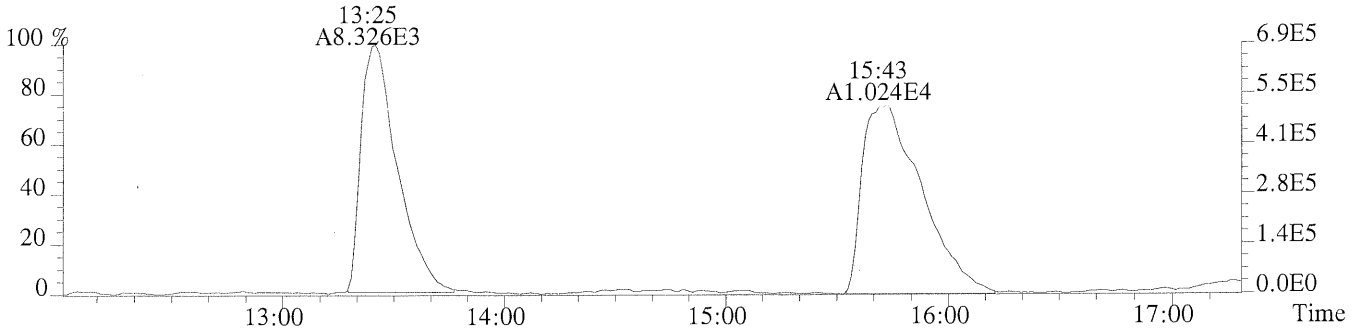
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3132.0,1.00%,F,T)



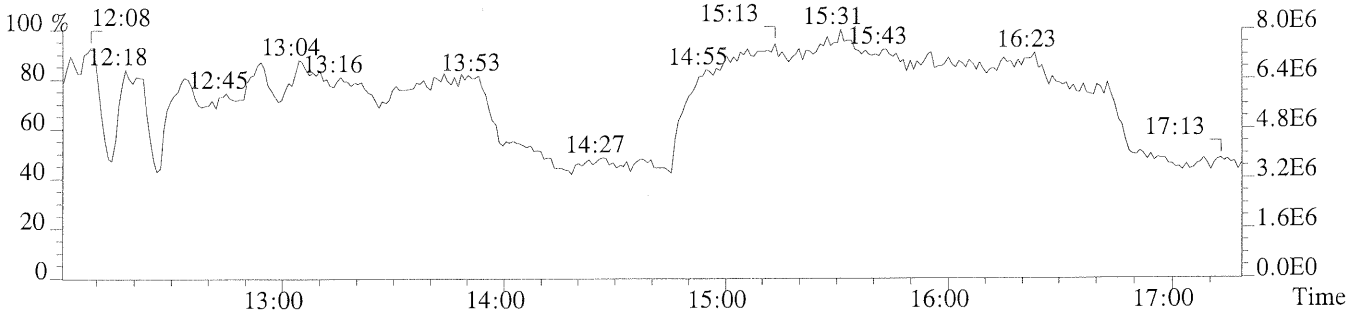
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2032.0,1.00%,F,T)



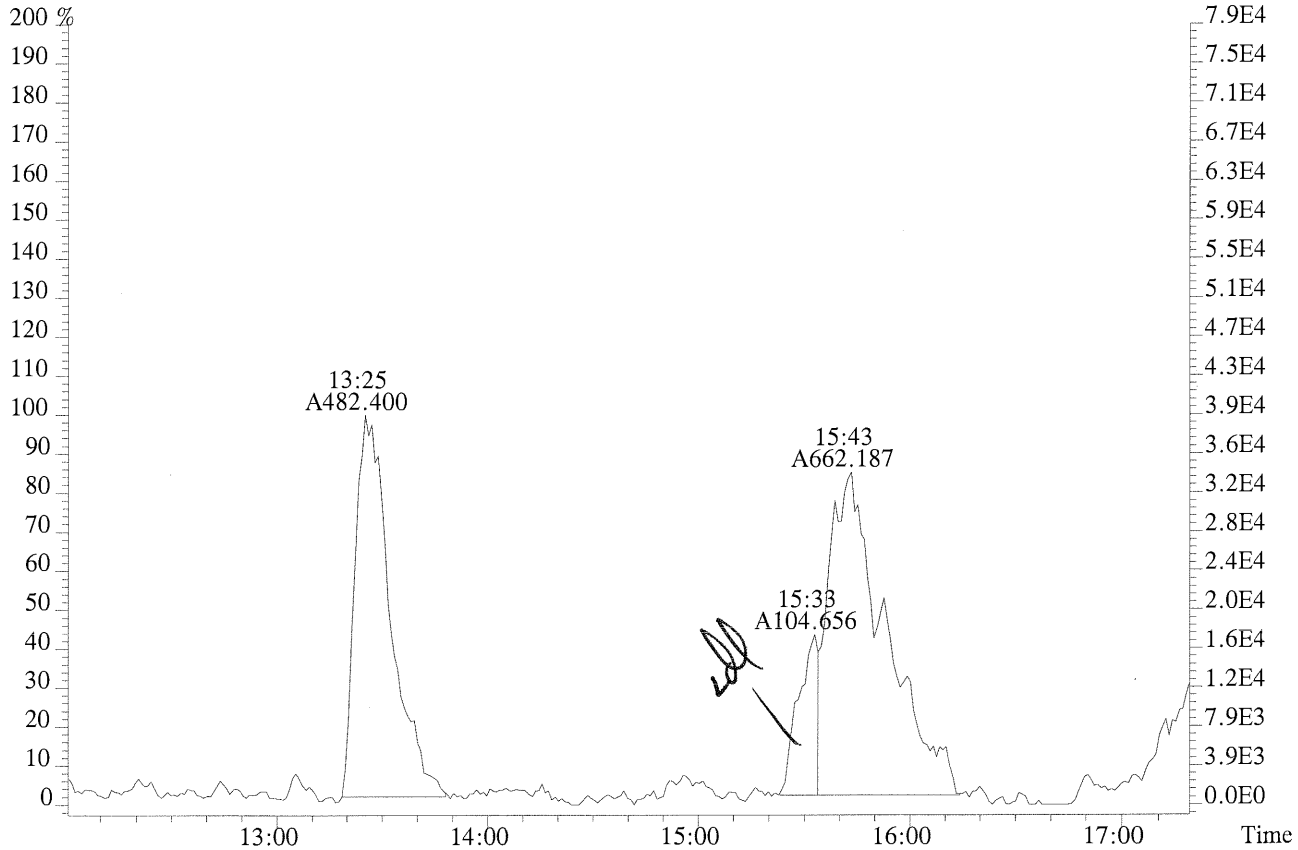
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7496.0,1.00%,F,T)



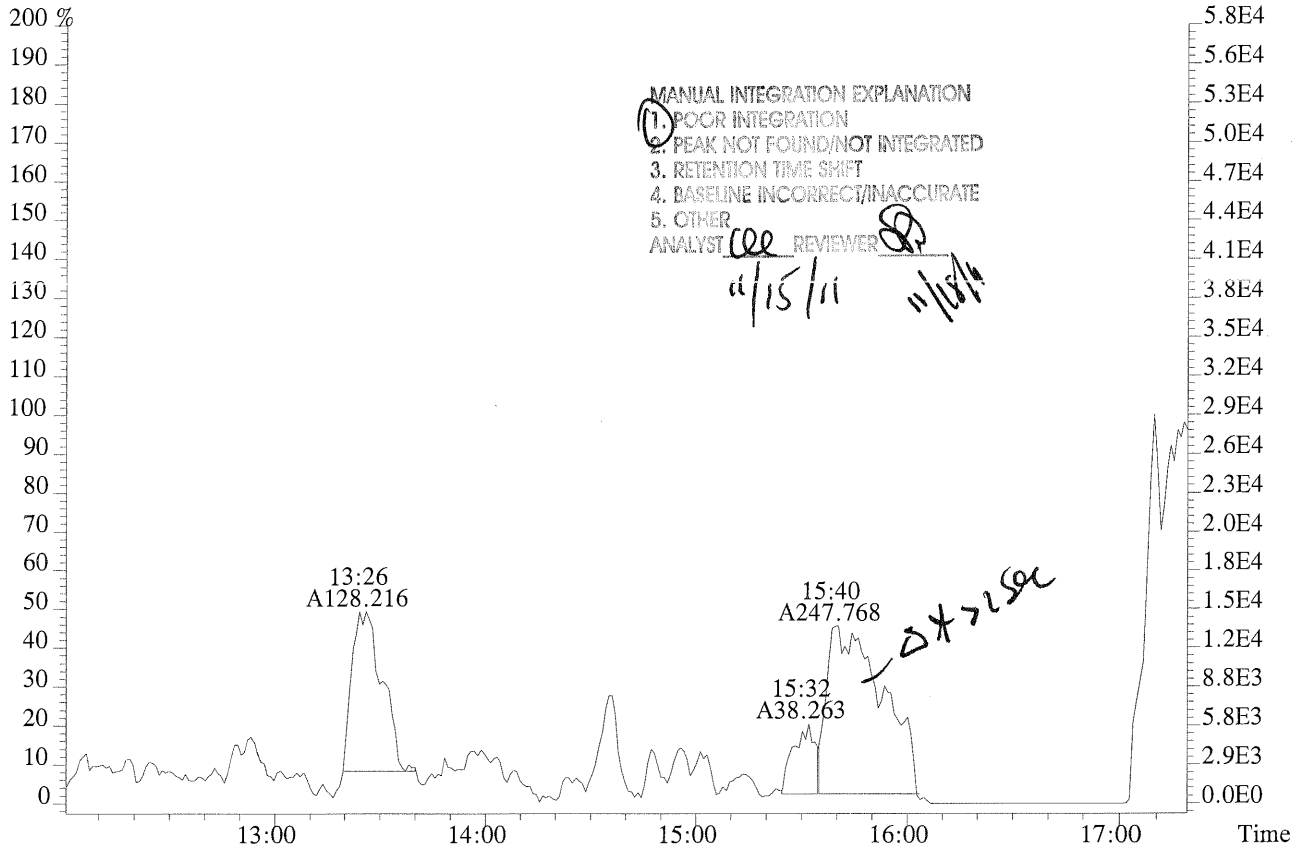
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



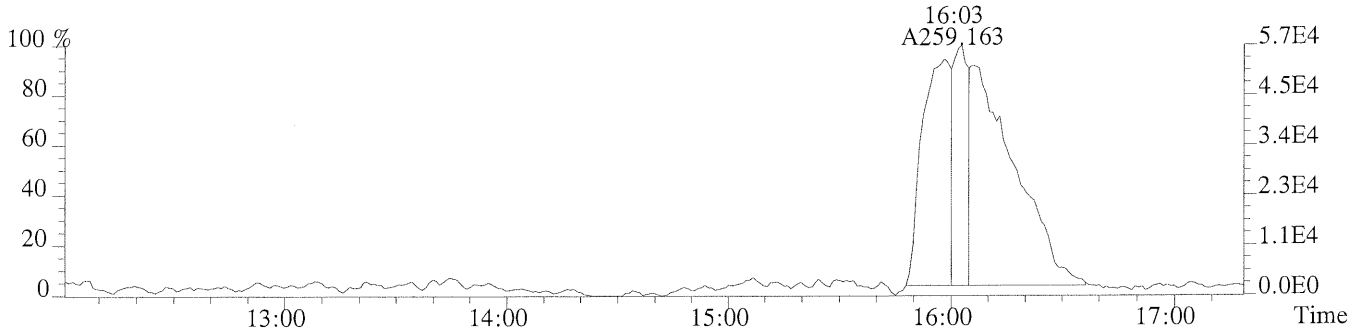
File:U142068 #1-341 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1556.0,1.00%,F,T)



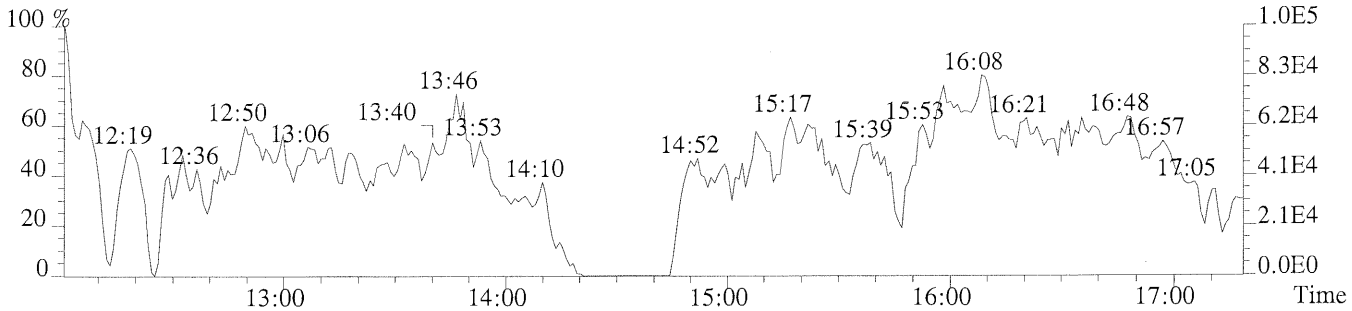
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3132.0,1.00%,F,T)



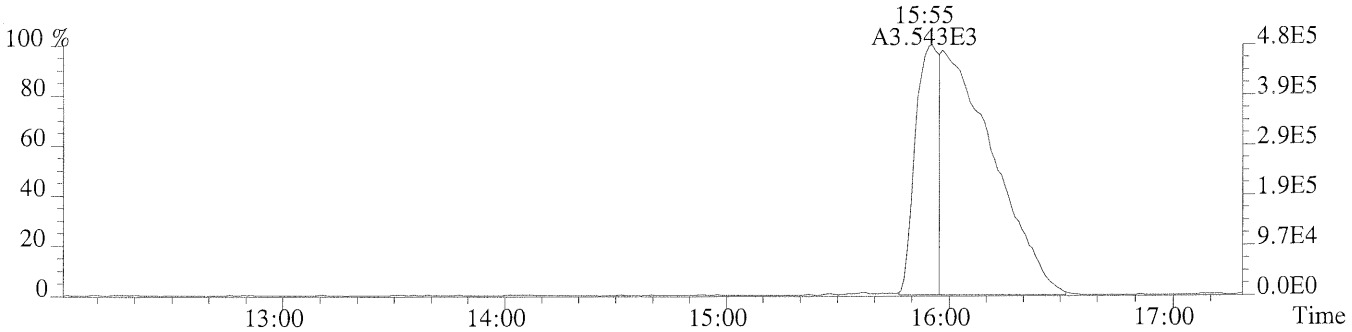
File:U142068 #1-341 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2600.0,1.00%,F,T)



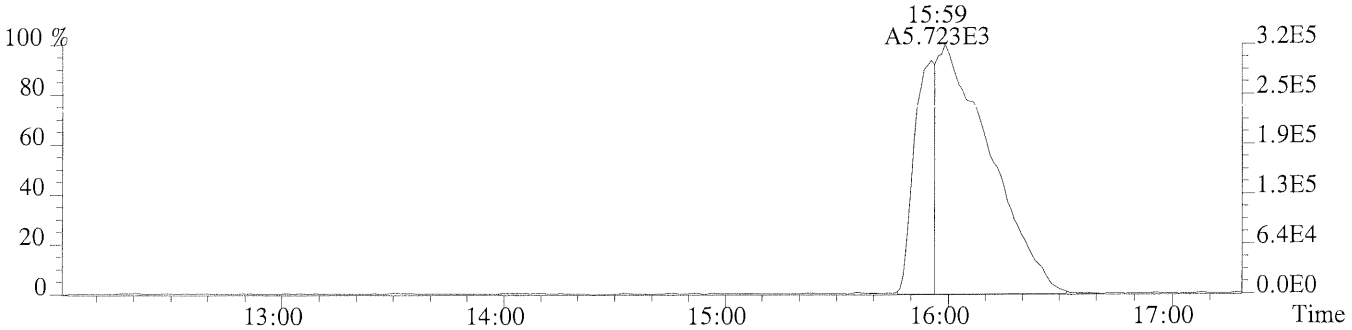
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,58768.0,1.00%,F,T)



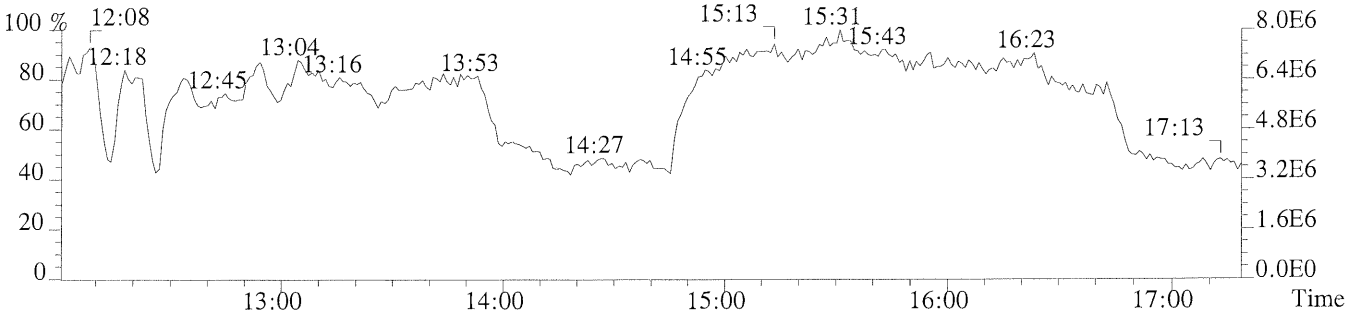
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1816.0,1.00%,F,T)



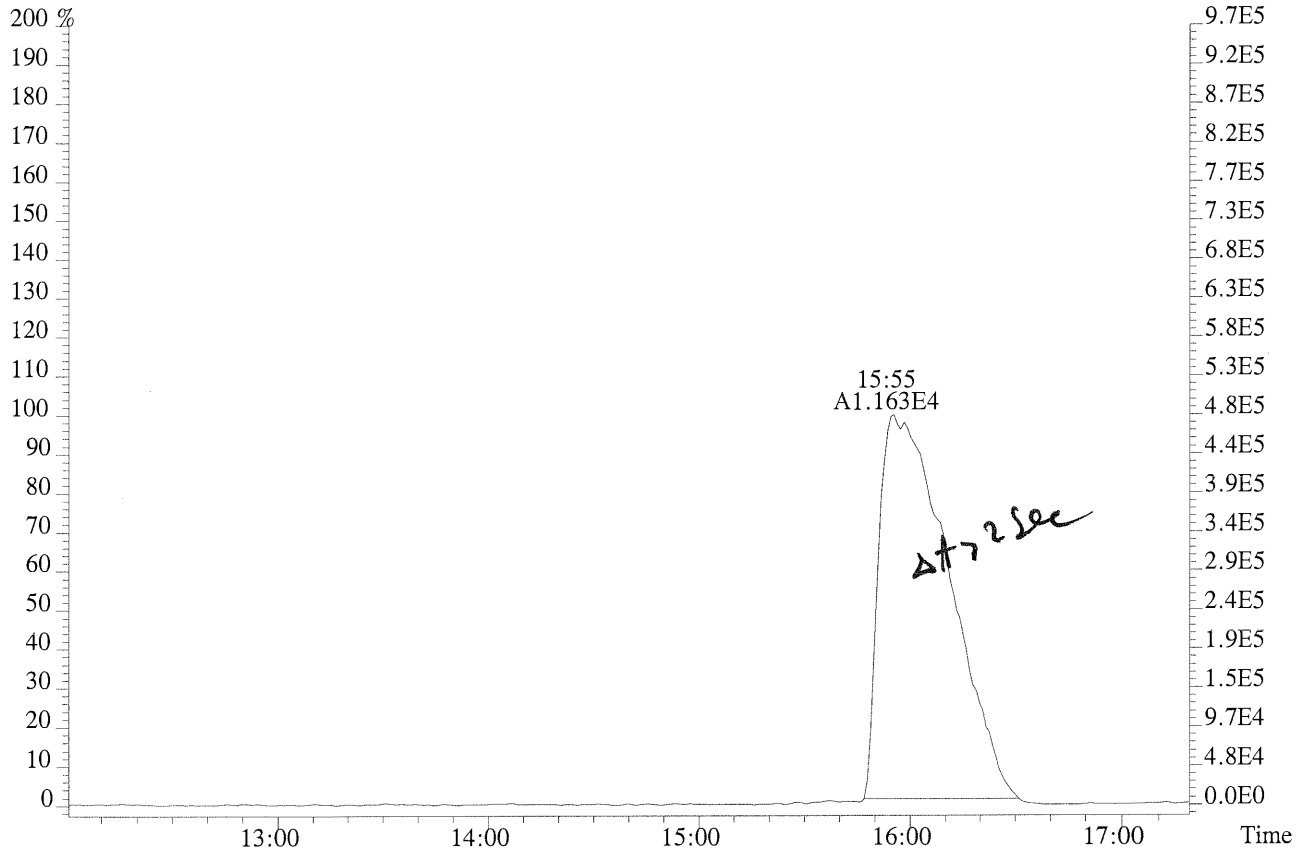
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1288.0,1.00%,F,T)



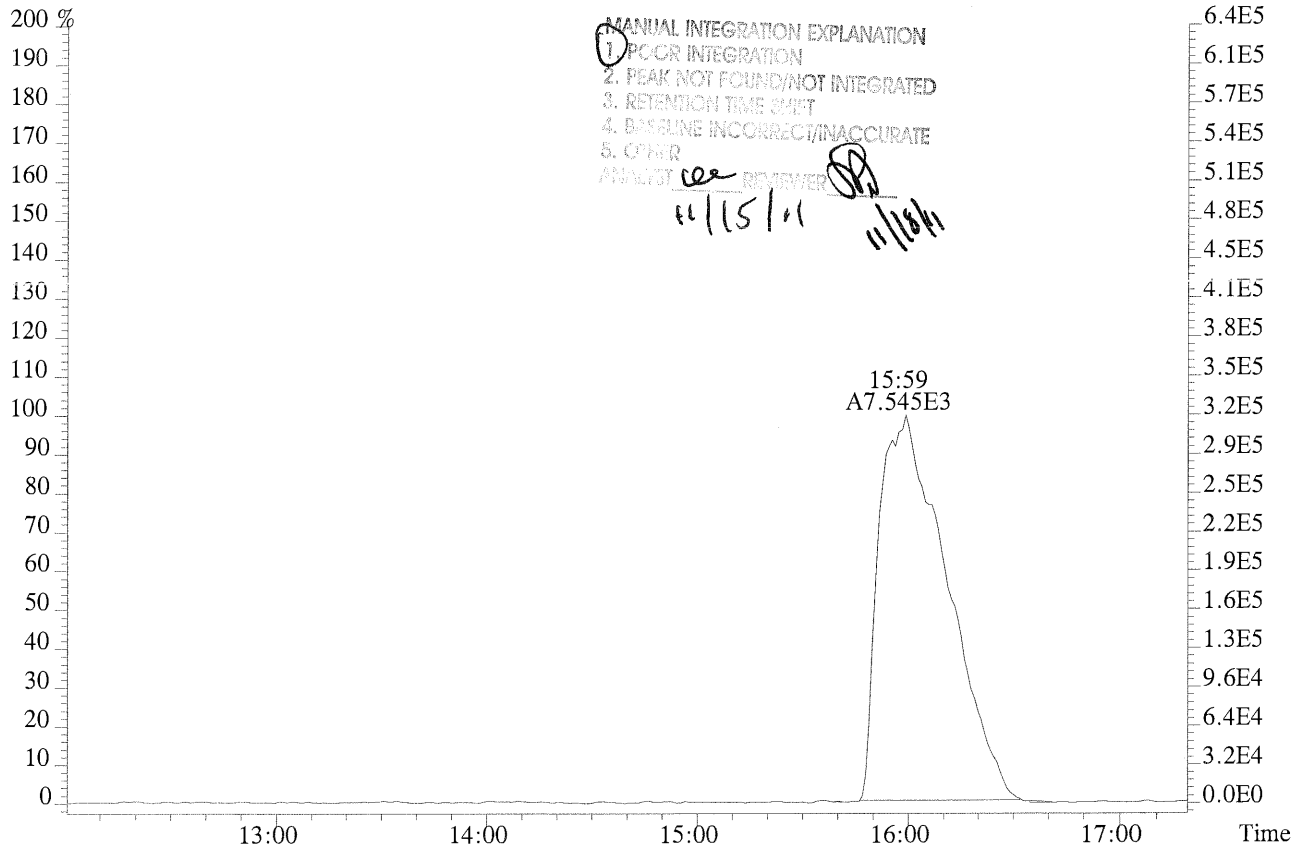
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



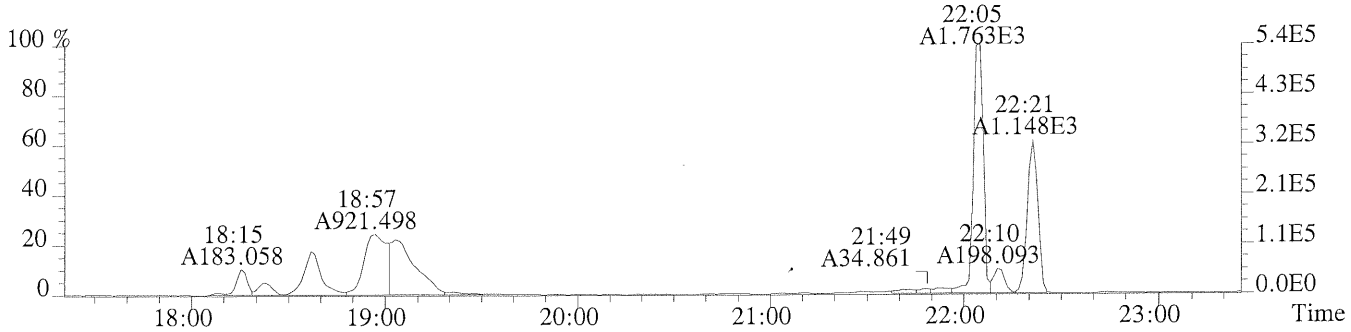
File:U142068 #1-341 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1816.0,1.00%,F,T)



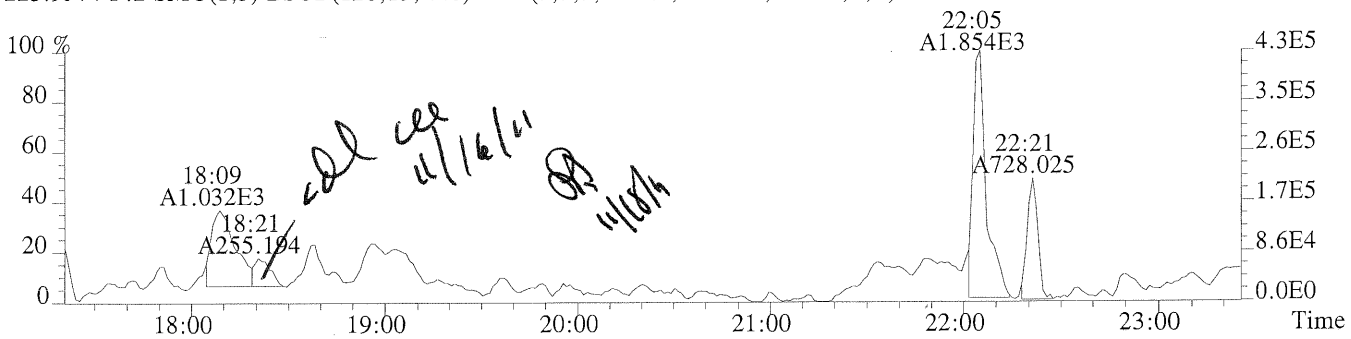
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1288.0,1.00%,F,T)



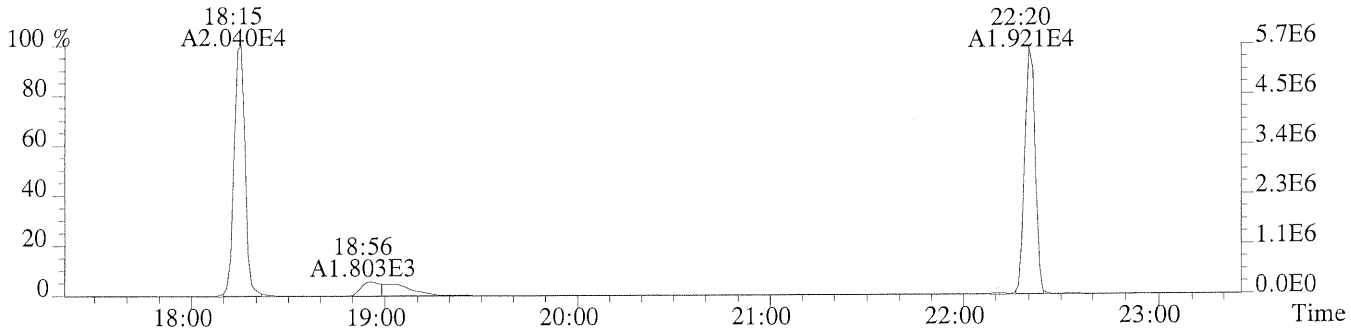
File:U142068 #1-336 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1468.0,1.00%,F,T)



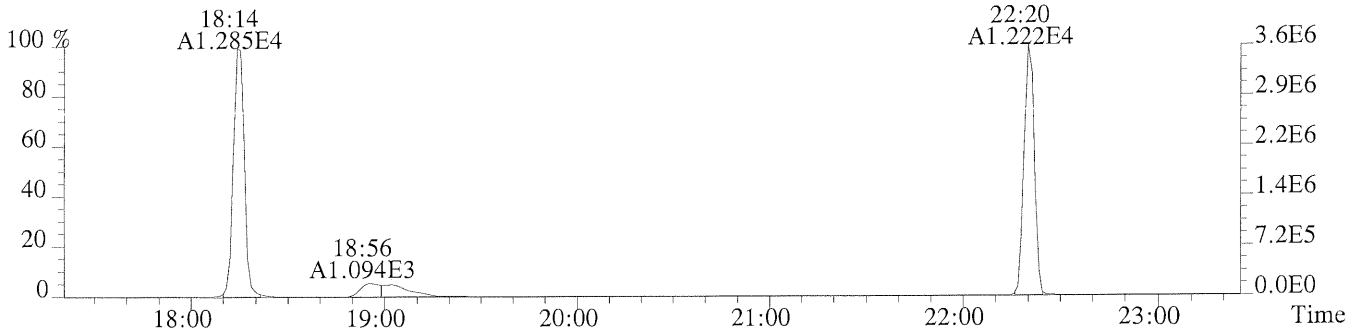
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,39816.0,1.00%,F,T)



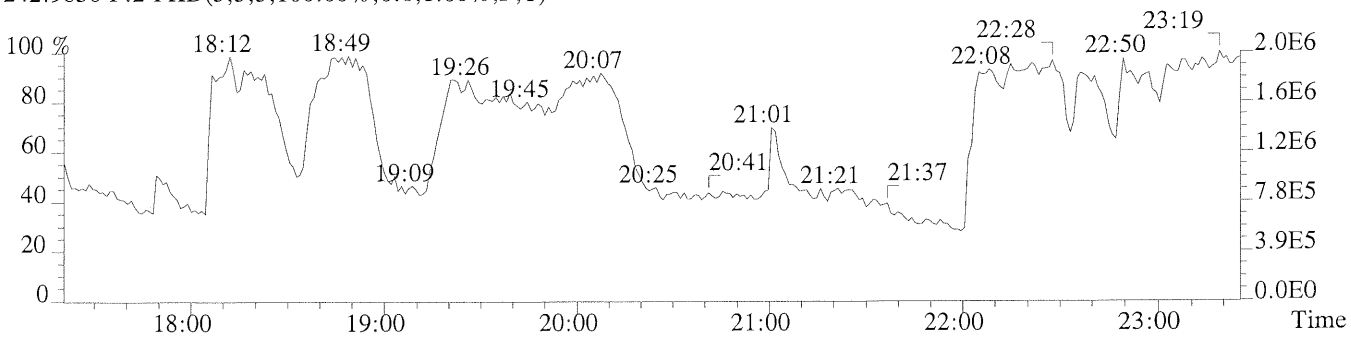
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1432.0,1.00%,F,T)



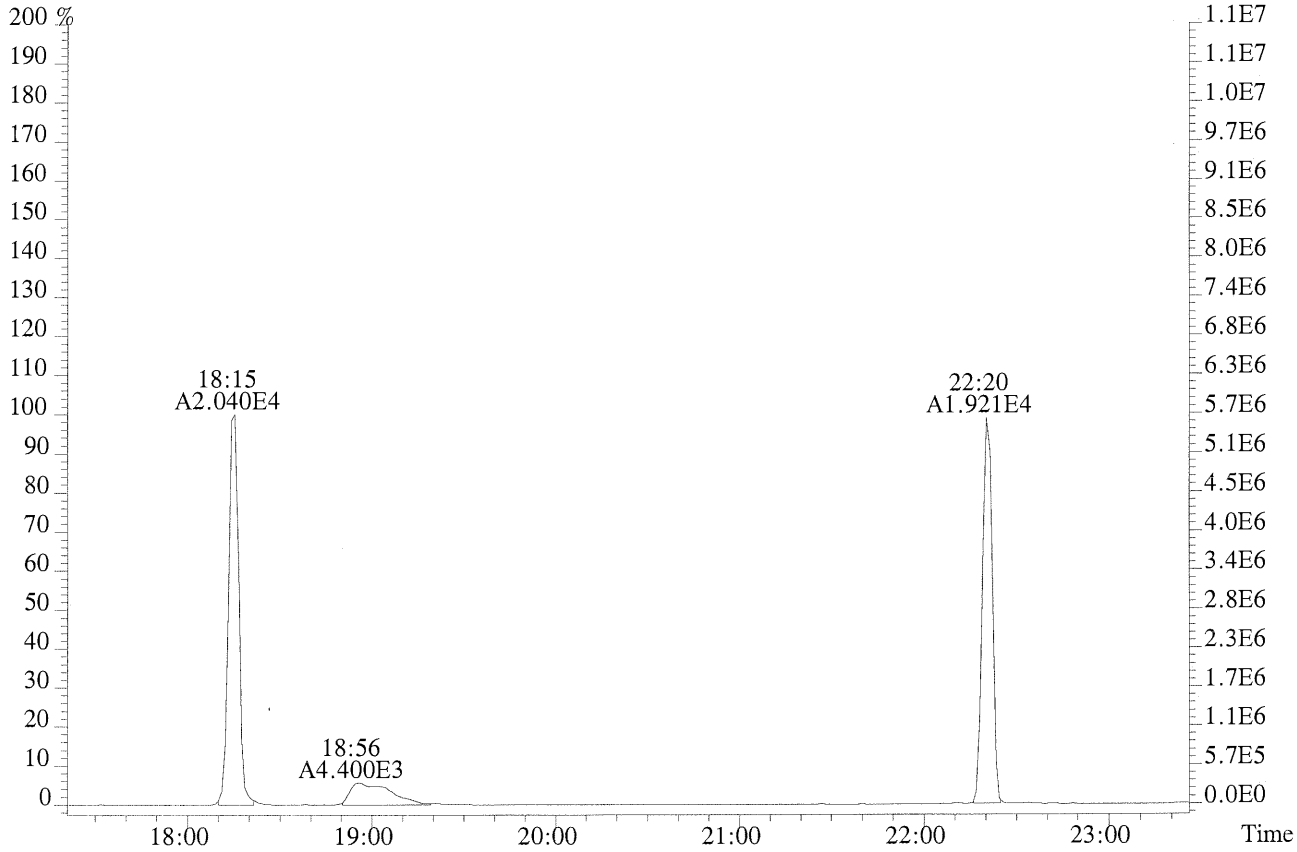
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1596.0,1.00%,F,T)



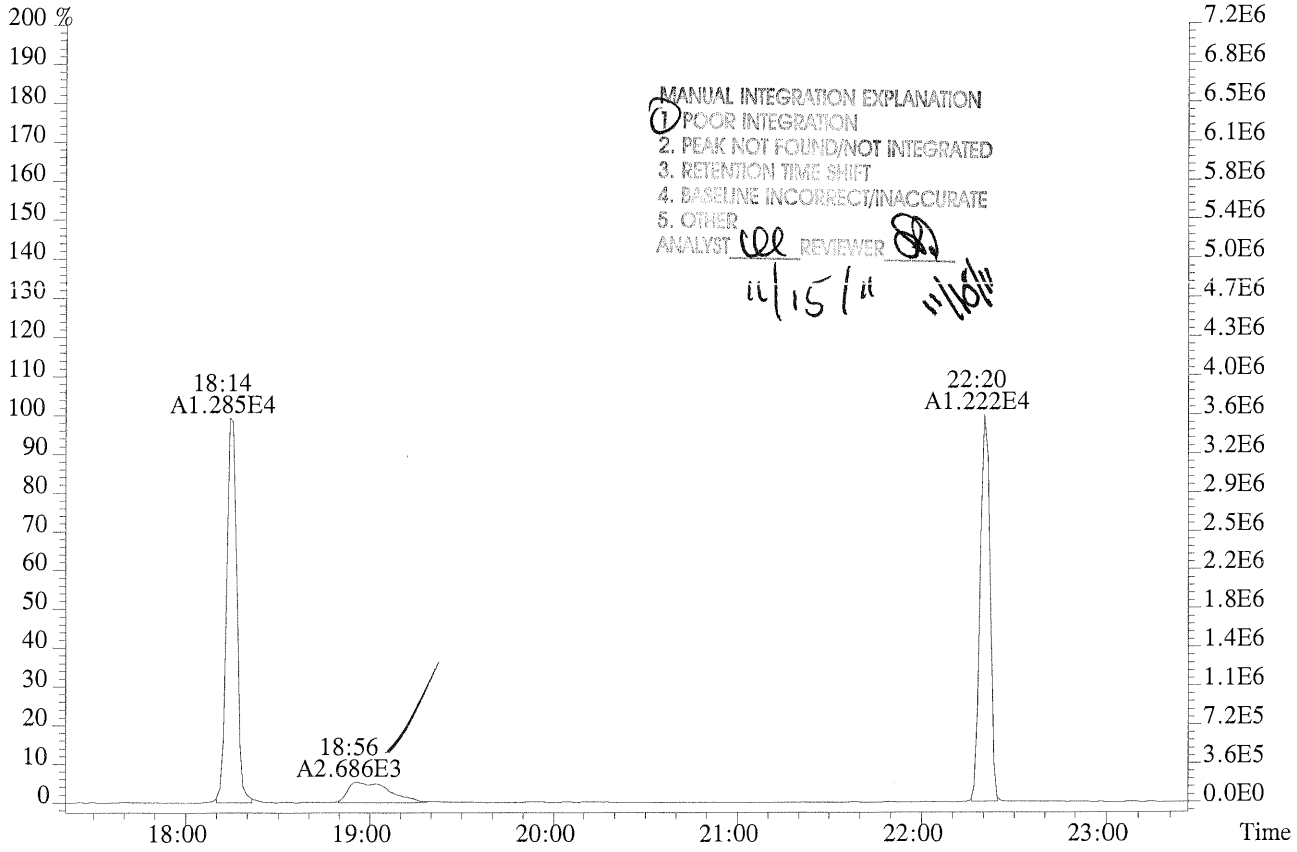
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142068 #1-336 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1432.0,1.00%,F,T)

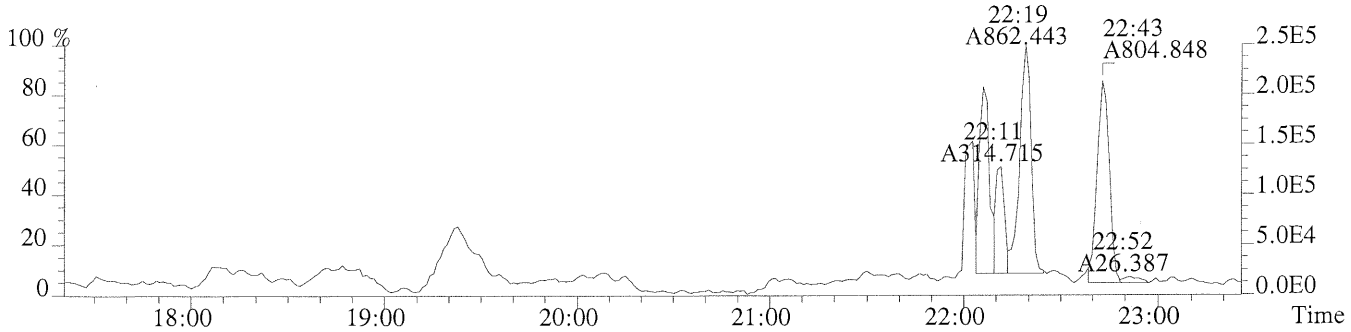


236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1596.0,1.00%,F,T)

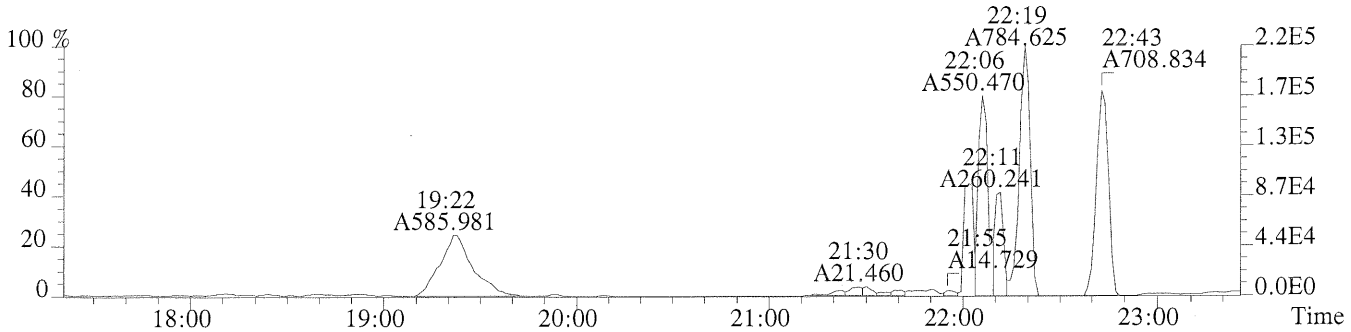


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CC REVIEWER SD
11/15/11 11/16/11

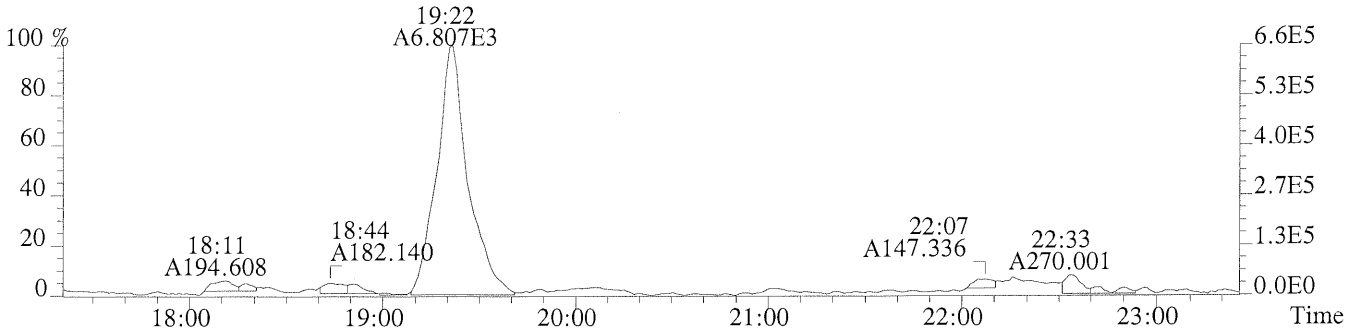
File:U142068 #1-336 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17596.0,1.00%,F,T)



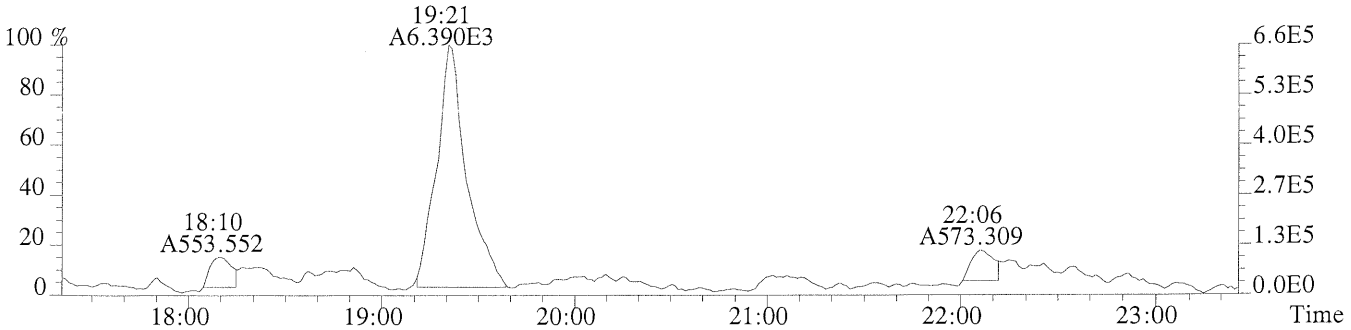
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1312.0,1.00%,F,T)



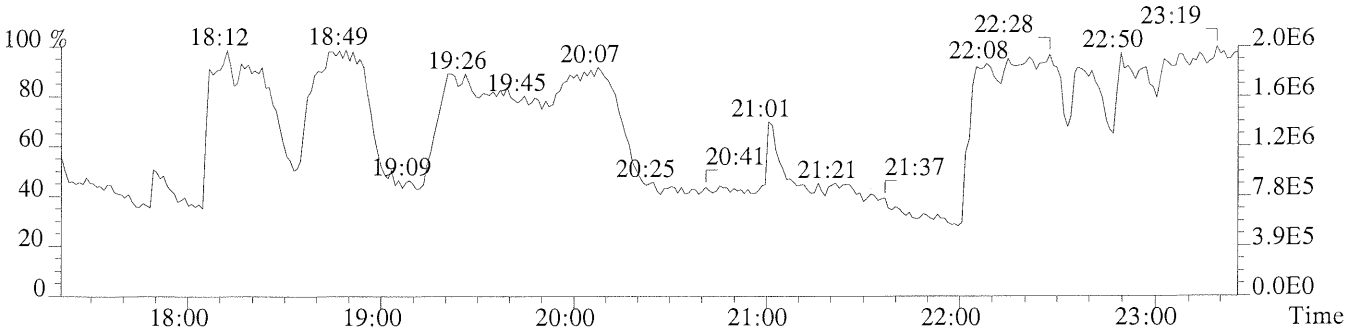
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10856.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,29564.0,1.00%,F,T)

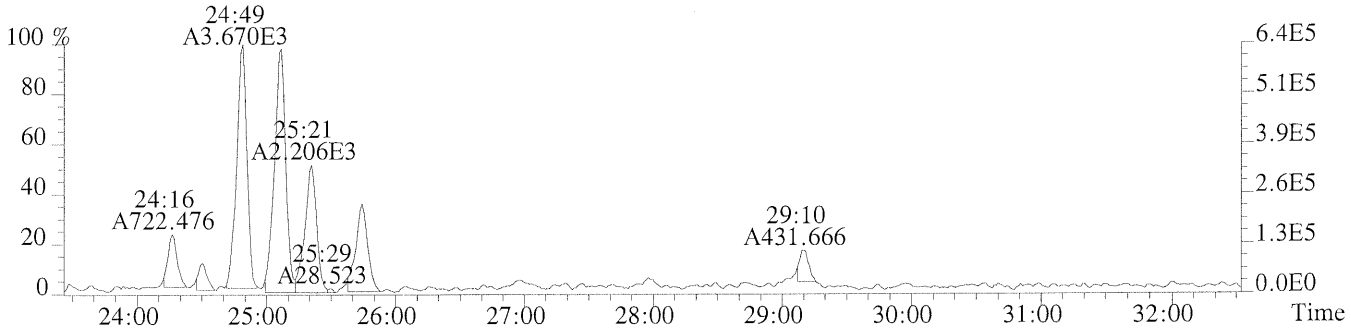


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

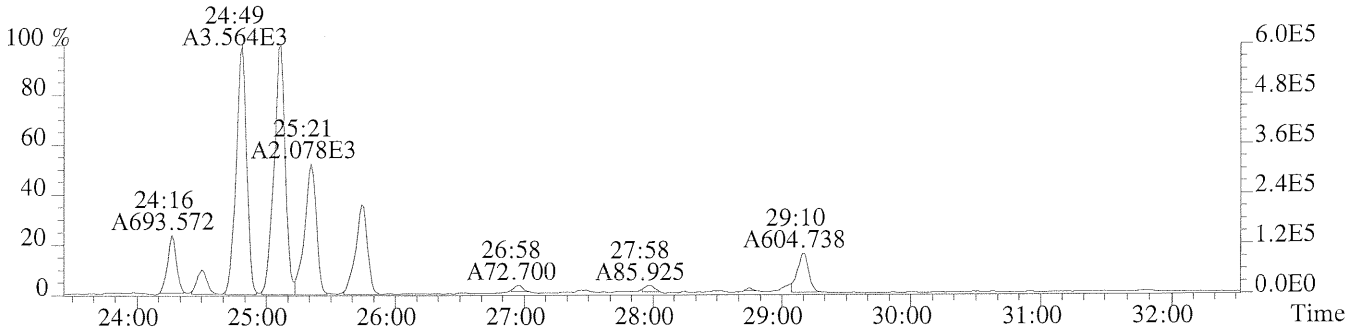


File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

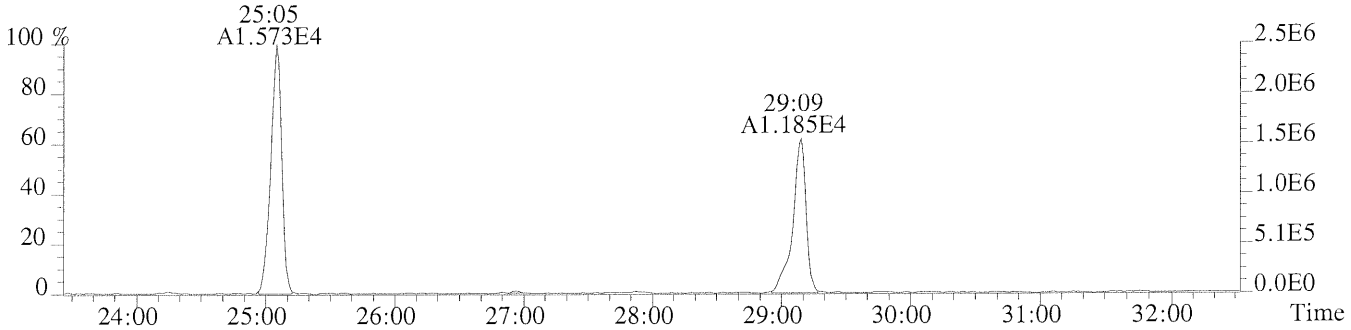
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23284.0,1.00%,F,T)



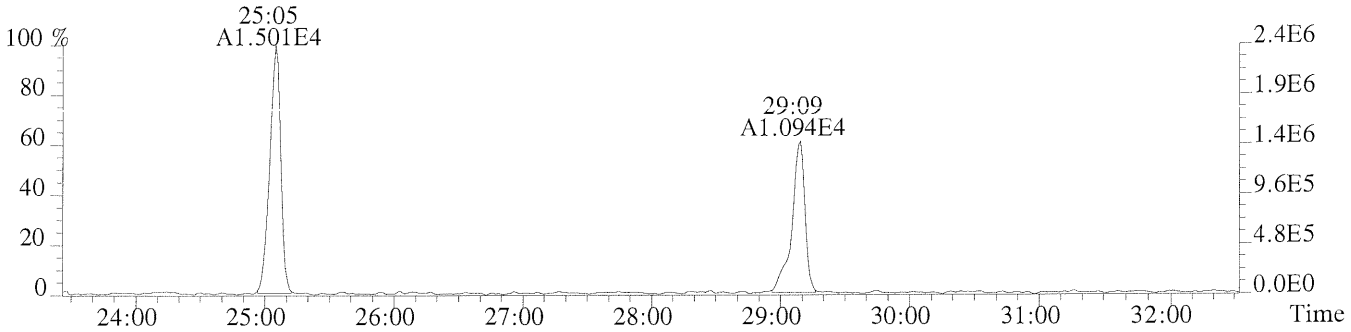
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5880.0,1.00%,F,T)



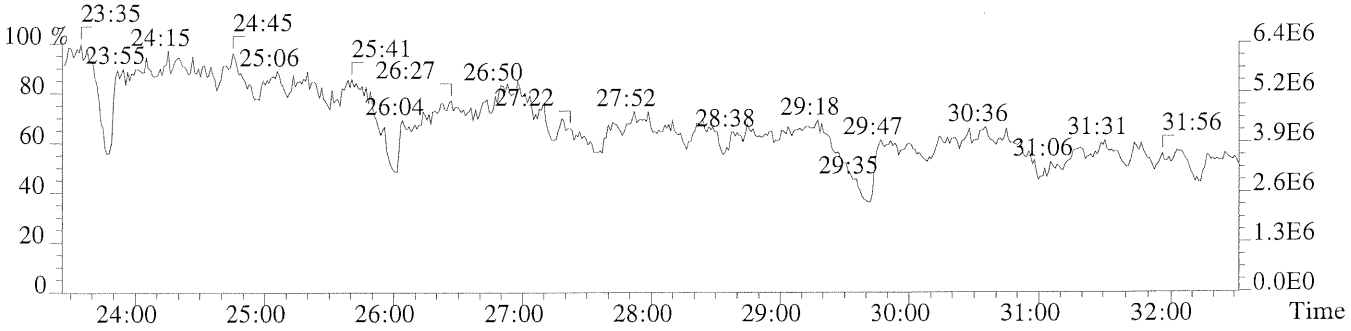
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10672.0,1.00%,F,T)



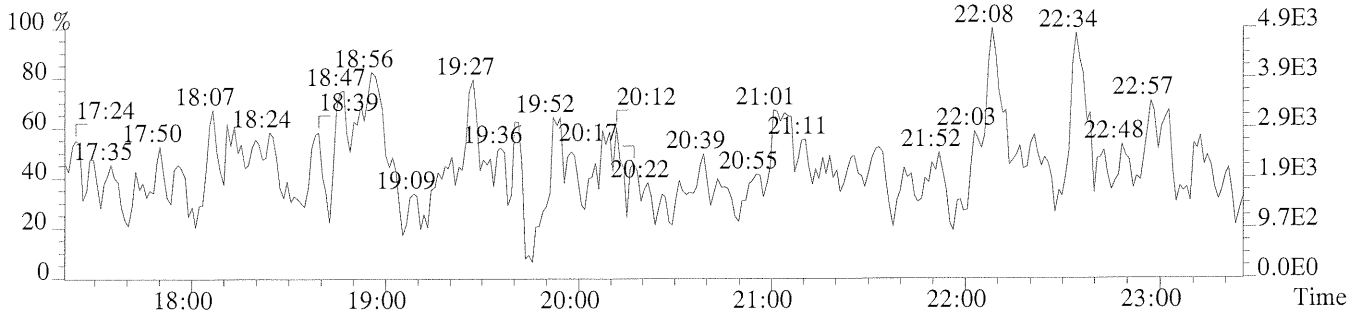
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,20364.0,1.00%,F,T)



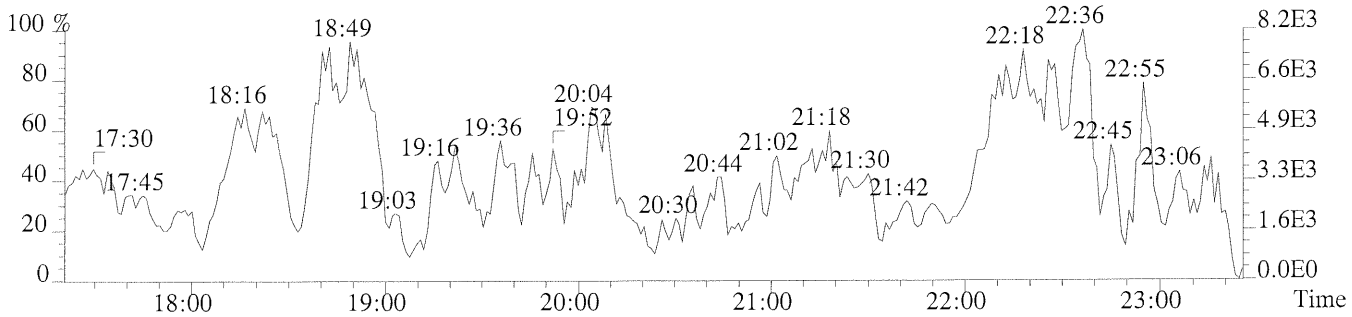
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



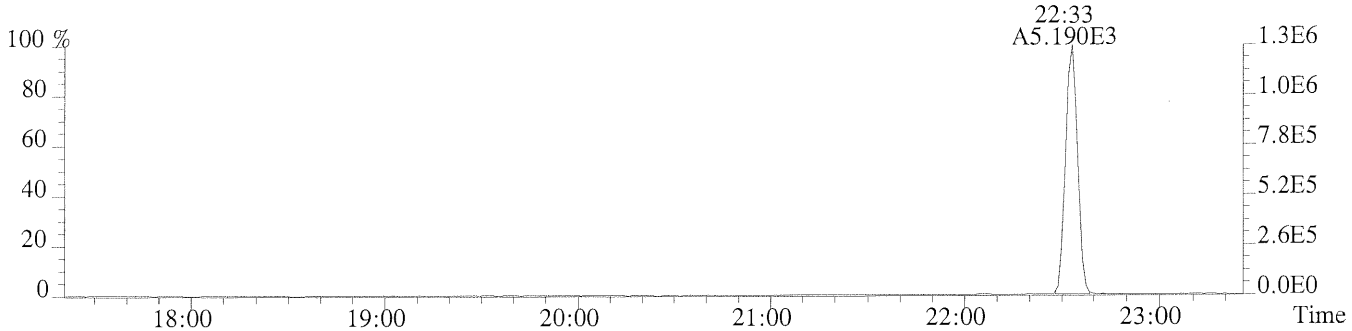
File:U142068 #1-336 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2752.0,1.00%,F,T)



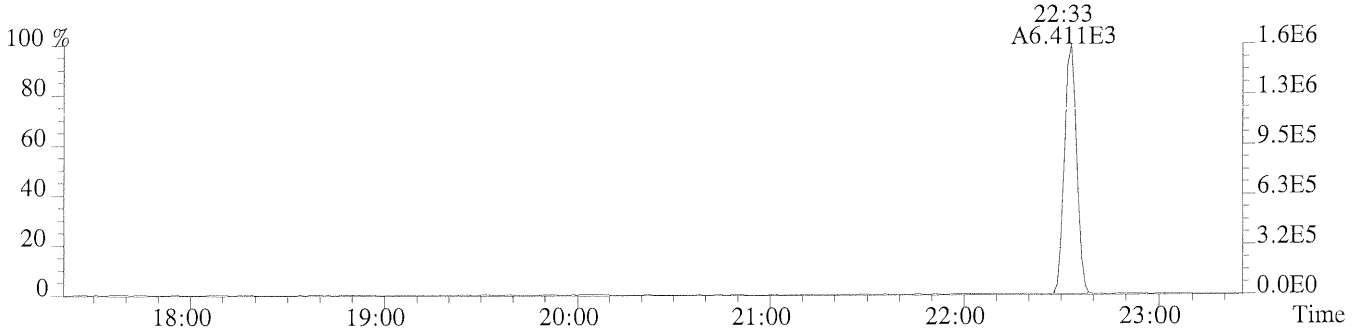
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3548.0,1.00%,F,T)



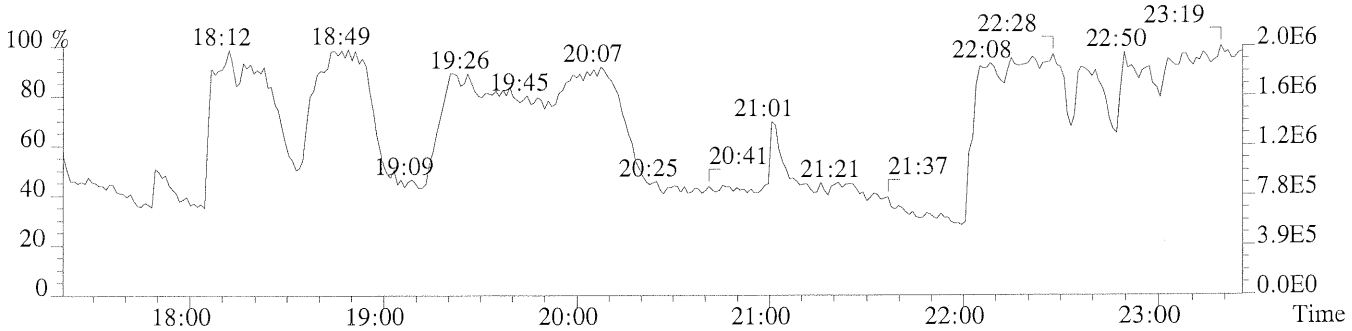
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3200.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2464.0,1.00%,F,T)

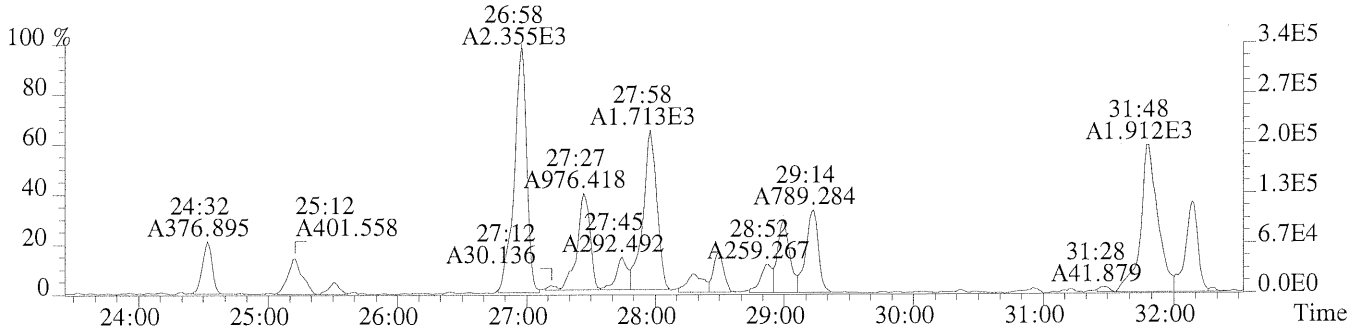


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

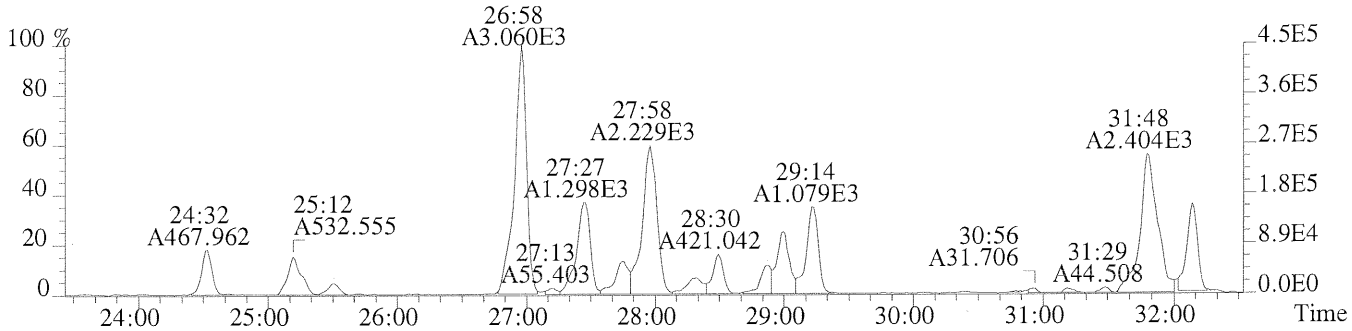


File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

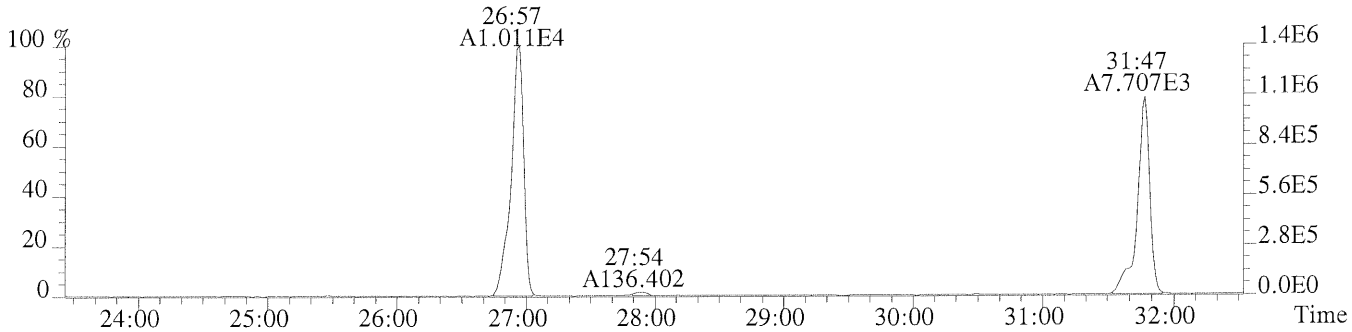
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2084.0,1.00%,F,T)



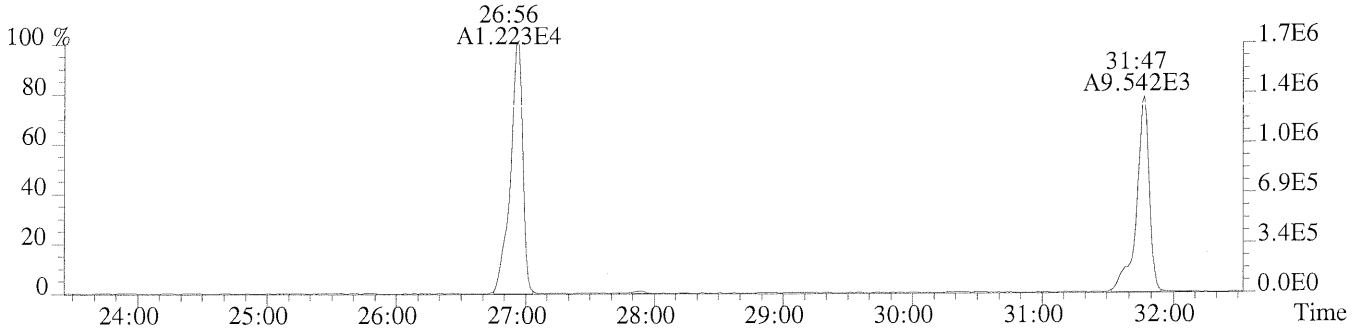
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1864.0,1.00%,F,T)



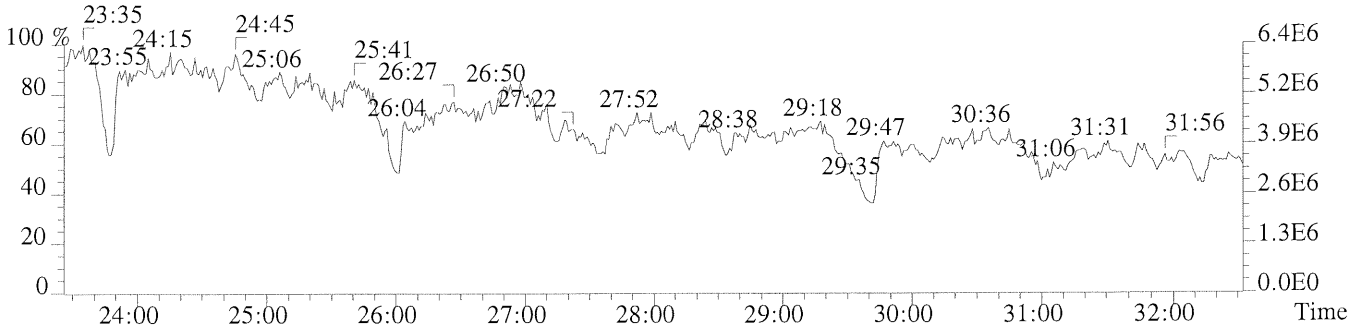
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3980.0,1.00%,F,T)



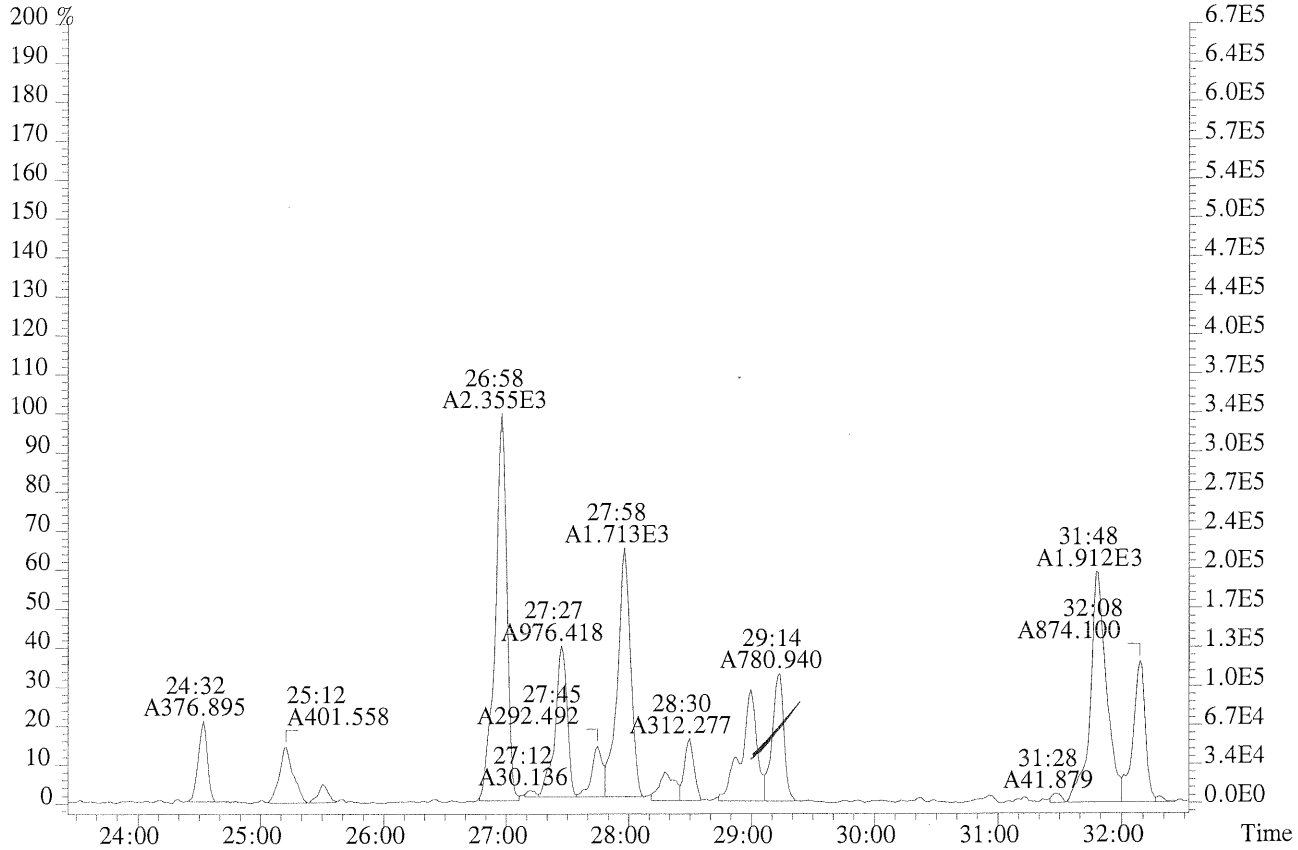
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2816.0,1.00%,F,T)



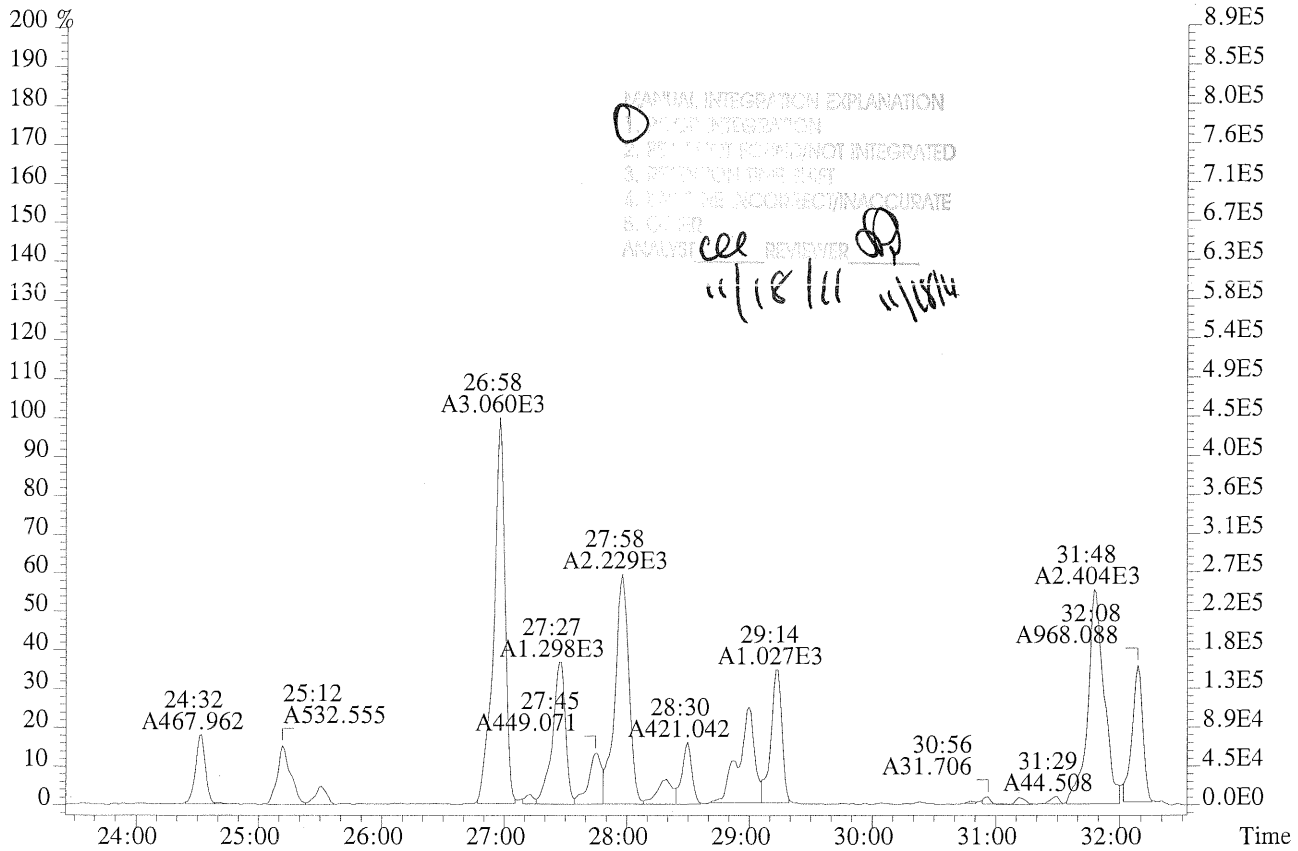
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2084.0,1.00%,F,T)



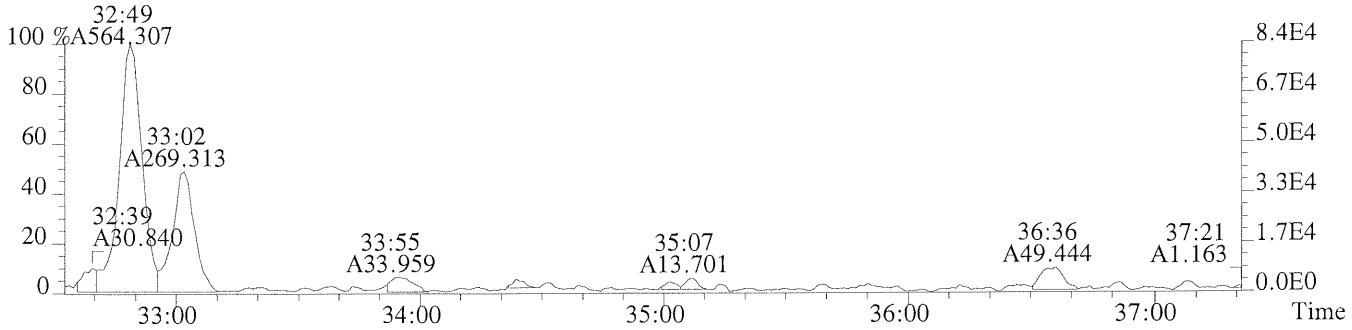
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1864.0,1.00%,F,T)



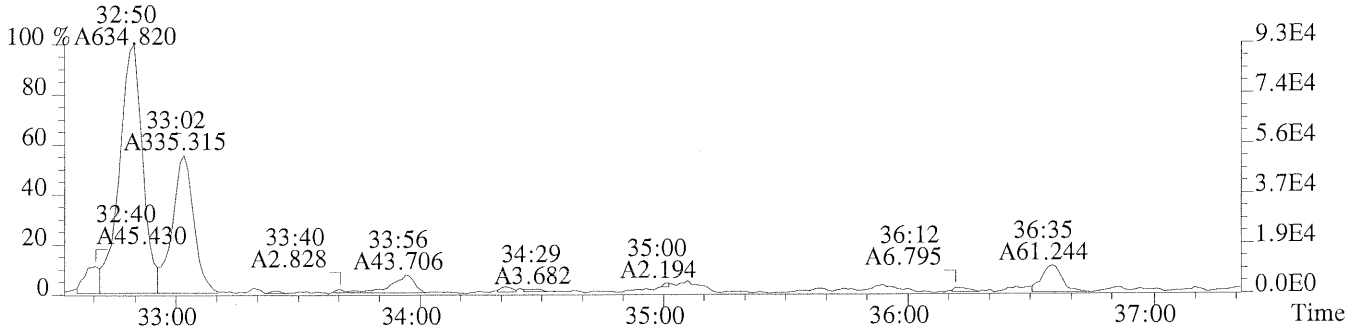
MANUAL INTEGRATION EXPLANATION
1. REASON FOR INTEGRATION
2. PEAK EXIST BUT NOT INTEGRATED
3. RETENTION TIME SHIFT
4. PEAK IS INCORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER
11/18/11 11/18/11

File:U142068 #1-308 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

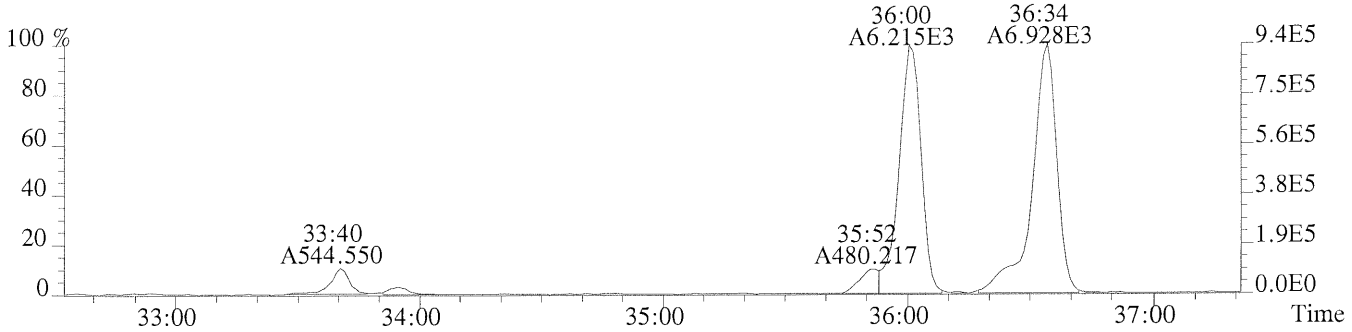
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1524.0,1.00%,F,T)



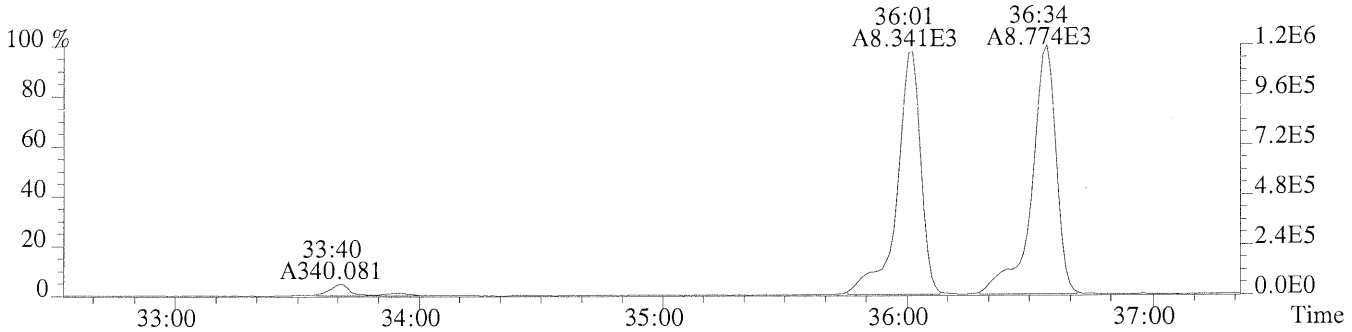
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1320.0,1.00%,F,T)



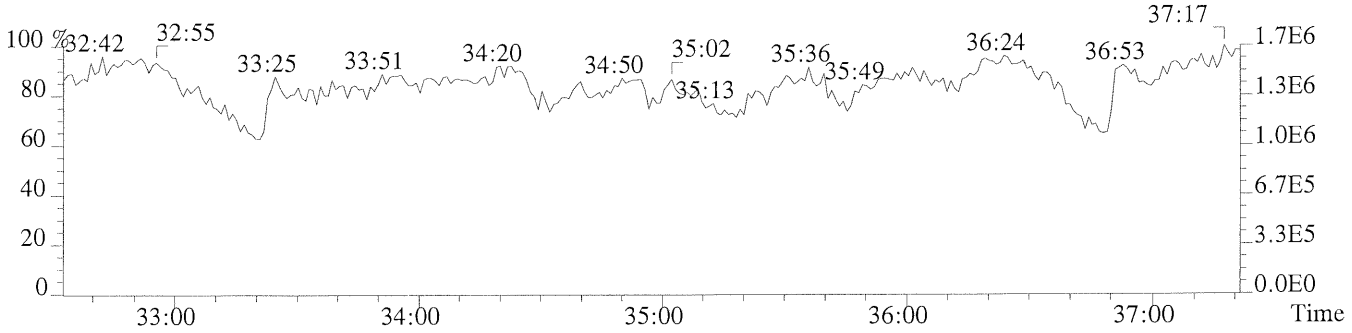
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3272.0,1.00%,F,T)



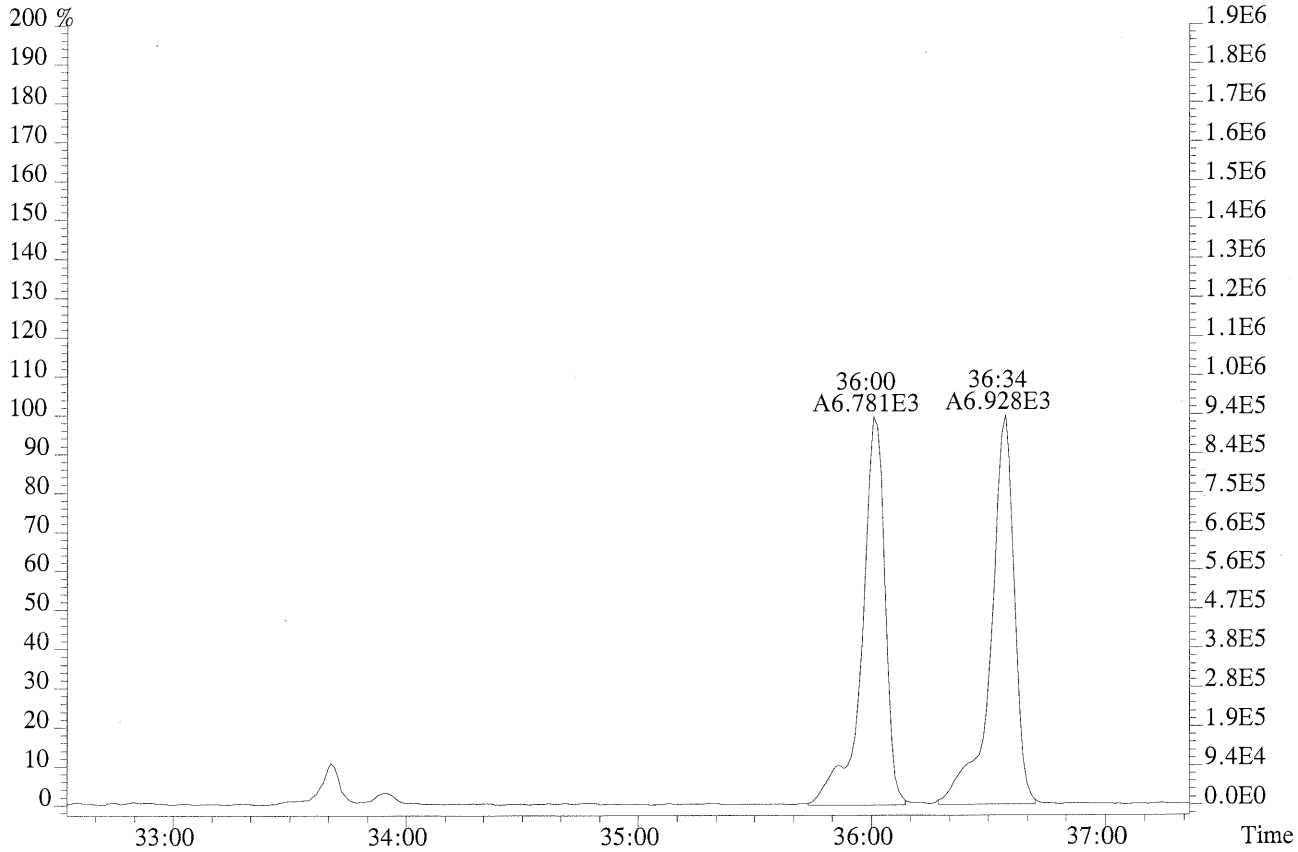
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2952.0,1.00%,F,T)



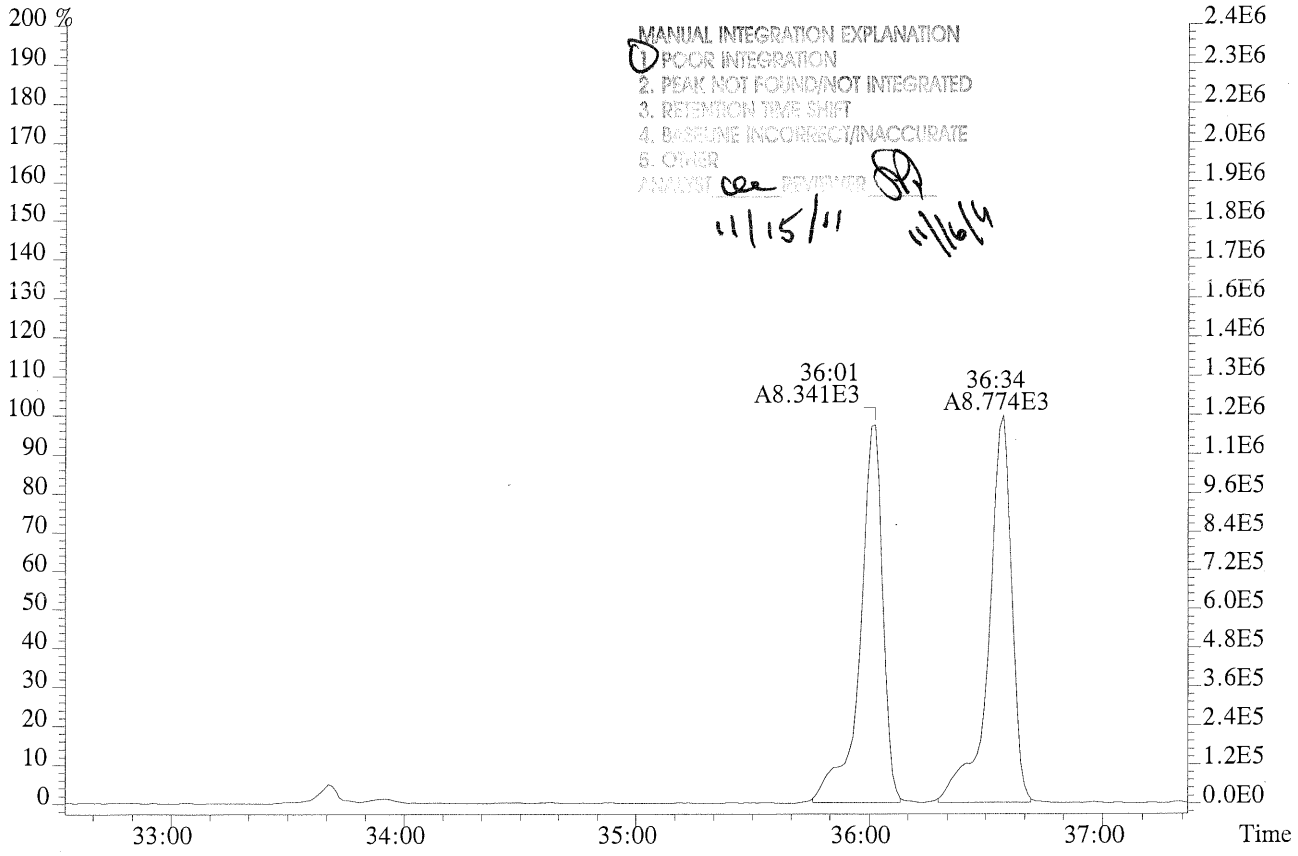
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142068 #1-308 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3272.0,1.00%,F,T)

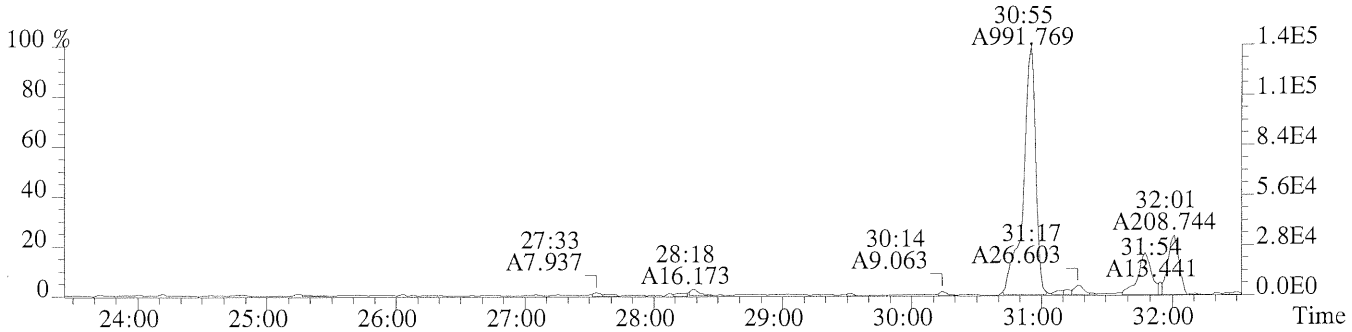


303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2952.0,1.00%,F,T)

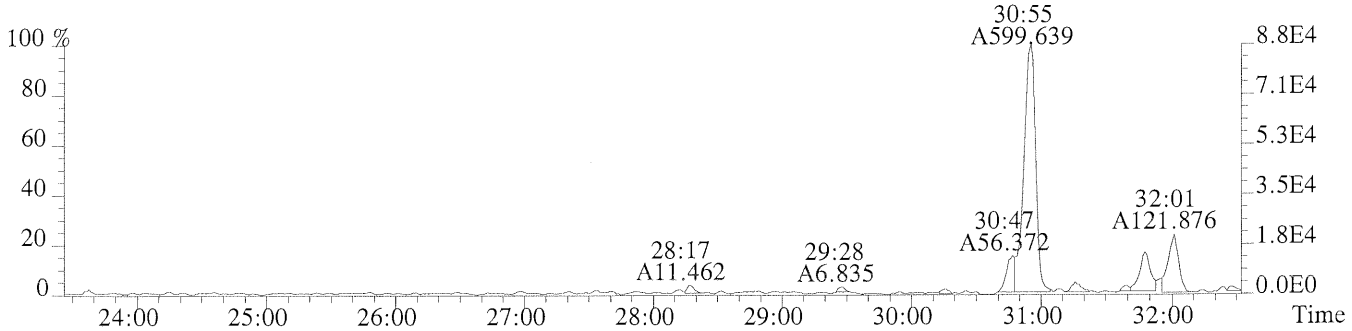


File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

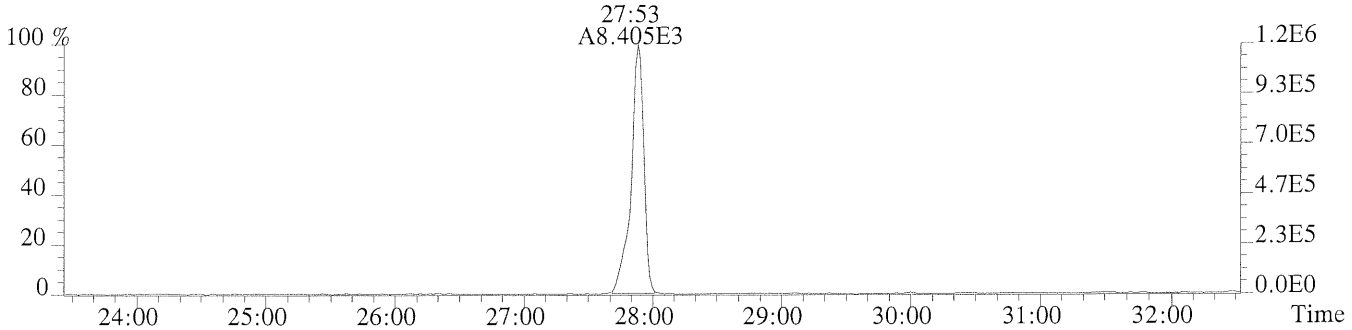
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)



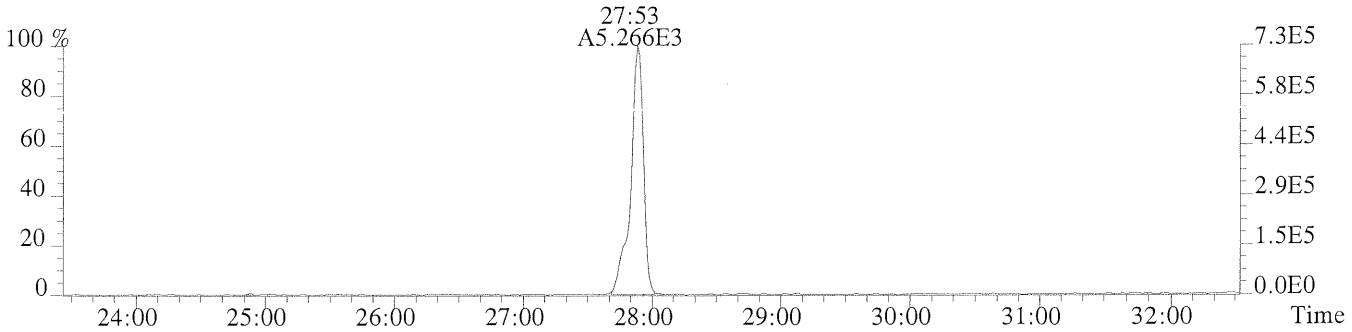
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



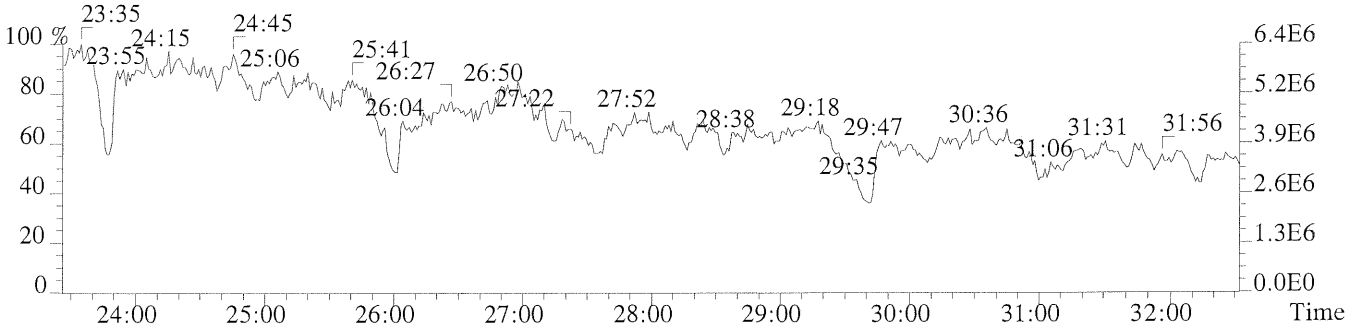
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4696.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2456.0,1.00%,F,T)

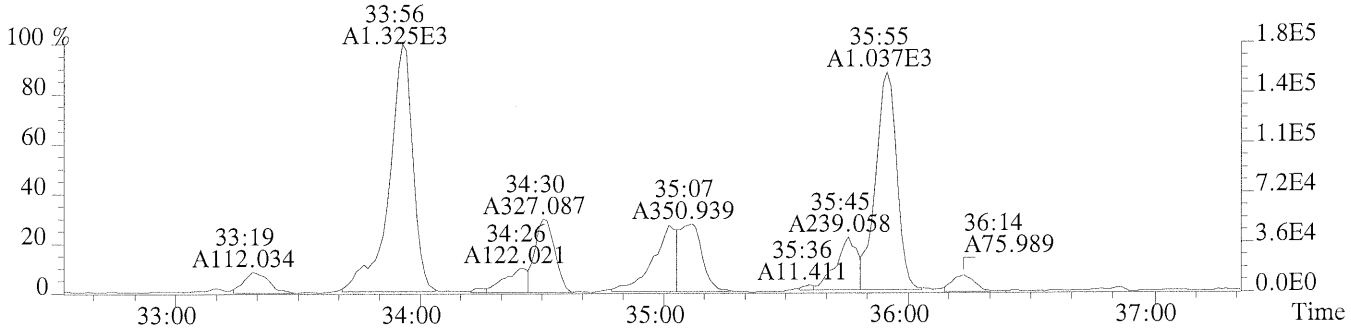


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

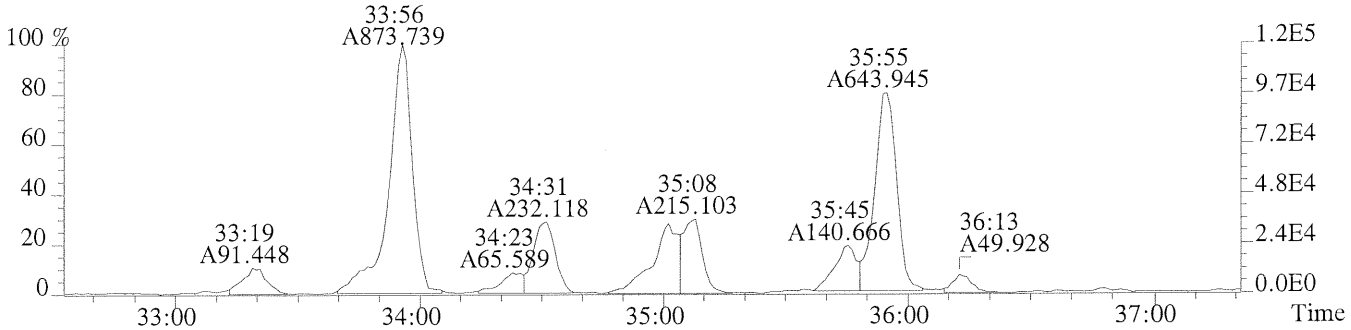


File:U142068 #1-308 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

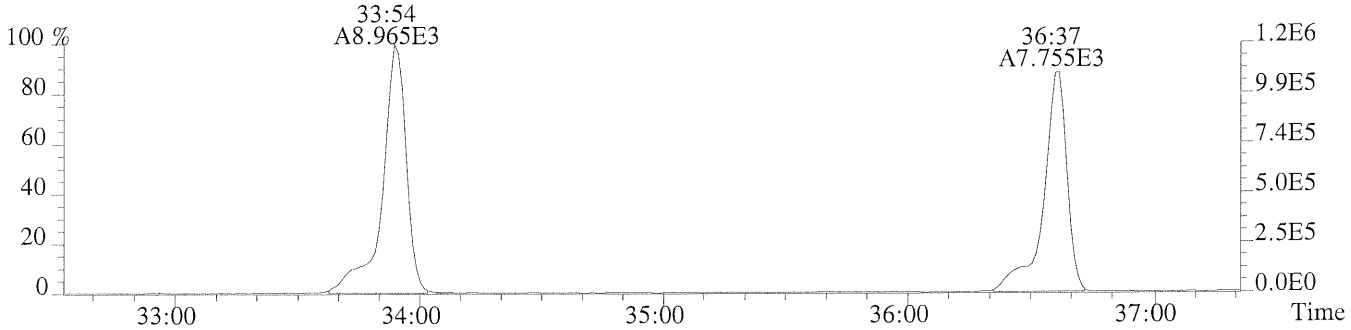
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1544.0,1.00%,F,T)



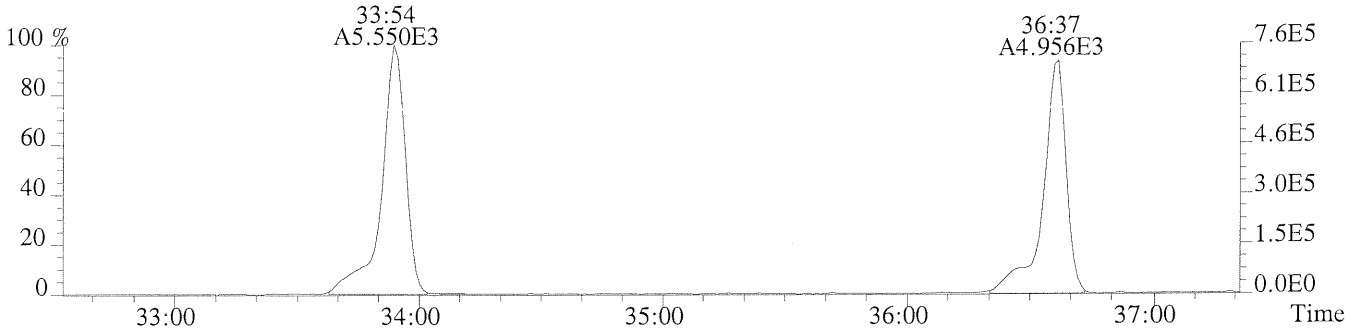
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



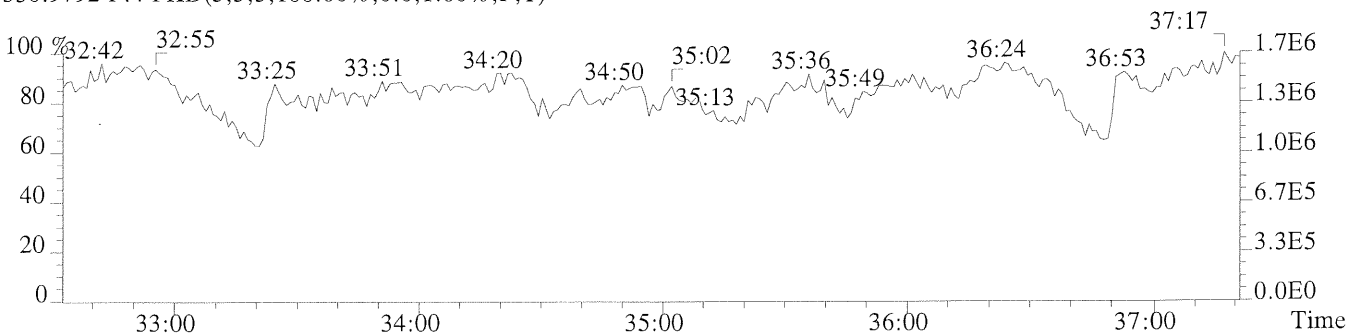
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3804.0,1.00%,F,T)



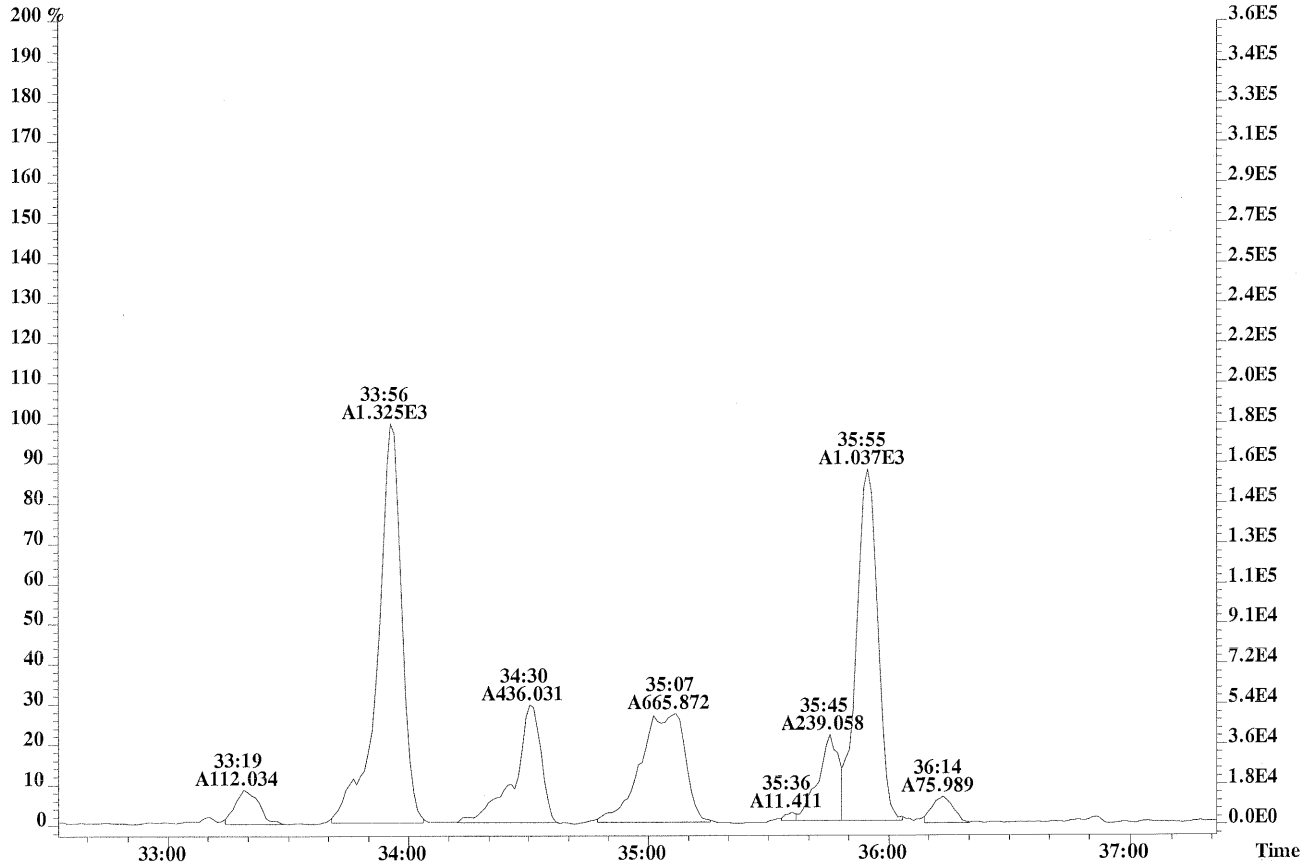
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2372.0,1.00%,F,T)



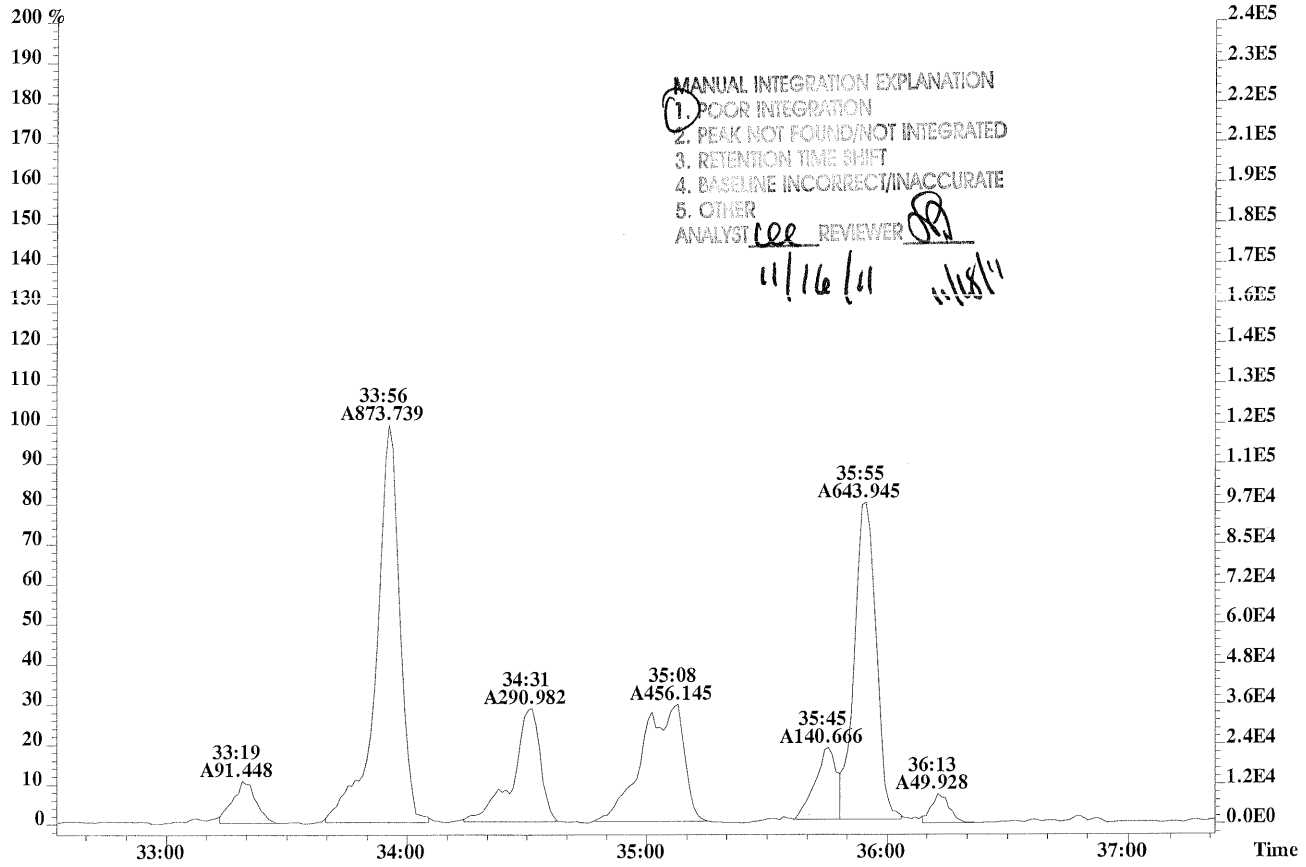
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142068 #1-308 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1544.0,1.00%,F,T)

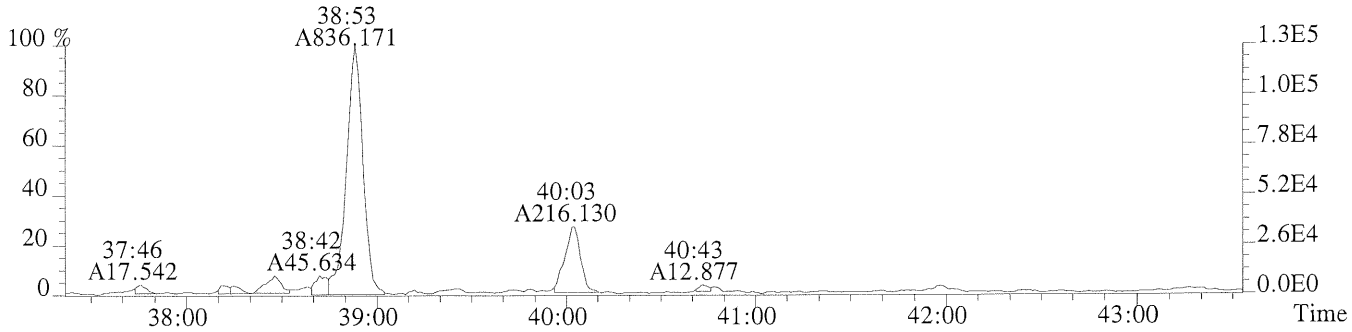


327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)

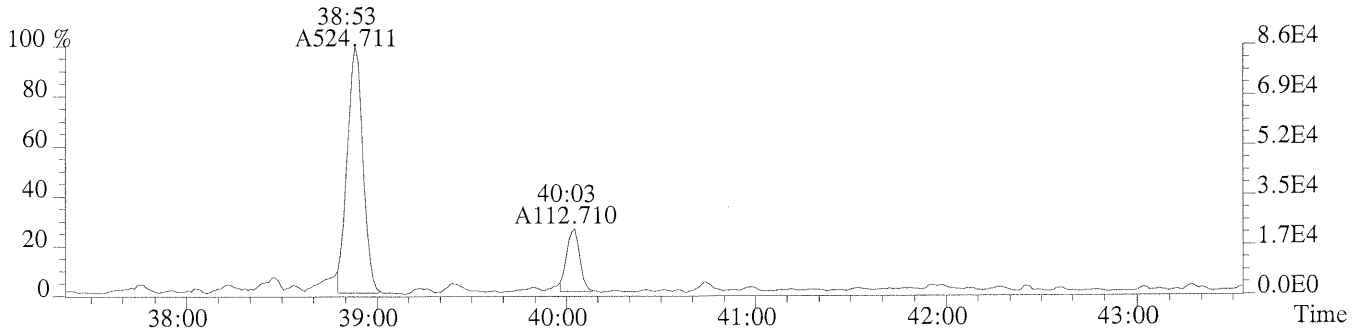


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST lee REVIEWER
11/16/11 11/18/11

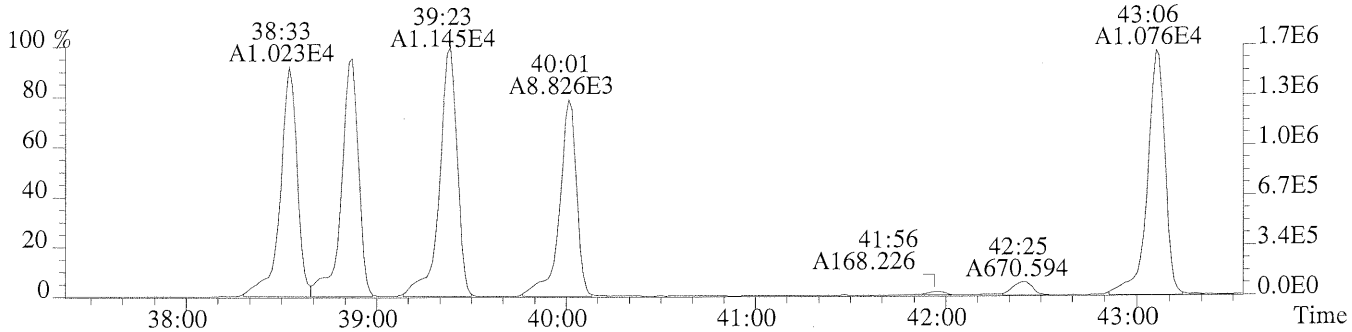
File:U142068 #1-396 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1732.0,1.00%,F,T)



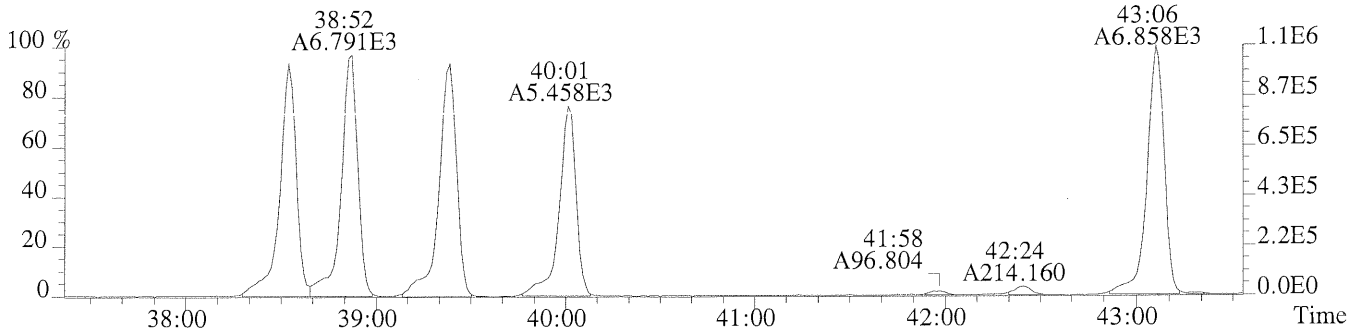
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2448.0,1.00%,F,T)



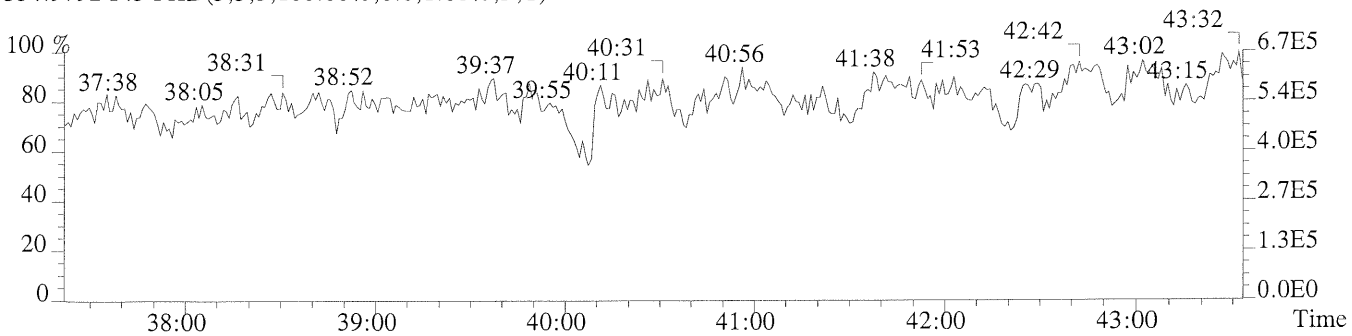
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4172.0,1.00%,F,T)



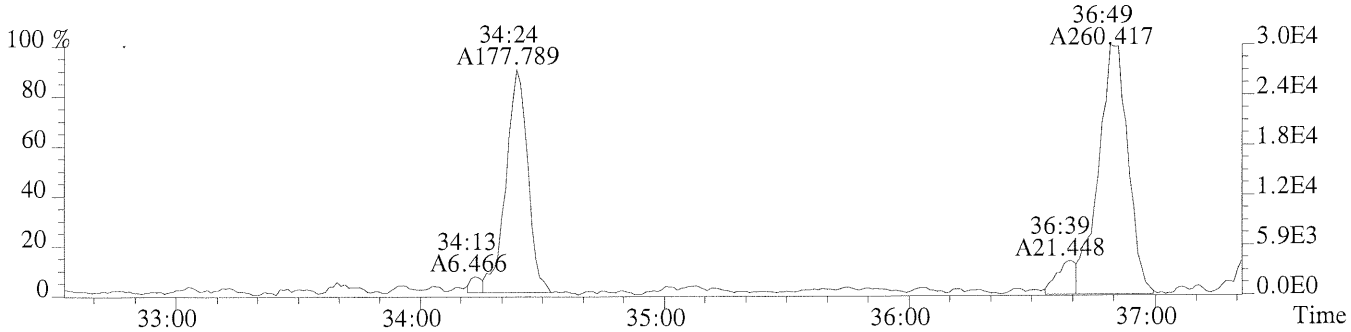
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3908.0,1.00%,F,T)



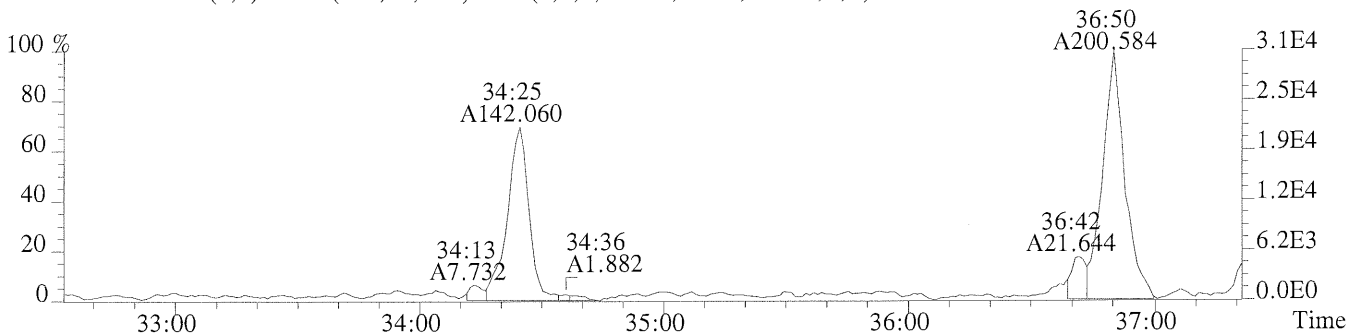
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



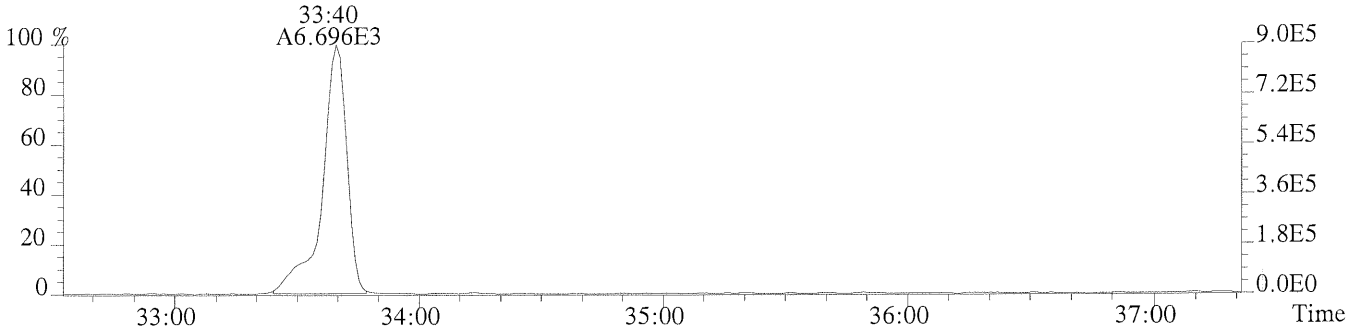
File:U142068 #1-308 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,768.0,1.00%,F,T)



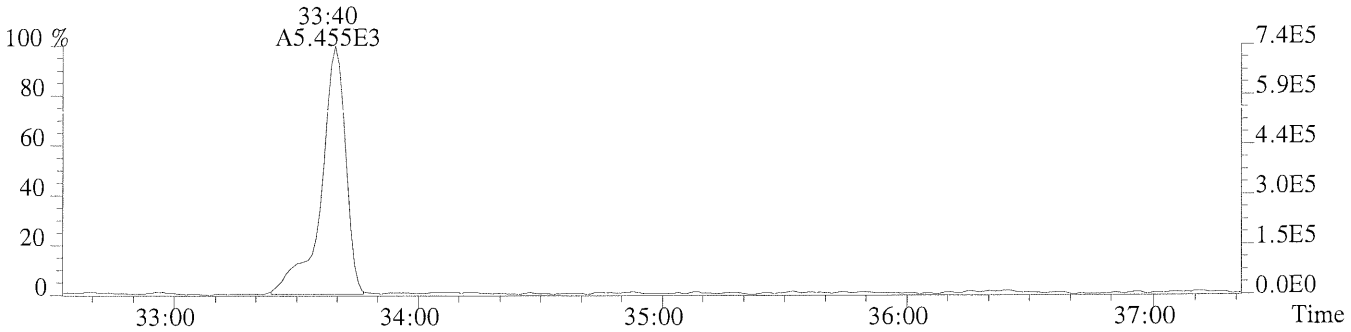
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)



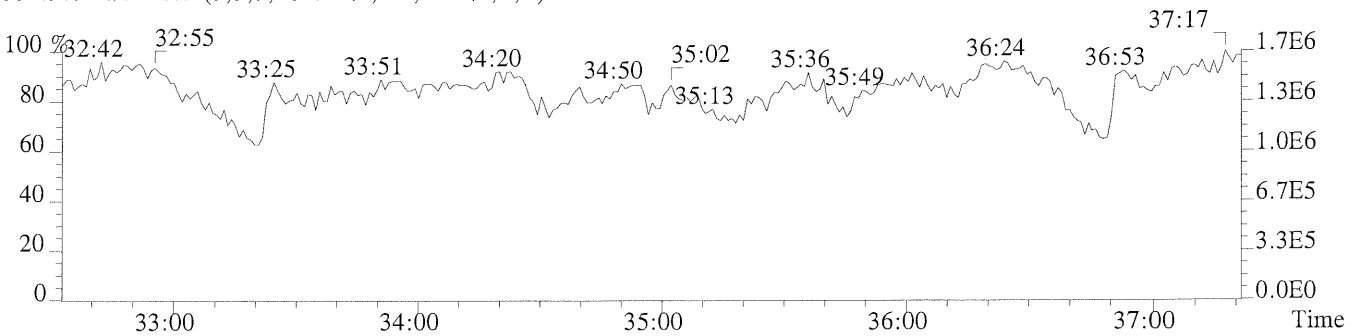
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3868.0,1.00%,F,T)



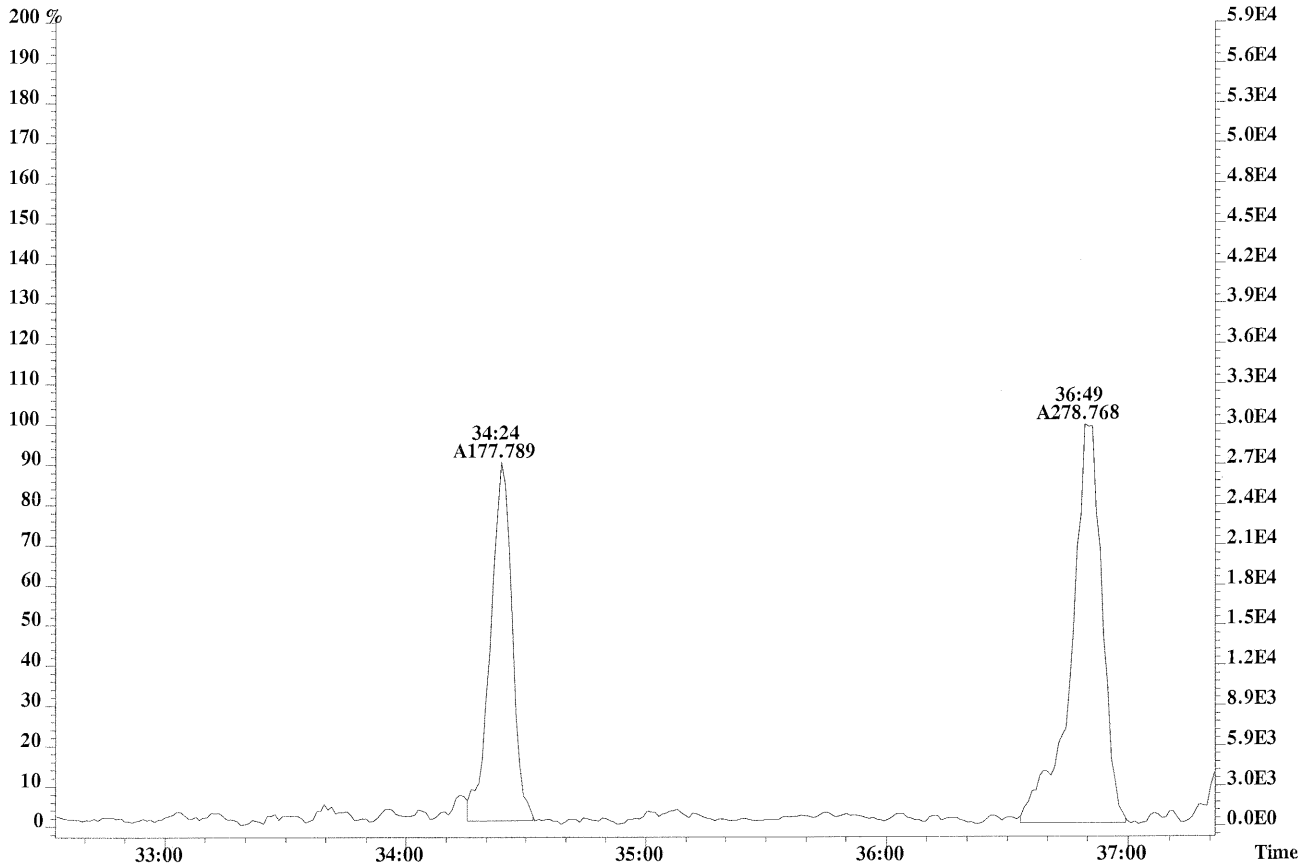
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7336.0,1.00%,F,T)



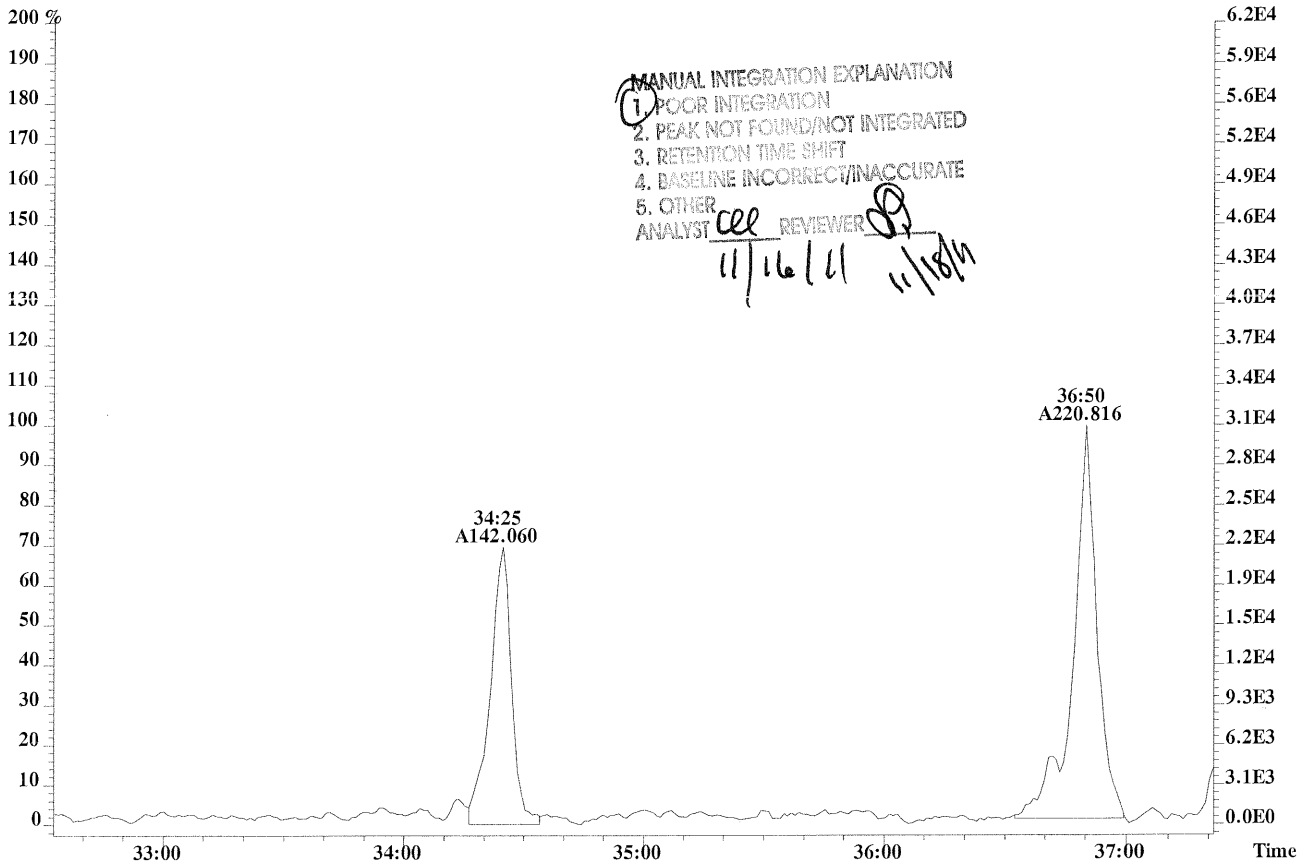
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142068 #1-308 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,768.0,1.00%,F,T)



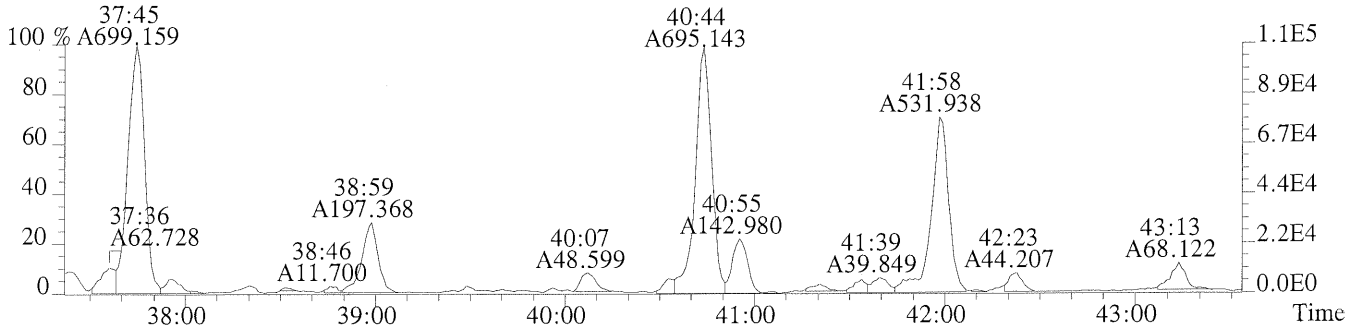
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)



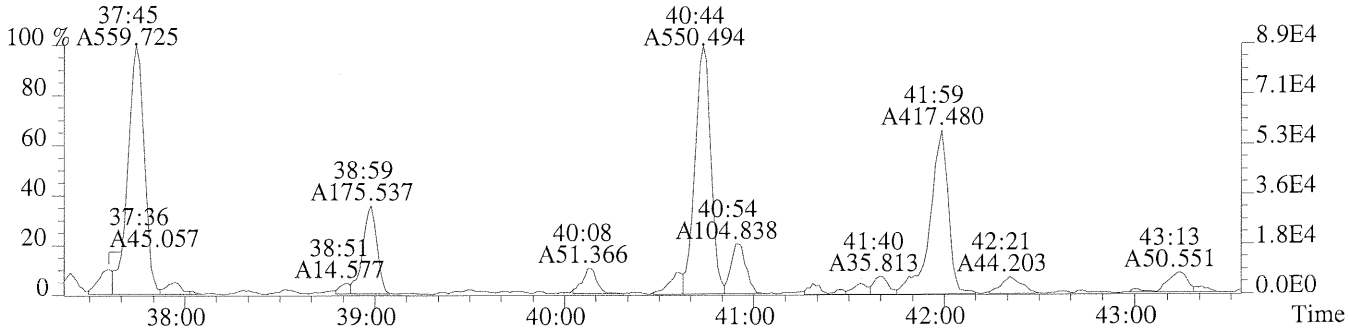
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cll REVIEWER
11/16/11 11/18/11

File:U142068 #1-396 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

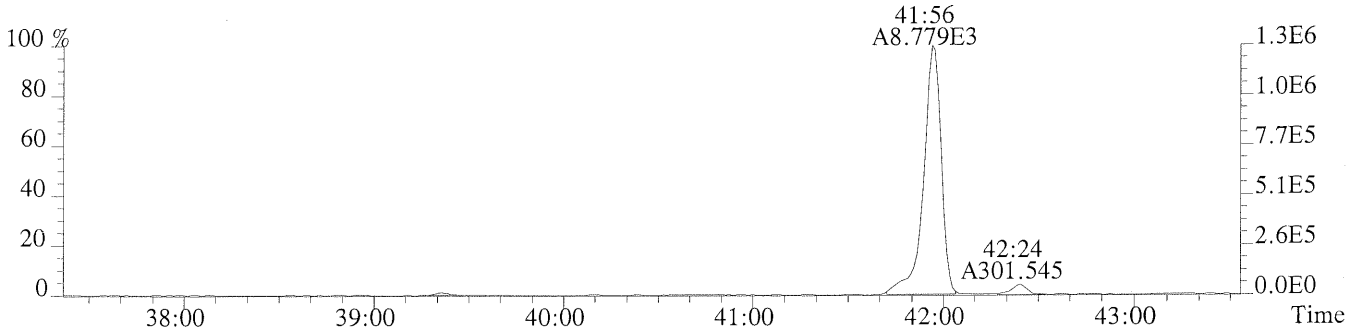
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1100.0,1.00%,F,T)



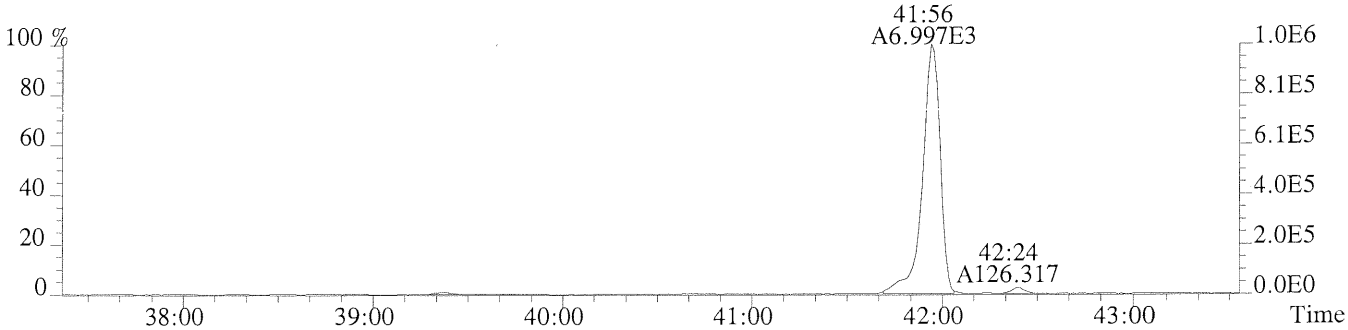
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)



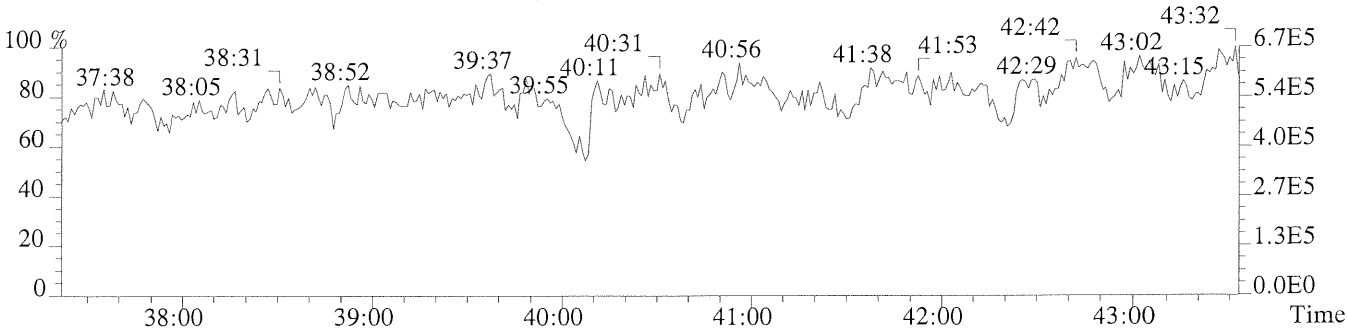
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1936.0,1.00%,F,T)



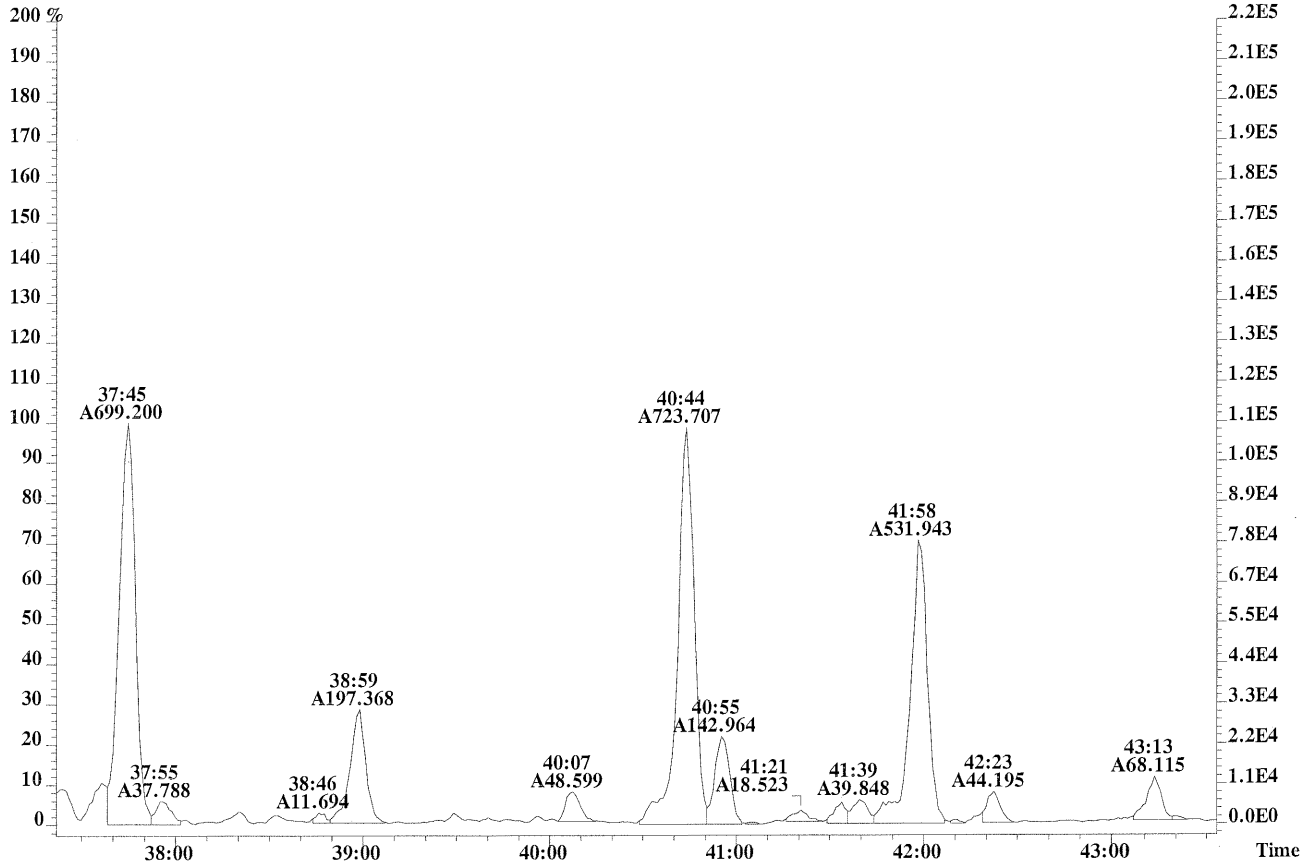
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2052.0,1.00%,F,T)



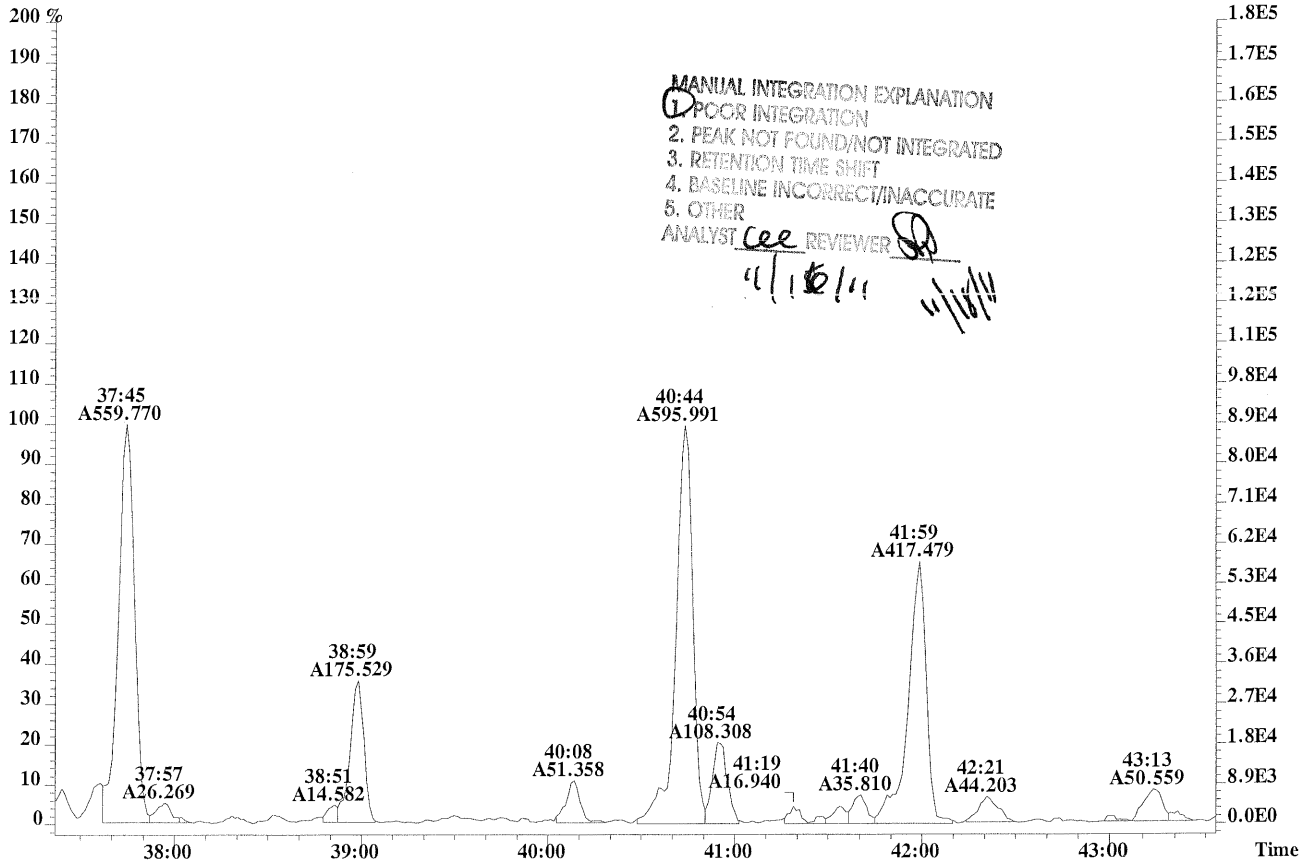
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142068 #1-396 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0)



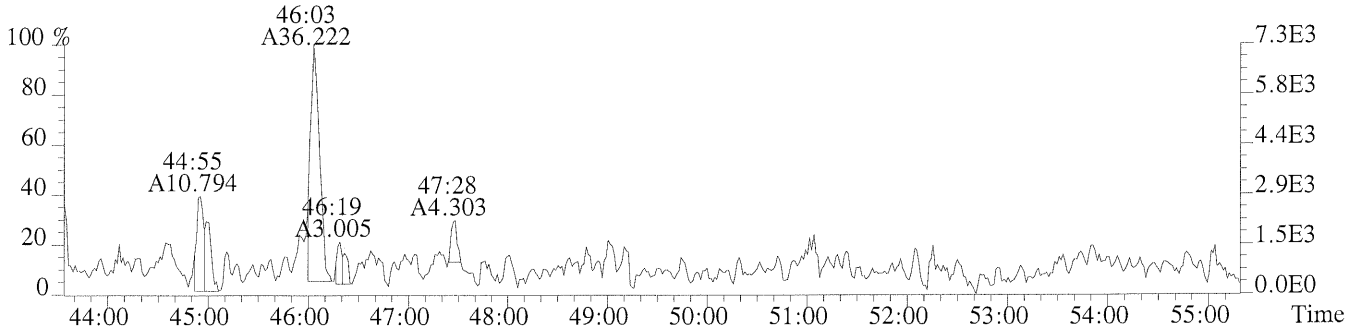
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0)



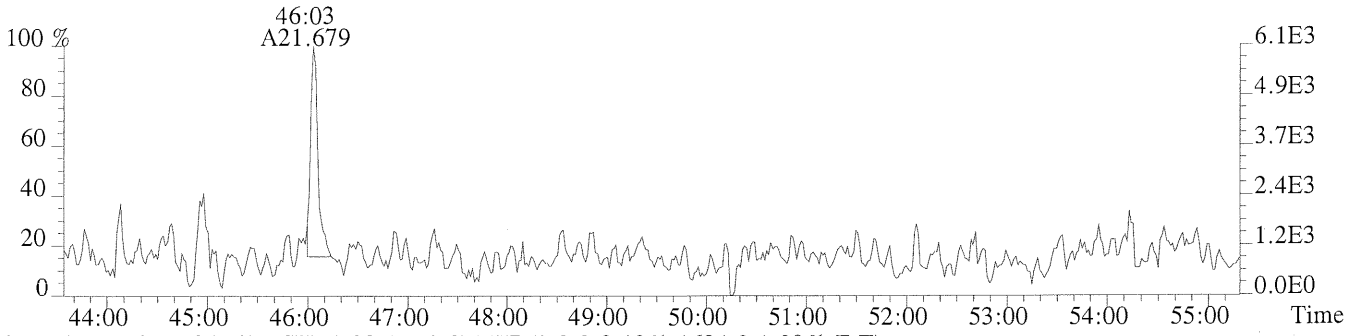
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Cee REVIEWER
11/16/11 11/16/11

File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

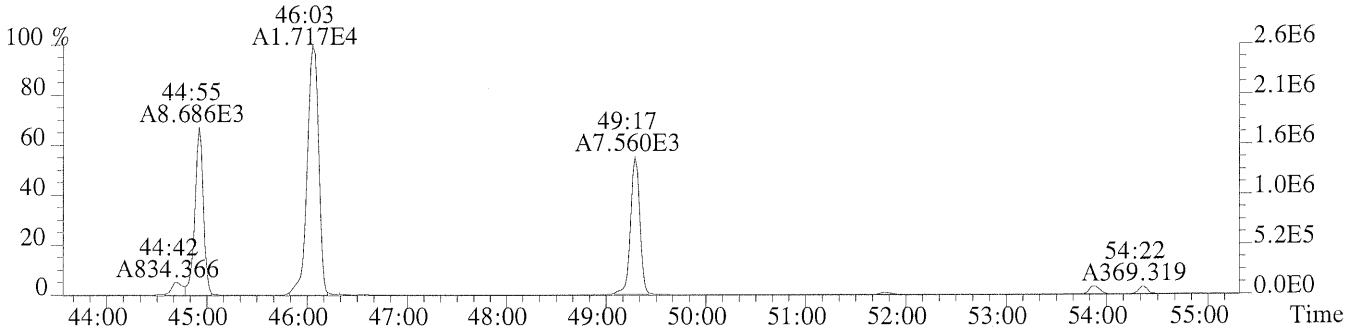
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1020.0,1.00%,F,T)



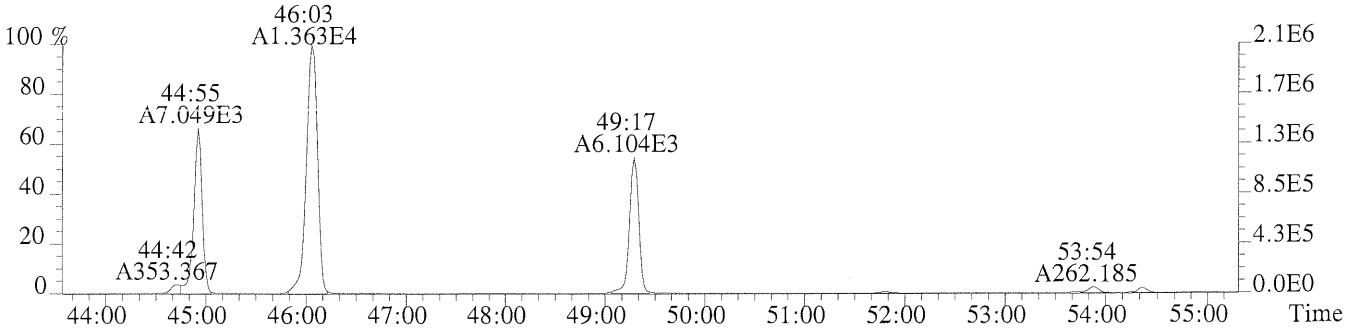
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)



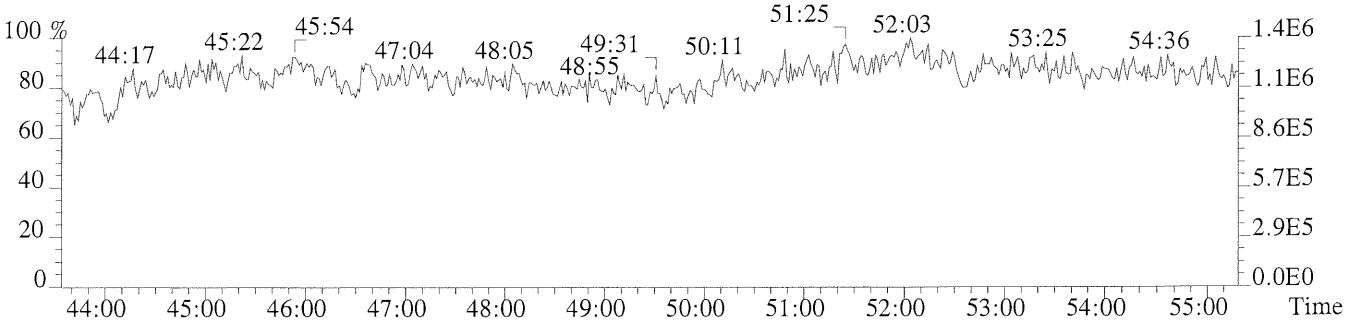
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1684.0,1.00%,F,T)



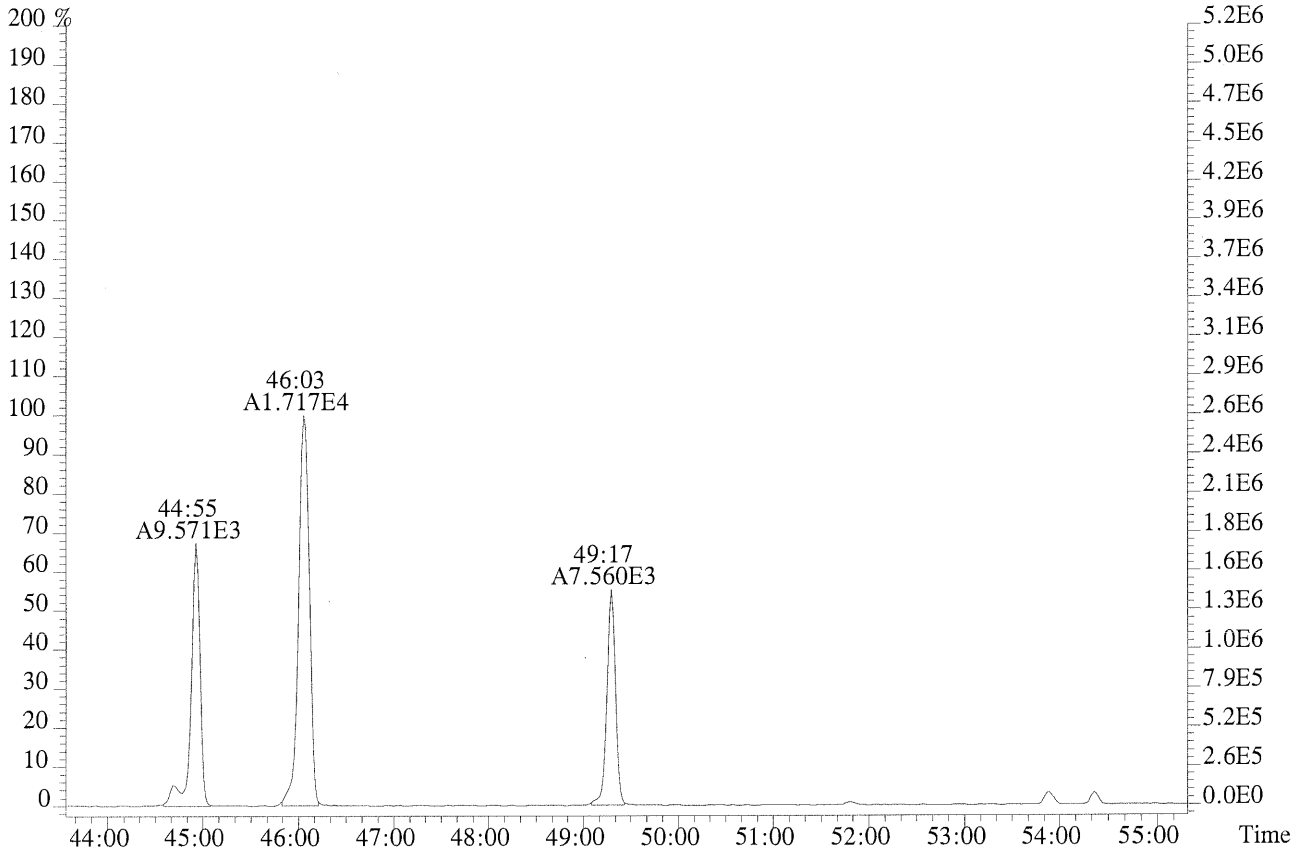
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1984.0,1.00%,F,T)



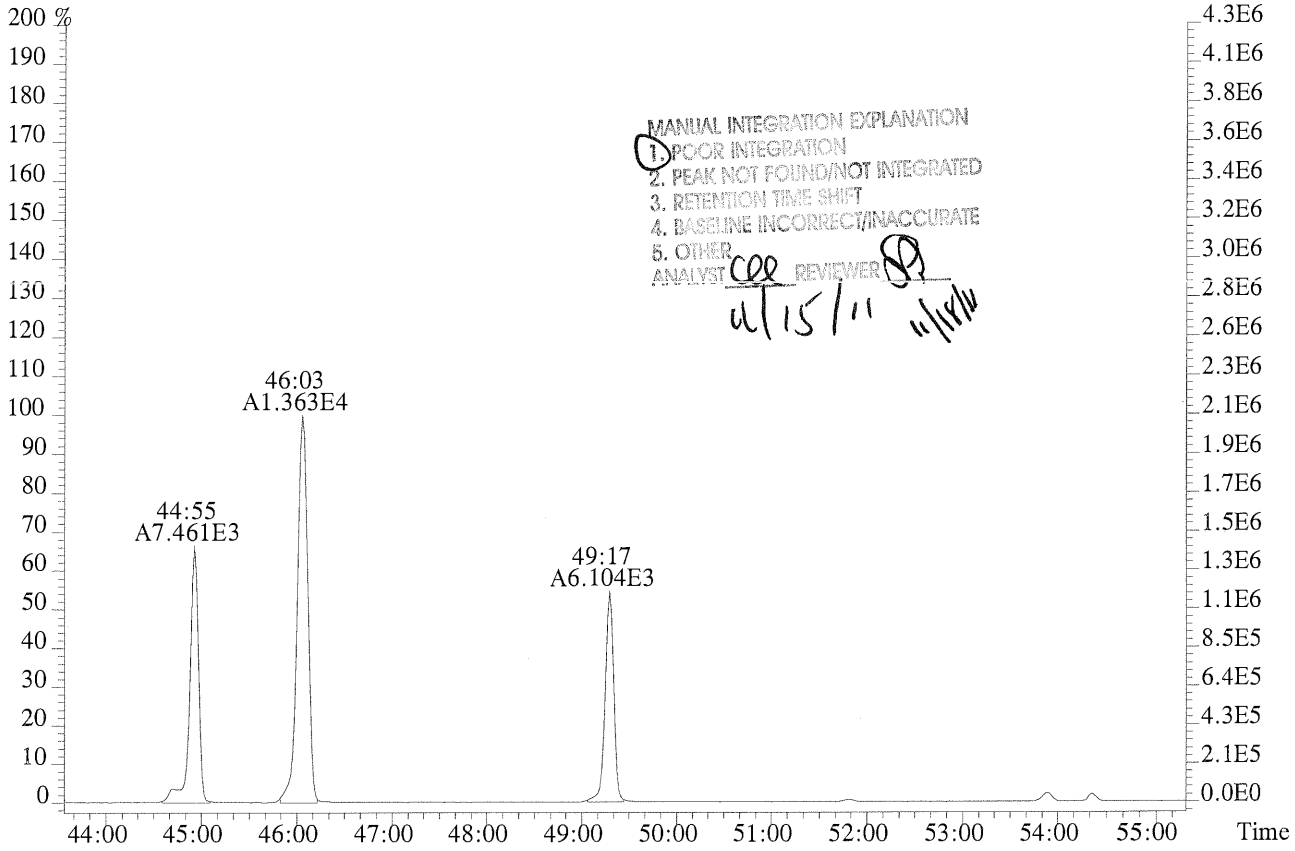
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1684.0,1.00%,F,T)

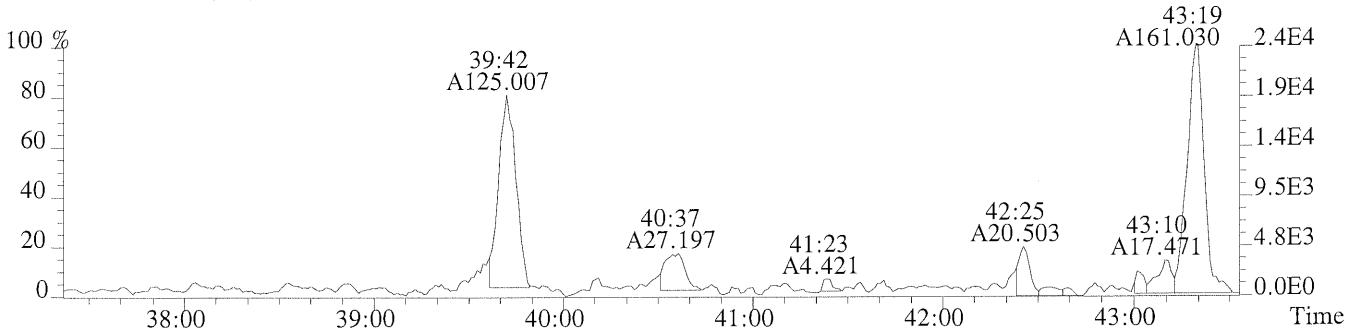


373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1984.0,1.00%,F,T)

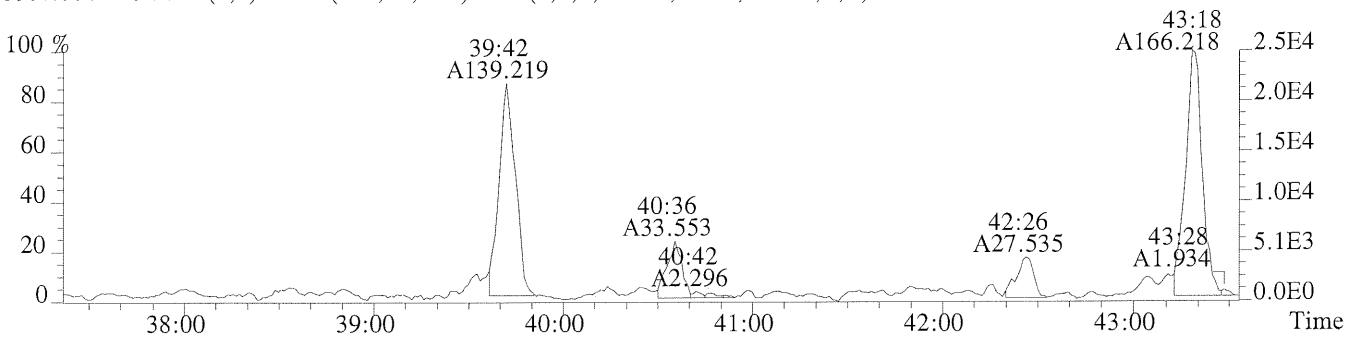


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CEE REVIEWER
11/15/11 11/15/11

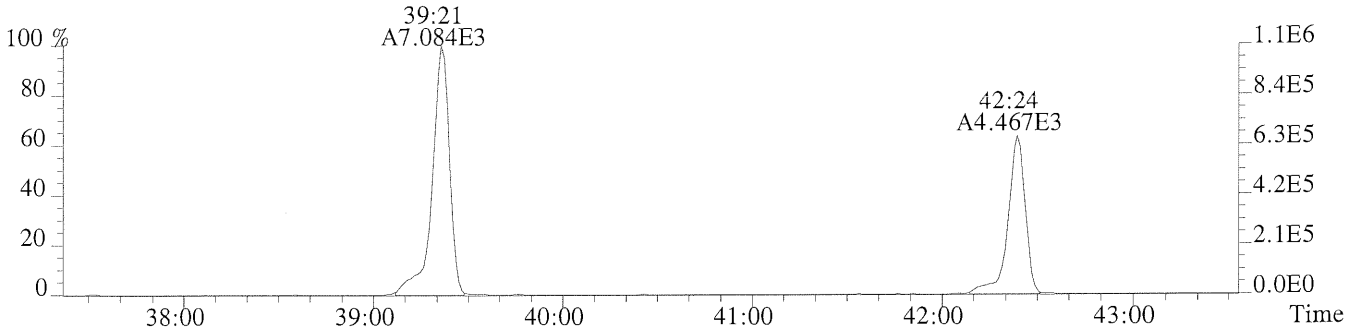
File:U142068 #1-396 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)



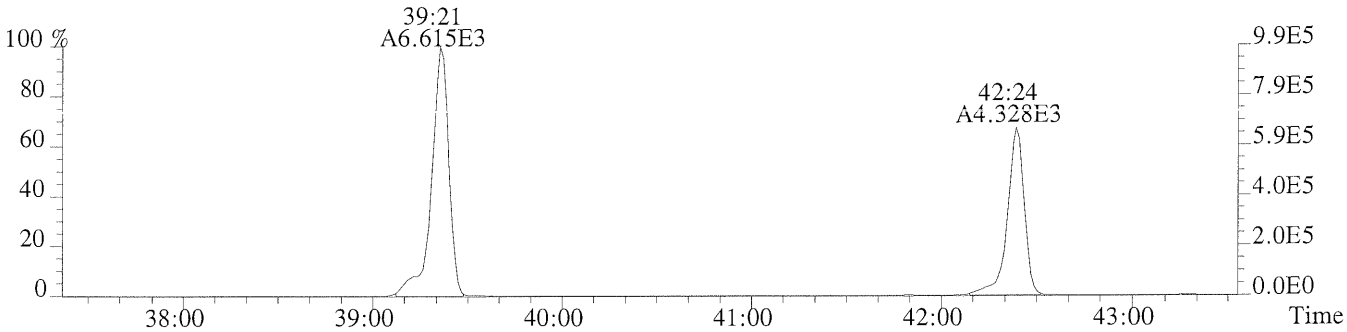
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



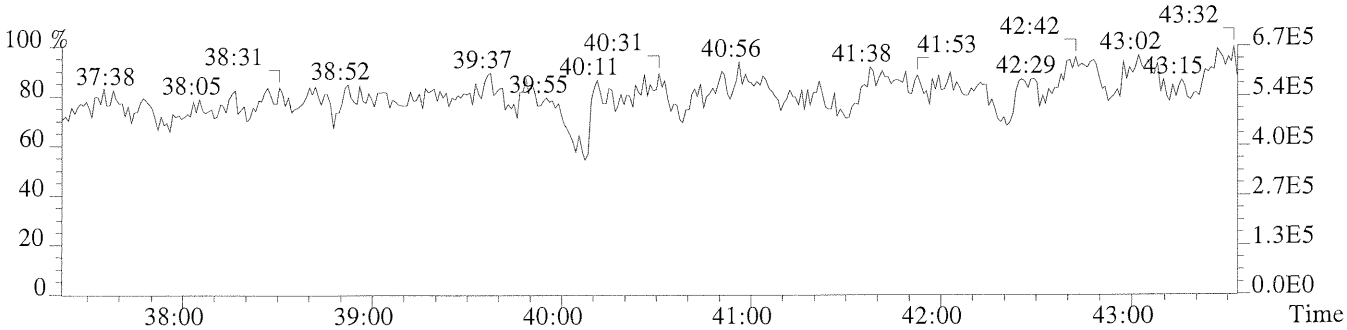
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



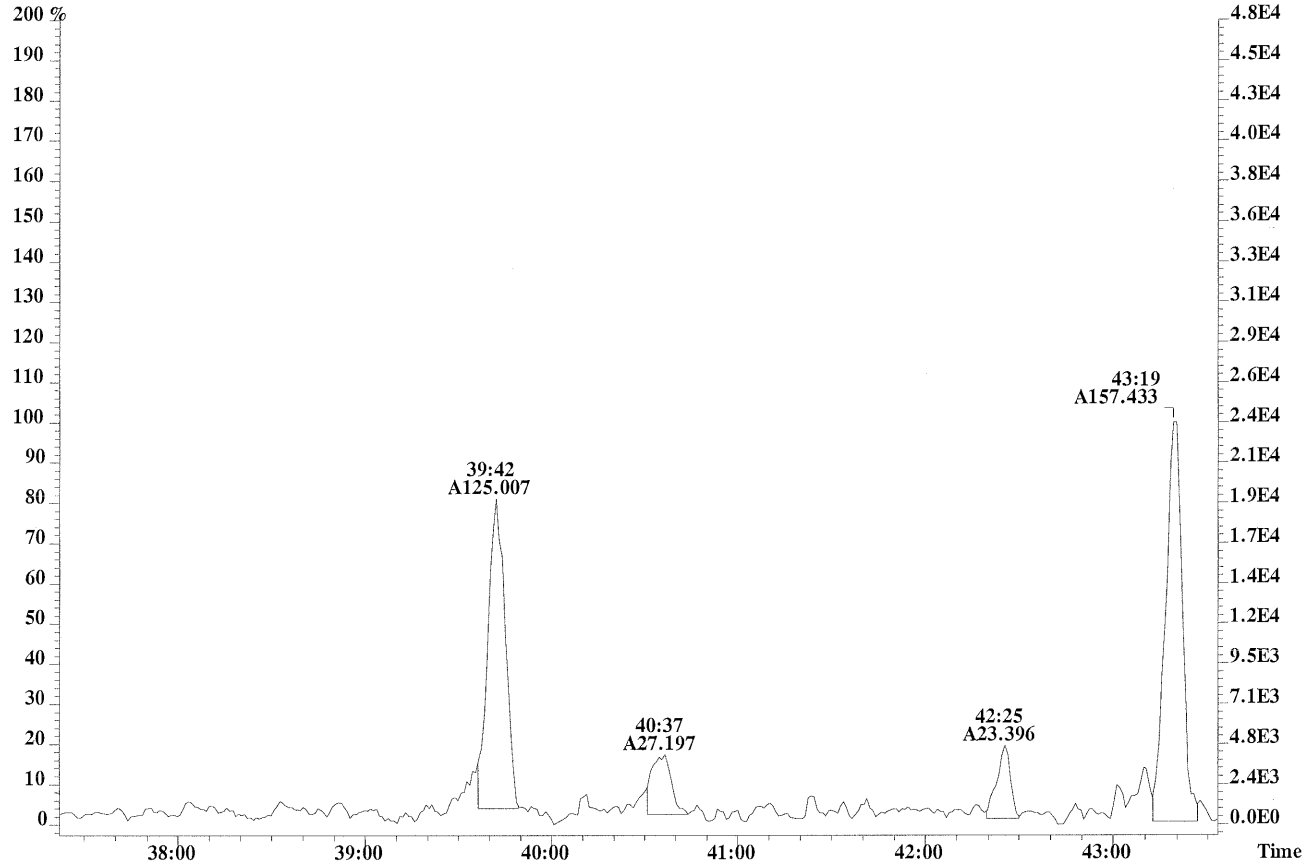
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,768.0,1.00%,F,T)



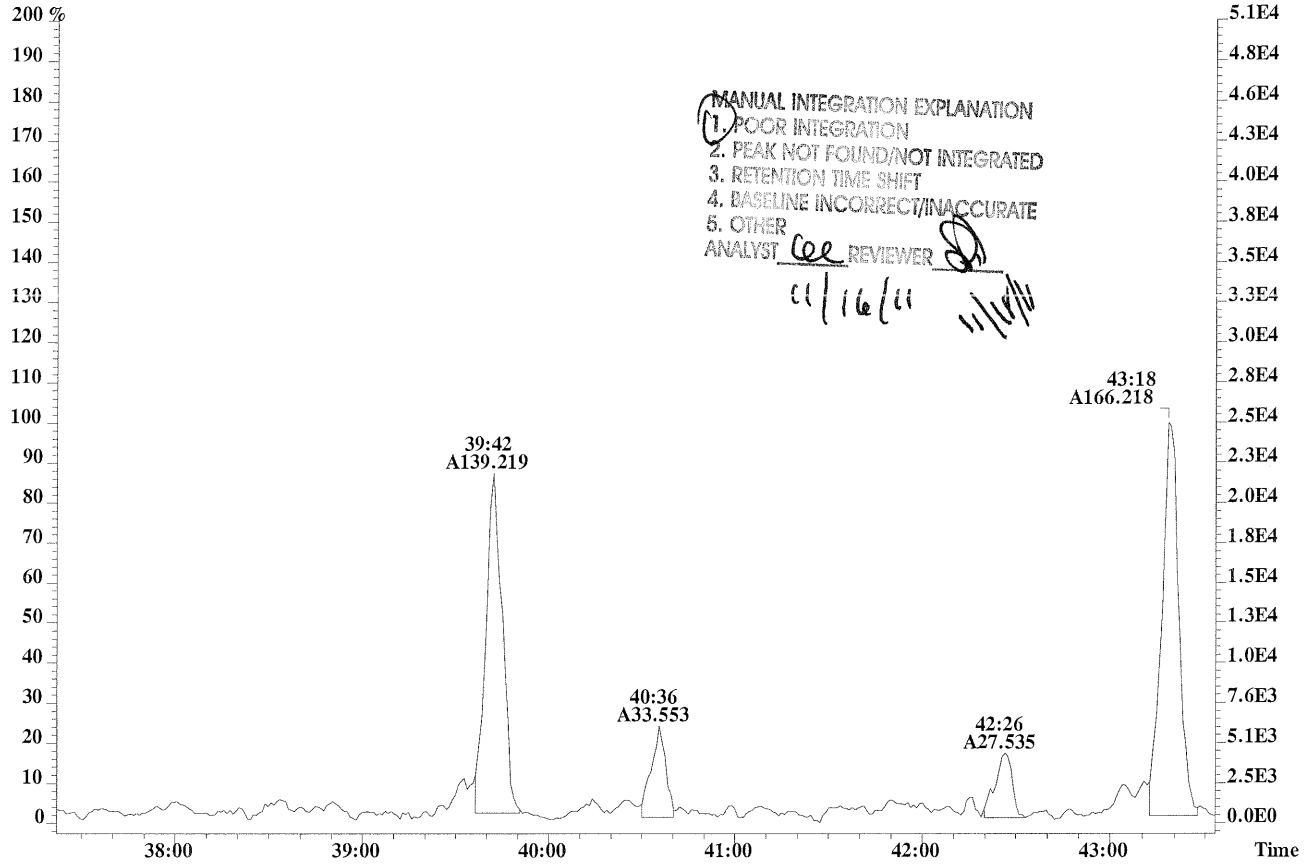
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142068 #1-396 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)

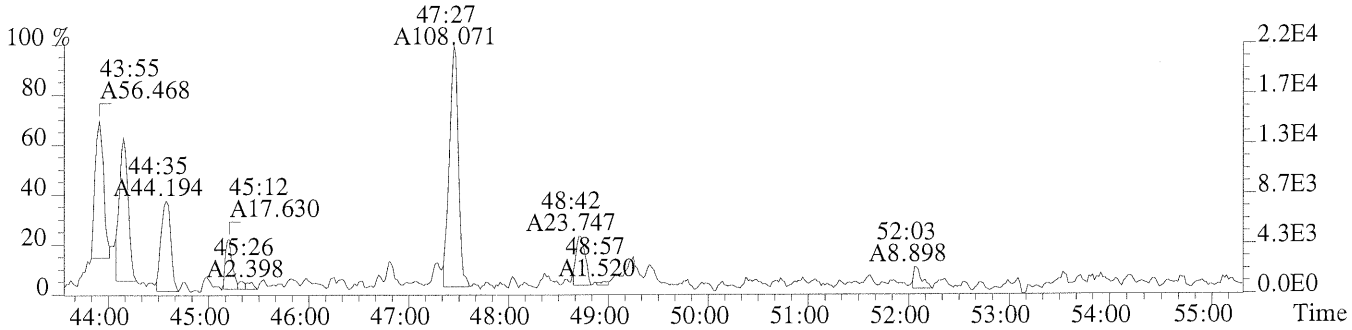


395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)

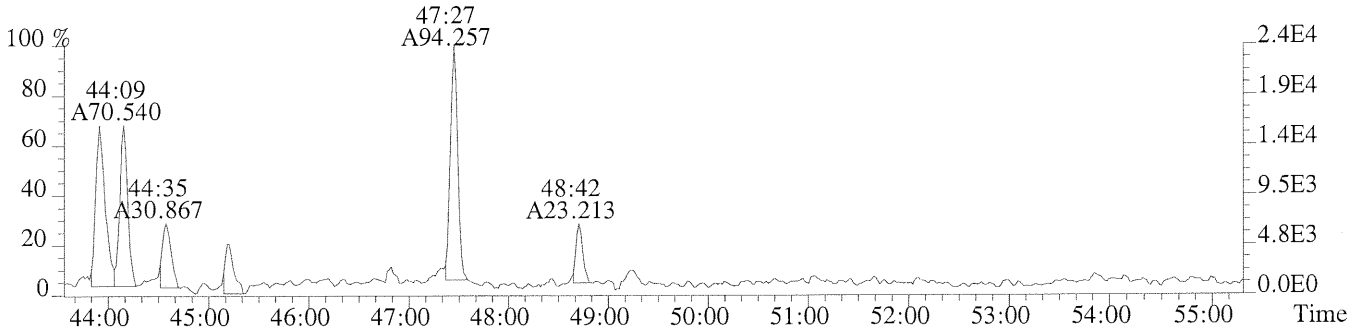


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Cee REVIEWER
11/16/11 11/17/11

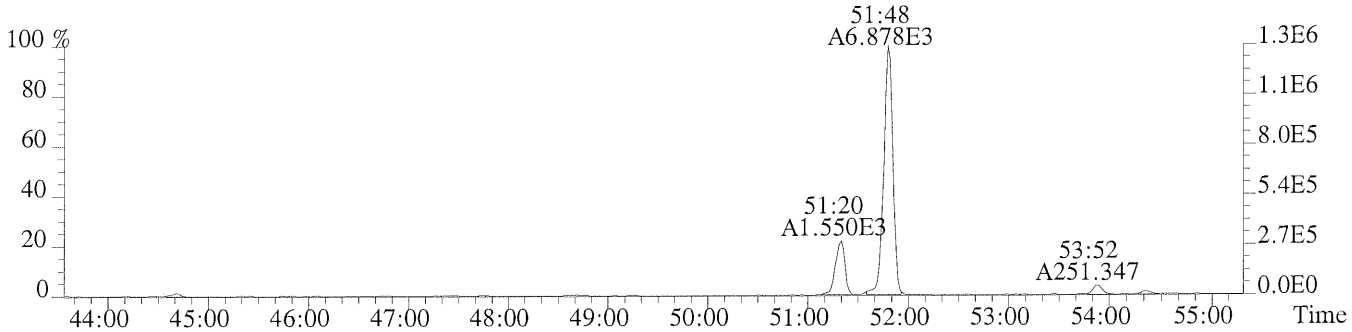
File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)



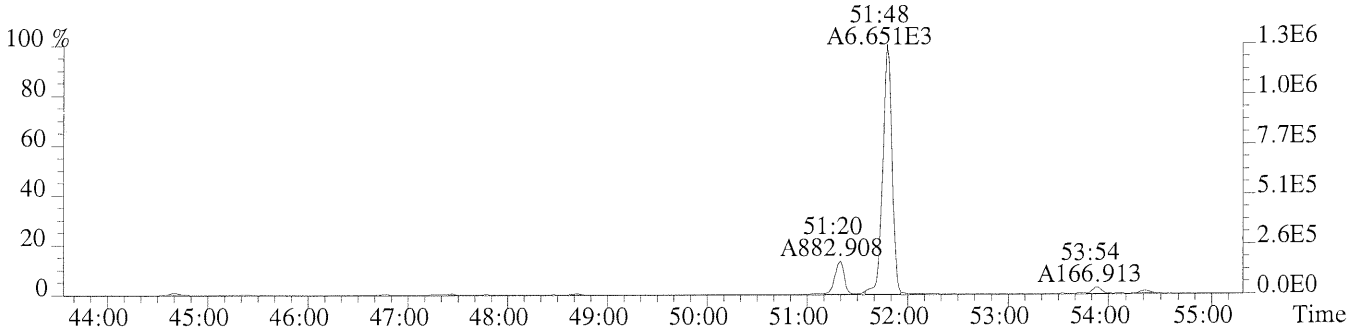
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1540.0,1.00%,F,T)



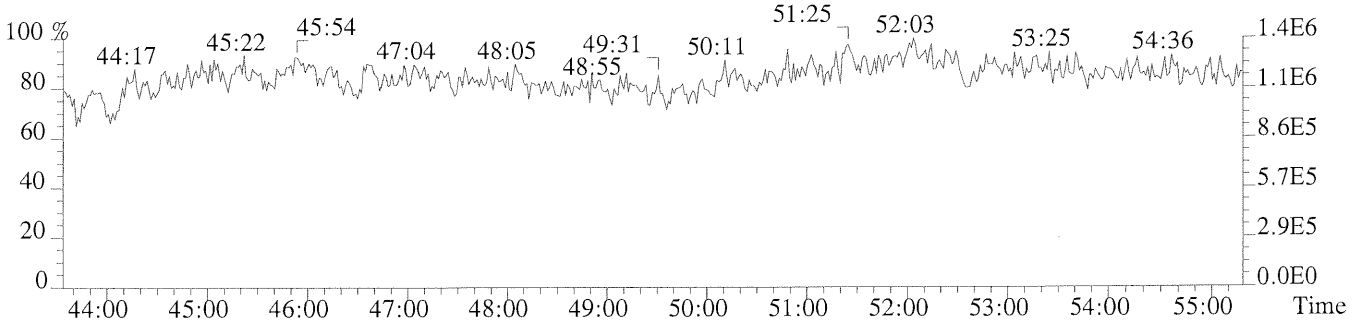
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1780.0,1.00%,F,T)



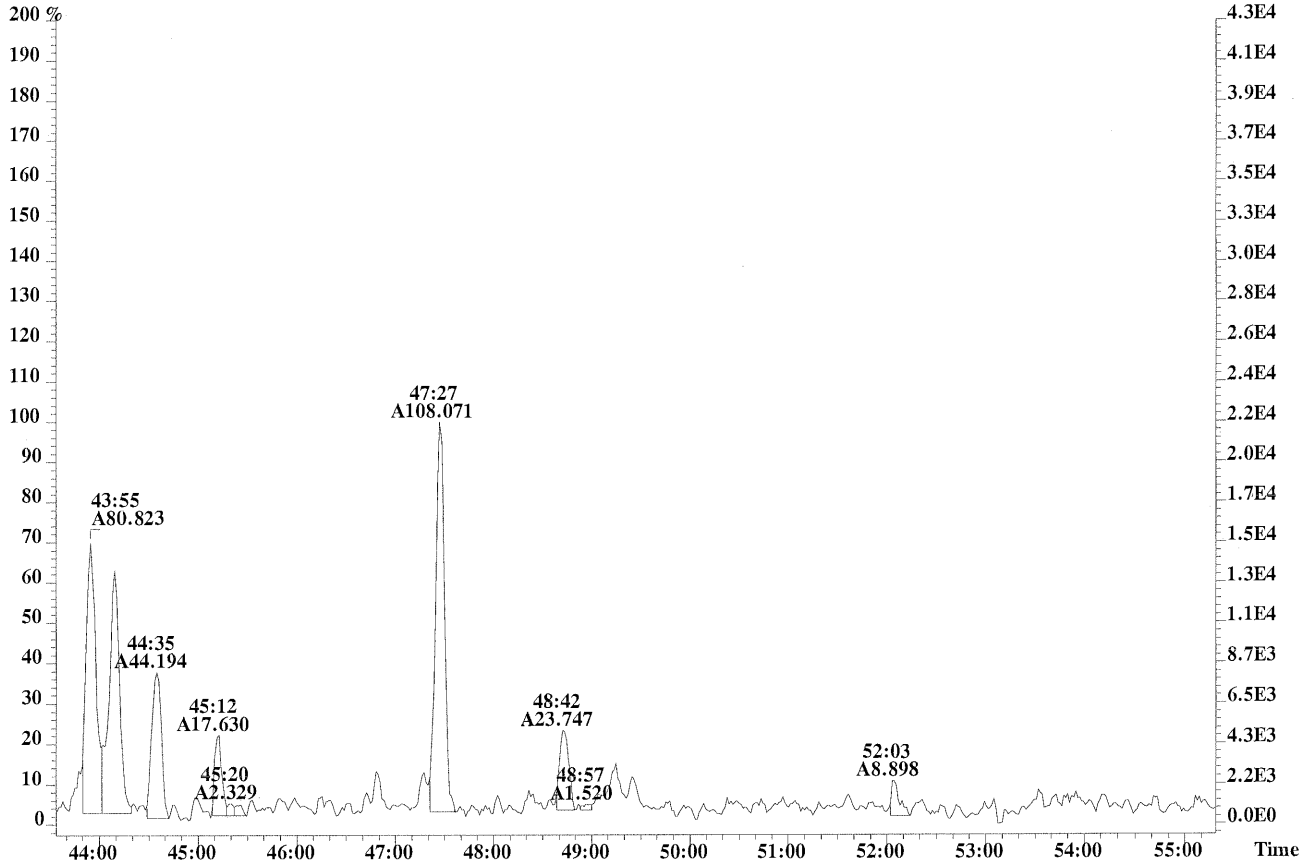
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1636.0,1.00%,F,T)



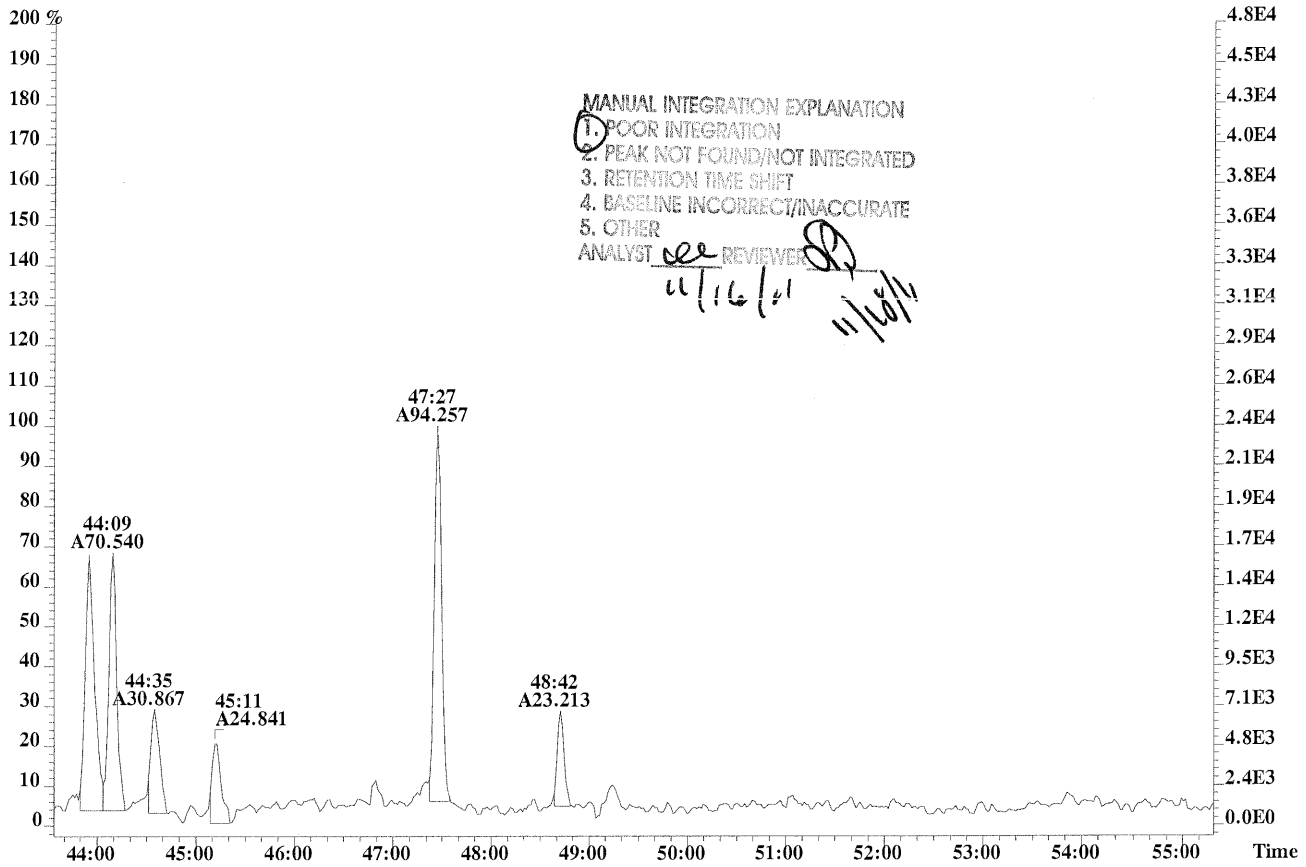
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)

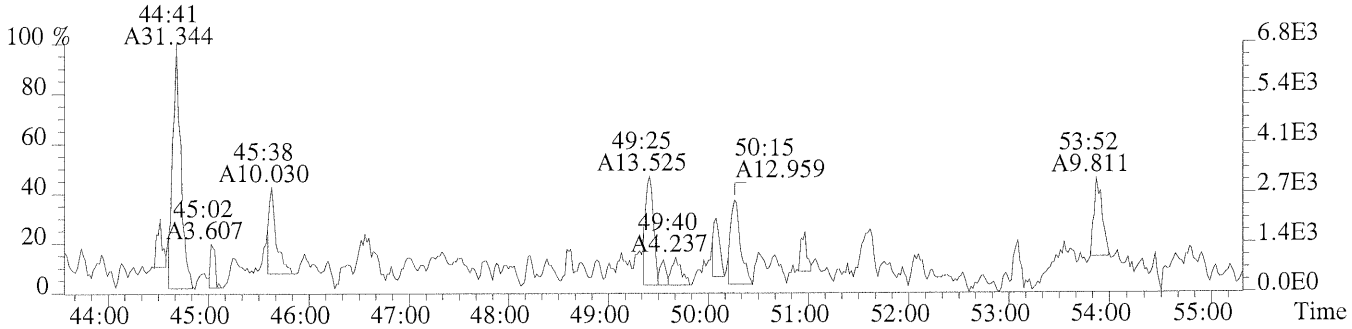


395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1540.0,1.00%,F,T)

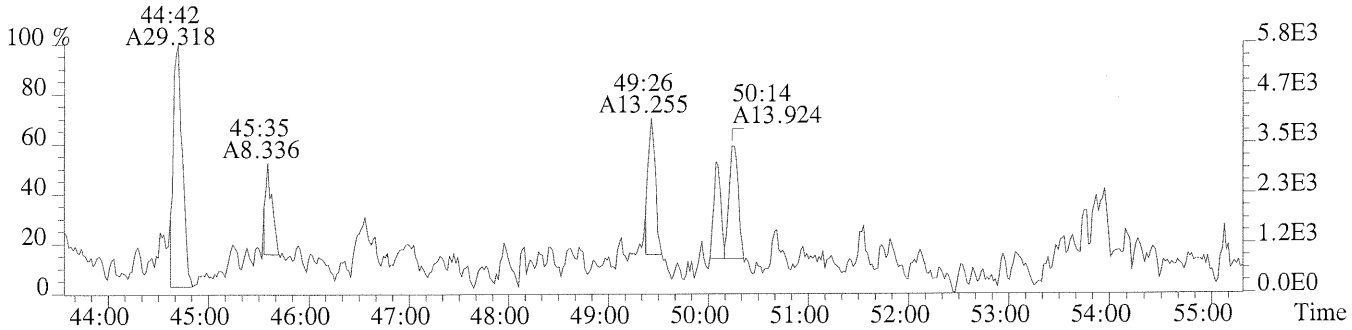


File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

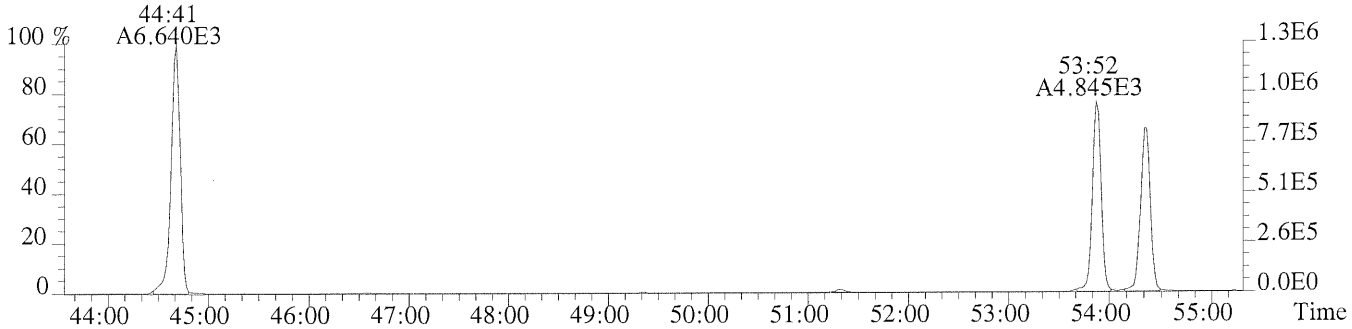
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)



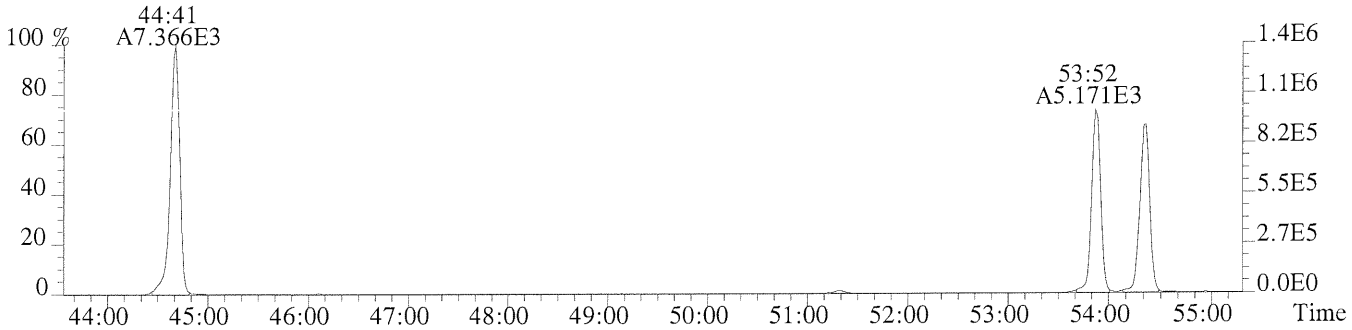
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



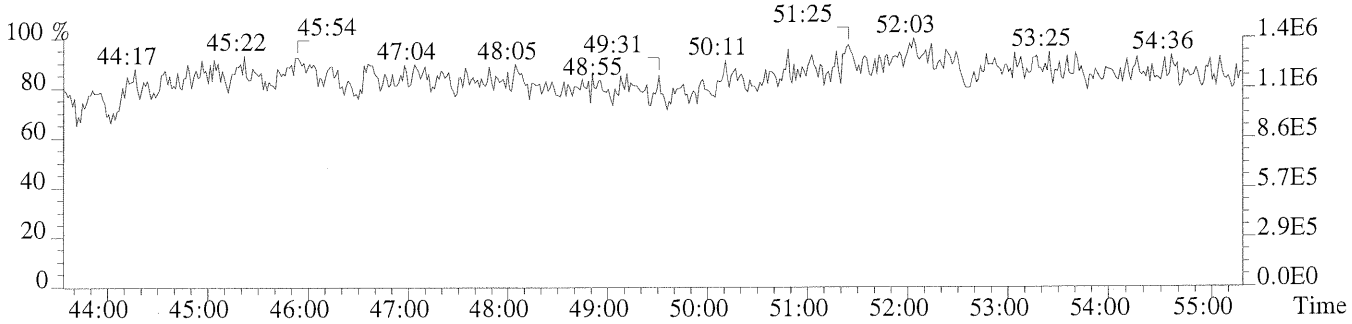
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



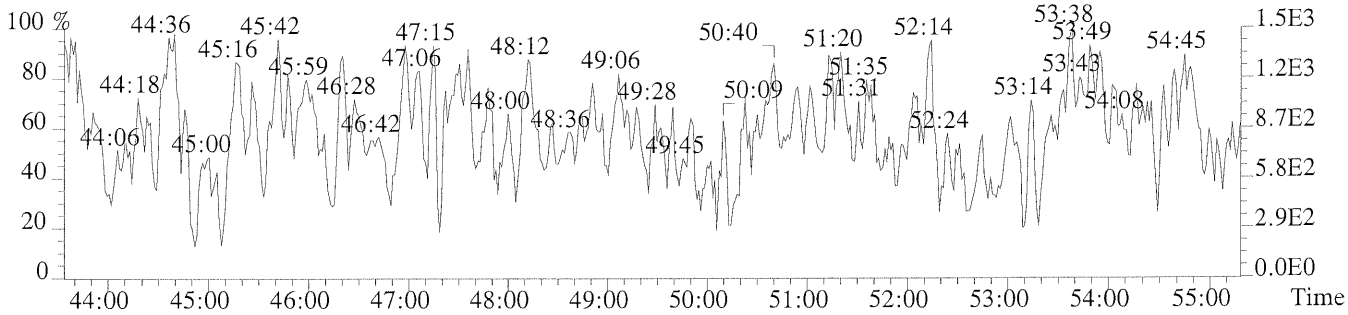
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1072.0,1.00%,F,T)



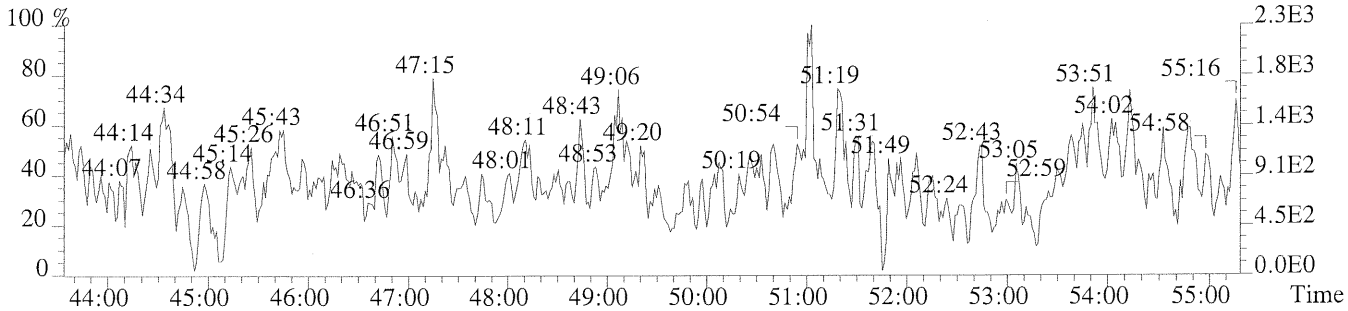
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



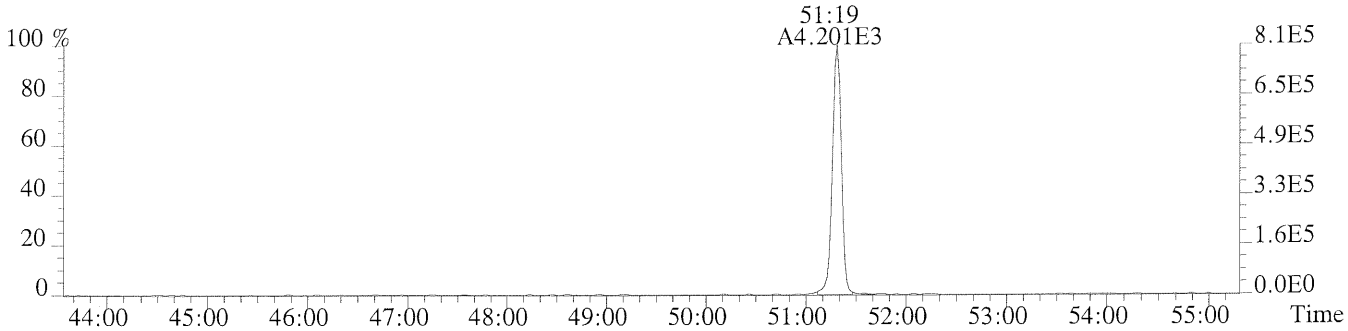
File:U142068 #1-582 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1136.0,1.00%,F,T)



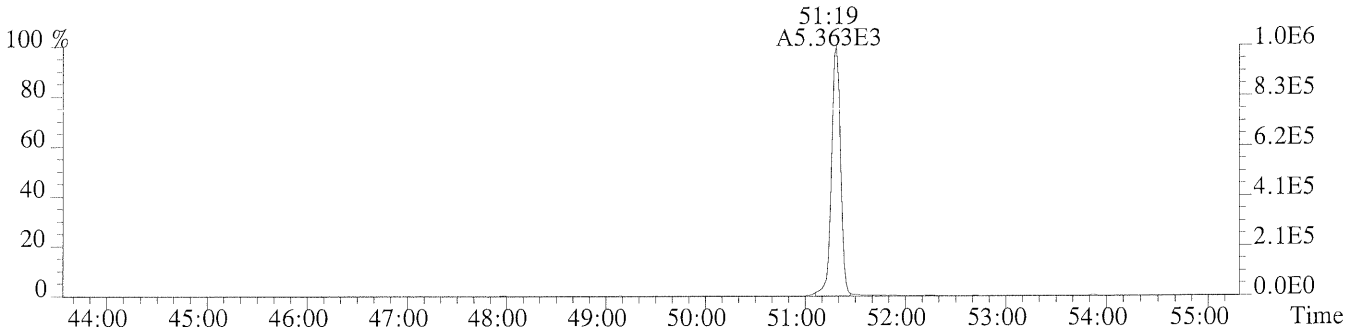
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1120.0,1.00%,F,T)



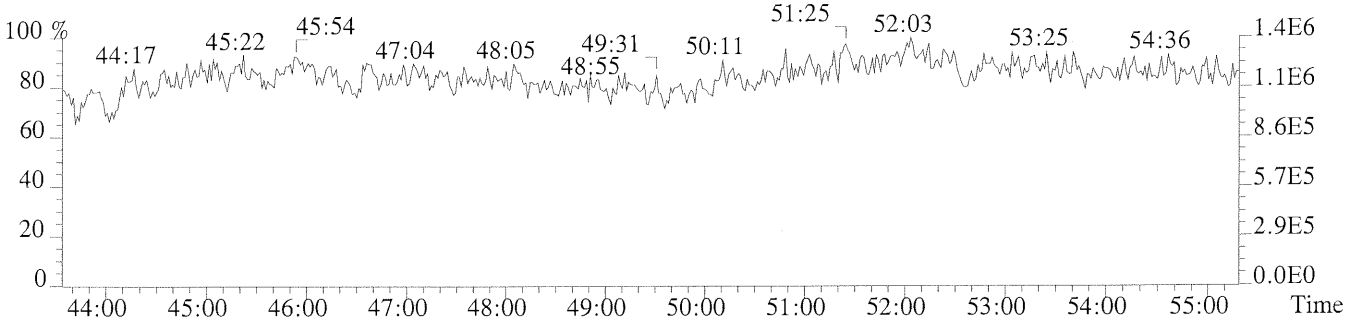
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1088.0,1.00%,F,T)



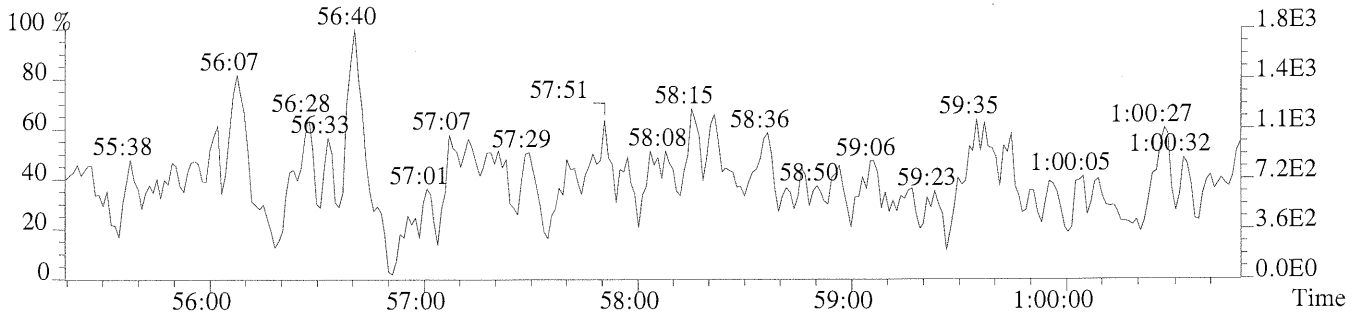
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



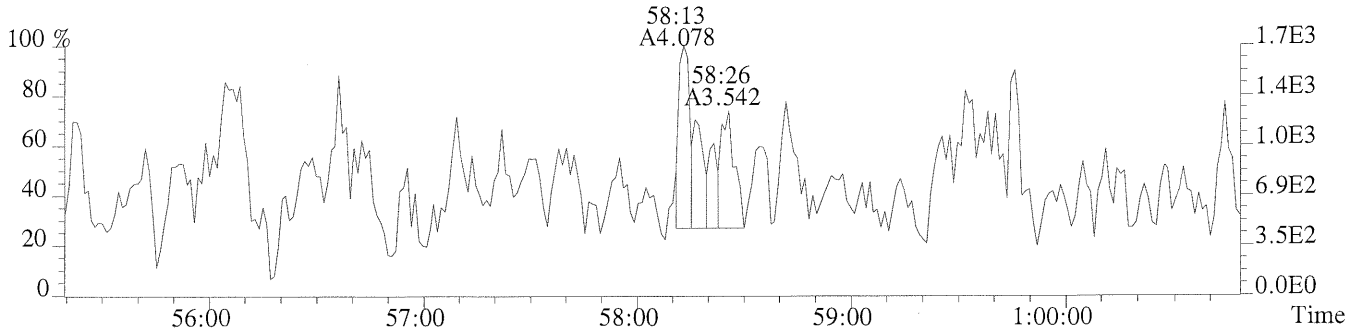
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



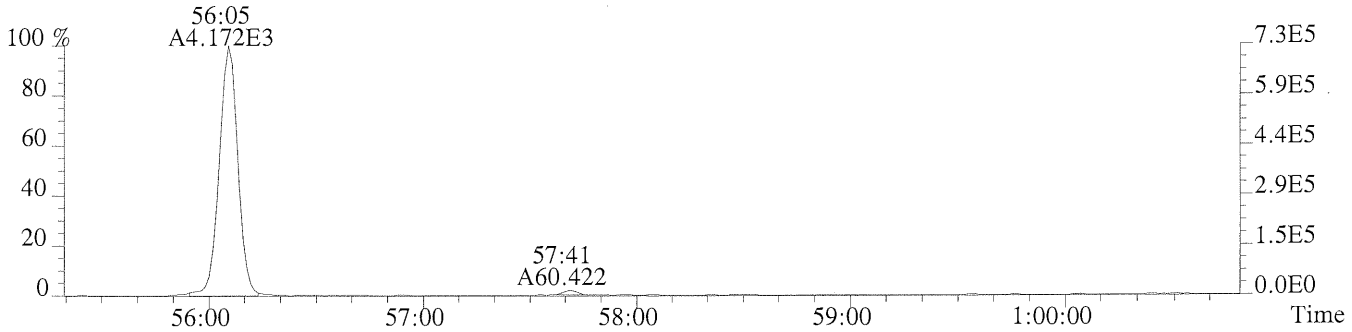
File:U142068 #1-310 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



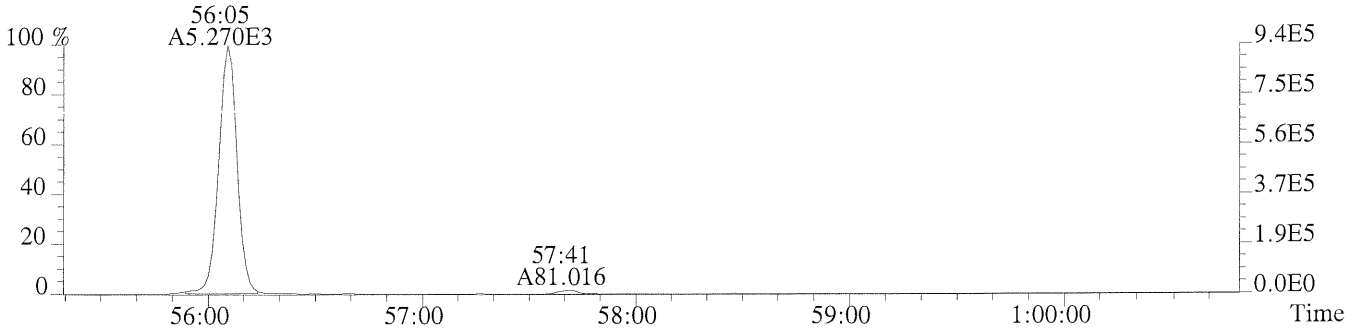
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,968.0,1.00%,F,T)



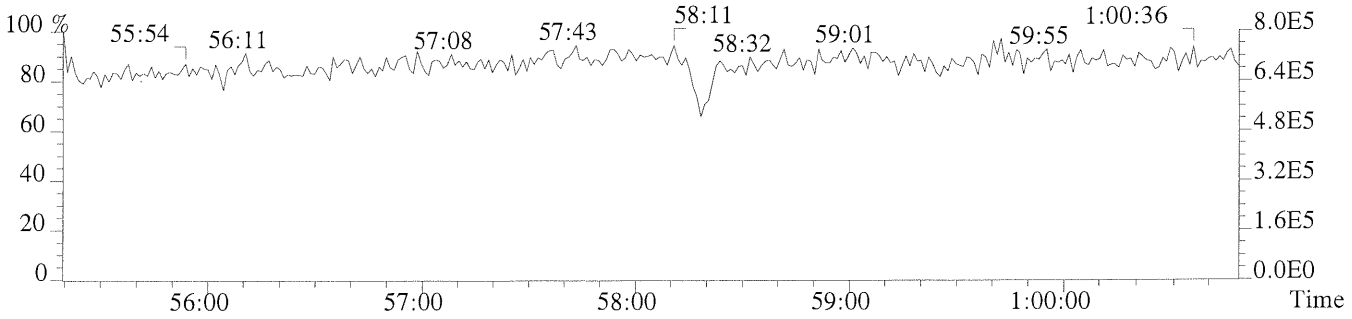
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)

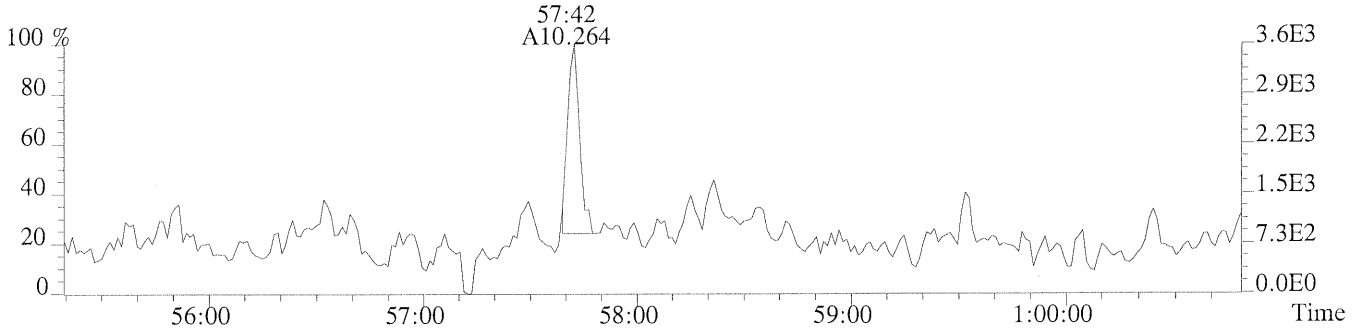


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

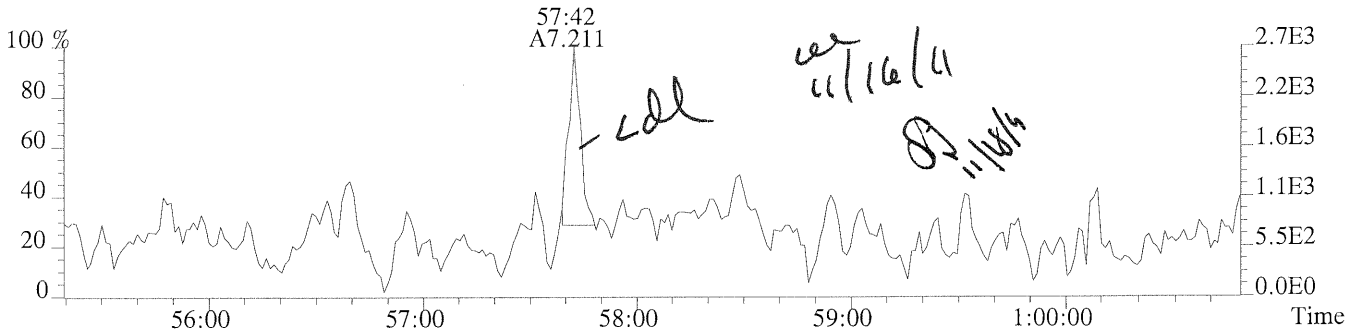


File:U142068 #1-310 Acq: 8-NOV-2011 12:46:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-008 B4-OA1-PCBs

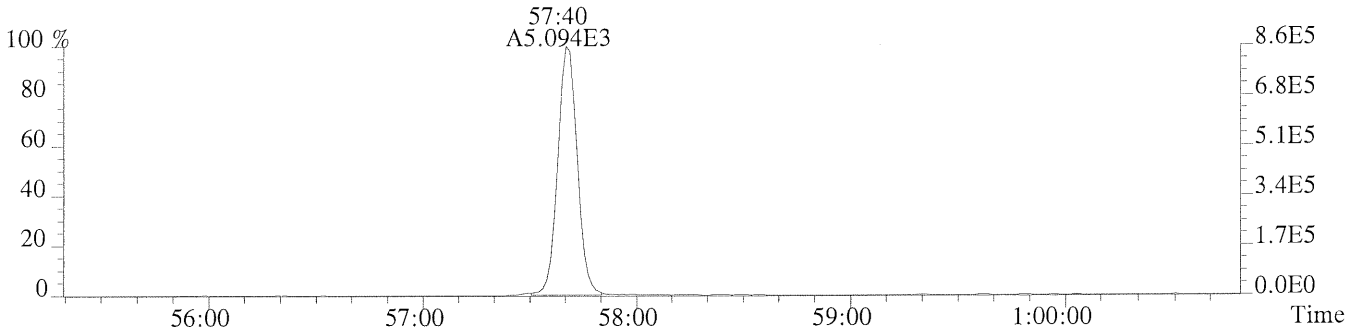
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,980.0,1.00%,F,T)



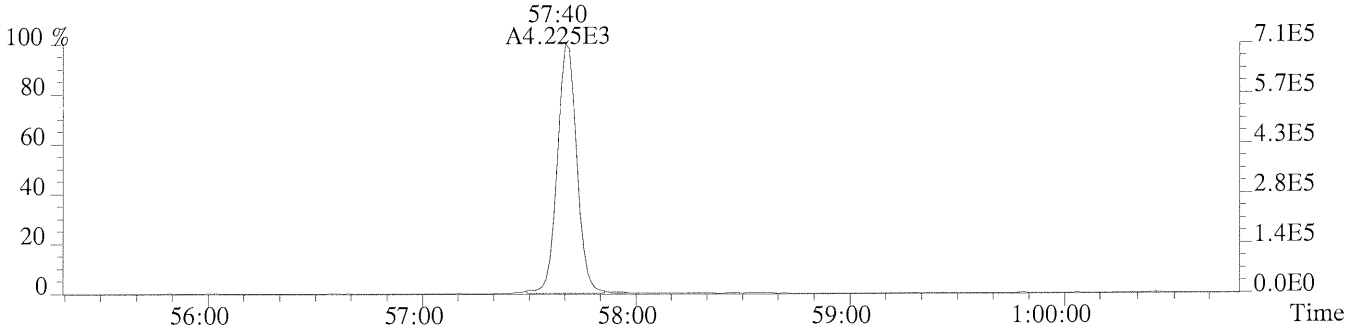
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)



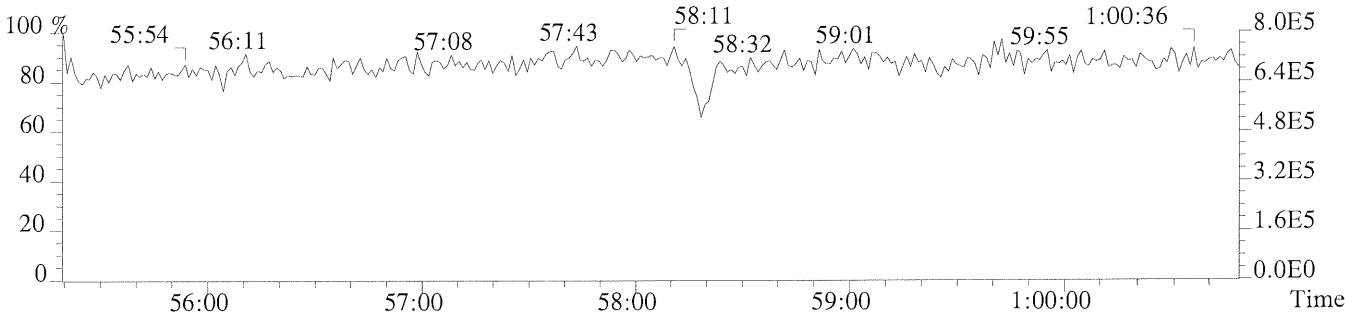
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,764.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,728.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4-OA2-PCBs

Run #15 Filename U142069 Samp: 1 Inj: 1 Acquired: 8-NOV-11 13:54:33
Processed: 16-NOV-11 15:26:35 Sample ID: E1101017-009

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	y	1.071
2	1	PCB-2	NotFnd	*	*	*	n	n	0.917
3	1	PCB-3	15:40	5.276e+02	2.758e+02	1.91	n	y	1.036
4	1	PCB-4	NotFnd	*	*	*	n	n	1.114
5	1	PCB-10	NotFnd	*	*	*	n	n	1.743
6	2	PCB-9	NotFnd	*	*	*	n	y	1.045
7	2	PCB-7	NotFnd	*	*	*	n	y	1.156
8	2	PCB-6	NotFnd	*	*	*	n	y	1.106
9	2	PCB-5	NotFnd	*	*	*	n	y	1.053
10	2	PCB-8	NotFnd	*	*	*	n	y	1.154
11	2	PCB-14	NotFnd	*	*	*	n	y	1.149
12	2	PCB-11	NotFnd	*	*	*	n	y	0.995
13	2	PCB-12/13	22:04	1.174e+03	9.338e+02	1.26	n	y	1.077
14	2	PCB-15	22:21	1.047e+03	6.597e+02	1.59	y	y	0.977
15	2	PCB-19	NotFnd	*	*	*	n	y	1.001
16	2	PCB-18/30	NotFnd	*	*	*	n	y	1.281
17	2	PCB-17	NotFnd	*	*	*	n	y	1.115
18	2	PCB-27	NotFnd	*	*	*	n	y	1.470
19	2	PCB-24	22:06	5.665e+02	3.828e+02	1.48	n	y	1.512
20	2	PCB-16	NotFnd	*	*	*	n	y	0.993
21	2	PCB-32	22:44	5.714e+02	5.498e+02	1.04	y	y	1.572
22	3	PCB-34	NotFnd	*	*	*	n	y	1.190
23	3	PCB-23	NotFnd	*	*	*	n	y	1.300
24	3	PCB-26/29	24:24	7.719e+02	5.627e+02	1.37	n	y	1.267
25	3	PCB-25	NotFnd	*	*	*	n	y	1.333
26	3	PCB-31	24:57	2.521e+03	2.316e+03	1.09	y	y	1.259
27	3	PCB-20/28	25:15	2.211e+03	2.363e+03	0.94	y	y	1.302
28	3	PCB-21/33	25:29	1.165e+03	1.009e+03	1.15	y	y	1.237
29	3	PCB-22	25:54	1.093e+03	8.977e+02	1.22	n	y	1.223
30	3	PCB-36	NotFnd	*	*	*	n	y	1.210
31	3	PCB-39	NotFnd	*	*	*	n	y	1.351
32	3	PCB-38	NotFnd	*	*	*	n	y	1.126
33	3	PCB-35	NotFnd	*	*	*	n	y	1.083
34	3	PCB-37	NotFnd	*	*	*	n	y	1.089
35	2	PCB-54	NotFnd	*	*	*	n	n	1.002
36	3	PCB-50/53	24:40	2.040e+02	2.550e+02	0.80	y	n	1.250
37	3	PCB-45/51	25:21	2.597e+02	3.259e+02	0.80	y	y	1.215
38	3	PCB-46	25:40	6.280e+01	8.296e+01	0.76	y	y	1.039
39	3	PCB-52	27:11	1.387e+03	1.902e+03	0.73	y	y	1.217
40	3	PCB-43/73	NotFnd	*	*	*	n	n	1.489
41	3	PCB-49/69	27:41	6.000e+02	7.746e+02	0.77	y	y	1.402
42	3	PCB-48	28:02	2.877e+02	3.485e+02	0.83	y	y	1.312
43	3	PCB-44/47/65	28:11	8.261e+02	9.886e+02	0.84	y	y	1.378
44	3	PCB-59/62/75	NotFnd	*	*	*	n	n	1.606
45	3	PCB-42	28:45	9.115e+01	6.712e+01	1.36	n	y	1.138
46	3	PCB-40/41/71	29:15	2.628e+02	2.794e+02	0.94	n	y	1.231
47	3	PCB-64	29:29	2.561e+02	2.860e+02	0.90	n	y	1.626
48	3	PCB-72	NotFnd	*	*	*	n	n	1.584
49	3	PCB-68	NotFnd	*	*	*	n	y	1.742
50	3	PCB-57	NotFnd	*	*	*	n	n	1.496

51	3	PCB-58	NotFnd	*	*	*	n	y	1.609
52	3	PCB-67	NotFnd	*	*	*	n	y	1.638
53	3	PCB-63	NotFnd	*	*	*	n	n	1.539
54	3	PCB-61/70/74/76	32:01	1.211e+03	1.389e+03	0.87	y	n	1.581
55	3	PCB-66	32:21	3.153e+02	2.701e+02	1.17	n	y	1.476
56	3	PCB-55	NotFnd	*	*	*	n	n	1.512
57	4	PCB-56	33:01	1.780e+02	2.721e+02	0.65	n	n	1.127
58	4	PCB-60	33:10	1.008e+02	1.286e+02	0.78	y	n	1.132
59	4	PCB-80	NotFnd	*	*	*	n	n	1.212
60	4	PCB-79	NotFnd	*	*	*	n	n	1.147
61	4	PCB-78	NotFnd	*	*	*	n	n	1.036
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	NotFnd	*	*	*	n	n	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	NotFnd	*	*	*	n	n	1.469
66	3	PCB-103	NotFnd	*	*	*	n	n	1.219
67	3	PCB-94	NotFnd	*	*	*	n	n	1.099
68	3	PCB-95	31:07	1.027e+03	6.593e+02	1.56	y	n	1.165
69	3	PCB-93/100	NotFnd	*	*	*	n	y	1.175
70	3	PCB-98/102	NotFnd	*	*	*	n	y	1.160
71	3	PCB-88/91	32:01	1.622e+02	1.057e+02	1.54	y	y	1.130
72	3	PCB-84	32:12	2.708e+02	1.615e+02	1.68	y	y	0.979
73	3	PCB-89	NotFnd	*	*	*	n	n	1.039
74	4	PCB-121	NotFnd	*	*	*	n	n	1.536
75	4	PCB-92	33:29	1.601e+02	1.097e+02	1.46	y	n	1.047
76	4	PCB-90/101/113	34:05	1.582e+03	9.774e+02	1.62	y	n	1.202
77	4	PCB-83/99	34:39	6.167e+02	3.884e+02	1.59	y	n	1.100
78	4	PCB-112	NotFnd	*	*	*	n	n	1.427
79	4	PCB-86/87/97/109/119/125	35:13	1.152e+03	7.232e+02	1.59	y	y	1.241
80	4	PCB-117	NotFnd	*	*	*	n	n	1.461
81	4	PCB-85/116	35:50	3.930e+02	2.029e+02	1.94	n	y	1.249
82	4	PCB-110/115	35:59	1.792e+03	1.189e+03	1.51	y	y	1.488
83	4	PCB-82	36:16	1.214e+02	7.015e+01	1.73	y	n	0.955
84	4	PCB-111	NotFnd	*	*	*	n	n	1.519
85	4	PCB-120	NotFnd	*	*	*	n	n	1.397
86	5	PCB-108/124	38:13	7.686e+01	6.260e+01	1.23	n	y	0.953
87	5	PCB-107	38:27	1.426e+02	8.569e+01	1.66	y	y	0.985
88	5	PCB-123	NotFnd	*	*	*	n	n	1.018
89	5	PCB-106	NotFnd	*	*	*	n	n	0.927
90	5	PCB-118	38:53	1.895e+03	1.234e+03	1.54	y	n	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	0.862
92	5	PCB-114	NotFnd	*	*	*	n	n	0.991
93	5	PCB-105	40:02	6.201e+02	3.810e+02	1.63	y	y	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	0.857
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.887
98	4	PCB-150	NotFnd	*	*	*	n	n	2.019
99	4	PCB-136	34:31	2.179e+02	1.694e+02	1.29	y	n	1.815
100	4	PCB-145	NotFnd	*	*	*	n	n	1.971
101	4	PCB-148	NotFnd	*	*	*	n	n	1.429
102	4	PCB-135/151	36:52	3.224e+02	2.742e+02	1.18	y	n	1.439
103	4	PCB-154	NotFnd	*	*	*	n	n	1.637
104	4	PCB-144	NotFnd	*	*	*	n	n	1.431
105	5	PCB-147/149	37:47	1.099e+03	9.055e+02	1.21	y	n	1.453
106	5	PCB-134	37:59	5.930e+01	6.174e+01	0.96	n	y	1.118
107	5	PCB-143	NotFnd	*	*	*	n	n	1.332

108	5	PCB-139/140	NotFnd	*	*	*	n	y	1.434
109	5	PCB-131	NotFnd	*	*	*	n	n	1.228
110	5	PCB-142	NotFnd	*	*	*	n	n	1.176
111	5	PCB-132	38:59	5.375e+02	3.863e+02	1.39	y	n	1.283
112	5	PCB-133	NotFnd	*	*	*	n	n	1.200
113	5	PCB-165	NotFnd	*	*	*	n	n	1.667
114	5	PCB-146	40:06	1.462e+02	1.148e+02	1.27	y	y	1.457
115	5	PCB-161	NotFnd	*	*	*	n	n	1.797
116	5	PCB-153/168	40:43	1.183e+03	9.483e+02	1.25	y	y	1.696
117	5	PCB-141	40:55	2.432e+02	1.791e+02	1.36	y	y	1.367
118	5	PCB-130	41:19	6.704e+01	4.291e+01	1.56	n	y	1.085
119	5	PCB-137	41:34	9.209e+01	6.519e+01	1.41	y	y	1.264
120	5	PCB-164	41:39	5.112e+01	6.832e+01	0.75	n	y	1.658
121	5	PCB-129/138/163	41:57	1.310e+03	1.103e+03	1.19	y	n	1.354
122	5	PCB-160	NotFnd	*	*	*	n	n	1.613
123	5	PCB-158	42:21	1.556e+02	1.325e+02	1.17	y	y	1.734
124	5	PCB-128/166	43:11	1.884e+02	1.759e+02	1.07	y	n	1.380
125	6	PCB-159	NotFnd	*	*	*	n	n	0.865
126	6	PCB-162	NotFnd	*	*	*	n	y	0.987
127	6	PCB-167	44:55	4.392e+01	3.052e+01	1.44	n	n	1.008
128	6	PCB-156/157	46:03	1.117e+02	8.386e+01	1.33	y	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	39:43	1.126e+02	1.178e+02	0.96	y	n	1.356
132	5	PCB-184	NotFnd	*	*	*	n	n	1.595
133	5	PCB-176	40:36	2.942e+01	2.859e+01	1.03	y	y	1.359
134	5	PCB-186	NotFnd	*	*	*	n	n	1.429
135	5	PCB-178	42:23	1.951e+01	2.080e+01	0.94	y	y	0.960
136	5	PCB-175	NotFnd	*	*	*	n	n	1.003
137	5	PCB-187	43:17	1.835e+02	1.667e+02	1.10	y	n	1.145
138	5	PCB-182	NotFnd	*	*	*	n	n	1.039
139	6	PCB-183	43:55	8.401e+01	1.092e+02	0.77	n	n	0.669
140	6	PCB-185	NotFnd	*	*	*	n	n	0.668
141	6	PCB-174	44:08	1.136e+02	1.042e+02	1.09	y	n	0.633
142	6	PCB-177	44:34	5.004e+01	5.700e+01	0.88	n	n	0.605
143	6	PCB-181	NotFnd	*	*	*	n	n	0.666
144	6	PCB-171/173	45:11	2.816e+01	2.423e+01	1.16	y	n	0.575
145	6	PCB-172	NotFnd	*	*	*	n	n	0.547
146	6	PCB-192	NotFnd	*	*	*	n	n	0.755
147	6	PCB-180/193	47:26	1.677e+02	1.651e+02	1.02	y	n	0.689
148	6	PCB-191	NotFnd	*	*	*	n	n	0.745
149	6	PCB-170	48:41	4.572e+01	5.790e+01	0.79	n	n	0.514
150	6	PCB-190	NotFnd	*	*	*	n	y	0.703
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	NotFnd	*	*	*	n	n	0.863
153	6	PCB-201	NotFnd	*	*	*	n	n	1.206
154	6	PCB-204	NotFnd	*	*	*	n	n	1.172
155	6	PCB-197	NotFnd	*	*	*	n	n	1.259
156	6	PCB-200	NotFnd	*	*	*	n	y	1.212
157	6	PCB-198/199	49:25	2.922e+01	4.816e+01	0.61	n	n	0.838
158	6	PCB-196	NotFnd	*	*	*	n	n	0.819
159	6	PCB-203	NotFnd	*	*	*	n	n	0.975
160	6	PCB-195	NotFnd	*	*	*	n	n	0.743
161	6	PCB-194	NotFnd	*	*	*	n	n	0.757
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	NotFnd	*	*	*	n	n	0.880
164	6	PCB-207	NotFnd	*	*	*	n	n	1.093

Filename U142069 Acquired: 8-NOV-11 13:54:33

165	7	PCB-206	NotFnd	*	*	*	n	n	0.931
166	7	PCB-209	NotFnd	*	*	*	n	n	0.894
167	1	PCB-1L	13:25	2.334e+04	7.544e+03	3.09	y	n	1.220
168	1	PCB-3L	15:42	2.886e+04	9.227e+03	3.13	y	y	1.173
169	1	PCB-4L	16:00	1.129e+04	7.116e+03	1.59	y	y	0.803
170	2	PCB-15L	22:20	1.414e+04	8.652e+03	1.63	y	n	0.962
171	2	PCB-19L	19:21	5.400e+03	5.072e+03	1.06	y	n	0.636
172	3	PCB-37L	29:24	5.552e+03	5.004e+03	1.11	y	n	1.144
173	2	PCB-54L	22:33	3.834e+03	4.731e+03	0.81	y	n	1.140
174	4	PCB-81L	36:05	5.198e+03	6.497e+03	0.80	y	n	0.947
175	4	PCB-77L	36:37	5.383e+03	6.785e+03	0.79	y	n	0.949
176	3	PCB-104L	28:07	4.625e+03	2.992e+03	1.55	y	n	1.397
177	5	PCB-123L	38:33	8.427e+03	5.142e+03	1.64	y	n	1.029
178	5	PCB-118L	38:52	9.010e+03	5.434e+03	1.66	y	n	1.077
179	5	PCB-114L	39:23	9.715e+03	5.994e+03	1.62	y	n	1.075
180	5	PCB-105L	40:00	7.313e+03	4.681e+03	1.56	y	n	1.013
181	5	PCB-126L	43:05	8.995e+03	5.688e+03	1.58	y	n	0.898
182	4	PCB-155L	33:49	4.986e+03	4.056e+03	1.23	y	y	1.637
183	6	PCB-167L	44:54	7.887e+03	6.097e+03	1.29	y	y	0.882
184	6	PCB-156/157L	46:02	1.452e+04	1.150e+04	1.26	y	n	0.818
185	6	PCB-169L	49:16	6.365e+03	5.084e+03	1.25	y	n	0.716
186	5	PCB-188L	39:21	6.073e+03	5.694e+03	1.07	y	n	2.358
187	6	PCB-189L	51:48	5.709e+03	5.509e+03	1.04	y	n	1.307
188	6	PCB-202L	44:40	5.562e+03	6.172e+03	0.90	y	n	1.804
189	6	PCB-205L	54:20	4.073e+03	4.496e+03	0.91	y	n	1.363
190	6	PCB-208L	51:17	3.606e+03	4.604e+03	0.78	y	n	1.337
191	7	PCB-206L	56:04	3.345e+03	4.351e+03	0.77	y	n	0.998
192	7	PCB-209L	57:39	4.426e+03	3.621e+03	1.22	y	n	1.563
193	3	PCB-28L	25:14	7.120e+03	6.274e+03	1.13	y	n	1.387
194	4	PCB-111L	36:40	6.379e+03	4.003e+03	1.59	y	n	1.238
195	5	PCB-178L	42:23	4.142e+03	3.933e+03	1.05	y	n	0.953
196	2	PCB-9L	18:15	1.544e+04	9.522e+03	1.62	y	n	-
197	3	PCB-52L	27:11	4.780e+03	5.793e+03	0.83	y	n	-
198	4	PCB-101L	34:03	6.602e+03	4.109e+03	1.61	y	n	-
199	5	PCB-138L	41:55	8.333e+03	6.517e+03	1.28	y	n	-
200	6	PCB-194L	53:52	4.259e+03	4.749e+03	1.90	y	n	-

-- Sample Calculation--

EDL

PCB-209 = (9.32e+02 + 9.520e+02) x 10000 pg x 1 X 2.5 / (4.42~~6e+03~~ + 3.621e+03) x (0.5 mL) x (1L / 1000 mL) x 0.8938 = 78.4 pg

7.400e+05 + 6.040e+05

11/19/11

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sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4CS-OA2-PCBs

Run #6 Filename U142069#1 Samp: 1 Inj: 1 Acquired: 8-NOV-11 13:54:33
Processed: 16-NOV-11 17:52:52 Sample ID: E1101017-009

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:55	4.687e+03	2.891e+03	1.62	yes	1.101	yes
2	70L	PCB-70L	31:59	4.686e+03	5.946e+03	0.79	yes	1.584	no
3	15L	PCB-15L	22:20	1.414e+04	8.652e+03	1.63	yes		no
4	81L	PCB-81L	36:05	5.198e+03	6.497e+03	0.80	yes		no

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	3.19e+05	2.00e+03	1.6e+02	1.94e+05	1.52e+03	1.3e+02
2	PCB-70L	5.40e+05	3.63e+03	1.5e+02	6.60e+05	2.24e+03	3.0e+02
3	PCB-15L	3.92e+06	2.00e+03	2.0e+03	2.42e+06	1.52e+03	1.6e+03
4	PCB-81L	7.33e+05	3.36e+03	2.2e+02	9.24e+05	2.30e+03	4.0e+02

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(4.69e+03 + 2.89e+03) \times 10000\ \text{pg} \quad 1}{(1.41e+04 + 8.65e+03) \times 1.0\ \text{L} \quad \times 1.101} = 3020\ \text{pg}$$ ~~pg/L~~

11/18/11

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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4-OA2-PCBs

Run #15 Filename U142069#1 Samp: 1 Inj: 1 Acquired: 8-NOV-11 13:54:33

Processed: 16-NOV-11 15:26:35 LAB. ID: E1101017-009

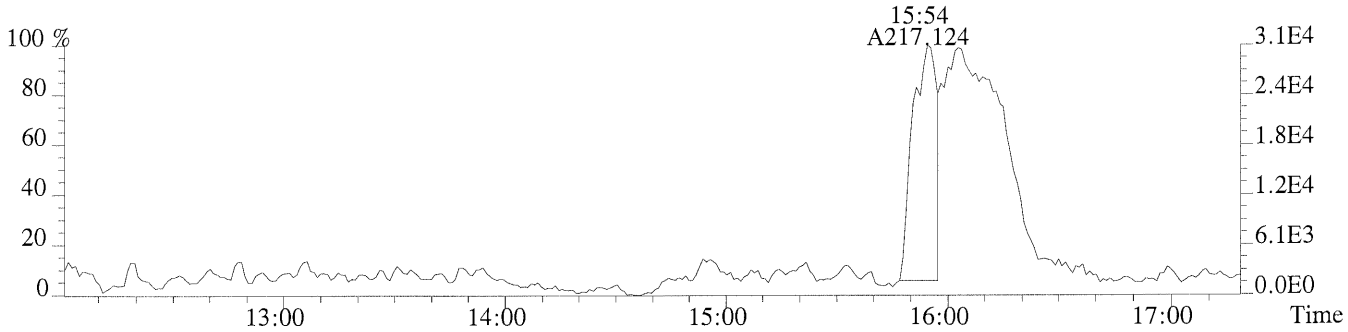
	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	1.90e+03	*	*	2.64e+03	*
2	PCB-2	*	1.90e+03	*	*	2.64e+03	*
3	PCB-3	2.68e+04	1.90e+03	1.4e+01	1.21e+04	2.64e+03	4.6e+00
4	PCB-4	*	2.84e+03	*	*	6.21e+04	*
5	PCB-10	*	2.84e+03	*	*	6.21e+04	*
6	PCB-9	*	2.54e+03	*	*	3.28e+04	*
7	PCB-7	*	2.54e+03	*	*	3.28e+04	*
8	PCB-6	*	2.54e+03	*	*	3.28e+04	*
9	PCB-5	*	2.54e+03	*	*	3.28e+04	*
10	PCB-8	*	2.54e+03	*	*	3.28e+04	*
11	PCB-14	*	2.54e+03	*	*	3.28e+04	*
12	PCB-11	*	2.54e+03	*	*	3.28e+04	*
13	PCB-12/13	3.57e+05	2.54e+03	1.4e+02	2.72e+05	3.28e+04	8.3e+00
14	PCB-15	2.87e+05	2.54e+03	1.1e+02	1.89e+05	3.28e+04	5.8e+00
15	PCB-19	*	1.18e+04	*	*	7.68e+03	*
16	PCB-18/30	*	1.18e+04	*	*	7.68e+03	*
17	PCB-17	*	1.18e+04	*	*	7.68e+03	*
18	PCB-27	*	1.18e+04	*	*	7.68e+03	*
19	PCB-24	1.53e+05	1.18e+04	1.3e+01	1.25e+05	7.68e+03	1.6e+01
20	PCB-16	*	1.18e+04	*	*	7.68e+03	*
21	PCB-32	1.33e+05	1.18e+04	1.1e+01	1.36e+05	7.68e+03	1.8e+01
22	PCB-34	*	1.77e+04	*	*	5.58e+03	*
23	PCB-23	*	1.77e+04	*	*	5.58e+03	*
24	PCB-26/29	7.39e+04	1.77e+04	4.2e+00	6.99e+04	5.58e+03	1.3e+01
25	PCB-25	*	1.77e+04	*	*	5.58e+03	*
26	PCB-31	2.47e+05	1.77e+04	1.4e+01	2.19e+05	5.58e+03	3.9e+01
27	PCB-20/28	2.09e+05	1.77e+04	1.2e+01	2.13e+05	5.58e+03	3.8e+01
28	PCB-21/33	1.38e+05	1.77e+04	7.8e+00	1.33e+05	5.58e+03	2.4e+01
29	PCB-22	9.22e+04	1.77e+04	5.2e+00	7.85e+04	5.58e+03	1.4e+01
30	PCB-36	*	1.77e+04	*	*	5.58e+03	*
31	PCB-39	*	1.77e+04	*	*	5.58e+03	*
32	PCB-38	*	1.77e+04	*	*	5.58e+03	*
33	PCB-35	*	1.77e+04	*	*	5.58e+03	*
34	PCB-37	*	1.77e+04	*	*	5.58e+03	*
35	PCB-54	*	2.54e+03	*	*	3.26e+03	*
36	PCB-50/53	2.31e+04	1.61e+03	1.4e+01	2.51e+04	7.80e+02	3.2e+01
37	PCB-45/51	2.36e+04	1.61e+03	1.5e+01	2.50e+04	7.80e+02	3.2e+01
38	PCB-46	7.47e+03	1.61e+03	4.6e+00	6.63e+03	7.80e+02	8.5e+00
39	PCB-52	1.39e+05	1.61e+03	8.7e+01	1.73e+05	7.80e+02	2.2e+02
40	PCB-43/73	*	1.61e+03	*	*	7.80e+02	*
41	PCB-49/69	5.20e+04	1.61e+03	3.2e+01	6.68e+04	7.80e+02	8.6e+01
42	PCB-48	3.07e+04	1.61e+03	1.9e+01	3.92e+04	7.80e+02	5.0e+01
43	PCB-44/47/65	8.38e+04	1.61e+03	5.2e+01	1.00e+05	7.80e+02	1.3e+02
44	PCB-59/62/75	*	1.61e+03	*	*	7.80e+02	*
45	PCB-42	1.54e+04	1.61e+03	9.6e+00	1.41e+04	7.80e+02	1.8e+01
46	PCB-40/41/71	2.65e+04	1.61e+03	1.7e+01	2.82e+04	7.80e+02	3.6e+01
47	PCB-64	3.34e+04	1.61e+03	2.1e+01	4.46e+04	7.80e+02	5.7e+01

48	PCB-72	*	1.61e+03	*	*	7.80e+02	*
49	PCB-68	*	1.61e+03	*	*	7.80e+02	*
50	PCB-57	*	1.61e+03	*	*	7.80e+02	*
51	PCB-58	*	1.61e+03	*	*	7.80e+02	*
52	PCB-67	*	1.61e+03	*	*	7.80e+02	*
53	PCB-63	*	1.61e+03	*	*	7.80e+02	*
54	PCB-61/70/74/76	1.09e+05	1.61e+03	6.8e+01	1.35e+05	7.80e+02	1.7e+02
55	PCB-66	4.01e+04	1.61e+03	2.5e+01	4.27e+04	7.80e+02	5.5e+01
56	PCB-55	*	1.61e+03	*	*	7.80e+02	*
57	PCB-56	2.32e+04	2.82e+03	8.2e+00	3.02e+04	2.04e+03	1.5e+01
58	PCB-60	1.31e+04	2.82e+03	4.6e+00	1.66e+04	2.04e+03	8.1e+00
59	PCB-80	*	2.82e+03	*	*	2.04e+03	*
60	PCB-79	*	2.82e+03	*	*	2.04e+03	*
61	PCB-78	*	2.82e+03	*	*	2.04e+03	*
62	PCB-81	*	2.82e+03	*	*	2.04e+03	*
63	PCB-77	*	2.82e+03	*	*	2.04e+03	*
64	PCB-104	*	7.68e+02	*	*	8.52e+02	*
65	PCB-96	*	7.68e+02	*	*	8.52e+02	*
66	PCB-103	*	7.68e+02	*	*	8.52e+02	*
67	PCB-94	*	7.68e+02	*	*	8.52e+02	*
68	PCB-95	1.08e+05	7.68e+02	1.4e+02	7.38e+04	8.52e+02	8.7e+01
69	PCB-93/100	*	7.68e+02	*	*	8.52e+02	*
70	PCB-98/102	*	7.68e+02	*	*	8.52e+02	*
71	PCB-88/91	1.86e+04	7.68e+02	2.4e+01	1.16e+04	8.52e+02	1.4e+01
72	PCB-84	3.27e+04	7.68e+02	4.3e+01	2.00e+04	8.52e+02	2.3e+01
73	PCB-89	*	7.68e+02	*	*	8.52e+02	*
74	PCB-121	*	2.20e+03	*	*	1.64e+03	*
75	PCB-92	2.13e+04	2.20e+03	9.7e+00	1.57e+04	1.64e+03	9.6e+00
76	PCB-90/101/113	1.93e+05	2.20e+03	8.8e+01	1.26e+05	1.64e+03	7.7e+01
77	PCB-83/99	7.12e+04	2.20e+03	3.2e+01	4.35e+04	1.64e+03	2.7e+01
78	PCB-112	*	2.20e+03	*	*	1.64e+03	*
79	CB-86/87/97/109/119/125	8.23e+04	2.20e+03	3.7e+01	5.36e+04	1.64e+03	3.3e+01
80	PCB-117	*	2.20e+03	*	*	1.64e+03	*
81	PCB-85/116	6.43e+04	2.20e+03	2.9e+01	3.63e+04	1.64e+03	2.2e+01
82	PCB-110/115	2.71e+05	2.20e+03	1.2e+02	1.80e+05	1.64e+03	1.1e+02
83	PCB-82	1.97e+04	2.20e+03	9.0e+00	1.23e+04	1.64e+03	7.5e+00
84	PCB-111	*	2.20e+03	*	*	1.64e+03	*
85	PCB-120	*	2.20e+03	*	*	1.64e+03	*
86	PCB-108/124	1.09e+04	9.84e+02	1.1e+01	1.08e+04	2.66e+03	4.0e+00
87	PCB-107	1.83e+04	9.84e+02	1.9e+01	1.31e+04	2.66e+03	4.9e+00
88	PCB-123	*	9.84e+02	*	*	2.66e+03	*
89	PCB-106	*	9.84e+02	*	*	2.66e+03	*
90	PCB-118	2.80e+05	9.84e+02	2.8e+02	1.89e+05	2.66e+03	7.1e+01
91	PCB-122	*	9.84e+02	*	*	2.66e+03	*
92	PCB-114	*	9.84e+02	*	*	2.66e+03	*
93	PCB-105	8.72e+04	9.84e+02	8.9e+01	5.91e+04	2.66e+03	2.2e+01
94	PCB-127	*	9.84e+02	*	*	2.66e+03	*
95	PCB-126	*	9.84e+02	*	*	2.66e+03	*
96	PCB-155	*	1.38e+03	*	*	7.16e+02	*
97	PCB-152	*	1.38e+03	*	*	7.16e+02	*
98	PCB-150	*	1.38e+03	*	*	7.16e+02	*
99	PCB-136	3.21e+04	1.38e+03	2.3e+01	2.49e+04	7.16e+02	3.5e+01
100	PCB-145	*	1.38e+03	*	*	7.16e+02	*
101	PCB-148	*	1.38e+03	*	*	7.16e+02	*
102	PCB-135/151	4.32e+04	1.38e+03	3.1e+01	3.45e+04	7.16e+02	4.8e+01
103	PCB-154	*	1.38e+03	*	*	7.16e+02	*
104	PCB-144	*	1.38e+03	*	*	7.16e+02	*

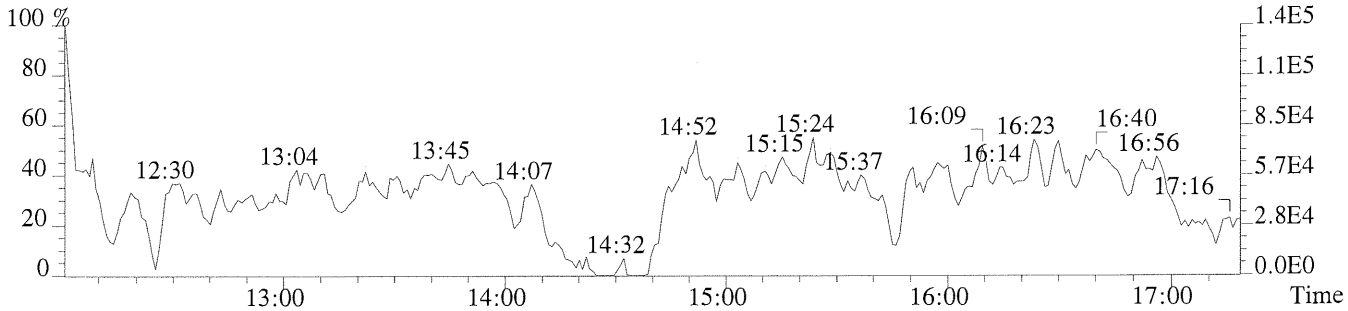
105	PCB-147/149	1.57e+05	1.40e+03	1.1e+02	1.33e+05	1.46e+03	9.1e+01
106	PCB-134	9.41e+03	1.40e+03	6.7e+00	9.94e+03	1.46e+03	6.8e+00
107	PCB-143	*	1.40e+03	*	*	1.46e+03	*
108	PCB-139/140	*	1.40e+03	*	*	1.46e+03	*
109	PCB-131	*	1.40e+03	*	*	1.46e+03	*
110	PCB-142	*	1.40e+03	*	*	1.46e+03	*
111	PCB-132	7.83e+04	1.40e+03	5.6e+01	5.86e+04	1.46e+03	4.0e+01
112	PCB-133	*	1.40e+03	*	*	1.46e+03	*
113	PCB-165	*	1.40e+03	*	*	1.46e+03	*
114	PCB-146	2.23e+04	1.40e+03	1.6e+01	1.97e+04	1.46e+03	1.3e+01
115	PCB-161	*	1.40e+03	*	*	1.46e+03	*
116	PCB-153/168	1.75e+05	1.40e+03	1.2e+02	1.37e+05	1.46e+03	9.3e+01
117	PCB-141	3.53e+04	1.40e+03	2.5e+01	2.81e+04	1.46e+03	1.9e+01
118	PCB-130	1.06e+04	1.40e+03	7.6e+00	7.41e+03	1.46e+03	5.1e+00
119	PCB-137	1.30e+04	1.40e+03	9.2e+00	1.07e+04	1.46e+03	7.3e+00
120	PCB-164	1.09e+04	1.40e+03	7.7e+00	1.34e+04	1.46e+03	9.2e+00
121	PCB-129/138/163	1.84e+05	1.40e+03	1.3e+02	1.49e+05	1.46e+03	1.0e+02
122	PCB-160	*	1.40e+03	*	*	1.46e+03	*
123	PCB-158	2.45e+04	1.40e+03	1.7e+01	1.90e+04	1.46e+03	1.3e+01
124	PCB-128/166	3.03e+04	1.40e+03	2.2e+01	2.83e+04	1.46e+03	1.9e+01
125	PCB-159	*	9.80e+02	*	*	8.44e+02	*
126	PCB-162	*	9.80e+02	*	*	8.44e+02	*
127	PCB-167	8.10e+03	9.80e+02	8.3e+00	6.10e+03	8.44e+02	7.2e+00
128	PCB-156/157	2.11e+04	9.80e+02	2.2e+01	1.51e+04	8.44e+02	1.8e+01
129	PCB-169	*	9.80e+02	*	*	8.44e+02	*
130	PCB-188	*	1.02e+03	*	*	8.36e+02	*
131	PCB-179	1.77e+04	1.02e+03	1.7e+01	1.68e+04	8.36e+02	2.0e+01
132	PCB-184	*	1.02e+03	*	*	8.36e+02	*
133	PCB-176	6.38e+03	1.02e+03	6.2e+00	5.01e+03	8.36e+02	6.0e+00
134	PCB-186	*	1.02e+03	*	*	8.36e+02	*
135	PCB-178	4.44e+03	1.02e+03	4.3e+00	3.10e+03	8.36e+02	3.7e+00
136	PCB-175	*	1.02e+03	*	*	8.36e+02	*
137	PCB-187	2.80e+04	1.02e+03	2.7e+01	2.14e+04	8.36e+02	2.6e+01
138	PCB-182	*	1.02e+03	*	*	8.36e+02	*
139	PCB-183	1.57e+04	1.09e+03	1.4e+01	1.53e+04	1.52e+03	1.0e+01
140	PCB-185	*	1.09e+03	*	*	1.52e+03	*
141	PCB-174	2.05e+04	1.09e+03	1.9e+01	2.04e+04	1.52e+03	1.3e+01
142	PCB-177	9.55e+03	1.09e+03	8.8e+00	9.97e+03	1.52e+03	6.6e+00
143	PCB-181	*	1.09e+03	*	*	1.52e+03	*
144	PCB-171/173	6.26e+03	1.09e+03	5.7e+00	6.40e+03	1.52e+03	4.2e+00
145	PCB-172	*	1.09e+03	*	*	1.52e+03	*
146	PCB-192	*	1.09e+03	*	*	1.52e+03	*
147	PCB-180/193	3.28e+04	1.09e+03	3.0e+01	3.10e+04	1.52e+03	2.0e+01
148	PCB-191	*	1.09e+03	*	*	1.52e+03	*
149	PCB-170	9.55e+03	1.09e+03	8.8e+00	1.10e+04	1.52e+03	7.2e+00
150	PCB-190	*	1.09e+03	*	*	1.52e+03	*
151	PCB-189	*	1.09e+03	*	*	1.52e+03	*
152	PCB-202	*	1.33e+03	*	*	1.11e+03	*
153	PCB-201	*	1.33e+03	*	*	1.11e+03	*
154	PCB-204	*	1.33e+03	*	*	1.11e+03	*
155	PCB-197	*	1.33e+03	*	*	1.11e+03	*
156	PCB-200	*	1.33e+03	*	*	1.11e+03	*
157	PCB-198/199	6.45e+03	1.33e+03	4.8e+00	8.82e+03	1.11e+03	7.9e+00
158	PCB-196	*	1.33e+03	*	*	1.11e+03	*
159	PCB-203	*	1.33e+03	*	*	1.11e+03	*
160	PCB-195	*	1.33e+03	*	*	1.11e+03	*
161	PCB-194	*	1.33e+03	*	*	1.11e+03	*
162	PCB-205	*	1.33e+03	*	*	1.11e+03	*

163	PCB-208	*	9.96e+02	*	*	1.10e+03	*
164	PCB-207	*	9.96e+02	*	*	1.10e+03	*
165	PCB-206	*	9.84e+02	*	*	9.92e+02	*
166	PCB-209	*	9.32e+02	*	*	9.52e+02	*
167	PCB-1L	1.90e+06	1.49e+03	1.3e+03	6.27e+05	8.27e+03	7.6e+01
168	PCB-3L	1.20e+06	1.49e+03	8.1e+02	3.95e+05	8.27e+03	4.8e+01
169	PCB-4L	4.07e+05	1.73e+03	2.4e+02	2.58e+05	1.31e+03	2.0e+02
170	PCB-15L	3.92e+06	2.00e+03	2.0e+03	2.42e+06	1.52e+03	1.6e+03
171	PCB-19L	4.31e+05	1.67e+04	2.6e+01	3.99e+05	3.28e+04	1.2e+01
172	PCB-37L	4.95e+05	8.56e+03	5.8e+01	4.48e+05	2.39e+04	1.9e+01
173	PCB-54L	9.48e+05	2.34e+03	4.0e+02	1.18e+06	2.37e+03	5.0e+02
174	PCB-81L	7.33e+05	3.36e+03	2.2e+02	9.24e+05	2.30e+03	4.0e+02
175	PCB-77L	7.43e+05	3.36e+03	2.2e+02	9.35e+05	2.30e+03	4.1e+02
176	PCB-104L	4.41e+05	4.42e+03	1.0e+02	2.86e+05	1.65e+03	1.7e+02
177	PCB-123L	1.25e+06	4.54e+03	2.8e+02	7.71e+05	4.63e+03	1.7e+02
178	PCB-118L	1.40e+06	4.54e+03	3.1e+02	8.49e+05	4.63e+03	1.8e+02
179	PCB-114L	1.47e+06	4.54e+03	3.2e+02	9.02e+05	4.63e+03	1.9e+02
180	PCB-105L	1.08e+06	4.54e+03	2.4e+02	6.99e+05	4.63e+03	1.5e+02
181	PCB-126L	1.27e+06	4.54e+03	2.8e+02	8.24e+05	4.63e+03	1.8e+02
182	PCB-155L	6.18e+05	7.34e+03	8.4e+01	5.07e+05	1.49e+04	3.4e+01
183	PCB-167L	1.40e+06	1.73e+03	8.1e+02	1.10e+06	2.46e+03	4.5e+02
184	PCB-156/157L	2.17e+06	1.73e+03	1.3e+03	1.71e+06	2.46e+03	7.0e+02
185	PCB-169L	1.13e+06	1.73e+03	6.5e+02	9.18e+05	2.46e+03	3.7e+02
186	PCB-188L	9.13e+05	9.92e+02	9.2e+02	8.50e+05	9.12e+02	9.3e+02
187	PCB-189L	1.07e+06	1.07e+03	1.0e+03	1.02e+06	9.60e+02	1.1e+03
188	PCB-202L	1.02e+06	8.48e+02	1.2e+03	1.13e+06	9.84e+02	1.1e+03
189	PCB-205L	7.78e+05	8.48e+02	9.2e+02	8.65e+05	9.84e+02	8.8e+02
190	PCB-208L	6.78e+05	1.18e+03	5.7e+02	8.73e+05	1.06e+03	8.2e+02
191	PCB-206L	5.57e+05	1.02e+03	5.5e+02	7.43e+05	7.88e+02	9.4e+02
192	PCB-209L	7.40e+05	9.44e+02	7.8e+02	6.04e+05	1.05e+03	5.7e+02
193	PCB-28L	6.84e+05	8.56e+03	8.0e+01	6.05e+05	2.39e+04	2.5e+01
194	PCB-111L	9.01e+05	3.96e+03	2.3e+02	5.52e+05	3.20e+03	1.7e+02
195	PCB-178L	6.17e+05	9.92e+02	6.2e+02	5.77e+05	9.12e+02	6.3e+02
196	PCB-9L	4.34e+06	2.00e+03	2.2e+03	2.67e+06	1.52e+03	1.8e+03
197	PCB-52L	4.50e+05	3.63e+03	1.2e+02	5.36e+05	2.24e+03	2.4e+02
198	PCB-101L	7.87e+05	3.96e+03	2.0e+02	5.03e+05	3.20e+03	1.6e+02
199	PCB-138L	1.18e+06	2.31e+03	5.1e+02	9.38e+05	5.11e+03	1.8e+02
200	PCB-194L	7.99e+05	8.48e+02	9.4e+02	8.80e+05	9.84e+02	8.9e+02

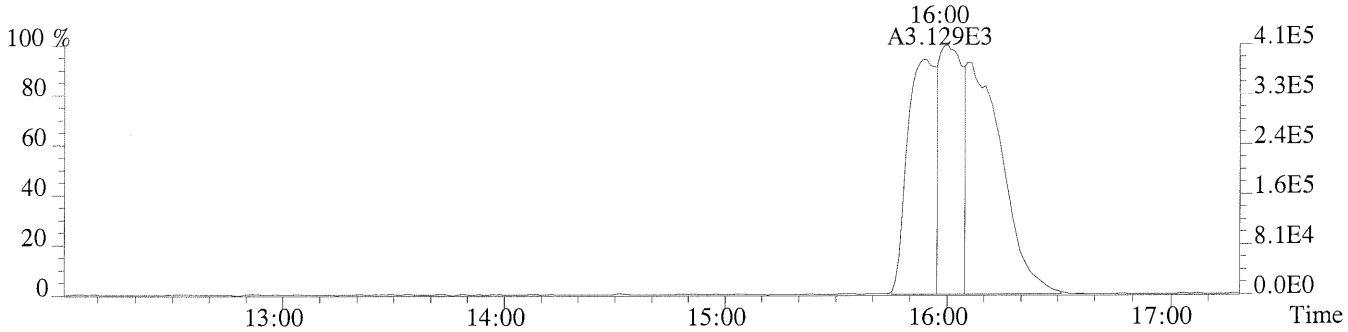
File:U142069 #1-341 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2844.0,1.00%,F,T)



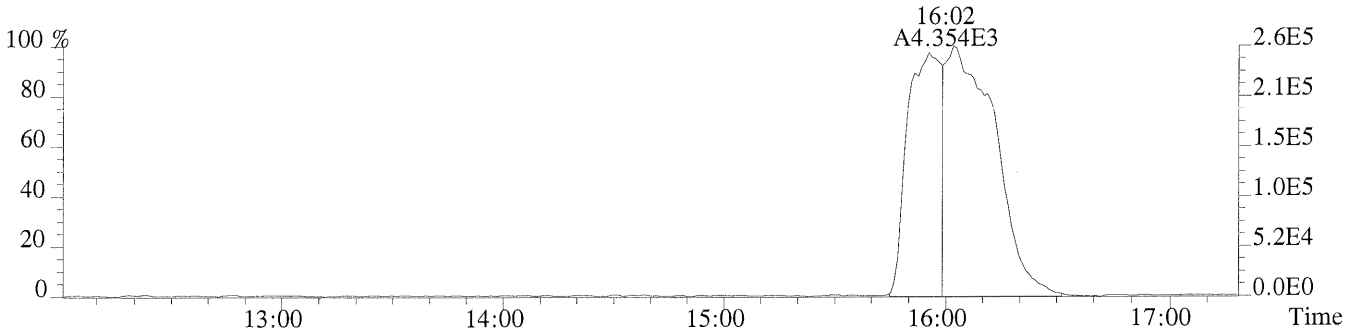
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,62088.0,1.00%,F,T)



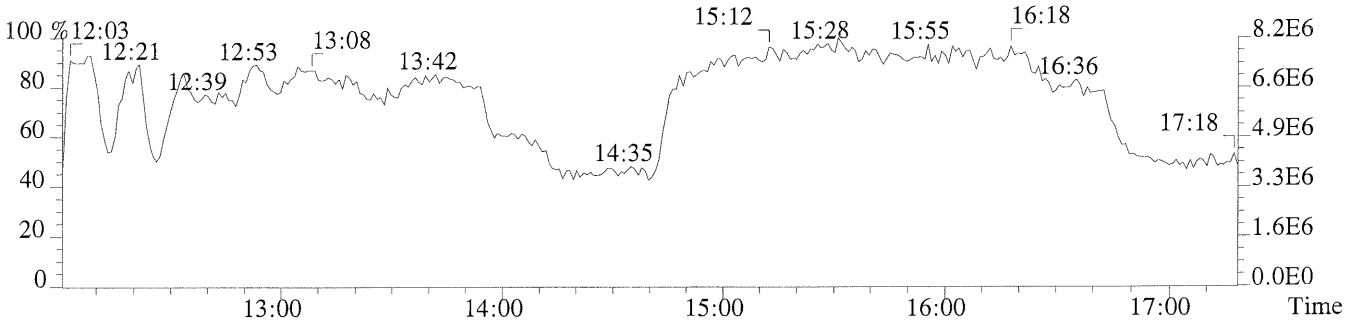
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1728.0,1.00%,F,T)



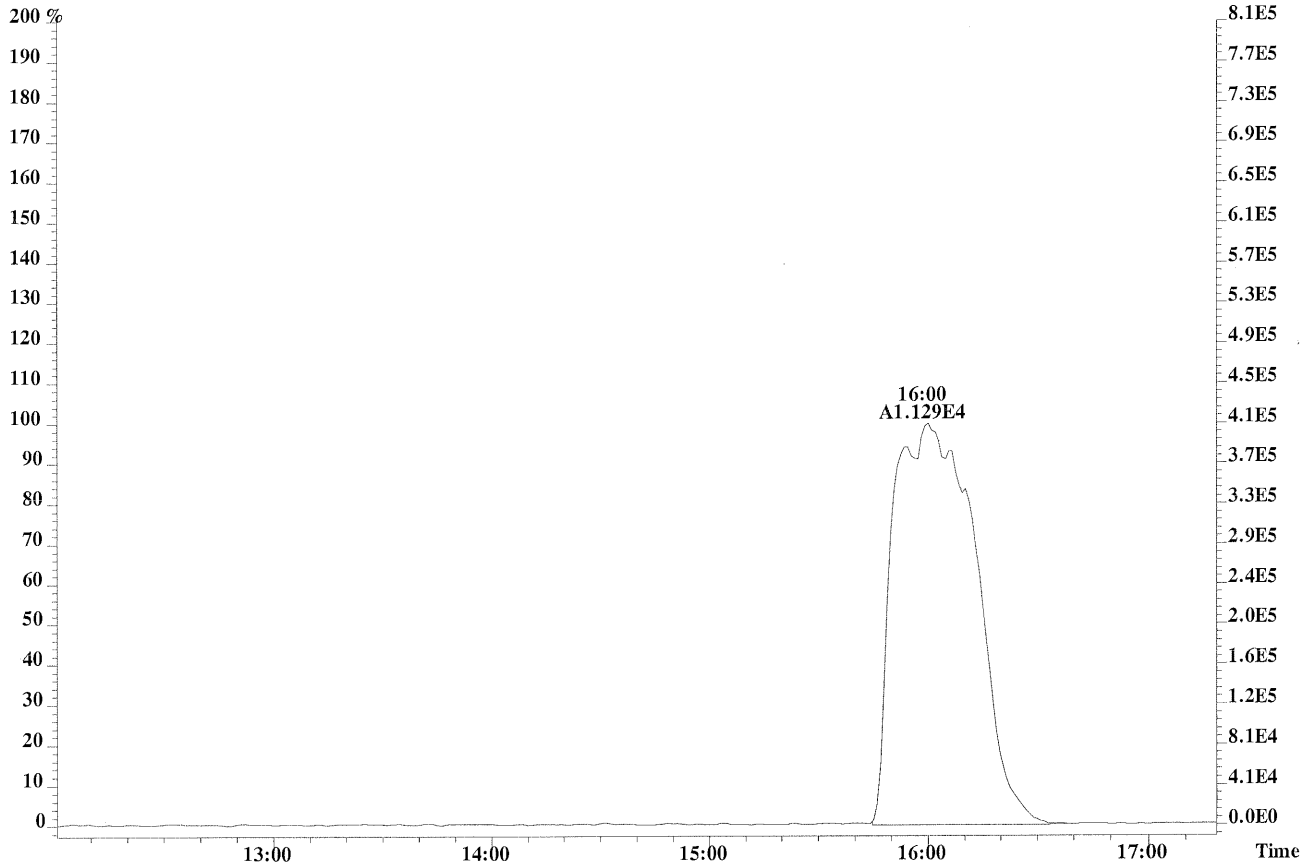
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1308.0,1.00%,F,T)



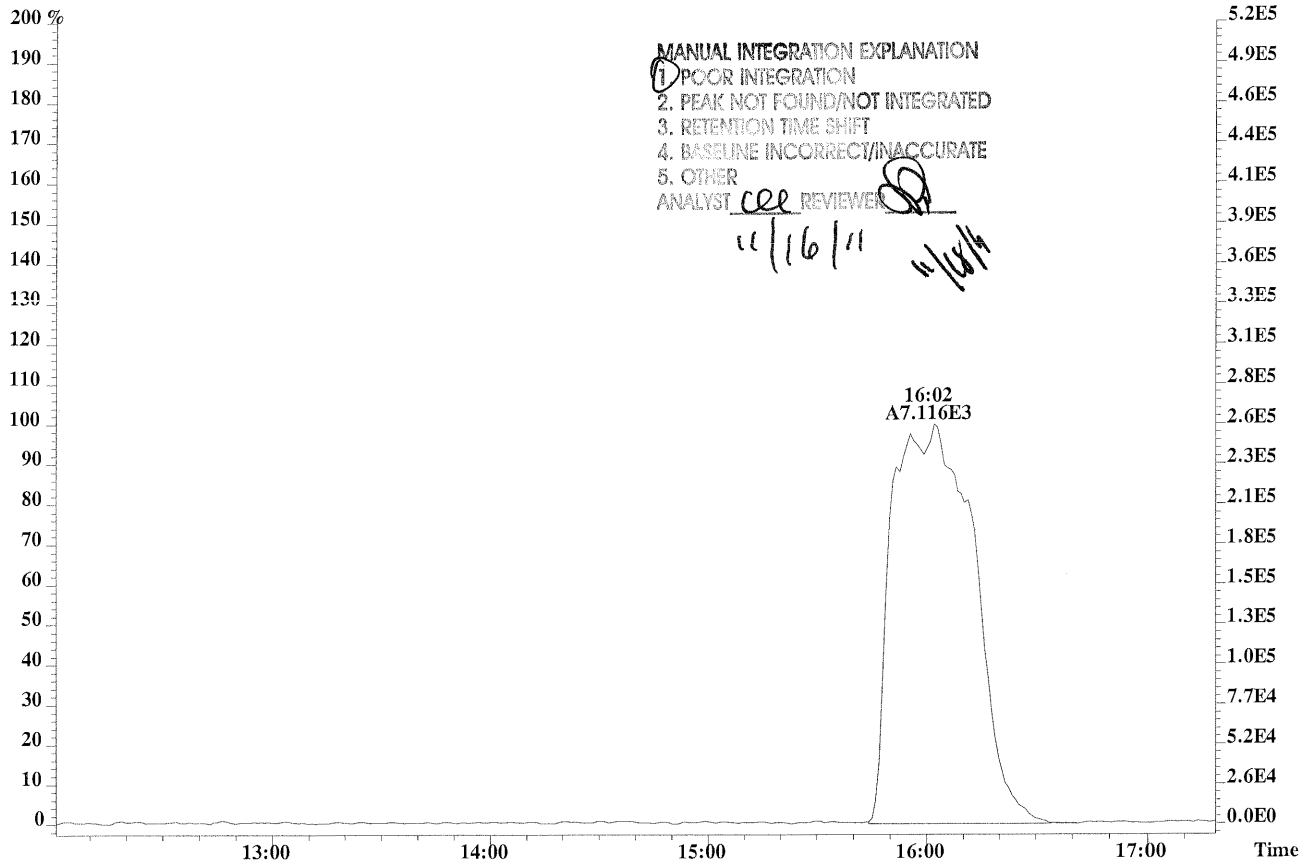
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142069 #1-341 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1728.0,1.00%,F,T)

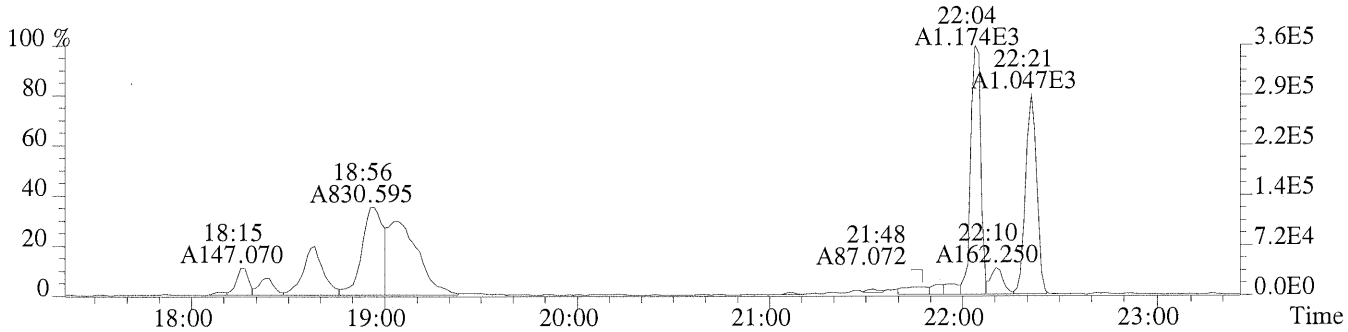


236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1308.0,1.00%,F,T)

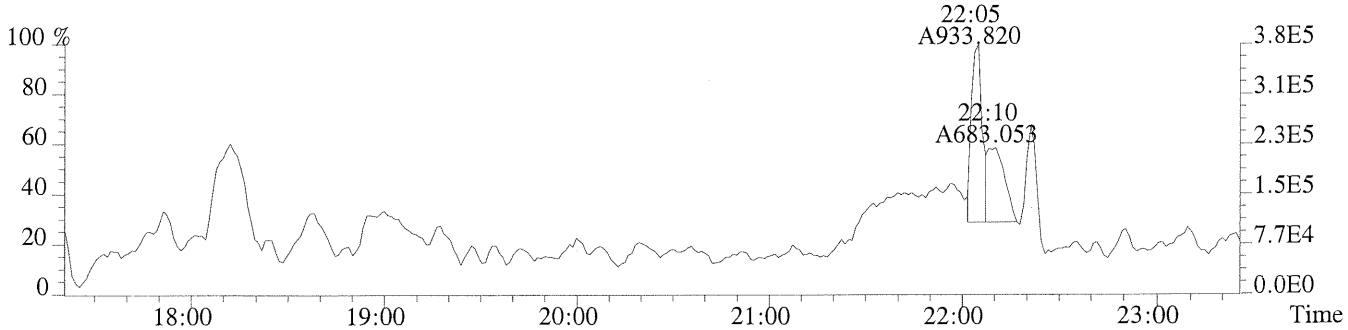


File:U142069 #1-336 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs

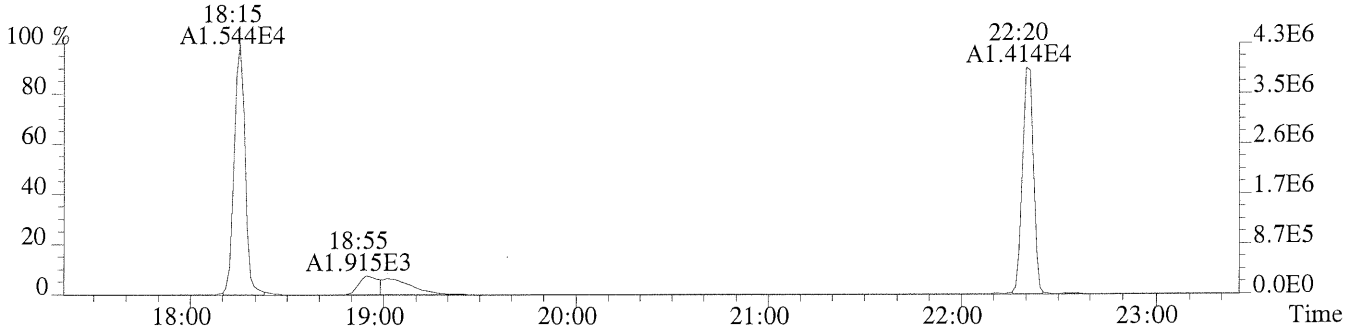
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2008.0,1.00%,F,T)



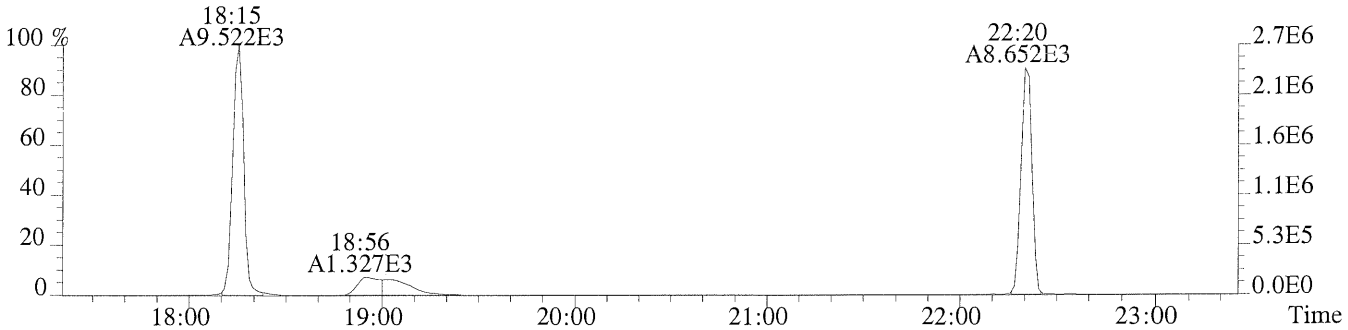
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,104804.0,1.00%,F,T)



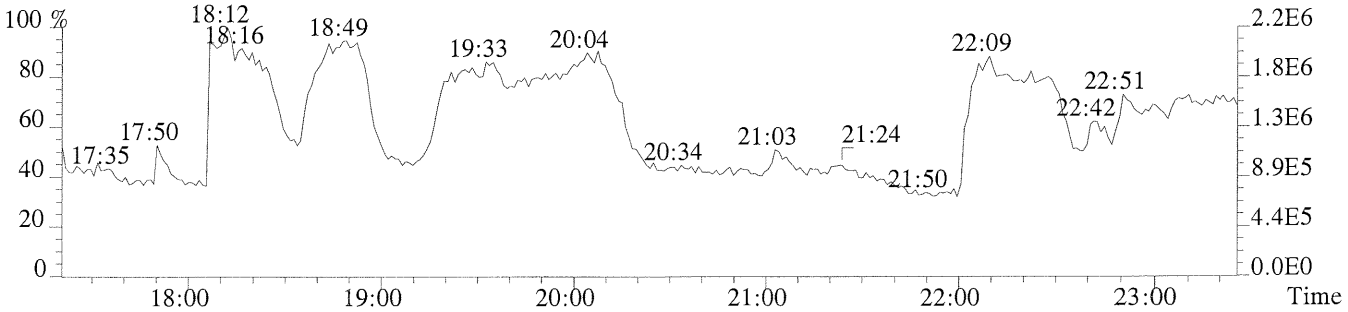
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2004.0,1.00%,F,T)



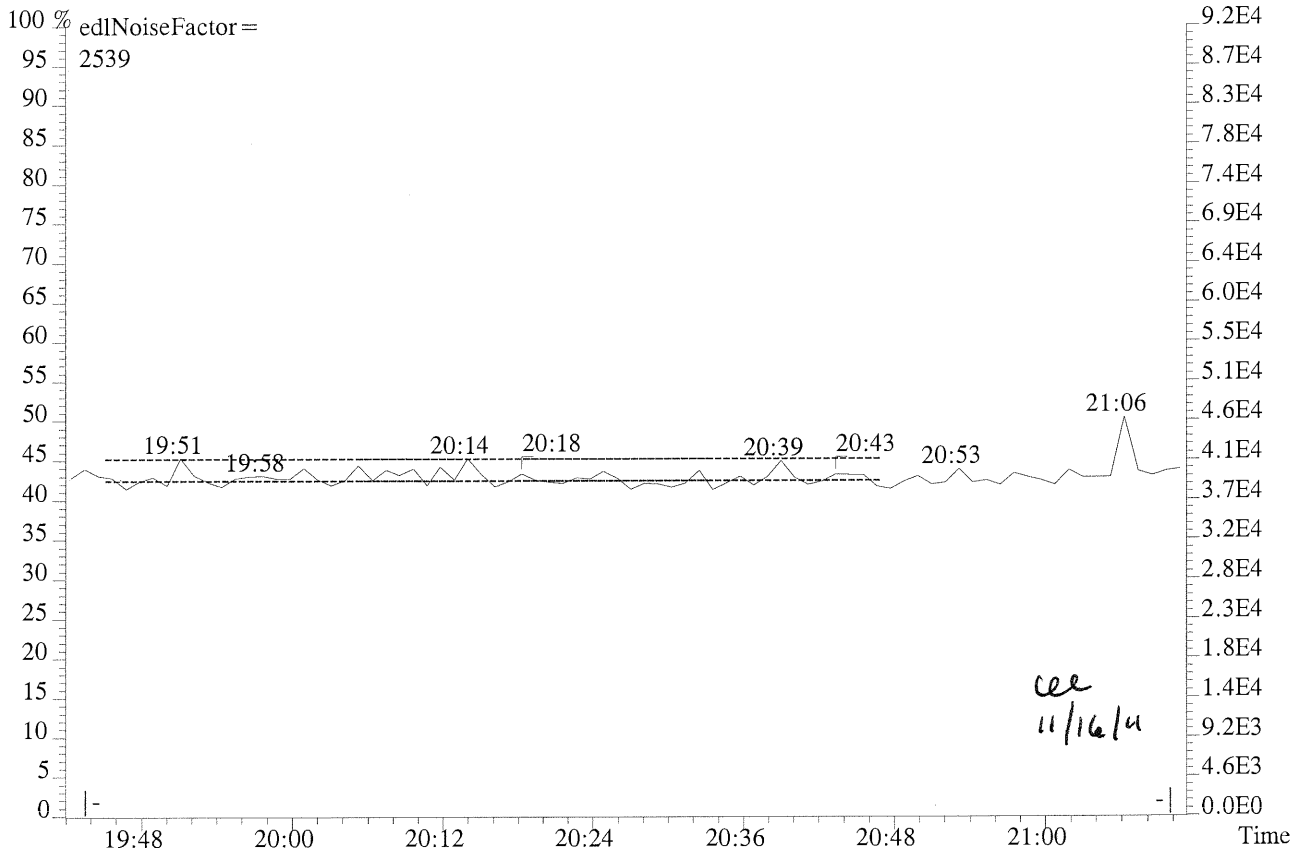
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1520.0,1.00%,F,T)



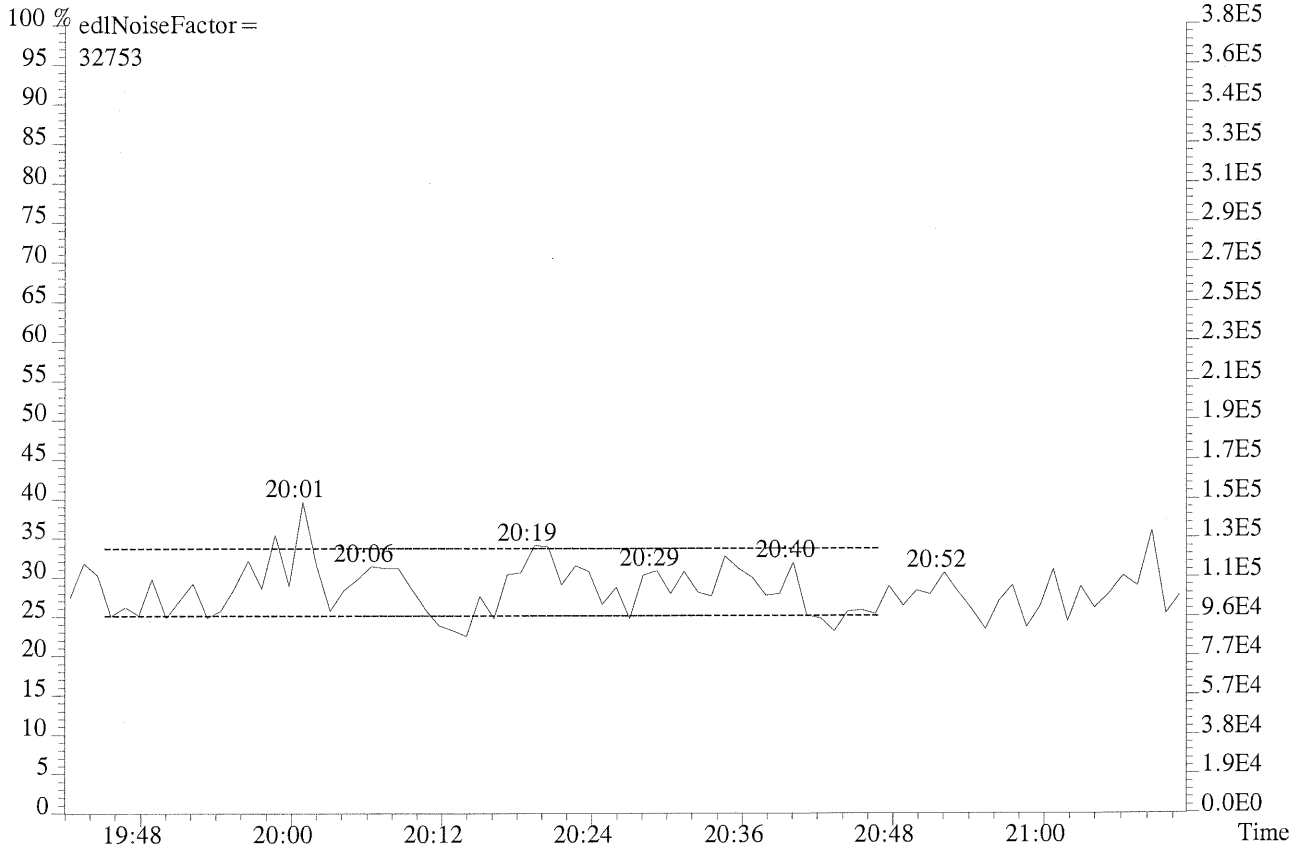
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



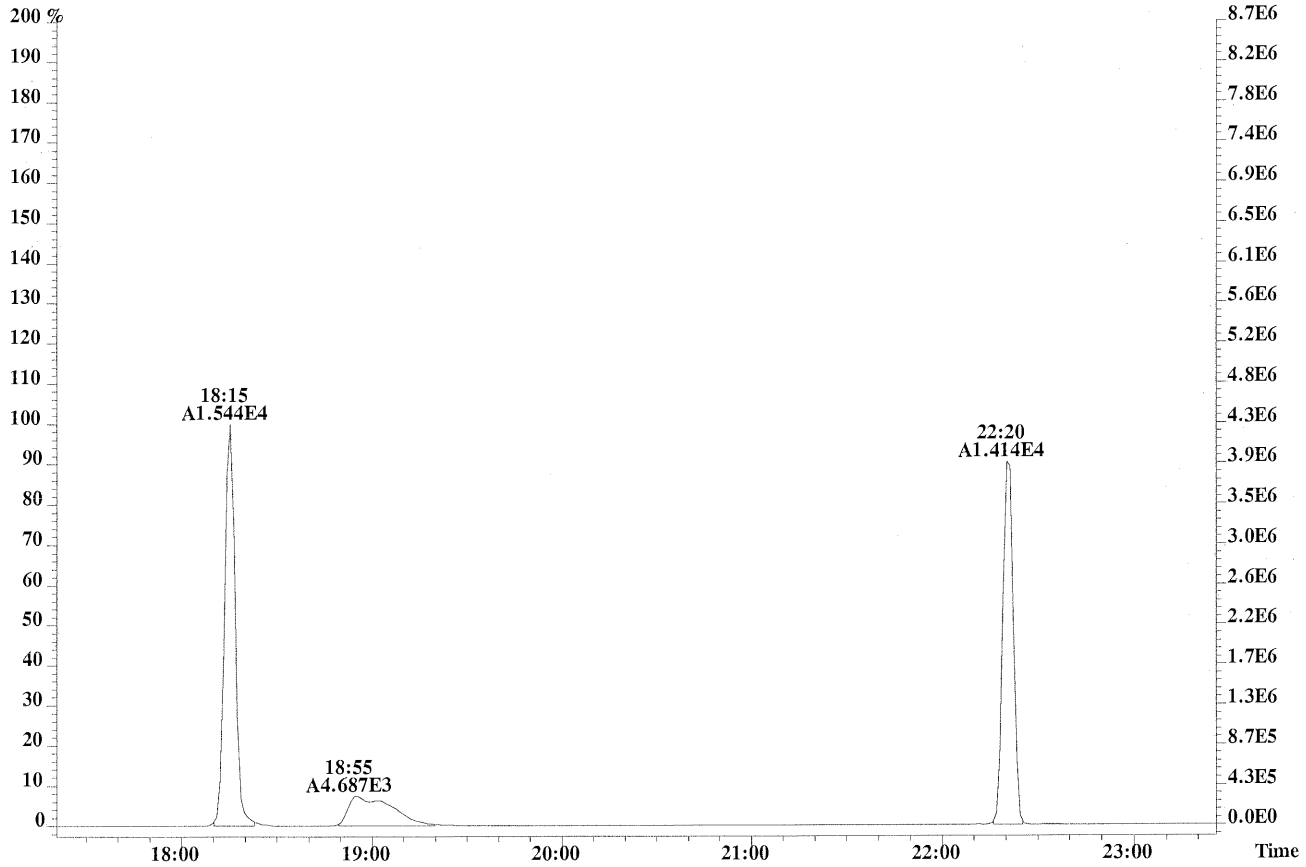
File:U142069 #1-336 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
222.0003 F:2



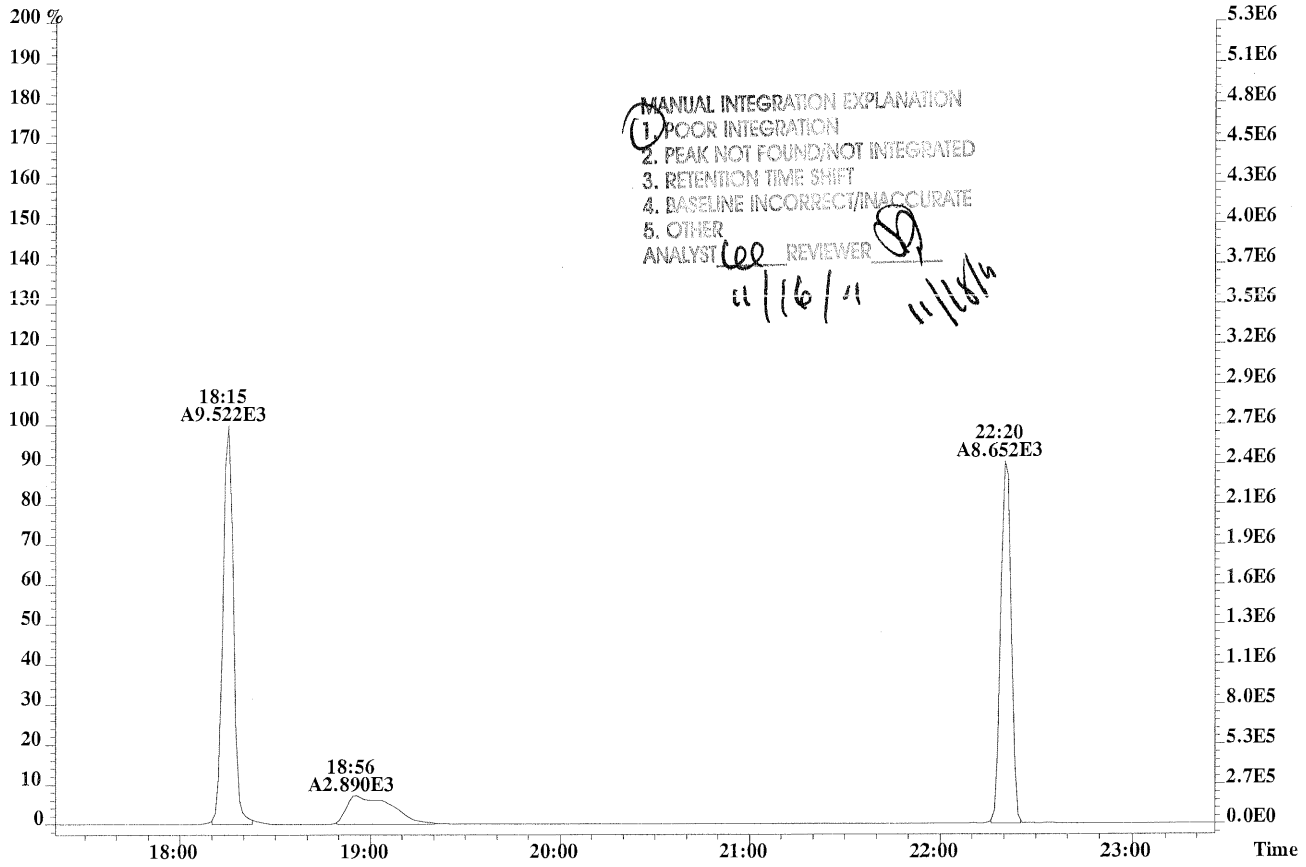
223.9974 F:2



File:U142069 #1-336 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spectrom
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2004.0,1.00%,F,T)

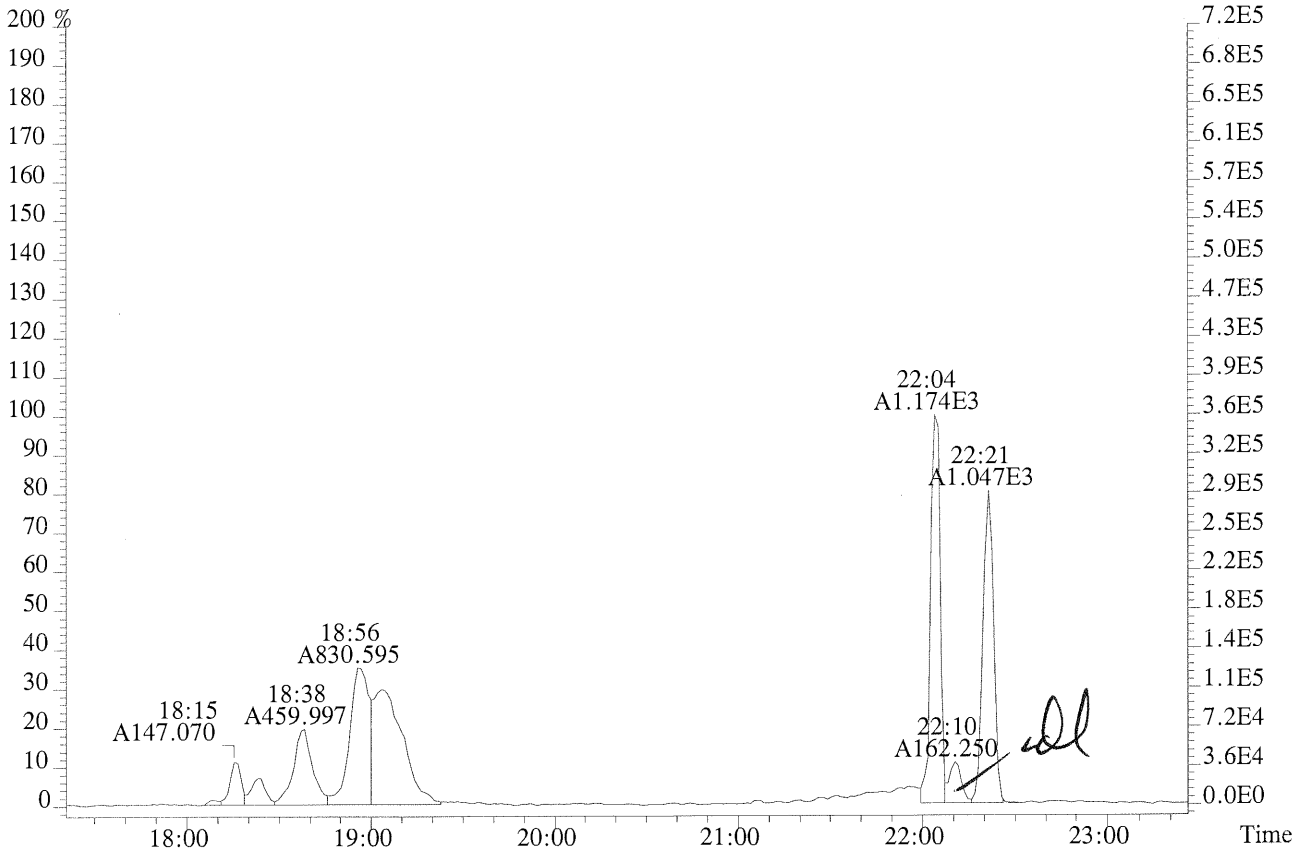


236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1520.0,1.00%,F,T)

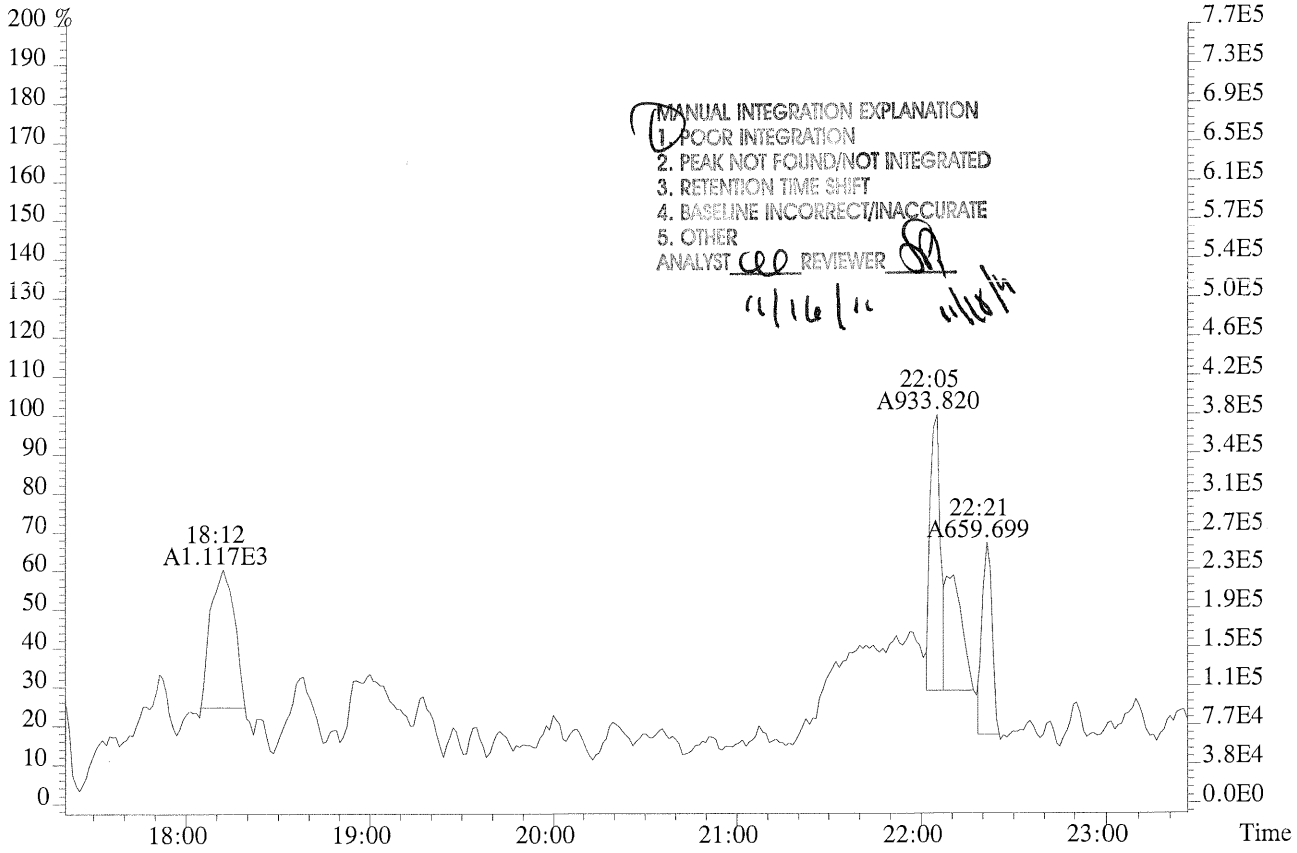


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Lee REVIEWER
11/16/11 11/18/11

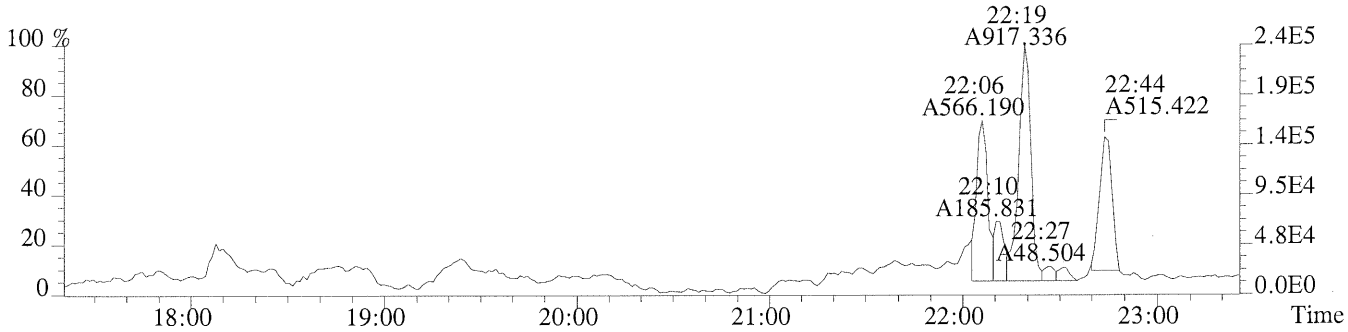
File:U142069 #1-336 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2008.0,1.00%,F,T)



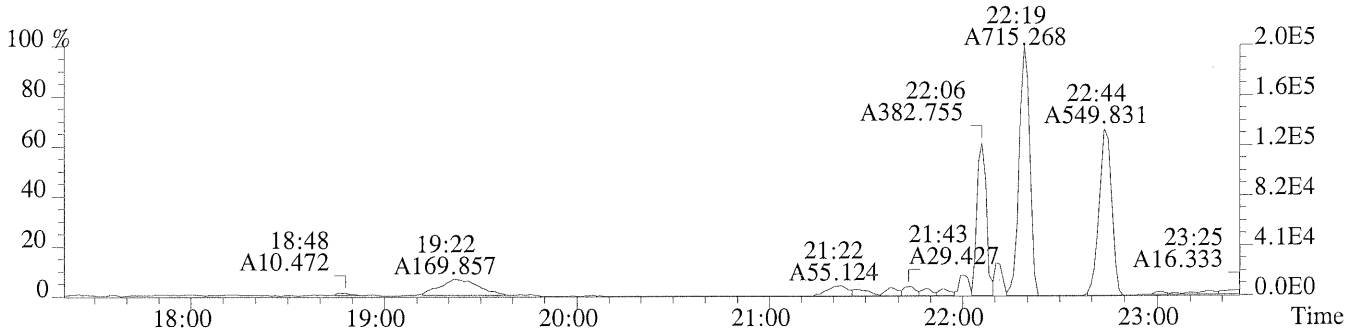
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,104804.0,1.00%,F,T)



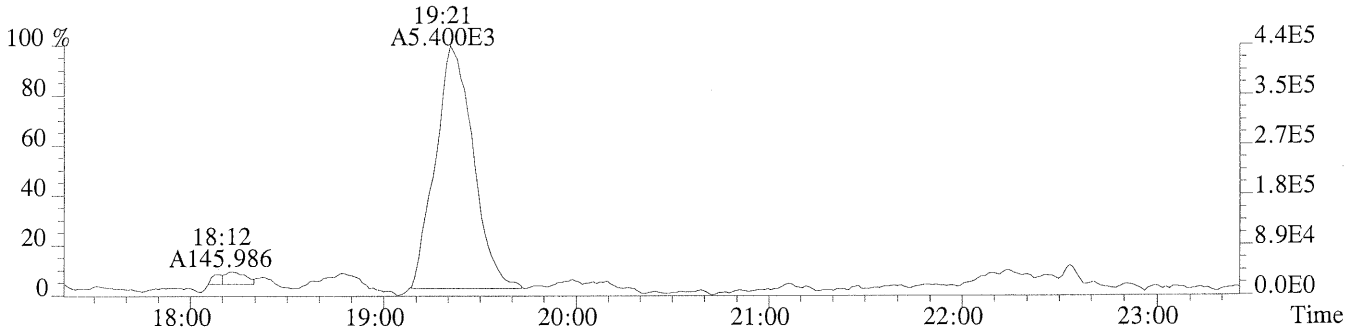
File:U142069 #1-336 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23196.0,1.00%,F,T)



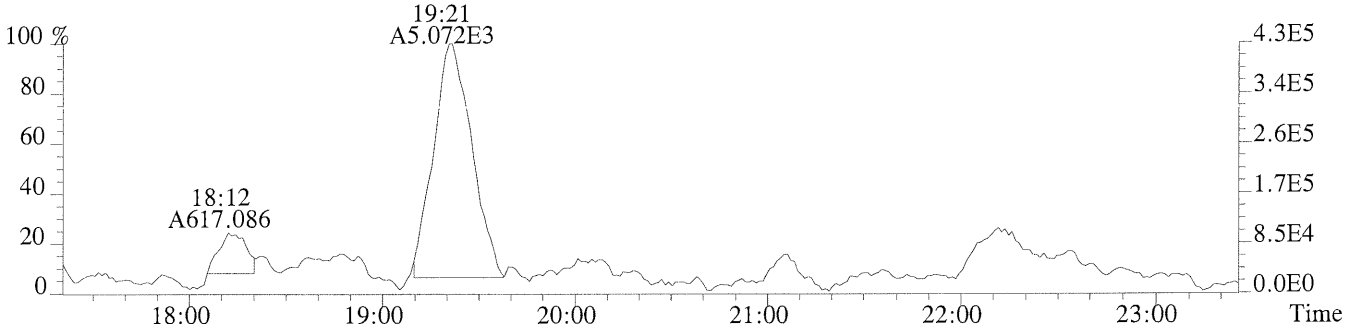
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1460.0,1.00%,F,T)



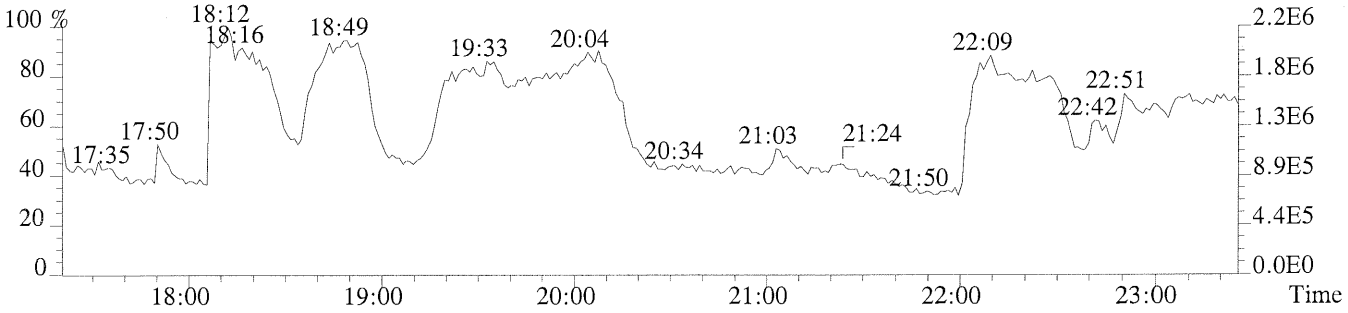
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16684.0,1.00%,F,T)



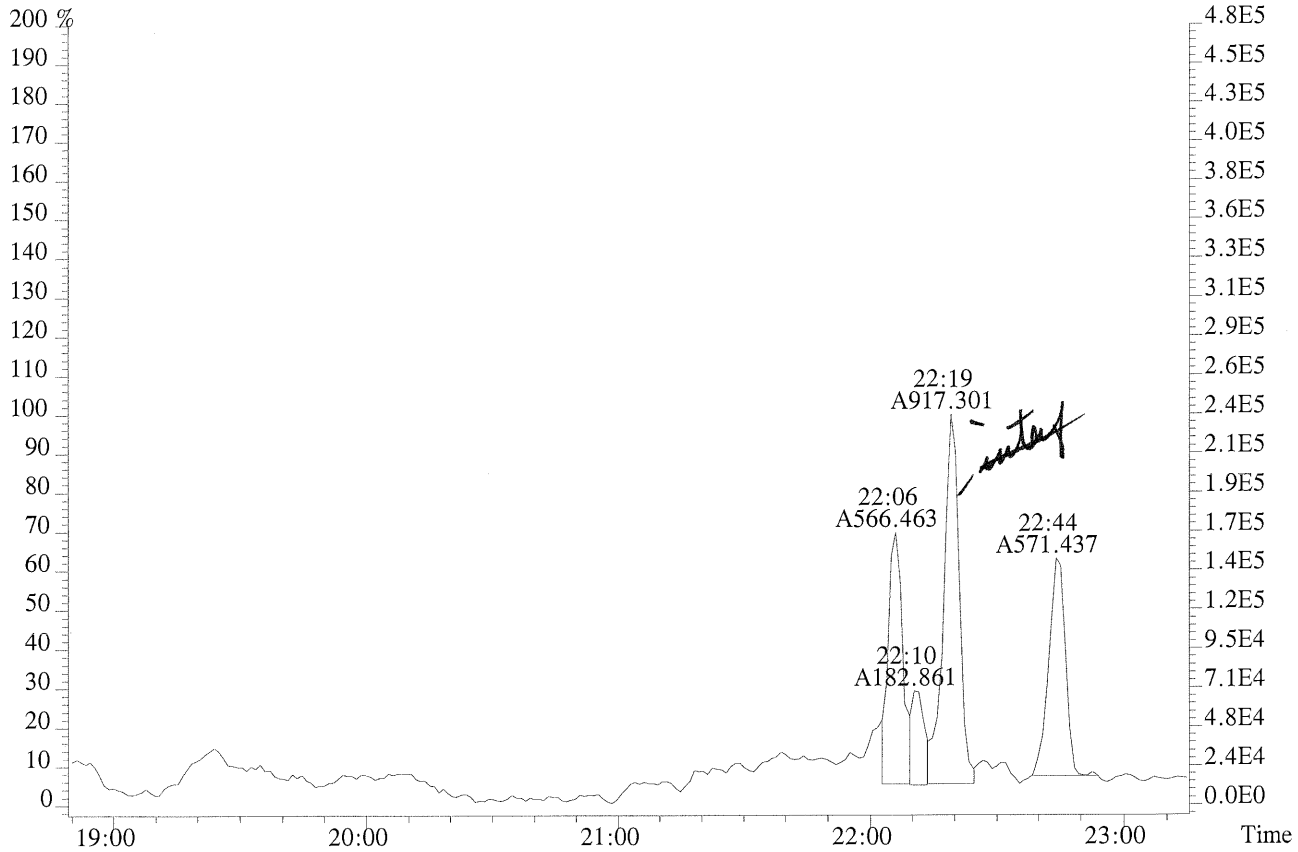
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,32848.0,1.00%,F,T)



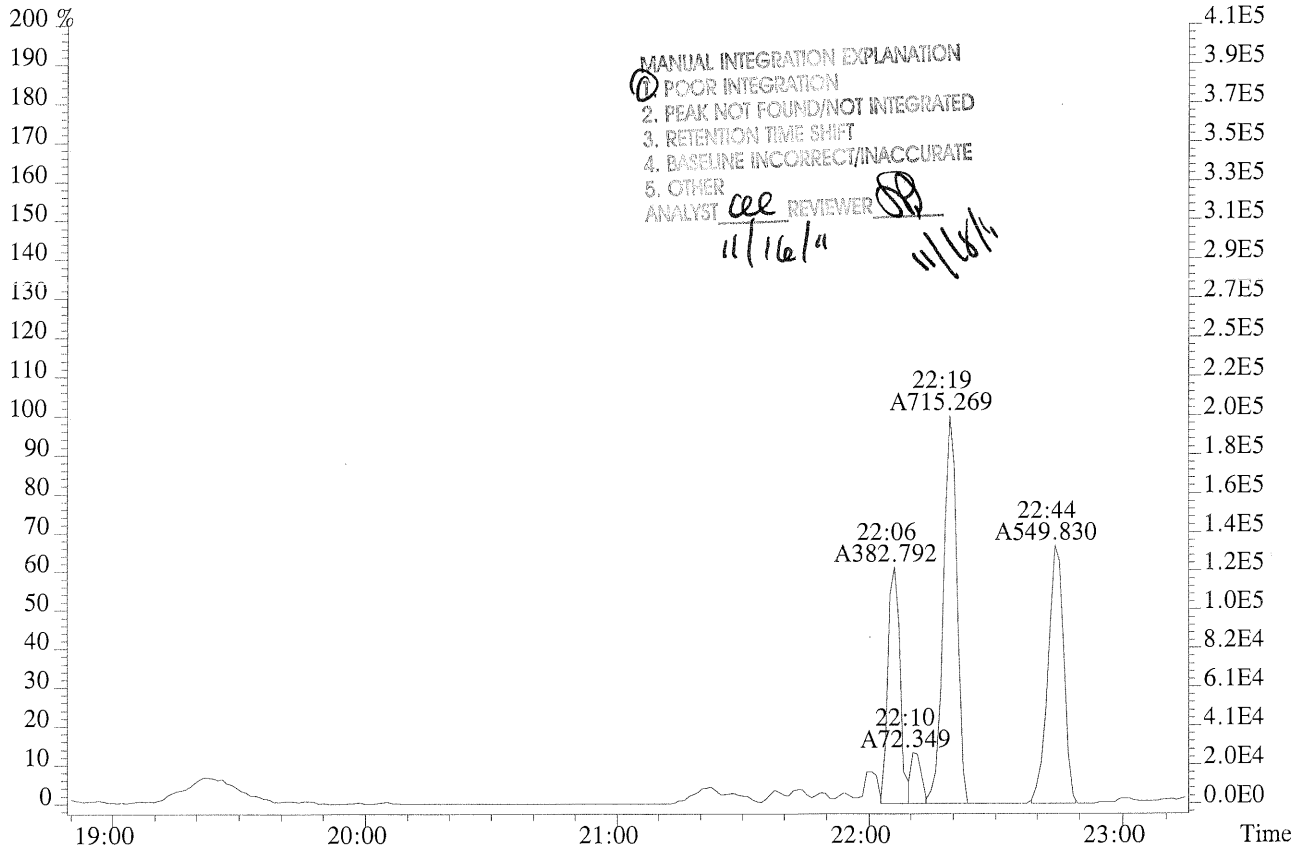
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142069 #1-336 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0)

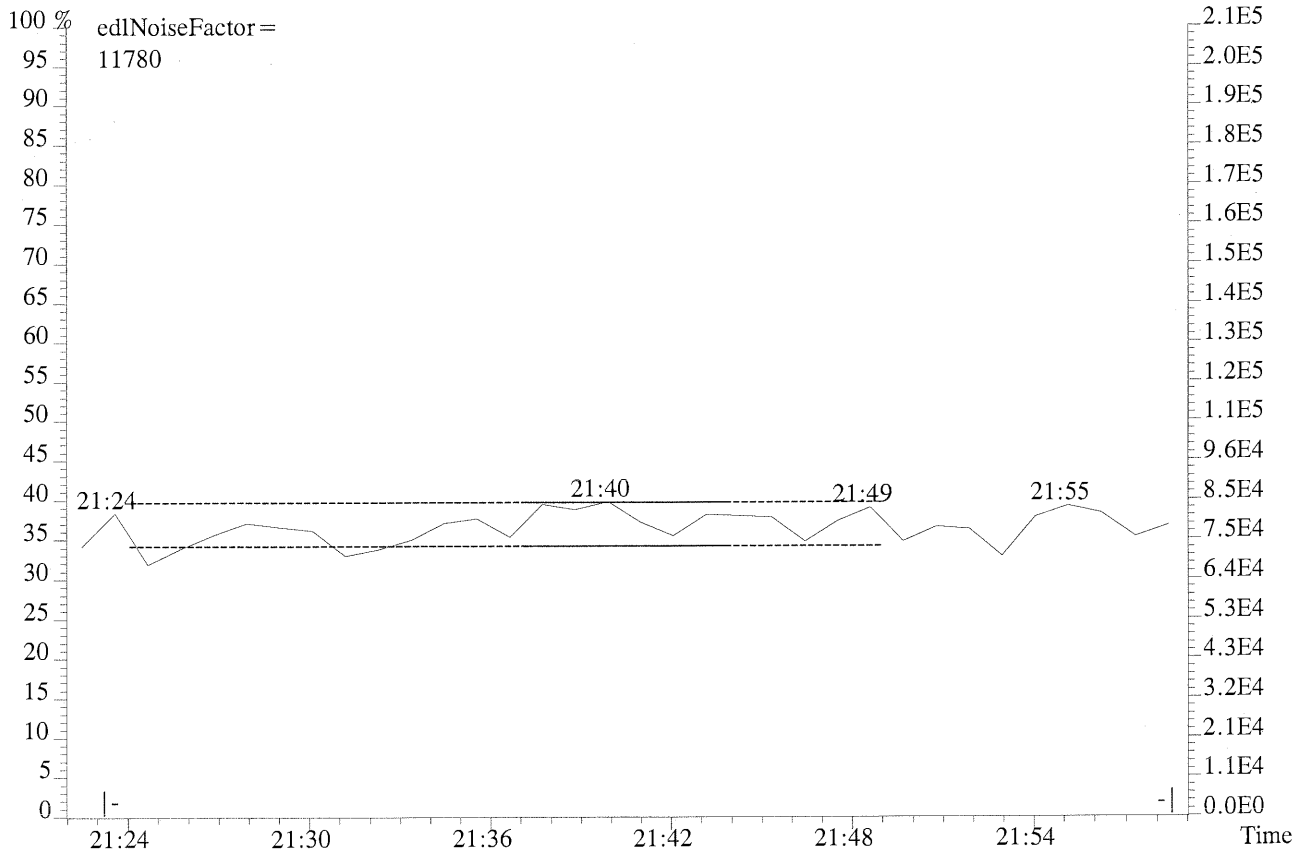


257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0)

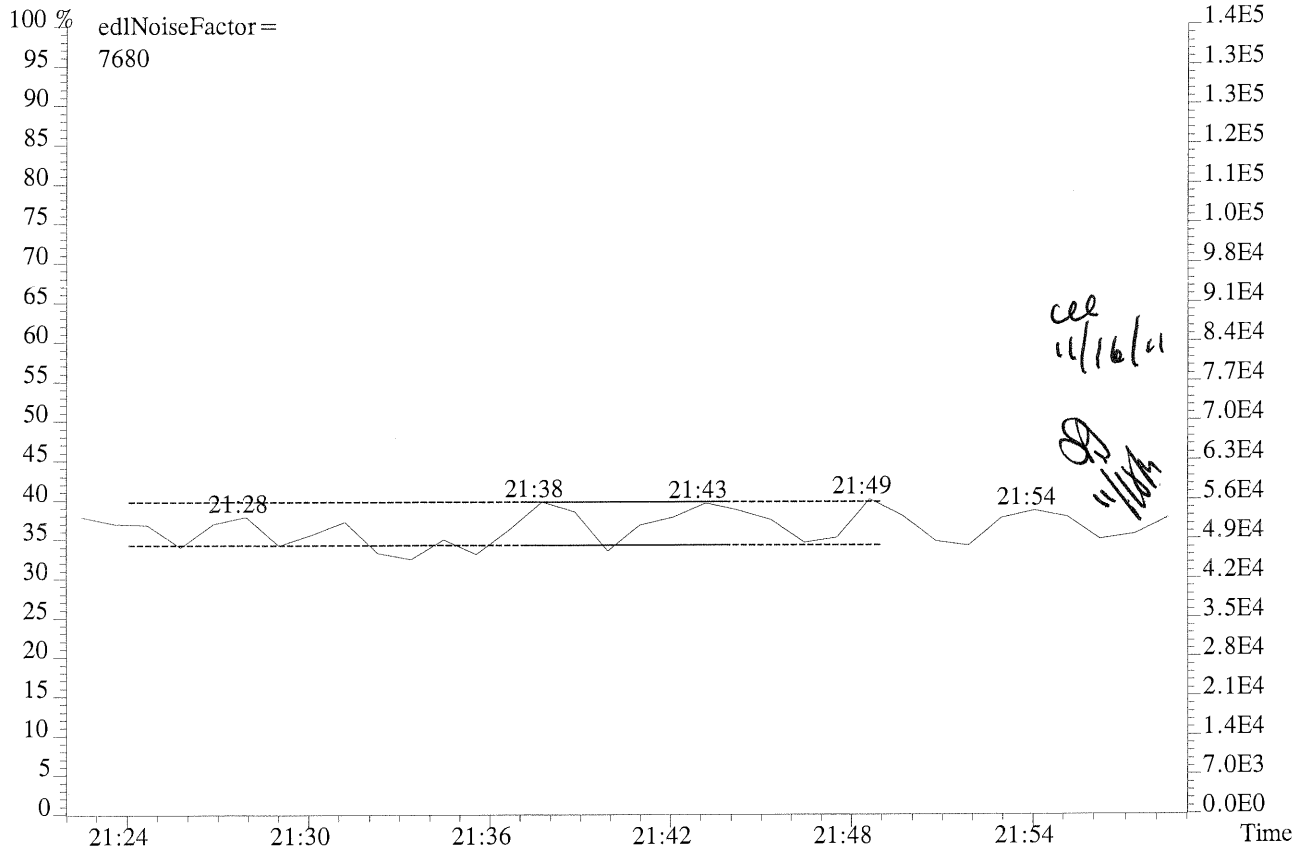


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER
11/16/11 11/18/11

File:U142069 #1-336 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
255.9613 F:2



257.9584 F:2



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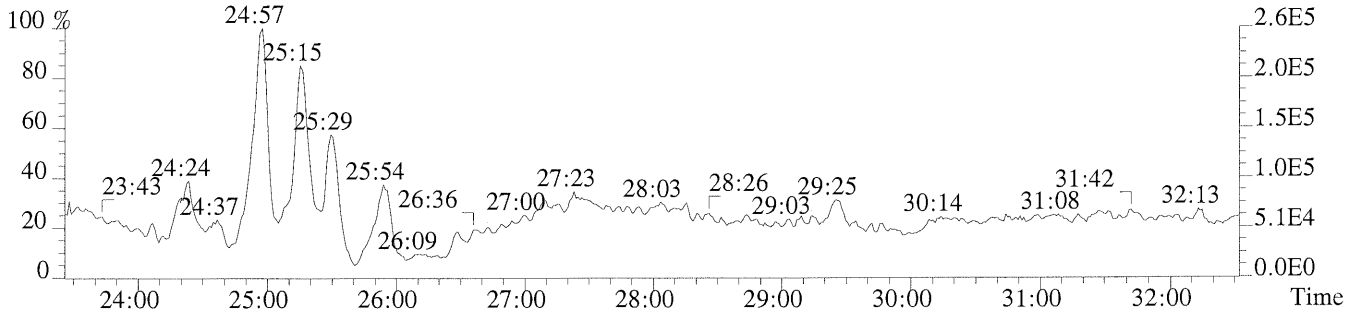
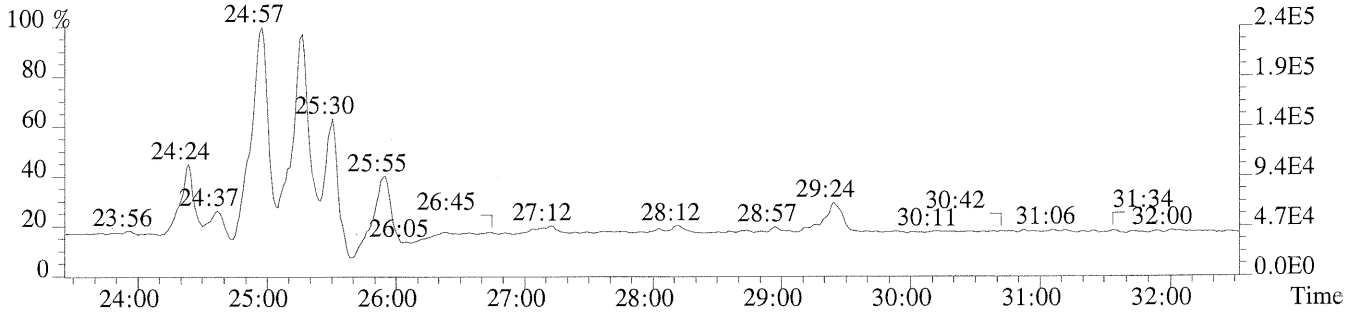
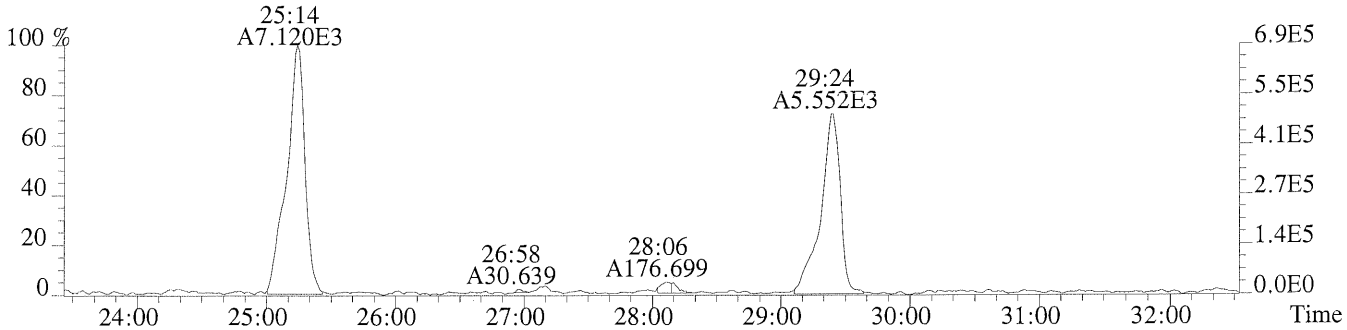
File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,79648.0,1.00%,F,T)



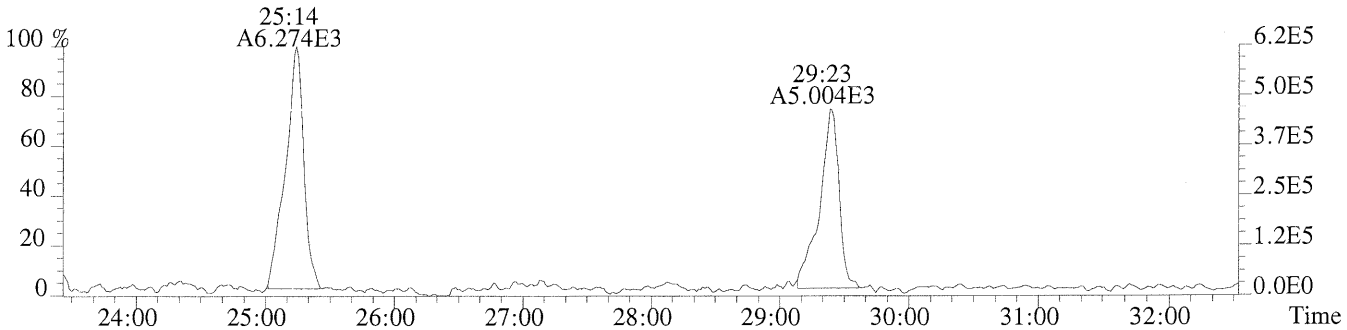
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,87908.0,1.00%,F,T)



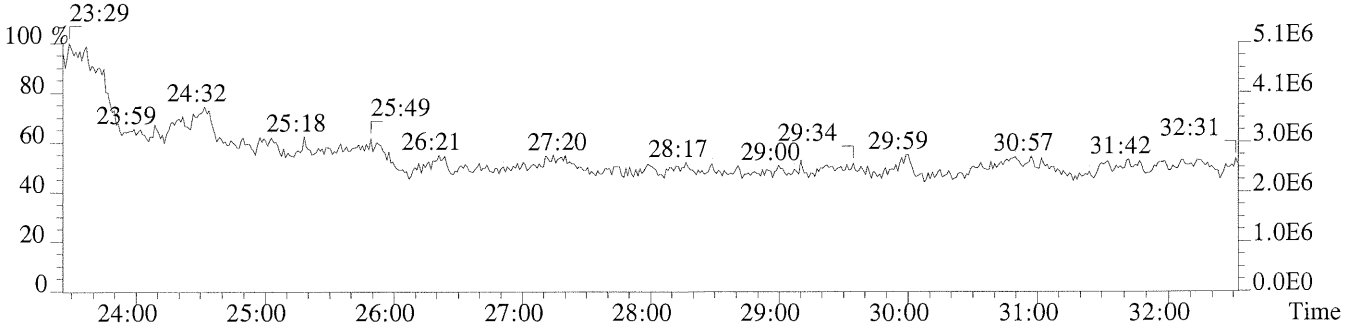
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8556.0,1.00%,F,T)



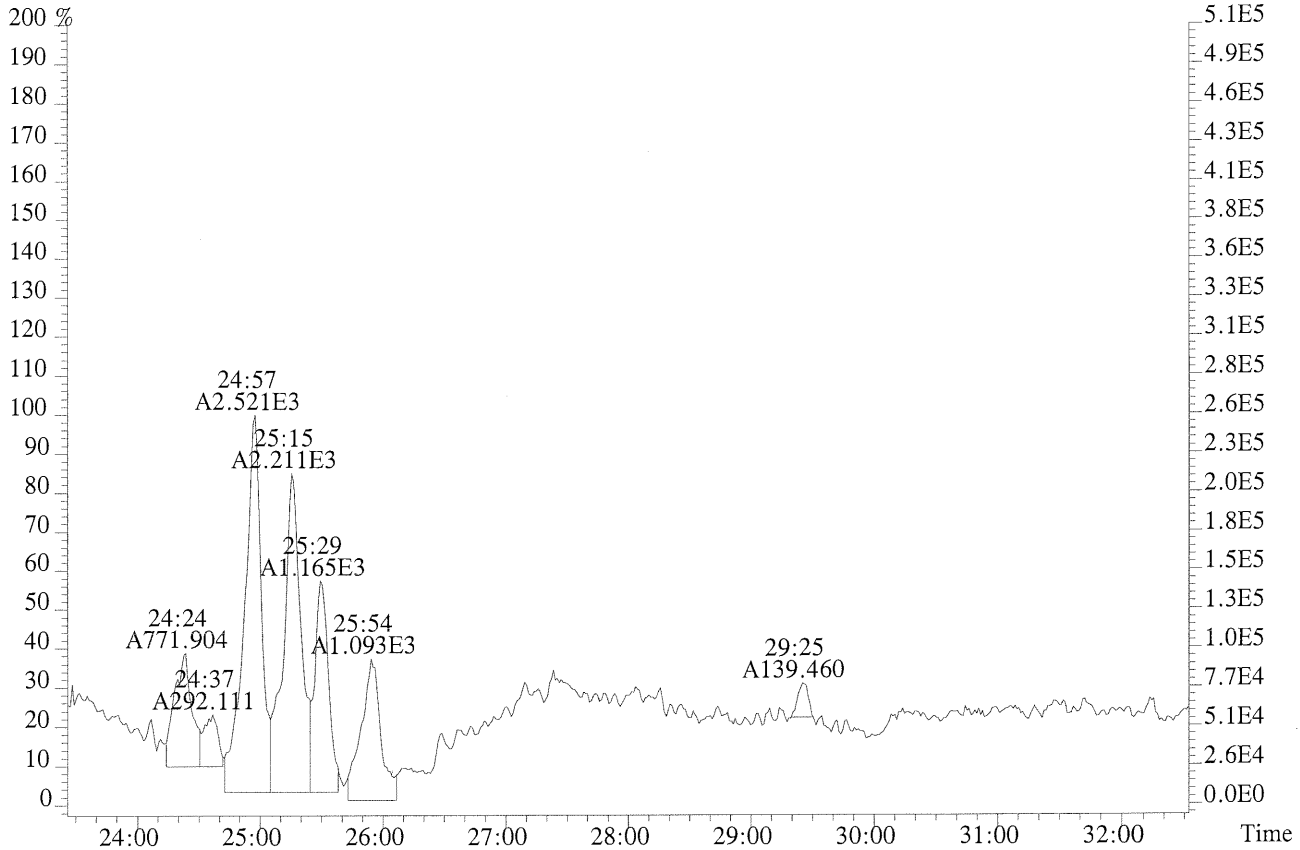
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23936.0,1.00%,F,T)



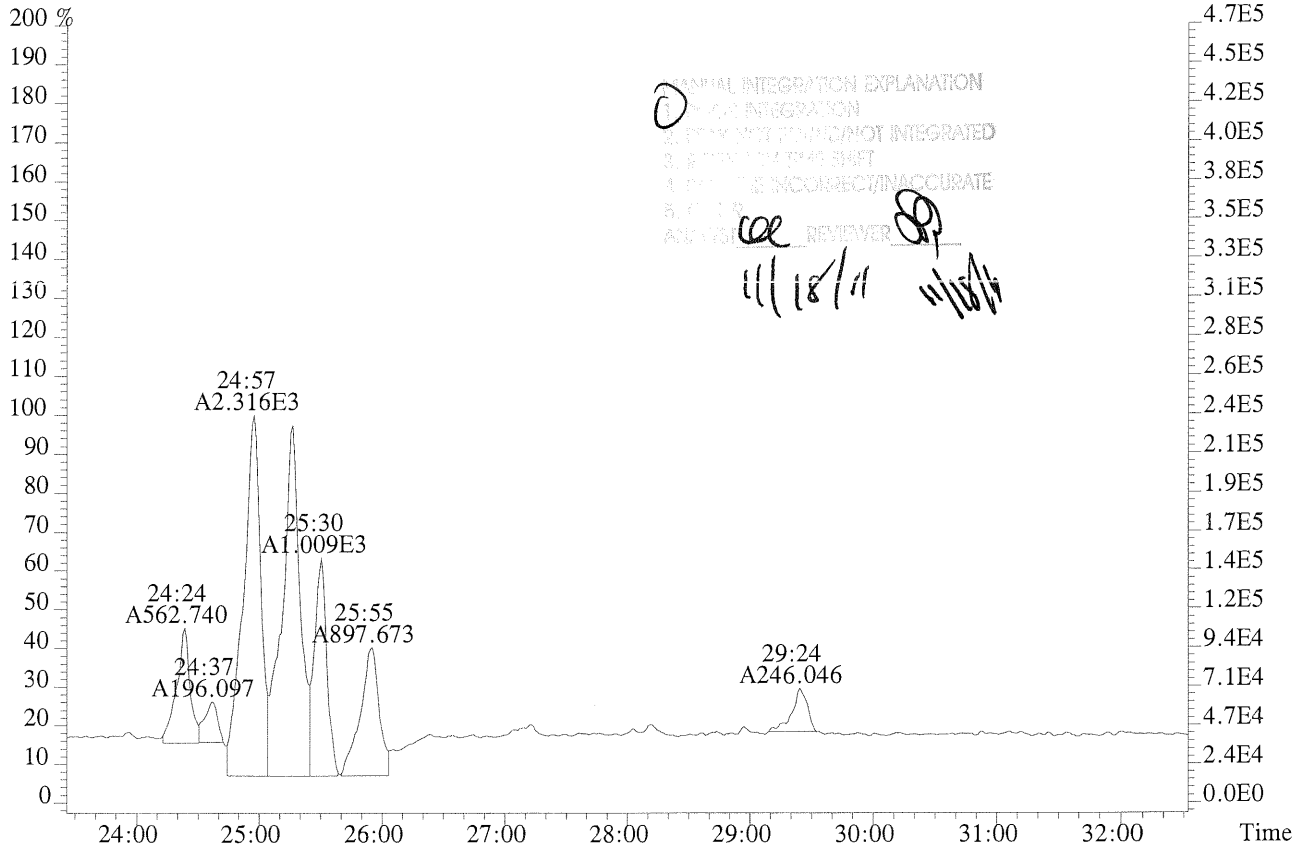
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



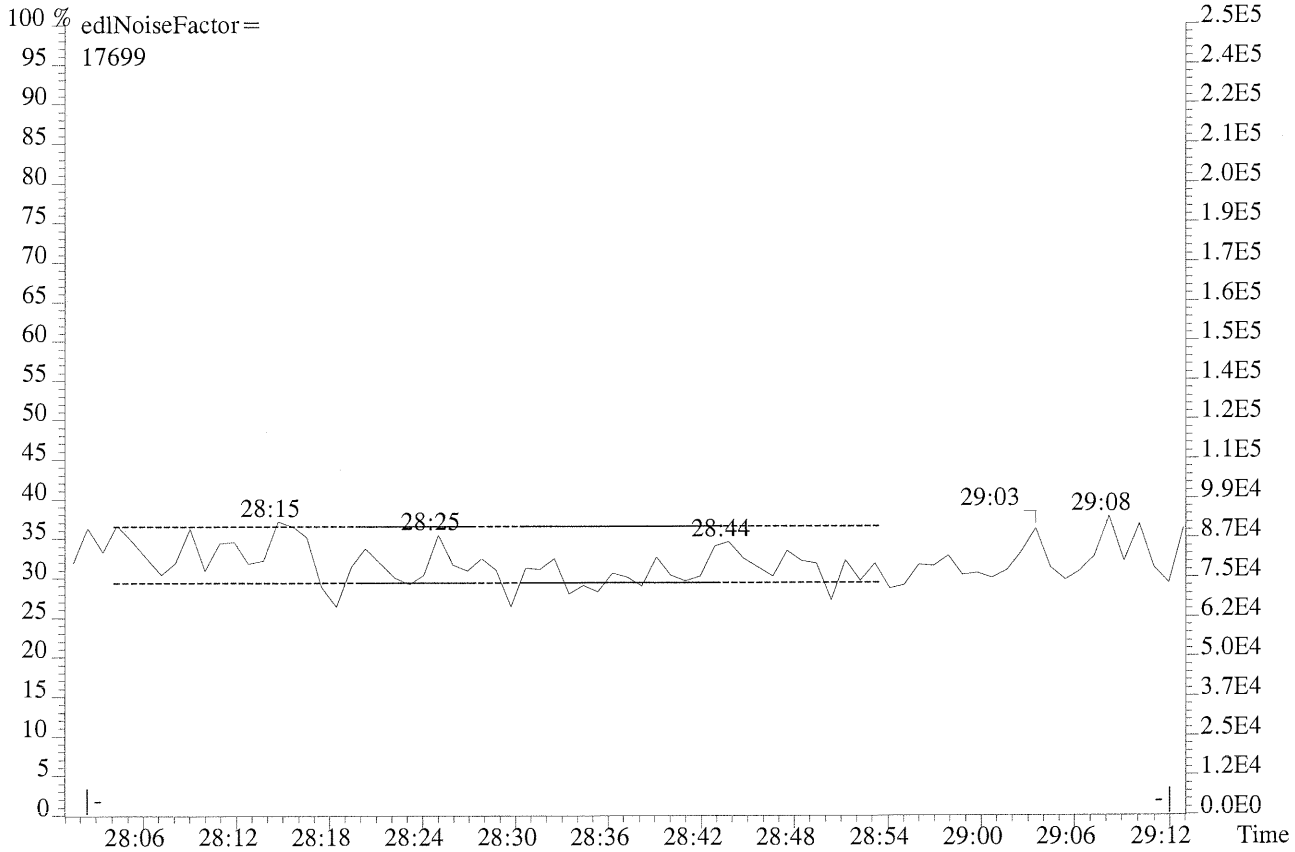
File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,79648.0,1.00%,F,T)



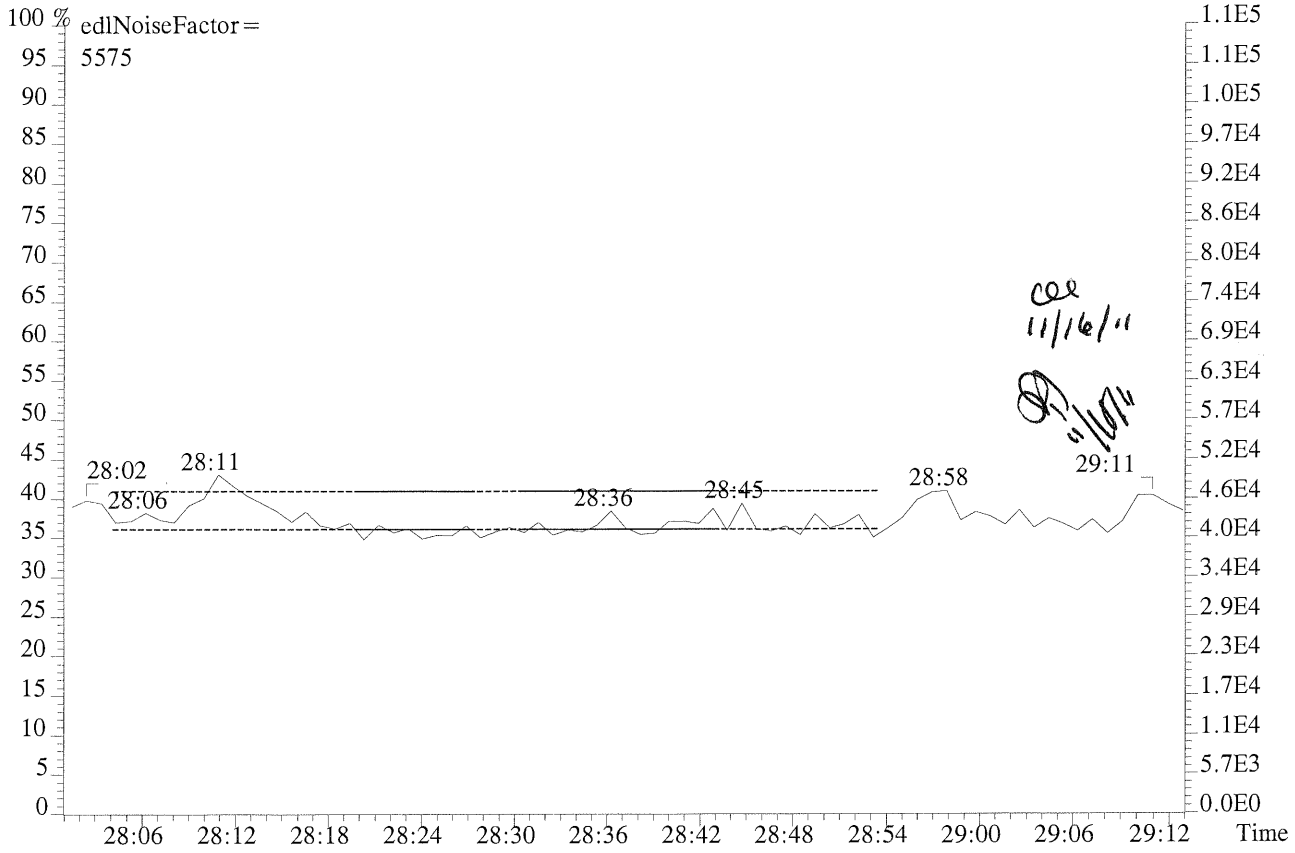
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0)



File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
255.9613 F:3



257.9584 F:3



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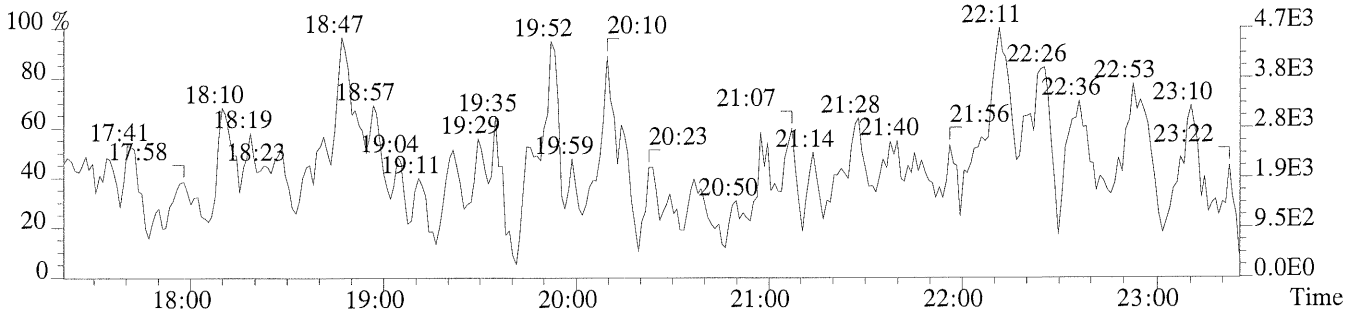
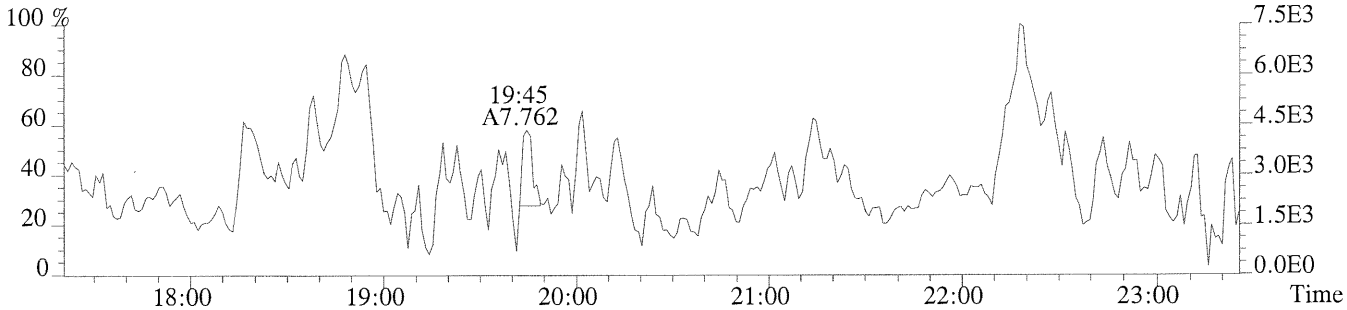
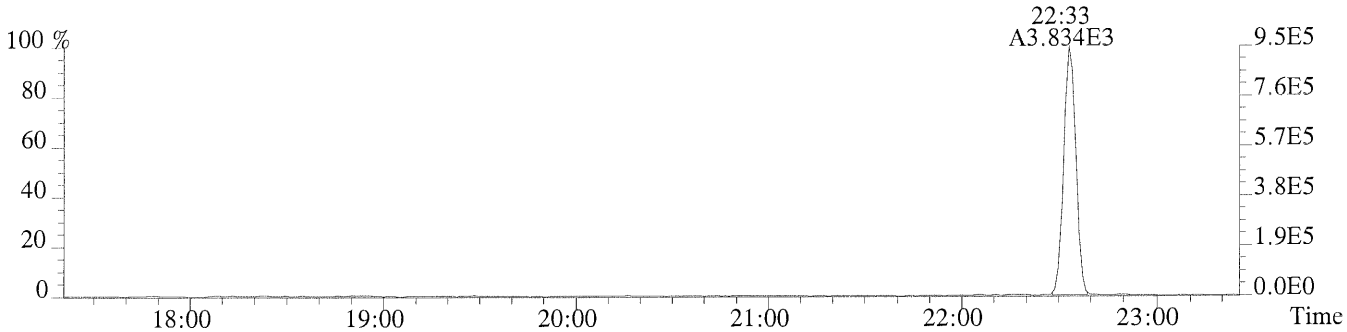
File:U142069 #1-336 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2544.0,1.00%,F,T)



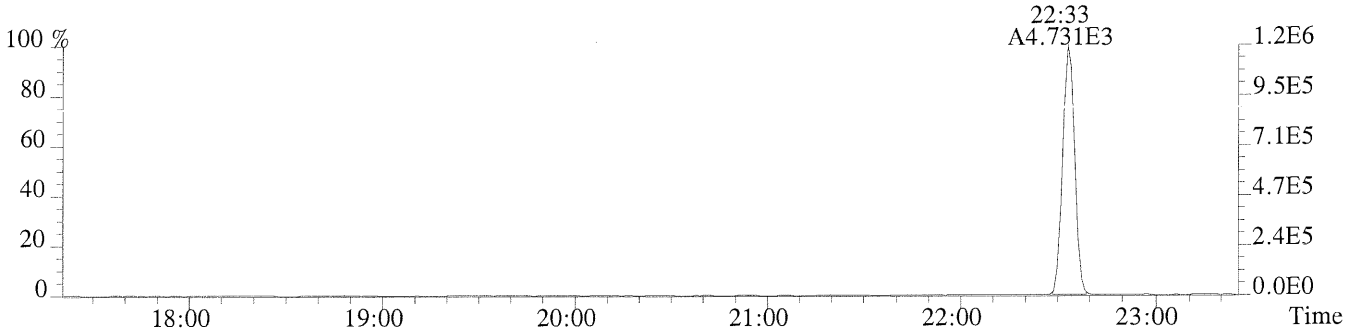
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3264.0,1.00%,F,T)



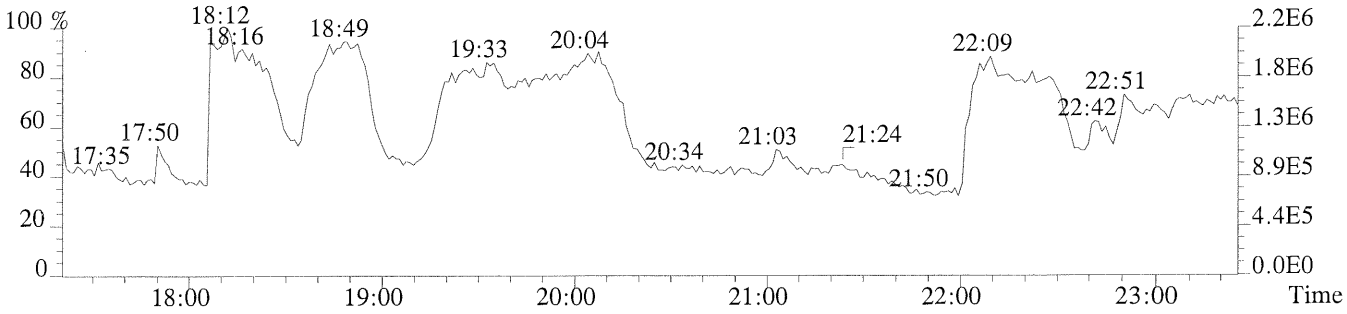
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2340.0,1.00%,F,T)



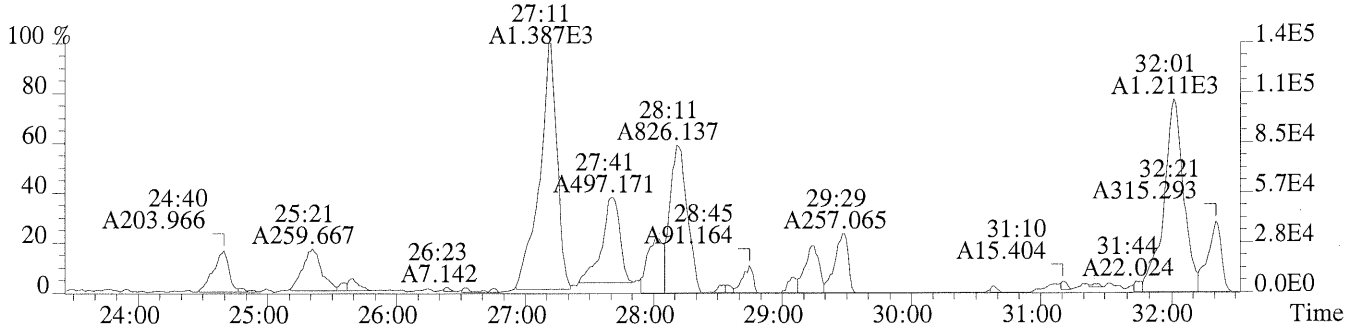
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2372.0,1.00%,F,T)



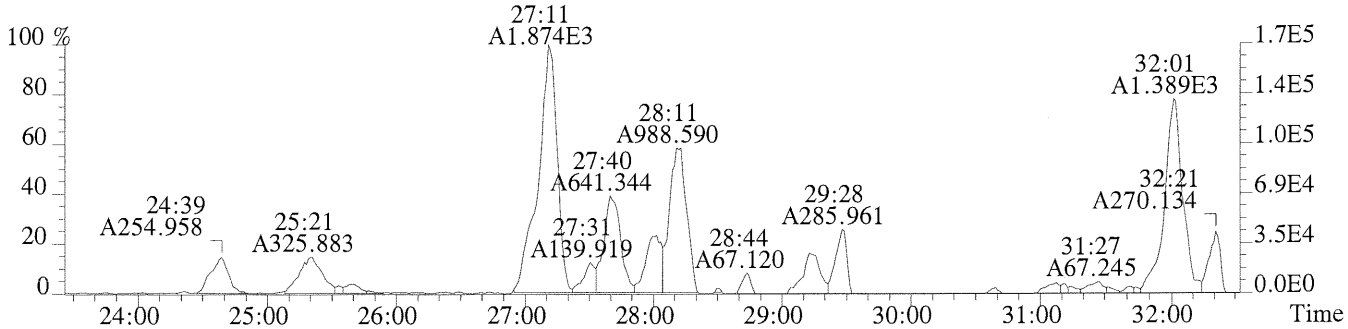
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



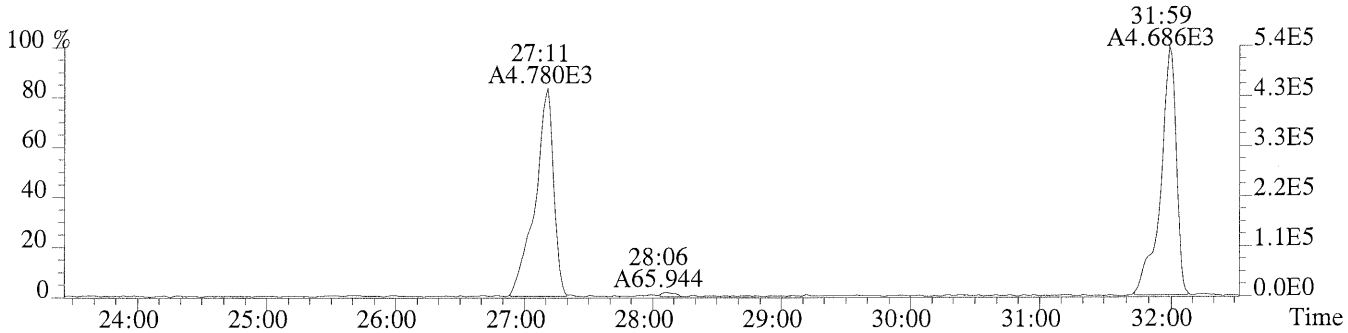
File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1608.0,1.00%,F,T)



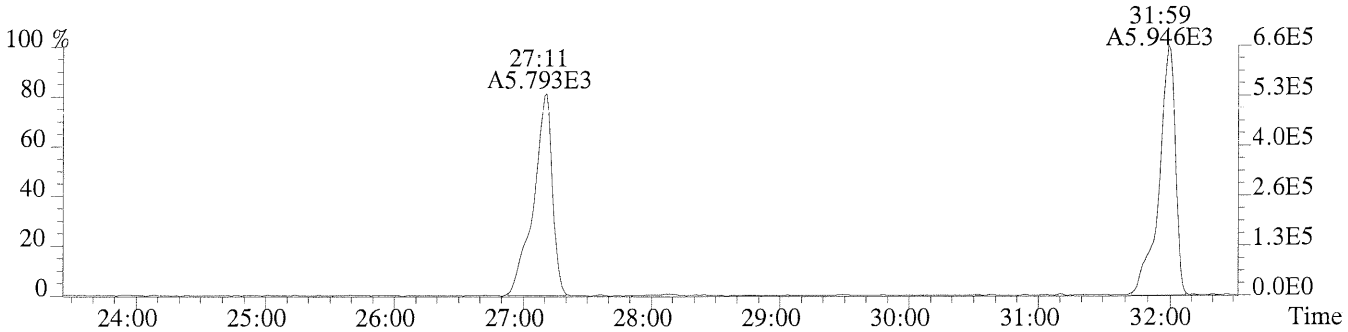
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,780.0,1.00%,F,T)



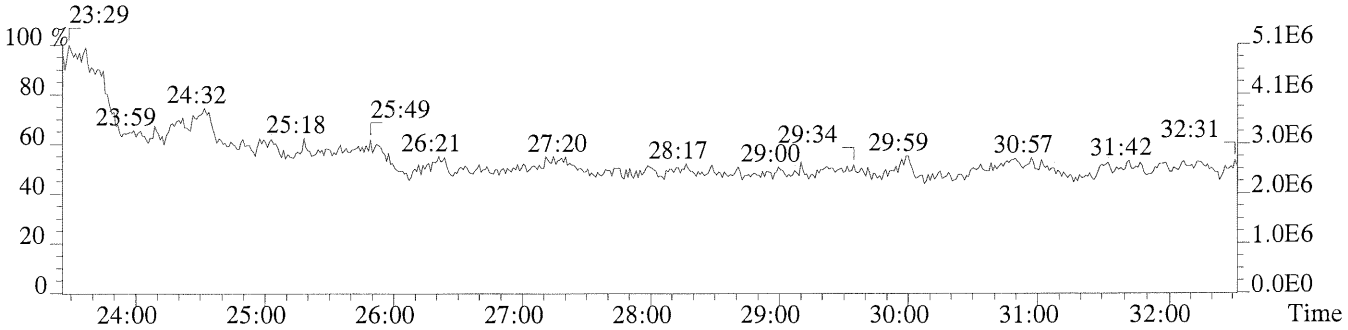
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3628.0,1.00%,F,T)



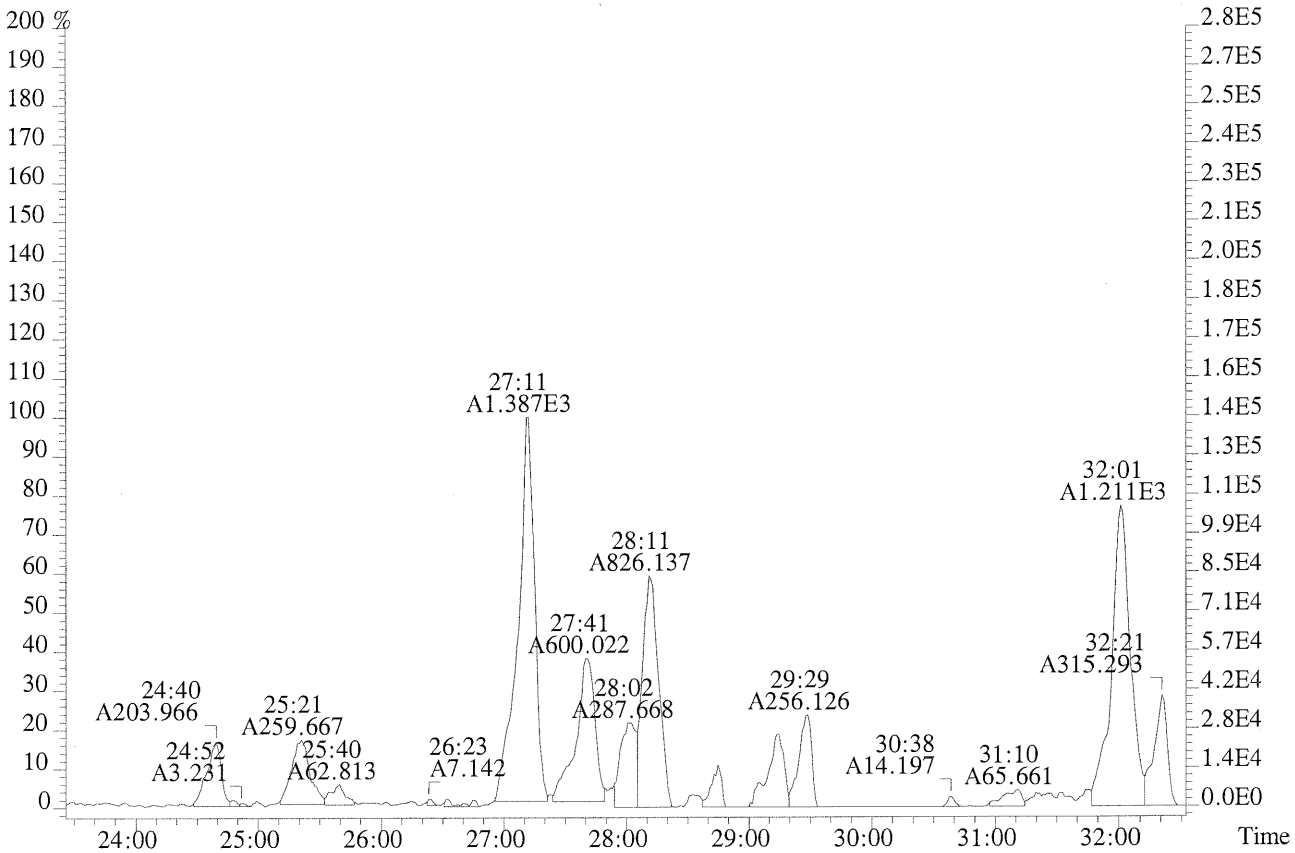
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2236.0,1.00%,F,T)



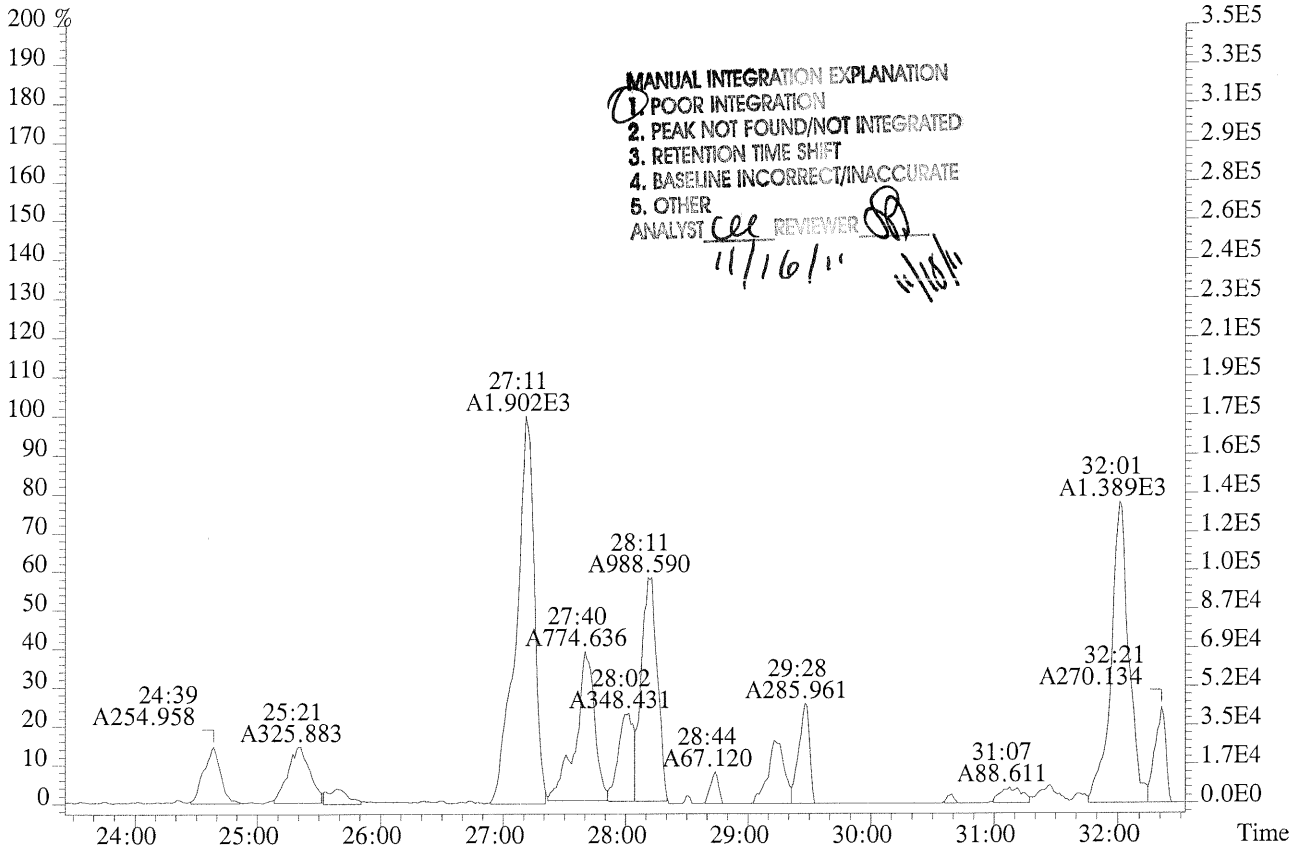
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1608.0,1.00%,F,T)

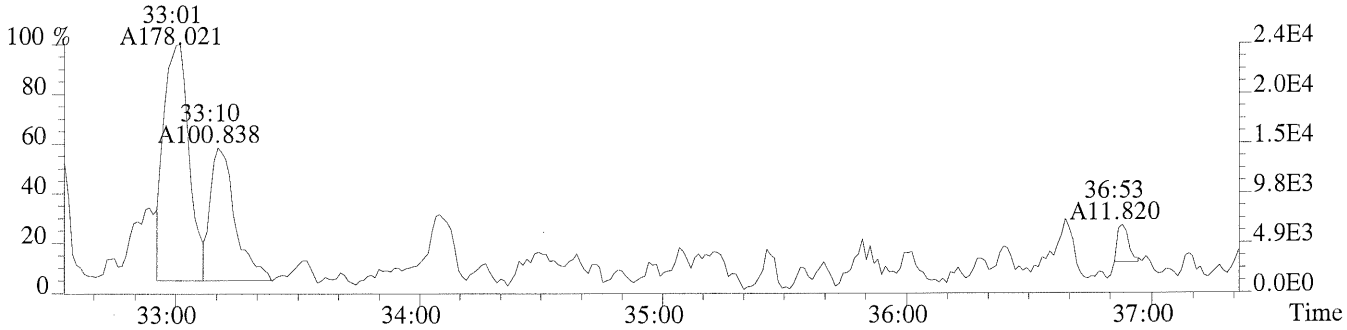


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,780.0,1.00%,F,T)

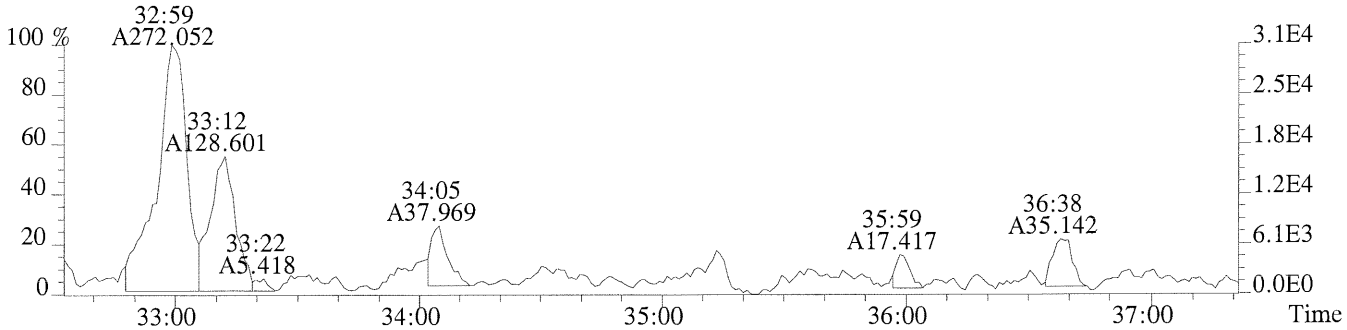


File:U142069 #1-308 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs

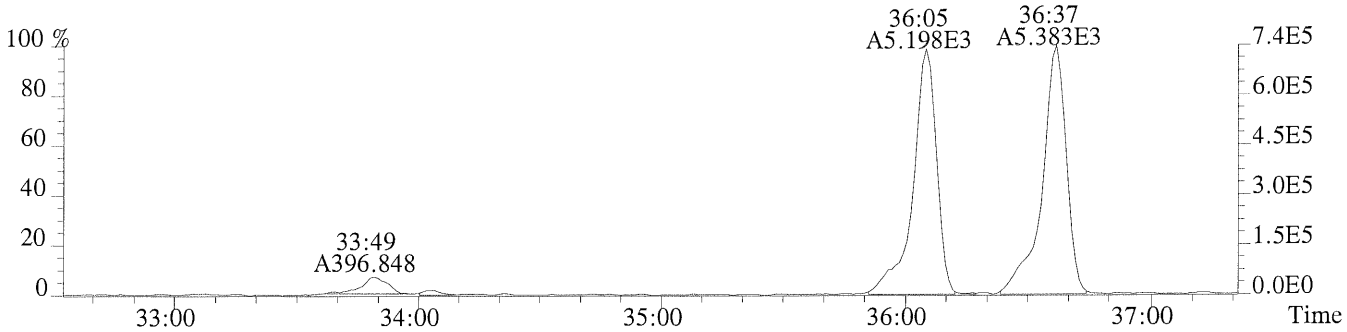
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2824.0,1.00%,F,T)



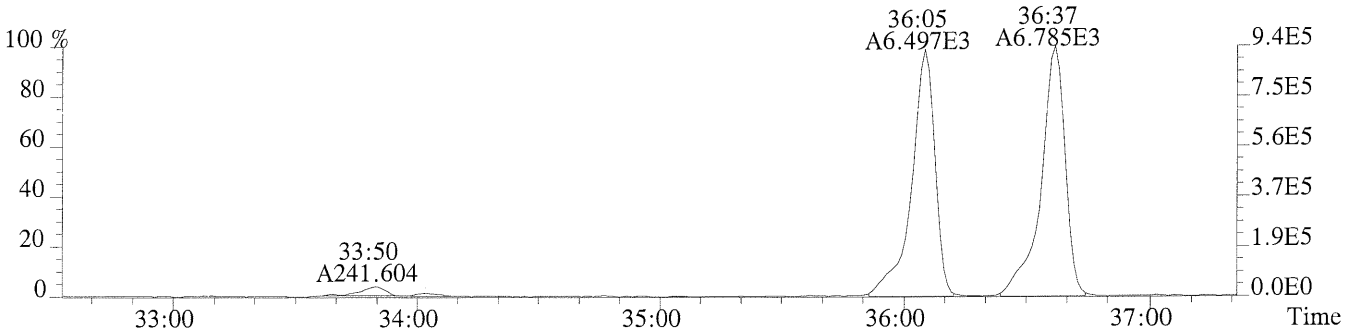
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2044.0,1.00%,F,T)



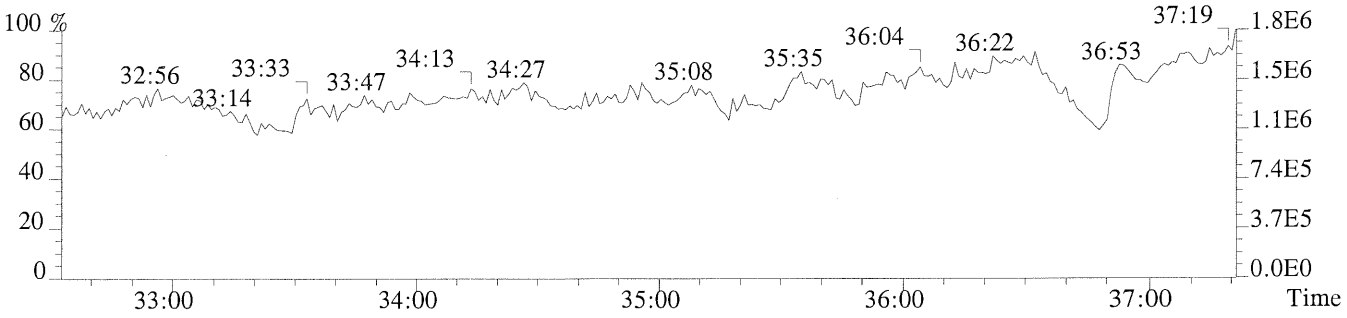
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3360.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2304.0,1.00%,F,T)

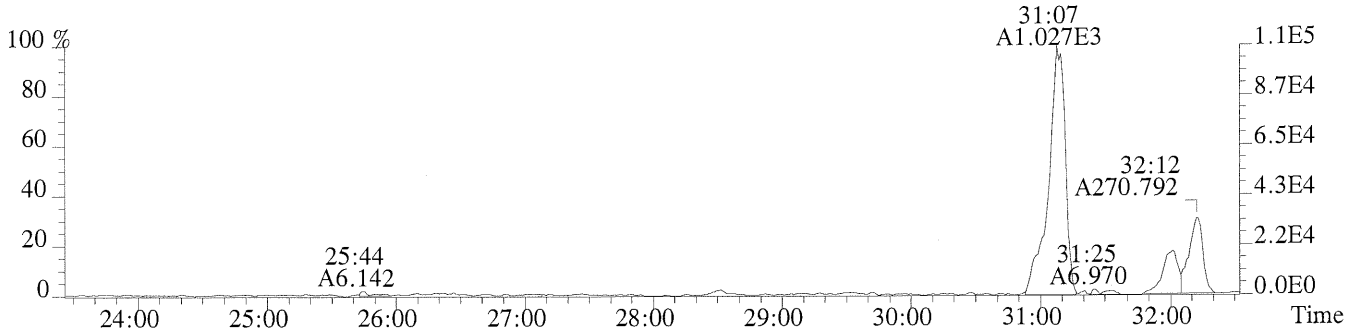


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

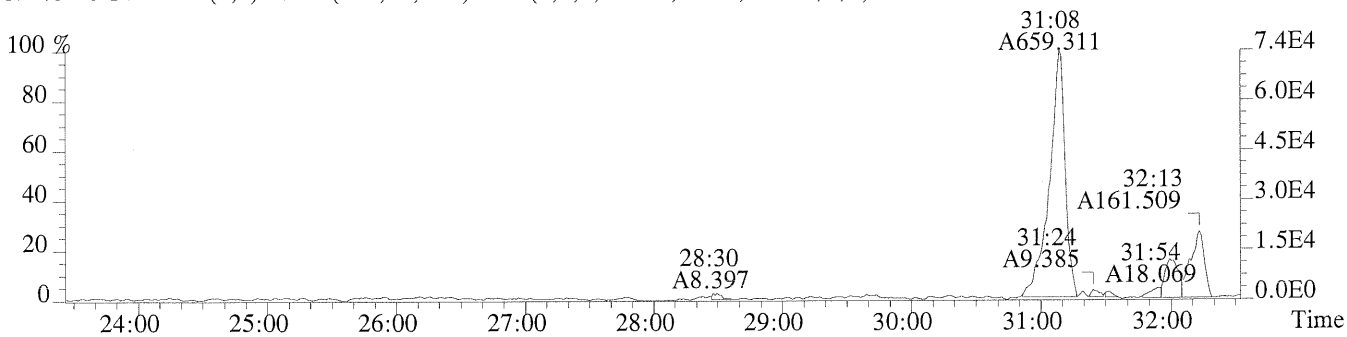


File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs

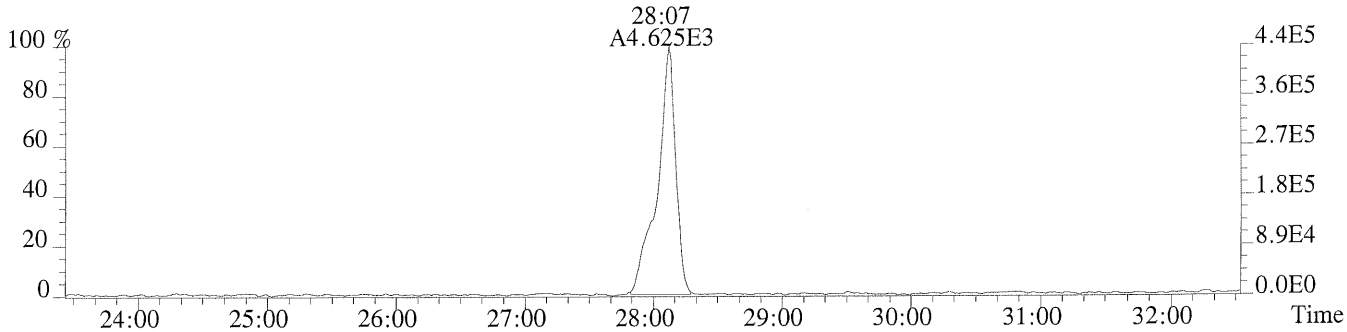
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,768.0,1.00%,F,T)



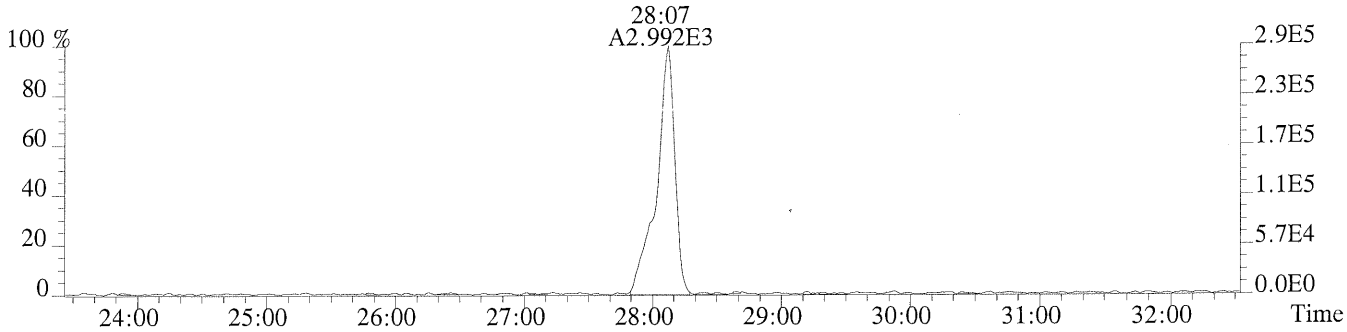
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)



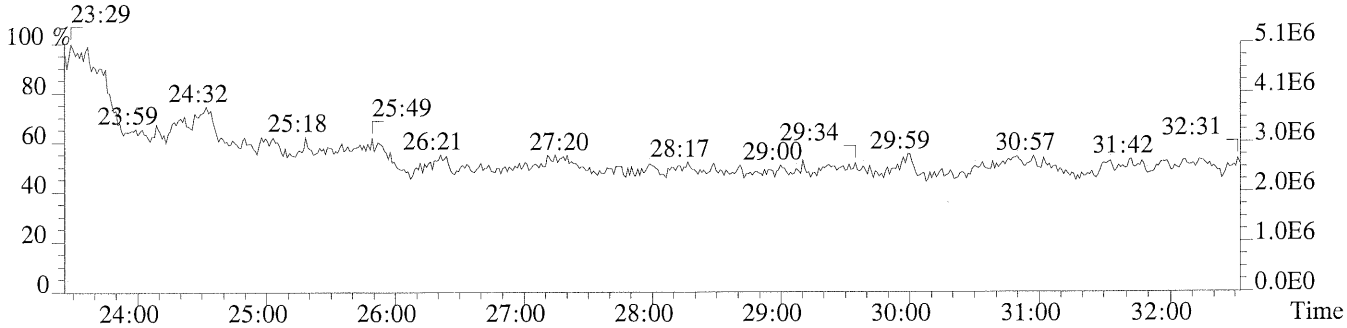
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4424.0,1.00%,F,T)



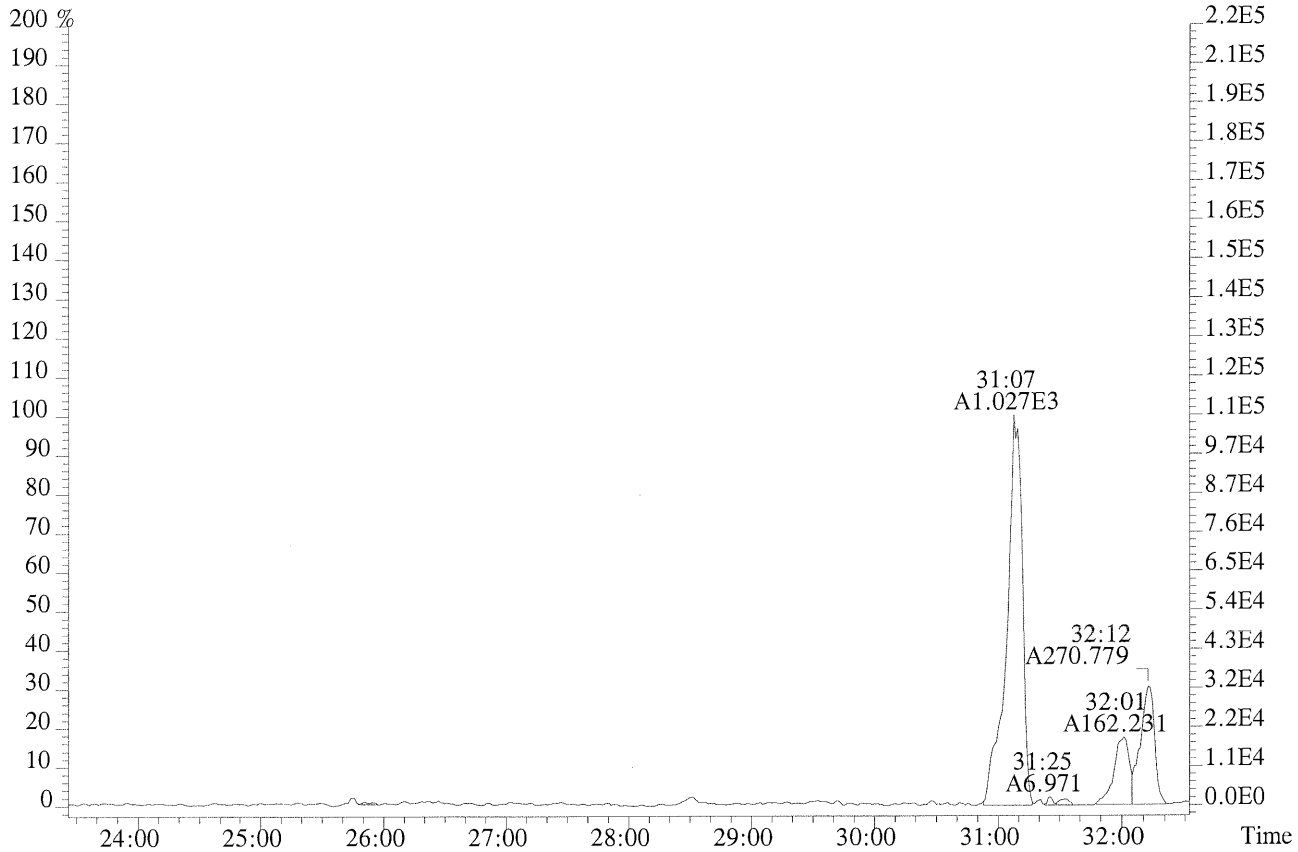
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1652.0,1.00%,F,T)



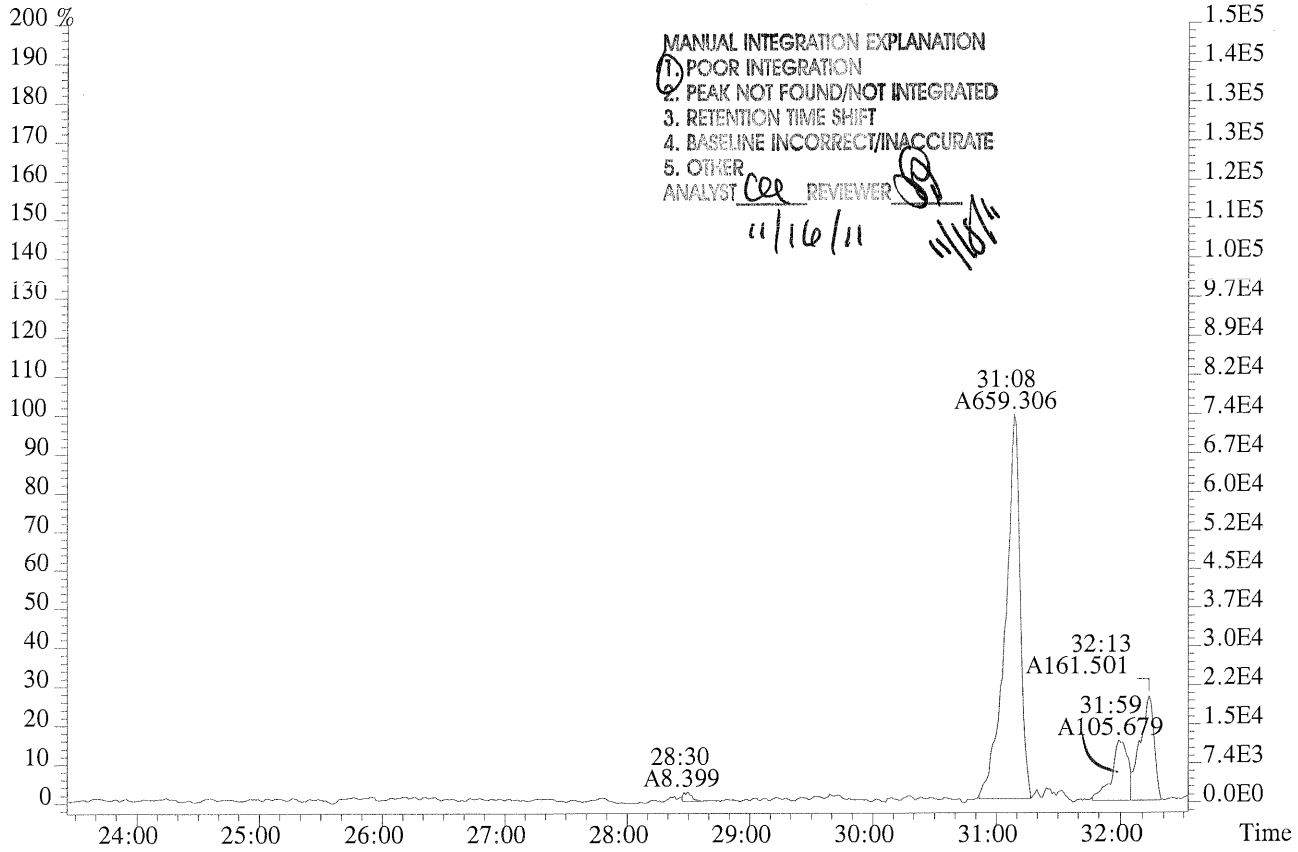
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0)

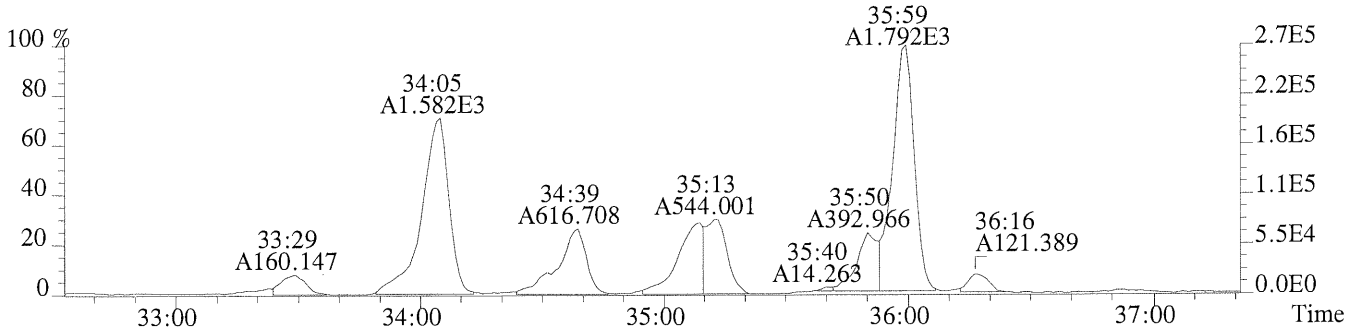


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0)

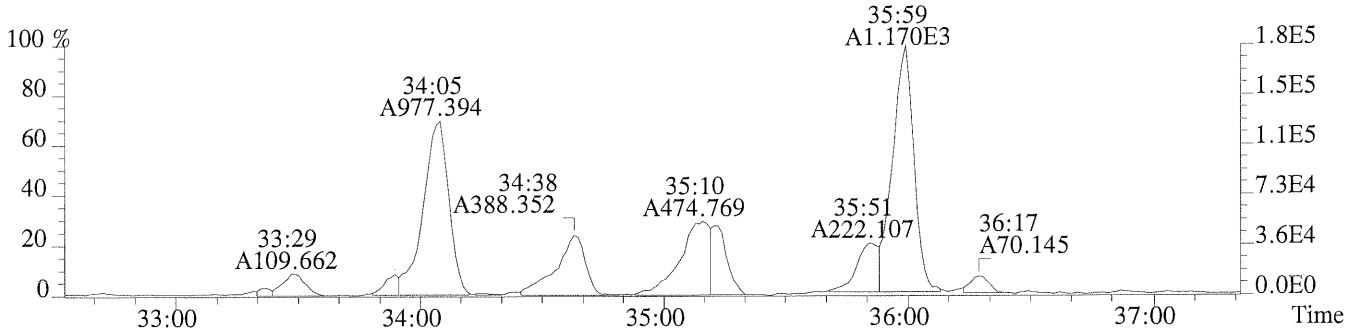


File:U142069 #1-308 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs

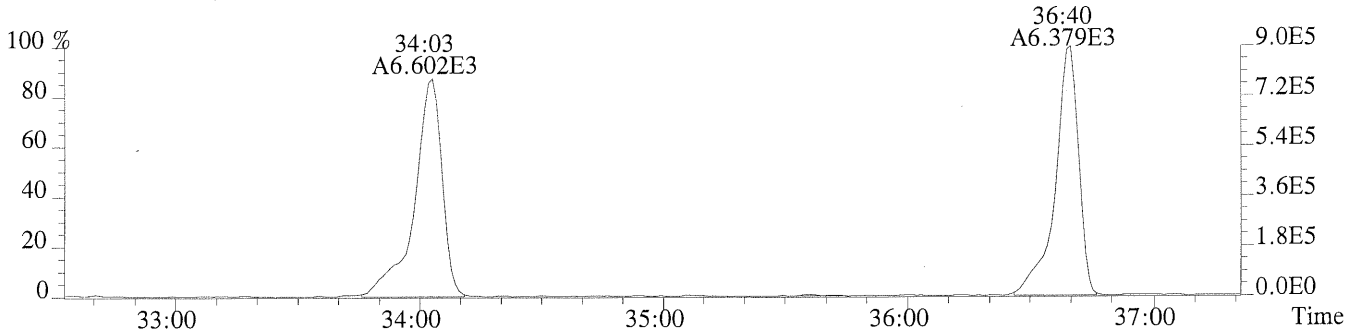
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2200.0,1.00%,F,T)



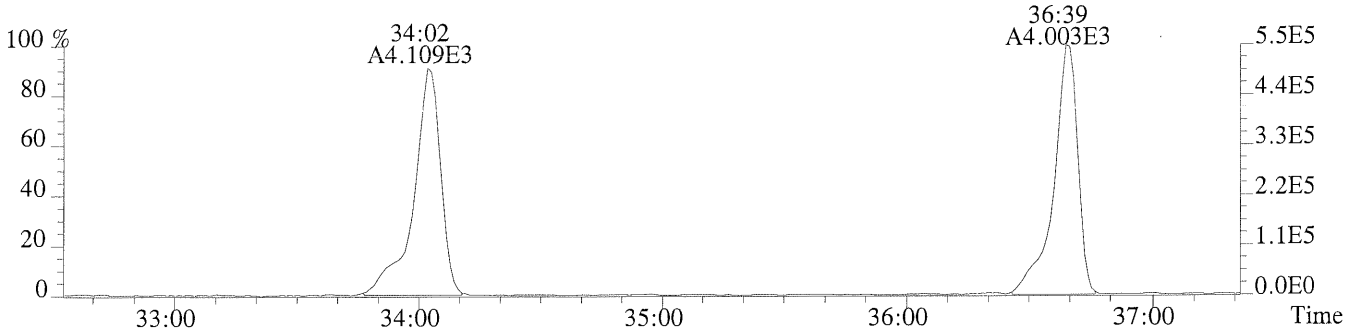
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1640.0,1.00%,F,T)



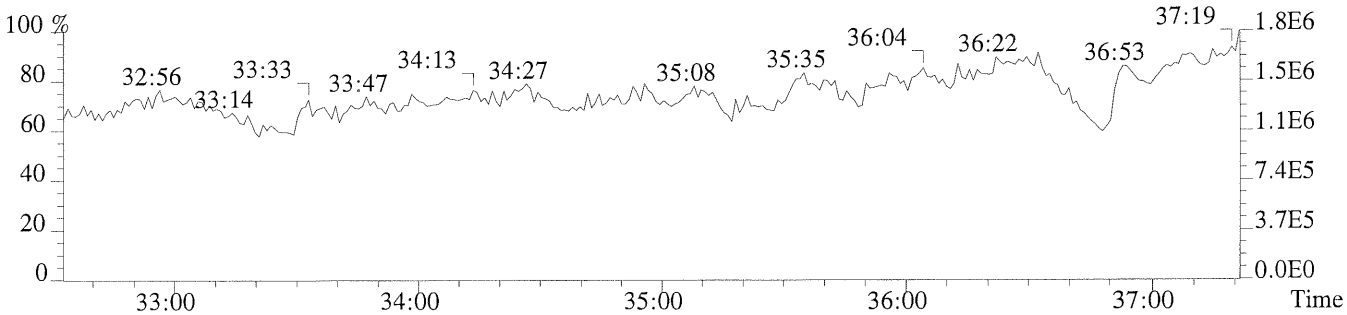
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3960.0,1.00%,F,T)



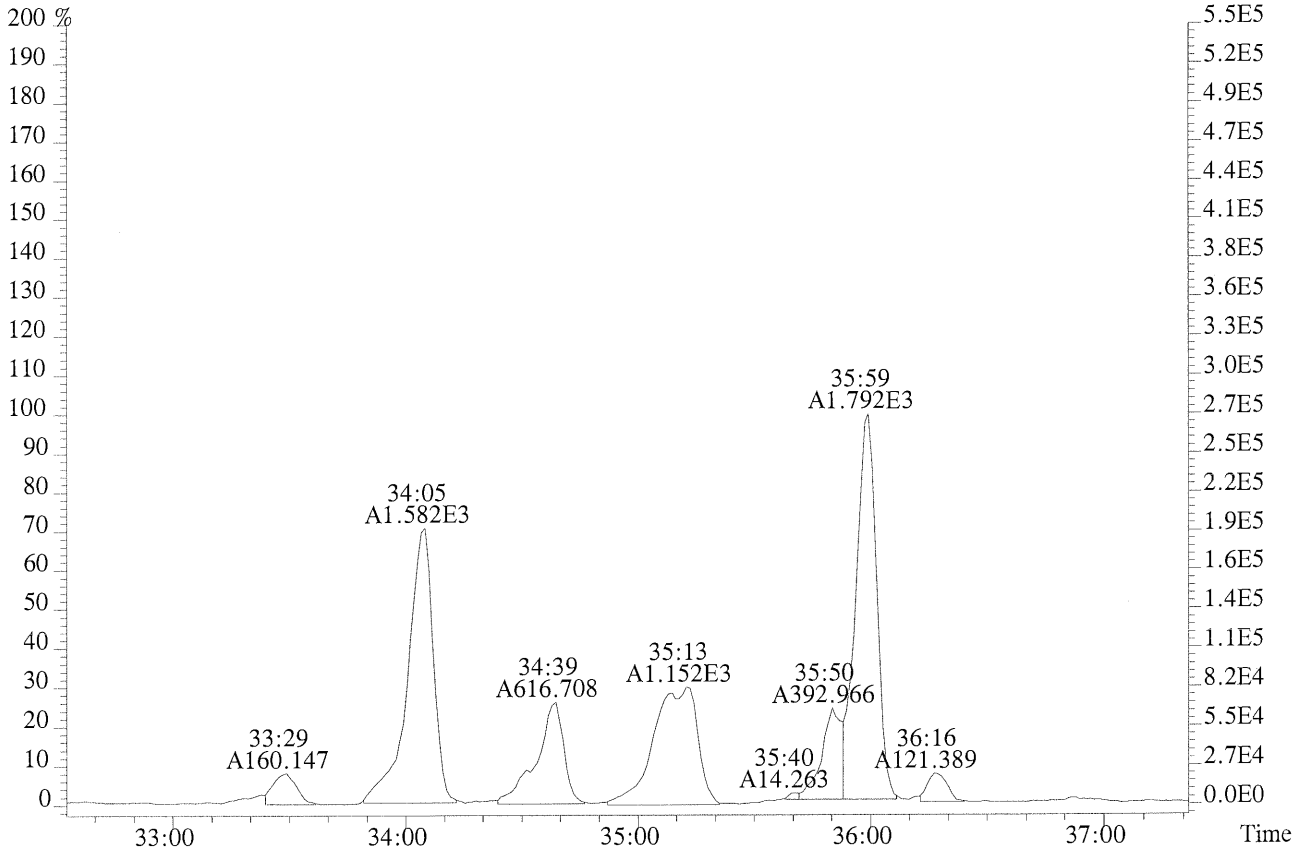
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3196.0,1.00%,F,T)



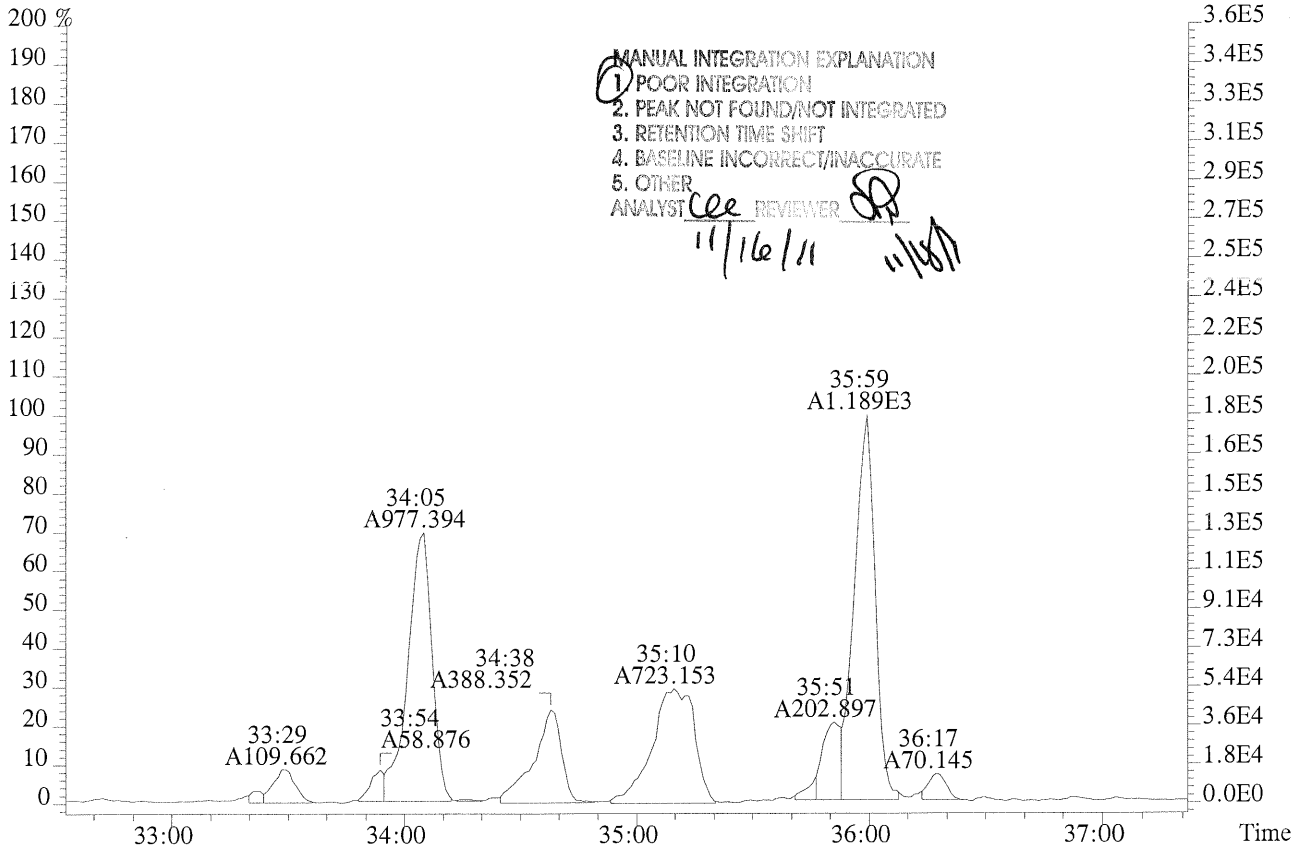
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142069 #1-308 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2200.0,1.00%,F,T)



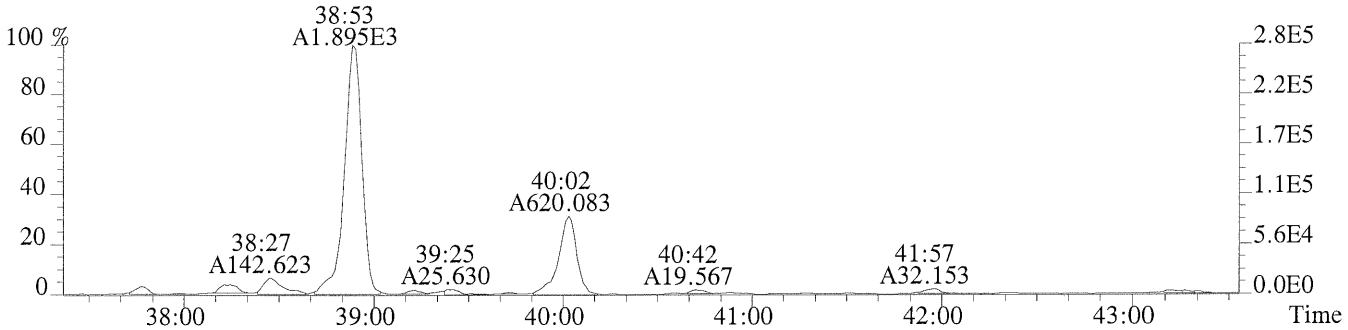
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1640.0,1.00%,F,T)



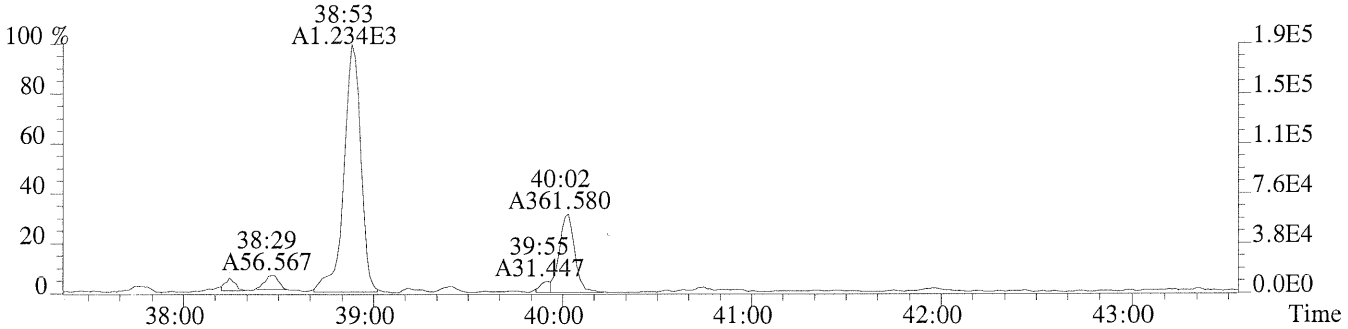
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Cee REVIEWER
11/16/11 11/18/11

File:U142069 #1-396 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs

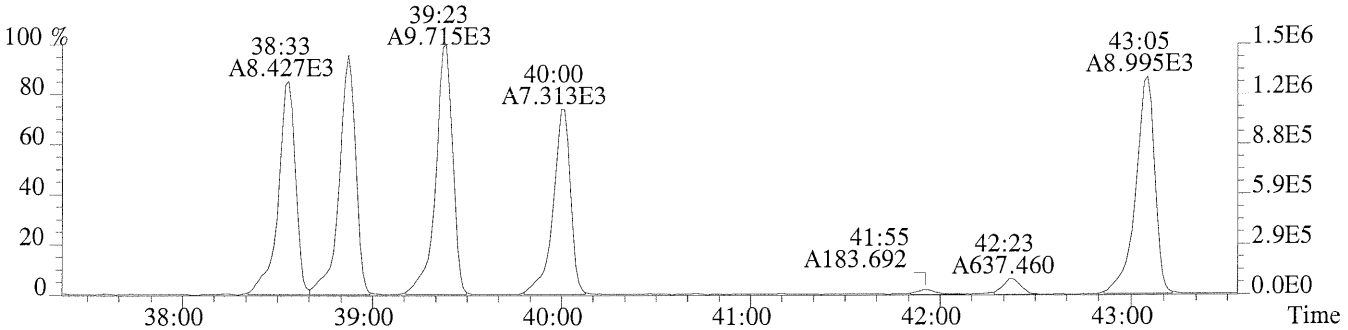
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



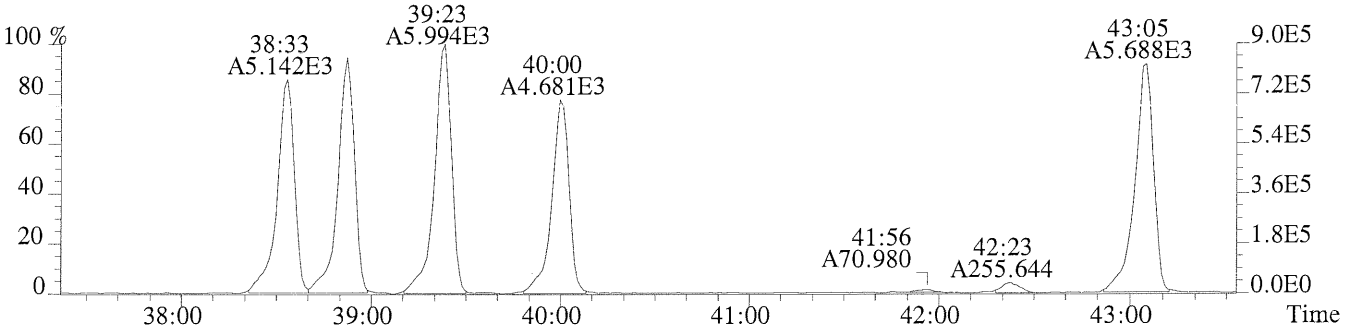
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2660.0,1.00%,F,T)



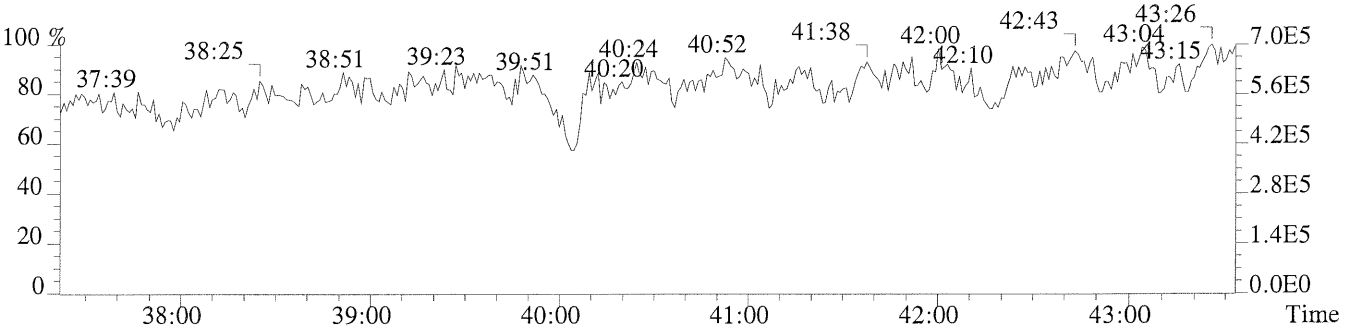
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4544.0,1.00%,F,T)



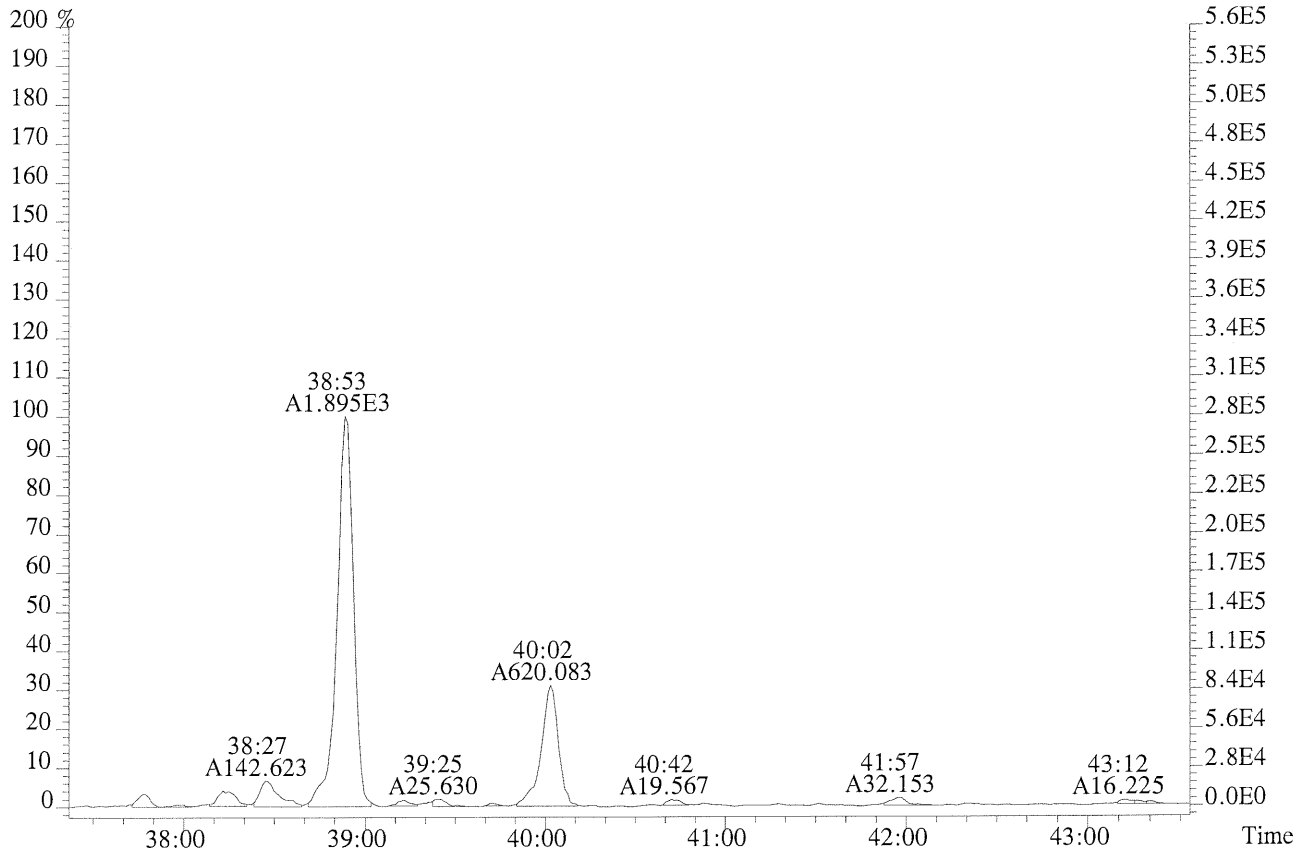
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4628.0,1.00%,F,T)



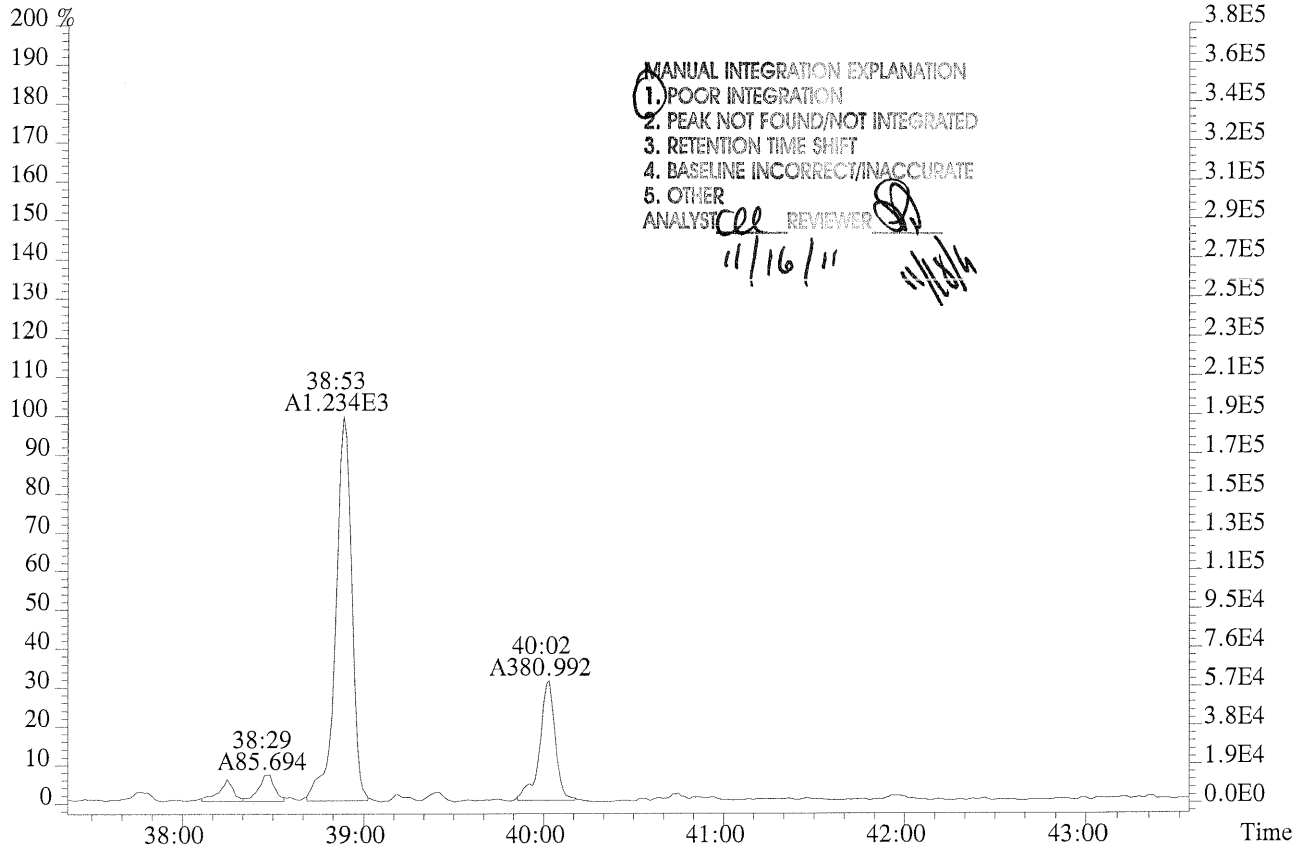
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142069 #1-396 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



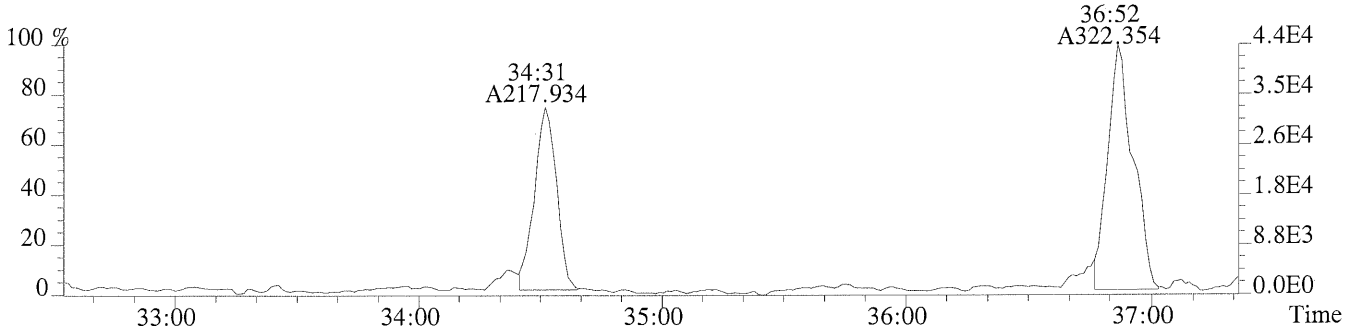
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2660.0,1.00%,F,T)



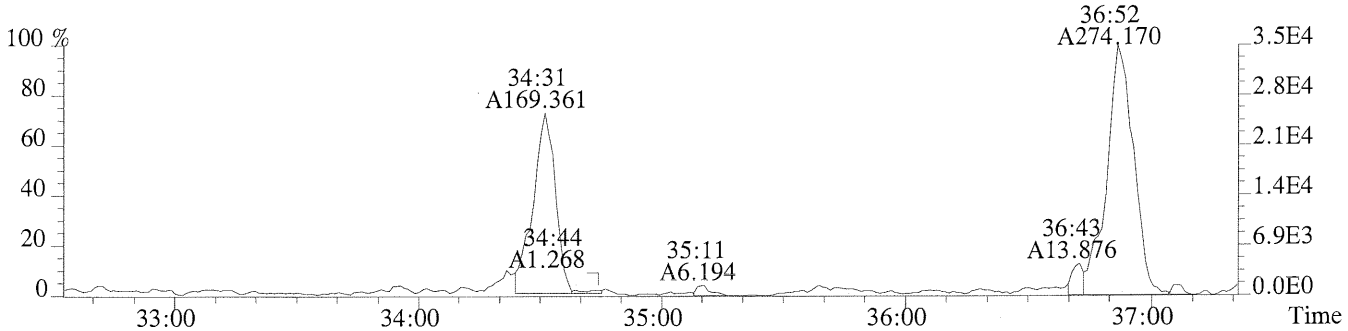
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Cel REVIEWER
11/16/11 11/18/11

File:U142069 #1-308 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs

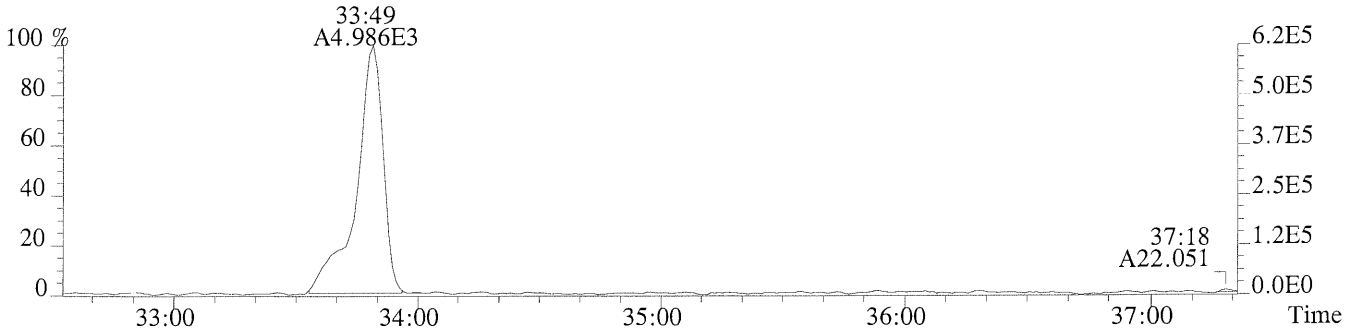
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1380.0,1.00%,F,T)



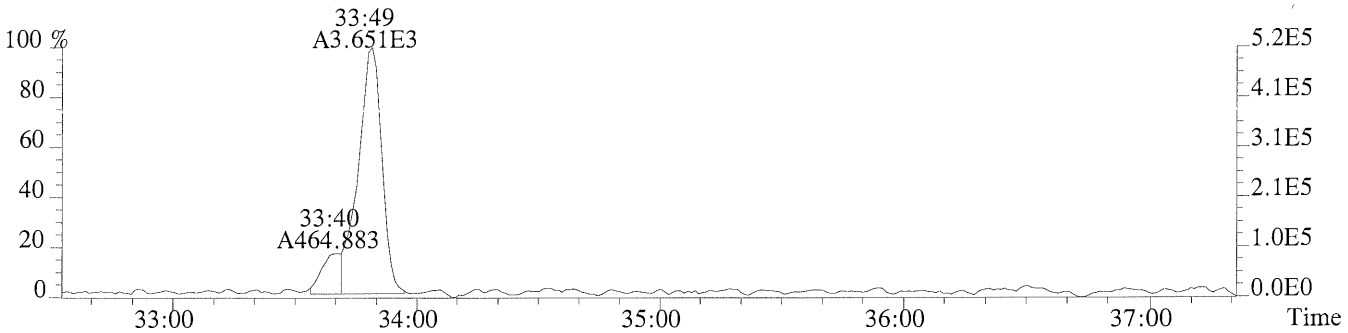
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



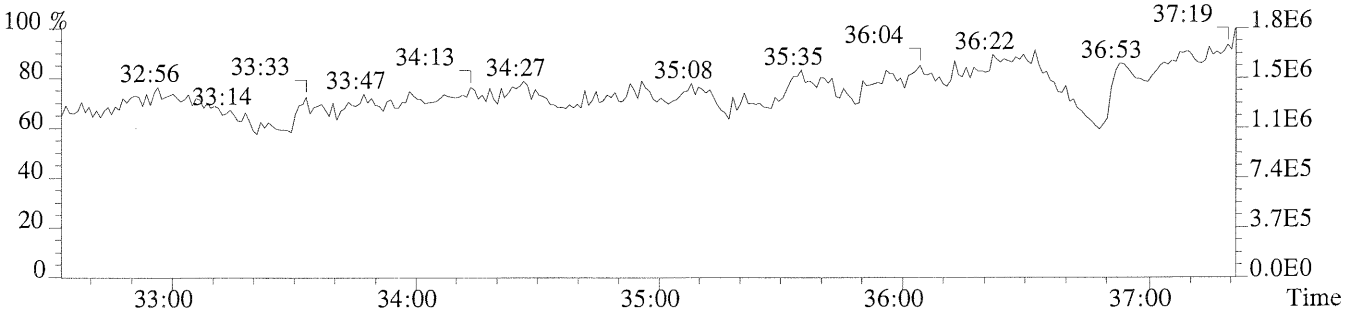
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7336.0,1.00%,F,T)



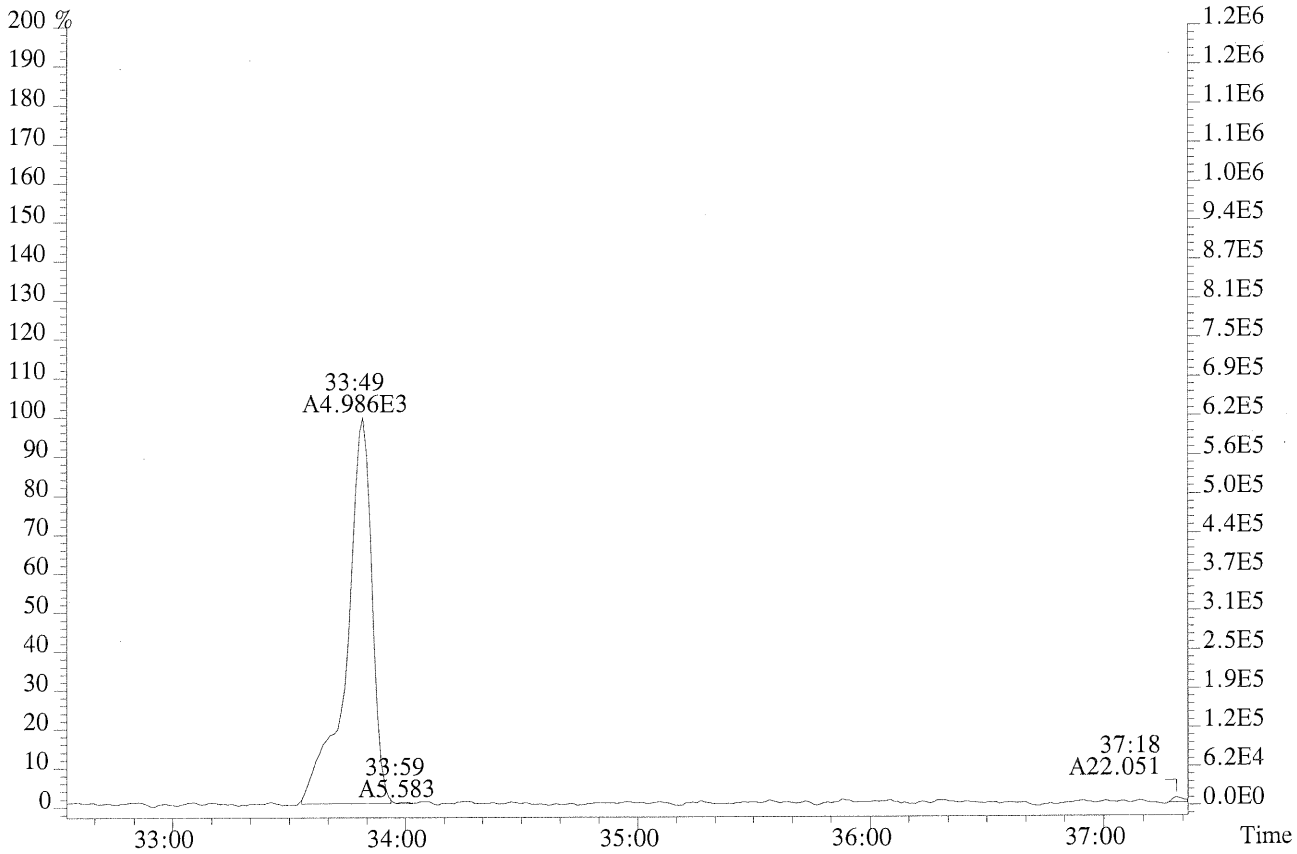
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14928.0,1.00%,F,T)



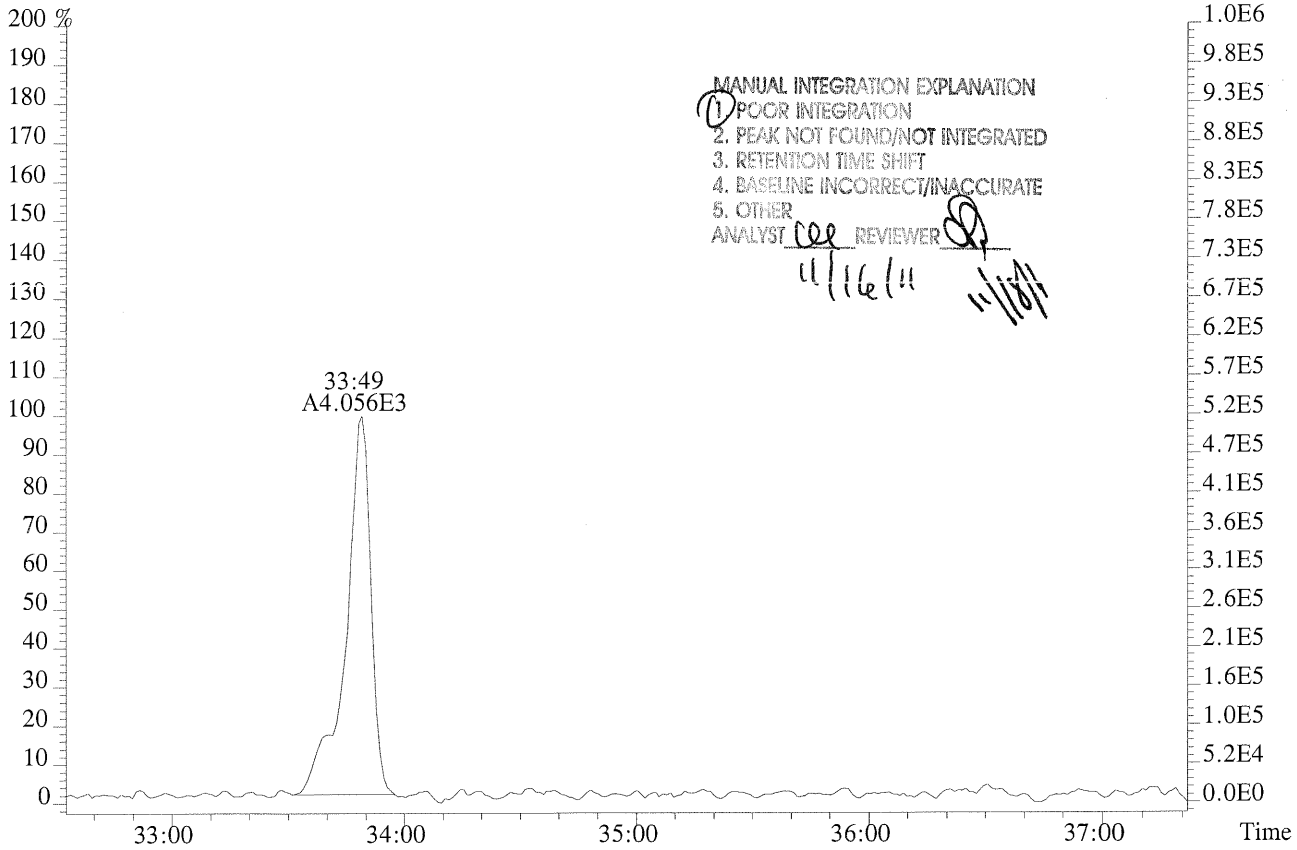
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142069 #1-308 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7336.0,1.00%,F,T)

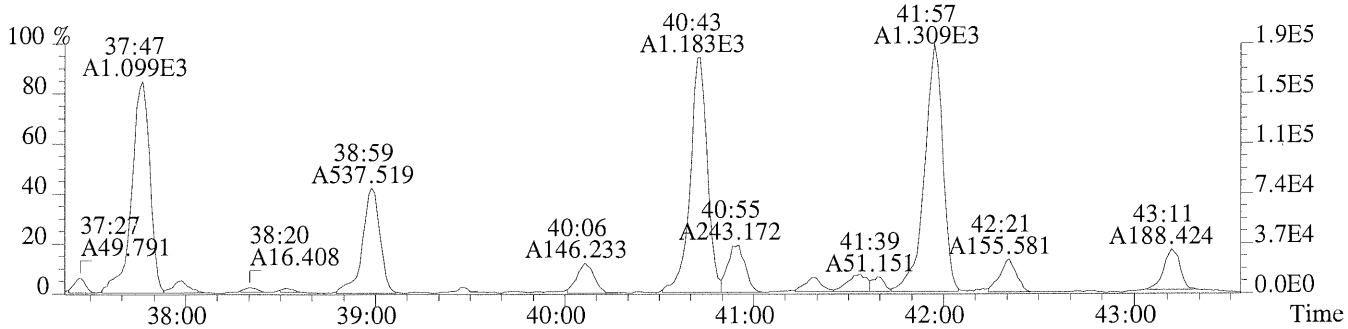


373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14928.0,1.00%,F,T)

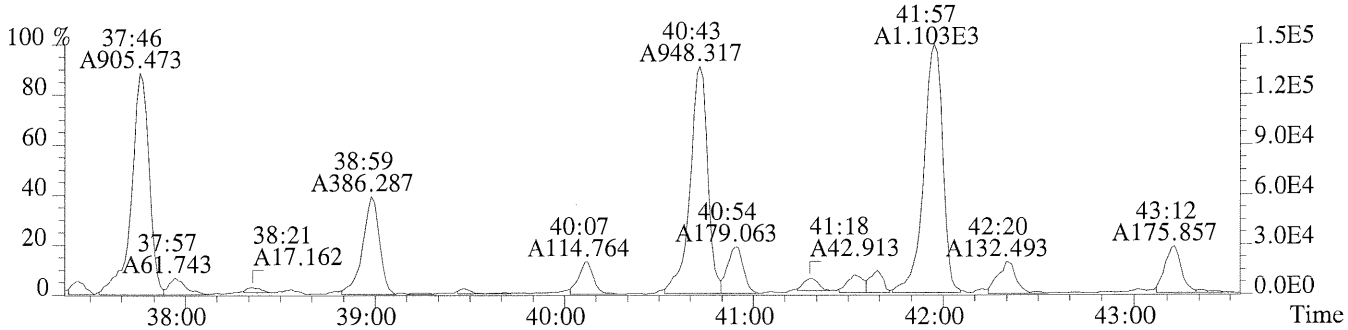


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CEE REVIEWER
11/16/11 11/18/11

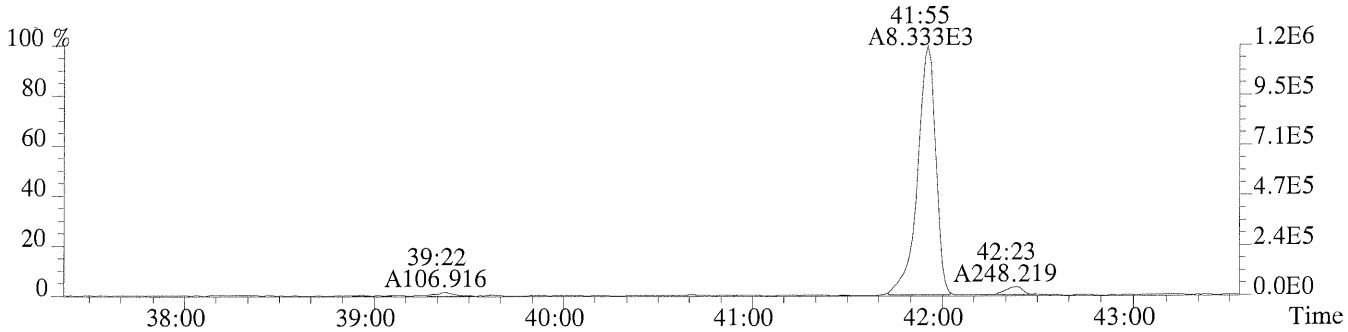
File:U142069 #1-396 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1404.0,1.00%,F,T)



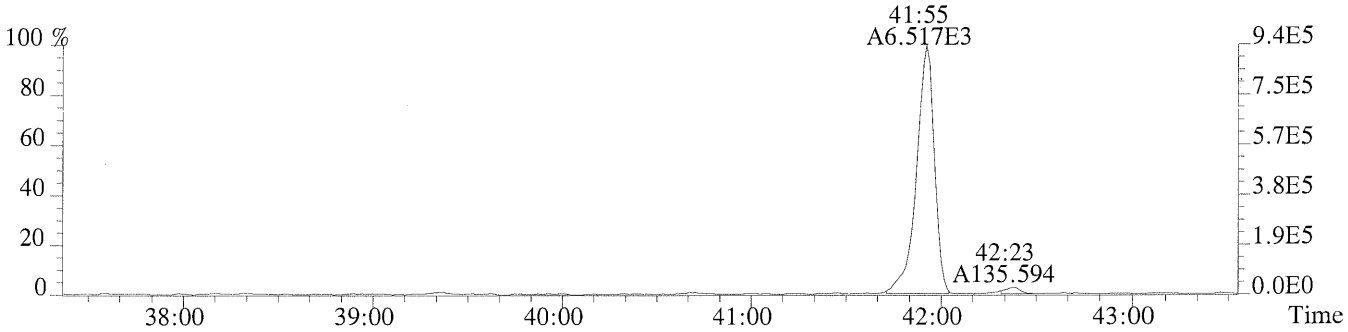
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1464.0,1.00%,F,T)



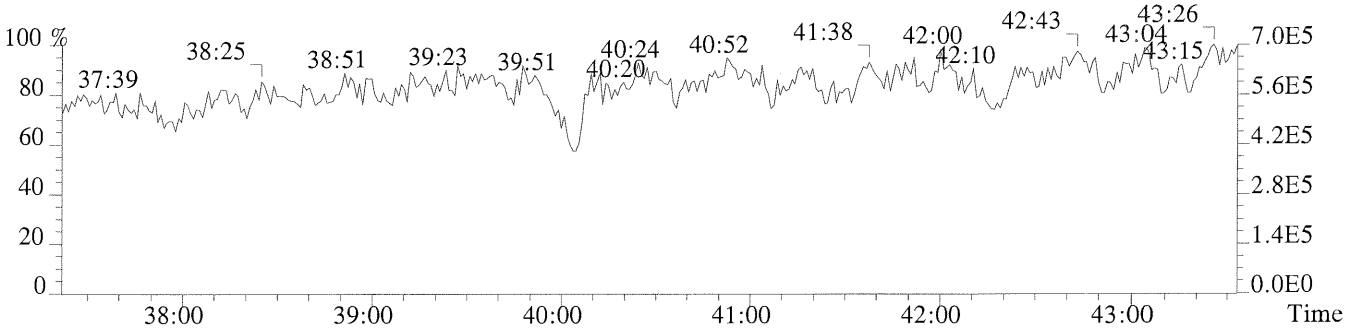
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2308.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5108.0,1.00%,F,T)

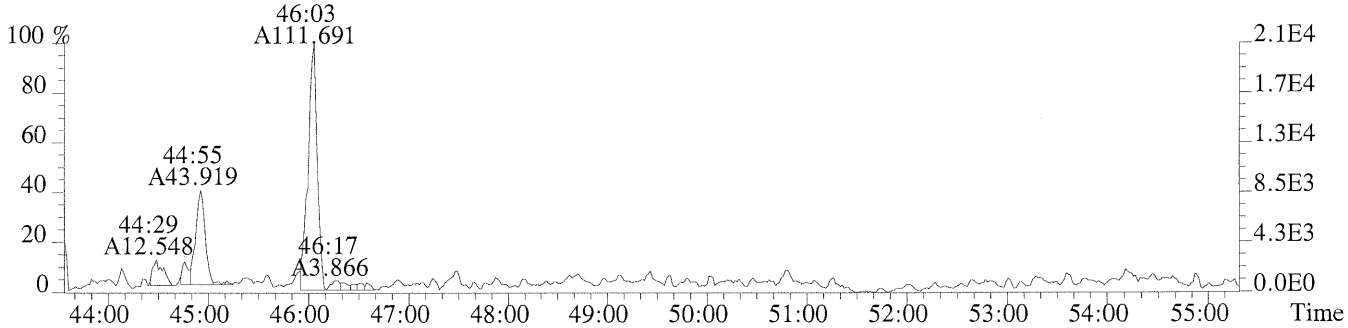


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

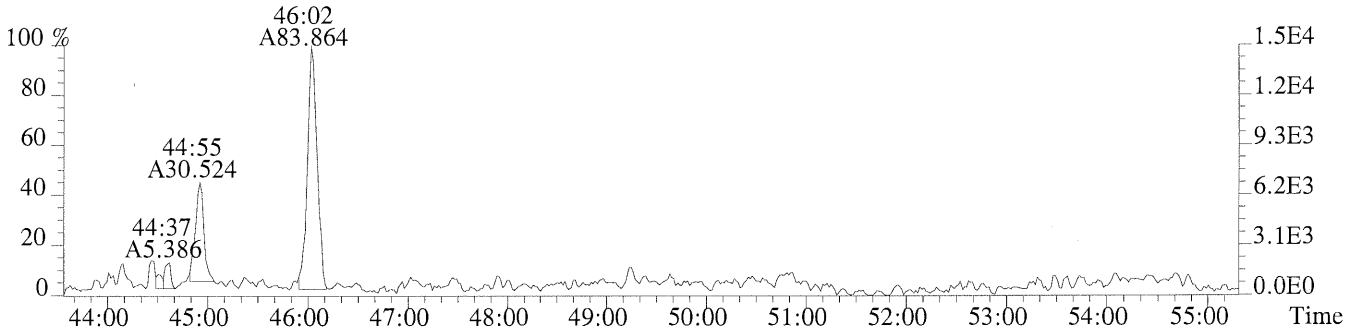


File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs

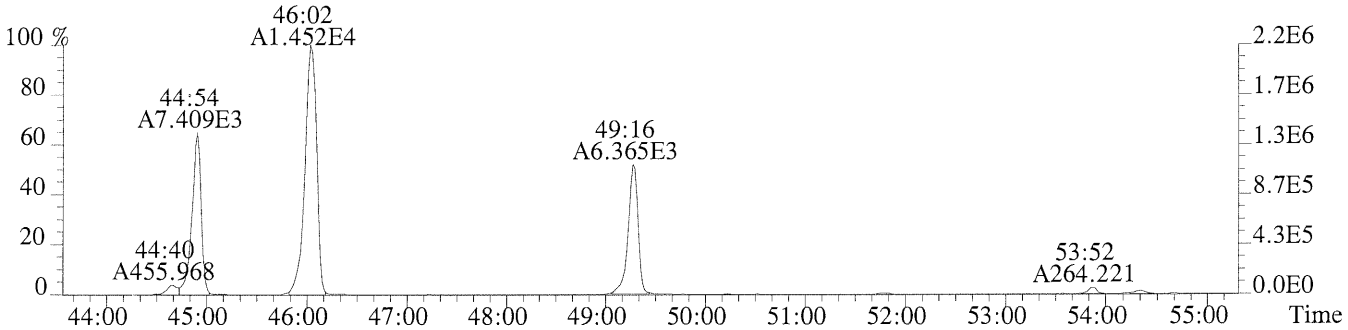
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,980.0,1.00%,F,T)



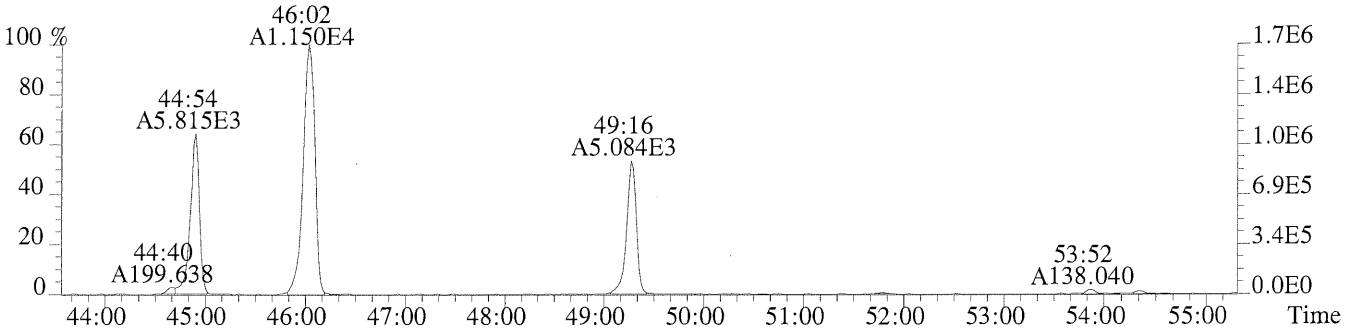
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)



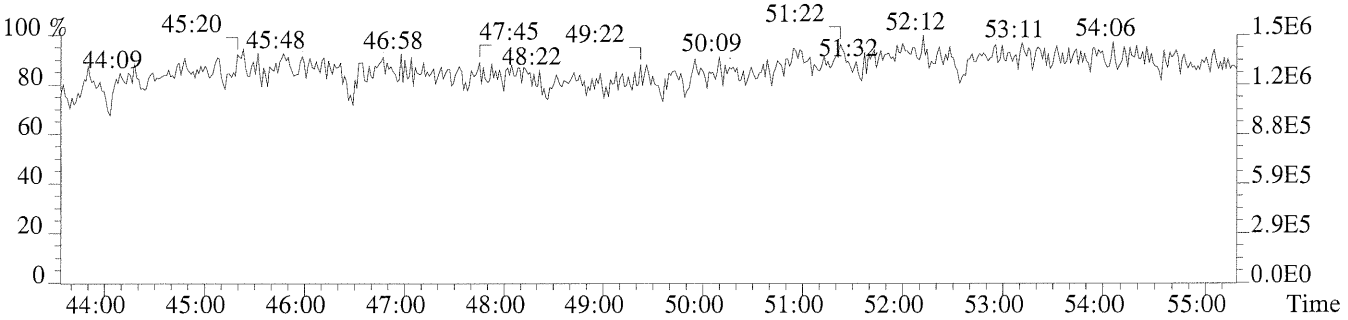
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1732.0,1.00%,F,T)



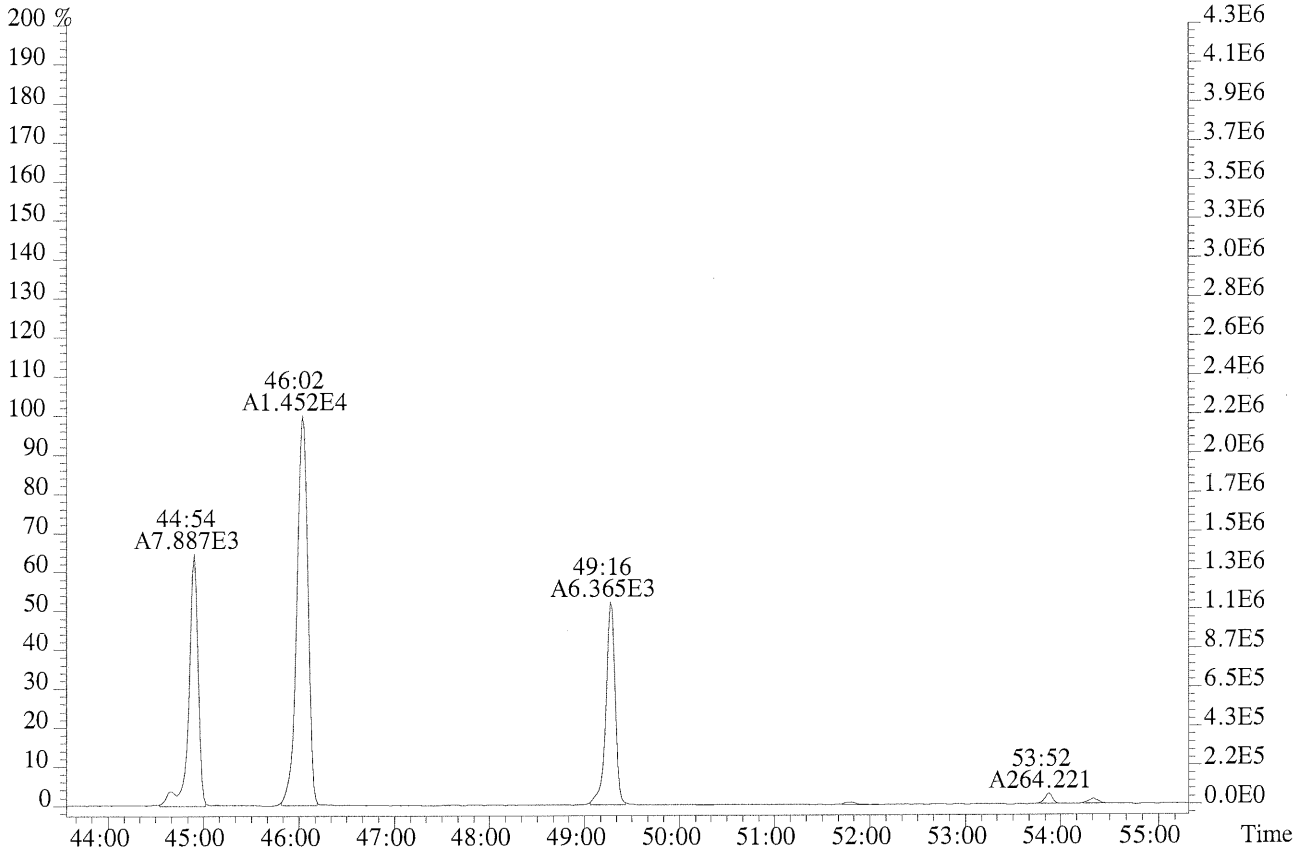
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2464.0,1.00%,F,T)



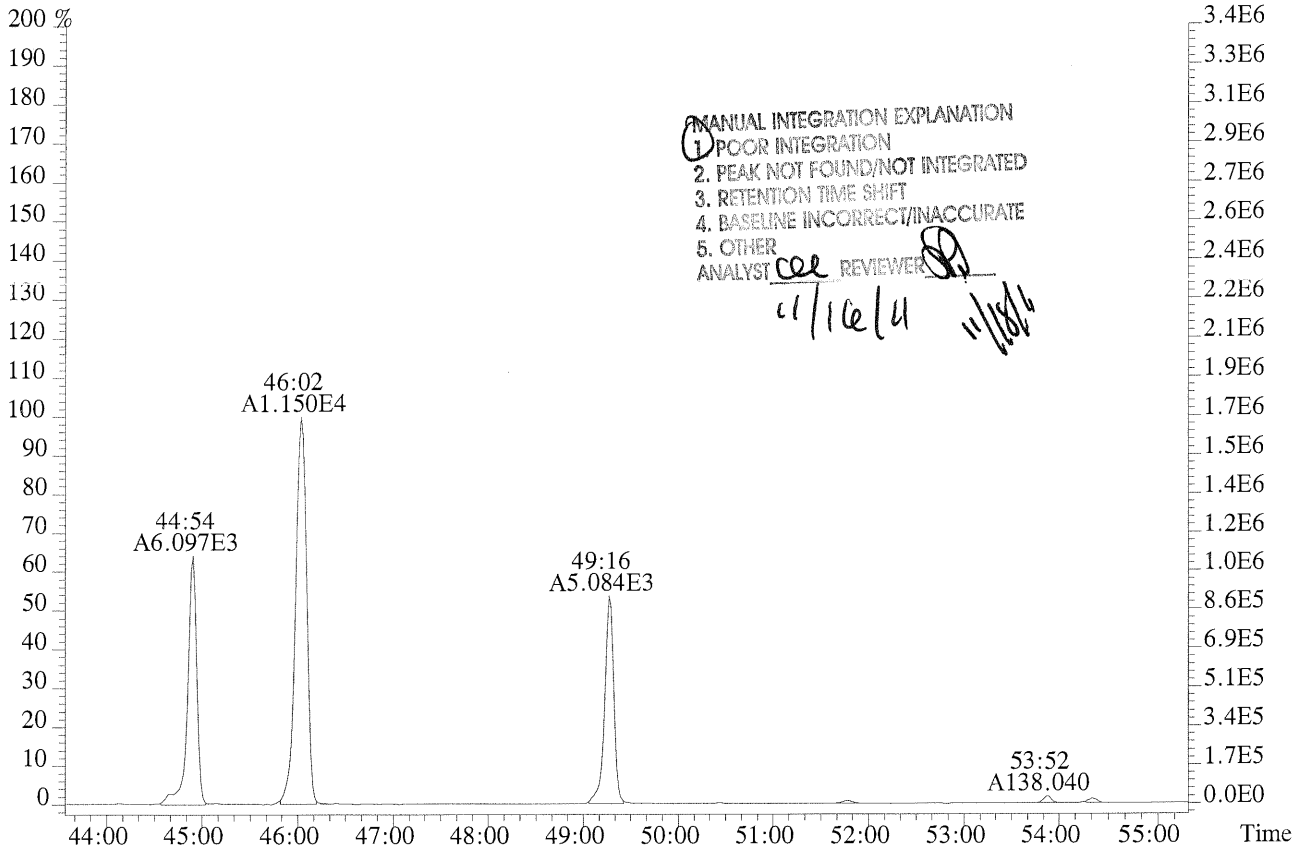
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1732.0,1.00%,F,T)



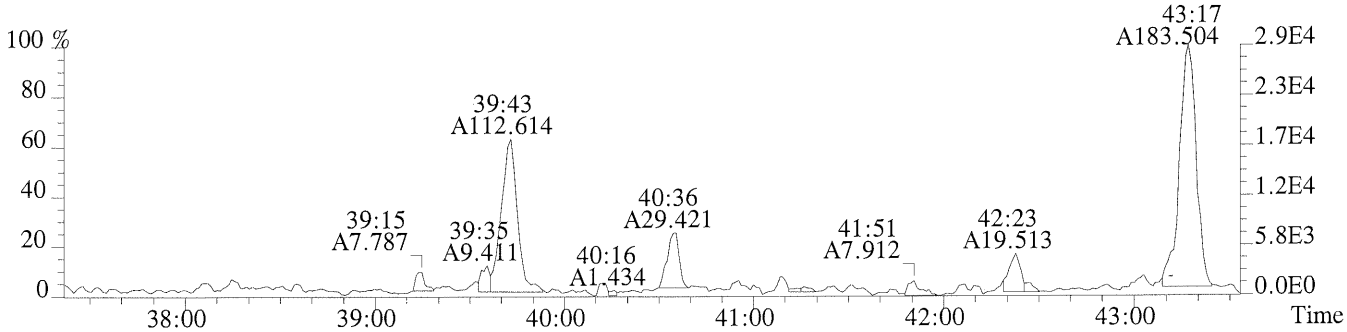
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2464.0,1.00%,F,T)



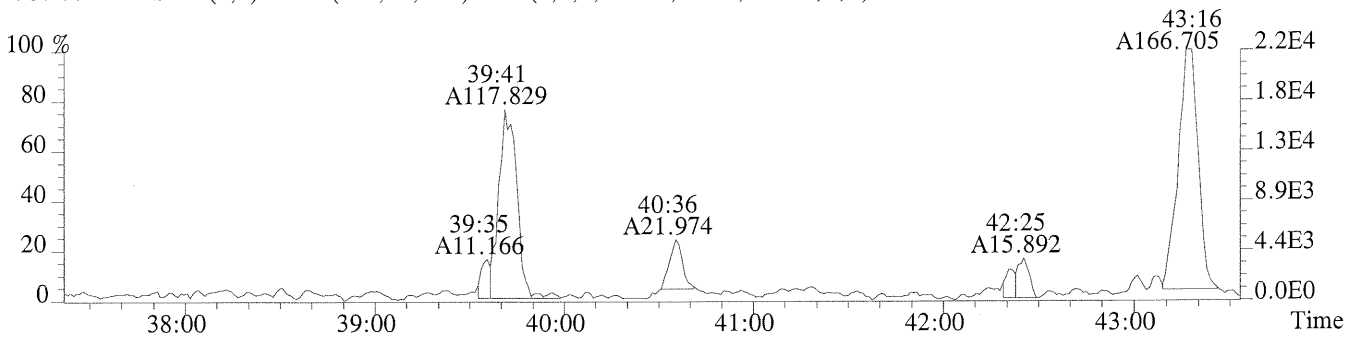
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST CCL REVIEWER
11/16/11 11/18/11

File:U142069 #1-396 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs

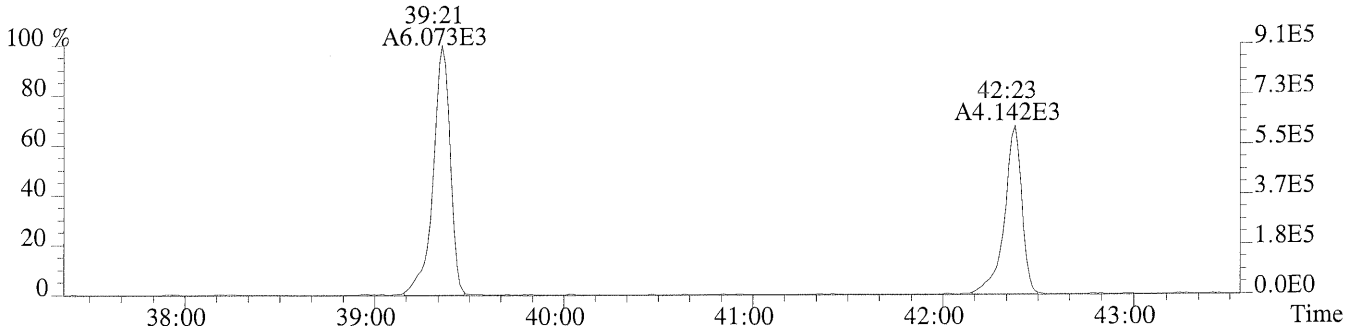
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)



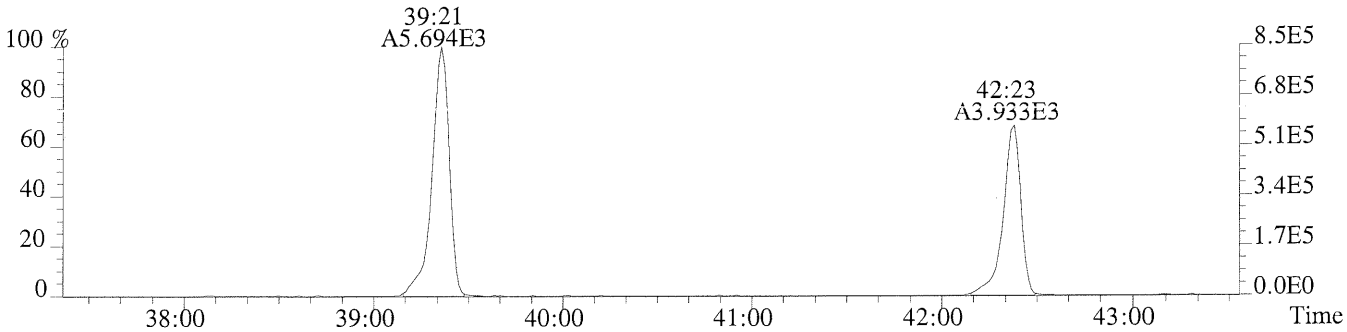
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)



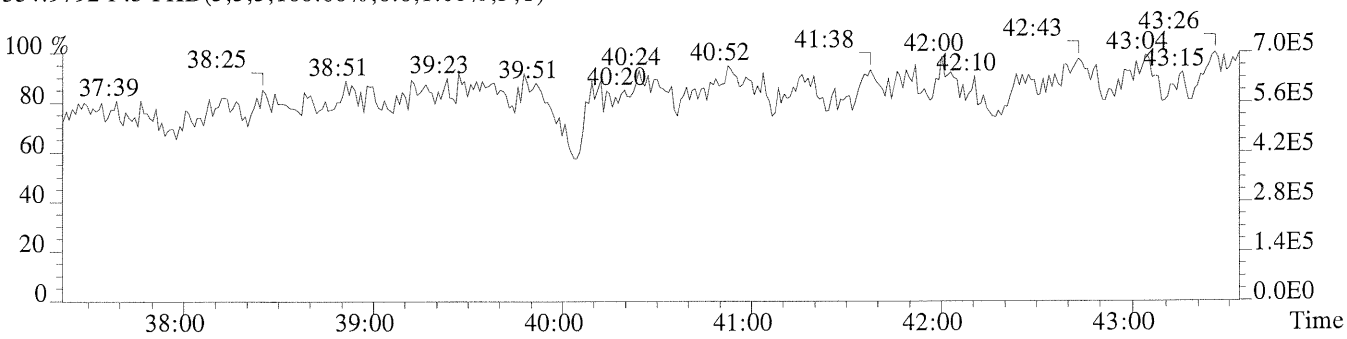
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



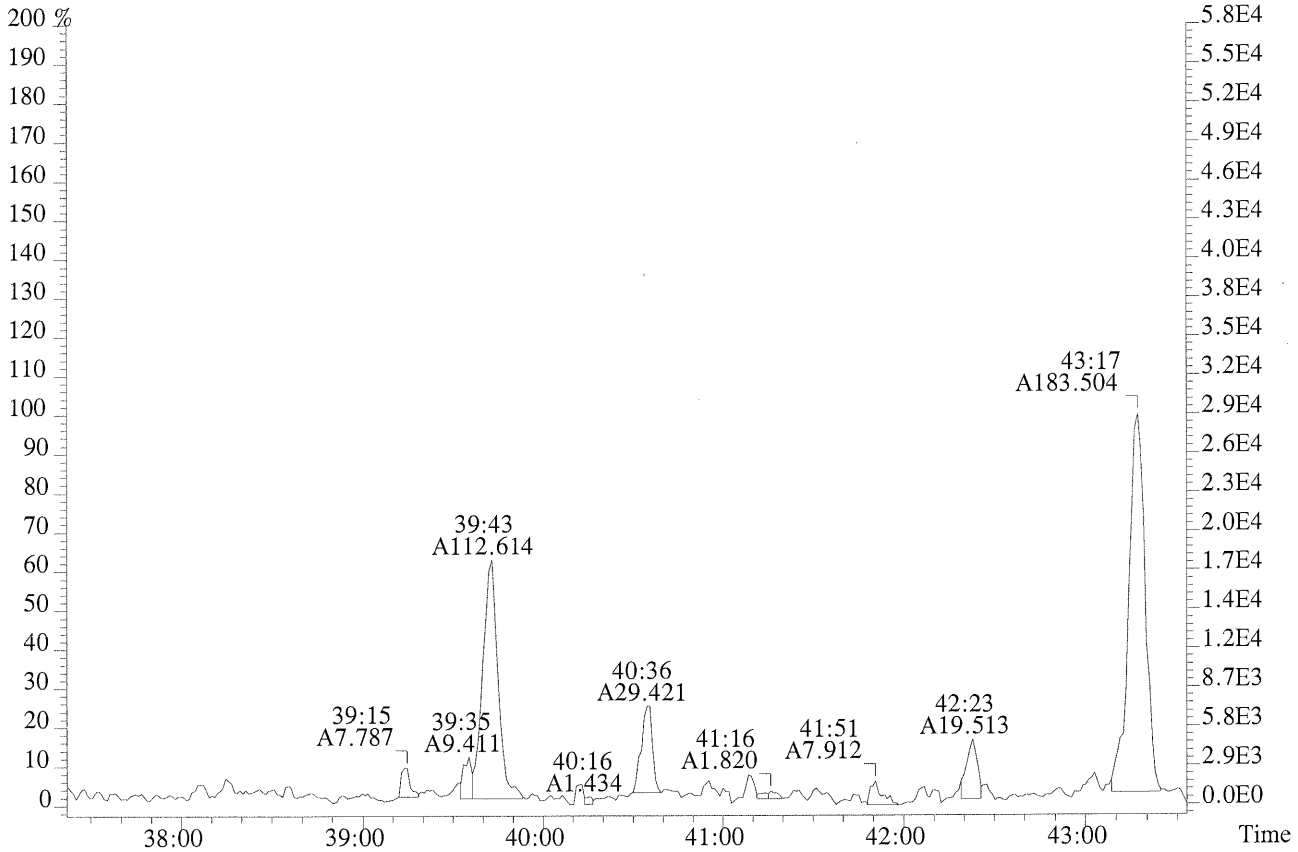
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,912.0,1.00%,F,T)



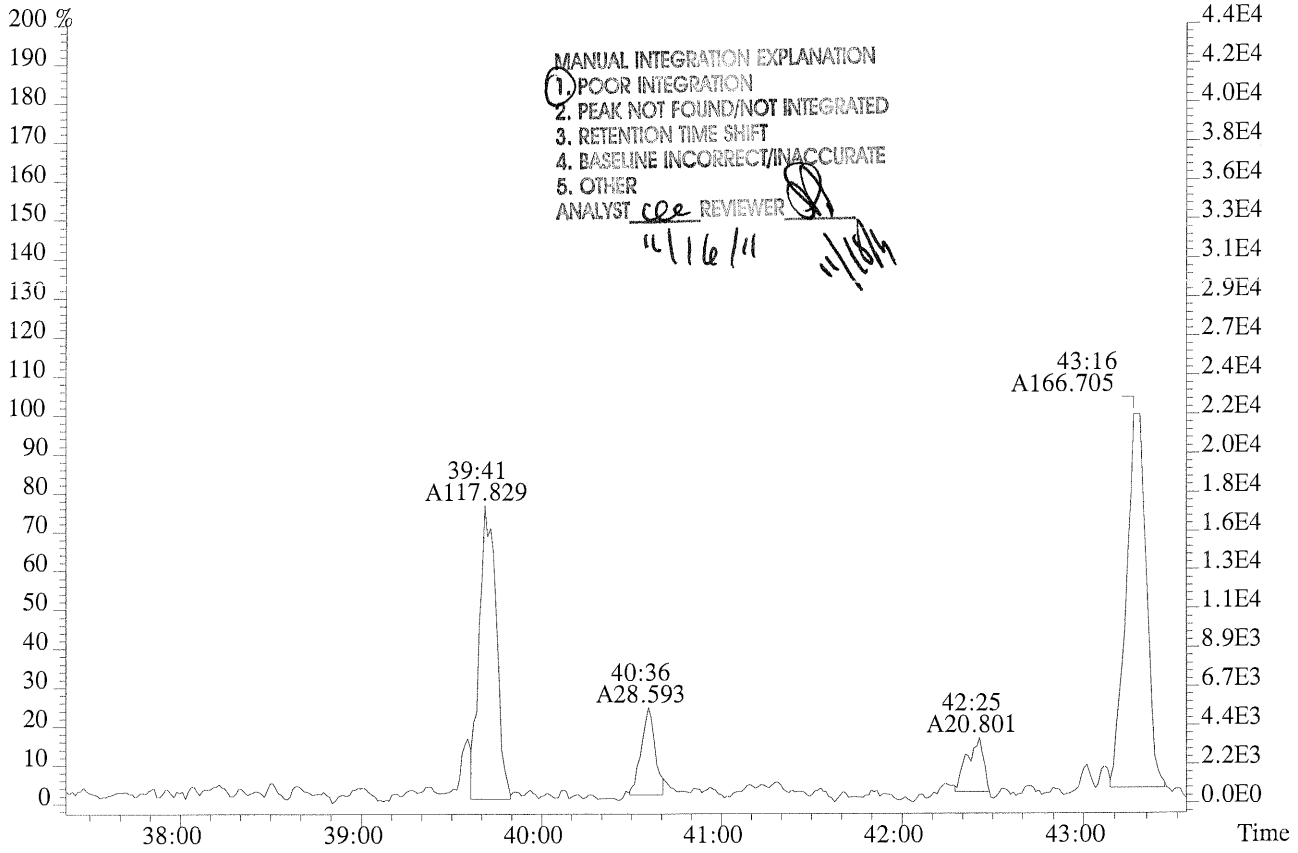
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142069 #1-396 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)

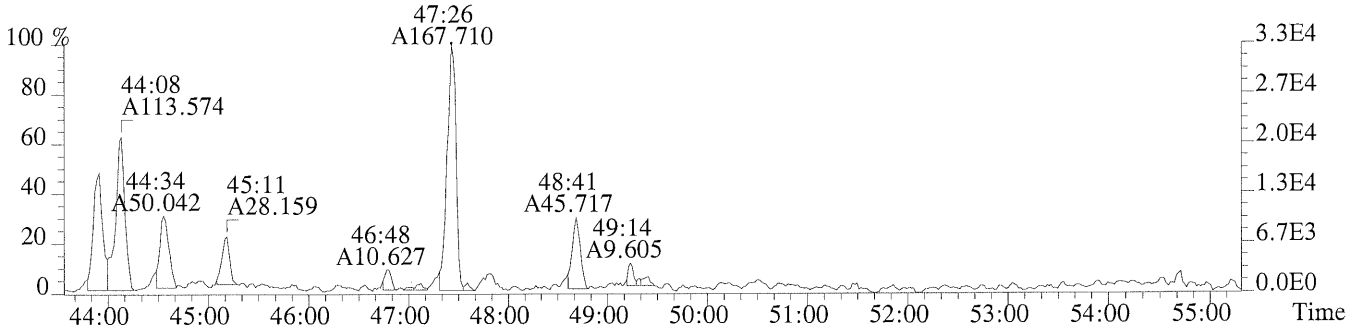


395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)

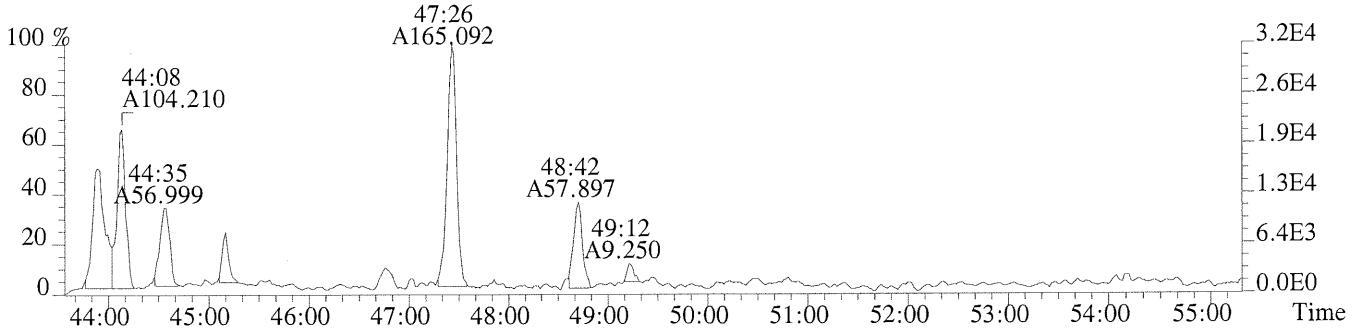


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER
11/16/11 11/18/11

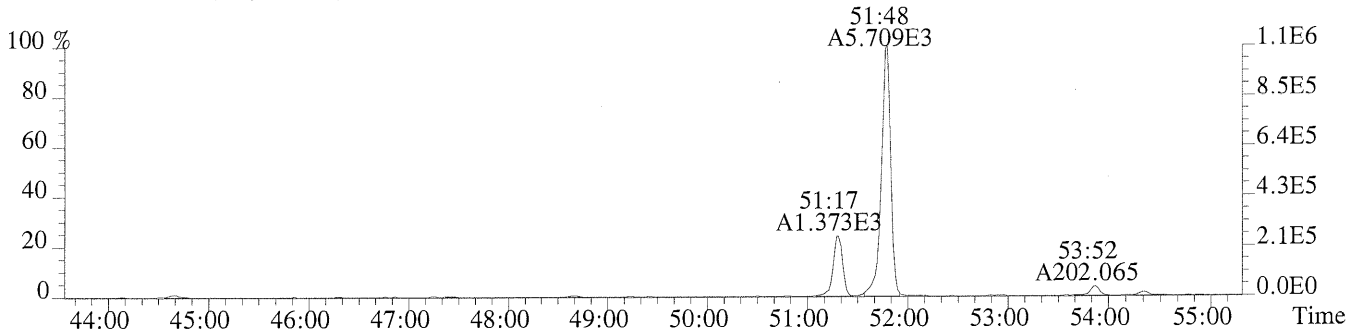
File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1088.0,1.00%,F,T)



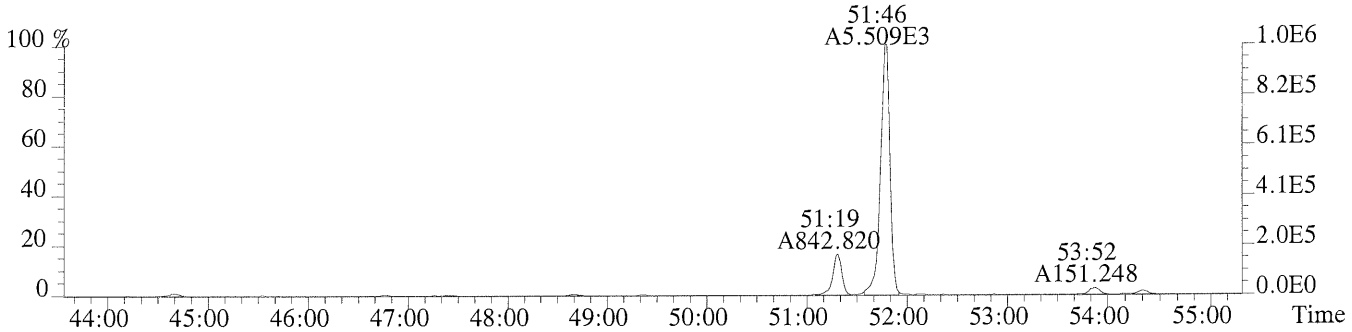
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1516.0,1.00%,F,T)



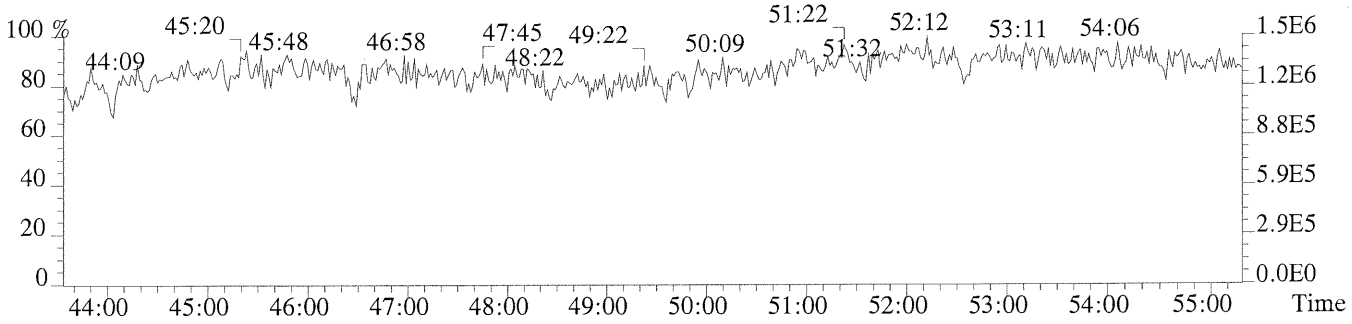
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1068.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)

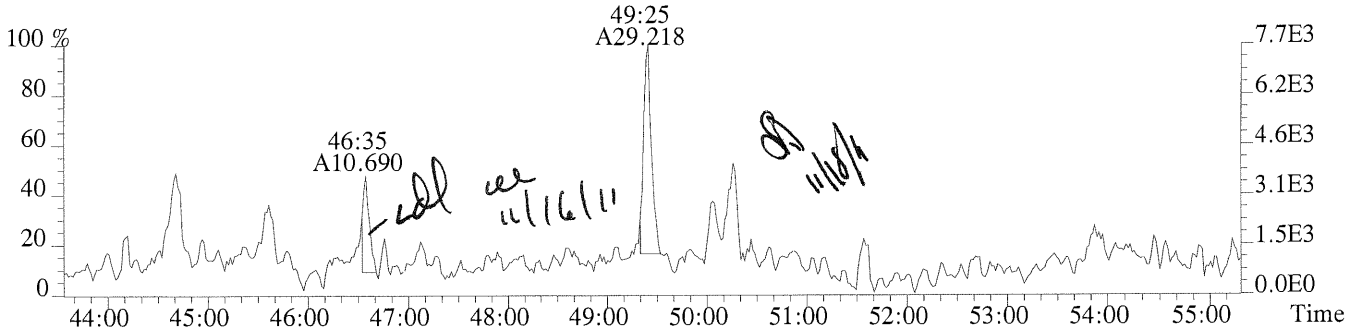


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

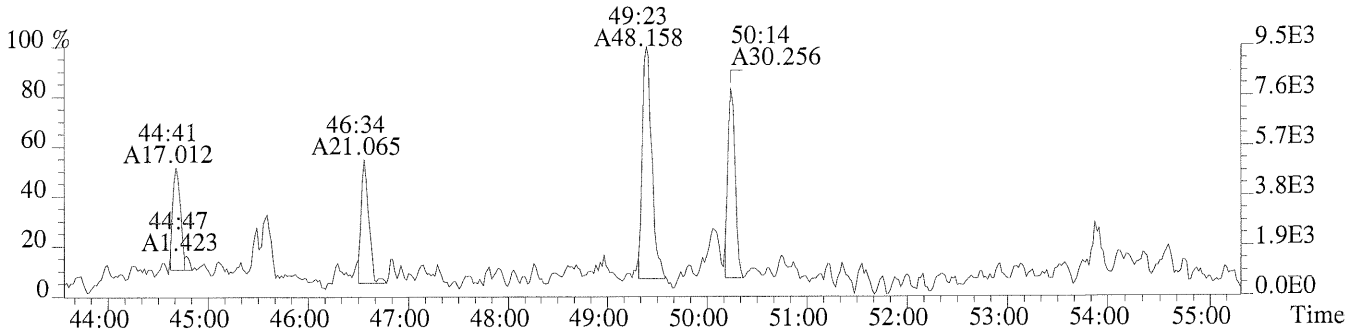


File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs

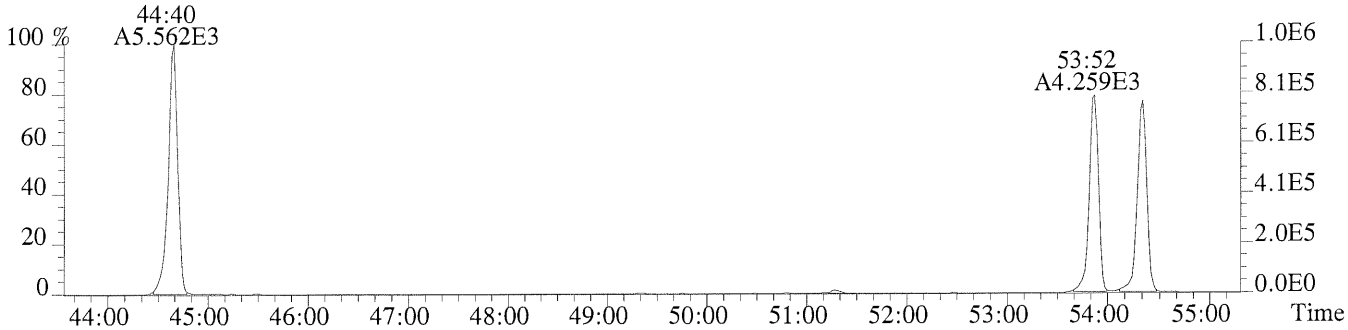
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1332.0,1.00%,F,T)



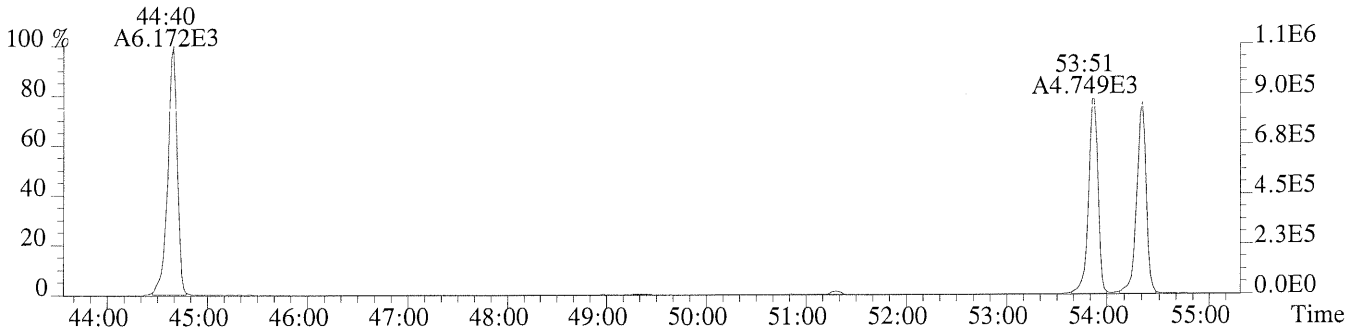
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



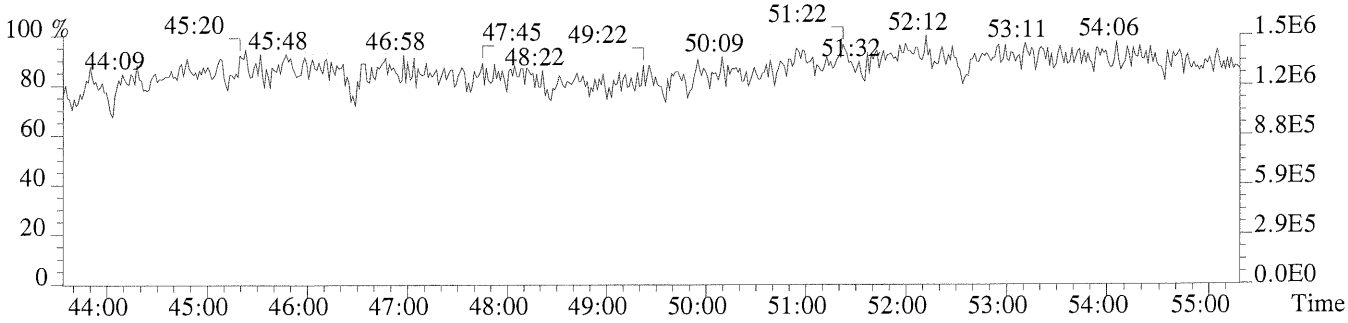
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,848.0,1.00%,F,T)



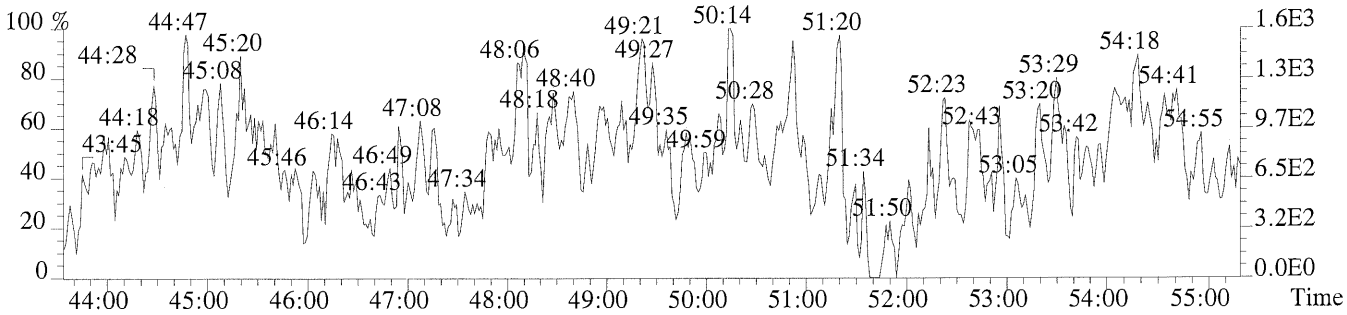
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



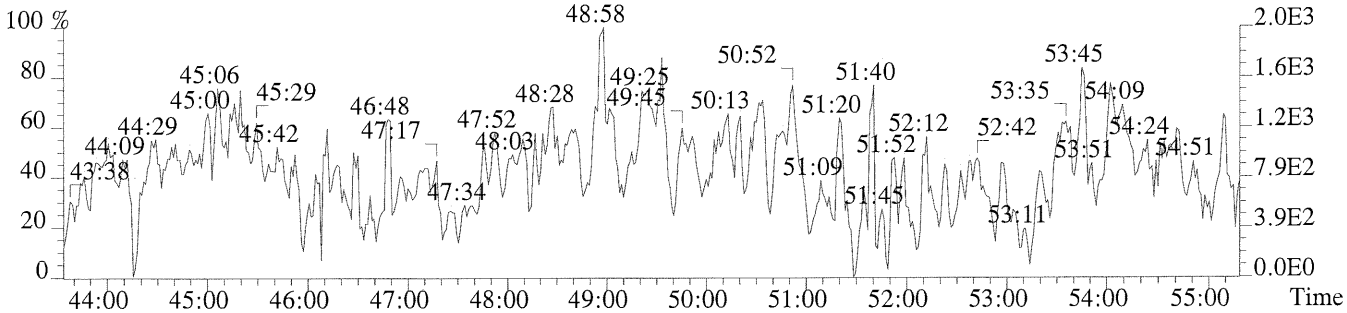
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



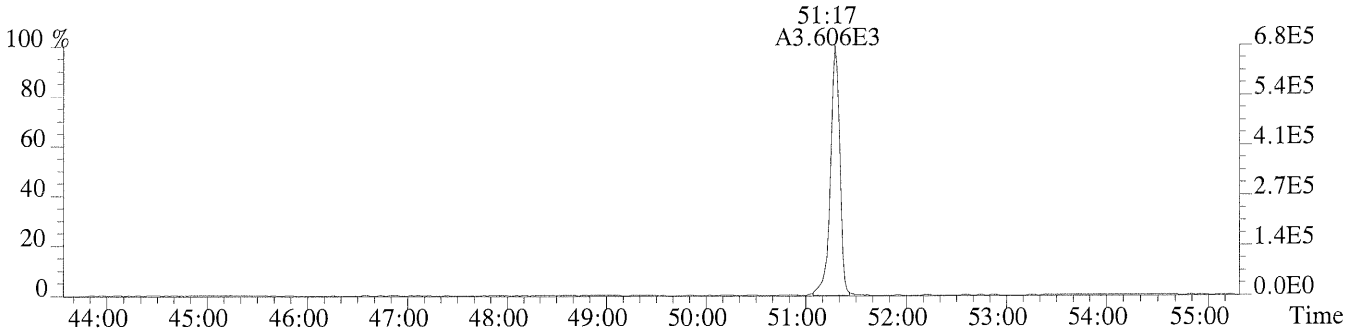
File:U142069 #1-582 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,996.0,1.00%,F,T)



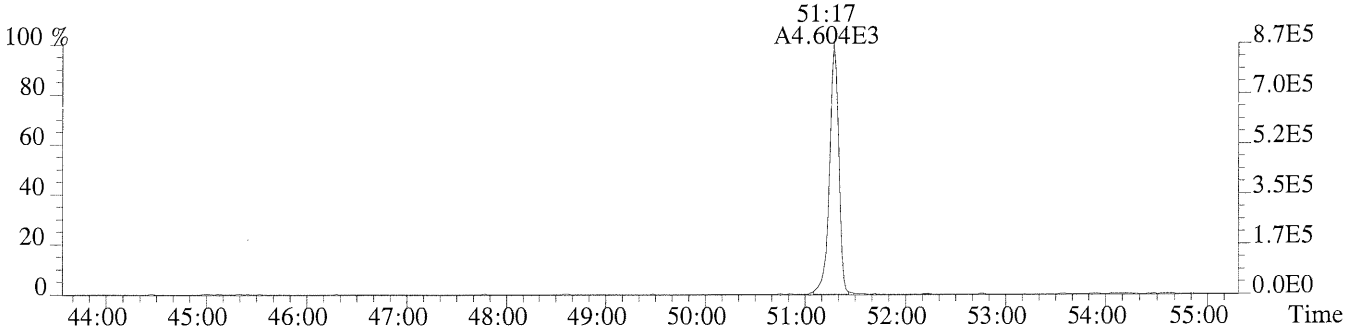
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1096.0,1.00%,F,T)



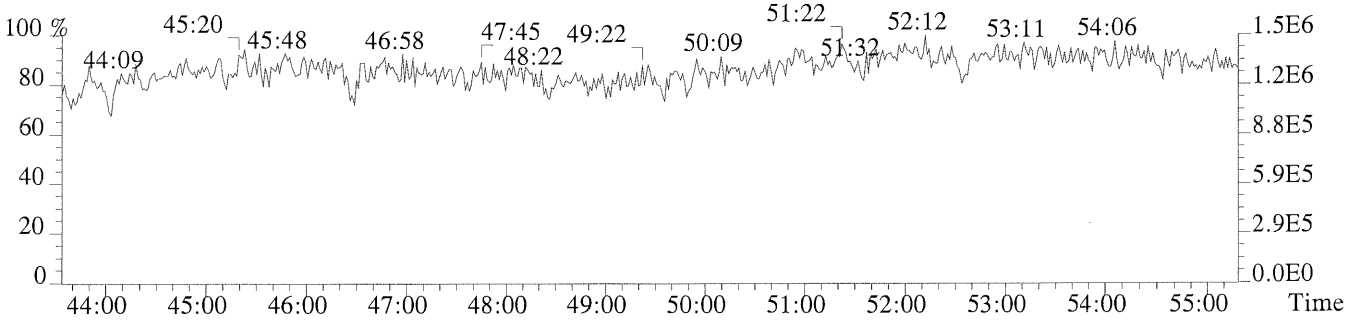
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1184.0,1.00%,F,T)



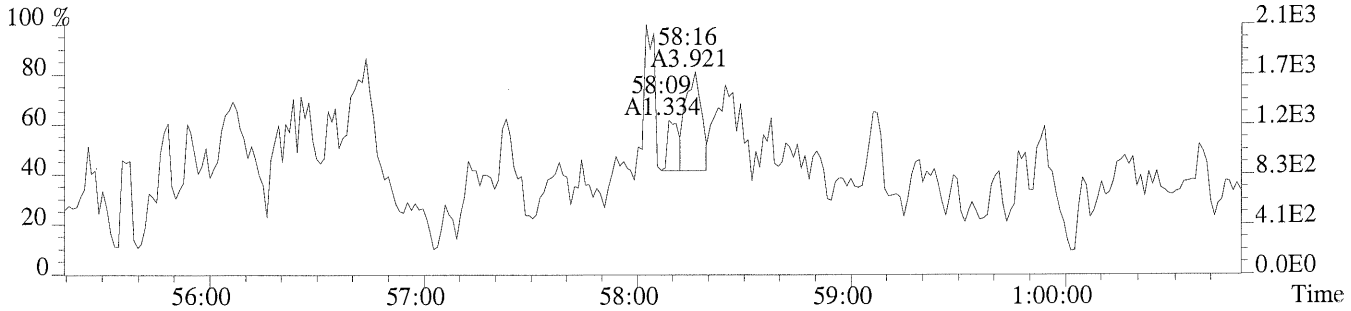
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1060.0,1.00%,F,T)



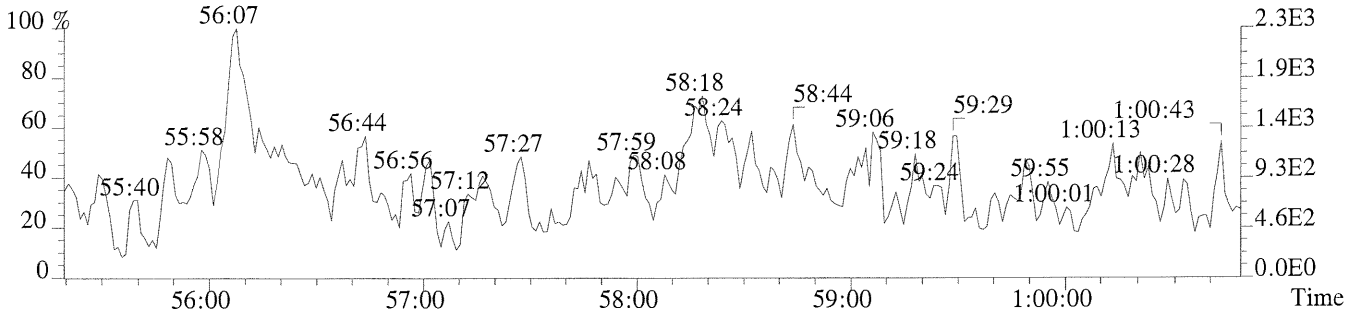
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



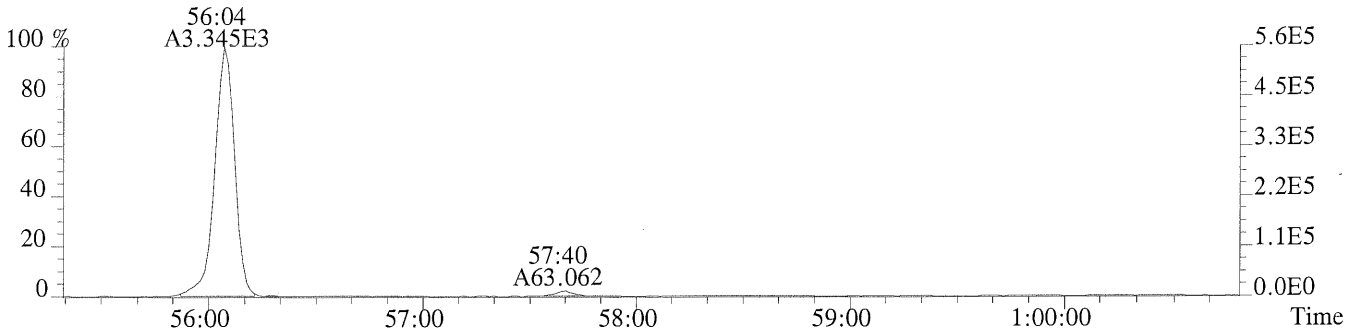
File:U142069 #1-310 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



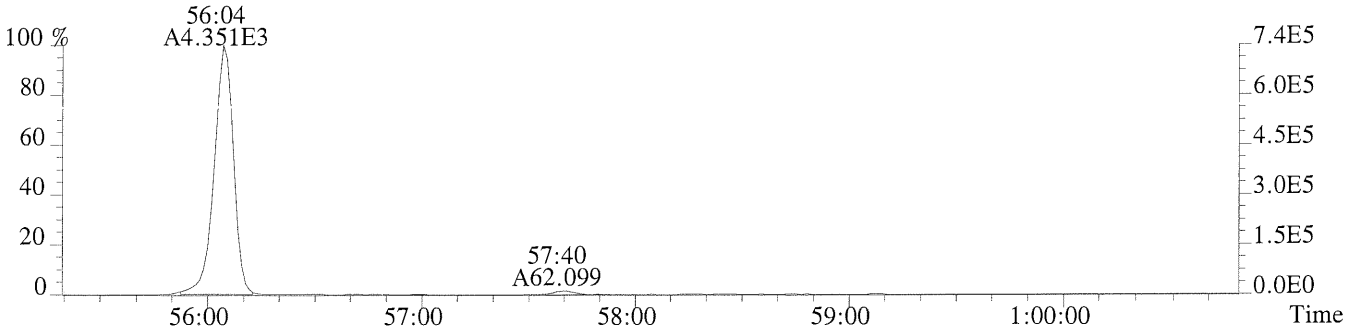
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



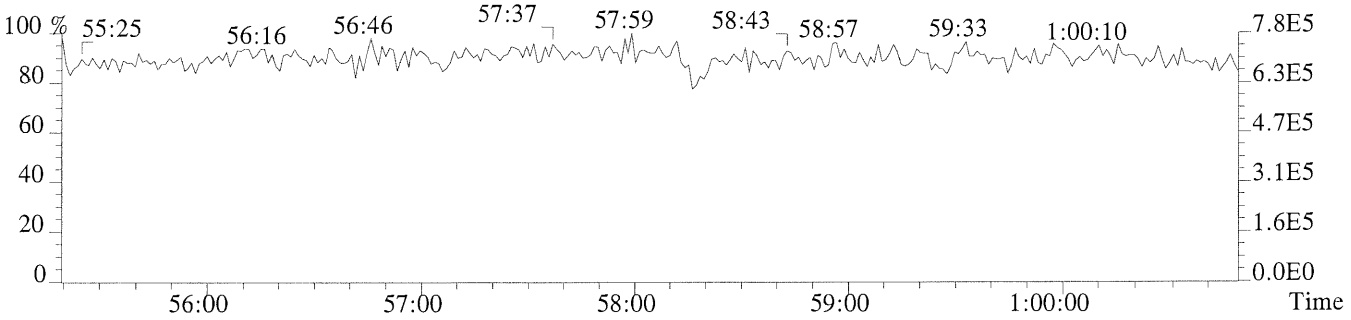
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1016.0,1.00%,F,T)



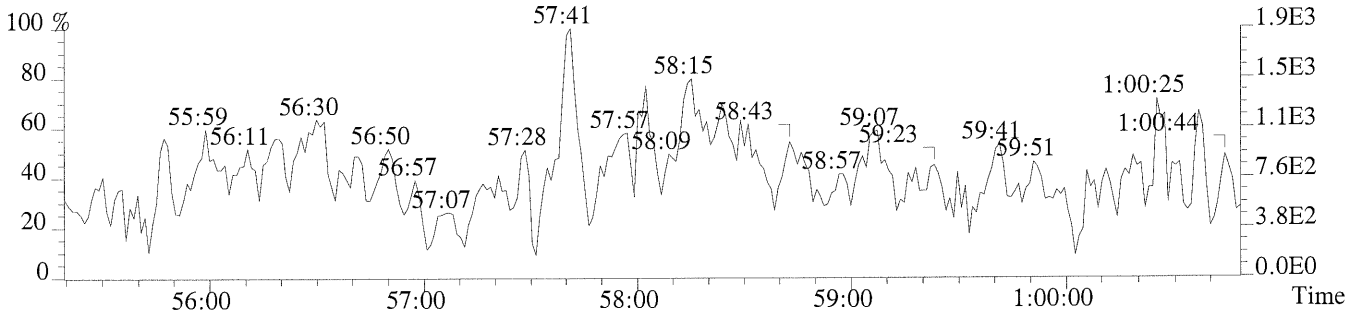
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,788.0,1.00%,F,T)



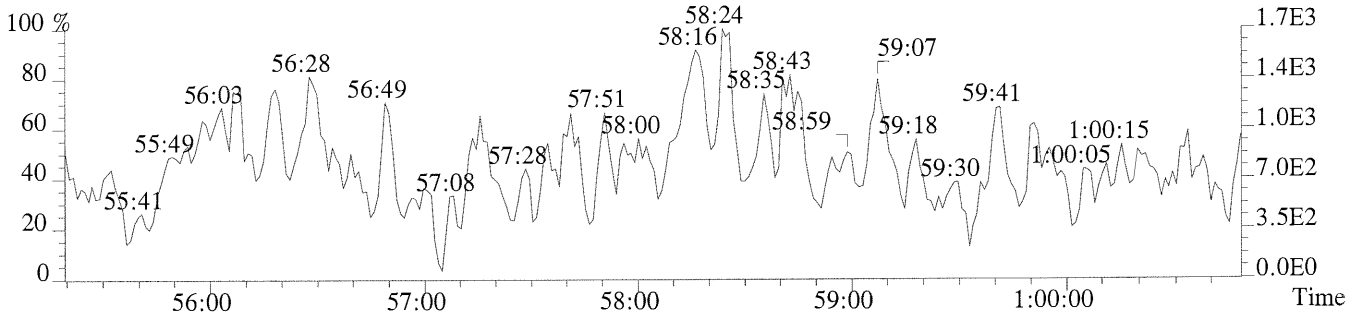
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



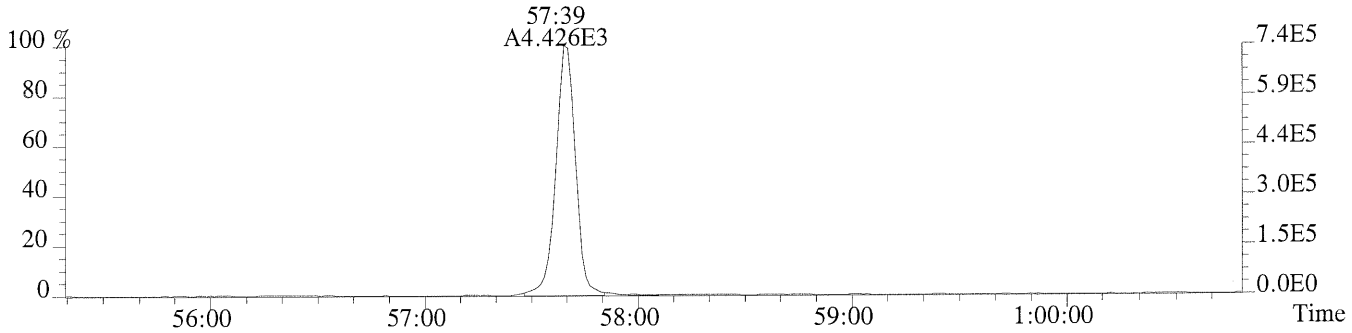
File:U142069 #1-310 Acq: 8-NOV-2011 13:54:33 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-009 B4-OA2-PCBs
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)



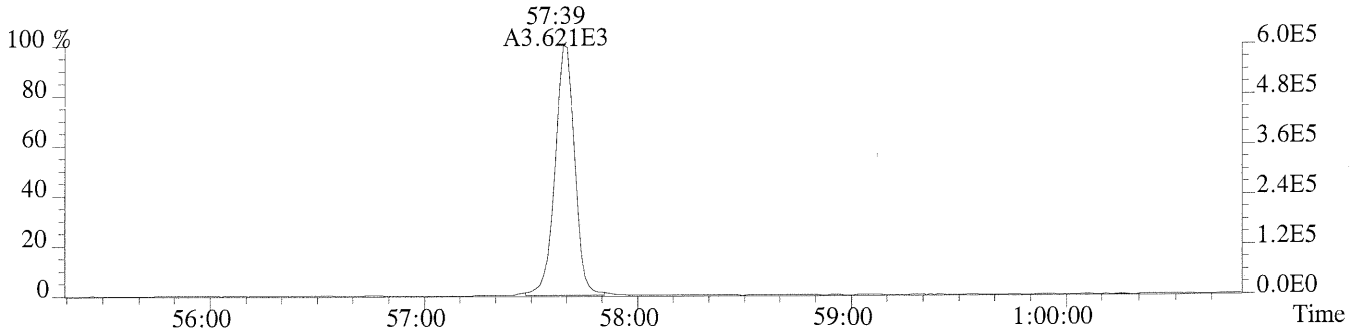
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



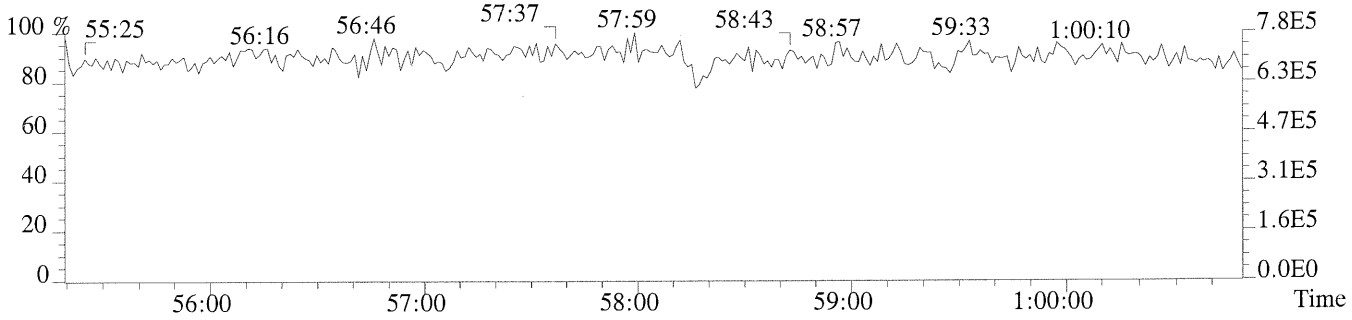
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1052.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4-BLANK-PCBs

Run #16 Filename U142070 Samp: 1 Inj: 1 Acquired: 8-NOV-11 15:02:06
Processed: 18-NOV-11 14:08:56 Sample ID: E1101017-010

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	n	1.071
2	1	PCB-2	NotFnd	*	*	*	n	n	0.917
3	1	PCB-3	15:40	5.751e+01	1.652e+02	0.35	n	y	1.036
4	1	PCB-4	NotFnd	*	*	*	n	n	1.114
5	1	PCB-10	NotFnd	*	*	*	n	n	1.743
6	2	PCB-9	NotFnd	*	*	*	n	n	1.045
7	2	PCB-7	NotFnd	*	*	*	n	n	1.156
8	2	PCB-6	NotFnd	*	*	*	n	n	1.106
9	2	PCB-5	NotFnd	*	*	*	n	n	1.053
10	2	PCB-8	NotFnd	*	*	*	n	n	1.154
11	2	PCB-14	NotFnd	*	*	*	n	n	1.149
12	2	PCB-11	21:39	6.453e+02	9.853e+02	0.66	n	n	0.995
13	2	PCB-12/13	NotFnd	*	*	*	n	n	1.077
14	2	PCB-15	NotFnd	*	*	*	n	n	0.977
15	2	PCB-19	NotFnd	*	*	*	n	n	1.001
16	2	PCB-18/30	NotFnd	*	*	*	n	n	1.281
17	2	PCB-17	NotFnd	*	*	*	n	n	1.115
18	2	PCB-27	NotFnd	*	*	*	n	n	1.470
19	2	PCB-24	NotFnd	*	*	*	n	n	1.512
20	2	PCB-16	NotFnd	*	*	*	n	n	0.993
21	2	PCB-32	NotFnd	*	*	*	n	n	1.572
22	3	PCB-34	NotFnd	*	*	*	n	n	1.190
23	3	PCB-23	NotFnd	*	*	*	n	n	1.300
24	3	PCB-26/29	NotFnd	*	*	*	n	n	1.267
25	3	PCB-25	NotFnd	*	*	*	n	n	1.333
26	3	PCB-31	NotFnd	*	*	*	n	n	1.259
27	3	PCB-20/28	NotFnd	*	*	*	n	n	1.302
28	3	PCB-21/33	NotFnd	*	*	*	n	n	1.237
29	3	PCB-22	NotFnd	*	*	*	n	n	1.223
30	3	PCB-36	NotFnd	*	*	*	n	n	1.210
31	3	PCB-39	NotFnd	*	*	*	n	n	1.351
32	3	PCB-38	NotFnd	*	*	*	n	n	1.126
33	3	PCB-35	NotFnd	*	*	*	n	n	1.083
34	3	PCB-37	NotFnd	*	*	*	n	n	1.089
35	2	PCB-54	NotFnd	*	*	*	n	n	1.002
36	3	PCB-50/53	NotFnd	*	*	*	n	n	1.250
37	3	PCB-45/51	NotFnd	*	*	*	n	n	1.215
38	3	PCB-46	NotFnd	*	*	*	n	n	1.039
39	3	PCB-52	NotFnd	*	*	*	n	n	1.217
40	3	PCB-43/73	NotFnd	*	*	*	n	n	1.489
41	3	PCB-49/69	NotFnd	*	*	*	n	n	1.402
42	3	PCB-48	NotFnd	*	*	*	n	n	1.312
43	3	PCB-44/47/65	NotFnd	*	*	*	n	y	1.378
44	3	PCB-59/62/75	NotFnd	*	*	*	n	n	1.606
45	3	PCB-42	NotFnd	*	*	*	n	n	1.138
46	3	PCB-40/41/71	NotFnd	*	*	*	n	n	1.231
47	3	PCB-64	NotFnd	*	*	*	n	n	1.626
48	3	PCB-72	NotFnd	*	*	*	n	n	1.584
49	3	PCB-68	NotFnd	*	*	*	n	n	1.742
50	3	PCB-57	NotFnd	*	*	*	n	n	1.496

51	3	PCB-58	NotFnd	*	*	*	n	n	1.609
52	3	PCB-67	NotFnd	*	*	*	n	n	1.638
53	3	PCB-63	NotFnd	*	*	*	n	y	1.539
54	3	PCB-61/70/74/76	NotFnd	*	*	*	n	y	1.581
55	3	PCB-66	NotFnd	*	*	*	n	n	1.476
56	3	PCB-55	NotFnd	*	*	*	n	n	1.512
57	4	PCB-56	NotFnd	*	*	*	n	n	1.127
58	4	PCB-60	NotFnd	*	*	*	n	n	1.132
59	4	PCB-80	NotFnd	*	*	*	n	n	1.212
60	4	PCB-79	NotFnd	*	*	*	n	n	1.147
61	4	PCB-78	NotFnd	*	*	*	n	n	1.036
62	4	PCB-81	NotFnd	*	*	*	n	n	1.034
63	4	PCB-77	NotFnd	*	*	*	n	n	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	NotFnd	*	*	*	n	n	1.469
66	3	PCB-103	NotFnd	*	*	*	n	n	1.219
67	3	PCB-94	NotFnd	*	*	*	n	n	1.099
68	3	PCB-95	NotFnd	*	*	*	n	y	1.165
69	3	PCB-93/100	NotFnd	*	*	*	n	n	1.175
70	3	PCB-98/102	NotFnd	*	*	*	n	n	1.160
71	3	PCB-88/91	NotFnd	*	*	*	n	n	1.130
72	3	PCB-84	NotFnd	*	*	*	n	n	0.979
73	3	PCB-89	NotFnd	*	*	*	n	n	1.039
74	4	PCB-121	NotFnd	*	*	*	n	n	1.536
75	4	PCB-92	NotFnd	*	*	*	n	n	1.047
76	4	PCB-90/101/113	33:47	4.436e+01	3.537e+01	1.25	n	n	1.202
77	4	PCB-83/99	NotFnd	*	*	*	n	n	1.100
78	4	PCB-112	NotFnd	*	*	*	n	n	1.427
79	4	PCB-86/87/97/109/119/125	NotFnd	*	*	*	n	n	1.241
80	4	PCB-117	NotFnd	*	*	*	n	n	1.461
81	4	PCB-85/116	NotFnd	*	*	*	n	n	1.249
82	4	PCB-110/115	NotFnd	*	*	*	n	y	1.488
83	4	PCB-82	NotFnd	*	*	*	n	n	0.955
84	4	PCB-111	NotFnd	*	*	*	n	n	1.519
85	4	PCB-120	NotFnd	*	*	*	n	n	1.397
86	5	PCB-108/124	NotFnd	*	*	*	n	n	0.953
87	5	PCB-107	NotFnd	*	*	*	n	y	0.985
88	5	PCB-123	NotFnd	*	*	*	n	n	1.018
89	5	PCB-106	NotFnd	*	*	*	n	y	0.927
90	5	PCB-118	NotFnd	*	*	*	n	y	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	0.862
92	5	PCB-114	NotFnd	*	*	*	n	n	0.991
93	5	PCB-105	NotFnd	*	*	*	n	n	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	0.857
95	5	PCB-126	NotFnd	*	*	*	n	n	0.960
96	4	PCB-155	NotFnd	*	*	*	n	n	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.887
98	4	PCB-150	NotFnd	*	*	*	n	n	2.019
99	4	PCB-136	NotFnd	*	*	*	n	n	1.815
100	4	PCB-145	NotFnd	*	*	*	n	n	1.971
101	4	PCB-148	NotFnd	*	*	*	n	n	1.429
102	4	PCB-135/151	NotFnd	*	*	*	n	n	1.439
103	4	PCB-154	NotFnd	*	*	*	n	n	1.637
104	4	PCB-144	NotFnd	*	*	*	n	n	1.431
105	5	PCB-147/149	NotFnd	*	*	*	n	y	1.453
106	5	PCB-134	NotFnd	*	*	*	n	n	1.118
107	5	PCB-143	NotFnd	*	*	*	n	n	1.332

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.434
109	5	PCB-131	NotFnd	*	*	*	n	n	1.228
110	5	PCB-142	NotFnd	*	*	*	n	n	1.176
111	5	PCB-132	NotFnd	*	*	*	n	n	1.283
112	5	PCB-133	NotFnd	*	*	*	n	n	1.200
113	5	PCB-165	NotFnd	*	*	*	n	n	1.667
114	5	PCB-146	NotFnd	*	*	*	n	n	1.457
115	5	PCB-161	NotFnd	*	*	*	n	n	1.797
116	5	PCB-153/168	NotFnd	*	*	*	n	n	1.696
117	5	PCB-141	NotFnd	*	*	*	n	n	1.367
118	5	PCB-130	NotFnd	*	*	*	n	n	1.085
119	5	PCB-137	NotFnd	*	*	*	n	n	1.264
120	5	PCB-164	NotFnd	*	*	*	n	n	1.658
121	5	PCB-129/138/163	NotFnd	*	*	*	n	n	1.354
122	5	PCB-160	NotFnd	*	*	*	n	n	1.613
123	5	PCB-158	NotFnd	*	*	*	n	n	1.734
124	5	PCB-128/166	NotFnd	*	*	*	n	n	1.380
125	6	PCB-159	NotFnd	*	*	*	n	n	0.865
126	6	PCB-162	NotFnd	*	*	*	n	n	0.987
127	6	PCB-167	NotFnd	*	*	*	n	n	1.008
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.006
129	6	PCB-169	NotFnd	*	*	*	n	n	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	NotFnd	*	*	*	n	n	1.356
132	5	PCB-184	NotFnd	*	*	*	n	n	1.595
133	5	PCB-176	NotFnd	*	*	*	n	n	1.359
134	5	PCB-186	NotFnd	*	*	*	n	n	1.429
135	5	PCB-178	NotFnd	*	*	*	n	n	0.960
136	5	PCB-175	NotFnd	*	*	*	n	n	1.003
137	5	PCB-187	NotFnd	*	*	*	n	n	1.145
138	5	PCB-182	NotFnd	*	*	*	n	n	1.039
139	6	PCB-183	NotFnd	*	*	*	n	n	0.669
140	6	PCB-185	NotFnd	*	*	*	n	n	0.668
141	6	PCB-174	NotFnd	*	*	*	n	n	0.633
142	6	PCB-177	NotFnd	*	*	*	n	n	0.605
143	6	PCB-181	NotFnd	*	*	*	n	n	0.666
144	6	PCB-171/173	NotFnd	*	*	*	n	n	0.575
145	6	PCB-172	NotFnd	*	*	*	n	n	0.547
146	6	PCB-192	NotFnd	*	*	*	n	n	0.755
147	6	PCB-180/193	NotFnd	*	*	*	n	n	0.689
148	6	PCB-191	NotFnd	*	*	*	n	n	0.745
149	6	PCB-170	NotFnd	*	*	*	n	n	0.514
150	6	PCB-190	NotFnd	*	*	*	n	n	0.703
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	NotFnd	*	*	*	n	n	0.863
153	6	PCB-201	NotFnd	*	*	*	n	n	1.206
154	6	PCB-204	NotFnd	*	*	*	n	n	1.172
155	6	PCB-197	NotFnd	*	*	*	n	n	1.259
156	6	PCB-200	NotFnd	*	*	*	n	n	1.212
157	6	PCB-198/199	NotFnd	*	*	*	n	n	0.838
158	6	PCB-196	NotFnd	*	*	*	n	n	0.819
159	6	PCB-203	NotFnd	*	*	*	n	n	0.975
160	6	PCB-195	NotFnd	*	*	*	n	n	0.743
161	6	PCB-194	NotFnd	*	*	*	n	n	0.757
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	NotFnd	*	*	*	n	n	0.880
164	6	PCB-207	NotFnd	*	*	*	n	n	1.093

Filename U142070 Acquired: 8-NOV-11 15:02:06

165	7	PCB-206	NotFnd	*	*	*	n	n	0.931
166	7	PCB-209	NotFnd	*	*	*	n	n	0.894
167	1	PCB-1L	13:24	2.371e+04	7.755e+03	3.06	y	n	1.220
168	1	PCB-3L	15:40	2.679e+04	8.687e+03	3.08	y	n	1.173
169	1	PCB-4L	15:55	1.156e+04	7.316e+03	1.58	y	n	0.803
170	2	PCB-15L	22:03	1.962e+04	1.228e+04	1.60	y	n	0.962
171	2	PCB-19L	19:13	7.454e+03	7.225e+03	1.03	y	n	0.636
172	3	PCB-37L	29:03	1.596e+04	1.484e+04	1.08	y	n	1.144
173	2	PCB-54L	22:19	6.299e+03	7.719e+03	0.82	y	n	1.140
174	4	PCB-81L	35:51	1.130e+04	1.438e+04	0.79	y	n	0.947
175	4	PCB-77L	36:25	1.226e+04	1.597e+04	0.77	y	n	0.949
176	3	PCB-104L	27:48	1.031e+04	6.587e+03	1.57	y	n	1.397
177	5	PCB-123L	38:23	1.502e+04	9.592e+03	1.57	y	n	1.029
178	5	PCB-118L	38:43	1.590e+04	9.865e+03	1.61	y	n	1.077
179	5	PCB-114L	39:15	1.533e+04	9.416e+03	1.63	y	n	1.075
180	5	PCB-105L	39:54	1.454e+04	9.142e+03	1.59	y	n	1.013
181	5	PCB-126L	43:01	1.270e+04	7.696e+03	1.65	y	n	0.898
182	4	PCB-155L	33:30	1.084e+04	8.611e+03	1.26	y	n	1.637
183	6	PCB-167L	44:53	1.023e+04	8.308e+03	1.23	y	n	0.882
184	6	PCB-156/157L	46:01	1.957e+04	1.562e+04	1.25	y	n	0.818
185	6	PCB-169L	49:16	8.477e+03	6.737e+03	1.26	y	n	0.716
186	5	PCB-188L	39:14	1.029e+04	9.976e+03	1.03	y	n	2.358
187	6	PCB-189L	51:48	7.493e+03	7.400e+03	1.01	y	n	1.307
188	6	PCB-202L	44:37	7.960e+03	8.583e+03	0.93	y	n	1.804
189	6	PCB-205L	54:20	5.061e+03	5.430e+03	0.93	y	n	1.363
190	6	PCB-208L	51:17	4.641e+03	5.853e+03	0.79	y	n	1.337
191	7	PCB-206L	56:05	4.445e+03	5.709e+03	0.78	y	n	0.999
192	7	PCB-209L	57:40	5.321e+03	4.610e+03	1.15	y	n	1.563
193	3	PCB-28L	25:00	1.687e+04	1.596e+04	1.06	y	n	1.387
194	4	PCB-111L	36:27	1.474e+04	9.426e+03	1.56	y	n	1.238
195	5	PCB-178L	42:19	6.174e+03	5.916e+03	1.04	y	y	0.953
196	2	PCB-9L	18:01	2.314e+04	1.450e+04	1.60	y	n	-
197	3	PCB-52L	26:51	1.289e+04	1.602e+04	0.80	y	n	-
198	4	PCB-101L	33:44	1.642e+04	1.024e+04	1.60	y	n	-
199	5	PCB-138L	41:51	1.216e+04	9.802e+03	1.24	y	n	-
200	6	PCB-194L	53:52	5.710e+03	5.986e+03	0.95	y	n	-

-- Sample Calculation--

EDL

PCB-209 = (9.200e+02 + 6.840e+02) x 10000 pg x 1 / (5.321~~e+03~~ + 4.610~~e+03~~) x (0.5 g ~~mL~~) x (1L / 1000 mL) x 0.8938 = 52.5

X2.5

9.230e+05 + 7.86e+05

RB

11/19/11

Columbia Analytical Services, Inc.
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sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4-BLANK-PCBs

Run #7 Filename U142070#1 Samp: 1 Inj: 1 Acquired: 8-NOV-11 15:02:06
Processed: 18-NOV-11 15:00:08 Sample ID: E1101017-010

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:47	3.841e+03	3.033e+03	1.27	no	1.101	no
2	70L	PCB-70L	31:38	1.332e+04	1.653e+04	0.81	yes	1.584	no
3	15L	PCB-15L	22:03	1.962e+04	1.228e+04	1.60	yes		no
4	81L	PCB-81L	35:51	1.130e+04	1.438e+04	0.79	yes		no

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	9.07e+05	1.86e+03	4.9e+02	5.80e+05	1.41e+03	4.1e+02
2	PCB-70L	1.88e+06	3.27e+03	5.8e+02	2.33e+06	3.12e+03	7.5e+02
3	PCB-15L	4.94e+06	1.86e+03	2.6e+03	3.09e+06	1.41e+03	2.2e+03
4	PCB-81L	1.65e+06	4.92e+03	3.4e+02	2.09e+06	3.20e+03	6.5e+02

----Sample EDL Calculation----

2.462e+03

$$\text{PCB-8L} = \frac{(3.84e+03 + \cancel{3.03e+03}) \times 10000\ \text{pg} \quad 1}{(1.96e+04 + 1.23e+04) \times 1.0\ \cancel{L} \times 1.101} = 1794\ \text{pg}$$

~~pg/L~~

11/19/11

A2 = A1 / 1.56
= 2.462e+03

Columbia Analytical Services, Inc.
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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4-BLANK-PCBs

Run #16 Filename U142070#1 Samp: 1 Inj: 1 Acquired: 8-NOV-11 15:02:06

Processed: 18-NOV-11 14:08:56 LAB. ID: E1101017-010

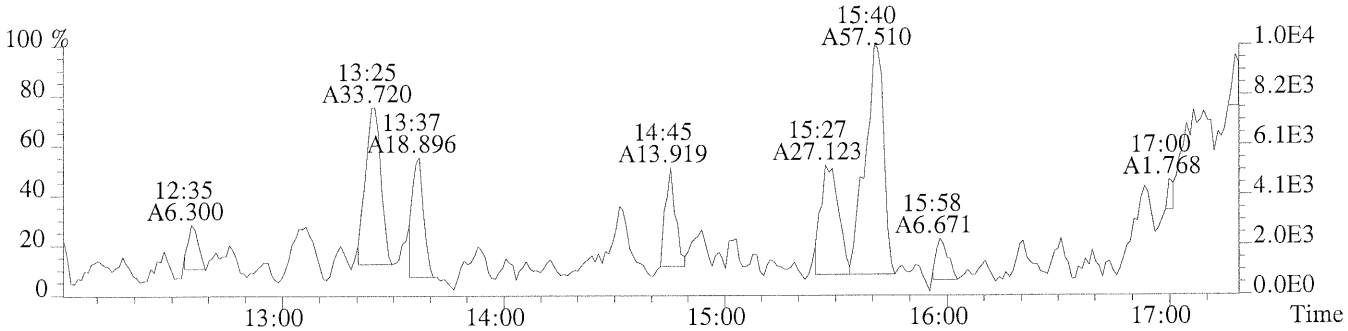
	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	1.51e+03	*	*	2.36e+03	*
2	PCB-2	*	1.51e+03	*	*	2.36e+03	*
3	PCB-3	9.39e+03	1.51e+03	6.2e+00	2.44e+04	2.36e+03	1.0e+01
4	PCB-4	*	2.84e+03	*	*	5.24e+04	*
5	PCB-10	*	2.84e+03	*	*	5.24e+04	*
6	PCB-9	*	1.52e+03	*	*	3.93e+04	*
7	PCB-7	*	1.52e+03	*	*	3.93e+04	*
8	PCB-6	*	1.52e+03	*	*	3.93e+04	*
9	PCB-5	*	1.52e+03	*	*	3.93e+04	*
10	PCB-8	*	1.52e+03	*	*	3.93e+04	*
11	PCB-14	*	1.52e+03	*	*	3.93e+04	*
12	PCB-11	1.83e+05	1.52e+03	1.2e+02	1.99e+05	3.93e+04	5.1e+00
13	PCB-12/13	*	1.52e+03	*	*	3.93e+04	*
14	PCB-15	*	1.52e+03	*	*	3.93e+04	*
15	PCB-19	*	2.25e+04	*	*	2.15e+03	*
16	PCB-18/30	*	2.25e+04	*	*	2.15e+03	*
17	PCB-17	*	2.25e+04	*	*	2.15e+03	*
18	PCB-27	*	2.25e+04	*	*	2.15e+03	*
19	PCB-24	*	2.25e+04	*	*	2.15e+03	*
20	PCB-16	*	2.25e+04	*	*	2.15e+03	*
21	PCB-32	*	2.25e+04	*	*	2.15e+03	*
22	PCB-34	*	2.24e+04	*	*	3.57e+03	*
23	PCB-23	*	2.24e+04	*	*	3.57e+03	*
24	PCB-26/29	*	2.24e+04	*	*	3.57e+03	*
25	PCB-25	*	2.24e+04	*	*	3.57e+03	*
26	PCB-31	*	2.24e+04	*	*	3.57e+03	*
27	PCB-20/28	*	2.24e+04	*	*	3.57e+03	*
28	PCB-21/33	*	2.24e+04	*	*	3.57e+03	*
29	PCB-22	*	2.24e+04	*	*	3.57e+03	*
30	PCB-36	*	2.24e+04	*	*	3.57e+03	*
31	PCB-39	*	2.24e+04	*	*	3.57e+03	*
32	PCB-38	*	2.24e+04	*	*	3.57e+03	*
33	PCB-35	*	2.24e+04	*	*	3.57e+03	*
34	PCB-37	*	2.24e+04	*	*	3.57e+03	*
35	PCB-54	*	2.54e+03	*	*	7.52e+03	*
36	PCB-50/53	*	2.41e+03	*	*	1.56e+03	*
37	PCB-45/51	*	2.41e+03	*	*	1.56e+03	*
38	PCB-46	*	2.41e+03	*	*	1.56e+03	*
39	PCB-52	*	2.41e+03	*	*	1.56e+03	*
40	PCB-43/73	*	2.41e+03	*	*	1.56e+03	*
41	PCB-49/69	*	2.41e+03	*	*	1.56e+03	*
42	PCB-48	*	2.41e+03	*	*	1.56e+03	*
43	PCB-44/47/65	*	2.41e+03	*	*	1.56e+03	*
44	PCB-59/62/75	*	2.41e+03	*	*	1.56e+03	*
45	PCB-42	*	2.41e+03	*	*	1.56e+03	*
46	PCB-40/41/71	*	2.41e+03	*	*	1.56e+03	*
47	PCB-64	*	2.41e+03	*	*	1.56e+03	*

48	PCB-72	*	2.41e+03	*	*	1.56e+03	*
49	PCB-68	*	2.41e+03	*	*	1.56e+03	*
50	PCB-57	*	2.41e+03	*	*	1.56e+03	*
51	PCB-58	*	2.41e+03	*	*	1.56e+03	*
52	PCB-67	*	2.41e+03	*	*	1.56e+03	*
53	PCB-63	*	2.41e+03	*	*	1.56e+03	*
54	PCB-61/70/74/76	*	2.41e+03	*	*	1.56e+03	*
55	PCB-66	*	2.41e+03	*	*	1.56e+03	*
56	PCB-55	*	2.41e+03	*	*	1.56e+03	*
57	PCB-56	*	2.10e+03	*	*	1.54e+03	*
58	PCB-60	*	2.10e+03	*	*	1.54e+03	*
59	PCB-80	*	2.10e+03	*	*	1.54e+03	*
60	PCB-79	*	2.10e+03	*	*	1.54e+03	*
61	PCB-78	*	2.10e+03	*	*	1.54e+03	*
62	PCB-81	*	2.10e+03	*	*	1.54e+03	*
63	PCB-77	*	2.10e+03	*	*	1.54e+03	*
64	PCB-104	*	6.88e+02	*	*	7.80e+02	*
65	PCB-96	*	6.88e+02	*	*	7.80e+02	*
66	PCB-103	*	6.88e+02	*	*	7.80e+02	*
67	PCB-94	*	6.88e+02	*	*	7.80e+02	*
68	PCB-95	*	6.88e+02	*	*	7.80e+02	*
69	PCB-93/100	*	6.88e+02	*	*	7.80e+02	*
70	PCB-98/102	*	6.88e+02	*	*	7.80e+02	*
71	PCB-88/91	*	6.88e+02	*	*	7.80e+02	*
72	PCB-84	*	6.88e+02	*	*	7.80e+02	*
73	PCB-89	*	6.88e+02	*	*	7.80e+02	*
74	PCB-121	*	1.42e+03	*	*	1.53e+03	*
75	PCB-92	*	1.42e+03	*	*	1.53e+03	*
76	PCB-90/101/113	6.64e+03	1.42e+03	4.7e+00	6.65e+03	1.53e+03	4.4e+00
77	PCB-83/99	*	1.42e+03	*	*	1.53e+03	*
78	PCB-112	*	1.42e+03	*	*	1.53e+03	*
79	CB-86/87/97/109/119/125	*	1.42e+03	*	*	1.53e+03	*
80	PCB-117	*	1.42e+03	*	*	1.53e+03	*
81	PCB-85/116	*	1.42e+03	*	*	1.53e+03	*
82	PCB-110/115	*	1.42e+03	*	*	1.53e+03	*
83	PCB-82	*	1.42e+03	*	*	1.53e+03	*
84	PCB-111	*	1.42e+03	*	*	1.53e+03	*
85	PCB-120	*	1.42e+03	*	*	1.53e+03	*
86	PCB-108/124	*	6.84e+02	*	*	7.96e+02	*
87	PCB-107	*	6.84e+02	*	*	7.96e+02	*
88	PCB-123	*	6.84e+02	*	*	7.96e+02	*
89	PCB-106	*	6.84e+02	*	*	7.96e+02	*
90	PCB-118	*	6.84e+02	*	*	7.96e+02	*
91	PCB-122	*	6.84e+02	*	*	7.96e+02	*
92	PCB-114	*	6.84e+02	*	*	7.96e+02	*
93	PCB-105	*	6.84e+02	*	*	7.96e+02	*
94	PCB-127	*	6.84e+02	*	*	7.96e+02	*
95	PCB-126	*	6.84e+02	*	*	7.96e+02	*
96	PCB-155	*	1.32e+03	*	*	1.22e+03	*
97	PCB-152	*	1.32e+03	*	*	1.22e+03	*
98	PCB-150	*	1.32e+03	*	*	1.22e+03	*
99	PCB-136	*	1.32e+03	*	*	1.22e+03	*
100	PCB-145	*	1.32e+03	*	*	1.22e+03	*
101	PCB-148	*	1.32e+03	*	*	1.22e+03	*
102	PCB-135/151	*	1.32e+03	*	*	1.22e+03	*
103	PCB-154	*	1.32e+03	*	*	1.22e+03	*
104	PCB-144	*	1.32e+03	*	*	1.22e+03	*

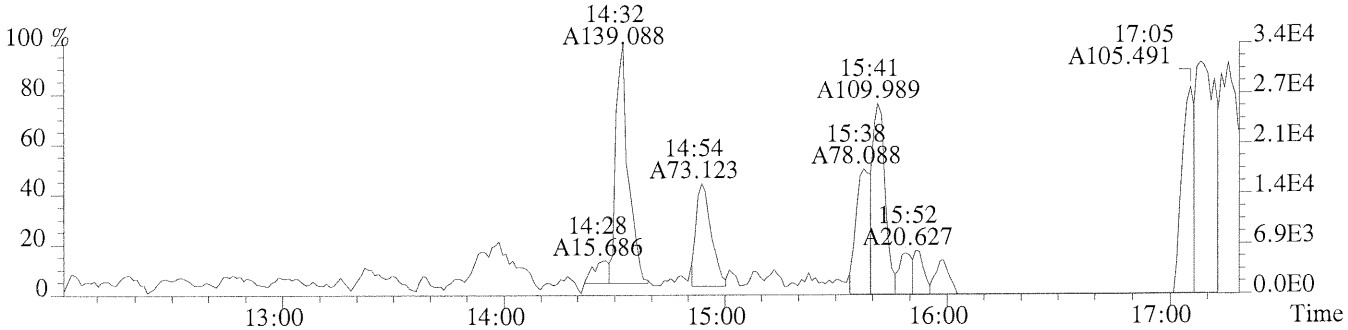
105	PCB-147/149	*	8.64e+02	*	*	1.02e+03	*
106	PCB-134	*	8.64e+02	*	*	1.02e+03	*
107	PCB-143	*	8.64e+02	*	*	1.02e+03	*
108	PCB-139/140	*	8.64e+02	*	*	1.02e+03	*
109	PCB-131	*	8.64e+02	*	*	1.02e+03	*
110	PCB-142	*	8.64e+02	*	*	1.02e+03	*
111	PCB-132	*	8.64e+02	*	*	1.02e+03	*
112	PCB-133	*	8.64e+02	*	*	1.02e+03	*
113	PCB-165	*	8.64e+02	*	*	1.02e+03	*
114	PCB-146	*	8.64e+02	*	*	1.02e+03	*
115	PCB-161	*	8.64e+02	*	*	1.02e+03	*
116	PCB-153/168	*	8.64e+02	*	*	1.02e+03	*
117	PCB-141	*	8.64e+02	*	*	1.02e+03	*
118	PCB-130	*	8.64e+02	*	*	1.02e+03	*
119	PCB-137	*	8.64e+02	*	*	1.02e+03	*
120	PCB-164	*	8.64e+02	*	*	1.02e+03	*
121	PCB-129/138/163	*	8.64e+02	*	*	1.02e+03	*
122	PCB-160	*	8.64e+02	*	*	1.02e+03	*
123	PCB-158	*	8.64e+02	*	*	1.02e+03	*
124	PCB-128/166	*	8.64e+02	*	*	1.02e+03	*
125	PCB-159	*	9.32e+02	*	*	9.88e+02	*
126	PCB-162	*	9.32e+02	*	*	9.88e+02	*
127	PCB-167	*	9.32e+02	*	*	9.88e+02	*
128	PCB-156/157	*	9.32e+02	*	*	9.88e+02	*
129	PCB-169	*	9.32e+02	*	*	9.88e+02	*
130	PCB-188	*	9.28e+02	*	*	7.56e+02	*
131	PCB-179	*	9.28e+02	*	*	7.56e+02	*
132	PCB-184	*	9.28e+02	*	*	7.56e+02	*
133	PCB-176	*	9.28e+02	*	*	7.56e+02	*
134	PCB-186	*	9.28e+02	*	*	7.56e+02	*
135	PCB-178	*	9.28e+02	*	*	7.56e+02	*
136	PCB-175	*	9.28e+02	*	*	7.56e+02	*
137	PCB-187	*	9.28e+02	*	*	7.56e+02	*
138	PCB-182	*	9.28e+02	*	*	7.56e+02	*
139	PCB-183	*	1.02e+03	*	*	1.17e+03	*
140	PCB-185	*	1.02e+03	*	*	1.17e+03	*
141	PCB-174	*	1.02e+03	*	*	1.17e+03	*
142	PCB-177	*	1.02e+03	*	*	1.17e+03	*
143	PCB-181	*	1.02e+03	*	*	1.17e+03	*
144	PCB-171/173	*	1.02e+03	*	*	1.17e+03	*
145	PCB-172	*	1.02e+03	*	*	1.17e+03	*
146	PCB-192	*	1.02e+03	*	*	1.17e+03	*
147	PCB-180/193	*	1.02e+03	*	*	1.17e+03	*
148	PCB-191	*	1.02e+03	*	*	1.17e+03	*
149	PCB-170	*	1.02e+03	*	*	1.17e+03	*
150	PCB-190	*	1.02e+03	*	*	1.17e+03	*
151	PCB-189	*	1.02e+03	*	*	1.17e+03	*
152	PCB-202	*	8.60e+02	*	*	9.52e+02	*
153	PCB-201	*	8.60e+02	*	*	9.52e+02	*
154	PCB-204	*	8.60e+02	*	*	9.52e+02	*
155	PCB-197	*	8.60e+02	*	*	9.52e+02	*
156	PCB-200	*	8.60e+02	*	*	9.52e+02	*
157	PCB-198/199	*	8.60e+02	*	*	9.52e+02	*
158	PCB-196	*	8.60e+02	*	*	9.52e+02	*
159	PCB-203	*	8.60e+02	*	*	9.52e+02	*
160	PCB-195	*	8.60e+02	*	*	9.52e+02	*
161	PCB-194	*	8.60e+02	*	*	9.52e+02	*
162	PCB-205	*	8.60e+02	*	*	9.52e+02	*

	PCB-208	*	9.52e+02	*	*	1.04e+03	*
	PCB-207	*	9.52e+02	*	*	1.04e+03	*
	PCB-206	*	6.60e+02	*	*	7.04e+02	*
	PCB-209	*	9.20e+02	*	*	6.84e+02	*
	PCB-1L	4.18e+06	1.47e+03	2.8e+03	1.35e+06	8.98e+03	1.5e+02
	PCB-3L	4.44e+06	1.47e+03	3.0e+03	1.46e+06	8.98e+03	1.6e+02
	PCB-4L	1.74e+06	1.42e+03	1.2e+03	1.10e+06	1.50e+03	7.3e+02
	PCB-15L	4.94e+06	1.86e+03	2.6e+03	3.09e+06	1.41e+03	2.2e+03
	PCB-19L	1.12e+06	4.02e+04	2.8e+01	1.09e+06	9.95e+04	1.1e+01
	PCB-37L	2.07e+06	1.19e+04	1.7e+02	1.95e+06	2.31e+04	8.4e+01
	PCB-54L	1.29e+06	2.94e+03	4.4e+02	1.56e+06	2.94e+03	5.3e+02
	PCB-81L	1.65e+06	4.92e+03	3.4e+02	2.09e+06	3.20e+03	6.5e+02
	PCB-77L	1.76e+06	4.92e+03	3.6e+02	2.25e+06	3.20e+03	7.1e+02
	PCB-104L	1.39e+06	5.06e+03	2.7e+02	8.83e+05	2.85e+03	3.1e+02
	PCB-123L	2.24e+06	2.68e+03	8.4e+02	1.43e+06	3.03e+03	4.7e+02
	PCB-118L	2.32e+06	2.68e+03	8.7e+02	1.46e+06	3.03e+03	4.8e+02
	PCB-114L	2.29e+06	2.68e+03	8.5e+02	1.40e+06	3.03e+03	4.6e+02
	PCB-105L	2.13e+06	2.68e+03	8.0e+02	1.36e+06	3.03e+03	4.5e+02
	PCB-126L	1.84e+06	2.68e+03	6.9e+02	1.08e+06	3.03e+03	3.6e+02
	PCB-155L	1.50e+06	4.02e+03	3.7e+02	1.19e+06	7.16e+03	1.7e+02
	PCB-167L	1.94e+06	1.80e+03	1.1e+03	1.56e+06	1.98e+03	7.9e+02
	PCB-156/157L	2.96e+06	1.80e+03	1.6e+03	2.38e+06	1.98e+03	1.2e+03
	PCB-169L	1.63e+06	1.80e+03	9.0e+02	1.26e+06	1.98e+03	6.3e+02
	PCB-188L	1.57e+06	1.00e+03	1.6e+03	1.52e+06	7.00e+02	2.2e+03
	PCB-189L	1.42e+06	1.32e+03	1.1e+03	1.42e+06	8.60e+02	1.7e+03
	PCB-202L	1.47e+06	8.96e+02	1.6e+03	1.60e+06	1.17e+03	1.4e+03
	PCB-205L	1.01e+06	8.96e+02	1.1e+03	1.09e+06	1.17e+03	9.3e+02
	PCB-208L	9.19e+05	1.20e+03	7.6e+02	1.14e+06	9.52e+02	1.2e+03
	PCB-206L	7.85e+05	7.40e+02	1.1e+03	1.00e+06	6.08e+02	1.7e+03
	PCB-209L	9.23e+05	8.56e+02	1.1e+03	7.86e+05	6.84e+02	1.1e+03
	PCB-28L	2.39e+06	1.19e+04	2.0e+02	2.26e+06	2.31e+04	9.8e+01
	PCB-111L	2.22e+06	4.27e+03	5.2e+02	1.41e+06	3.04e+03	4.7e+02
	PCB-178L	9.32e+05	1.00e+03	9.3e+02	8.97e+05	7.00e+02	1.3e+03
	PCB-9L	4.38e+06	1.86e+03	2.4e+03	2.72e+06	1.41e+03	1.9e+03
	PCB-52L	1.78e+06	3.27e+03	5.4e+02	2.25e+06	3.12e+03	7.2e+02
	PCB-101L	2.23e+06	4.27e+03	5.2e+02	1.38e+06	3.04e+03	4.5e+02
	PCB-138L	1.78e+06	1.04e+03	1.7e+03	1.47e+06	1.94e+03	7.6e+02
	PCB-194L	1.14e+06	8.96e+02	1.3e+03	1.18e+06	1.17e+03	1.0e+03

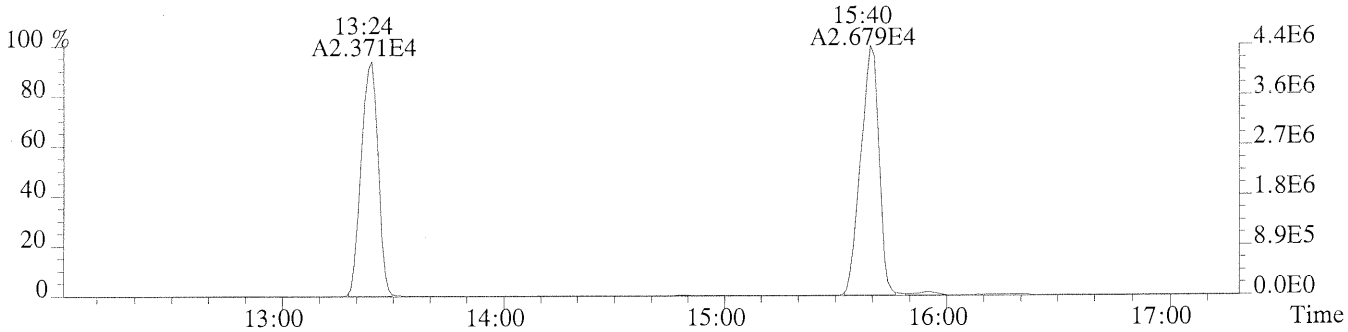
File:U142070 #1-341 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1512.0,1.00%,F,T)



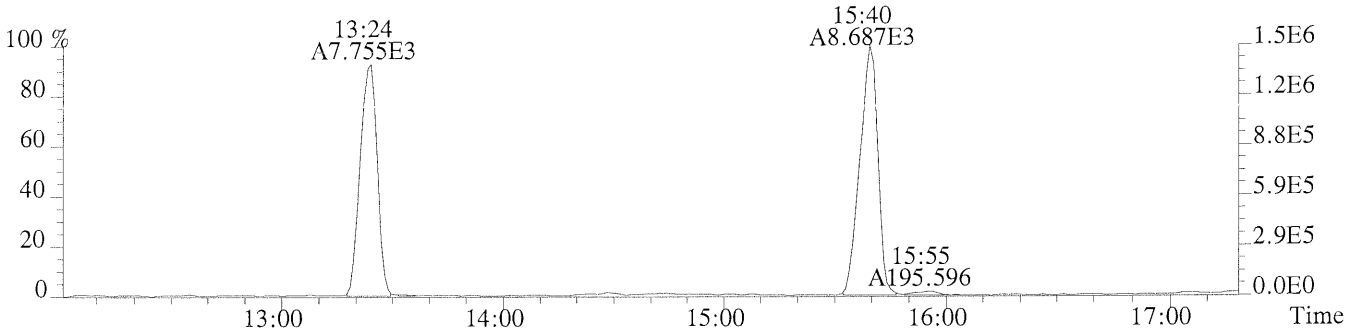
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2364.0,1.00%,F,T)



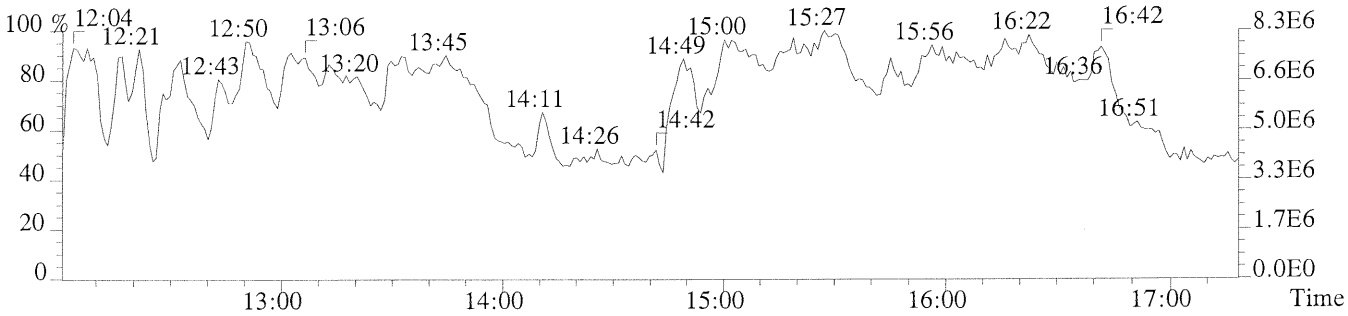
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1468.0,1.00%,F,T)



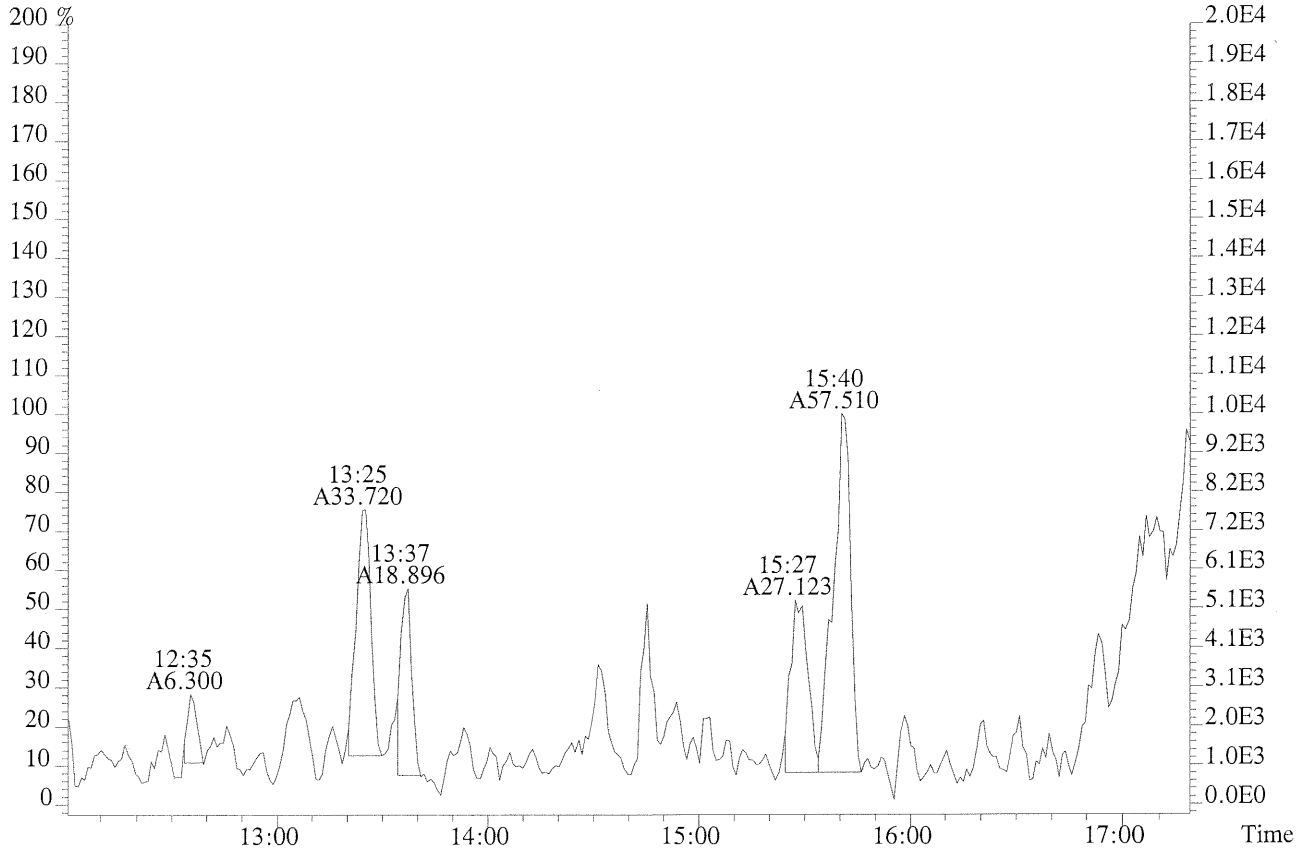
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8976.0,1.00%,F,T)



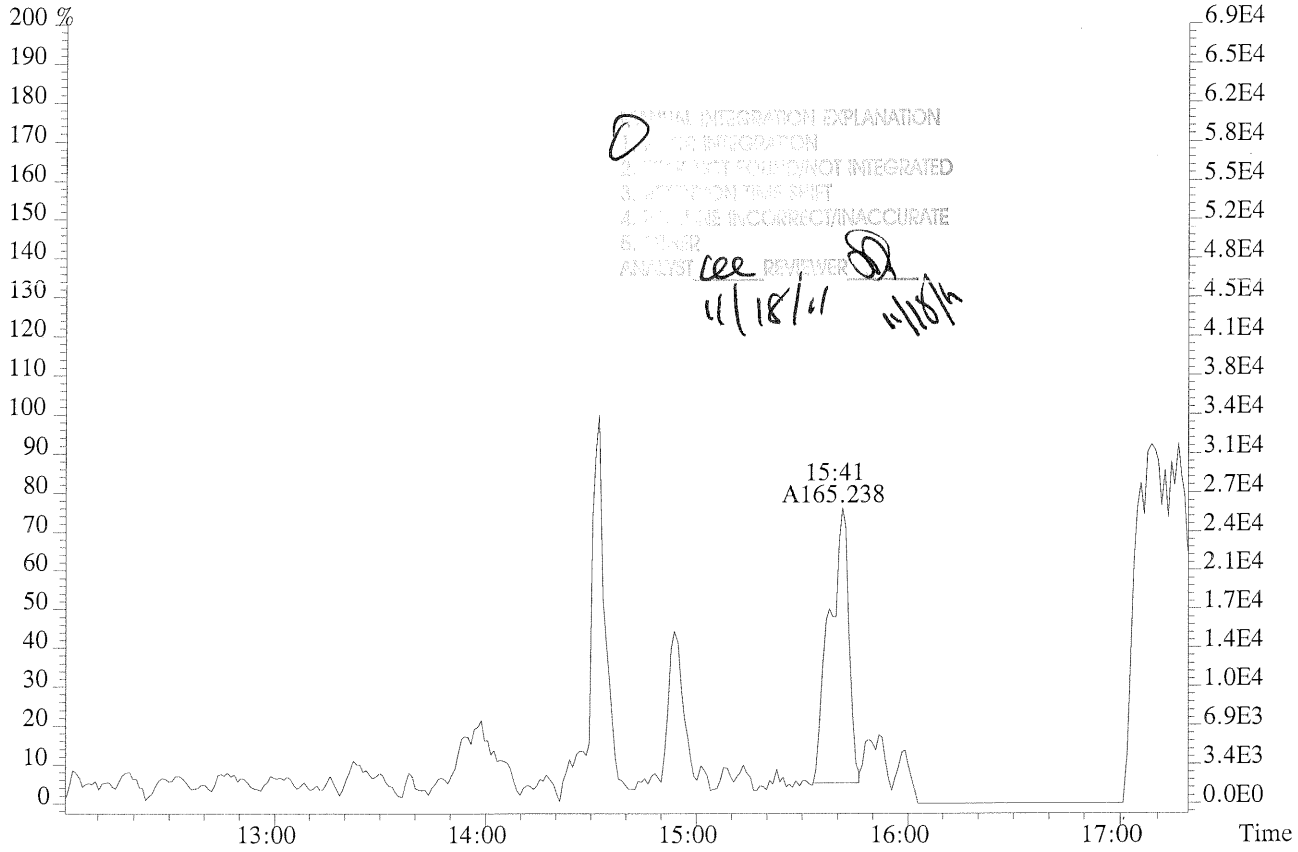
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142070 #1-341 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-010 B4-Blank-PC
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1512.0,1.00%,F,T)

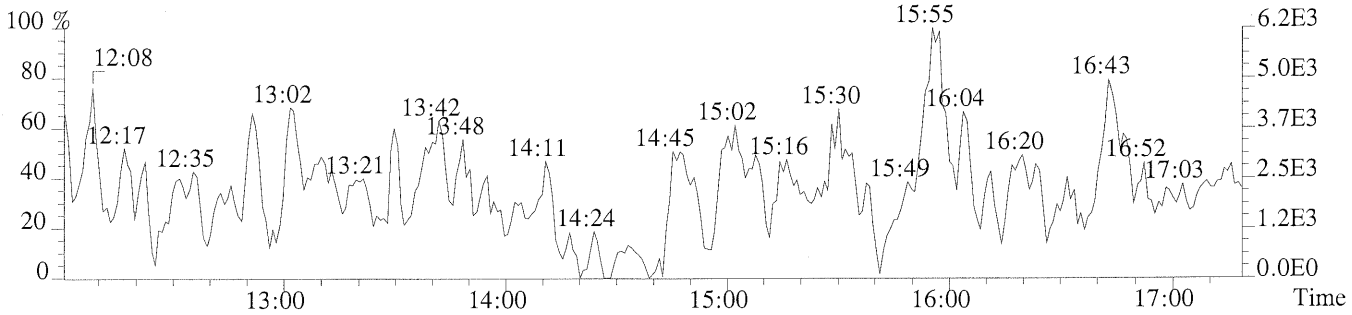


190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2364.0,1.00%,F,T)

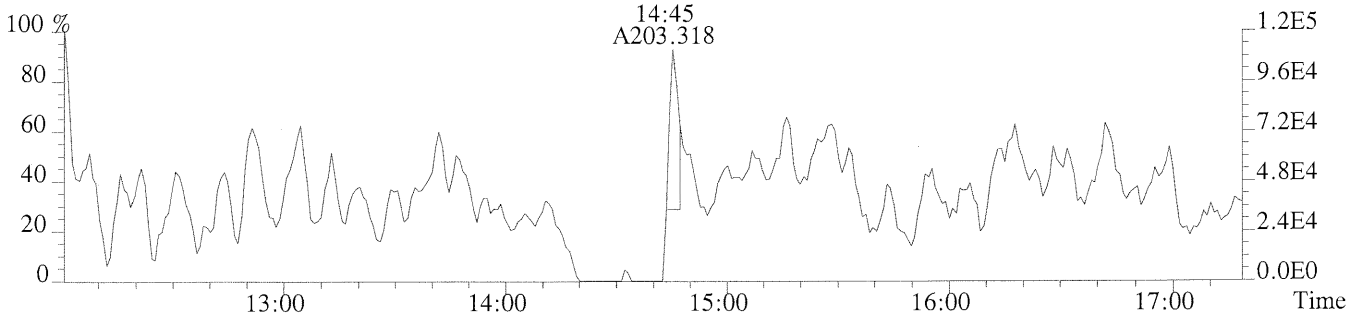


INITIAL INTEGRATION EXPLANATION
1. NO INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. PEAK SHAPE INCORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER SA
11/18/11 11/18/11

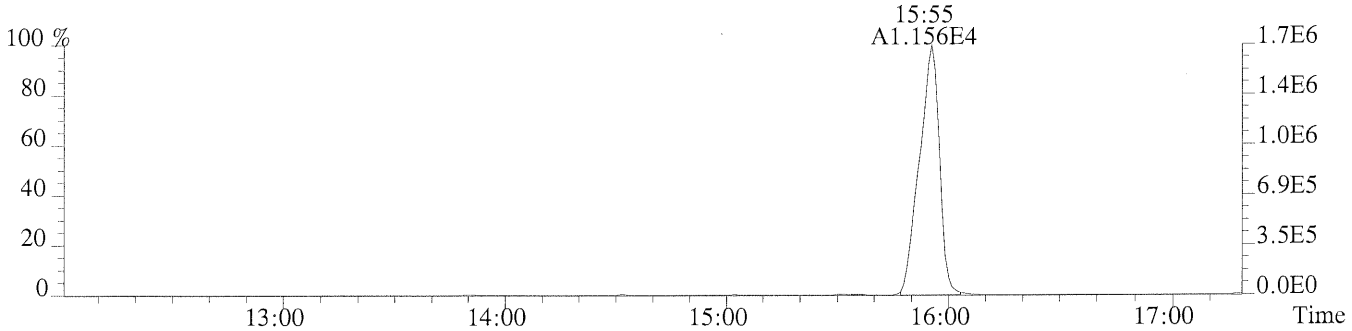
File:U142070 #1-341 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2844.0,1.00%,F,T)



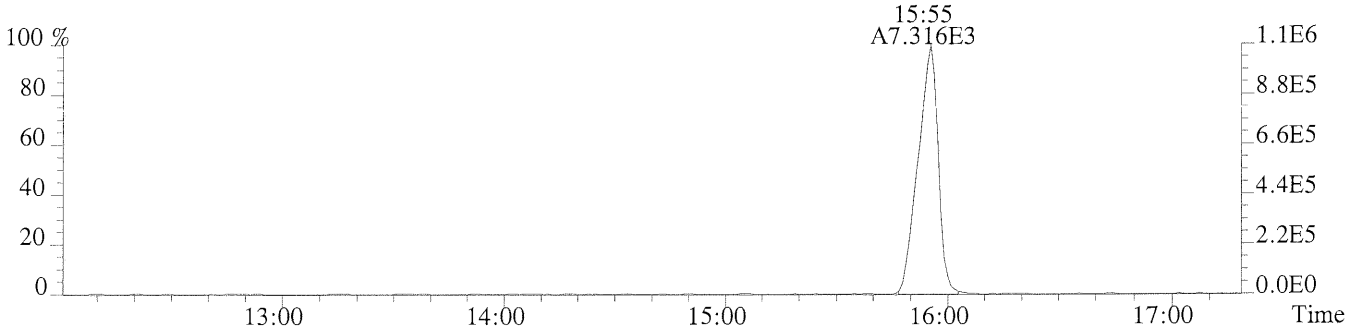
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,52384.0,1.00%,F,T)



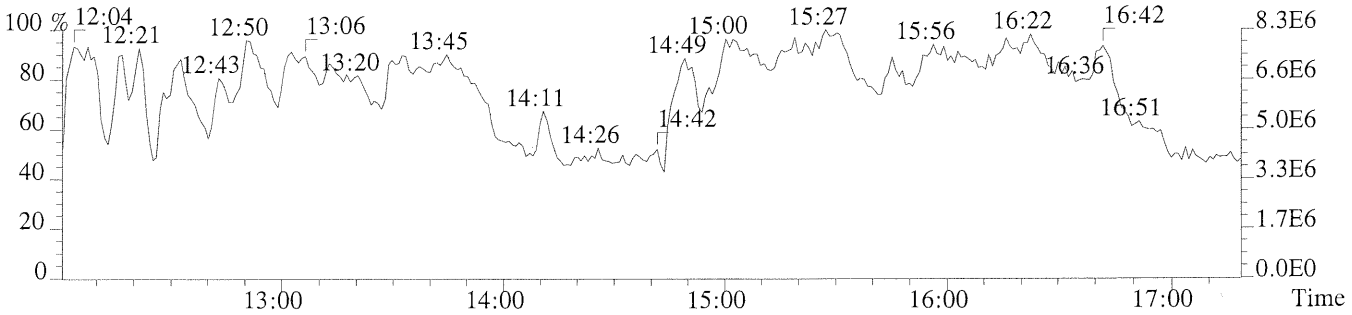
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1416.0,1.00%,F,T)



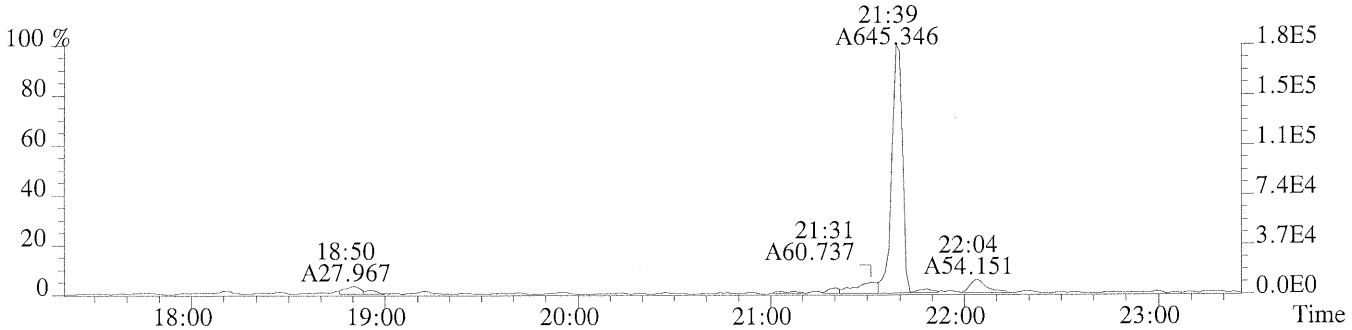
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1504.0,1.00%,F,T)



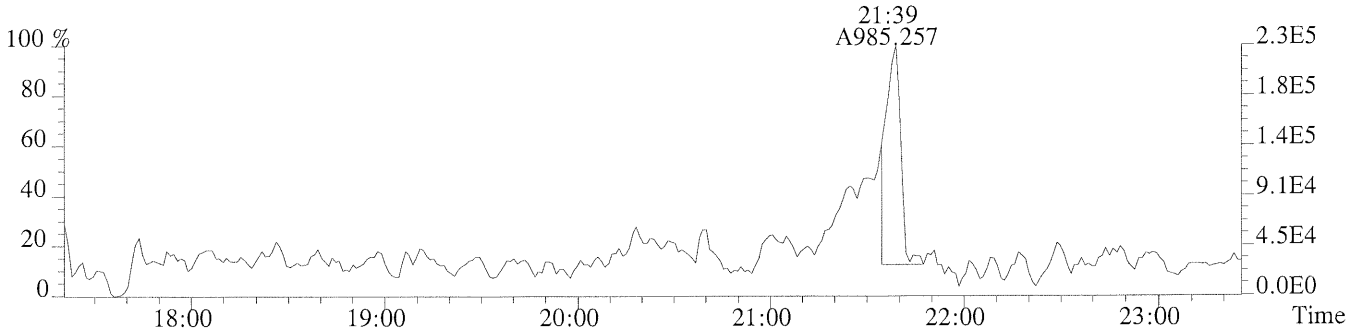
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



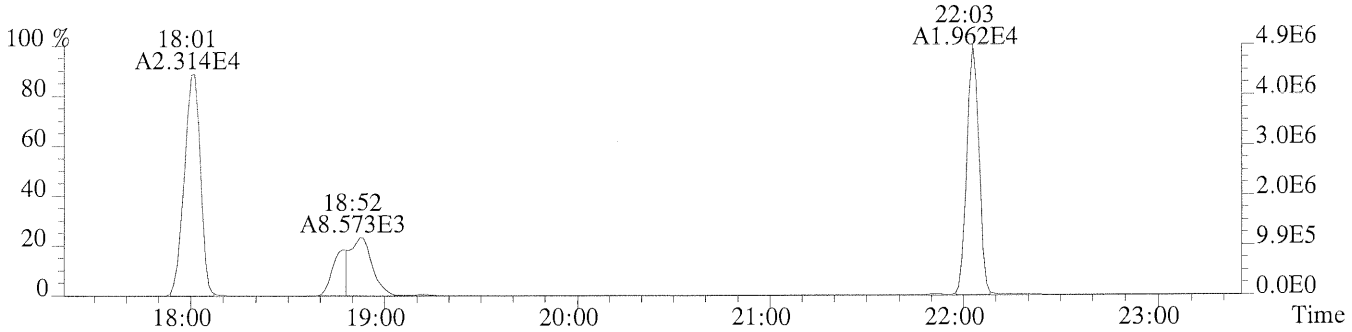
File:U142070 #1-336 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1520.0,1.00%,F,T)



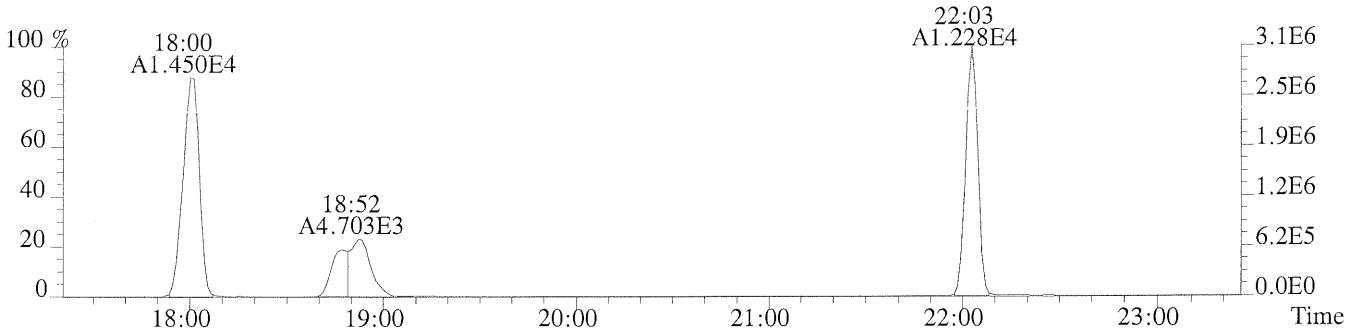
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,39280.0,1.00%,F,T)



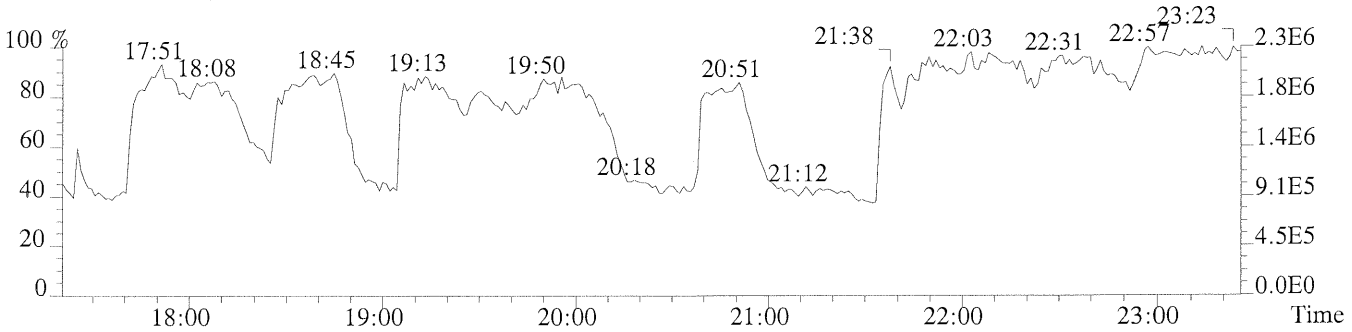
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1864.0,1.00%,F,T)



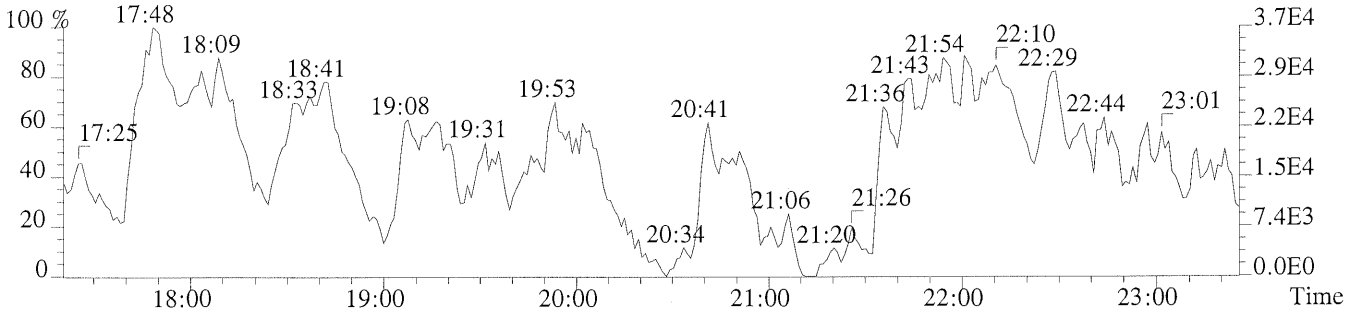
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1408.0,1.00%,F,T)



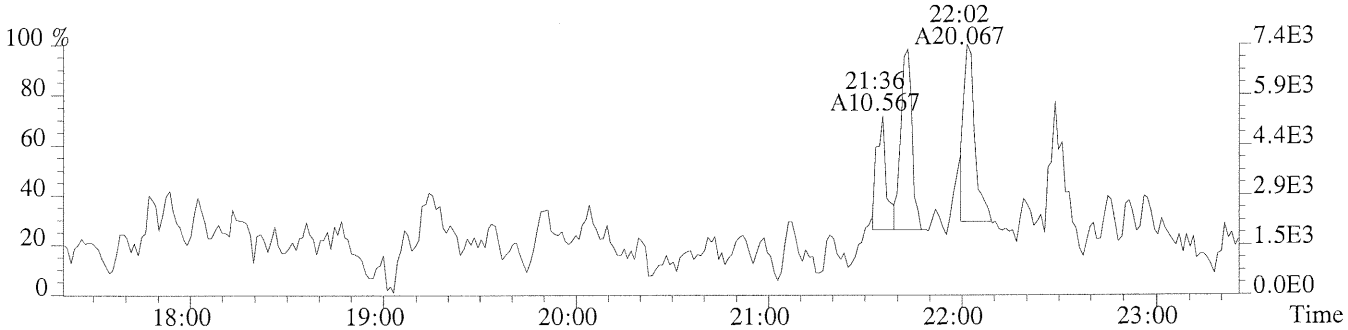
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



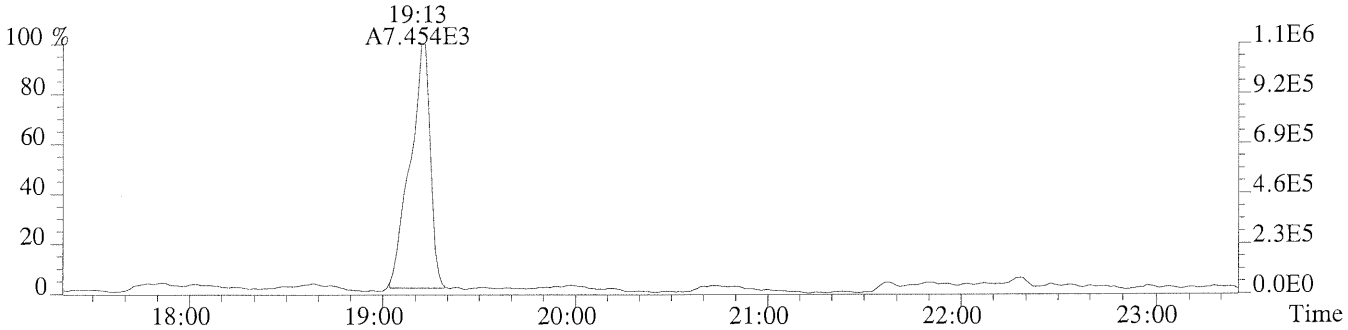
File:U142070 #1-336 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,22548.0,1.00%,F,T)



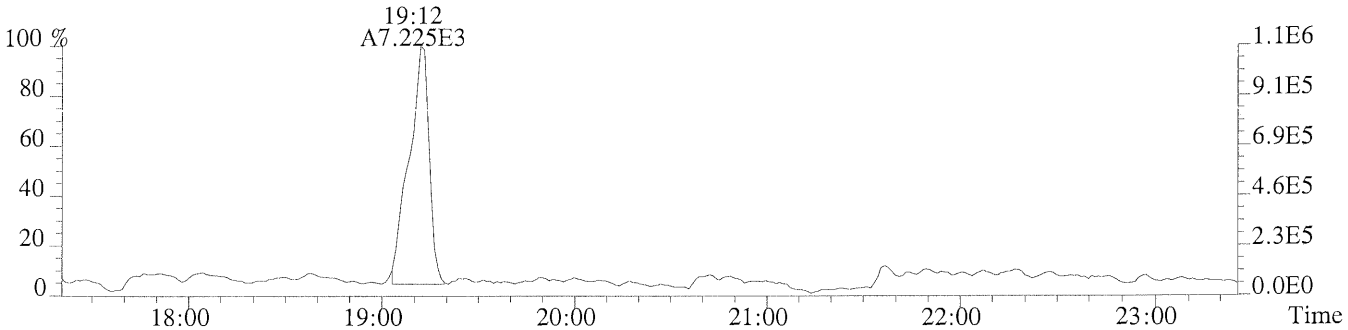
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2148.0,1.00%,F,T)



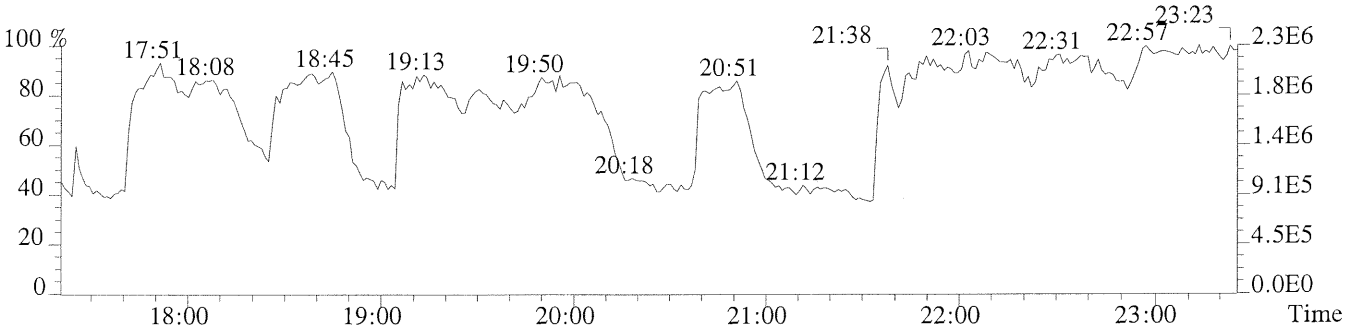
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,40172.0,1.00%,F,T)



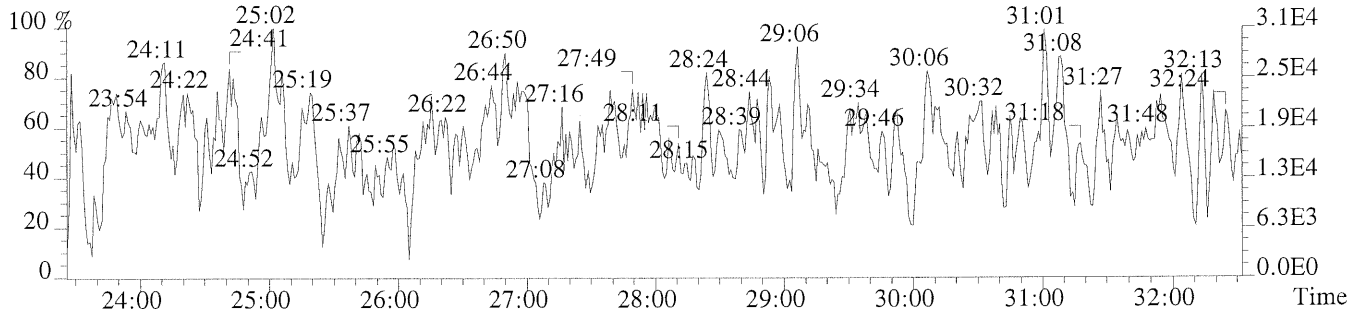
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,99516.0,1.00%,F,T)



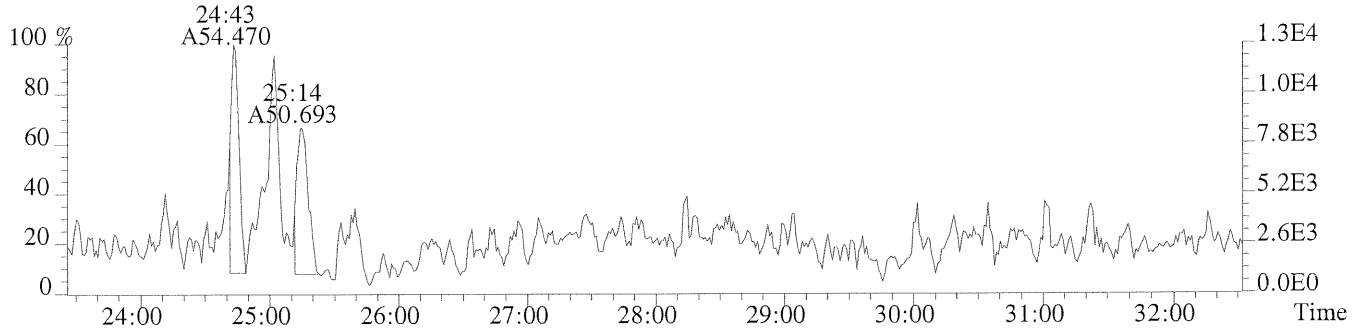
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



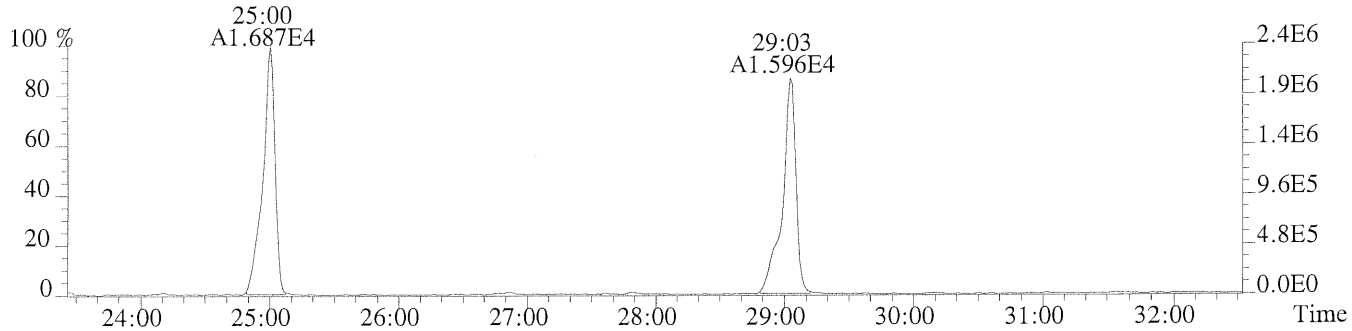
File:U142070 #1-582 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,22396.0,1.00%,F,T)



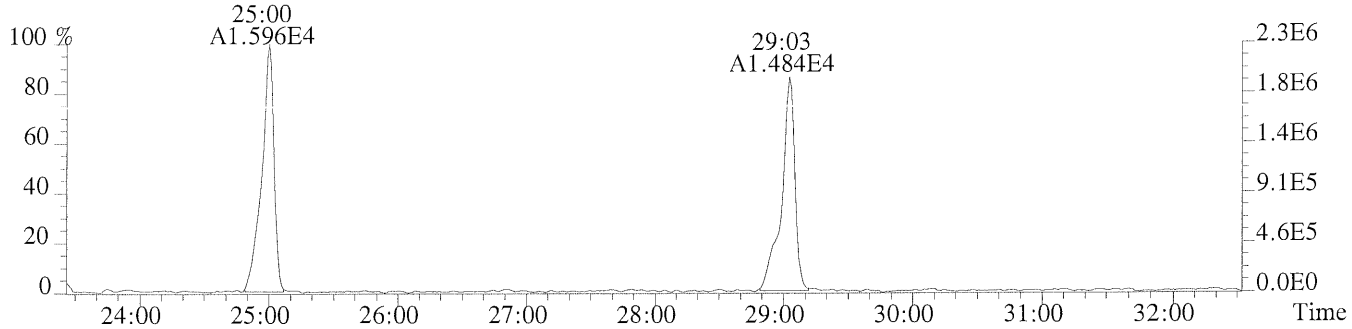
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3568.0,1.00%,F,T)



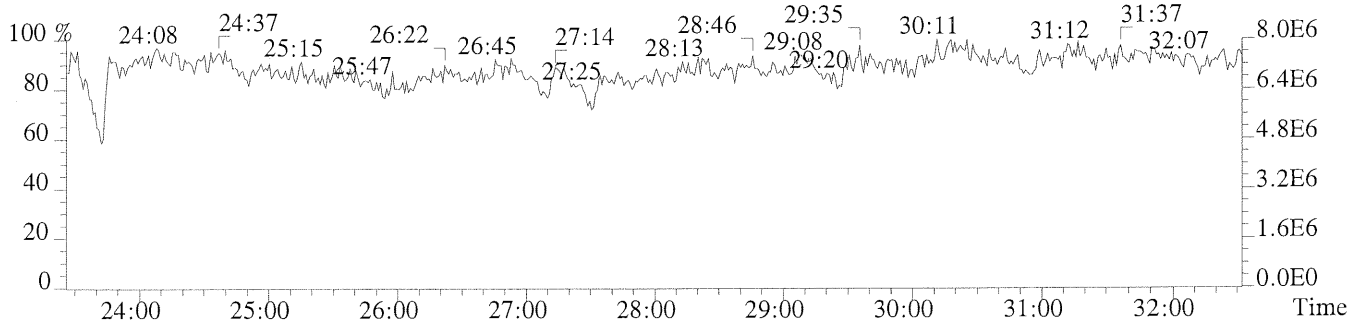
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11880.0,1.00%,F,T)



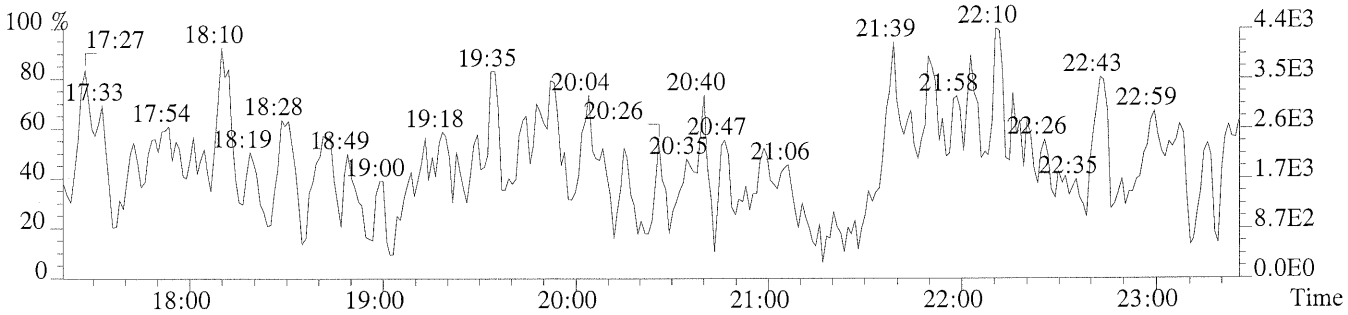
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23116.0,1.00%,F,T)



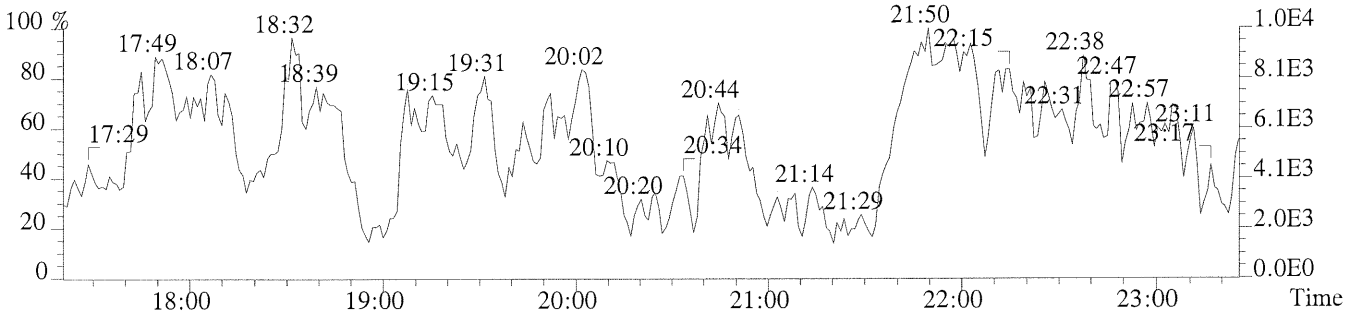
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



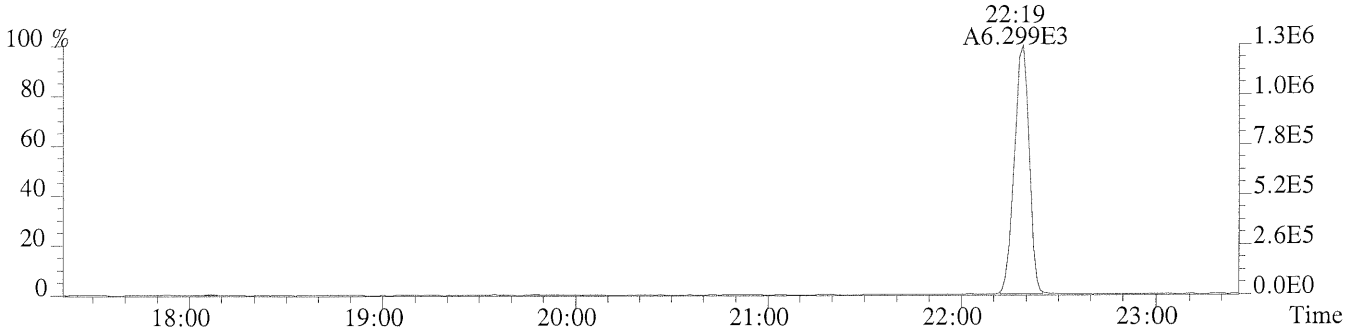
File:U142070 #1-336 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2544.0,1.00%,F,T)



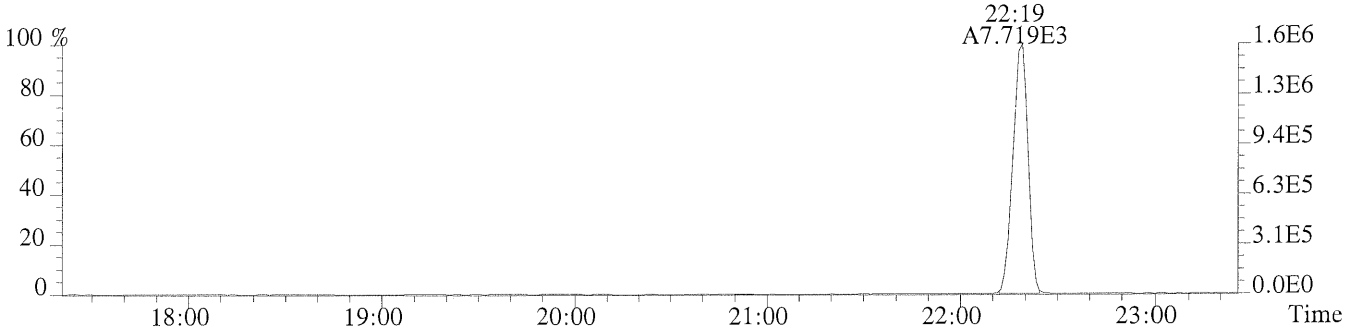
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7520.0,1.00%,F,T)



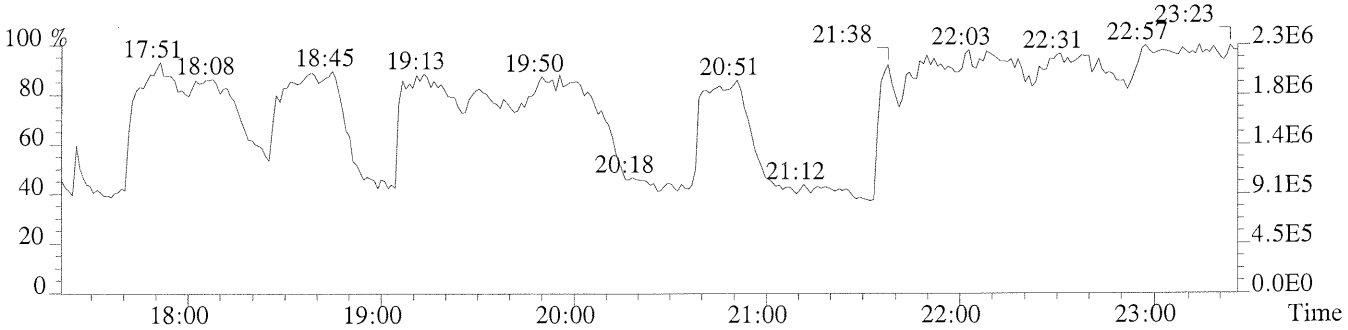
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2944.0,1.00%,F,T)



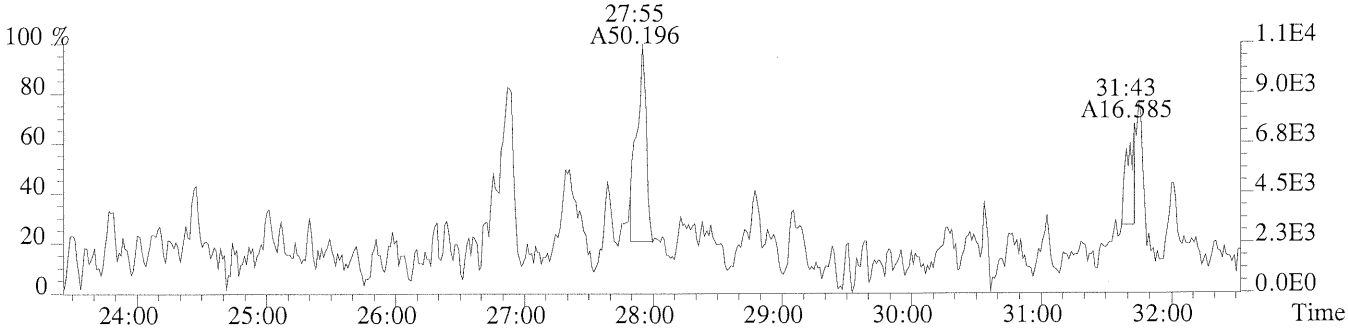
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2936.0,1.00%,F,T)



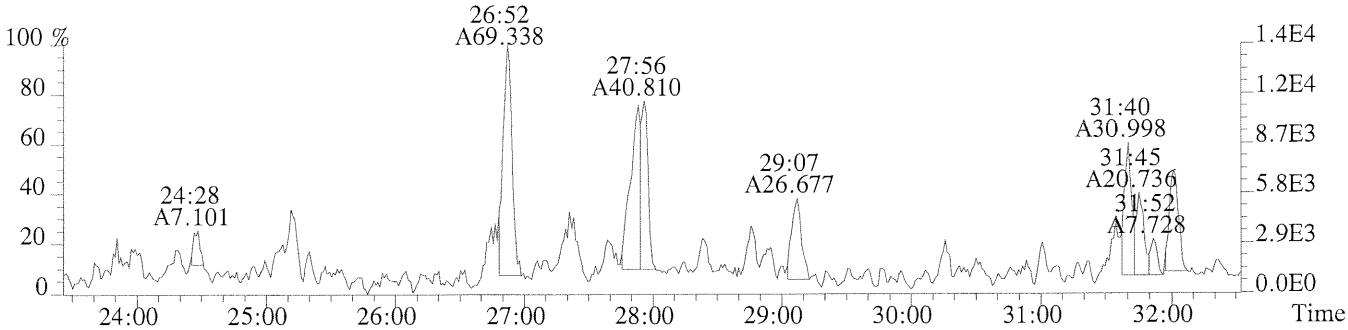
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



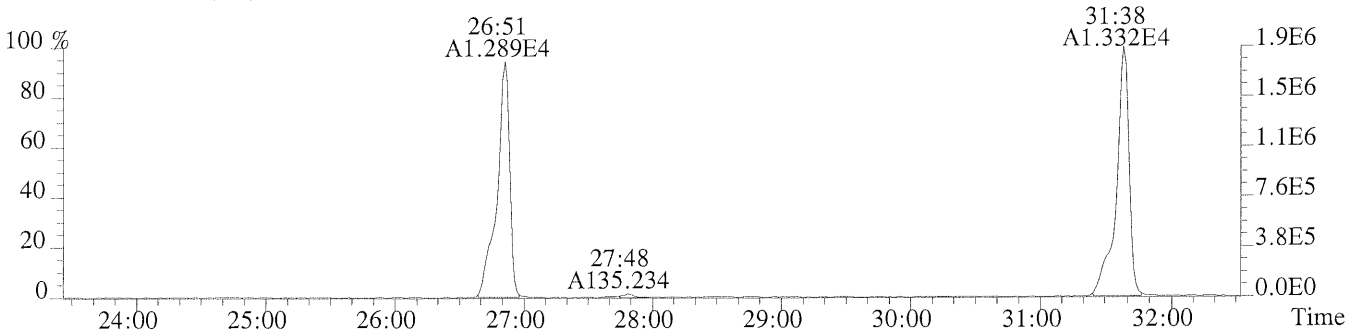
File:U142070 #1-582 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2412.0,1.00%,F,T)



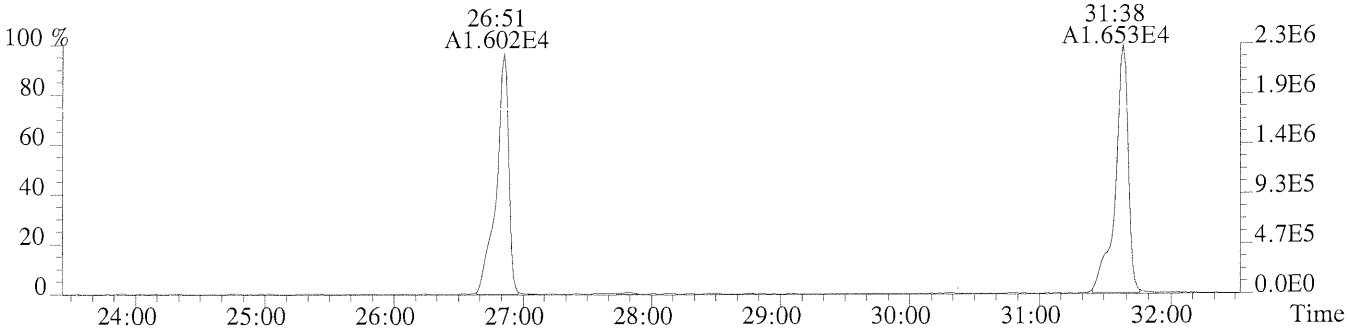
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1556.0,1.00%,F,T)



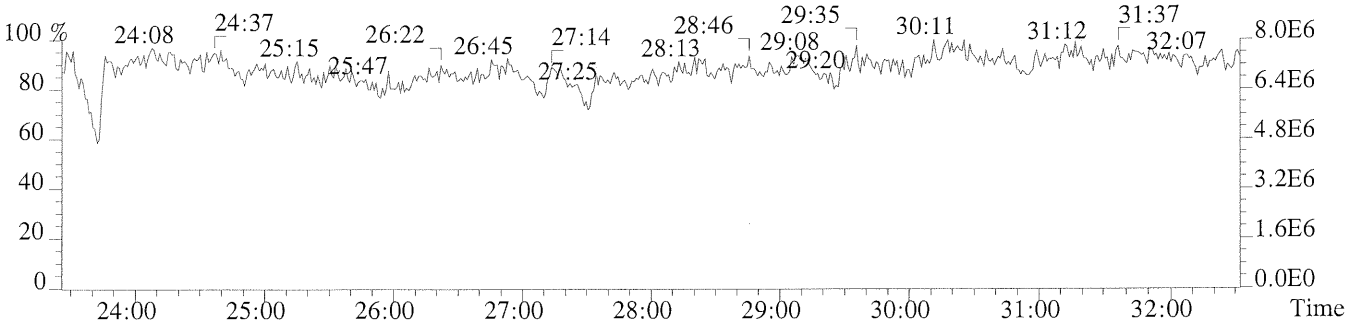
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3268.0,1.00%,F,T)



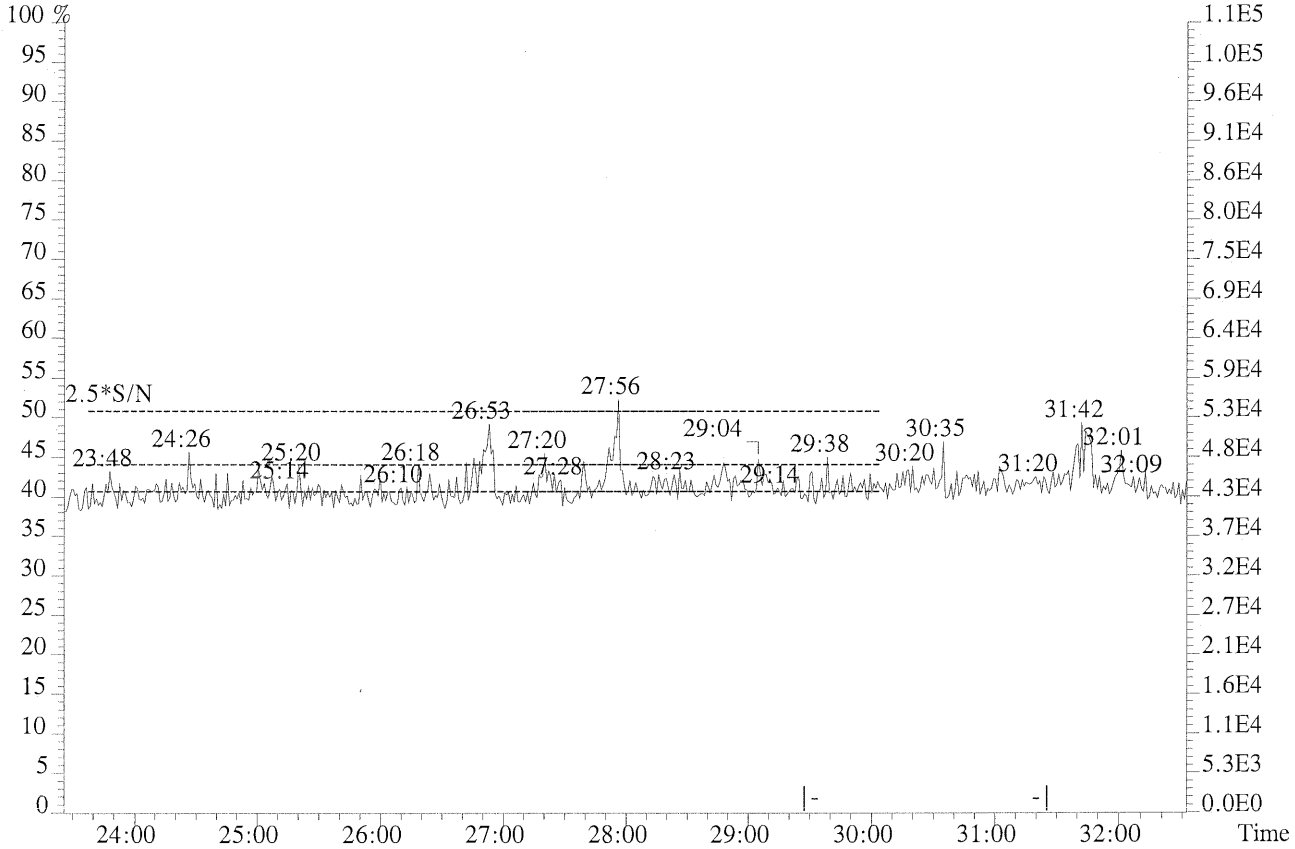
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3124.0,1.00%,F,T)



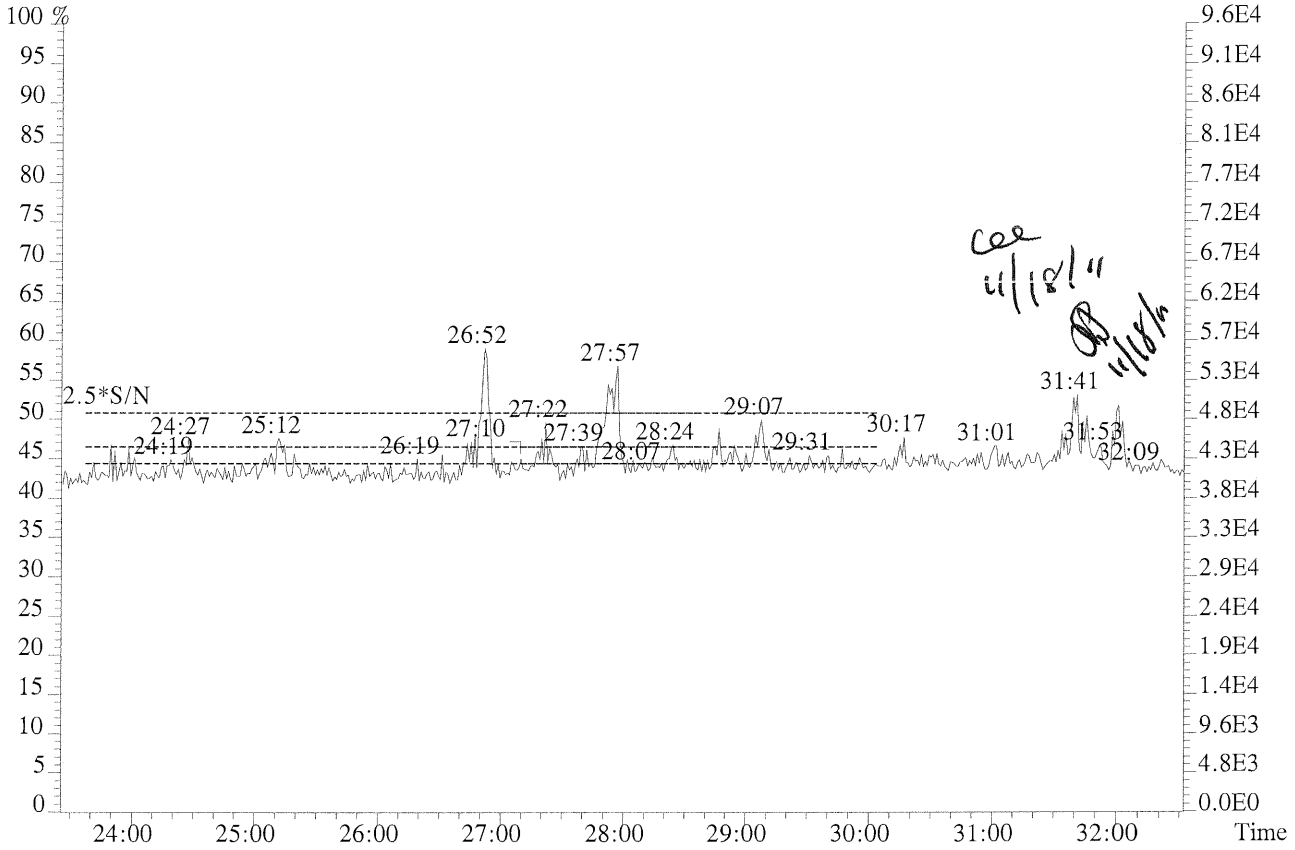
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142070 #1-582 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-010 B4-Blank-PC
289.9224 F:3



291.9194 F:3



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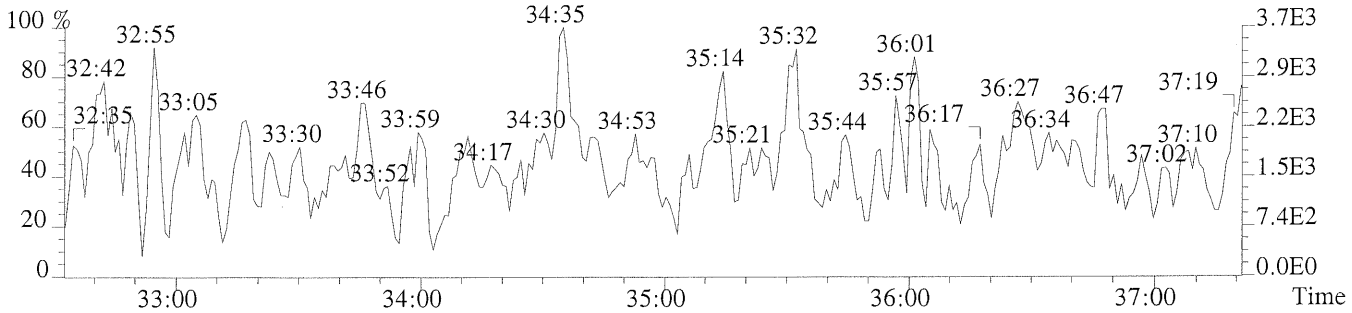
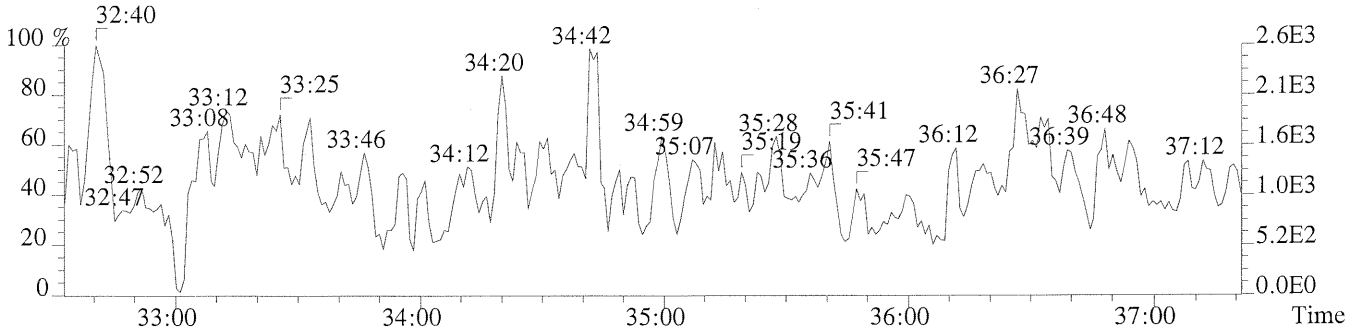
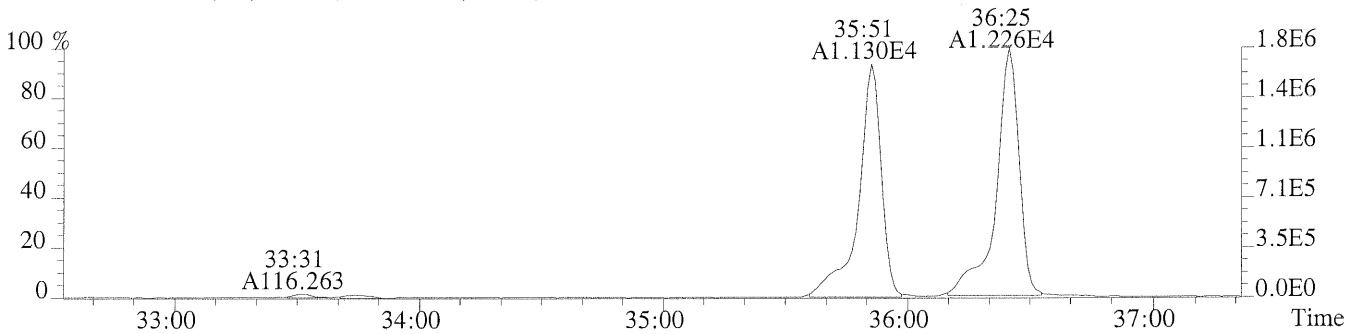
File:U142070 #1-308 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2104.0,1.00%,F,T)



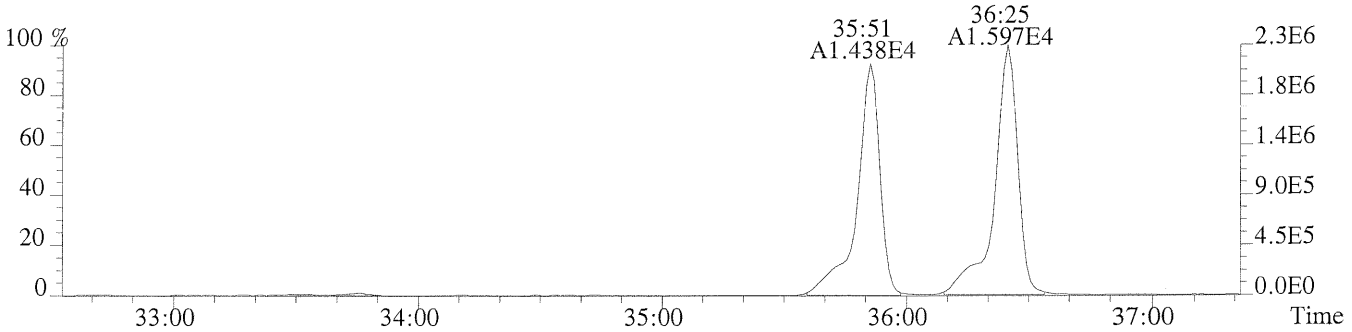
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1540.0,1.00%,F,T)



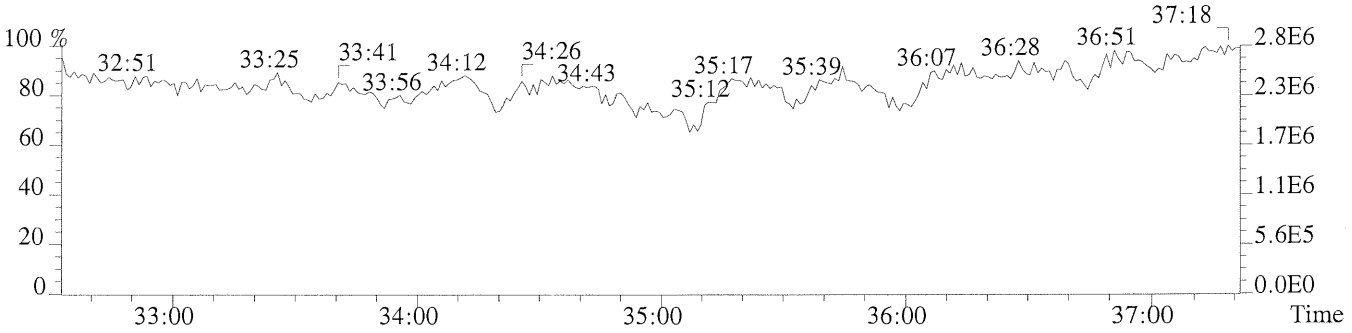
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4916.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3196.0,1.00%,F,T)

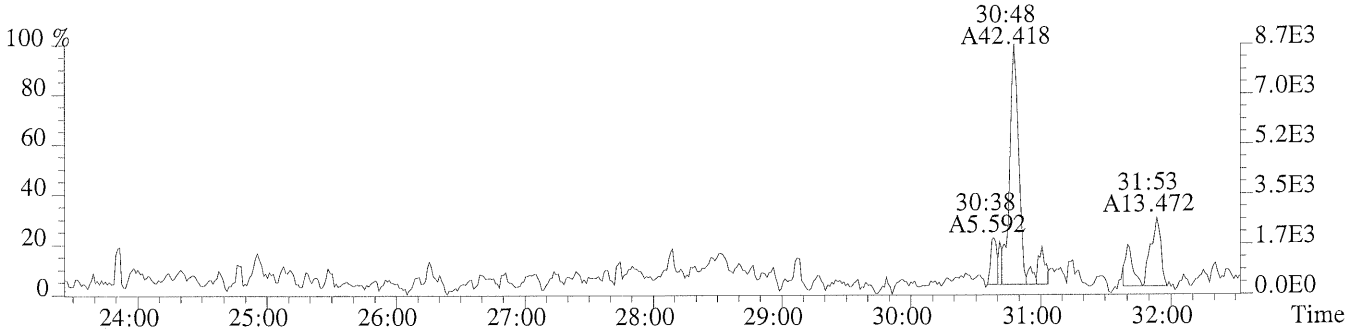


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

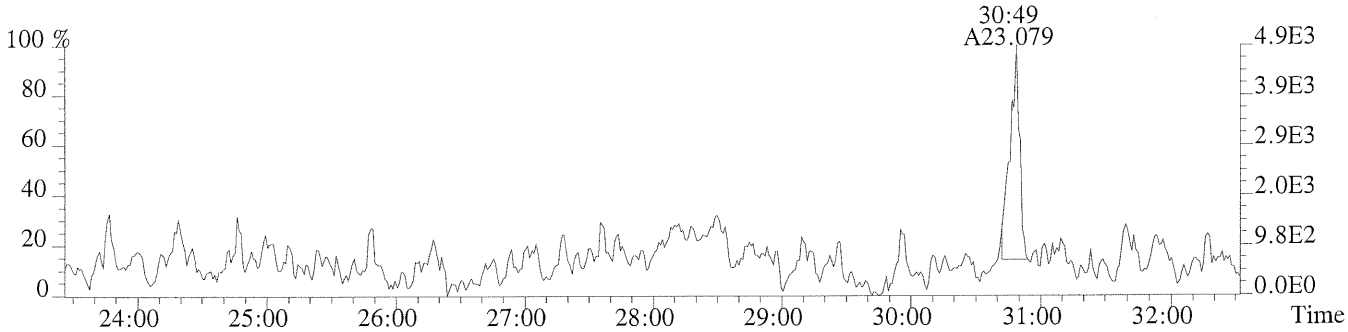


File:U142070 #1-582 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC

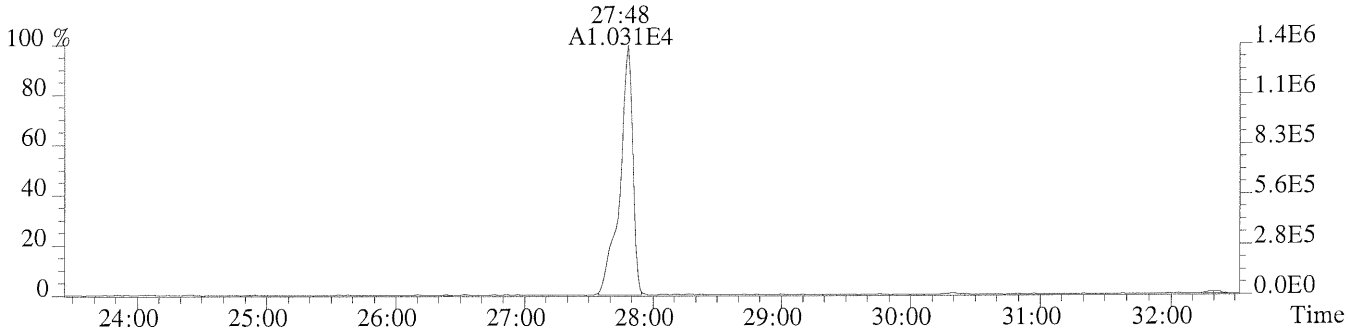
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,688.0,1.00%,F,T)



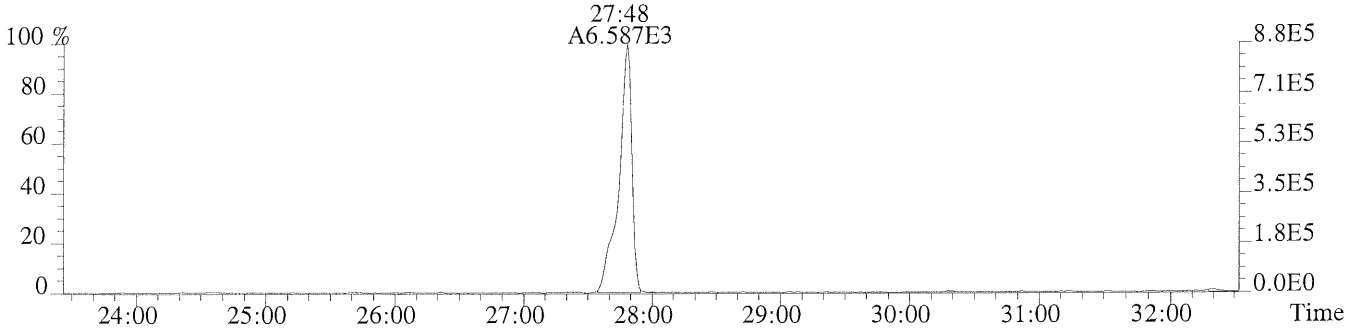
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,780.0,1.00%,F,T)



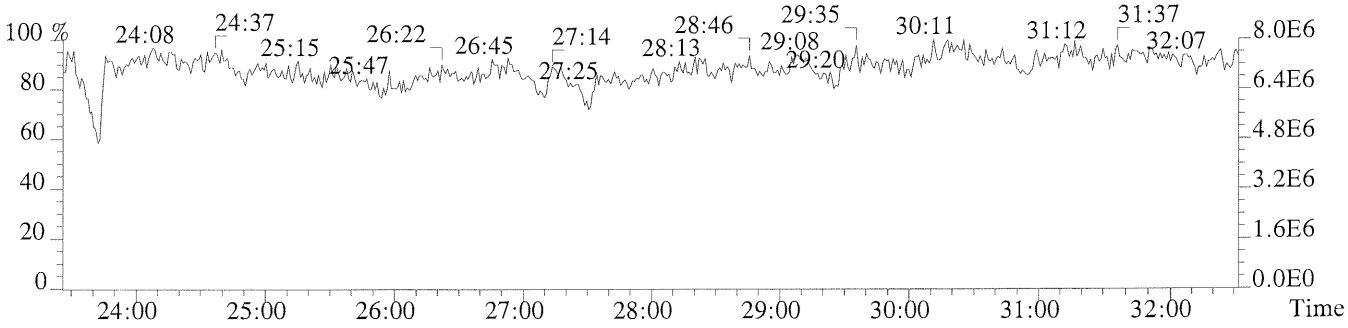
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5060.0,1.00%,F,T)



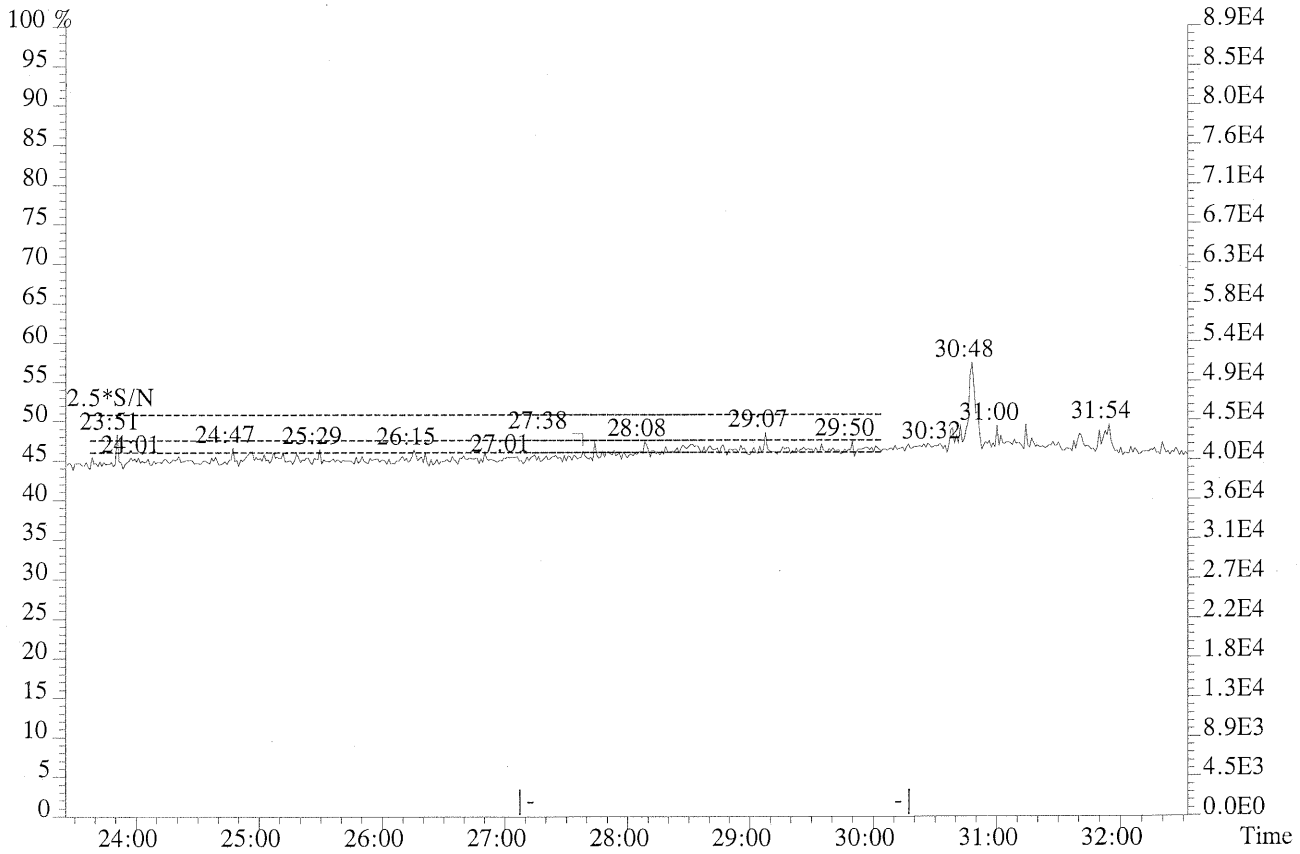
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2852.0,1.00%,F,T)



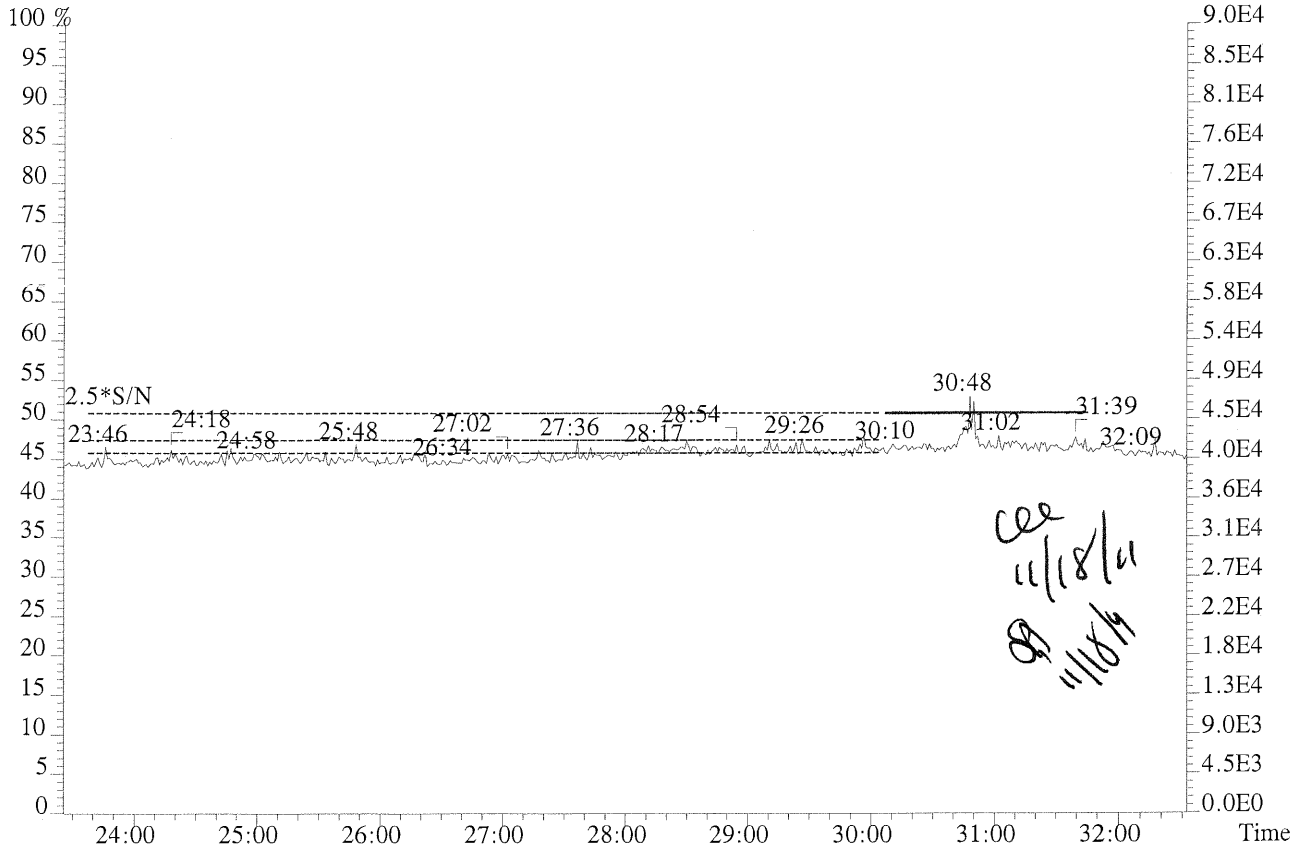
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142070 #1-582 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-010 B4-Blank-PC
325.8804 F:3



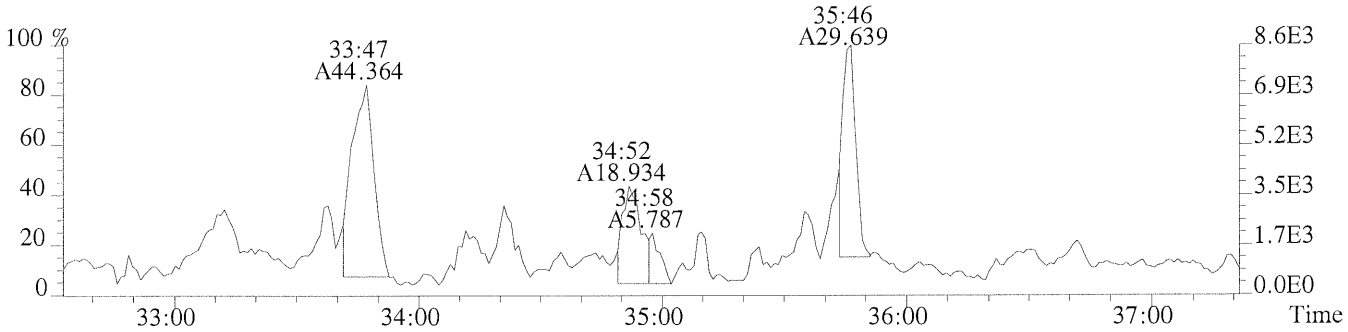
327.8775 F:3



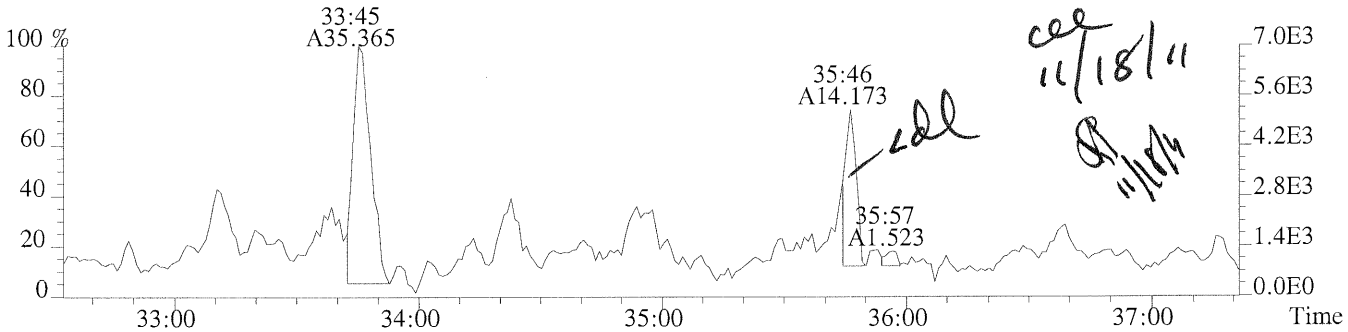
cee 11/18/11
11/18/11

File:U142070 #1-308 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC

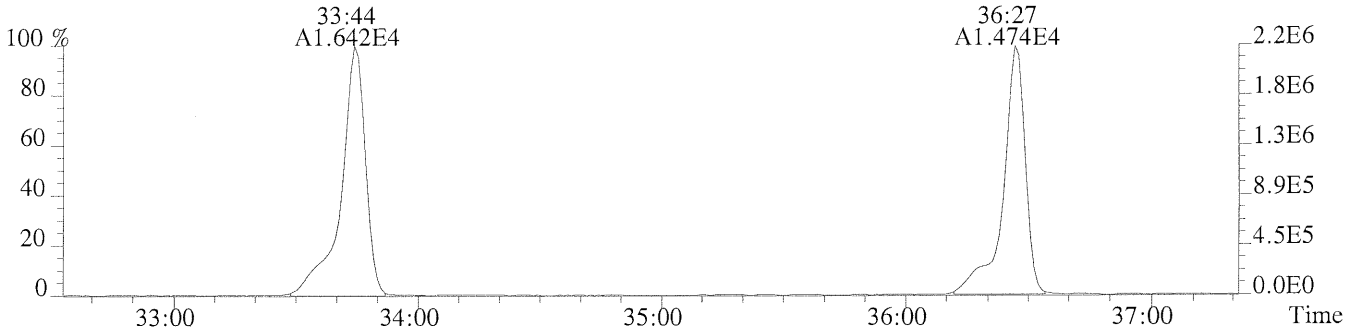
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1416.0,1.00%,F,T)



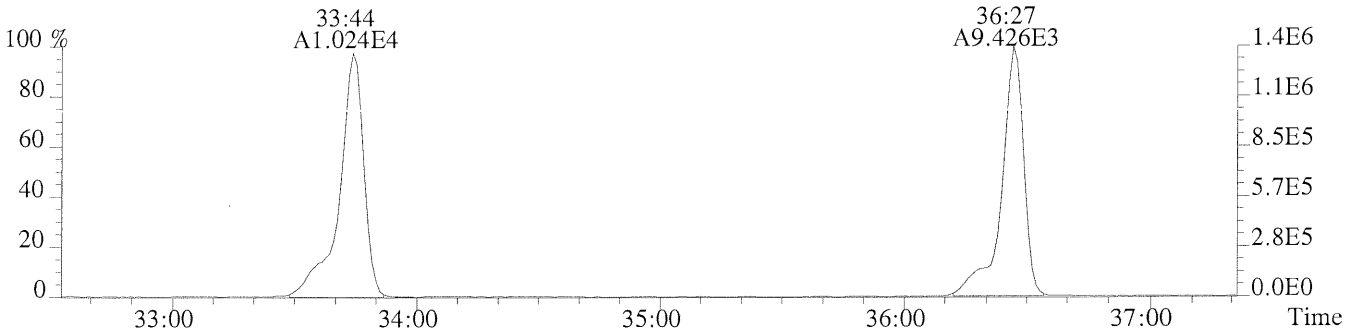
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1528.0,1.00%,F,T)



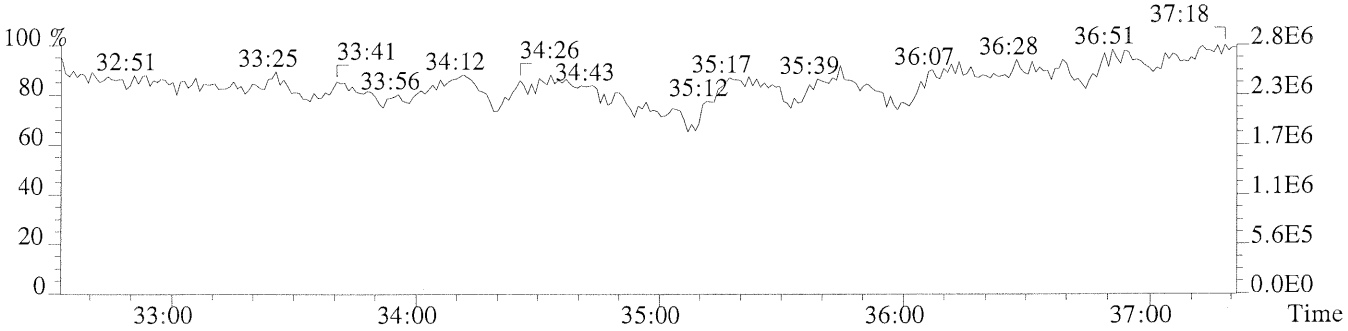
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4272.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3036.0,1.00%,F,T)

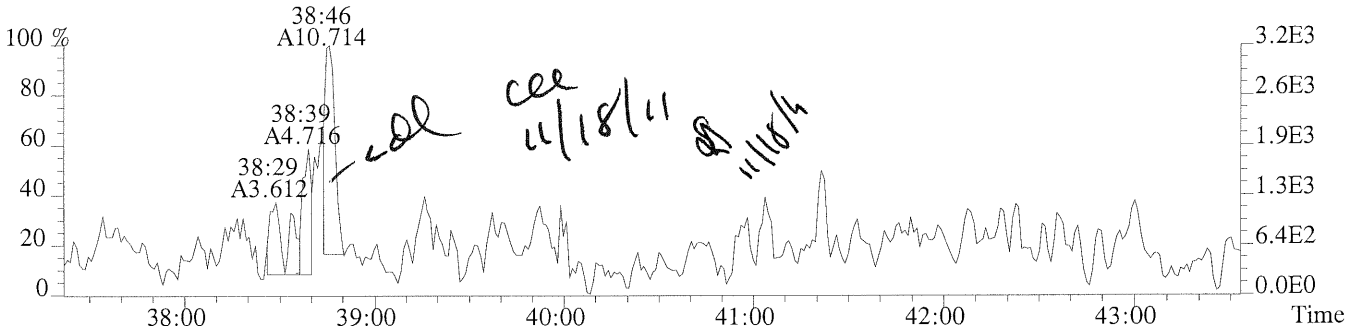


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

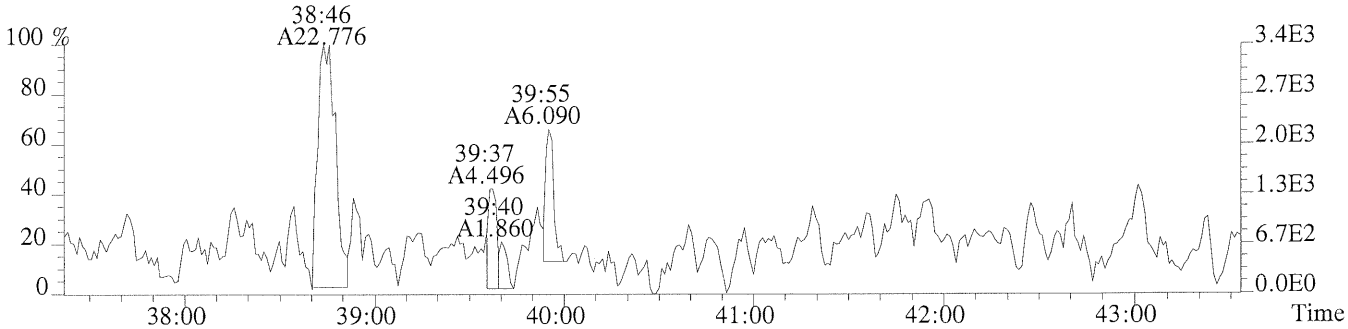


File:U142070 #1-396 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC

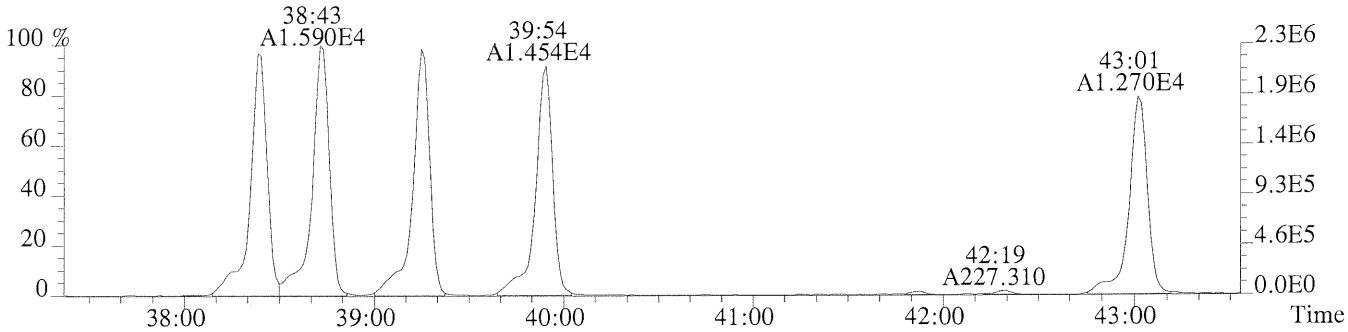
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,684.0,1.00%,F,T)



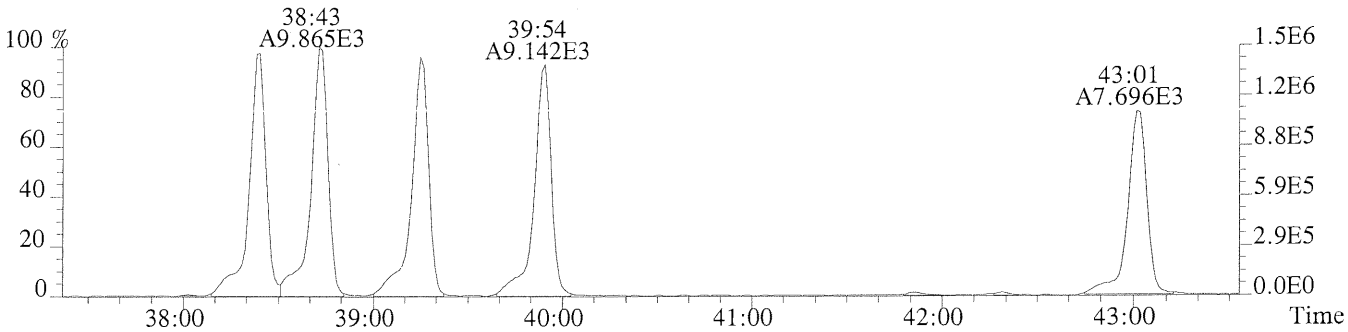
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)



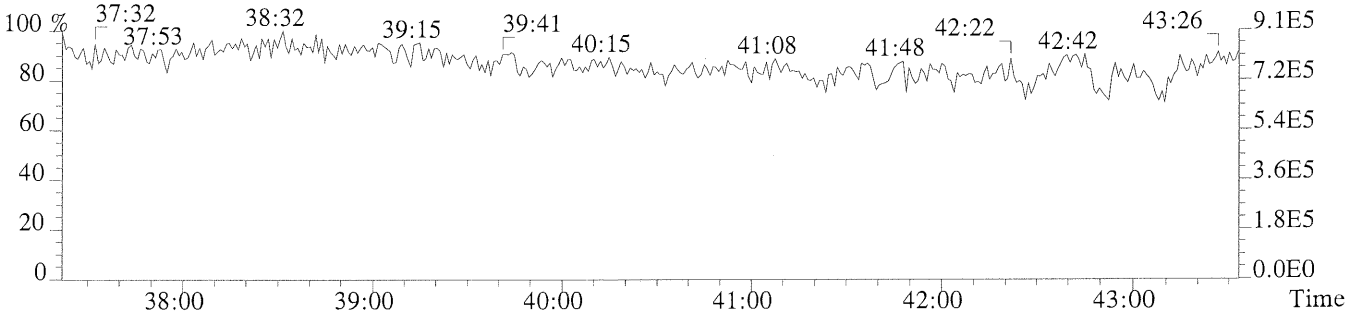
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2676.0,1.00%,F,T)



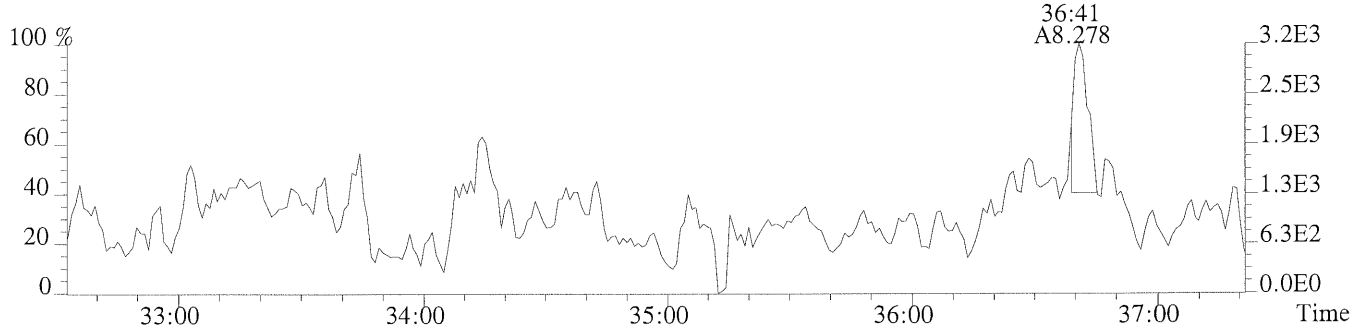
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3028.0,1.00%,F,T)



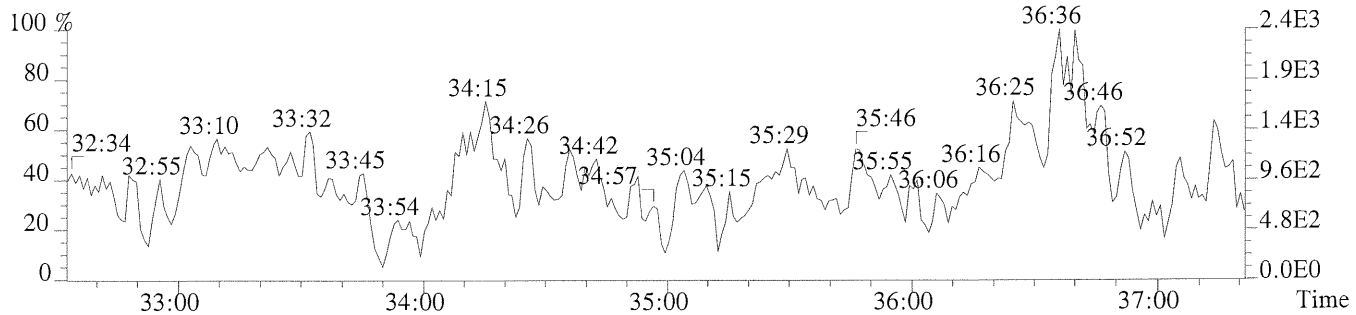
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



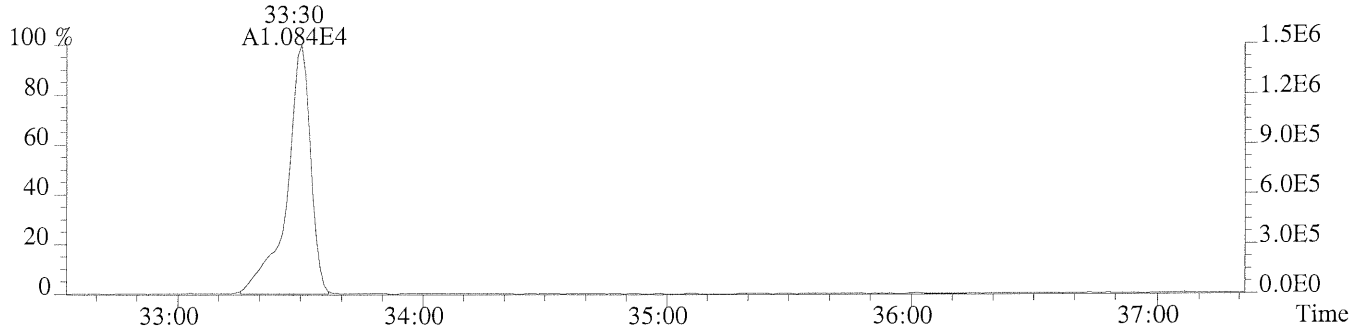
File:U142070 #1-308 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1320.0,1.00%,F,T)



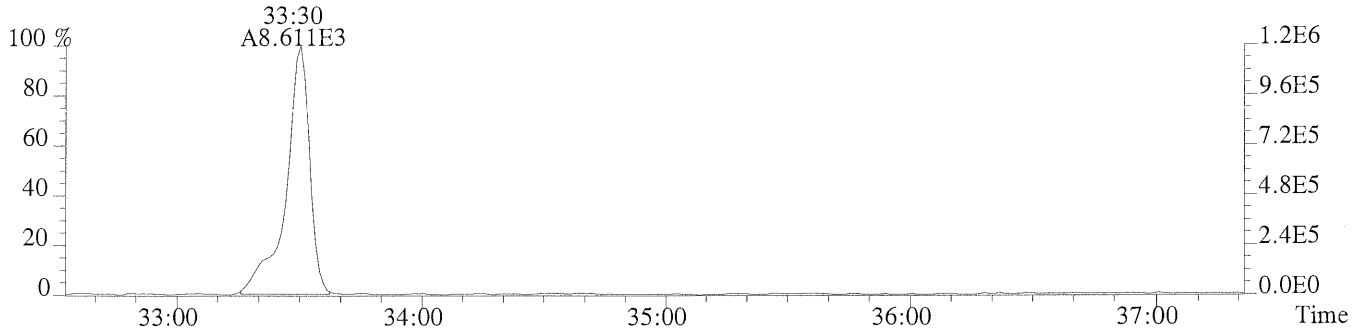
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)



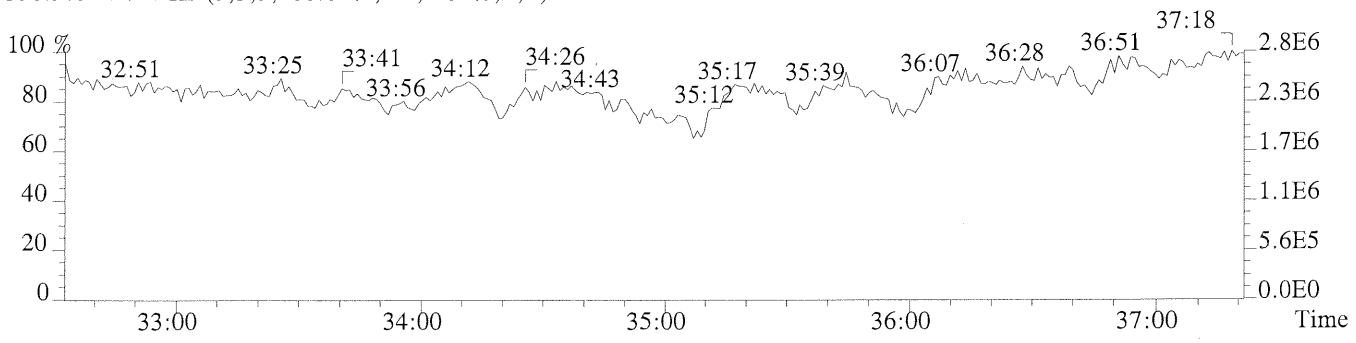
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4024.0,1.00%,F,T)



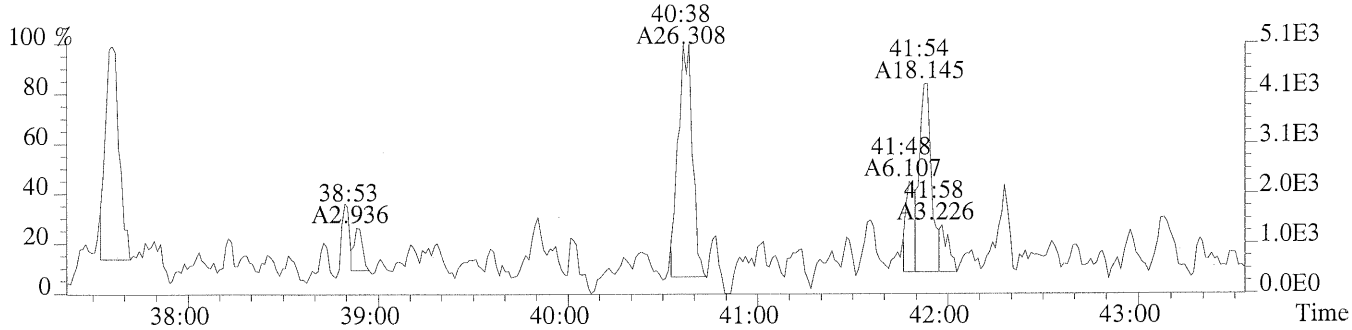
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7152.0,1.00%,F,T)



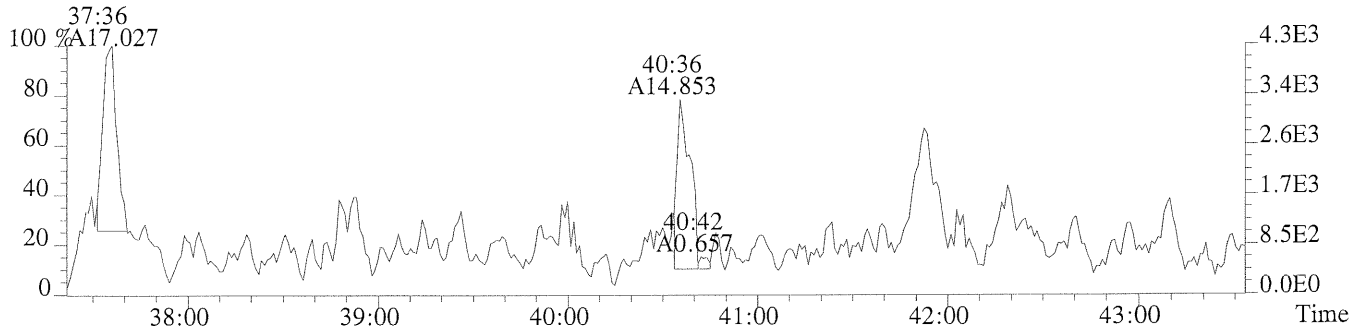
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



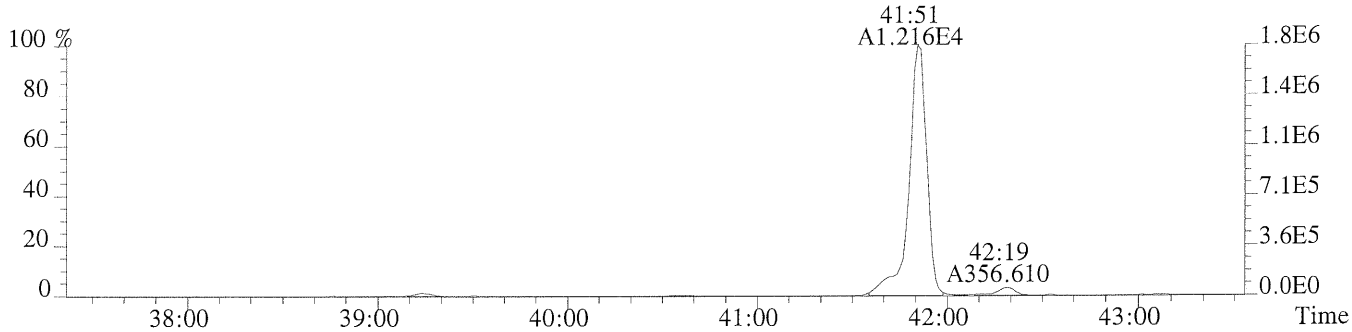
File:U142070 #1-396 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



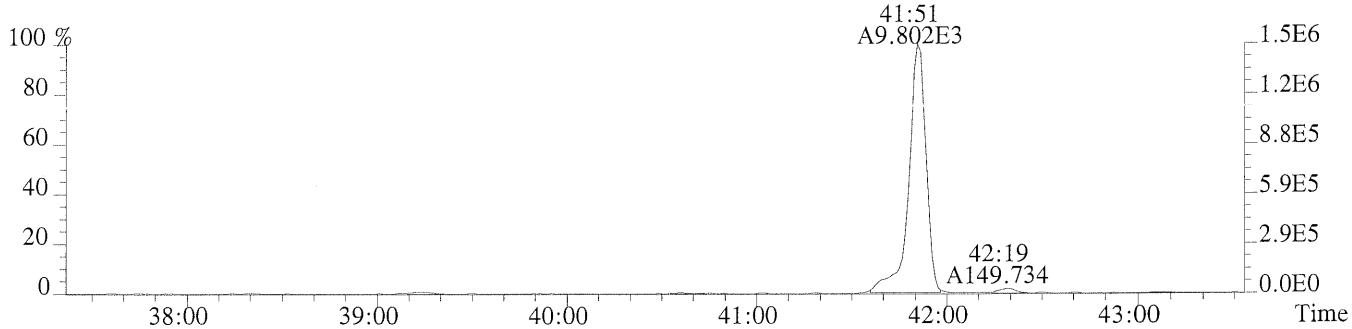
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1016.0,1.00%,F,T)



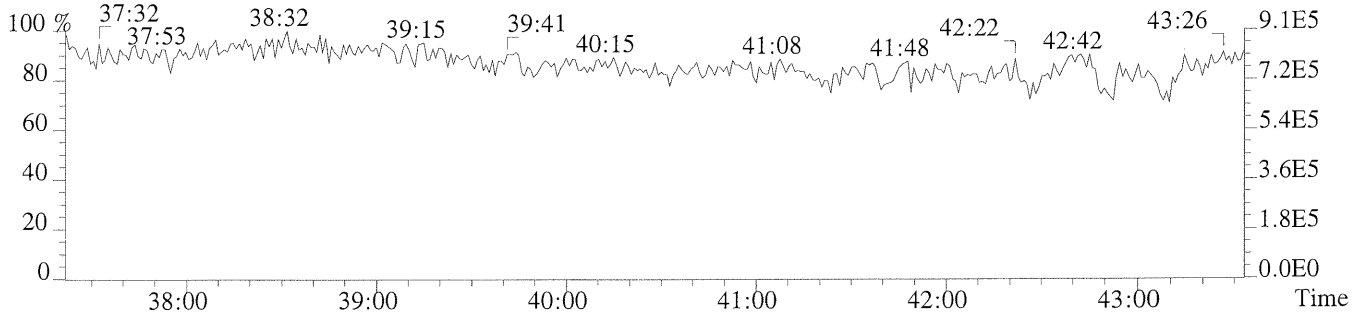
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)



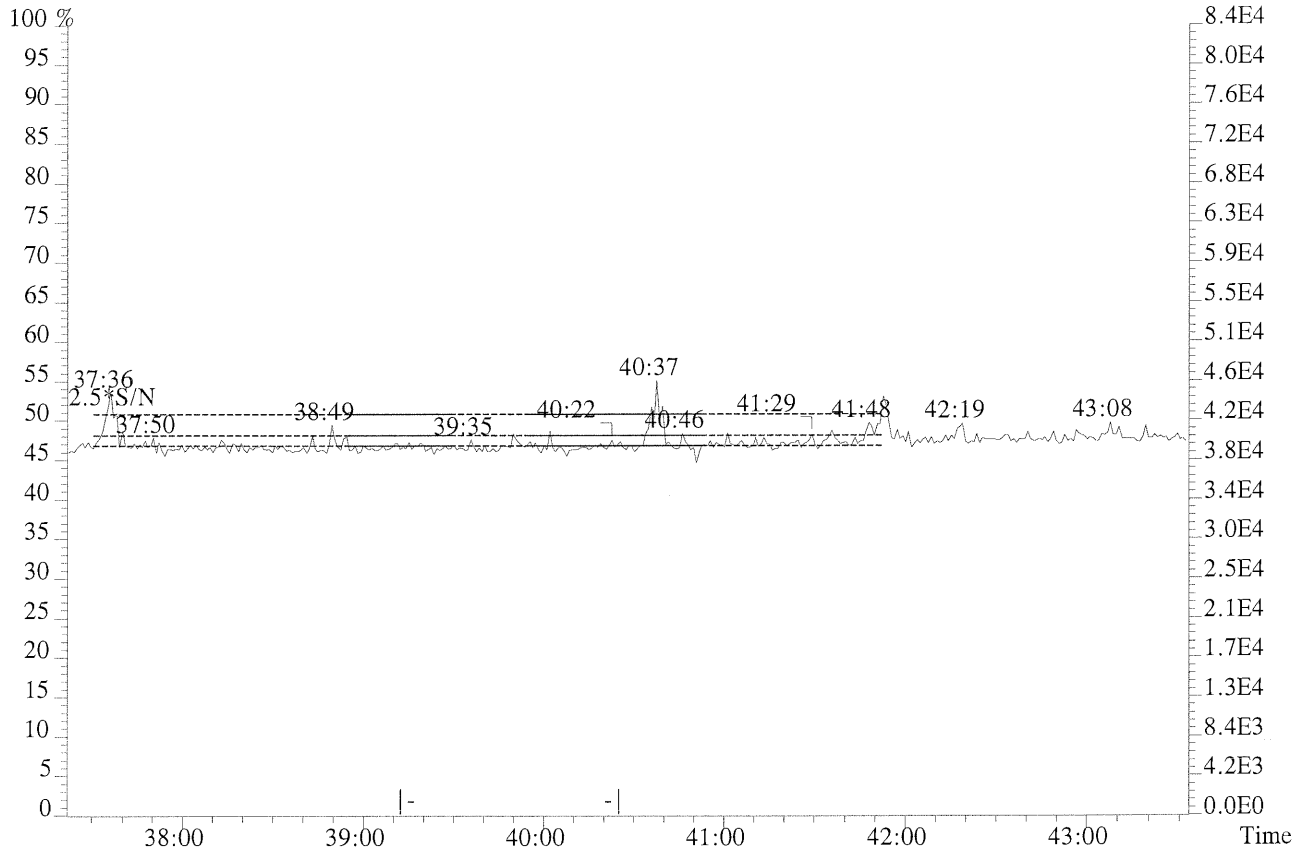
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1940.0,1.00%,F,T)



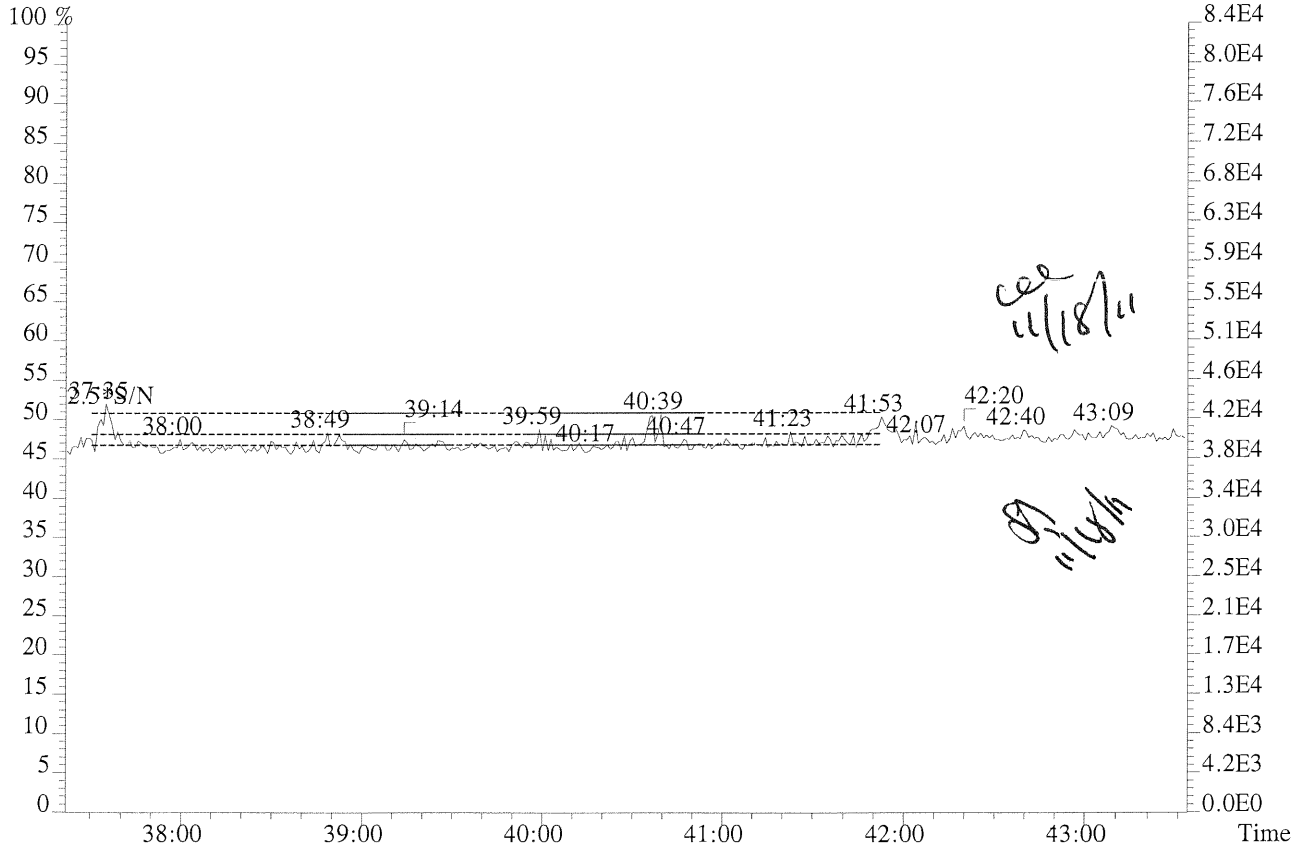
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



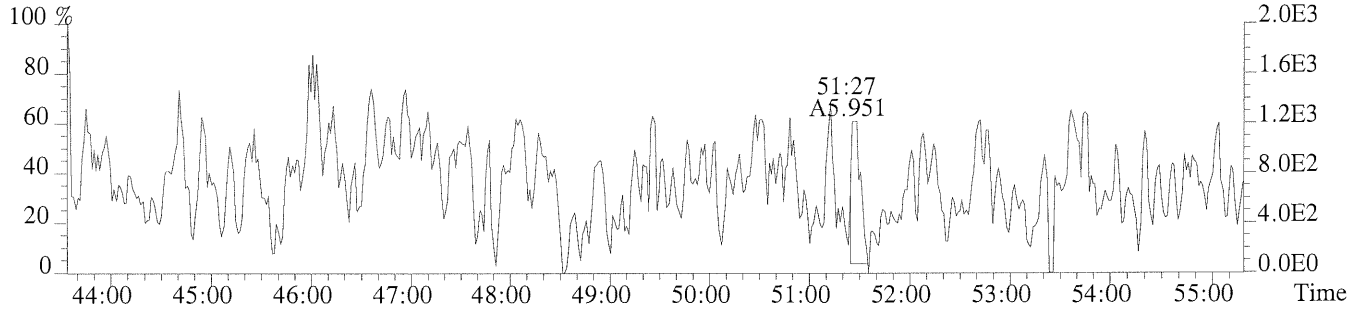
File:U142070 #1-396 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-010 B4-Blank-PC
359.8415 F:5



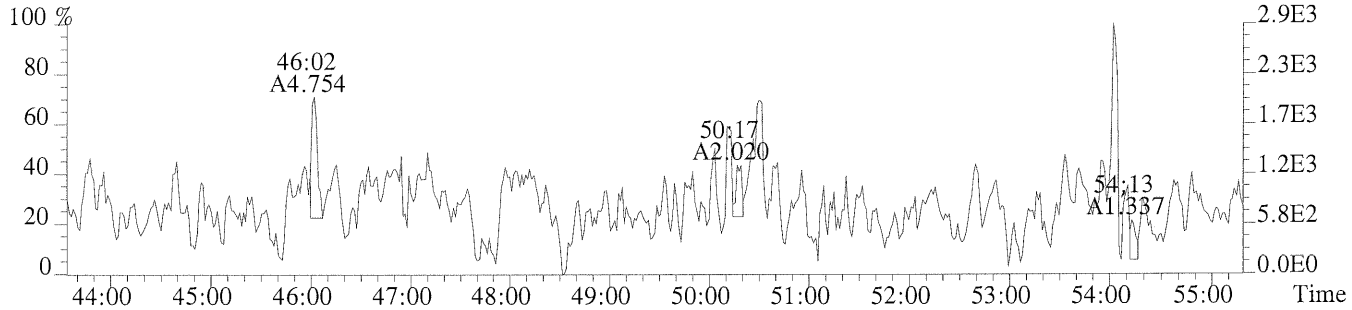
361.8385 F:5



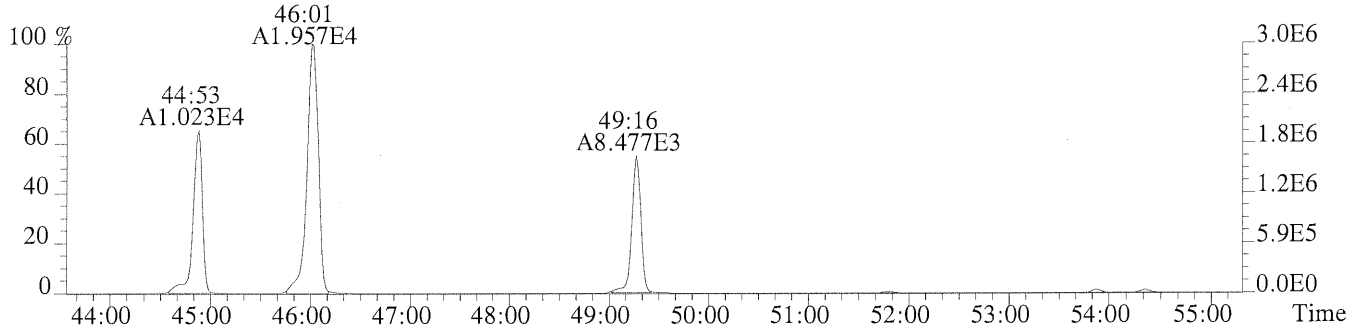
File:U142070 #1-582 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)



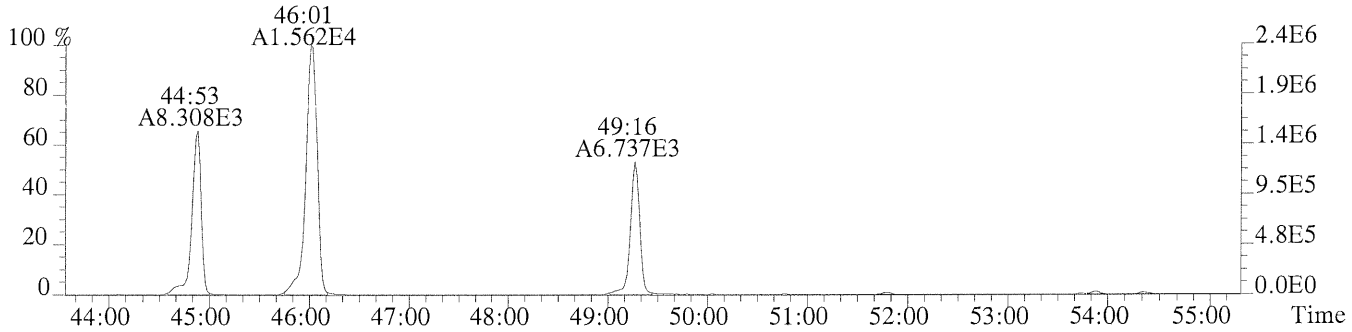
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,988.0,1.00%,F,T)



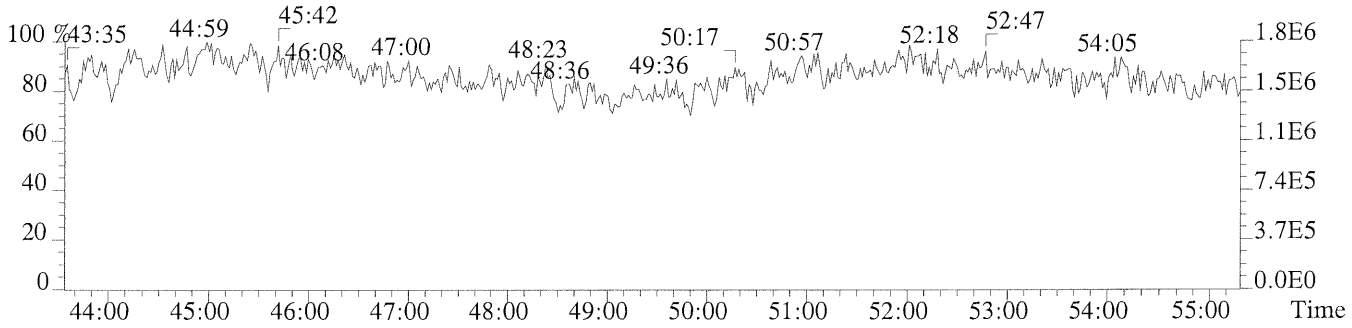
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1804.0,1.00%,F,T)



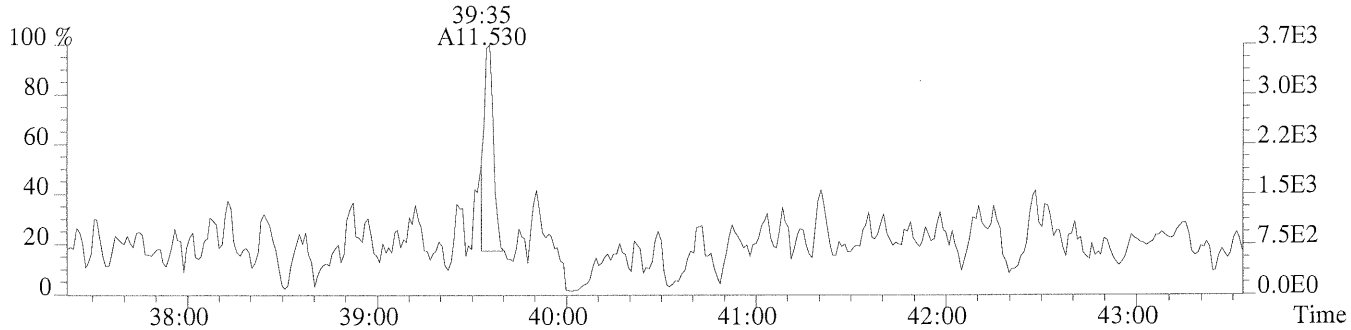
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1984.0,1.00%,F,T)



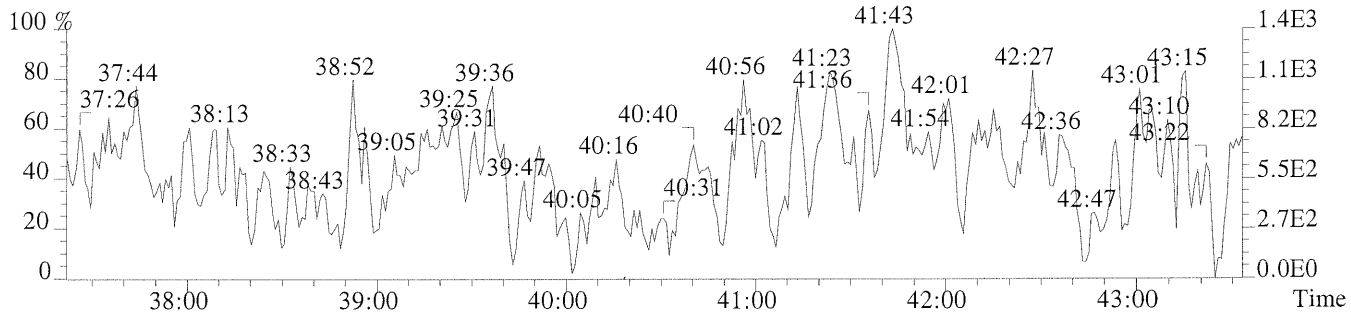
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



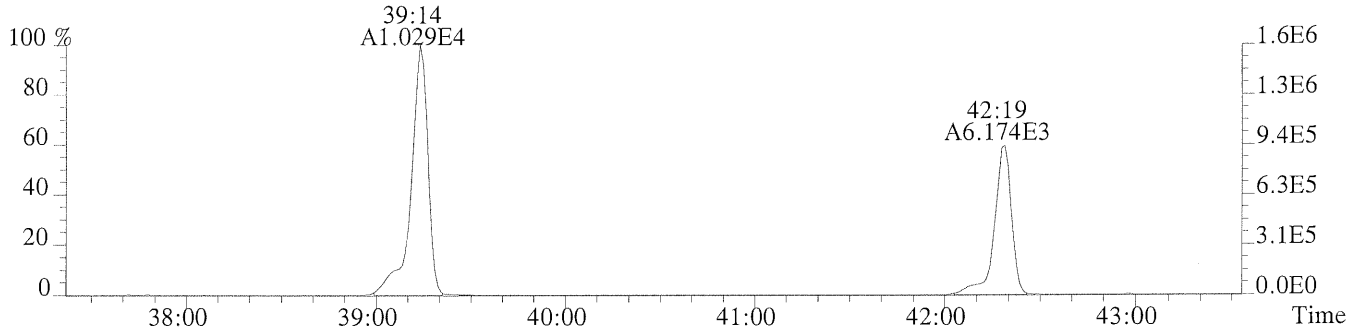
File:U142070 #1-396 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,928.0,1.00%,F,T)



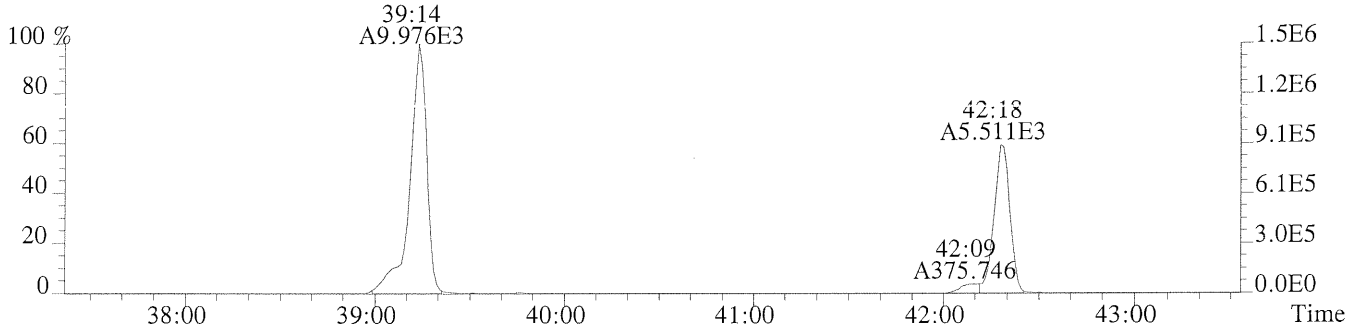
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,756.0,1.00%,F,T)



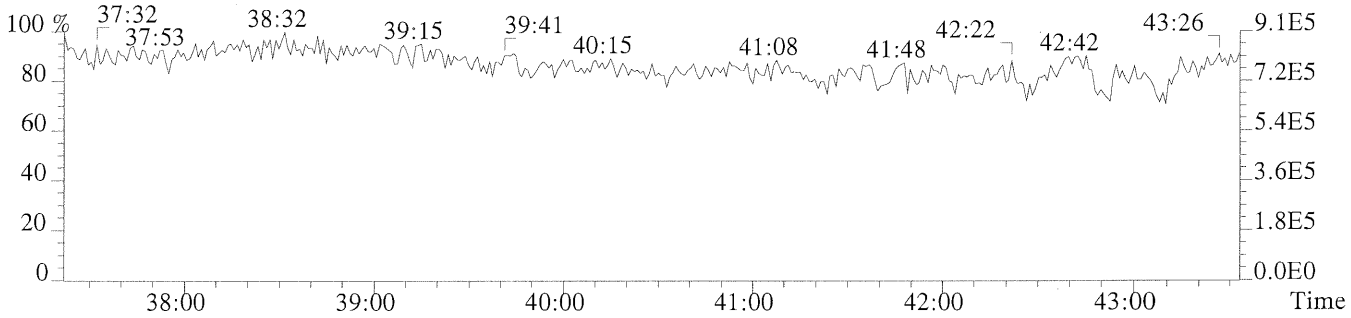
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)



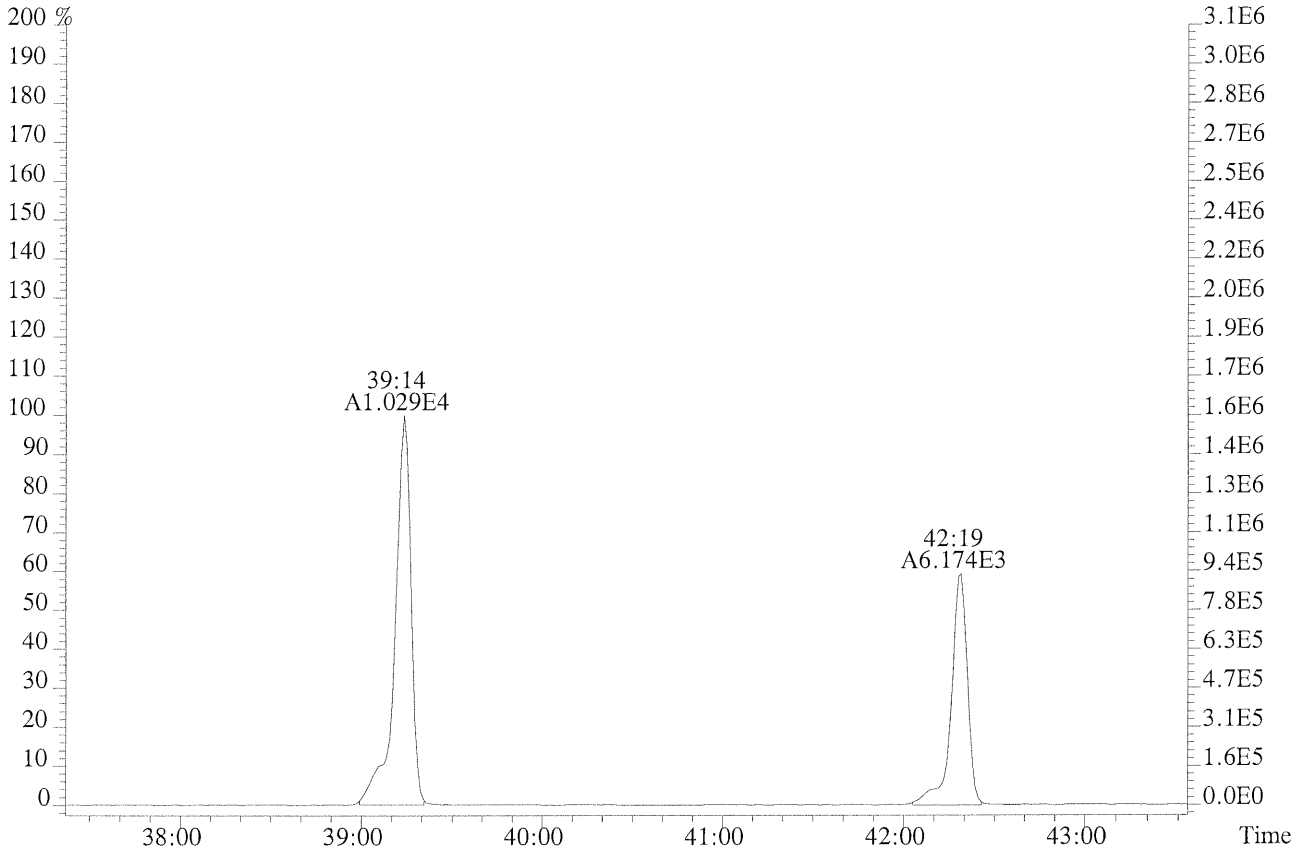
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,T)



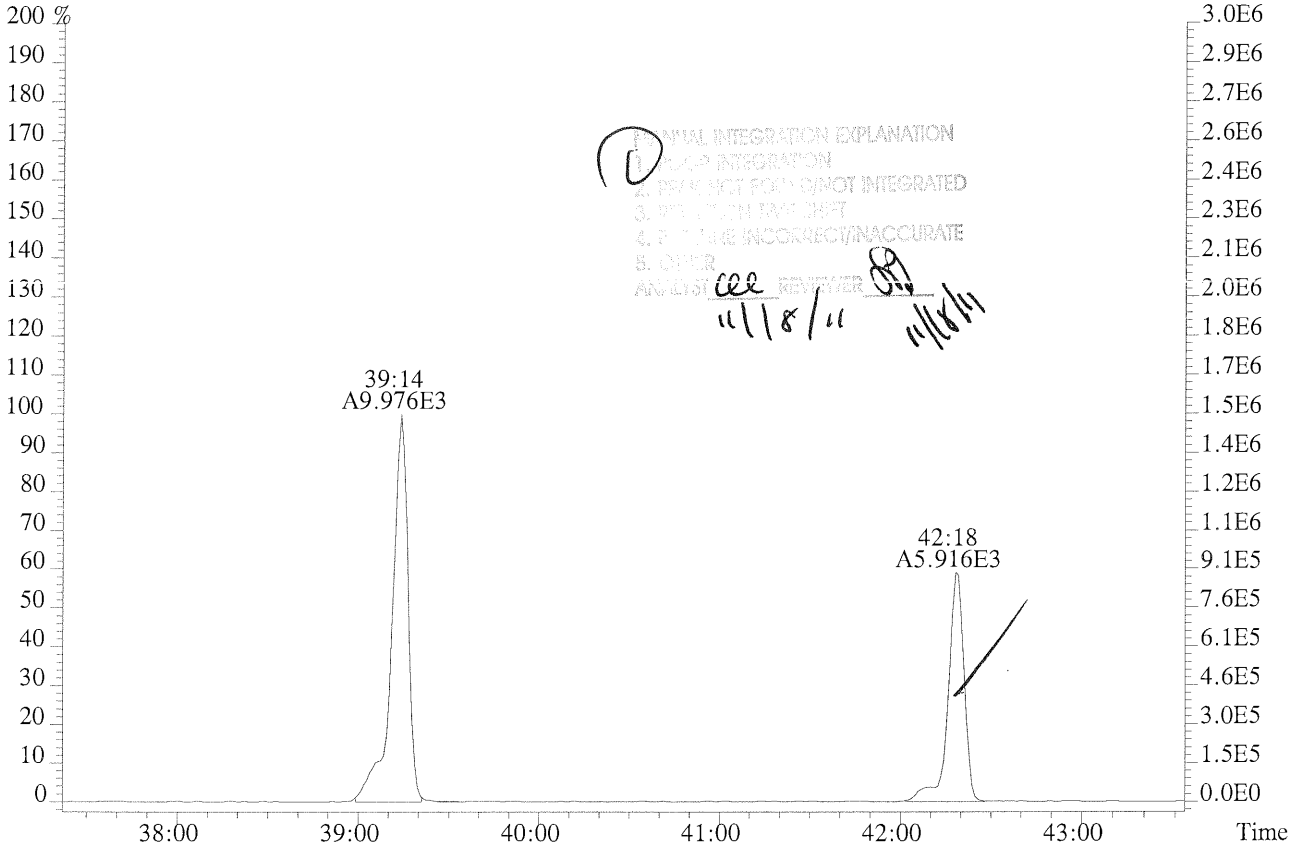
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142070 #1-396 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-010 B4-Blank-PC
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)

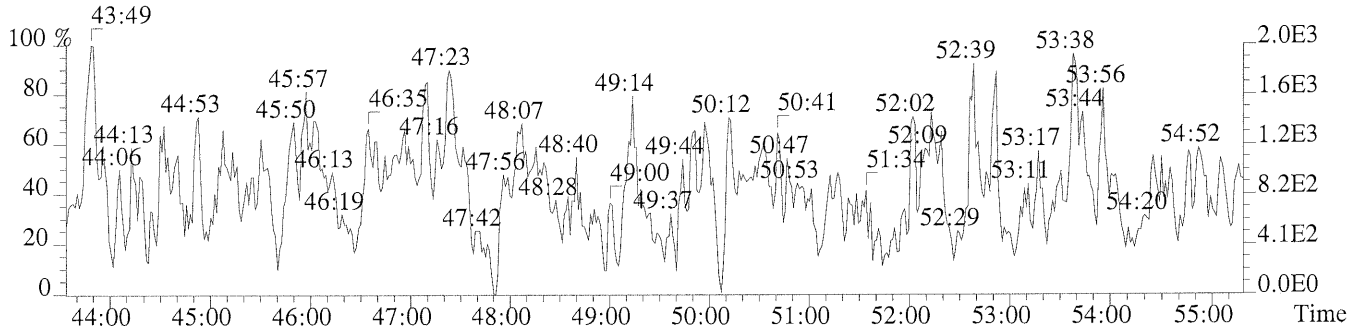


407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,T)

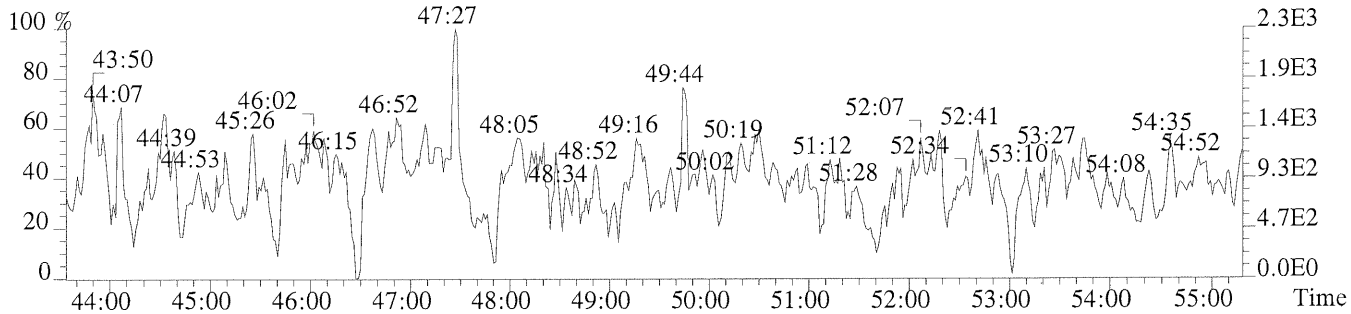


MANUAL INTEGRATION EXPLANATION
1. AUTO INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. PEAK TOO SMALL
4. PEAK TIME INCORRECT/INACCURATE
5. OTHER
ANALYST cee 11/18/11 REVIEWER 11/18/11

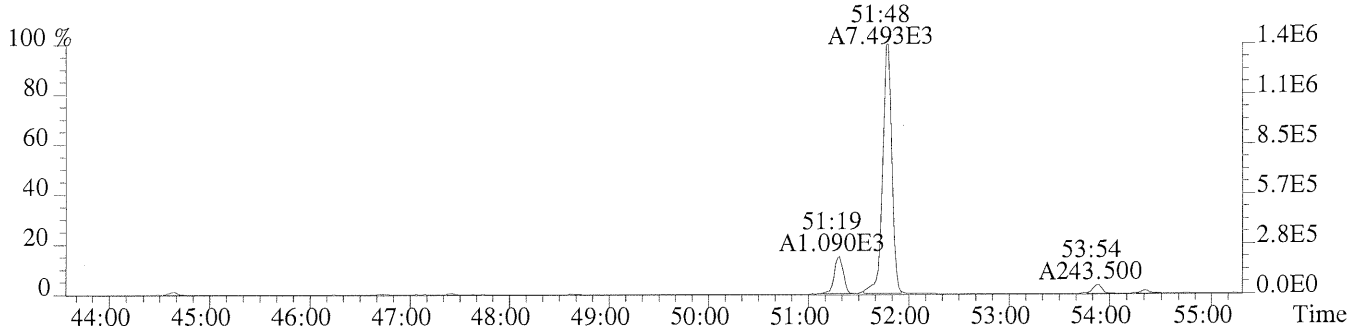
File:U142070 #1-582 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)



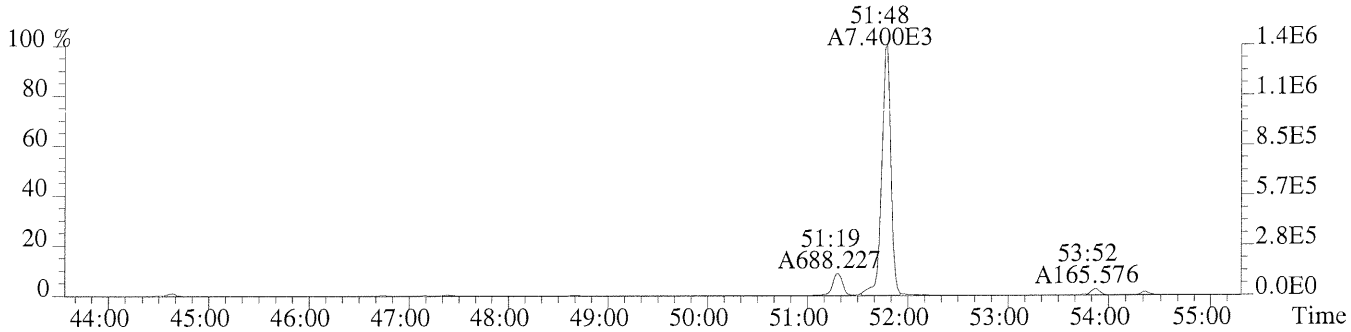
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1172.0,1.00%,F,T)



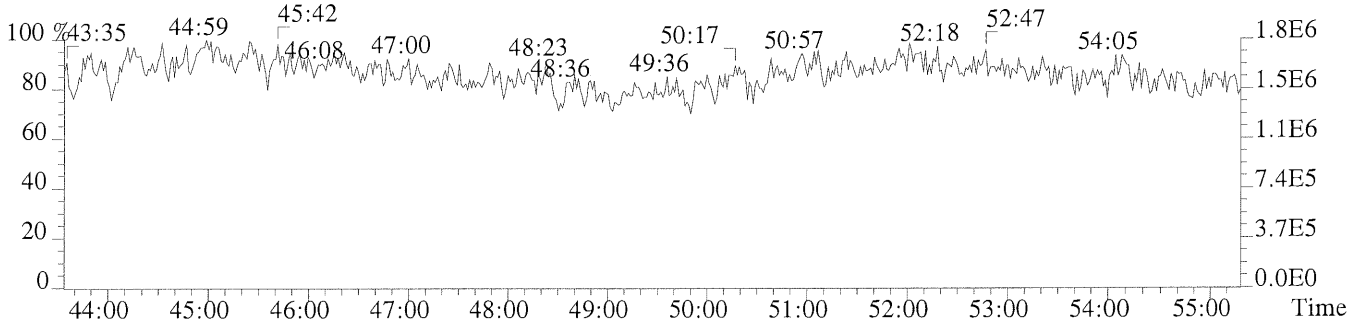
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1316.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)

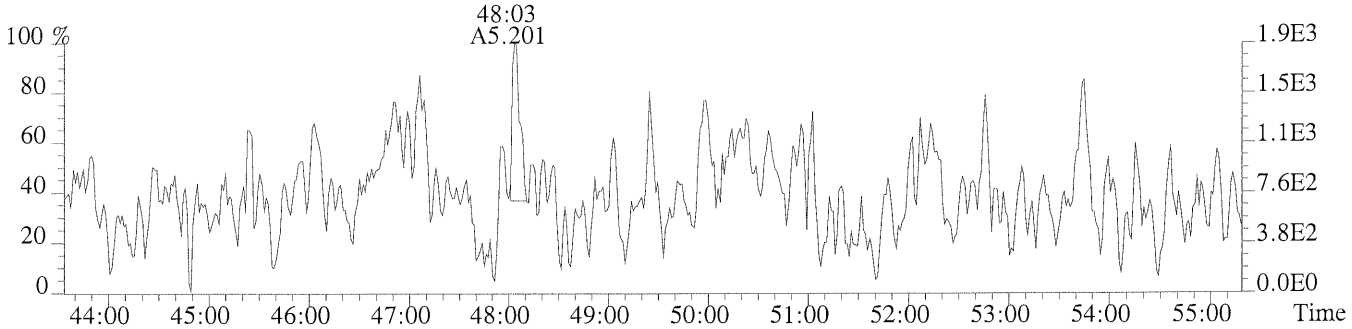


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

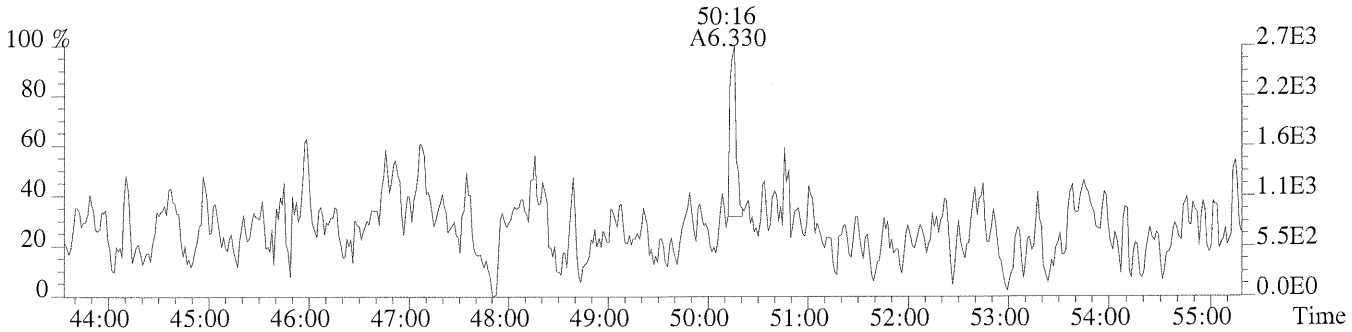


File:U142070 #1-582 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC

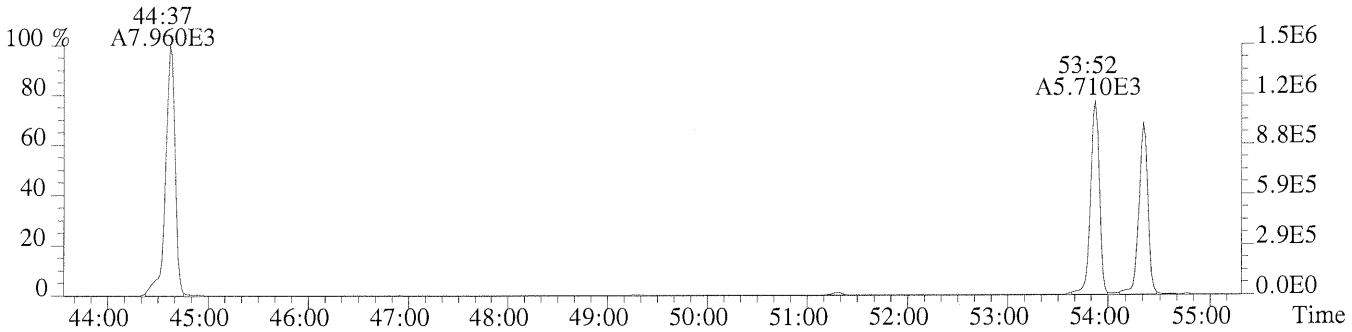
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



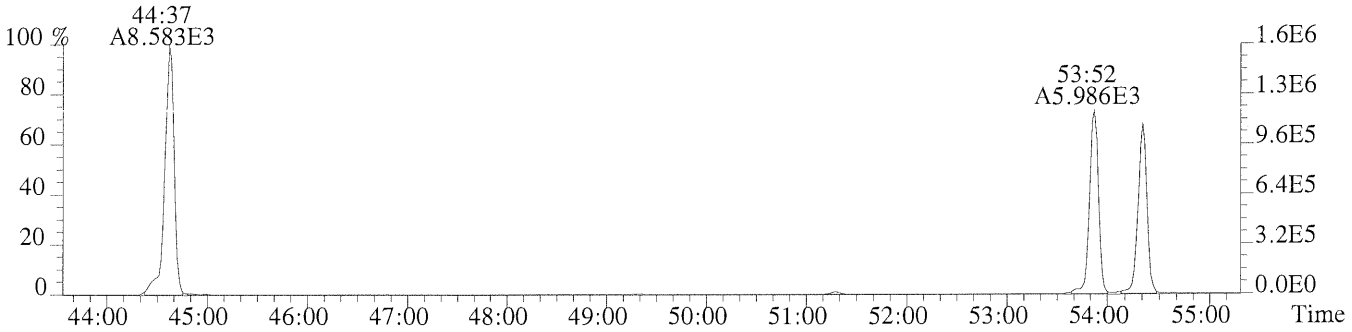
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



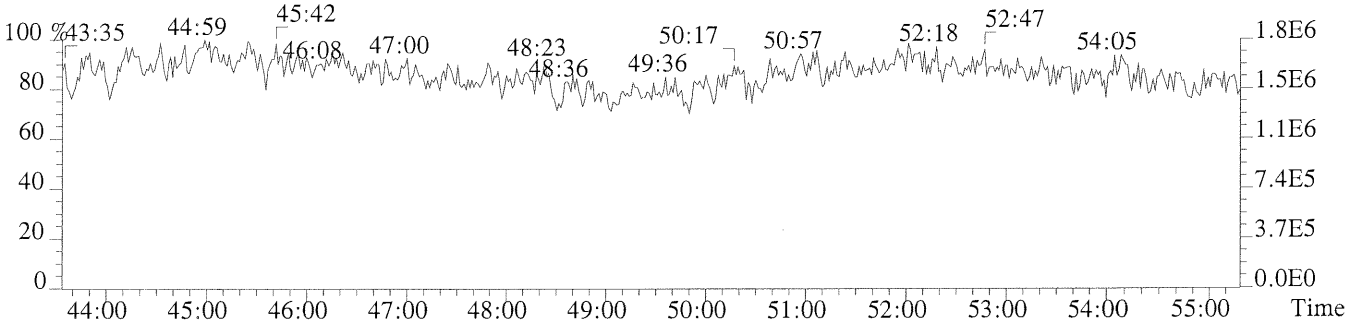
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)



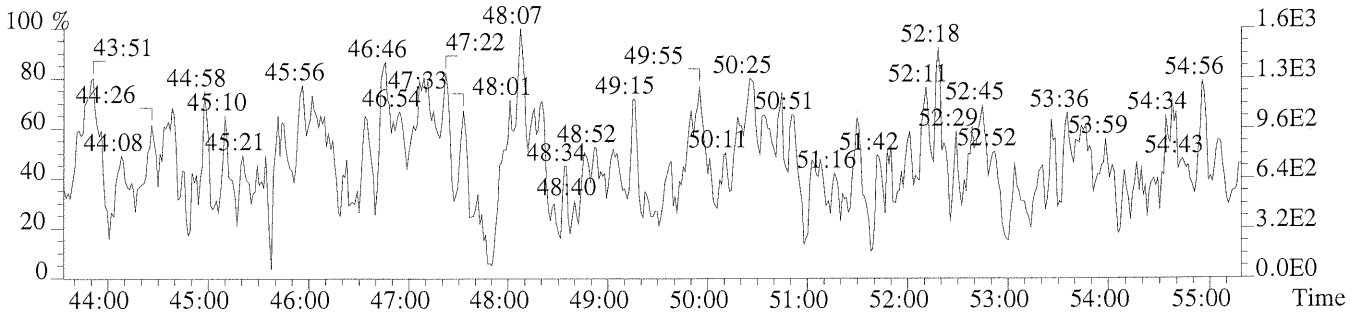
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1172.0,1.00%,F,T)



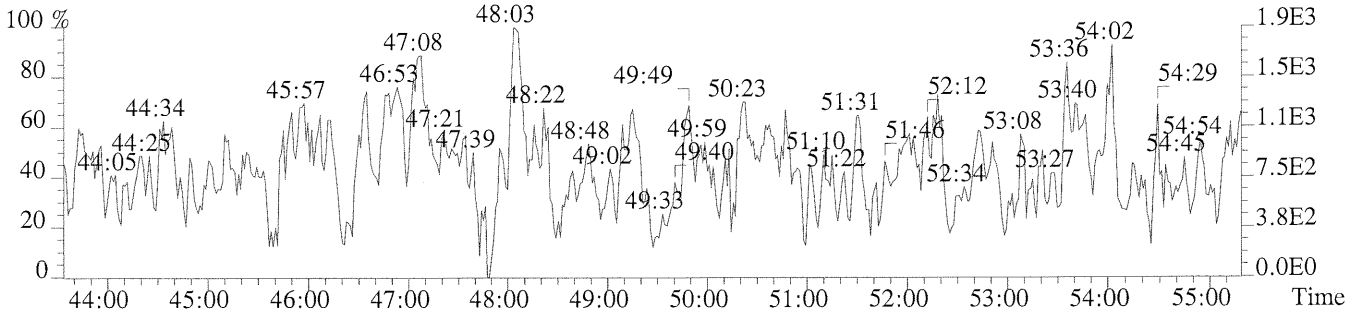
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



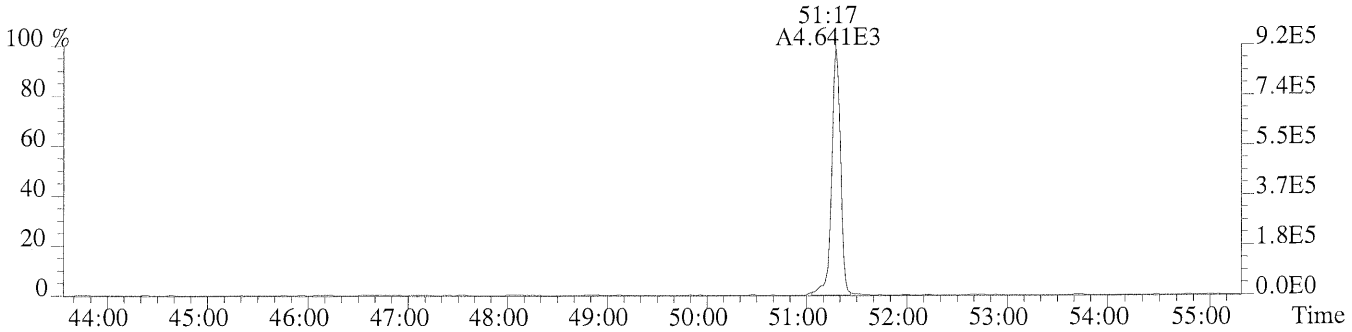
File:U142070 #1-582 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-010 B4-Blank-PC
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



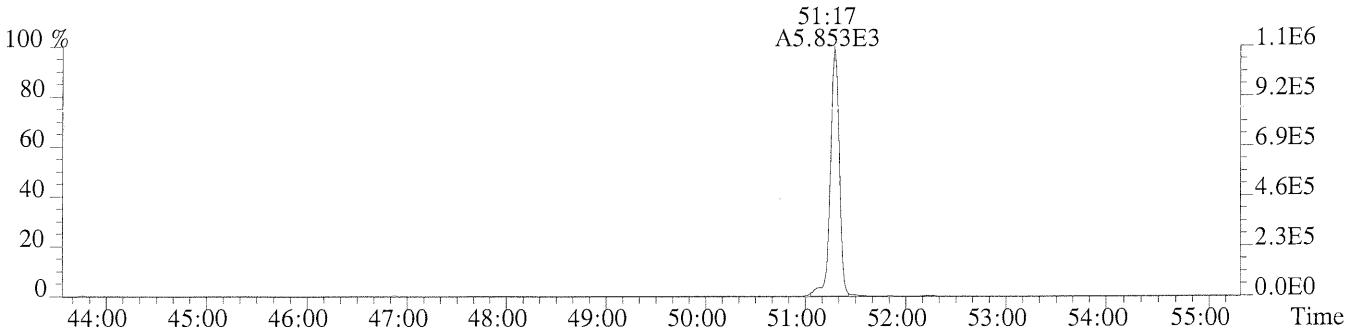
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



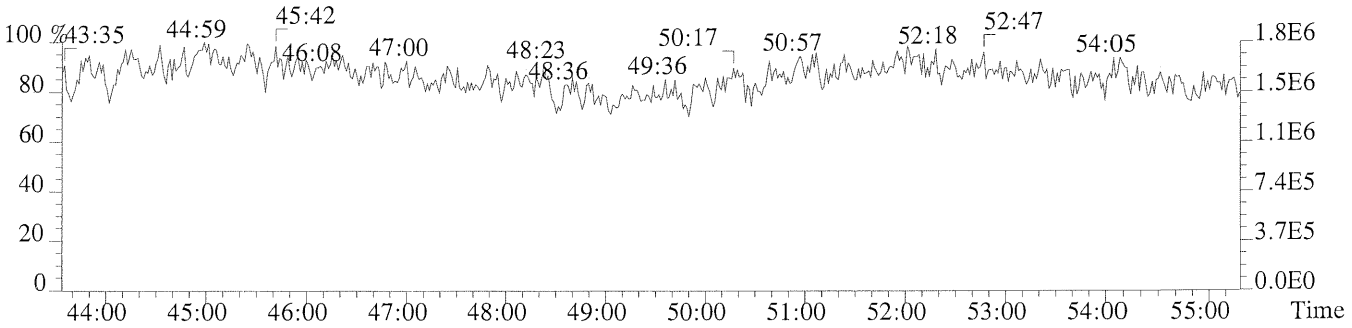
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



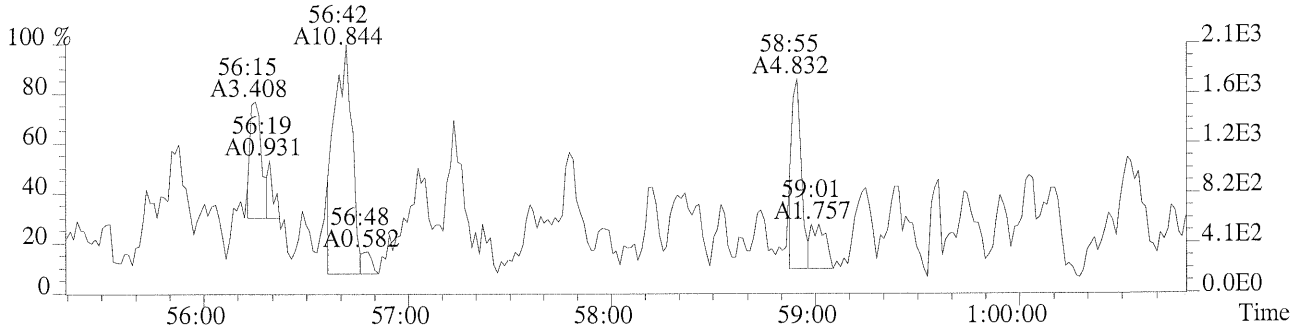
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



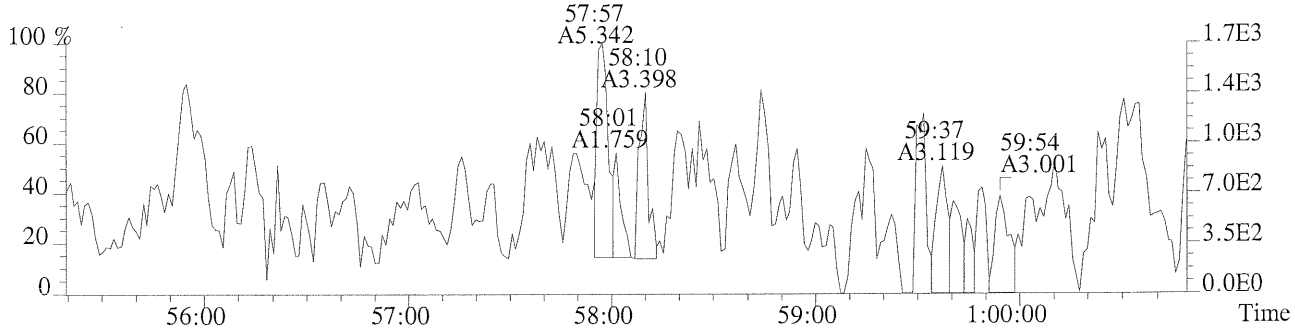
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



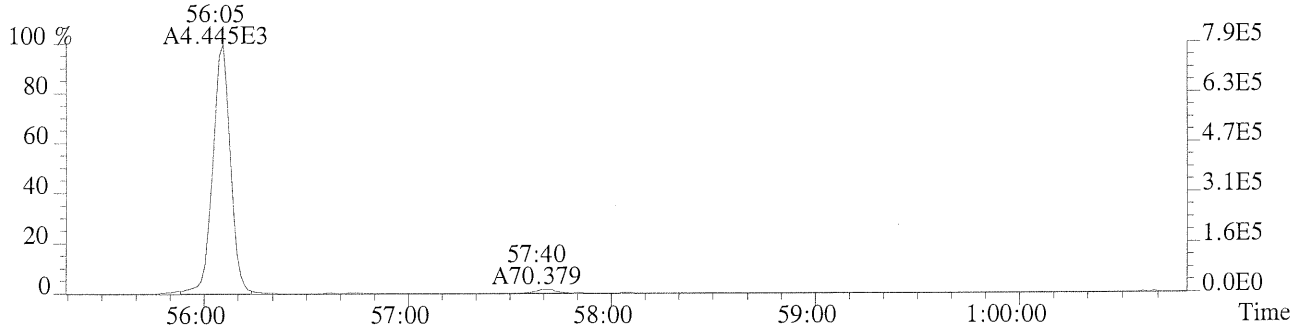
File:U142070 #1-310 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-010 B4-Blank-PC
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,660.0,1.00%,F,T)



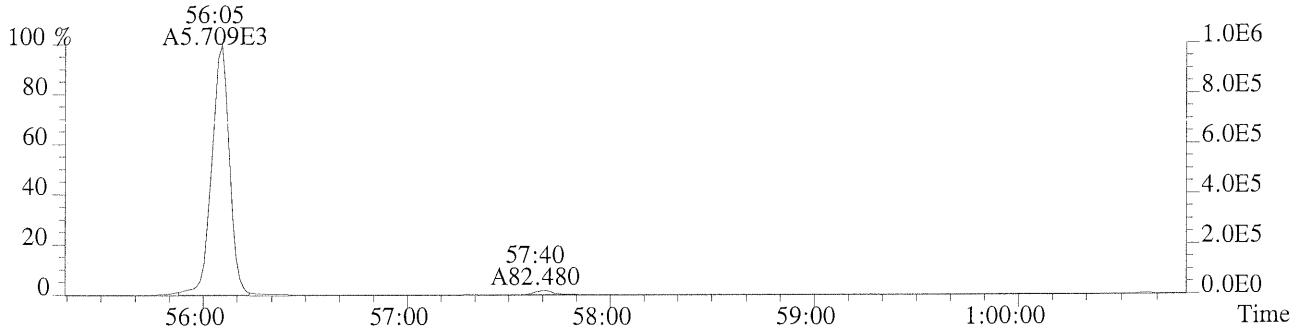
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,704.0,1.00%,F,T)



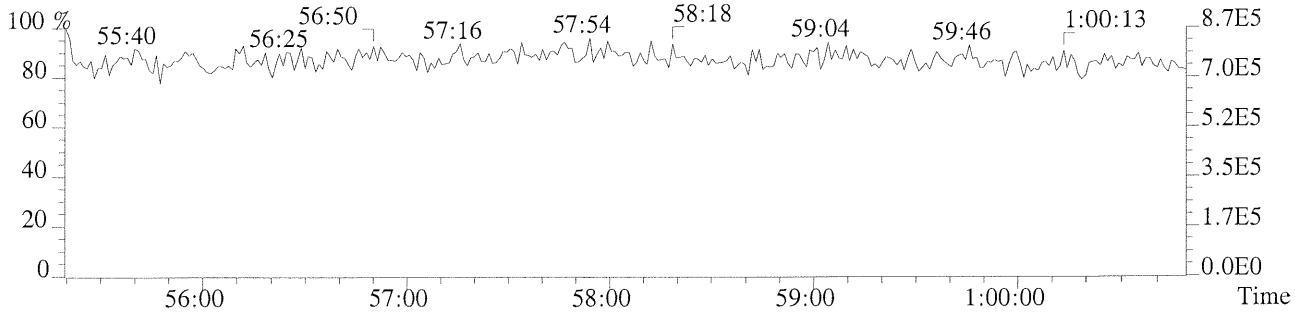
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,740.0,1.00%,F,T)



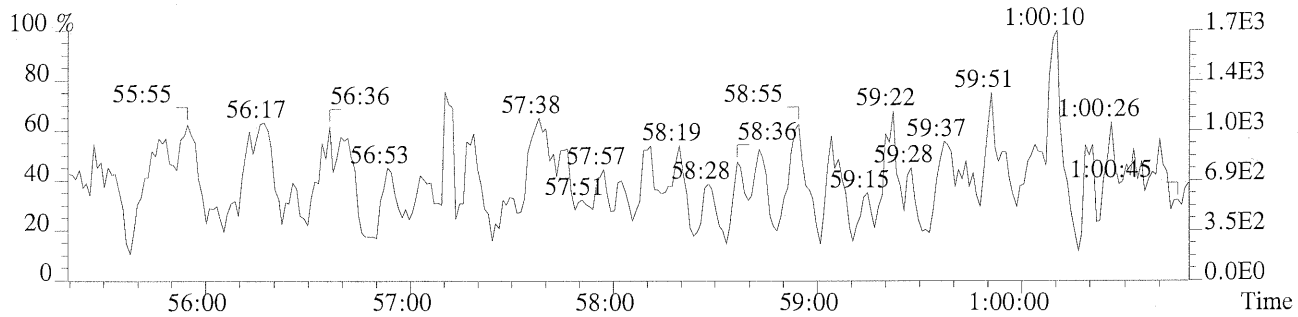
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,608.0,1.00%,F,T)



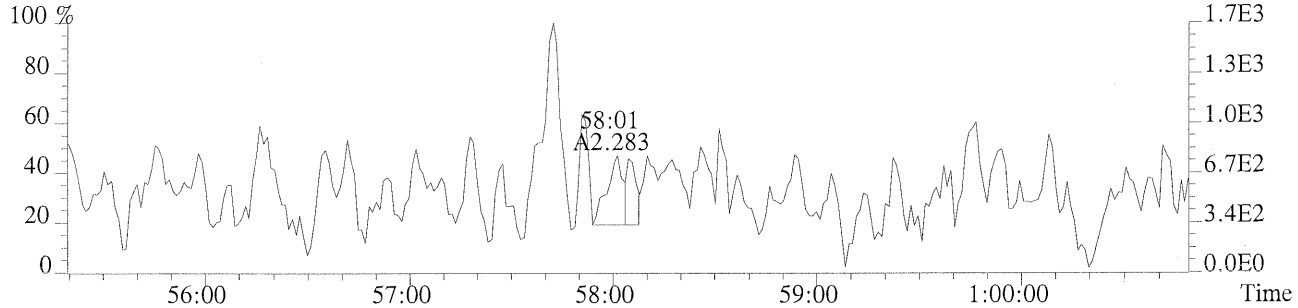
492.9697 F:7



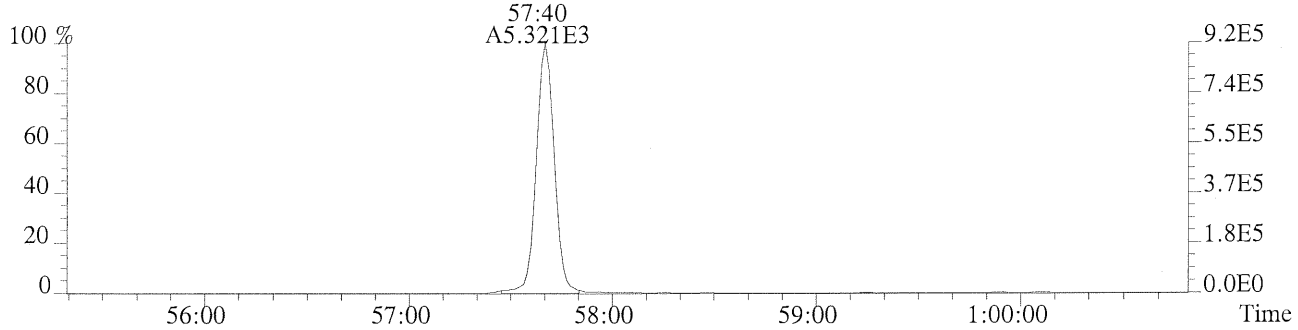
File:U142070 #1-310 Acq: 8-NOV-2011 15:02:06 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-010 B4-Blank-PC
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,920.0,1.00%,F,T)



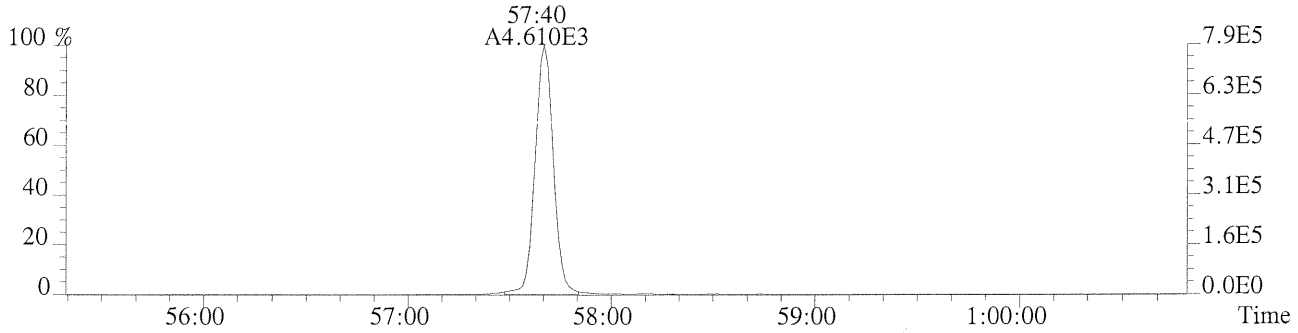
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,684.0,1.00%,F,T)



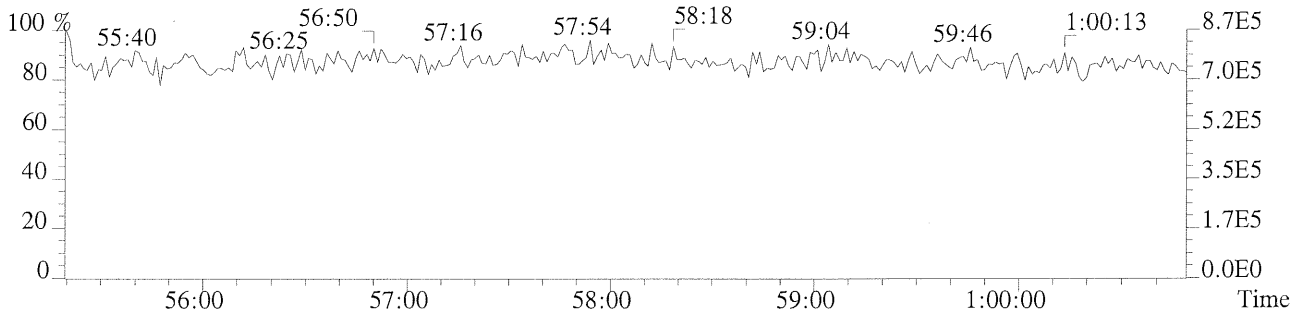
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,856.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,684.0,1.00%,F,T)



492.9697 F:7



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4-DUP-PCBs

Run #14 Filename U142193 Samp: 1 Inj: 1 Acquired: 28-NOV-11 13:05:05
Processed: 30-NOV-11 16:06:56 Sample ID: E1101017-011

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	13:20	2.341e+02	7.462e+01	3.14	y	n	1.071
2	1	PCB-2	15:25	2.547e+02	7.919e+01	3.22	y	n	1.189
3	1	PCB-3	15:37	5.002e+02	1.549e+02	3.23	y	n	1.036
4	1	PCB-4	NotFnd	*	*	*	n	n	1.114
5	1	PCB-10	NotFnd	*	*	*	n	n	1.833
6	2	PCB-9	NotFnd	*	*	*	n	n	1.296
7	2	PCB-7	NotFnd	*	*	*	n	n	1.283
8	2	PCB-6	NotFnd	*	*	*	n	n	1.343
9	2	PCB-5	NotFnd	*	*	*	n	n	1.165
10	2	PCB-8	18:48	5.761e+03	3.602e+03	1.60	y	n	1.509
11	2	PCB-14	NotFnd	*	*	*	n	n	1.383
12	2	PCB-11	21:28	1.827e+04	1.227e+04	1.49	y	n	1.283
13	2	PCB-12/13	NotFnd	*	*	*	n	n	1.207
14	2	PCB-15	21:59	3.275e+03	2.255e+03	1.45	y	y	0.977
15	2	PCB-19	19:06	5.690e+02	4.010e+02	1.42	n	n	1.001
16	2	PCB-18/30	20:53	3.193e+02	3.787e+02	0.84	n	n	1.282
17	2	PCB-17	NotFnd	*	*	*	n	n	1.039
18	2	PCB-27	21:32	2.523e+03	2.475e+03	1.02	y	n	1.609
19	2	PCB-24	21:43	6.328e+02	5.804e+02	1.09	y	n	1.409
20	2	PCB-16	21:56	3.248e+03	3.201e+03	1.01	y	n	0.815
21	2	PCB-32	22:27	2.913e+03	2.894e+03	1.01	y	n	1.592
22	3	PCB-34	NotFnd	*	*	*	n	y	1.613
23	3	PCB-23	NotFnd	*	*	*	n	y	1.561
24	3	PCB-26/29	24:10	2.890e+03	2.835e+03	1.02	y	y	1.648
25	3	PCB-25	24:25	1.249e+03	1.217e+03	1.03	y	y	1.777
26	3	PCB-31	24:43	1.491e+04	1.427e+04	1.04	y	y	1.721
27	3	PCB-20/28	25:01	1.544e+04	1.434e+04	1.08	y	y	1.619
28	3	PCB-21/33	25:15	1.032e+04	9.355e+03	1.10	y	y	1.652
29	3	PCB-22	25:40	6.436e+03	5.724e+03	1.12	y	y	1.470
30	3	PCB-36	NotFnd	*	*	*	n	y	1.670
31	3	PCB-39	NotFnd	*	*	*	n	y	1.530
32	3	PCB-38	NotFnd	*	*	*	n	y	1.540
33	3	PCB-35	28:41	1.241e+02	1.168e+02	1.06	y	y	1.348
34	3	PCB-37	29:05	2.331e+03	2.113e+03	1.10	y	y	1.089
35	2	PCB-54	NotFnd	*	*	*	n	n	1.002
36	3	PCB-50/53	24:26	1.034e+03	1.317e+03	0.78	y	n	1.138
37	3	PCB-45/51	25:06	1.633e+03	2.070e+03	0.79	y	n	1.087
38	3	PCB-46	25:25	4.077e+02	5.363e+02	0.76	y	n	0.925
39	3	PCB-52	26:52	5.502e+03	7.163e+03	0.77	y	n	1.213
40	3	PCB-43/73	27:06	2.301e+02	2.509e+02	0.92	n	y	1.188
41	3	PCB-49/69	27:22	3.721e+03	4.831e+03	0.77	y	n	1.340
42	3	PCB-48	27:39	1.561e+03	2.208e+03	0.71	y	n	1.137
43	3	PCB-44/47/65	27:52	5.350e+03	6.605e+03	0.81	y	n	1.234
44	3	PCB-59/62/75	28:13	9.187e+02	1.268e+03	0.72	y	n	1.486
45	3	PCB-42	28:24	1.217e+03	1.428e+03	0.85	y	n	1.060
46	3	PCB-40/41/71	28:55	3.507e+03	4.703e+03	0.75	y	y	1.115
47	3	PCB-64	29:08	2.736e+03	3.172e+03	0.86	y	y	1.538
48	3	PCB-72	NotFnd	*	*	*	n	n	1.578
49	3	PCB-68	30:17	5.146e+01	6.737e+01	0.76	y	n	1.531
50	3	PCB-57	NotFnd	*	*	*	n	n	1.458

51	3	PCB-58	NotFnd	*	*	*	n	y	1.394
52	3	PCB-67	31:07	1.328e+02	1.580e+02	0.84	y	y	1.474
53	3	PCB-63	31:22	1.448e+02	1.549e+02	0.93	n	n	1.506
54	3	PCB-61/70/74/76	31:42	6.488e+03	8.437e+03	0.77	y	n	1.425
55	3	PCB-66	32:03	2.828e+03	3.659e+03	0.77	y	n	1.483
56	3	PCB-55	32:11	6.246e+01	7.284e+01	0.86	y	n	1.337
57	4	PCB-56	32:43	1.525e+03	1.785e+03	0.85	y	n	1.227
58	4	PCB-60	32:56	8.028e+02	1.028e+03	0.78	y	n	1.288
59	4	PCB-80	NotFnd	*	*	*	n	y	1.422
60	4	PCB-79	NotFnd	*	*	*	n	n	1.425
61	4	PCB-78	NotFnd	*	*	*	n	n	1.298
62	4	PCB-81	35:54	5.712e+01	6.202e+01	0.92	n	y	1.034
63	4	PCB-77	36:27	1.192e+02	1.499e+02	0.80	y	y	0.995
64	3	PCB-104	NotFnd	*	*	*	n	n	1.030
65	3	PCB-96	NotFnd	*	*	*	n	y	1.445
66	3	PCB-103	NotFnd	*	*	*	n	n	1.235
67	3	PCB-94	NotFnd	*	*	*	n	n	0.971
68	3	PCB-95	30:50	1.239e+03	7.921e+02	1.56	y	y	1.147
69	3	PCB-93/100	NotFnd	*	*	*	n	y	1.096
70	3	PCB-98/102	31:12	7.073e+01	3.936e+01	1.80	n	n	1.053
71	3	PCB-88/91	31:41	2.838e+02	2.222e+02	1.28	n	y	1.080
72	3	PCB-84	31:54	3.263e+02	1.829e+02	1.78	n	y	0.912
73	3	PCB-89	NotFnd	*	*	*	n	n	1.015
74	4	PCB-121	NotFnd	*	*	*	n	n	1.366
75	4	PCB-92	33:13	1.752e+02	1.091e+02	1.61	y	n	1.043
76	4	PCB-90/101/113	33:48	1.446e+03	8.755e+02	1.65	y	y	1.133
77	4	PCB-83/99	34:23	6.188e+02	3.773e+02	1.64	y	y	1.031
78	4	PCB-112	NotFnd	*	*	*	n	n	1.353
79	4	PCB-86/87/97/109/119/125	34:58	8.183e+02	5.267e+02	1.55	y	y	1.168
80	4	PCB-117	35:30	6.155e+01	3.881e+01	1.59	y	y	1.180
81	4	PCB-85/116	35:37	2.771e+02	1.718e+02	1.61	y	y	1.200
82	4	PCB-110/115	35:46	8.958e+02	5.841e+02	1.53	y	n	1.290
83	4	PCB-82	36:05	8.529e+01	4.913e+01	1.74	y	n	0.886
84	4	PCB-111	NotFnd	*	*	*	n	n	1.272
85	4	PCB-120	NotFnd	*	*	*	n	n	1.410
86	5	PCB-108/124	NotFnd	*	*	*	n	y	1.138
87	5	PCB-107	38:19	3.642e+01	2.393e+01	1.52	y	y	1.212
88	5	PCB-123	38:27	4.851e+01	3.180e+01	1.53	y	y	1.018
89	5	PCB-106	38:30	5.673e+01	2.543e+01	2.23	n	y	1.195
90	5	PCB-118	38:46	4.635e+02	3.011e+02	1.54	y	y	0.997
91	5	PCB-122	NotFnd	*	*	*	n	n	1.071
92	5	PCB-114	39:19	5.023e+01	1.945e+01	2.58	n	y	0.991
93	5	PCB-105	39:57	1.432e+02	9.081e+01	1.58	y	y	1.011
94	5	PCB-127	NotFnd	*	*	*	n	n	1.015
95	5	PCB-126	43:03	7.135e+01	6.289e+01	1.13	n	y	0.960
96	4	PCB-155	NotFnd	*	*	*	n	y	0.988
97	4	PCB-152	NotFnd	*	*	*	n	n	1.937
98	4	PCB-150	NotFnd	*	*	*	n	n	1.821
99	4	PCB-136	34:16	1.399e+02	1.082e+02	1.29	y	n	1.953
100	4	PCB-145	NotFnd	*	*	*	n	n	1.783
101	4	PCB-148	NotFnd	*	*	*	n	n	1.433
102	4	PCB-135/151	36:42	2.375e+02	1.916e+02	1.24	y	y	1.377
103	4	PCB-154	NotFnd	*	*	*	n	y	1.545
104	4	PCB-144	37:16	2.971e+01	2.307e+01	1.29	y	n	1.412
105	5	PCB-147/149	37:37	4.286e+02	3.490e+02	1.23	y	n	1.295
106	5	PCB-134	37:48	2.447e+01	2.190e+01	1.12	y	n	1.064
107	5	PCB-143	NotFnd	*	*	*	n	n	1.251

108	5	PCB-139/140	NotFnd	*	*	*	n	n	1.277
109	5	PCB-131	NotFnd	*	*	*	n	n	1.134
110	5	PCB-142	NotFnd	*	*	*	n	n	1.171
111	5	PCB-132	38:52	8.881e+01	7.872e+01	1.13	y	n	1.094
112	5	PCB-133	NotFnd	*	*	*	n	n	1.191
113	5	PCB-165	NotFnd	*	*	*	n	n	1.012
114	5	PCB-146	40:01	4.265e+01	2.935e+01	1.45	n	n	1.044
115	5	PCB-161	NotFnd	*	*	*	n	n	1.634
116	5	PCB-153/168	40:37	3.102e+02	2.410e+02	1.29	y	n	1.400
117	5	PCB-141	40:50	5.171e+01	4.259e+01	1.21	y	n	0.837
118	5	PCB-130	NotFnd	*	*	*	n	n	1.032
119	5	PCB-137	NotFnd	*	*	*	n	n	1.062
120	5	PCB-164	NotFnd	*	*	*	n	n	1.506
121	5	PCB-129/138/163	41:53	2.071e+02	1.856e+02	1.12	y	n	1.213
122	5	PCB-160	NotFnd	*	*	*	n	n	1.461
123	5	PCB-158	42:16	3.404e+01	2.230e+01	1.53	n	n	1.568
124	5	PCB-128/166	43:09	1.943e+01	1.840e+01	1.06	y	n	1.271
125	6	PCB-159	NotFnd	*	*	*	n	n	1.147
126	6	PCB-162	NotFnd	*	*	*	n	n	1.132
127	6	PCB-167	44:53	1.909e+01	1.739e+01	1.10	y	n	1.008
128	6	PCB-156/157	46:02	7.477e+01	6.560e+01	1.14	y	n	1.006
129	6	PCB-169	49:17	3.444e+01	3.660e+01	0.94	n	y	0.992
130	5	PCB-188	NotFnd	*	*	*	n	n	0.990
131	5	PCB-179	39:36	8.161e+01	7.301e+01	1.12	y	n	1.673
132	5	PCB-184	NotFnd	*	*	*	n	n	1.746
133	5	PCB-176	NotFnd	*	*	*	n	y	1.740
134	5	PCB-186	NotFnd	*	*	*	n	n	0.945
135	5	PCB-178	NotFnd	*	*	*	n	n	1.256
136	5	PCB-175	NotFnd	*	*	*	n	n	1.315
137	5	PCB-187	43:13	8.371e+01	7.523e+01	1.11	y	n	1.332
138	5	PCB-182	NotFnd	*	*	*	n	n	1.264
139	6	PCB-183	NotFnd	*	*	*	n	y	1.002
140	6	PCB-185	NotFnd	*	*	*	n	n	0.830
141	6	PCB-174	44:06	2.452e+01	2.476e+01	0.99	y	y	0.809
142	6	PCB-177	NotFnd	*	*	*	n	n	0.830
143	6	PCB-181	NotFnd	*	*	*	n	n	0.840
144	6	PCB-171/173	NotFnd	*	*	*	n	n	0.806
145	6	PCB-172	NotFnd	*	*	*	n	n	0.790
146	6	PCB-192	NotFnd	*	*	*	n	n	0.970
147	6	PCB-180/193	47:26	4.409e+01	4.218e+01	1.05	y	y	0.940
148	6	PCB-191	NotFnd	*	*	*	n	n	1.053
149	6	PCB-170	NotFnd	*	*	*	n	n	0.739
150	6	PCB-190	NotFnd	*	*	*	n	n	0.998
151	6	PCB-189	NotFnd	*	*	*	n	n	0.863
152	6	PCB-202	NotFnd	*	*	*	n	n	0.863
153	6	PCB-201	NotFnd	*	*	*	n	n	1.396
154	6	PCB-204	NotFnd	*	*	*	n	n	1.374
155	6	PCB-197	NotFnd	*	*	*	n	n	1.371
156	6	PCB-200	NotFnd	*	*	*	n	n	1.297
157	6	PCB-198/199	NotFnd	*	*	*	n	n	0.902
158	6	PCB-196	NotFnd	*	*	*	n	n	0.830
159	6	PCB-203	NotFnd	*	*	*	n	n	0.887
160	6	PCB-195	NotFnd	*	*	*	n	n	0.807
161	6	PCB-194	NotFnd	*	*	*	n	n	0.789
162	6	PCB-205	NotFnd	*	*	*	n	n	0.889
163	6	PCB-208	NotFnd	*	*	*	n	n	0.880
164	6	PCB-207	NotFnd	*	*	*	n	n	1.070

Filename U142193 Acquired: 28-NOV-11 13:05:05

165	7	PCB-206	NotFnd	*	*	*	n	n	0.931
166	7	PCB-209	57:40	4.559e+02	3.797e+02	1.20	y	n	0.894
167	1	PCB-1L	13:19	2.191e+03	6.724e+02	3.26	y	n	1.220
168	1	PCB-3L	15:36	2.239e+03	6.954e+02	3.22	y	n	1.173
169	1	PCB-4L	15:51	1.019e+03	6.948e+02	1.47	y	n	0.803
170	2	PCB-15L	21:58	1.597e+03	9.687e+02	1.65	y	n	0.962
171	2	PCB-19L	19:05	8.543e+02	8.394e+02	1.02	y	y	0.636
172	3	PCB-37L	29:03	1.533e+03	1.306e+03	1.17	y	y	1.144
173	2	PCB-54L	22:15	7.119e+02	8.421e+02	0.85	y	n	1.140
174	4	PCB-81L	35:52	9.039e+02	1.180e+03	0.77	y	y	0.947
175	4	PCB-77L	36:26	9.625e+02	1.175e+03	0.82	y	y	0.949
176	3	PCB-104L	27:47	1.135e+03	7.067e+02	1.61	y	y	1.397
177	5	PCB-123L	38:25	1.286e+03	7.662e+02	1.68	y	y	1.029
178	5	PCB-118L	38:45	1.301e+03	7.911e+02	1.64	y	n	1.077
179	5	PCB-114L	39:17	1.346e+03	8.351e+02	1.61	y	n	1.075
180	5	PCB-105L	39:55	1.225e+03	7.692e+02	1.59	y	y	1.013
181	5	PCB-126L	43:01	1.115e+03	7.359e+02	1.51	y	y	0.898
182	4	PCB-155L	33:32	1.058e+03	8.721e+02	1.21	y	n	1.637
183	6	PCB-167L	44:52	8.216e+02	5.620e+02	1.46	n	n	0.882
184	6	PCB-156/157L	46:02	1.633e+03	1.254e+03	1.30	y	n	0.818
185	6	PCB-169L	49:16	7.418e+02	5.890e+02	1.26	y	n	0.716
186	5	PCB-188L	39:15	9.940e+02	9.331e+02	1.07	y	n	2.358
187	6	PCB-189L	51:47	5.945e+02	6.074e+02	0.98	y	n	1.307
188	6	PCB-202L	44:36	6.830e+02	7.400e+02	0.92	y	n	1.804
189	6	PCB-205L	54:20	4.777e+02	5.033e+02	0.95	y	n	1.363
190	6	PCB-208L	51:16	5.095e+02	6.370e+02	0.80	y	n	1.337
191	7	PCB-206L	56:04	4.412e+02	5.399e+02	0.82	y	n	0.998
192	7	PCB-209L	57:39	5.630e+02	4.774e+02	1.18	y	n	1.563
193	3	PCB-28L	24:59	1.466e+03	1.505e+03	0.97	y	y	1.387
194	4	PCB-111L	36:28	1.266e+03	7.980e+02	1.59	y	y	1.238
195	5	PCB-178L	42:17	6.189e+02	6.214e+02	1.00	y	n	0.953
196	2	PCB-9L	17:55	2.042e+03	1.258e+03	1.62	y	n	-
197	3	PCB-52L	26:51	1.014e+03	1.313e+03	0.77	y	n	-
198	4	PCB-101L	33:46	1.257e+03	8.170e+02	1.54	y	y	-
199	5	PCB-138L	41:51	1.077e+03	8.776e+02	1.23	y	y	-
200	6	PCB-194L	53:53	5.381e+02	5.466e+02	0.98	y	n	-

-- Sample Calculation--

$$\text{PCB-209} = \frac{(4.559e{+}02 + 3.797e{+}02) \times 10000 \text{ pg} \times 1}{(5.630e{+}02 + 4.774e{+}02) \times (0.5 \text{ mL}) \times (1\text{L} / 1000 \text{ mL}) \times 0.8938} = 18000 \text{ pg}$$

12/01/11

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
Office(713)266-1599. Fax(713)266-0130

sp166respb
02/2009

Columbia Analytical Services, Inc.
Sample Response Summary

EPA SAMPLE NO.
B4-DUP-PCBs

Run #3 Filename U142193#1 Samp: 1 Inj: 1 Acquired: 28-NOV-11 13:05:05
Processed: 1-DEC-11 10:12:37 Sample ID: E1101017-011

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	RRF	Mod?
1	8L	PCB-8L	18:47	1.389e+02	1.027e+02	1.35	yes	1.063	no
2	70L	PCB-70L	31:41	1.138e+03	1.383e+03	0.82	yes	1.391	no
3	15L	PCB-15L	21:58	1.597e+03	9.687e+02	1.65	yes		no
4	81L	PCB-81L	35:52	9.039e+02	1.038e+03	0.87	yes		no

Signal/Noise Height Ratio Summary

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-8L	1.91e+04	1.63e+03	1.2e+01	1.33e+04	1.11e+03	1.2e+01
2	PCB-70L	1.63e+05	6.89e+03	2.4e+01	2.00e+05	2.02e+03	9.9e+01
3	PCB-15L	2.51e+05	1.63e+03	1.5e+02	1.55e+05	1.11e+03	1.4e+02
4	PCB-81L	1.30e+05	3.45e+03	3.8e+01	1.69e+05	1.33e+03	1.3e+02

----Sample EDL Calculation----

$$\text{PCB-8L} = \frac{(1.39e+02 + 1.03e+02) \times 10000\ \text{pg} \quad 1}{(1.60e+03 + 9.69e+02) \times 1.0\ \cancel{L} \times 1.063} = 886\ \text{pg} \quad \cancel{\text{pg/L}}$$

12/01/11

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CASH Form sp428resp, 01/28/11

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4-DUP-PCBs

Run #14 Filename U142193#1 Samp: 1 Inj: 1 Acquired: 28-NOV-11 13:05:05

Processed: 30-NOV-11 16:06:56 LAB. ID: E1101017-011

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	4.98e+04	1.20e+03	4.1e+01	1.44e+04	1.10e+03	1.3e+01
2	PCB-2	3.80e+04	1.20e+03	3.2e+01	1.00e+04	1.10e+03	9.2e+00
3	PCB-3	7.14e+04	1.20e+03	5.9e+01	2.40e+04	1.10e+03	2.2e+01
4	PCB-4	*	4.16e+03	*	*	7.64e+04	*
5	PCB-10	*	4.16e+03	*	*	7.64e+04	*
6	PCB-9	*	2.94e+03	*	*	7.05e+04	*
7	PCB-7	*	2.94e+03	*	*	7.05e+04	*
8	PCB-6	*	2.94e+03	*	*	7.05e+04	*
9	PCB-5	*	2.94e+03	*	*	7.05e+04	*
10	PCB-8	7.32e+05	2.94e+03	2.5e+02	4.86e+05	7.05e+04	6.9e+00
11	PCB-14	*	2.94e+03	*	*	7.05e+04	*
12	PCB-11	3.63e+06	2.94e+03	1.2e+03	2.36e+06	7.05e+04	3.4e+01
13	PCB-12/13	*	2.94e+03	*	*	7.05e+04	*
14	PCB-15	4.76e+05	2.94e+03	1.6e+02	3.19e+05	7.05e+04	4.5e+00
15	PCB-19	7.63e+04	4.10e+03	1.9e+01	6.88e+04	6.24e+02	1.1e+02
16	PCB-18/30	5.44e+04	4.10e+03	1.3e+01	5.29e+04	6.24e+02	8.5e+01
17	PCB-17	*	4.10e+03	*	*	6.24e+02	*
18	PCB-27	4.56e+05	4.10e+03	1.1e+02	4.43e+05	6.24e+02	7.1e+02
19	PCB-24	1.09e+05	4.10e+03	2.7e+01	1.02e+05	6.24e+02	1.6e+02
20	PCB-16	4.92e+05	4.10e+03	1.2e+02	5.06e+05	6.24e+02	8.1e+02
21	PCB-32	4.61e+05	4.10e+03	1.1e+02	4.57e+05	6.24e+02	7.3e+02
22	PCB-34	*	4.03e+03	*	*	2.85e+03	*
23	PCB-23	*	4.03e+03	*	*	2.85e+03	*
24	PCB-26/29	4.16e+05	4.03e+03	1.0e+02	3.74e+05	2.85e+03	1.3e+02
25	PCB-25	1.69e+05	4.03e+03	4.2e+01	1.71e+05	2.85e+03	6.0e+01
26	PCB-31	2.06e+06	4.03e+03	5.1e+02	2.00e+06	2.85e+03	7.0e+02
27	PCB-20/28	2.03e+06	4.03e+03	5.0e+02	1.88e+06	2.85e+03	6.6e+02
28	PCB-21/33	1.48e+06	4.03e+03	3.7e+02	1.37e+06	2.85e+03	4.8e+02
29	PCB-22	8.68e+05	4.03e+03	2.2e+02	8.12e+05	2.85e+03	2.9e+02
30	PCB-36	*	4.03e+03	*	*	2.85e+03	*
31	PCB-39	*	4.03e+03	*	*	2.85e+03	*
32	PCB-38	*	4.03e+03	*	*	2.85e+03	*
33	PCB-35	2.46e+04	4.03e+03	6.1e+00	2.25e+04	2.85e+03	7.9e+00
34	PCB-37	3.64e+05	4.03e+03	9.0e+01	3.27e+05	2.85e+03	1.2e+02
35	PCB-54	*	8.68e+02	*	*	8.72e+02	*
36	PCB-50/53	1.38e+05	1.35e+03	1.0e+02	1.79e+05	1.57e+03	1.1e+02
37	PCB-45/51	1.77e+05	1.35e+03	1.3e+02	2.31e+05	1.57e+03	1.5e+02
38	PCB-46	6.39e+04	1.35e+03	4.7e+01	7.96e+04	1.57e+03	5.1e+01
39	PCB-52	7.84e+05	1.35e+03	5.8e+02	1.00e+06	1.57e+03	6.4e+02
40	PCB-43/73	3.85e+04	1.35e+03	2.8e+01	4.62e+04	1.57e+03	2.9e+01
41	PCB-49/69	5.07e+05	1.35e+03	3.8e+02	6.75e+05	1.57e+03	4.3e+02
42	PCB-48	2.41e+05	1.35e+03	1.8e+02	3.16e+05	1.57e+03	2.0e+02
43	PCB-44/47/65	6.57e+05	1.35e+03	4.9e+02	8.27e+05	1.57e+03	5.3e+02
44	PCB-59/62/75	9.97e+04	1.35e+03	7.4e+01	1.33e+05	1.57e+03	8.5e+01
45	PCB-42	1.96e+05	1.35e+03	1.4e+02	2.47e+05	1.57e+03	1.6e+02
46	PCB-40/41/71	3.39e+05	1.35e+03	2.5e+02	4.30e+05	1.57e+03	2.7e+02
47	PCB-64	4.36e+05	1.35e+03	3.2e+02	5.37e+05	1.57e+03	3.4e+02

Run #14 Filename U142193#1 Samp: 1 Acquired: 28-NOV-11 13:05:05

48	PCB-72	*	1.35e+03	*	*	1.57e+03	*
49	PCB-68	8.83e+03	1.35e+03	6.5e+00	1.23e+04	1.57e+03	7.8e+00
50	PCB-57	*	1.35e+03	*	*	1.57e+03	*
51	PCB-58	*	1.35e+03	*	*	1.57e+03	*
52	PCB-67	2.69e+04	1.35e+03	2.0e+01	3.26e+04	1.57e+03	2.1e+01
53	PCB-63	2.73e+04	1.35e+03	2.0e+01	3.34e+04	1.57e+03	2.1e+01
54	PCB-61/70/74/76	6.22e+05	1.35e+03	4.6e+02	8.19e+05	1.57e+03	5.2e+02
55	PCB-66	4.57e+05	1.35e+03	3.4e+02	5.69e+05	1.57e+03	3.6e+02
56	PCB-55	1.35e+04	1.35e+03	1.0e+01	1.48e+04	1.57e+03	9.5e+00
57	PCB-56	2.17e+05	1.06e+03	2.0e+02	2.67e+05	2.17e+03	1.2e+02
58	PCB-60	1.26e+05	1.06e+03	1.2e+02	1.85e+05	2.17e+03	8.5e+01
59	PCB-80	*	1.06e+03	*	*	2.17e+03	*
60	PCB-79	*	1.06e+03	*	*	2.17e+03	*
61	PCB-78	*	1.06e+03	*	*	2.17e+03	*
62	PCB-81	1.04e+04	1.06e+03	9.9e+00	1.16e+04	2.17e+03	5.4e+00
63	PCB-77	1.80e+04	1.06e+03	1.7e+01	2.81e+04	2.17e+03	1.3e+01
64	PCB-104	*	1.03e+03	*	*	1.26e+03	*
65	PCB-96	*	1.03e+03	*	*	1.26e+03	*
66	PCB-103	*	1.03e+03	*	*	1.26e+03	*
67	PCB-94	*	1.03e+03	*	*	1.26e+03	*
68	PCB-95	1.70e+05	1.03e+03	1.6e+02	1.08e+05	1.26e+03	8.5e+01
69	PCB-93/100	*	1.03e+03	*	*	1.26e+03	*
70	PCB-98/102	1.09e+04	1.03e+03	1.1e+01	6.84e+03	1.26e+03	5.4e+00
71	PCB-88/91	3.50e+04	1.03e+03	3.4e+01	3.09e+04	1.26e+03	2.4e+01
72	PCB-84	5.01e+04	1.03e+03	4.9e+01	3.24e+04	1.26e+03	2.6e+01
73	PCB-89	*	1.03e+03	*	*	1.26e+03	*
74	PCB-121	*	2.12e+03	*	*	1.10e+03	*
75	PCB-92	2.95e+04	2.12e+03	1.4e+01	1.87e+04	1.10e+03	1.7e+01
76	PCB-90/101/113	2.13e+05	2.12e+03	1.0e+02	1.39e+05	1.10e+03	1.3e+02
77	PCB-83/99	7.69e+04	2.12e+03	3.6e+01	5.12e+04	1.10e+03	4.6e+01
78	PCB-112	*	2.12e+03	*	*	1.10e+03	*
79	CB-86/87/97/109/119/125	7.26e+04	2.12e+03	3.4e+01	3.89e+04	1.10e+03	3.5e+01
80	PCB-117	1.23e+04	2.12e+03	5.8e+00	8.52e+03	1.10e+03	7.7e+00
81	PCB-85/116	4.73e+04	2.12e+03	2.2e+01	2.99e+04	1.10e+03	2.7e+01
82	PCB-110/115	1.41e+05	2.12e+03	6.7e+01	9.04e+04	1.10e+03	8.2e+01
83	PCB-82	1.49e+04	2.12e+03	7.0e+00	6.96e+03	1.10e+03	6.3e+00
84	PCB-111	*	2.12e+03	*	*	1.10e+03	*
85	PCB-120	*	2.12e+03	*	*	1.10e+03	*
86	PCB-108/124	*	1.44e+03	*	*	1.24e+03	*
87	PCB-107	6.68e+03	1.44e+03	4.7e+00	4.36e+03	1.24e+03	3.5e+00
88	PCB-123	1.15e+04	1.44e+03	8.0e+00	8.31e+03	1.24e+03	6.7e+00
89	PCB-106	1.15e+04	1.44e+03	8.0e+00	6.39e+03	1.24e+03	5.1e+00
90	PCB-118	7.11e+04	1.44e+03	5.0e+01	5.11e+04	1.24e+03	4.1e+01
91	PCB-122	*	1.44e+03	*	*	1.24e+03	*
92	PCB-114	7.79e+03	1.44e+03	5.4e+00	4.12e+03	1.24e+03	3.3e+00
93	PCB-105	2.19e+04	1.44e+03	1.5e+01	1.45e+04	1.24e+03	1.2e+01
94	PCB-127	*	1.44e+03	*	*	1.24e+03	*
95	PCB-126	1.24e+04	1.44e+03	8.6e+00	1.12e+04	1.24e+03	9.0e+00
96	PCB-155	*	7.76e+02	*	*	6.52e+02	*
97	PCB-152	*	7.76e+02	*	*	6.52e+02	*
98	PCB-150	*	7.76e+02	*	*	6.52e+02	*
99	PCB-136	2.37e+04	7.76e+02	3.1e+01	1.94e+04	6.52e+02	3.0e+01
100	PCB-145	*	7.76e+02	*	*	6.52e+02	*
101	PCB-148	*	7.76e+02	*	*	6.52e+02	*
102	PCB-135/151	2.54e+04	7.76e+02	3.3e+01	1.92e+04	6.52e+02	3.0e+01
103	PCB-154	*	7.76e+02	*	*	6.52e+02	*
104	PCB-144	5.33e+03	7.76e+02	6.9e+00	5.48e+03	6.52e+02	8.4e+00

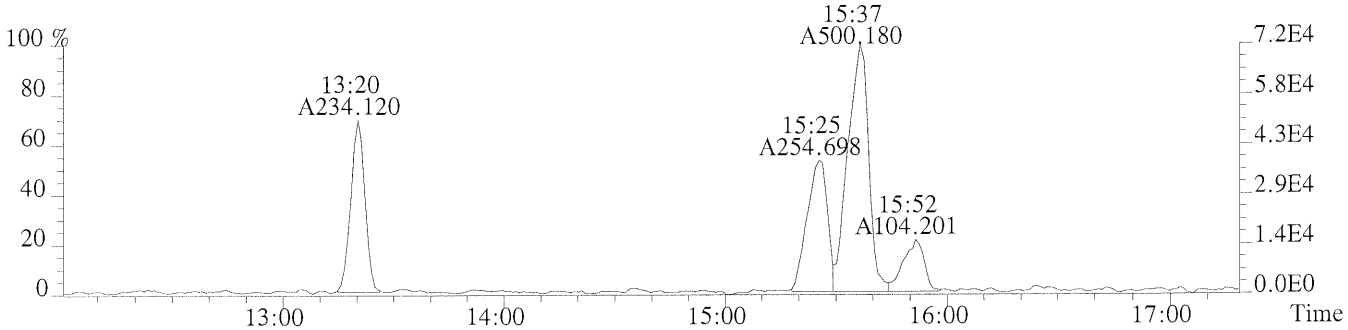
PCB-147/149	7.02e+04	8.20e+02	8.6e+01	5.57e+04	1.10e+03	5.1e+01
PCB-134	3.73e+03	8.20e+02	4.6e+00	3.50e+03	1.10e+03	3.2e+00
PCB-143	*	8.20e+02	*	*	1.10e+03	*
PCB-139/140	*	8.20e+02	*	*	1.10e+03	*
PCB-131	*	8.20e+02	*	*	1.10e+03	*
PCB-142	*	8.20e+02	*	*	1.10e+03	*
PCB-132	1.70e+04	8.20e+02	2.1e+01	1.37e+04	1.10e+03	1.3e+01
PCB-133	*	8.20e+02	*	*	1.10e+03	*
PCB-165	*	8.20e+02	*	*	1.10e+03	*
PCB-146	8.44e+03	8.20e+02	1.0e+01	4.82e+03	1.10e+03	4.4e+00
PCB-161	*	8.20e+02	*	*	1.10e+03	*
PCB-153/168	4.73e+04	8.20e+02	5.8e+01	4.34e+04	1.10e+03	4.0e+01
PCB-141	1.11e+04	8.20e+02	1.4e+01	8.09e+03	1.10e+03	7.4e+00
PCB-130	*	8.20e+02	*	*	1.10e+03	*
PCB-137	*	8.20e+02	*	*	1.10e+03	*
PCB-164	*	8.20e+02	*	*	1.10e+03	*
PCB-129/138/163	3.01e+04	8.20e+02	3.7e+01	2.80e+04	1.10e+03	2.6e+01
PCB-160	*	8.20e+02	*	*	1.10e+03	*
PCB-158	4.41e+03	8.20e+02	5.4e+00	4.41e+03	1.10e+03	4.0e+00
PCB-128/166	3.35e+03	8.20e+02	4.1e+00	3.77e+03	1.10e+03	3.4e+00
PCB-159	*	1.33e+03	*	*	1.45e+03	*
PCB-162	*	1.33e+03	*	*	1.45e+03	*
PCB-167	4.17e+03	1.33e+03	3.1e+00	3.86e+03	1.45e+03	2.7e+00
PCB-156/157	1.36e+04	1.33e+03	1.0e+01	1.09e+04	1.45e+03	7.5e+00
PCB-169	7.14e+03	1.33e+03	5.4e+00	8.17e+03	1.45e+03	5.6e+00
PCB-188	*	1.17e+03	*	*	8.56e+02	*
PCB-179	1.54e+04	1.17e+03	1.3e+01	1.32e+04	8.56e+02	1.5e+01
PCB-184	*	1.17e+03	*	*	8.56e+02	*
PCB-176	*	1.17e+03	*	*	8.56e+02	*
PCB-186	*	1.17e+03	*	*	8.56e+02	*
PCB-178	*	1.17e+03	*	*	8.56e+02	*
PCB-175	*	1.17e+03	*	*	8.56e+02	*
PCB-187	1.43e+04	1.17e+03	1.2e+01	1.34e+04	8.56e+02	1.6e+01
PCB-182	*	1.17e+03	*	*	8.56e+02	*
PCB-183	*	1.36e+03	*	*	1.46e+03	*
PCB-185	*	1.36e+03	*	*	1.46e+03	*
PCB-174	6.29e+03	1.36e+03	4.6e+00	4.52e+03	1.46e+03	3.1e+00
PCB-177	*	1.36e+03	*	*	1.46e+03	*
PCB-181	*	1.36e+03	*	*	1.46e+03	*
PCB-171/173	*	1.36e+03	*	*	1.46e+03	*
PCB-172	*	1.36e+03	*	*	1.46e+03	*
PCB-192	*	1.36e+03	*	*	1.46e+03	*
PCB-180/193	9.54e+03	1.36e+03	7.0e+00	7.28e+03	1.46e+03	5.0e+00
PCB-191	*	1.36e+03	*	*	1.46e+03	*
PCB-170	*	1.36e+03	*	*	1.46e+03	*
PCB-190	*	1.36e+03	*	*	1.46e+03	*
PCB-189	*	1.36e+03	*	*	1.46e+03	*
PCB-202	*	1.05e+03	*	*	1.02e+03	*
PCB-201	*	1.05e+03	*	*	1.02e+03	*
PCB-204	*	1.05e+03	*	*	1.02e+03	*
PCB-197	*	1.05e+03	*	*	1.02e+03	*
PCB-200	*	1.05e+03	*	*	1.02e+03	*
PCB-198/199	*	1.05e+03	*	*	1.02e+03	*
PCB-196	*	1.05e+03	*	*	1.02e+03	*
PCB-203	*	1.05e+03	*	*	1.02e+03	*
PCB-195	*	1.05e+03	*	*	1.02e+03	*
PCB-194	*	1.05e+03	*	*	1.02e+03	*
PCB-205	*	1.05e+03	*	*	1.02e+03	*

Run #14 Filename U142193#1 Samp: 1 Acquired: 28-NOV-11 13:05:05

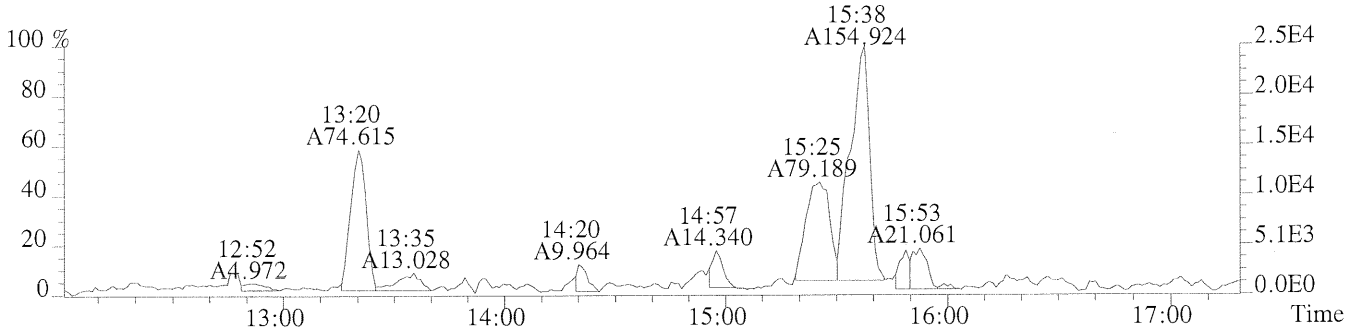
163	PCB-208	*	1.68e+03	*	*	1.57e+03	*
164	PCB-207	*	1.68e+03	*	*	1.57e+03	*
165	PCB-206	*	1.78e+03	*	*	2.31e+03	*
166	PCB-209	8.05e+04	1.02e+03	7.9e+01	6.47e+04	1.06e+03	6.1e+01
167	PCB-1L	4.67e+05	1.51e+03	3.1e+02	1.45e+05	5.71e+03	2.5e+01
168	PCB-3L	3.10e+05	1.51e+03	2.1e+02	1.03e+05	5.71e+03	1.8e+01
169	PCB-4L	1.49e+05	1.51e+03	9.9e+01	1.10e+05	1.60e+03	6.8e+01
170	PCB-15L	2.51e+05	1.63e+03	1.5e+02	1.55e+05	1.11e+03	1.4e+02
171	PCB-19L	1.04e+05	2.14e+04	4.9e+00	9.45e+04	3.39e+04	2.8e+00
172	PCB-37L	2.03e+05	1.64e+04	1.2e+01	1.72e+05	2.42e+04	7.1e+00
173	PCB-54L	1.04e+05	7.53e+03	1.4e+01	1.34e+05	2.21e+03	6.1e+01
174	PCB-81L	1.30e+05	3.45e+03	3.8e+01	1.71e+05	1.33e+03	1.3e+02
175	PCB-77L	1.30e+05	3.45e+03	3.8e+01	1.60e+05	1.33e+03	1.2e+02
176	PCB-104L	1.66e+05	1.11e+03	1.5e+02	1.06e+05	1.08e+03	9.8e+01
177	PCB-123L	1.90e+05	1.06e+03	1.8e+02	1.22e+05	1.22e+03	1.0e+02
178	PCB-118L	1.88e+05	1.06e+03	1.8e+02	1.21e+05	1.22e+03	9.9e+01
179	PCB-114L	2.07e+05	1.06e+03	1.9e+02	1.30e+05	1.22e+03	1.1e+02
180	PCB-105L	1.81e+05	1.06e+03	1.7e+02	1.19e+05	1.22e+03	9.8e+01
181	PCB-126L	1.71e+05	1.06e+03	1.6e+02	1.04e+05	1.22e+03	8.5e+01
182	PCB-155L	1.57e+05	7.56e+02	2.1e+02	1.25e+05	8.52e+02	1.5e+02
183	PCB-167L	1.60e+05	1.34e+03	1.2e+02	1.16e+05	1.99e+03	5.8e+01
184	PCB-156/157L	2.44e+05	1.34e+03	1.8e+02	1.87e+05	1.99e+03	9.4e+01
185	PCB-169L	1.34e+05	1.34e+03	9.9e+01	1.10e+05	1.99e+03	5.5e+01
186	PCB-188L	1.65e+05	1.26e+03	1.3e+02	1.52e+05	9.12e+02	1.7e+02
187	PCB-189L	1.20e+05	1.31e+03	9.2e+01	1.25e+05	9.96e+02	1.3e+02
188	PCB-202L	1.25e+05	1.22e+03	1.0e+02	1.42e+05	1.20e+03	1.2e+02
189	PCB-205L	9.94e+04	1.22e+03	8.2e+01	1.01e+05	1.20e+03	8.4e+01
190	PCB-208L	9.99e+04	1.29e+03	7.8e+01	1.30e+05	1.37e+03	9.5e+01
191	PCB-206L	8.02e+04	8.92e+02	9.0e+01	9.56e+04	1.17e+03	8.2e+01
192	PCB-209L	9.86e+04	5.56e+02	1.8e+02	8.61e+04	8.04e+02	1.1e+02
193	PCB-28L	2.10e+05	1.64e+04	1.3e+01	2.06e+05	2.42e+04	8.5e+00
194	PCB-111L	1.98e+05	9.48e+02	2.1e+02	1.12e+05	7.00e+02	1.6e+02
195	PCB-178L	9.81e+04	1.26e+03	7.8e+01	9.14e+04	9.12e+02	1.0e+02
196	PCB-9L	2.85e+05	1.63e+03	1.7e+02	1.78e+05	1.11e+03	1.6e+02
197	PCB-52L	1.44e+05	6.89e+03	2.1e+01	1.79e+05	2.02e+03	8.9e+01
198	PCB-101L	1.88e+05	9.48e+02	2.0e+02	1.26e+05	7.00e+02	1.8e+02
199	PCB-138L	1.75e+05	1.09e+03	1.6e+02	1.39e+05	8.96e+02	1.5e+02
200	PCB-194L	1.02e+05	1.22e+03	8.4e+01	1.11e+05	1.20e+03	9.2e+01

File:U142193 #1-341 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs

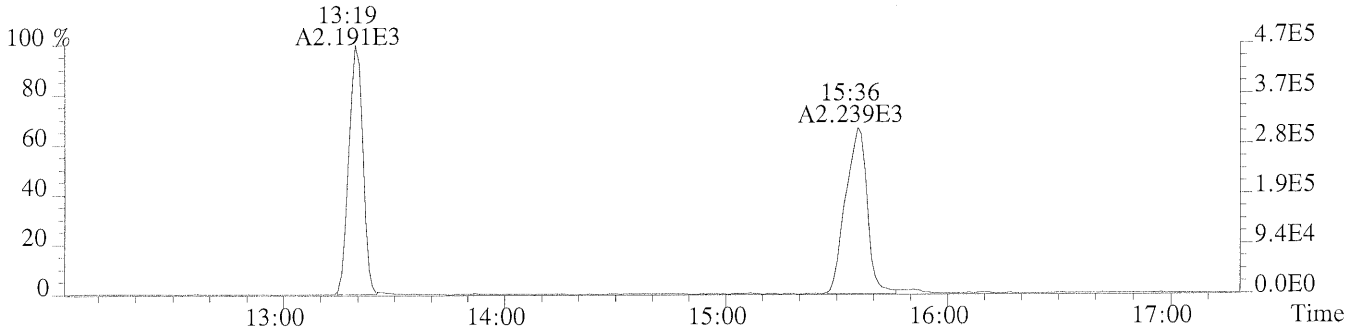
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



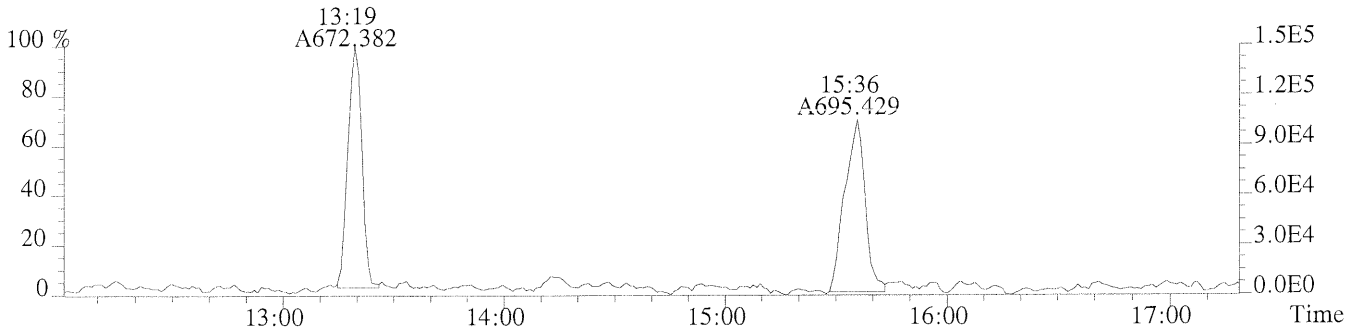
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1096.0,1.00%,F,T)



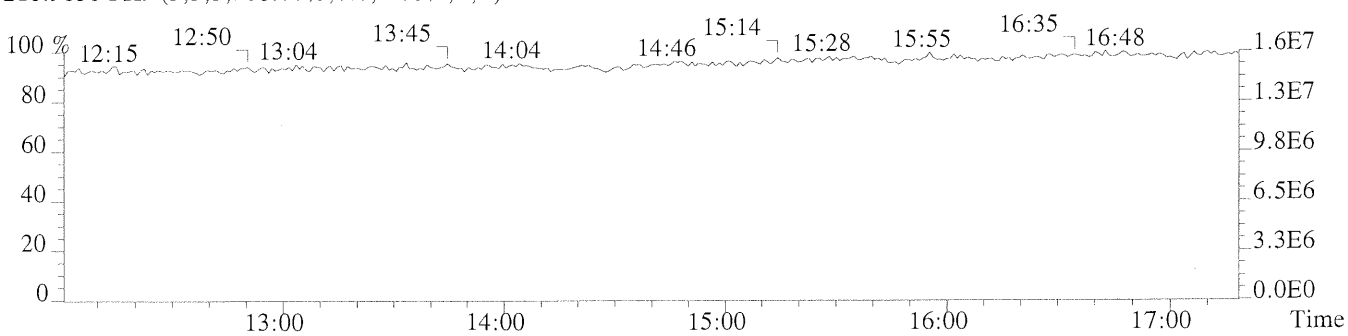
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1508.0,1.00%,F,T)



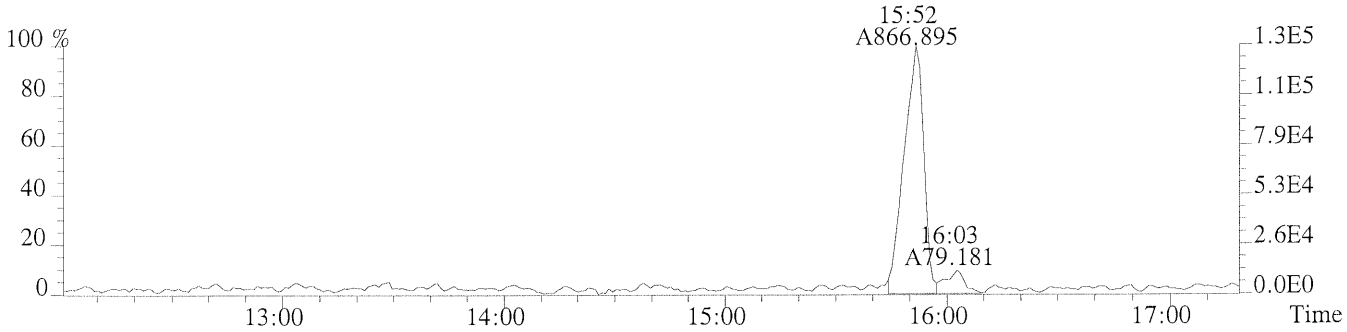
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5708.0,1.00%,F,T)



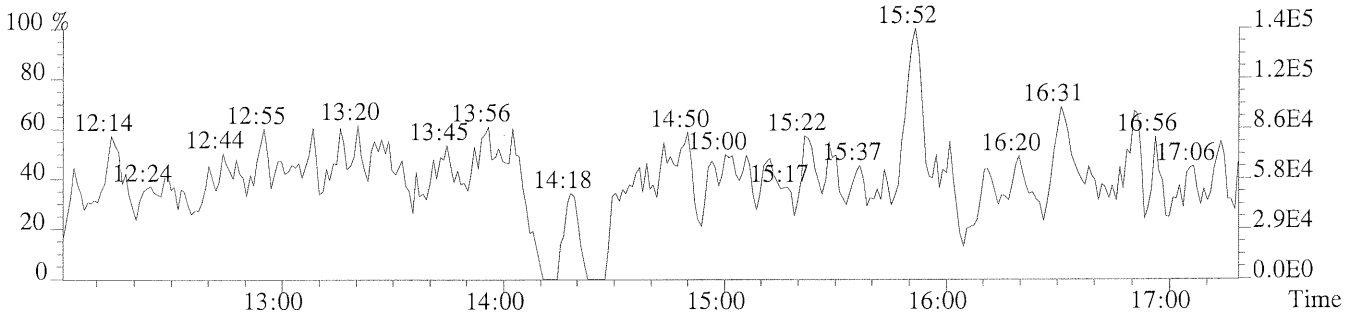
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



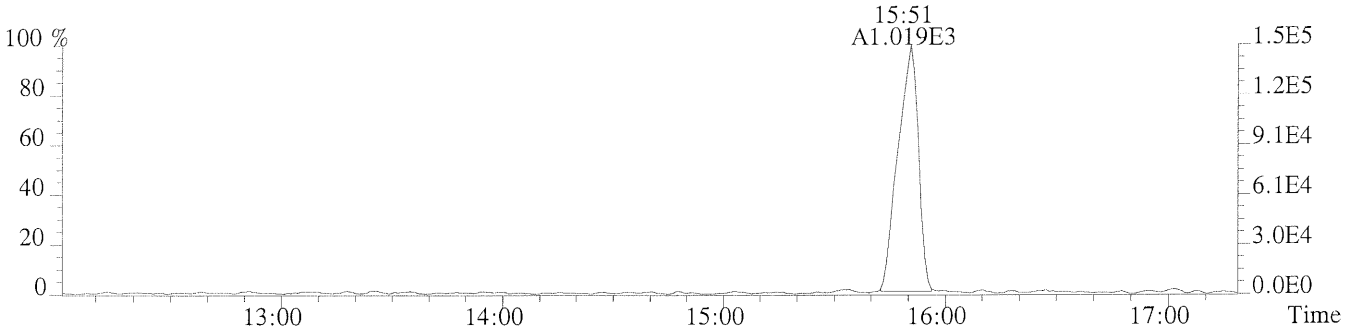
File:U142193 #1-341 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4164.0,1.00%,F,T)



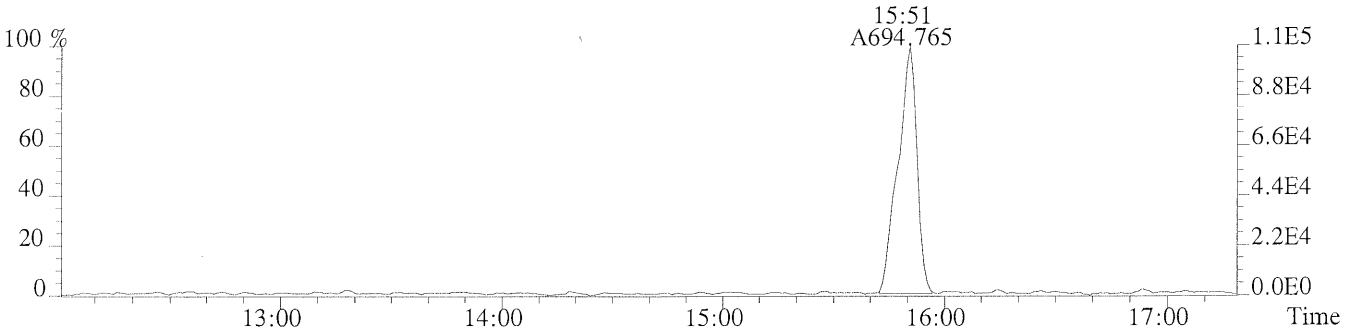
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,76412.0,1.00%,F,T)



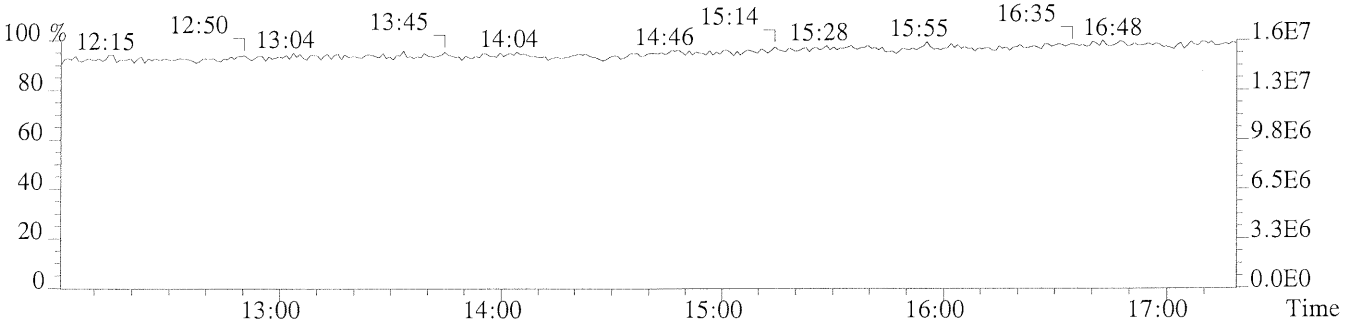
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1508.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1604.0,1.00%,F,T)

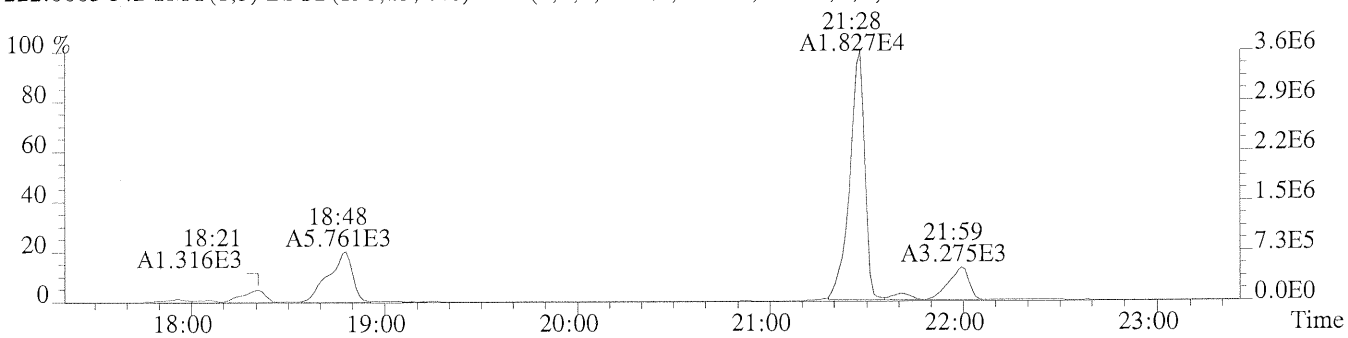


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

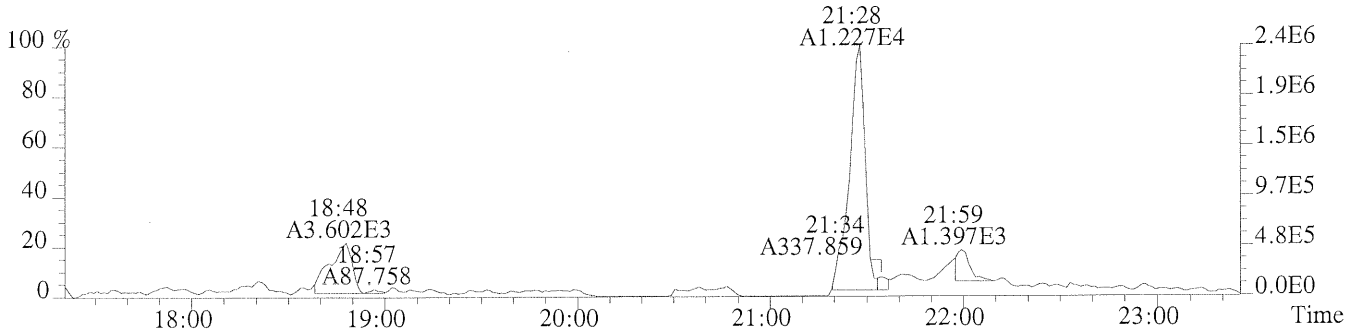


File:U142193 #1-336 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs

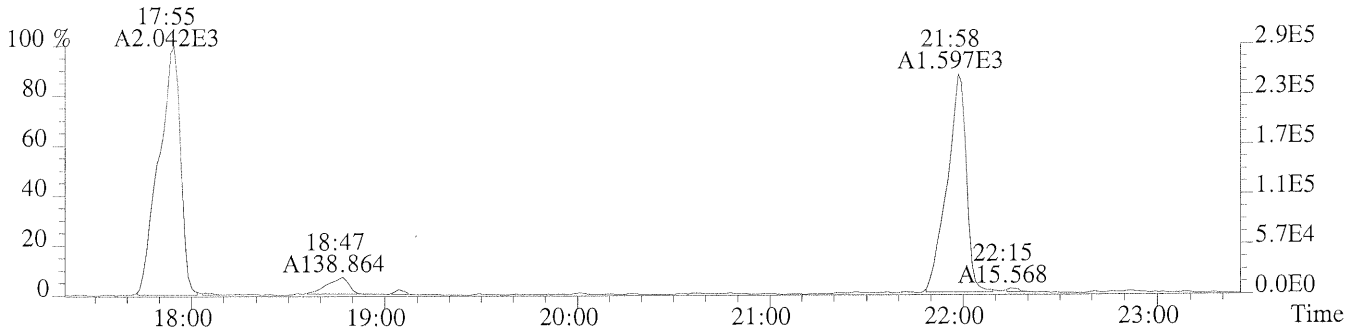
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2940.0,1.00%,F,T)



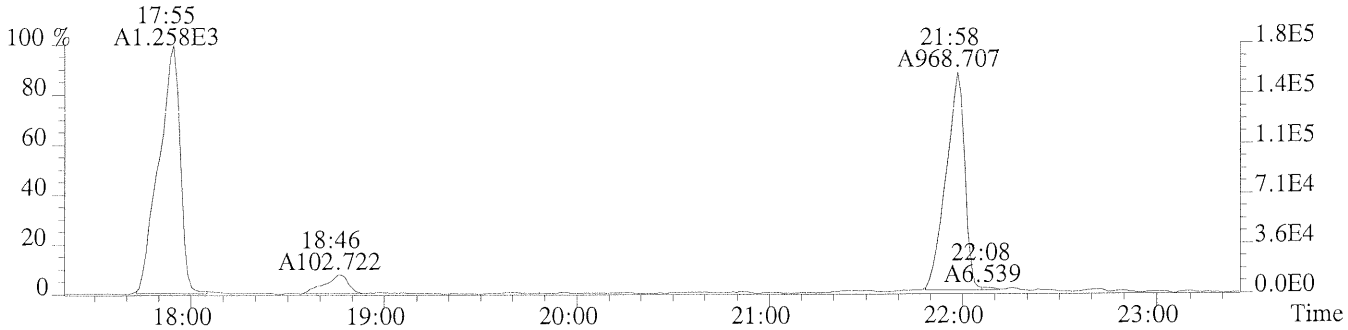
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,70492.0,1.00%,F,T)



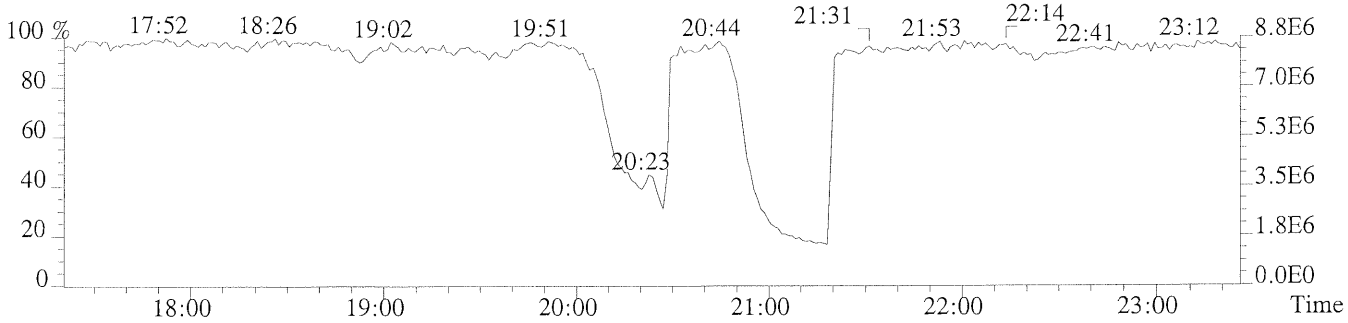
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1632.0,1.00%,F,T)



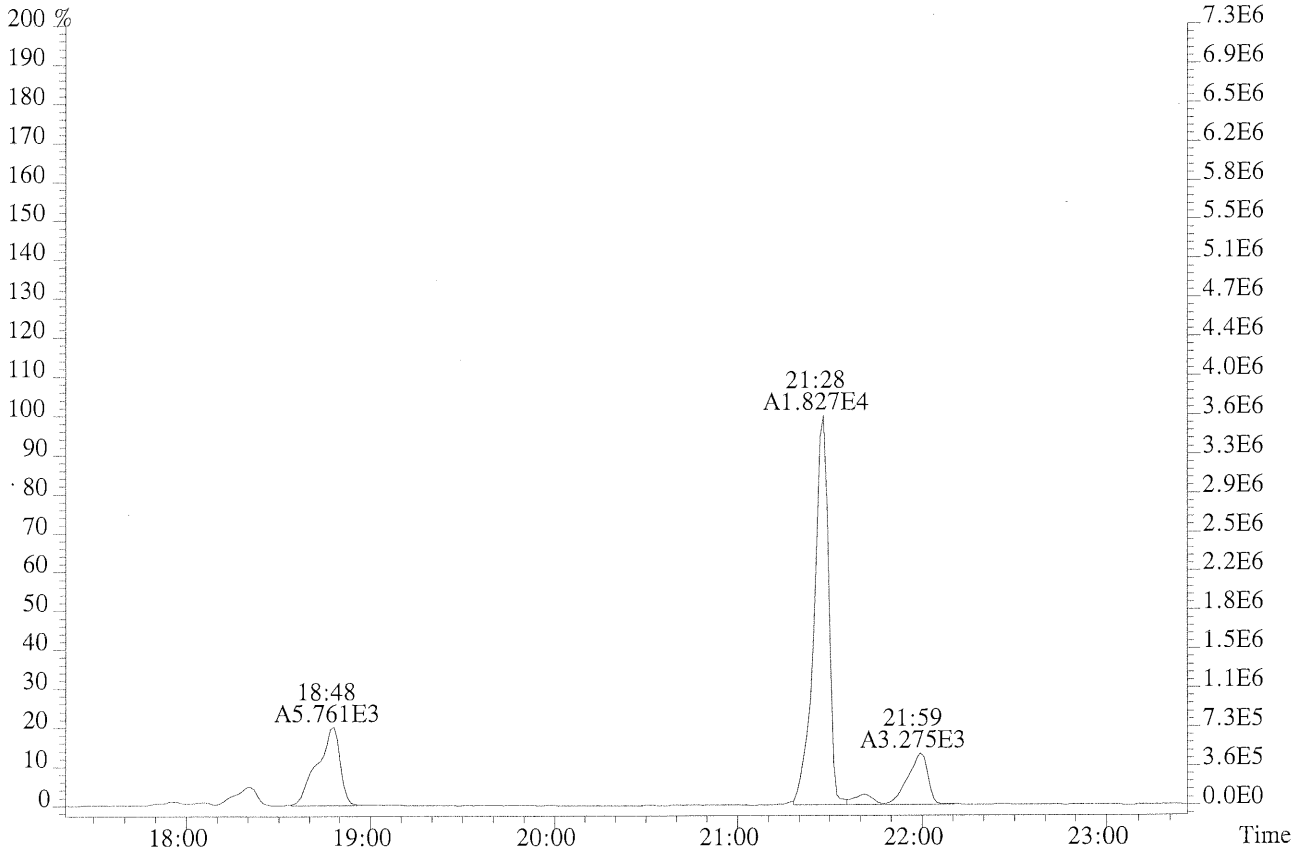
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



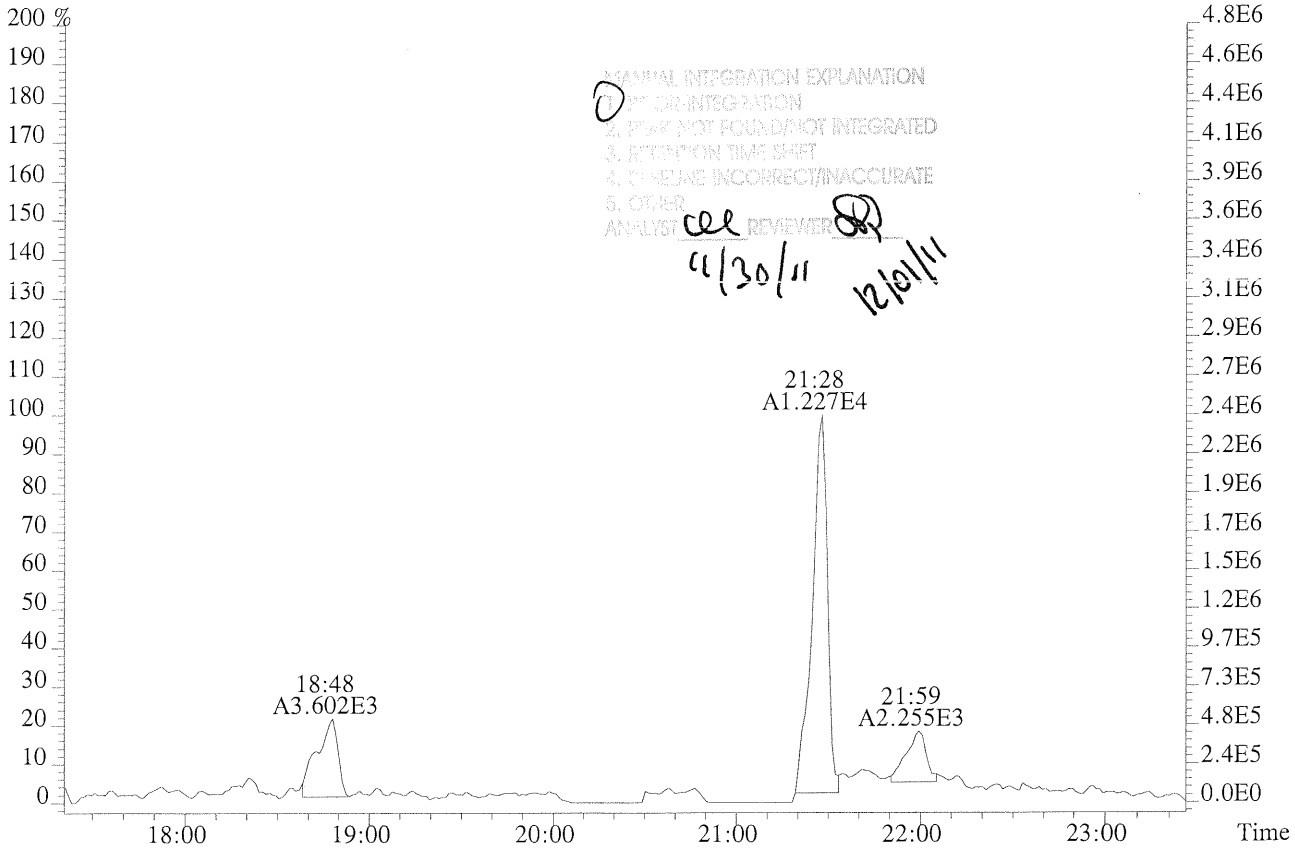
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142193 #1-336 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2940.0,1.00%,F,T)

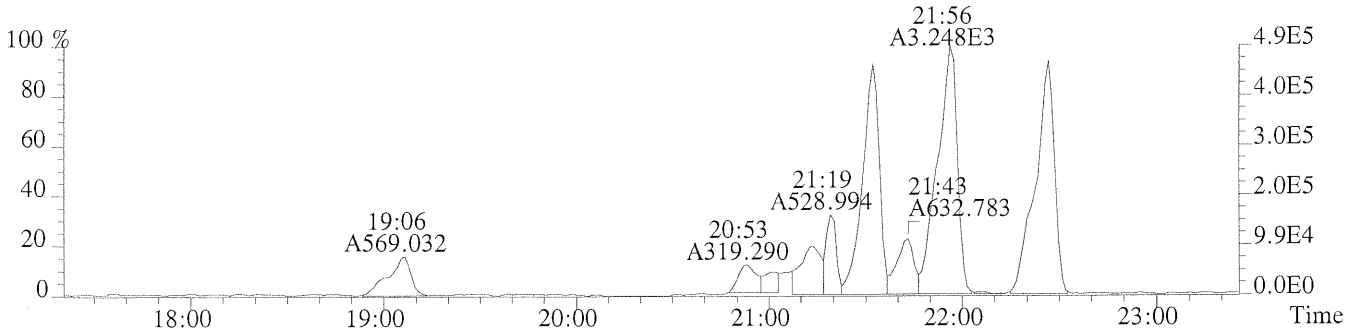


223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,70492.0,1.00%,F,T)

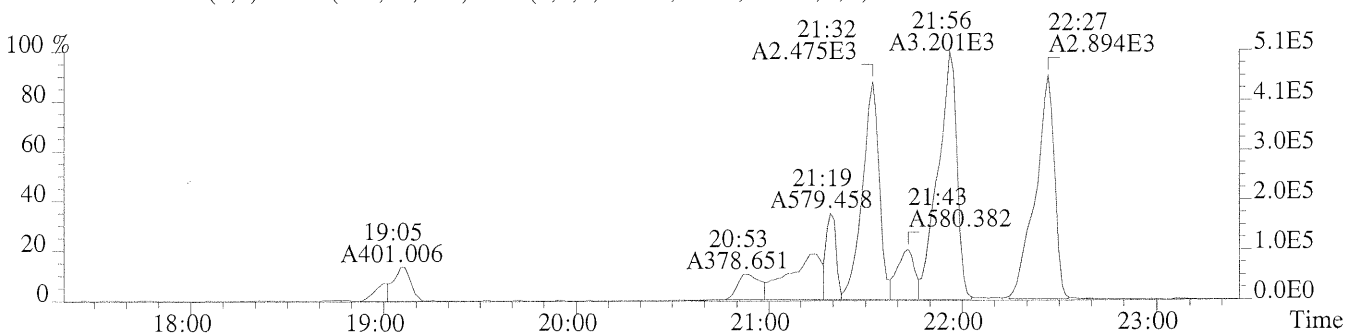


File:U142193 #1-336 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs

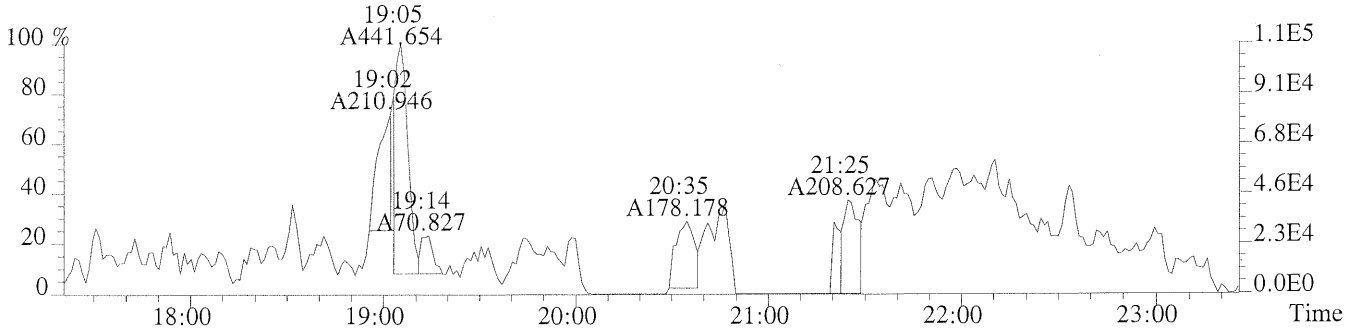
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4096.0,1.00%,F,T)



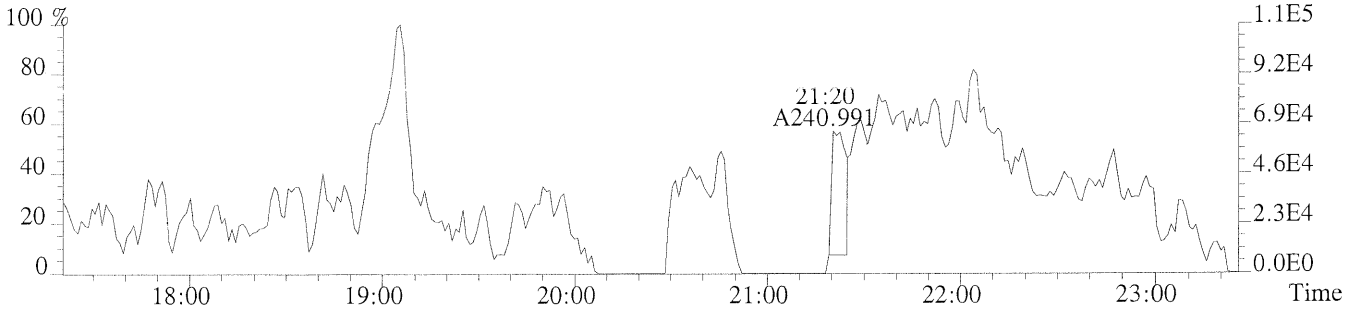
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,624.0,1.00%,F,T)



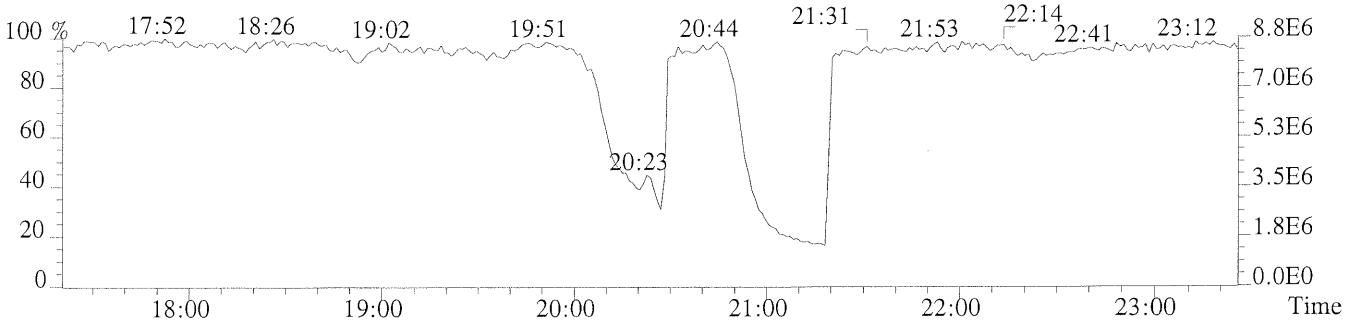
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,21364.0,1.00%,F,T)



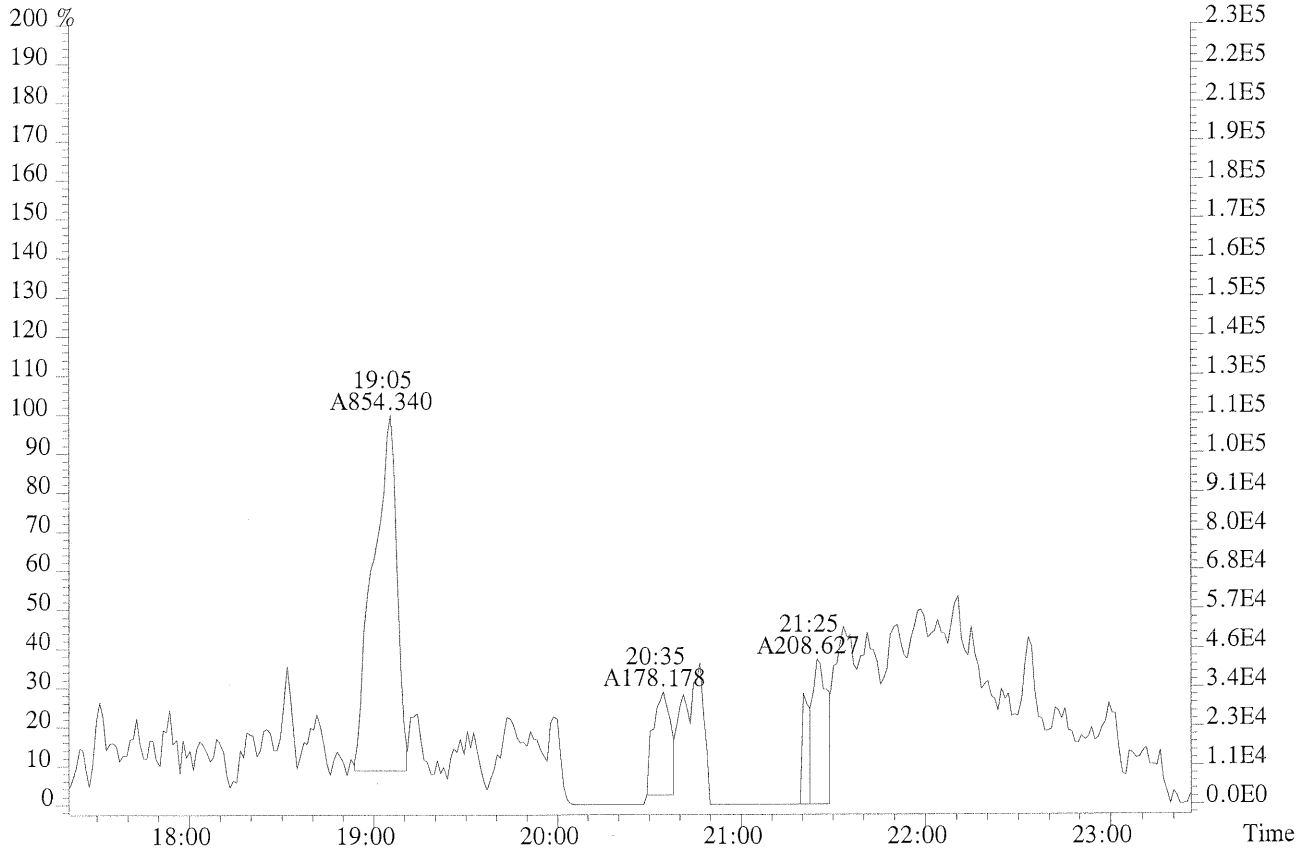
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,33872.0,1.00%,F,T)



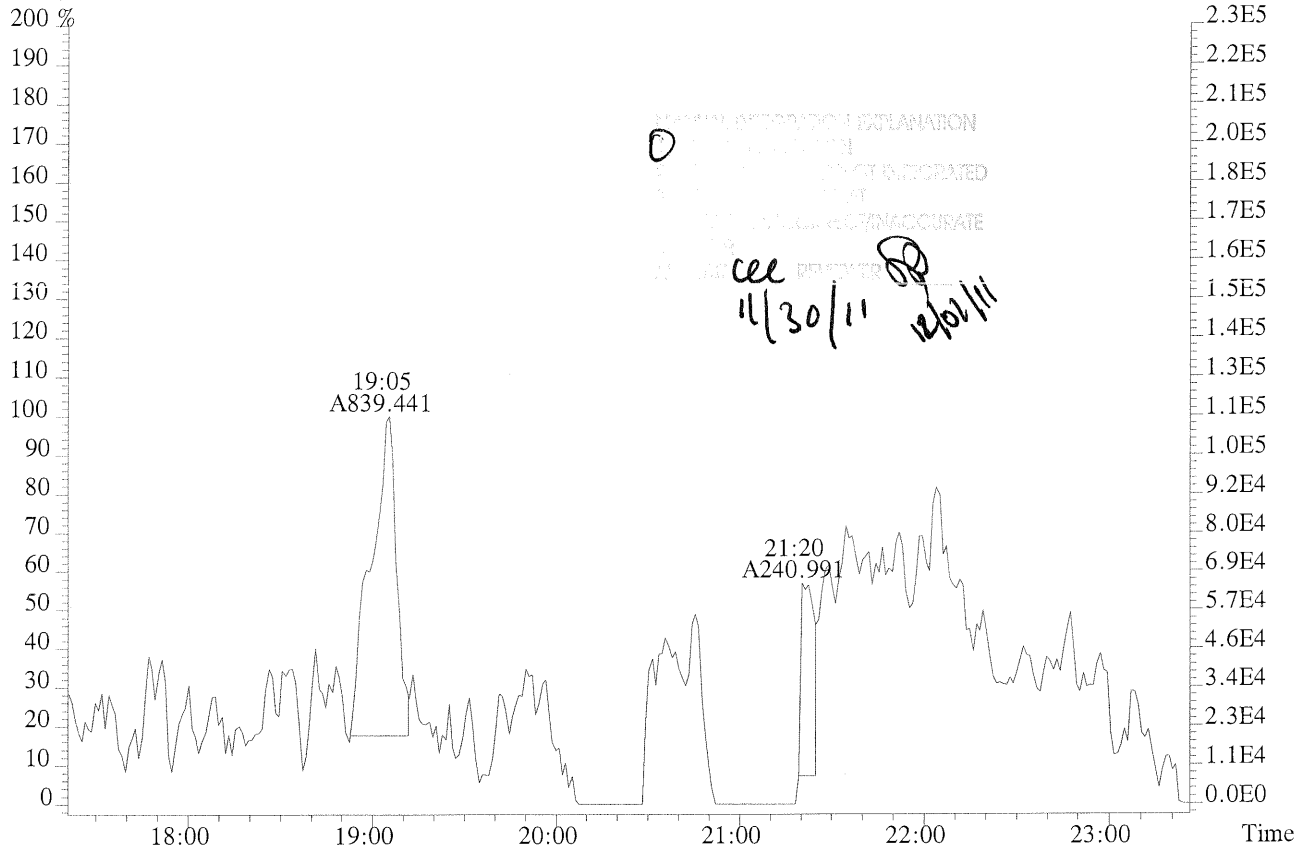
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



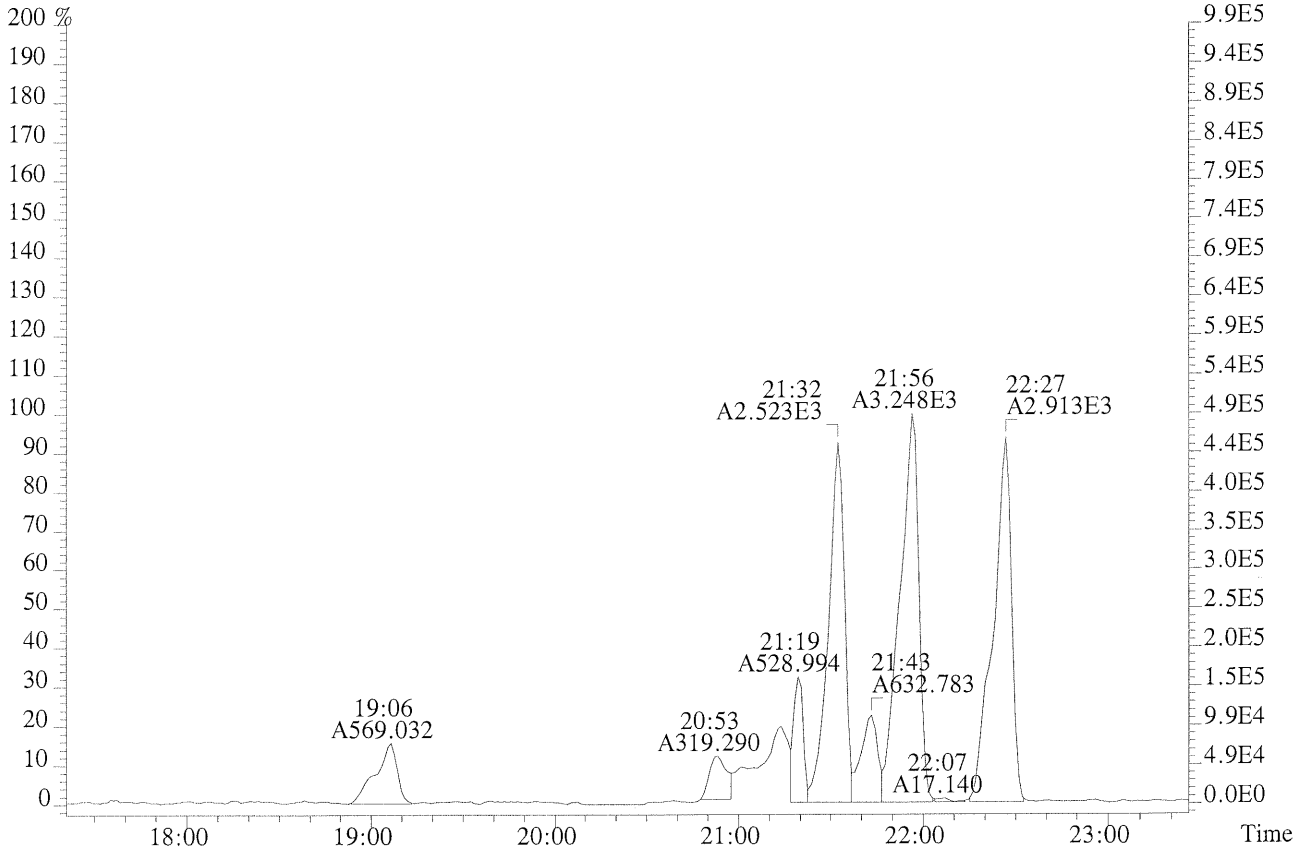
File:U142193 #1-336 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,21364.0,1.00%,F,T)



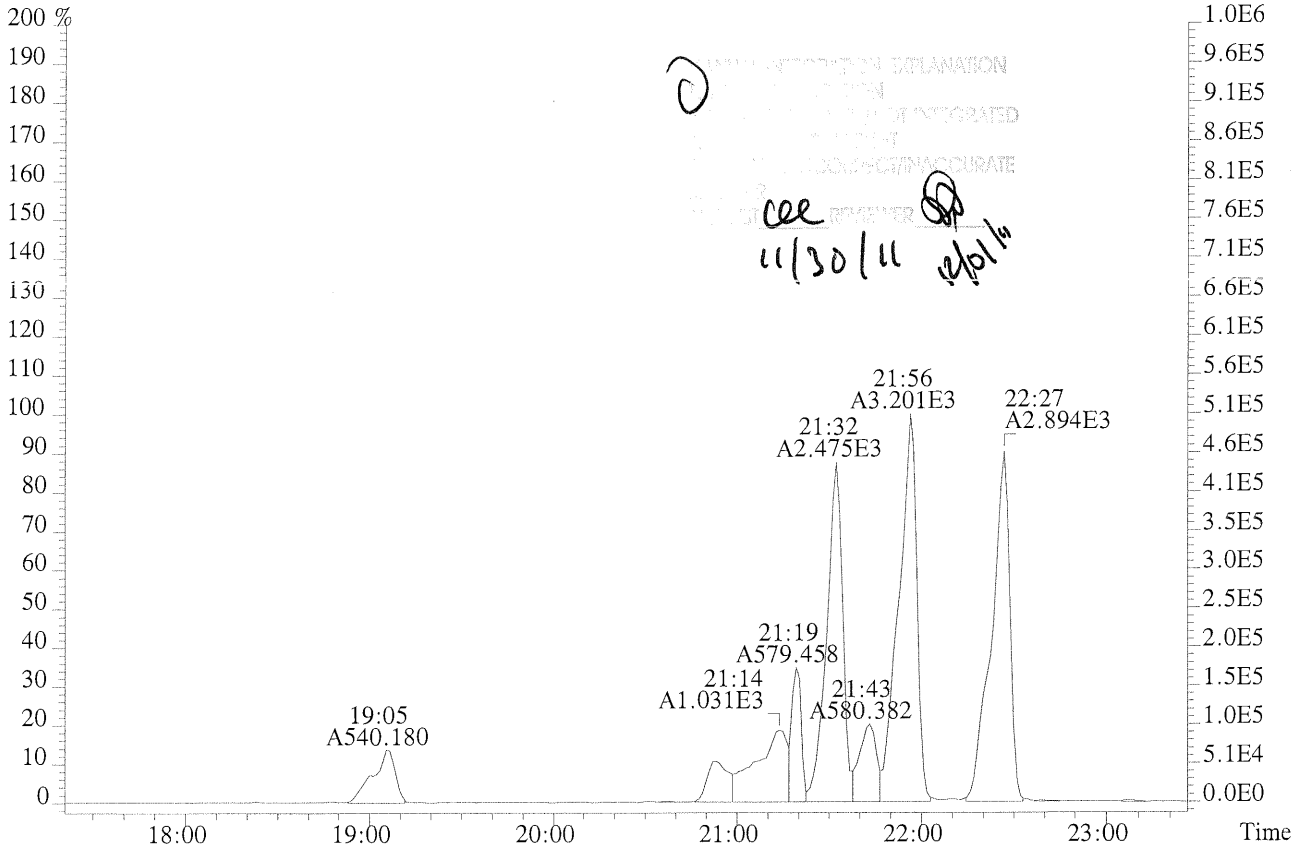
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,33872.0,1.00%,F,T)



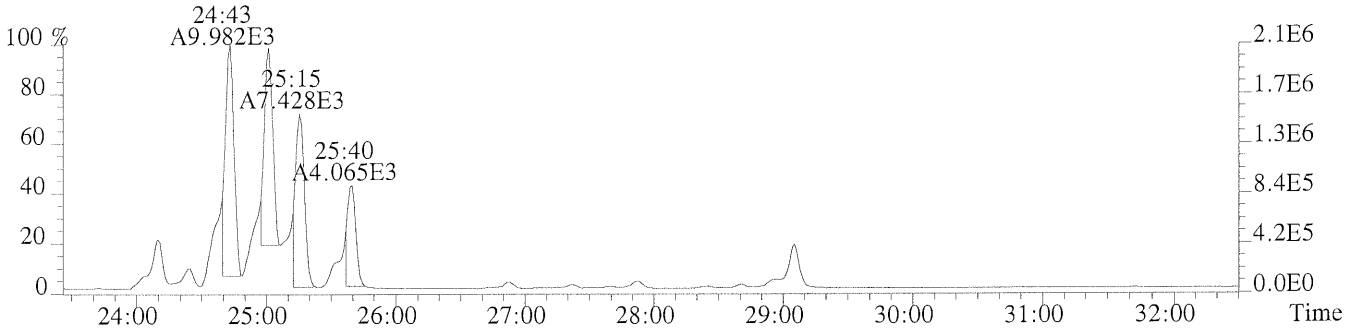
File:U142193 #1-336 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4096.0,1.00%,F,T)



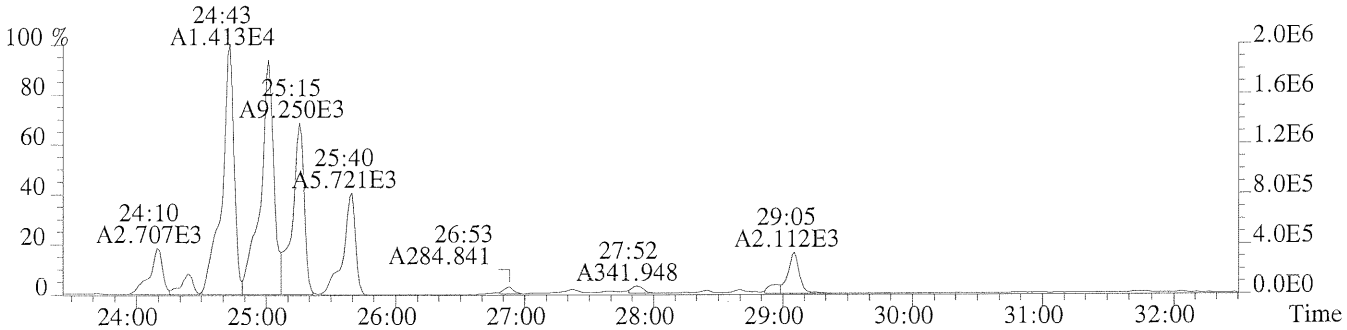
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,624.0,1.00%,F,T)



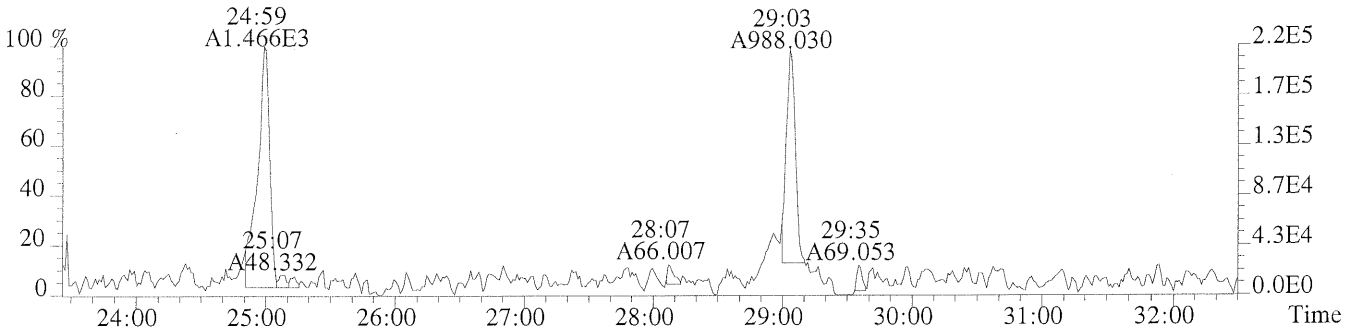
File:U142193 #1-580 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,227772.0,1.00%,F,T)



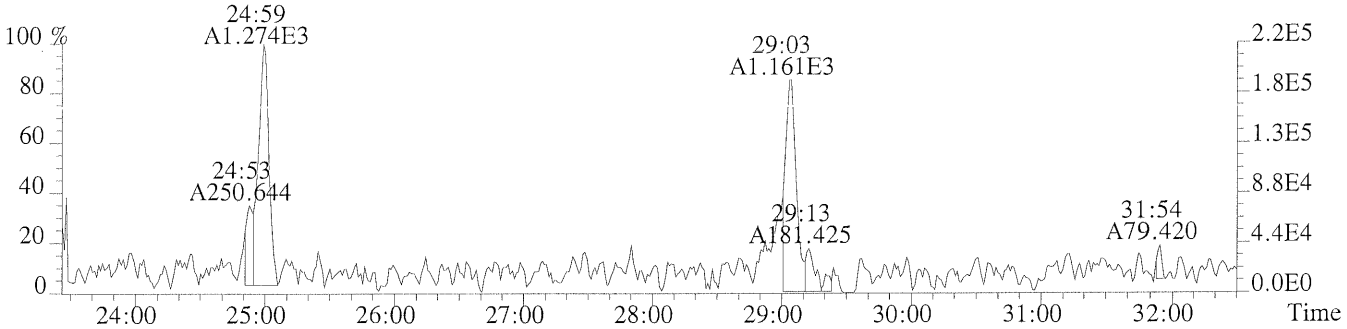
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10604.0,1.00%,F,T)



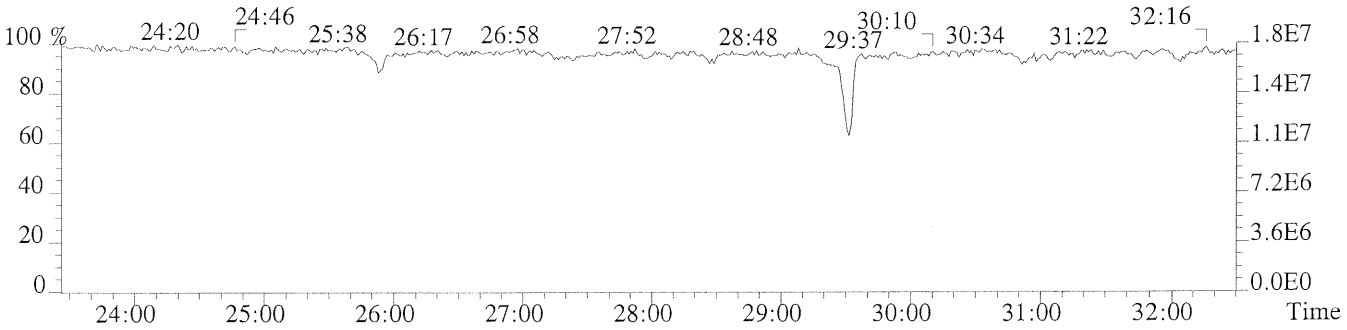
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16444.0,1.00%,F,T)



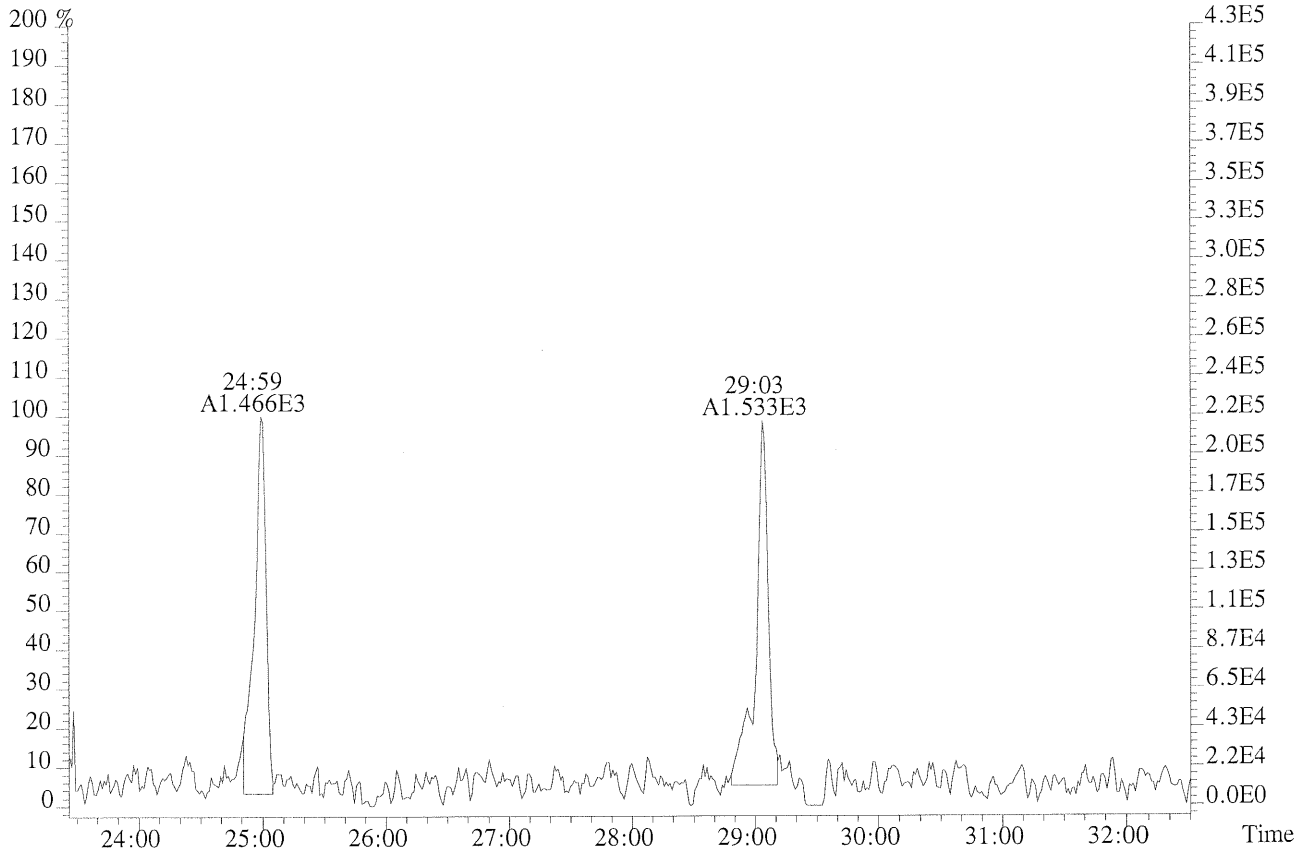
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,24248.0,1.00%,F,T)



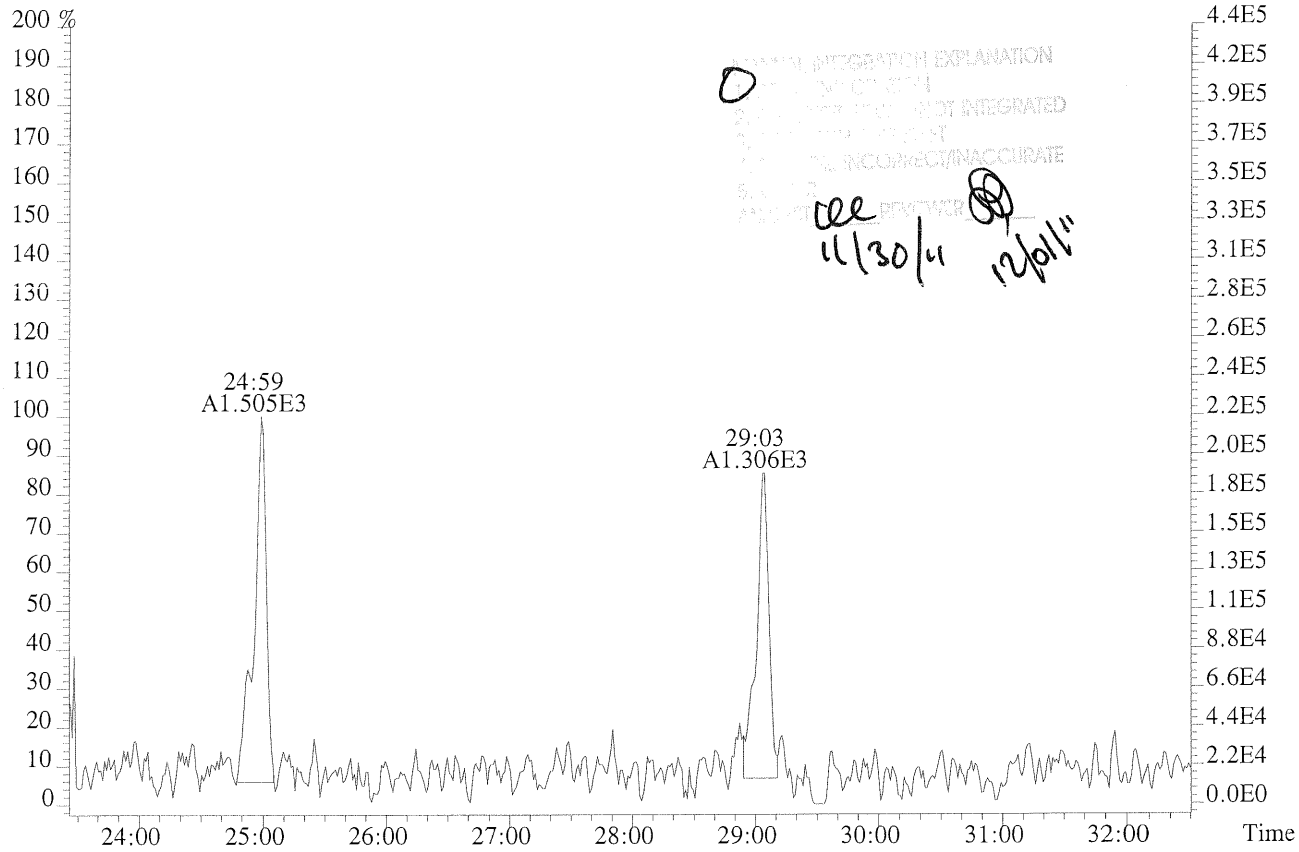
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



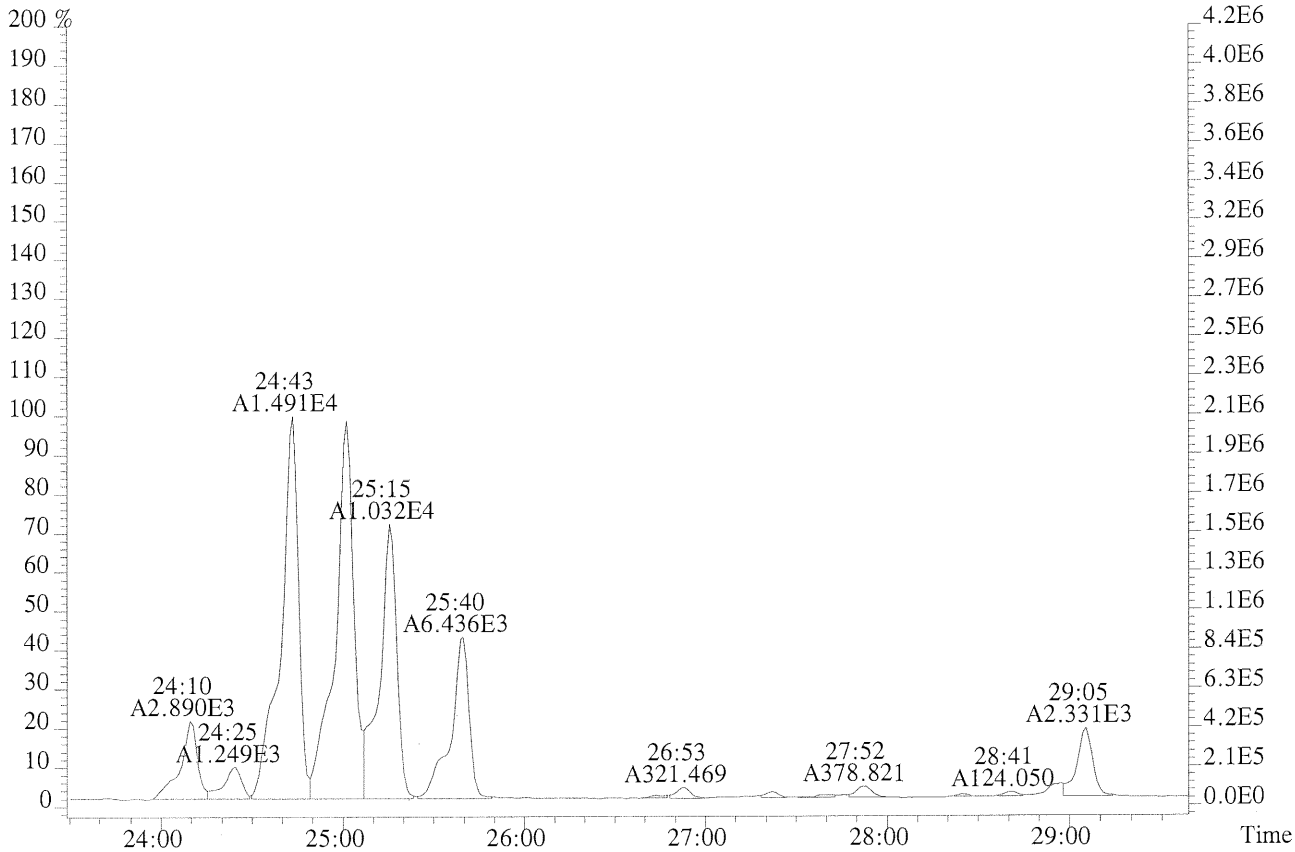
File:U142193 #1-580 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16444.0,1.00%,F,T)



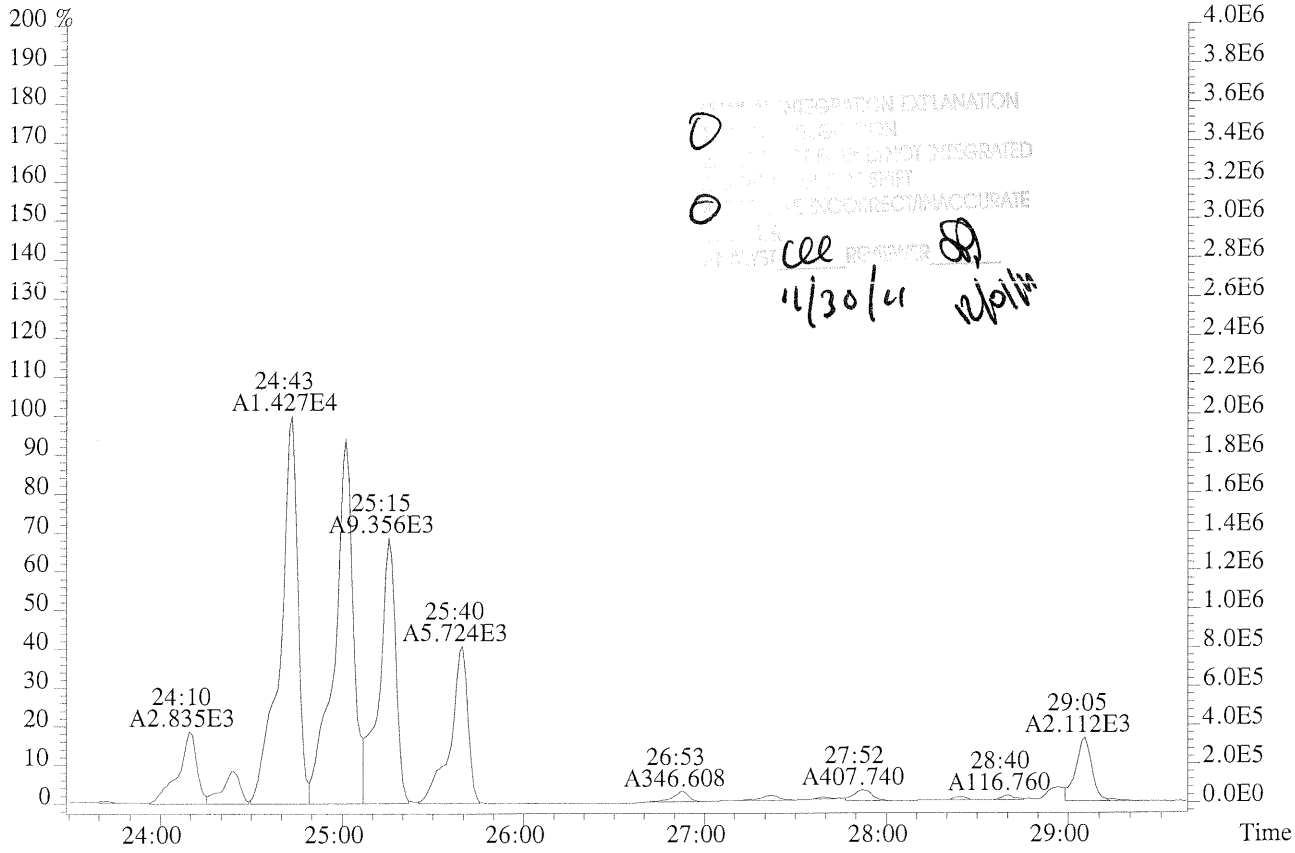
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,24248.0,1.00%,F,T)



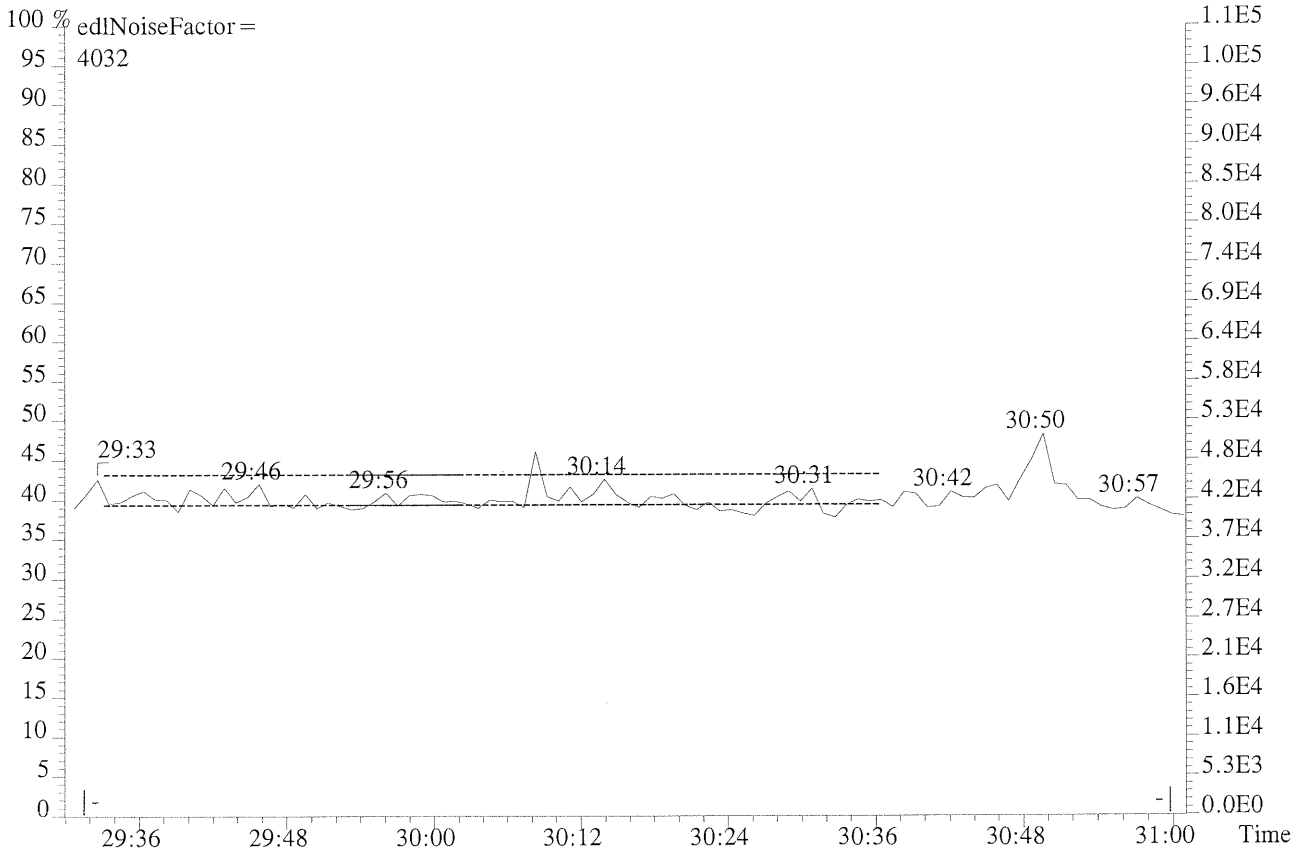
File:U142193 #1-580 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4032.0,1.00%,F,T)



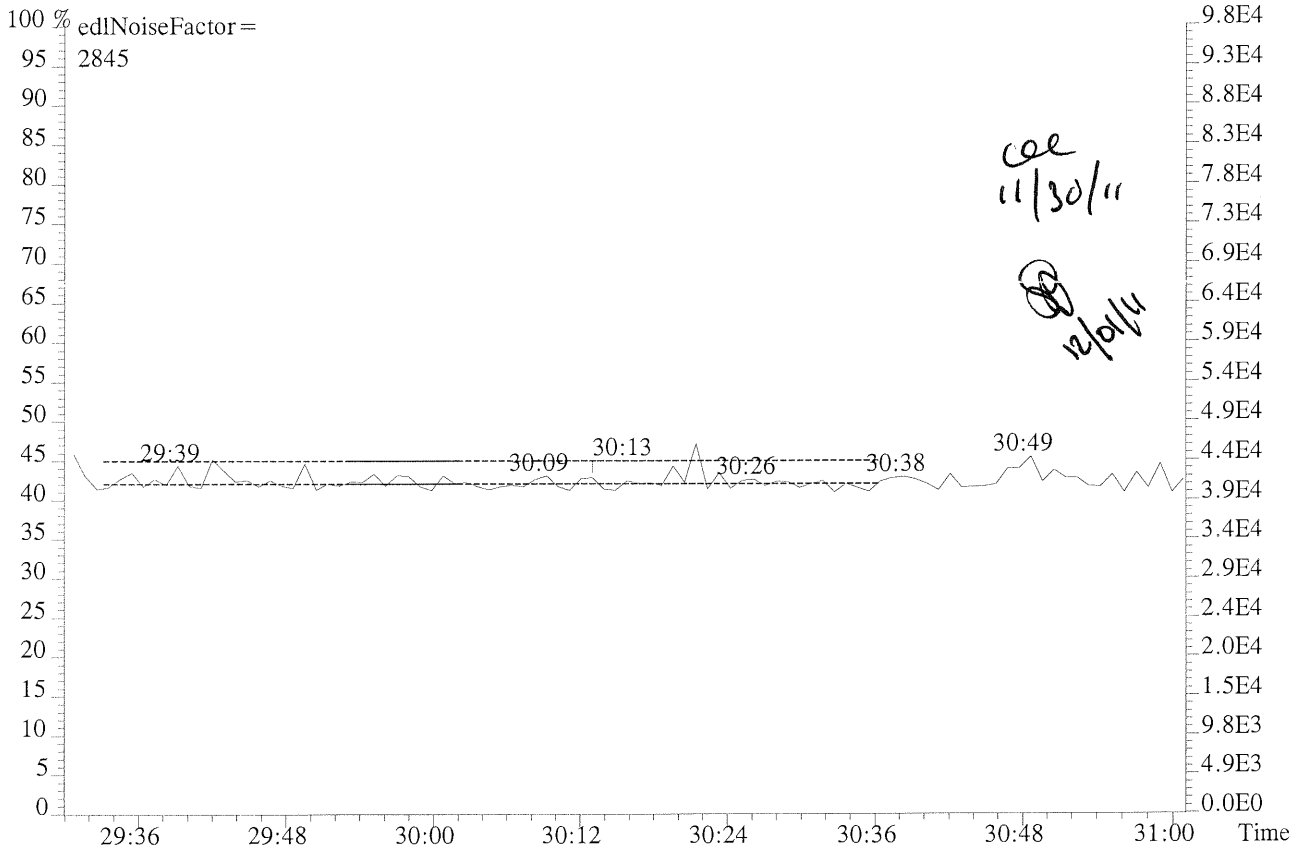
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2845.0,1.00%,F,T)



File:U142193 #1-580 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
255.9613 F:3



257.9584 F:3



cae
11/30/11

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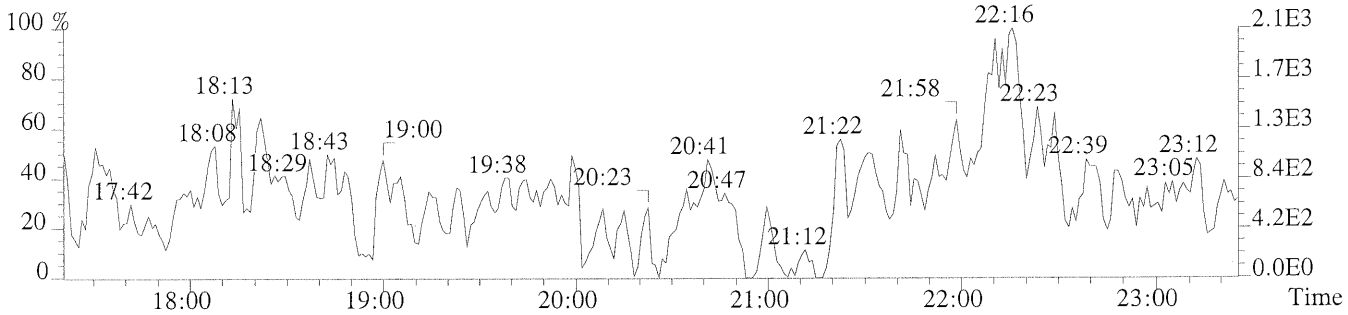
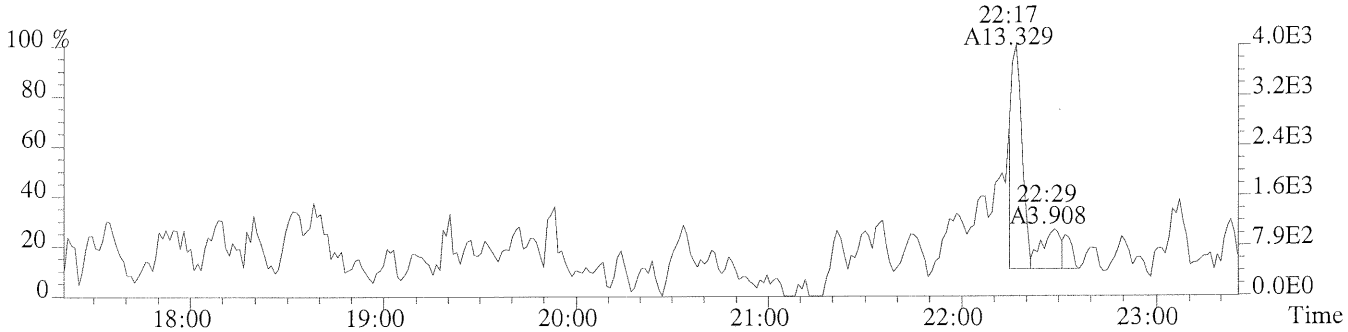
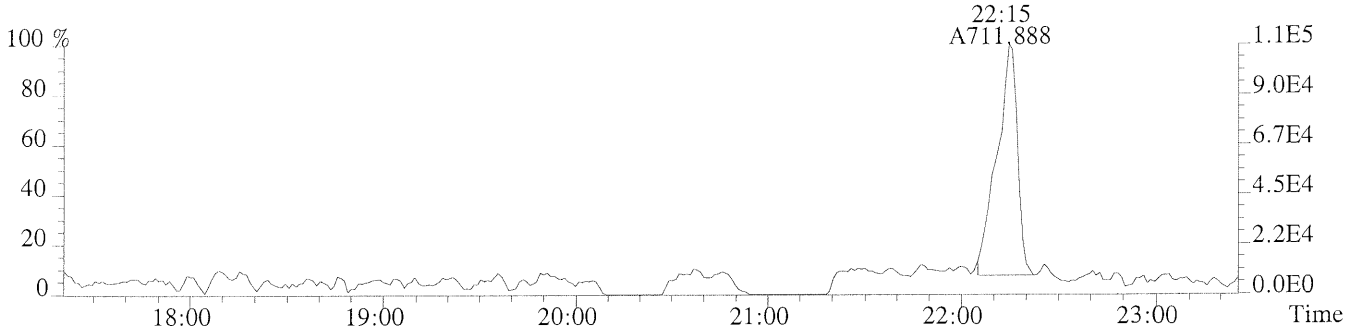
File:U142193 #1-336 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868.0,1.00%,F,T)



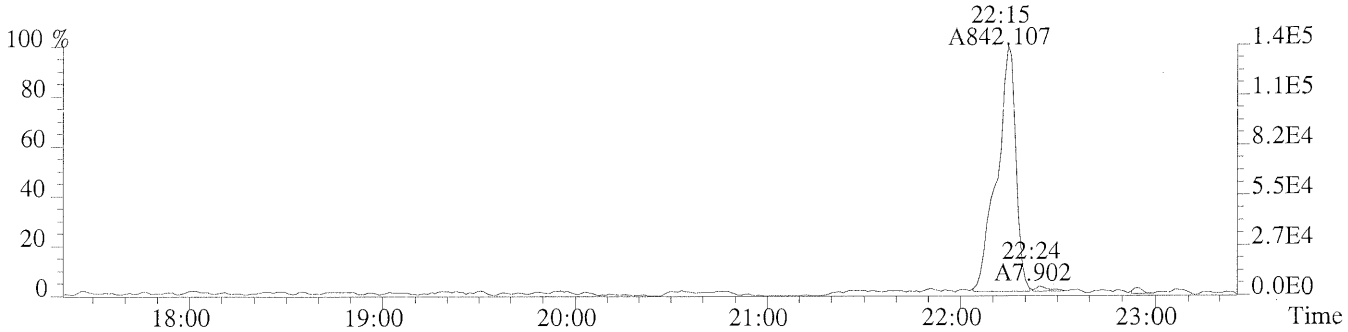
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



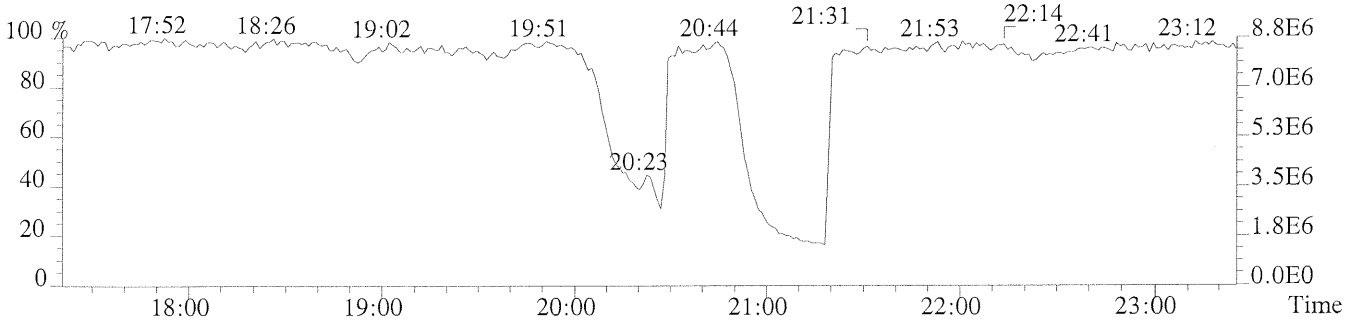
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7532.0,1.00%,F,T)



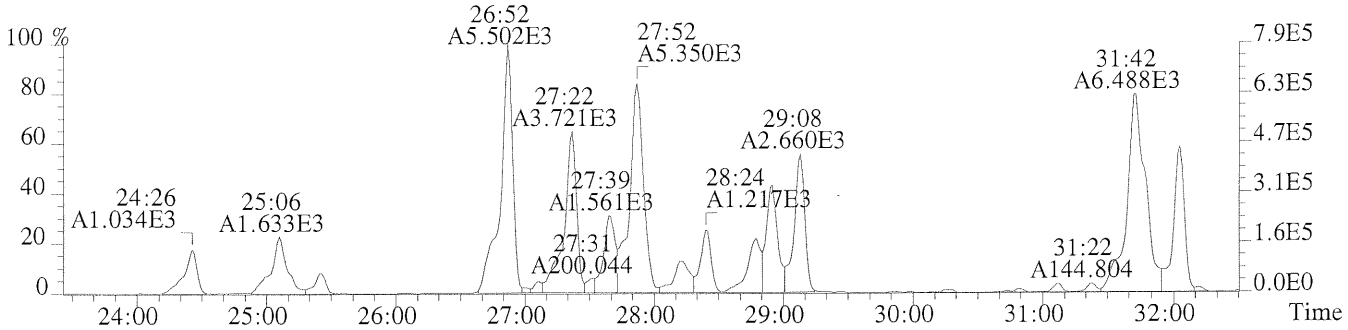
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2208.0,1.00%,F,T)



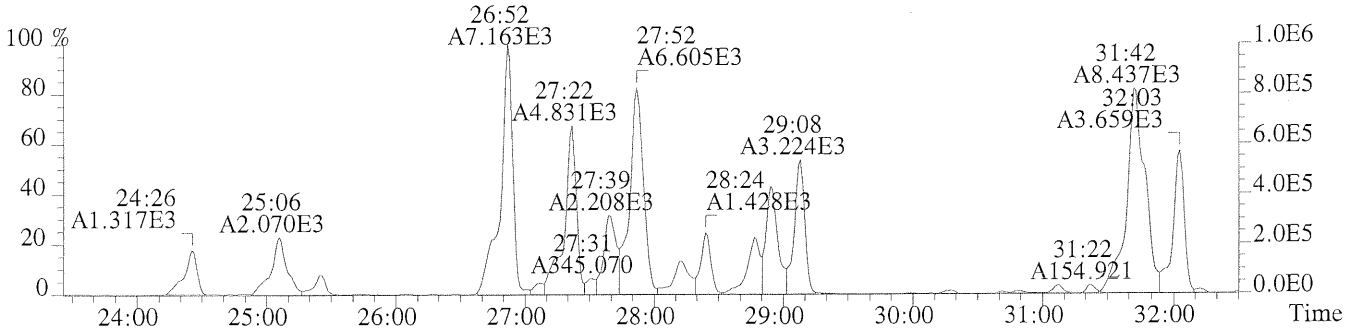
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



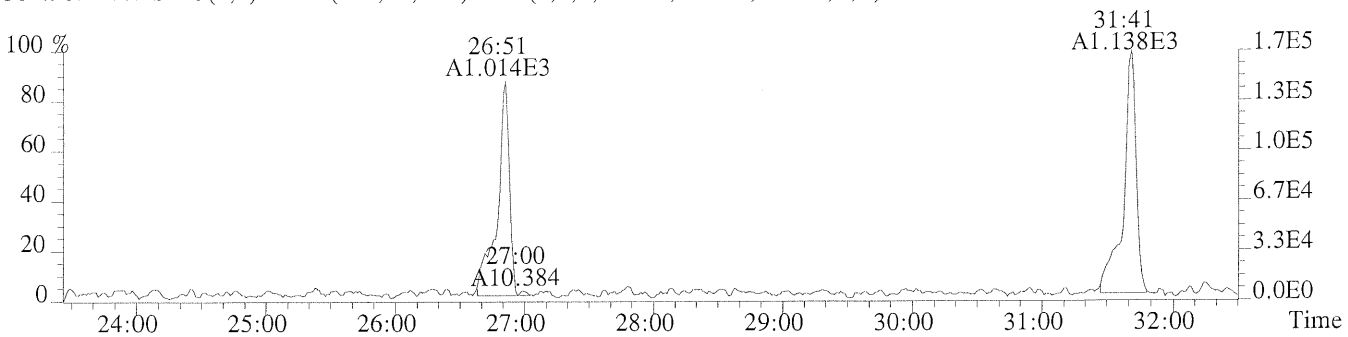
File:U142193 #1-580 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1352.0,1.00%,F,T)



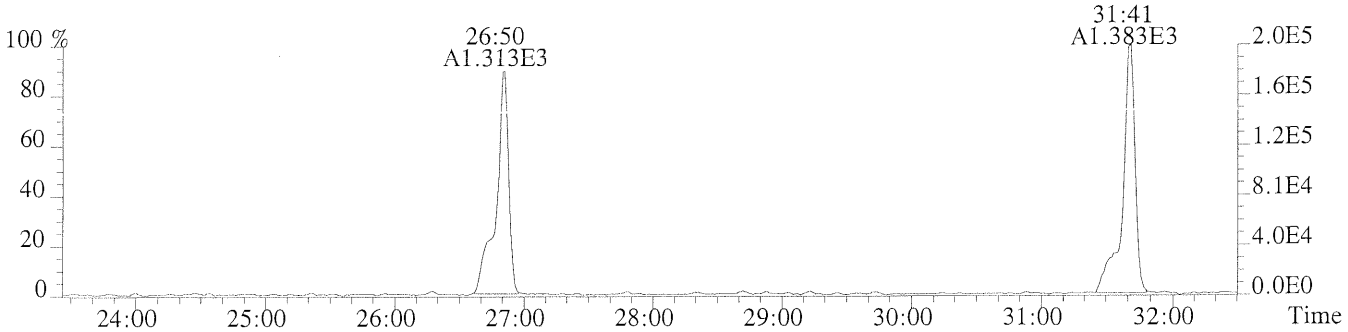
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1568.0,1.00%,F,T)



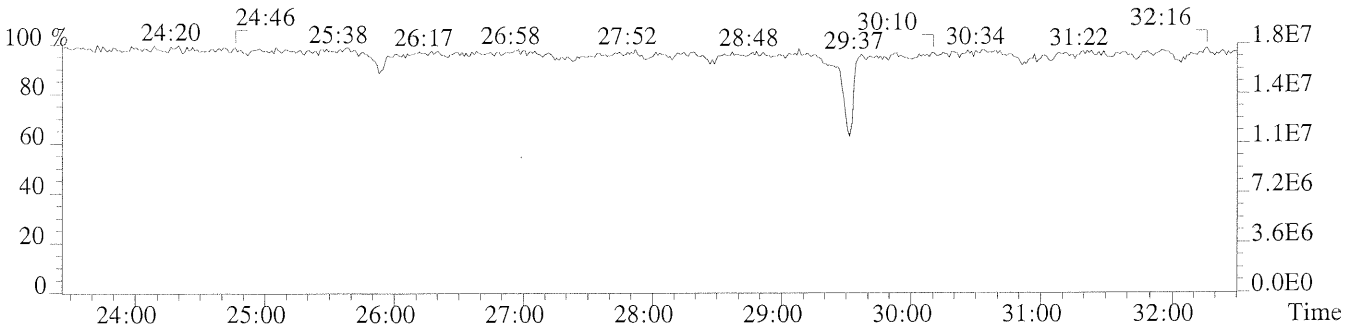
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6888.0,1.00%,F,T)



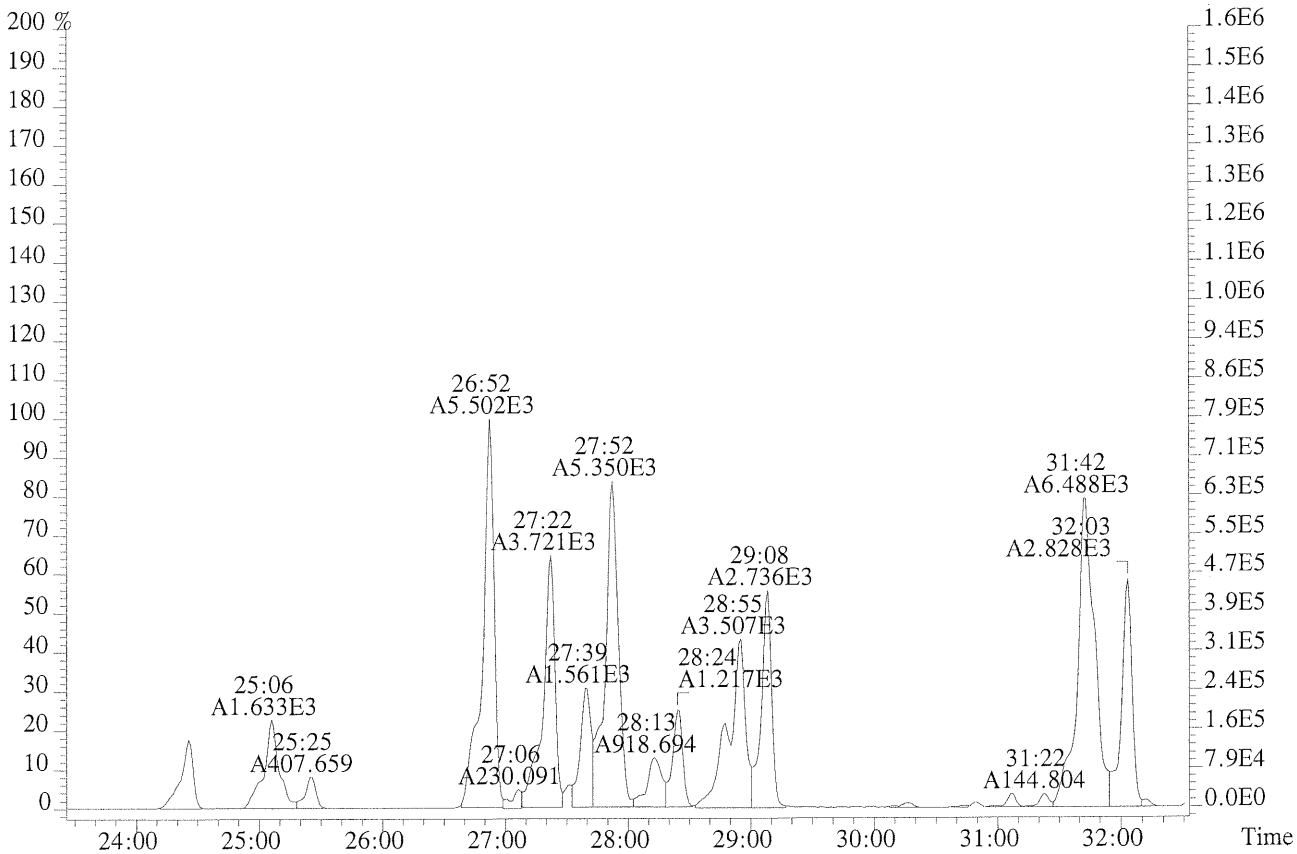
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2016.0,1.00%,F,T)



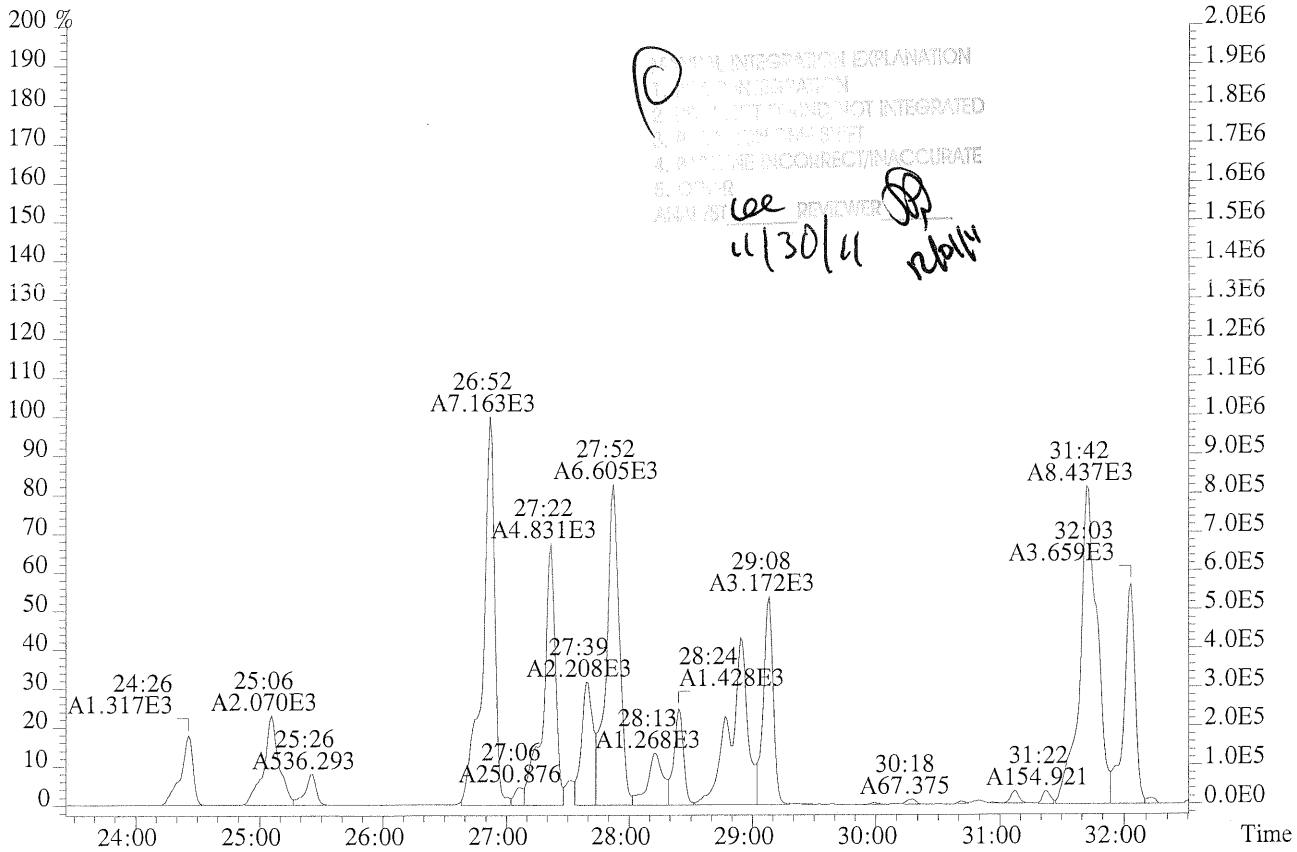
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142193 #1-580 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1352.0,1.00%,F,T)

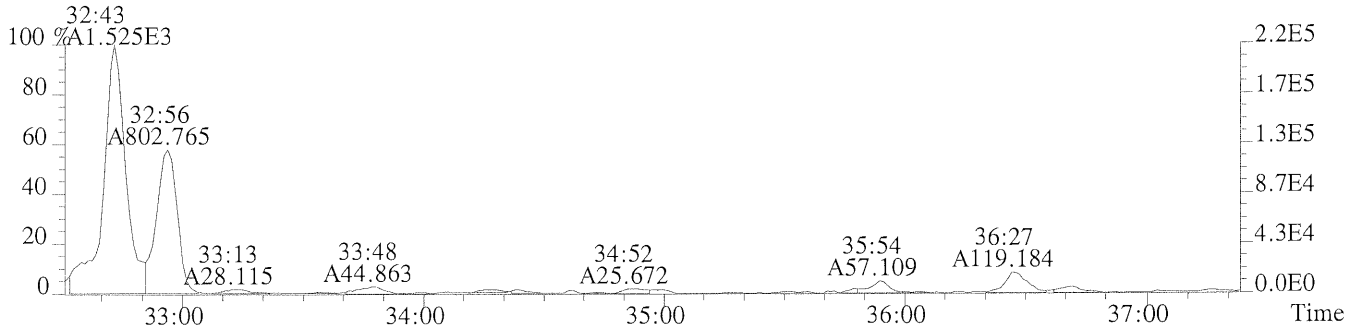


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1568.0,1.00%,F,T)

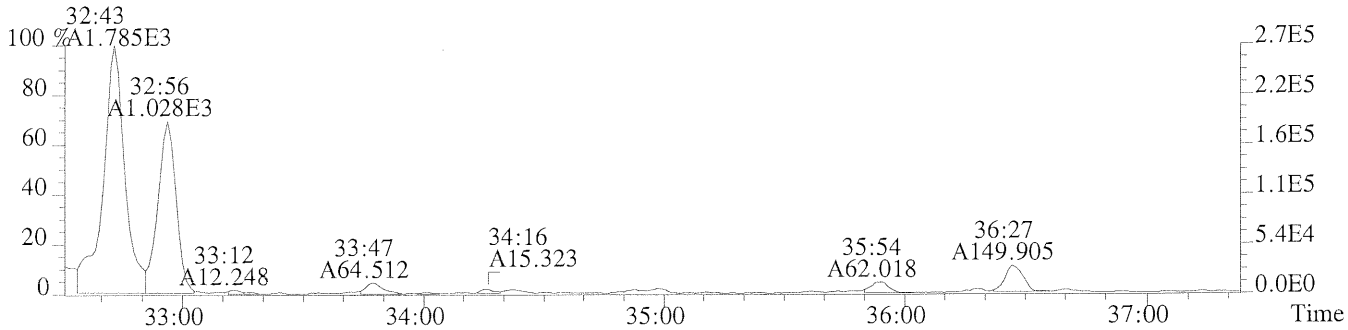


INTEGRATION EXPLANATION
1. [illegible]
2. [illegible] NOT INTEGRATED
3. [illegible]
4. [illegible] INCORRECT/INACCURATE
5. OTHER
ADDITIONAL REVIEWER COMMENTS
Lee 11/30/11 RB 12/01/11

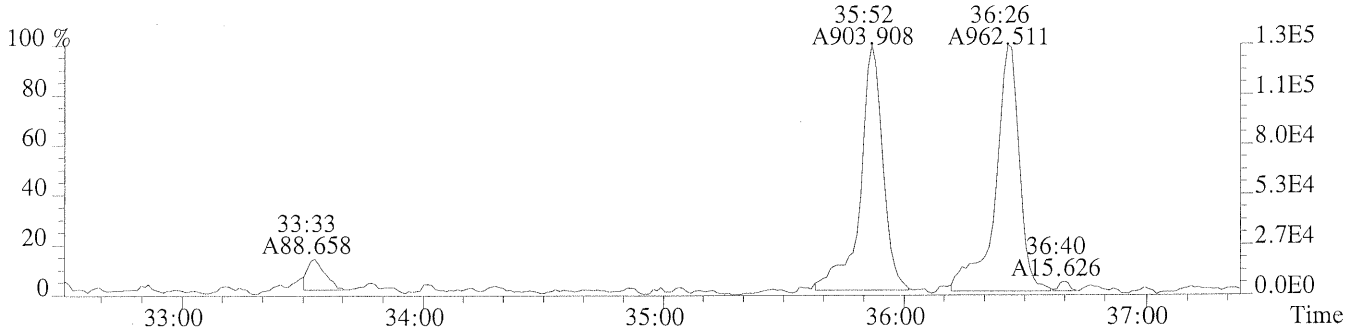
File:U142193 #1-312 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1060.0,1.00%,F,T)



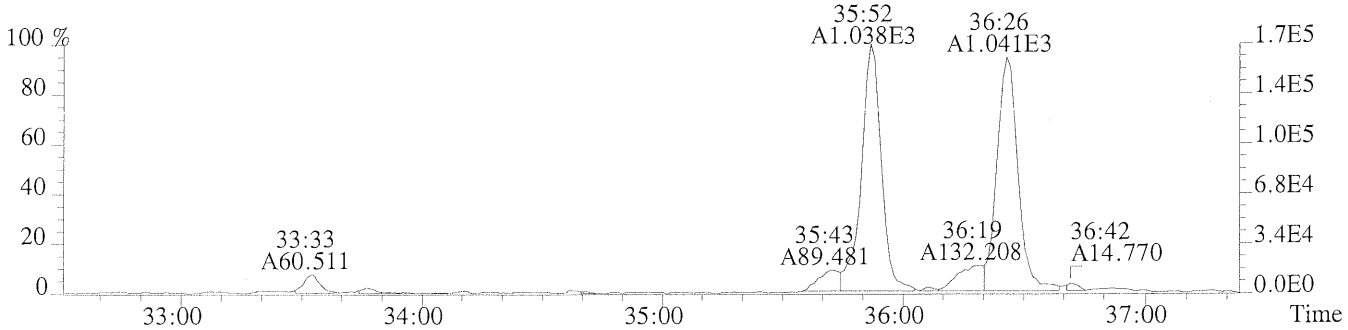
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2168.0,1.00%,F,T)



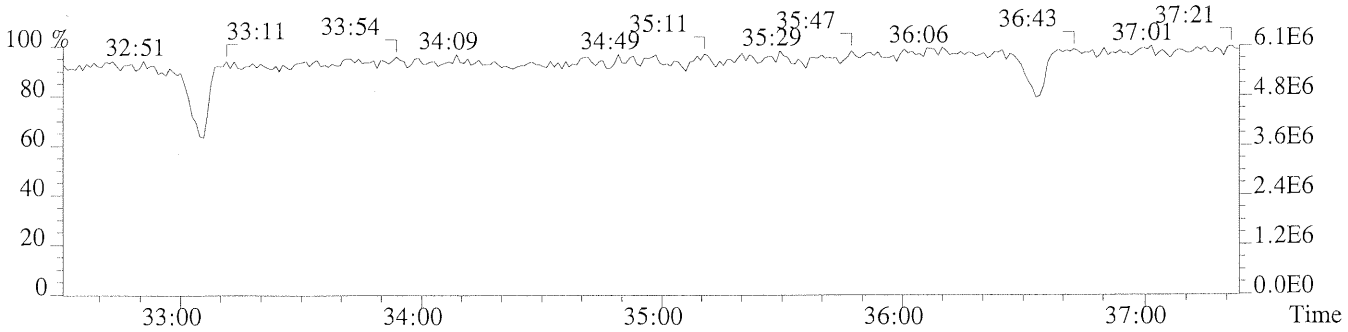
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3448.0,1.00%,F,T)



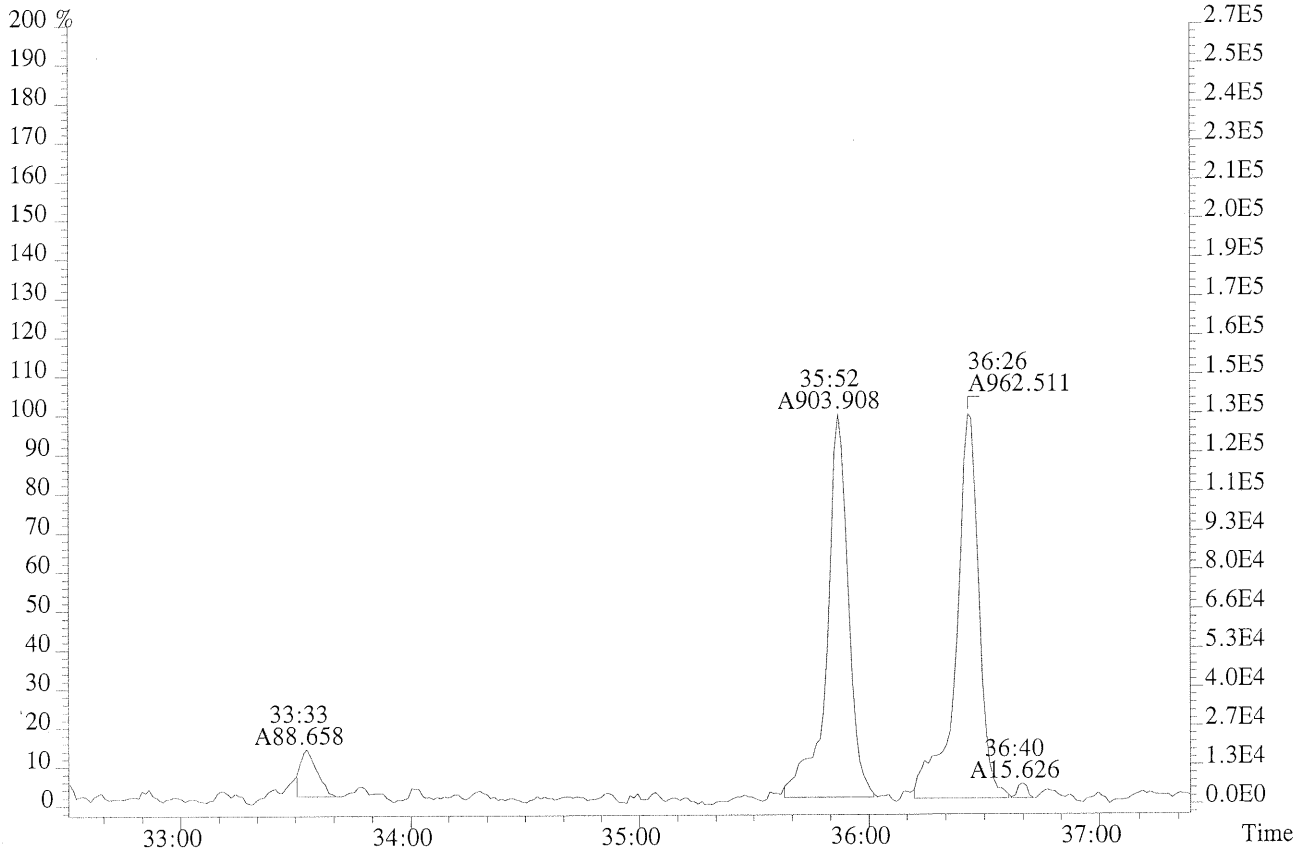
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1332.0,1.00%,F,T)



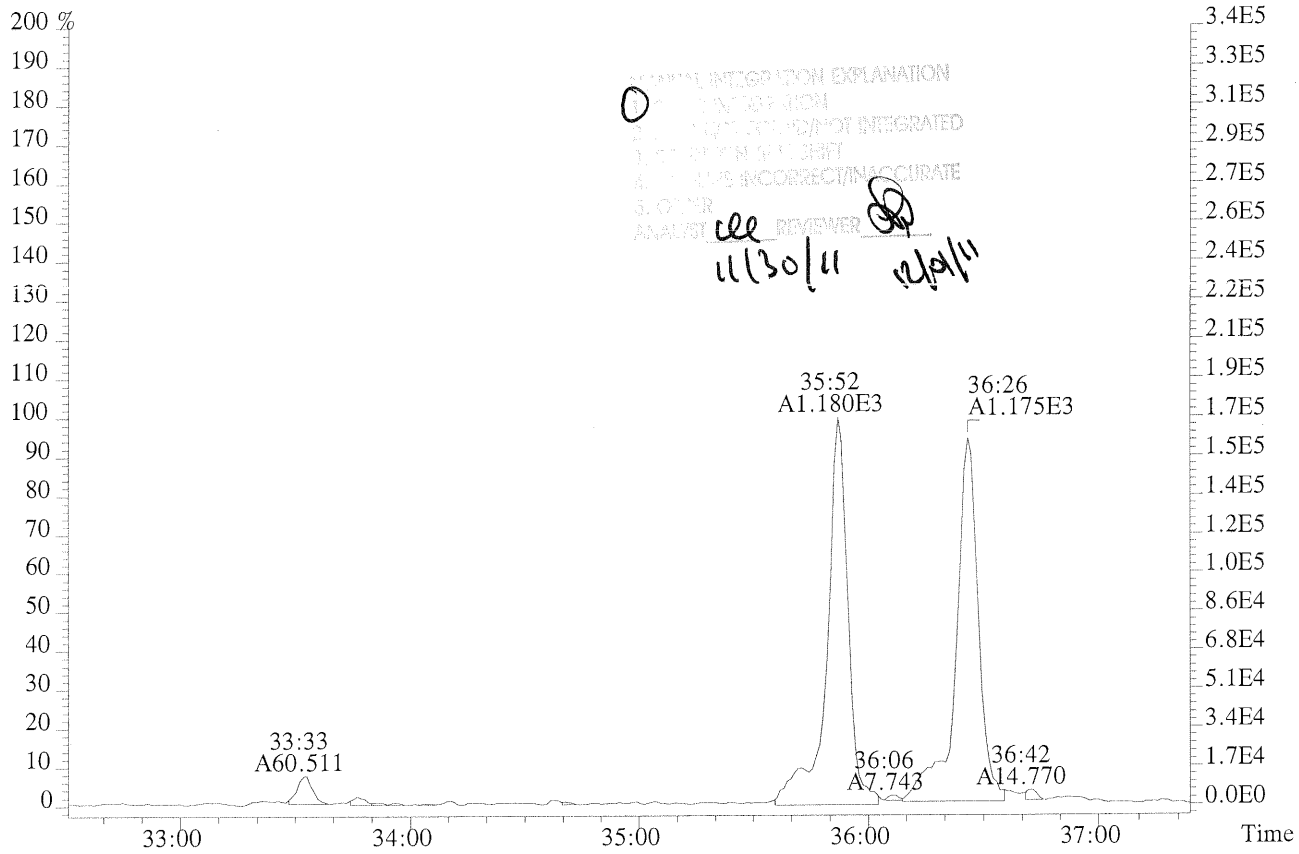
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



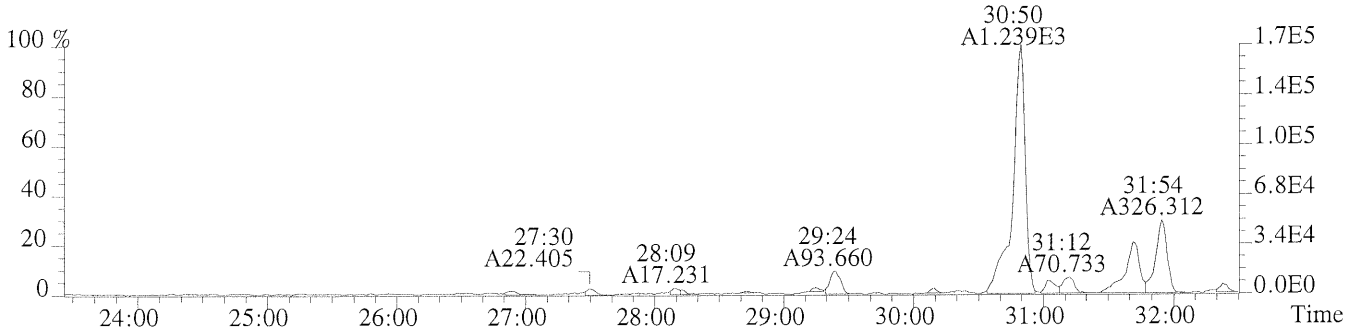
File:U142193 #1-312 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3448.0,1.00%,F,T)



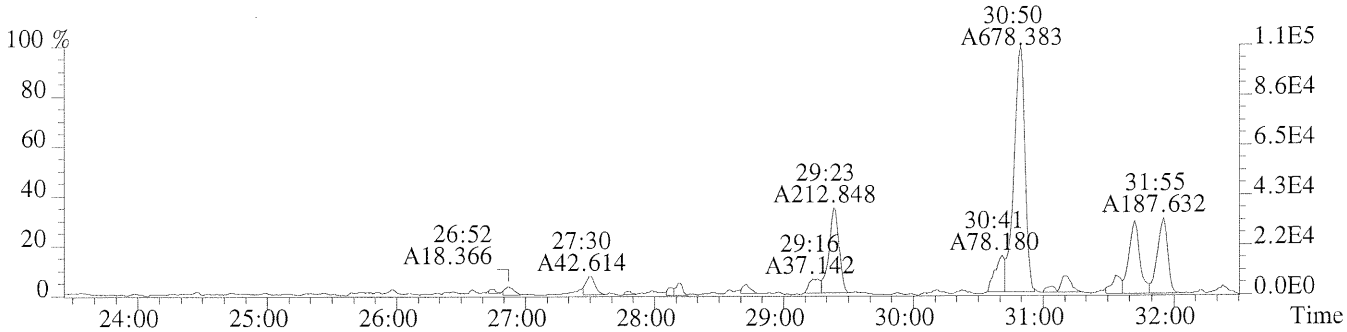
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1332.0,1.00%,F,T)



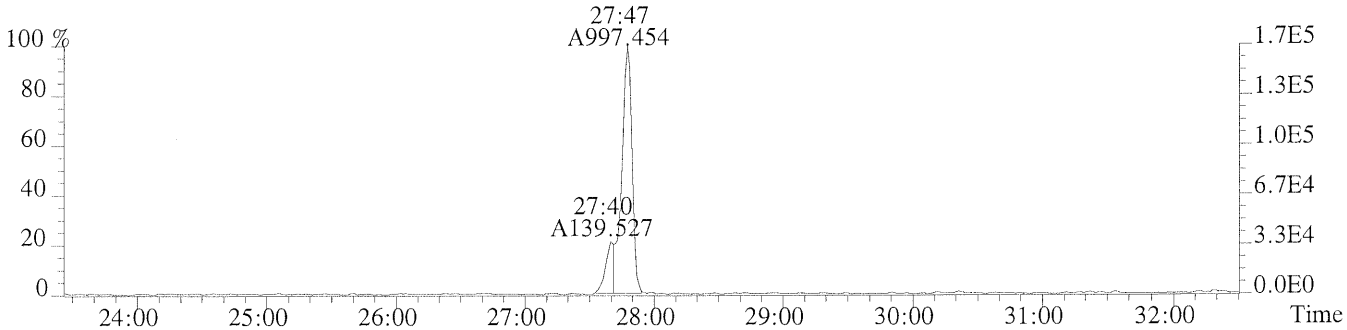
File:U142193 #1-580 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1032.0,1.00%,F,T)



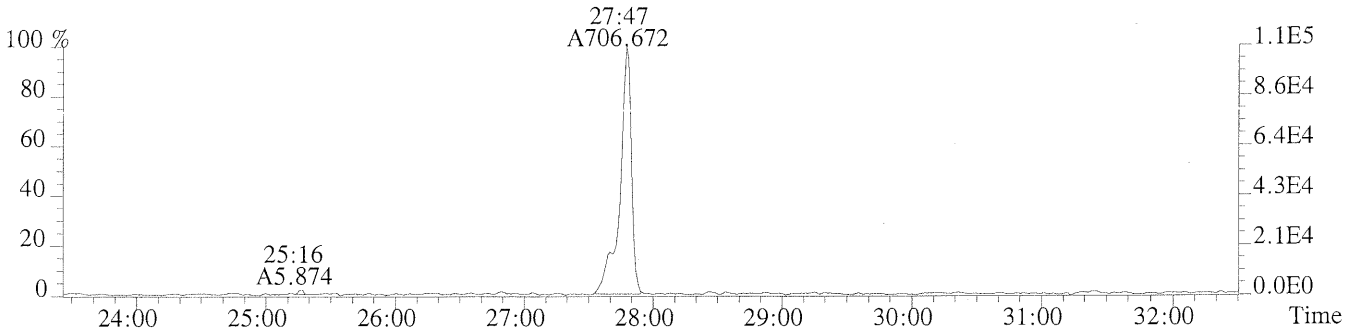
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)



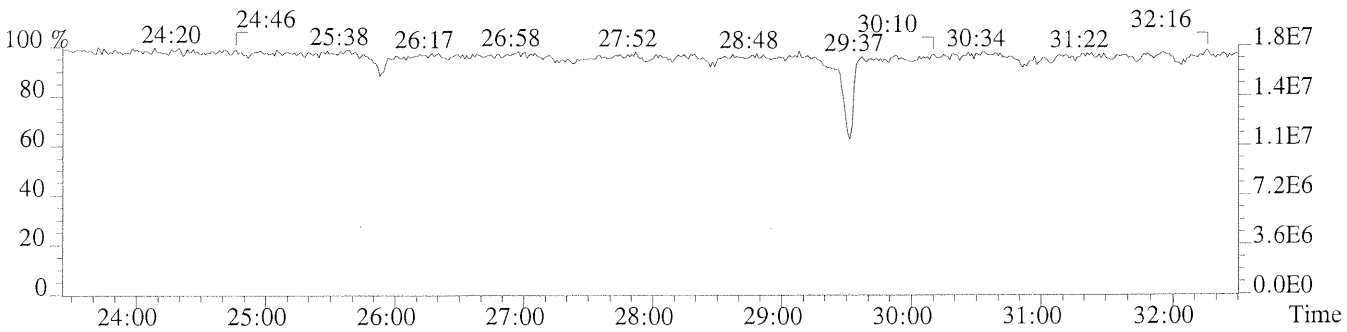
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



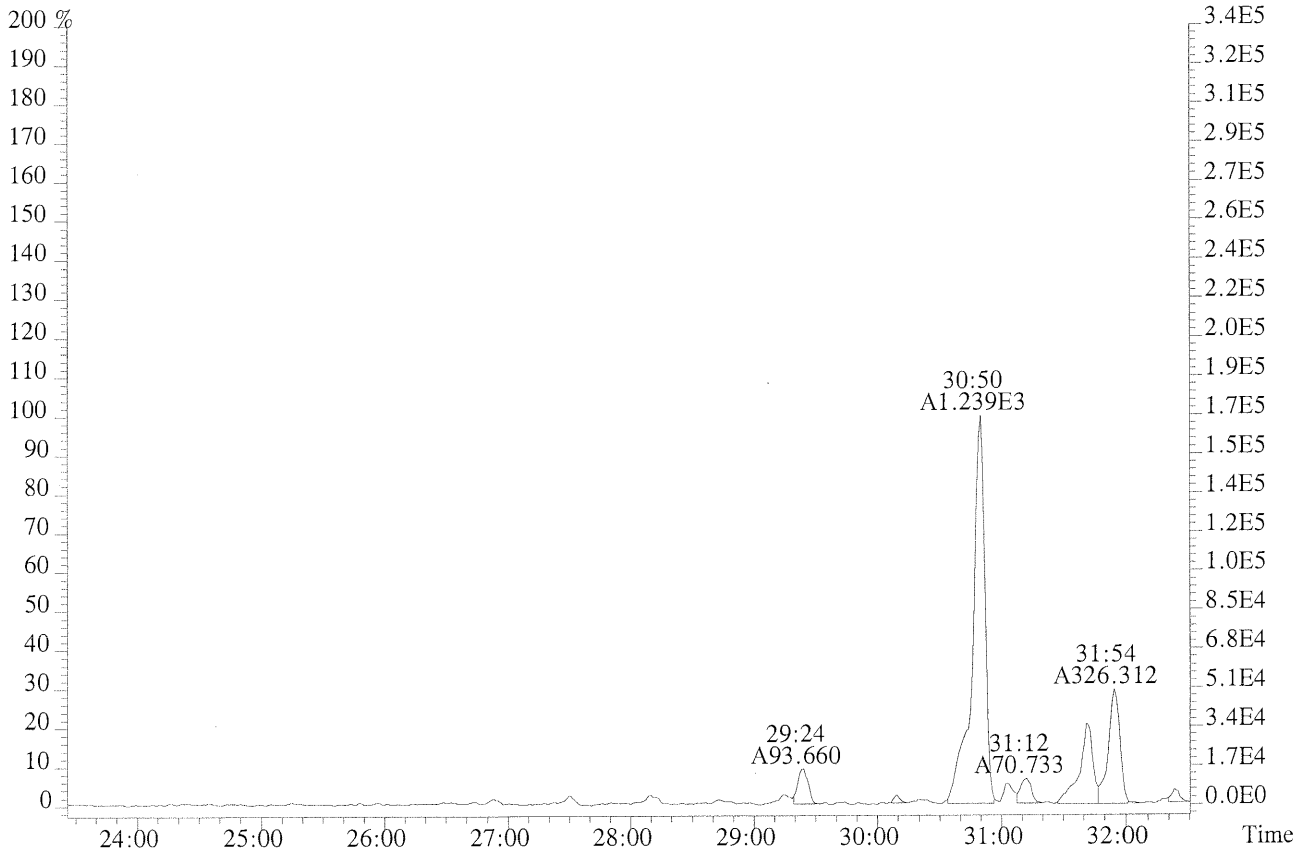
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)



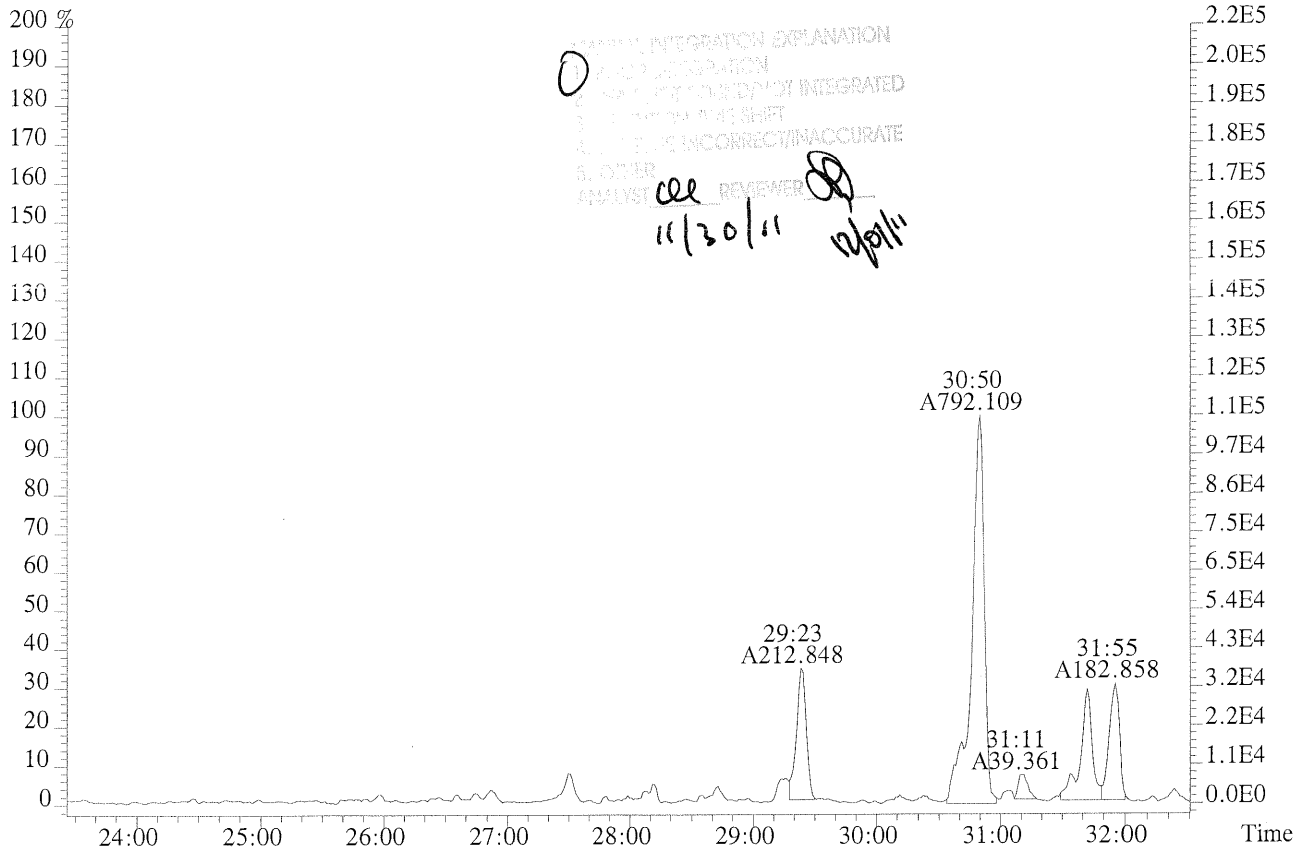
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



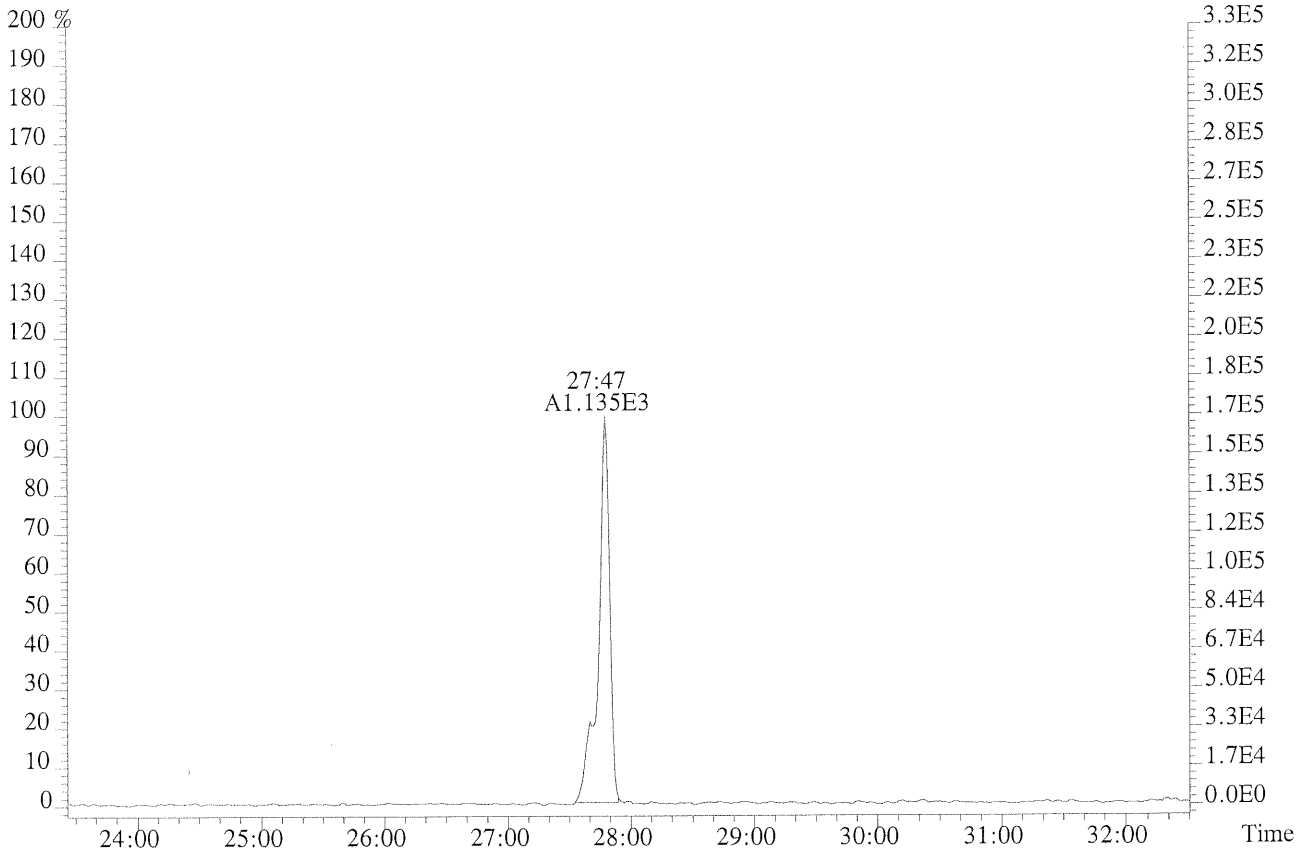
File:U142193 #1-580 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1032.0,1.00%,F,T)



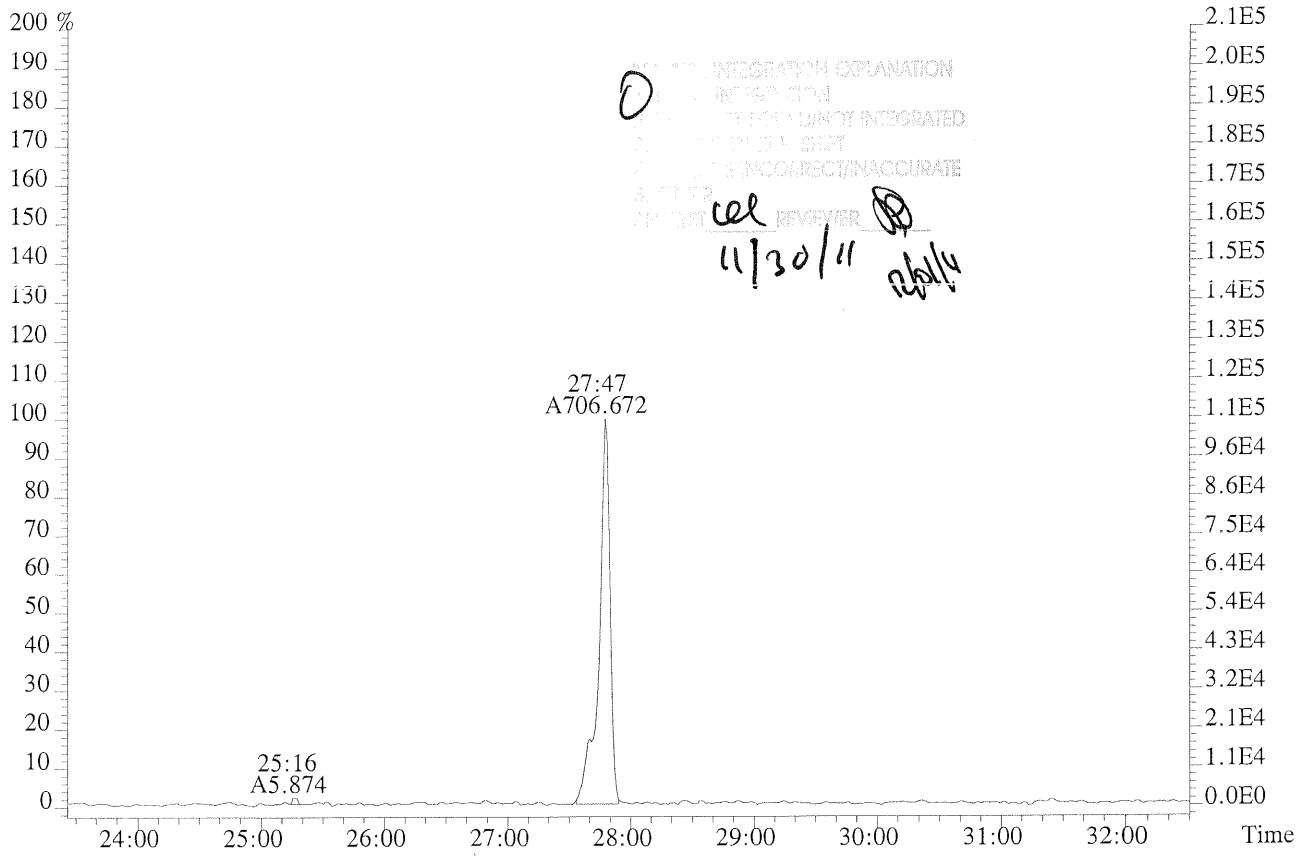
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)



File:U142193 #1-580 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



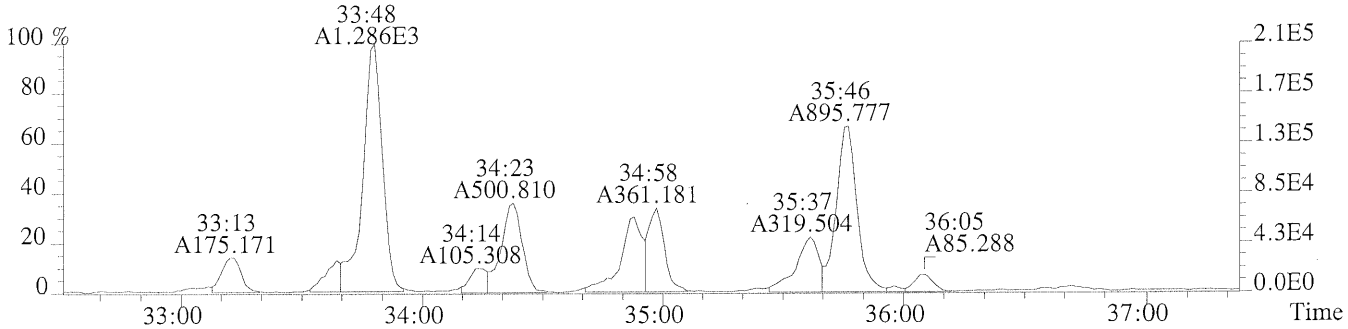
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)



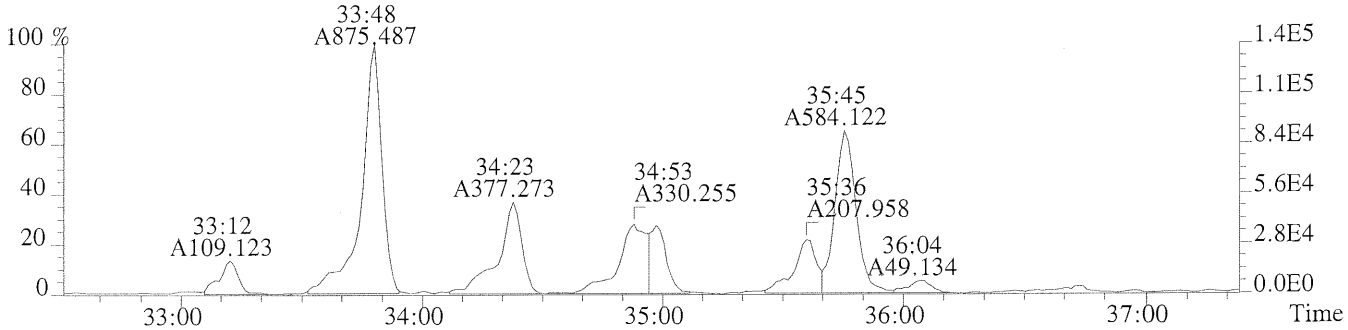
INTEGRATION EXPLANATION
INCORRECT/NOT INTEGRATED
INCORRECT/INACCURATE
REVIEWER
11/30/11

File:U142193 #1-312 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs

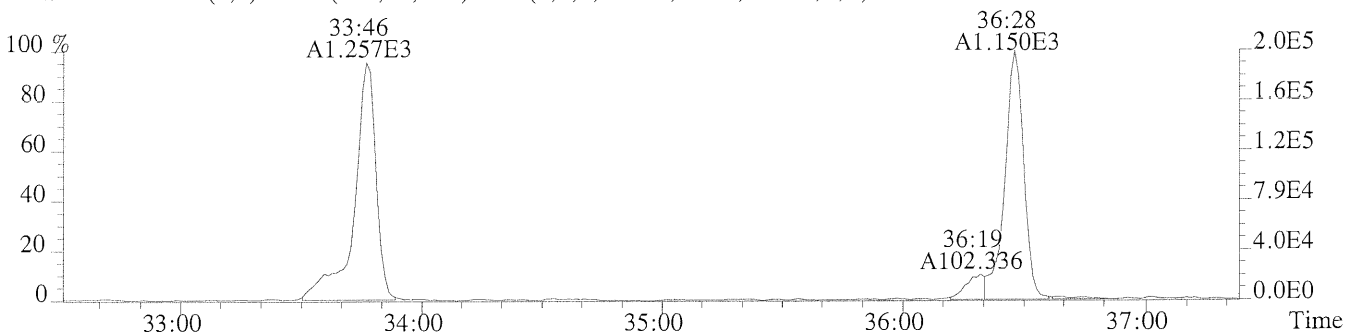
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2124.0,1.00%,F,T)



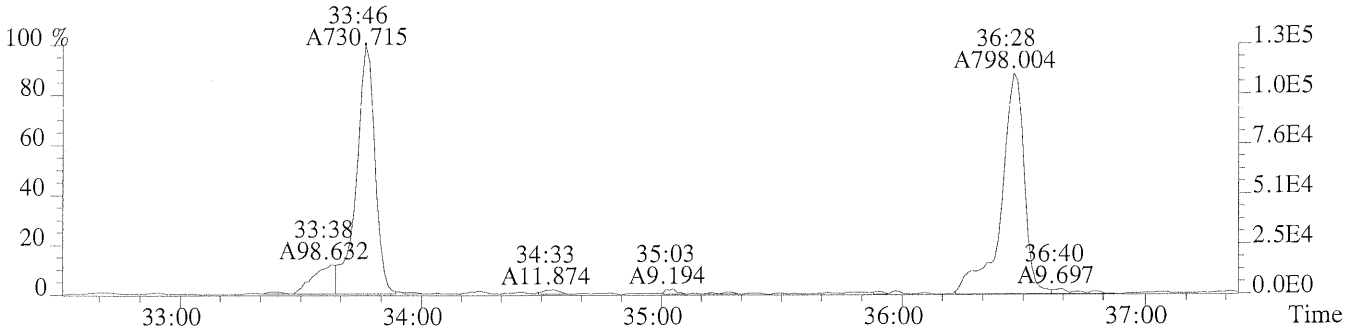
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



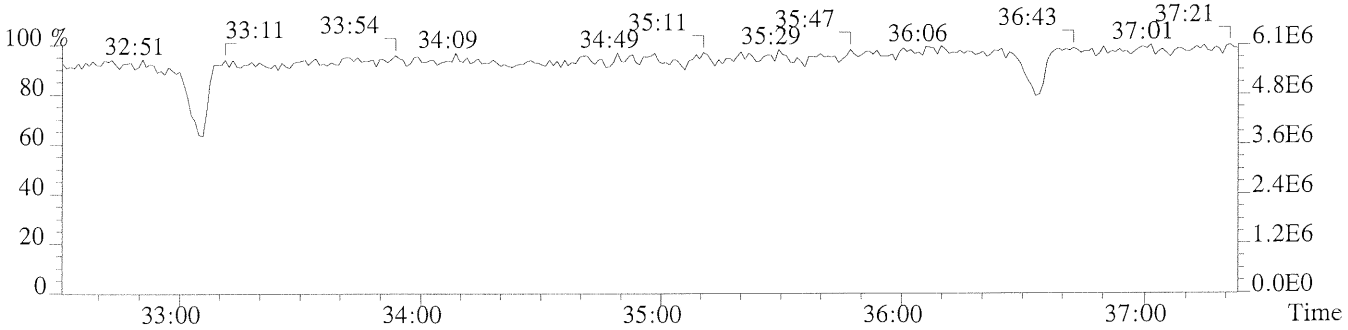
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,948.0,1.00%,F,T)



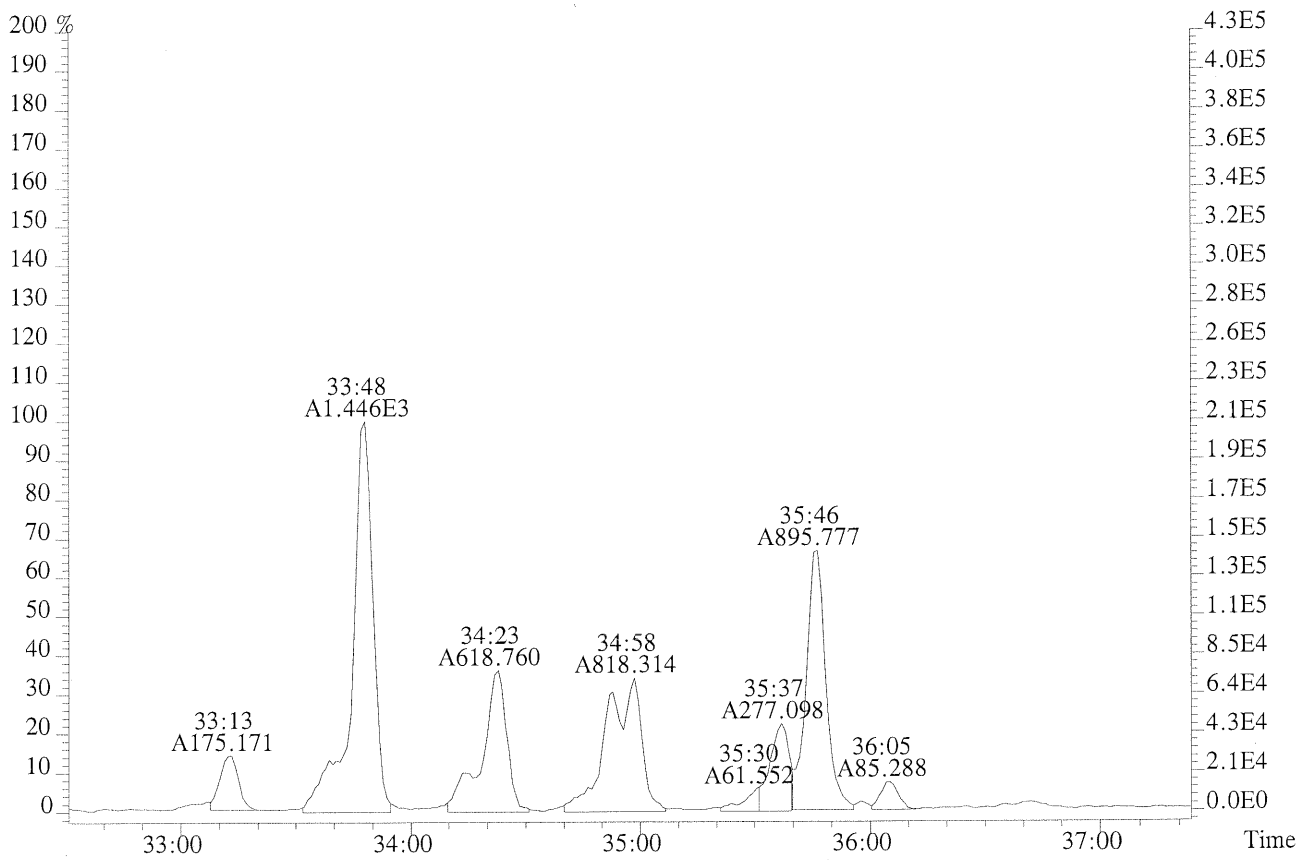
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,T)



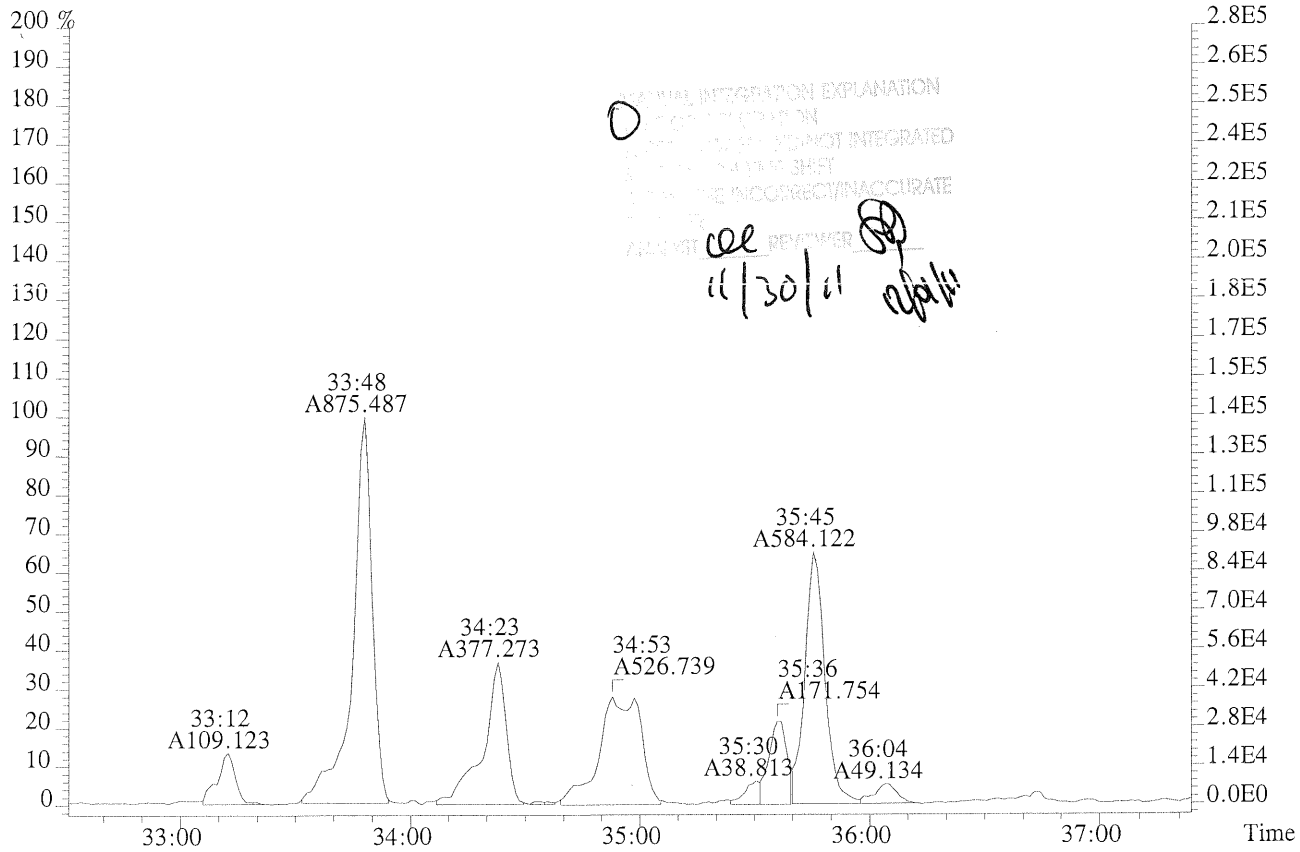
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



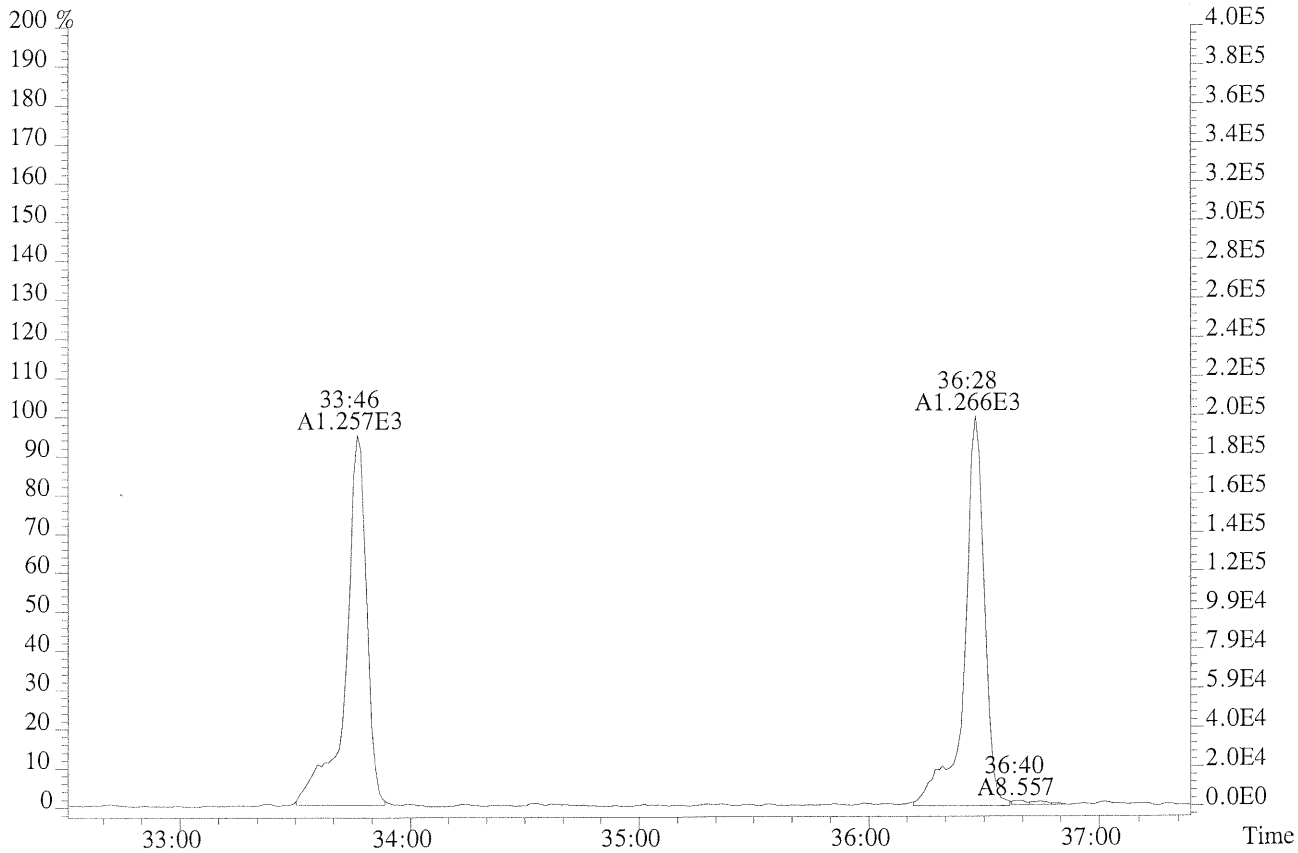
File:U142193 #1-312 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2124.0,1.00%,F,T)



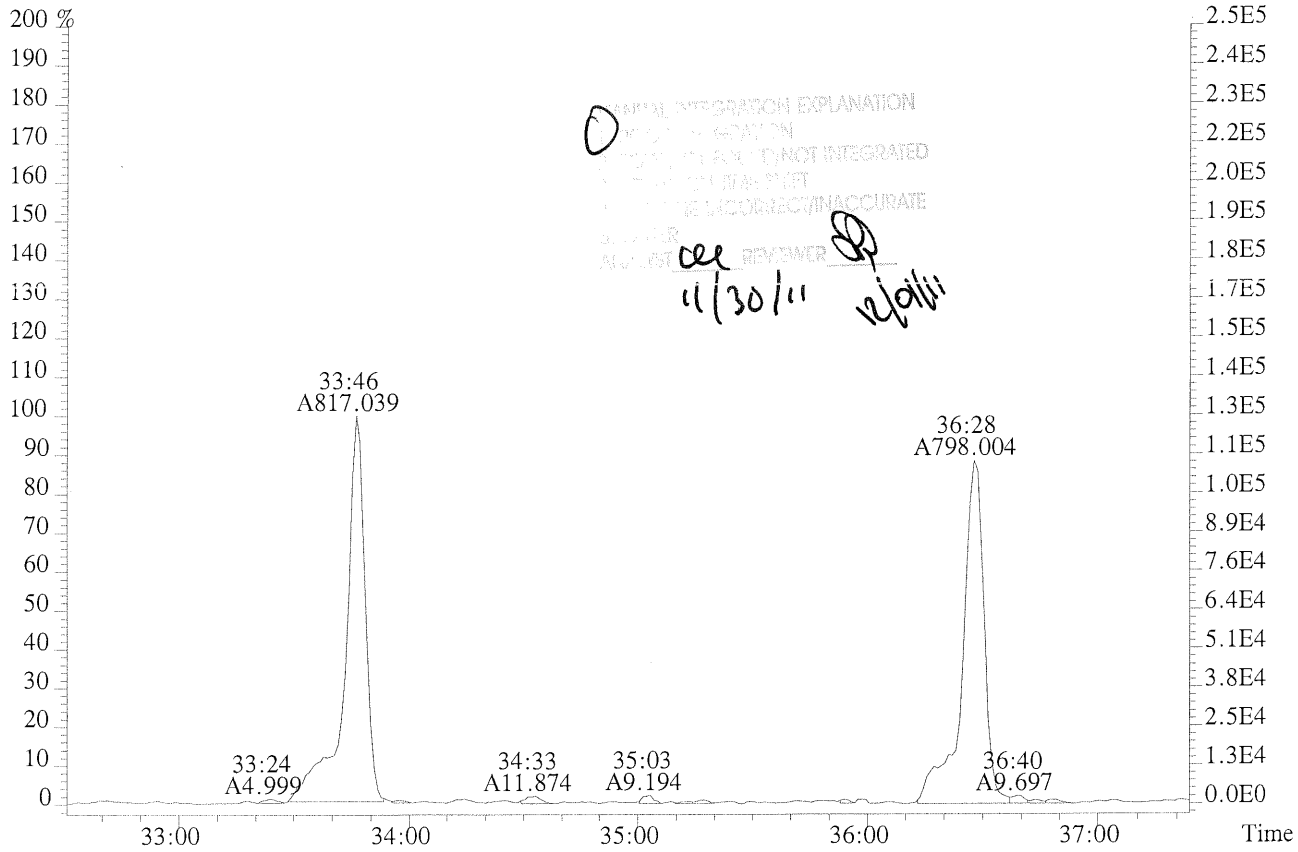
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



File:U142193 #1-312 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,948.0,1.00%,F,T)



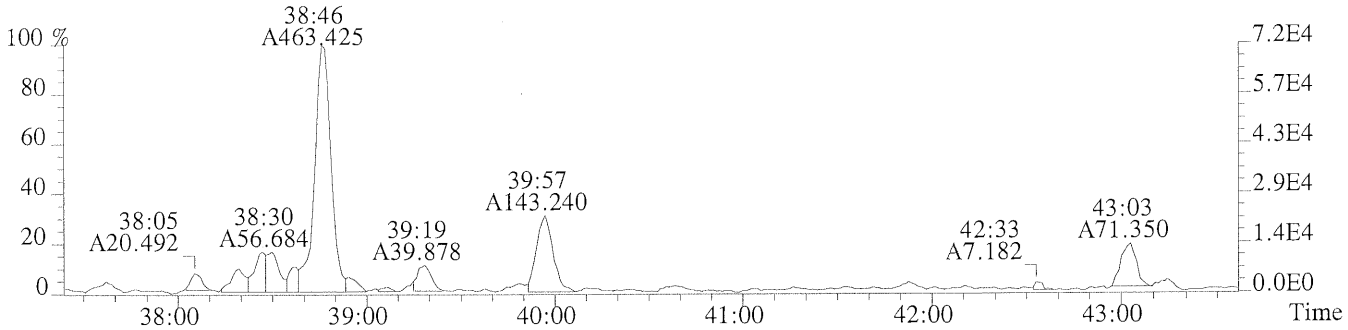
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,T)



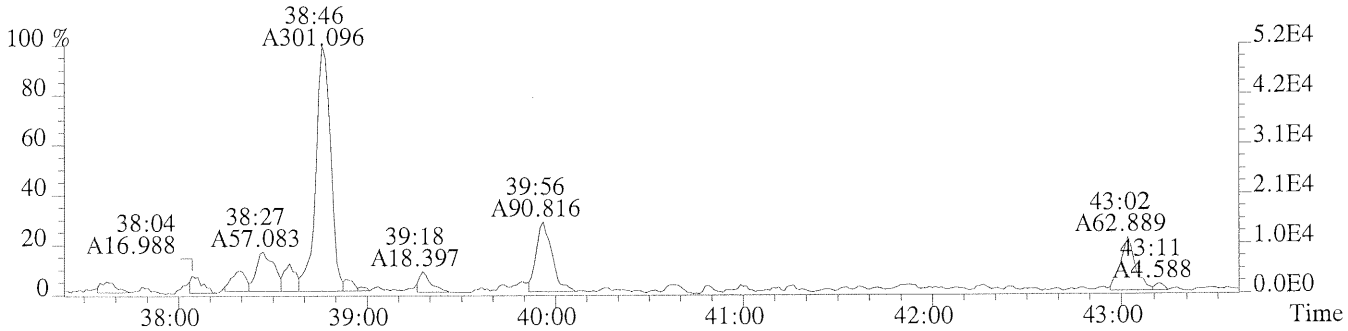
MANUAL INTEGRATION EXPLANATION
NOT INTEGRATED
INCORRECT/INACCURATE
REVIEWER
11/30/11 12/01/11

File:U142193 #1-398 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs

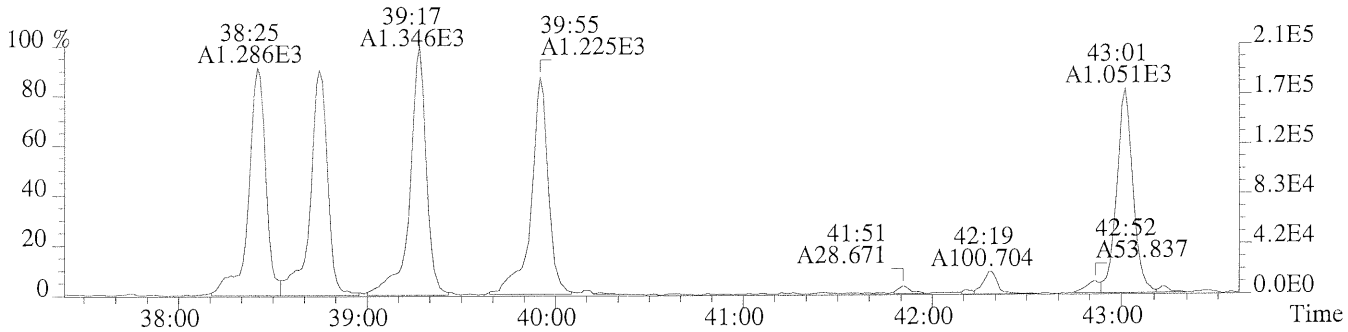
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1436.0,1.00%,F,T)



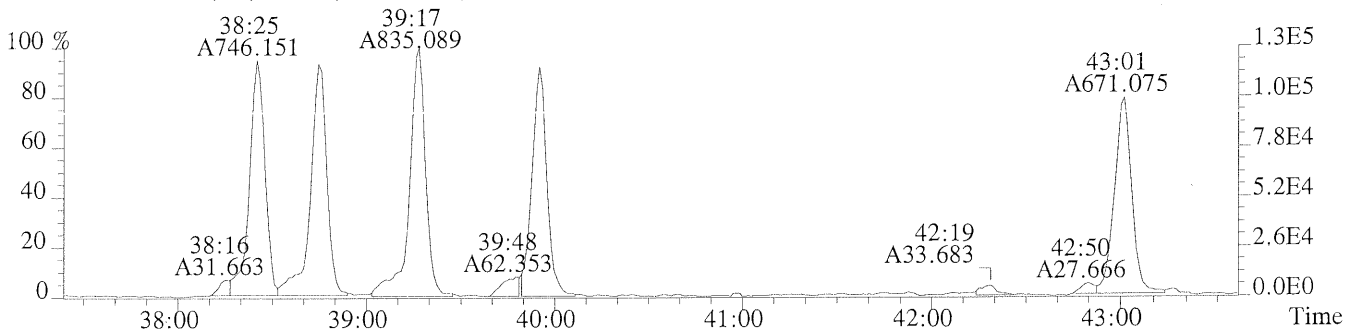
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)



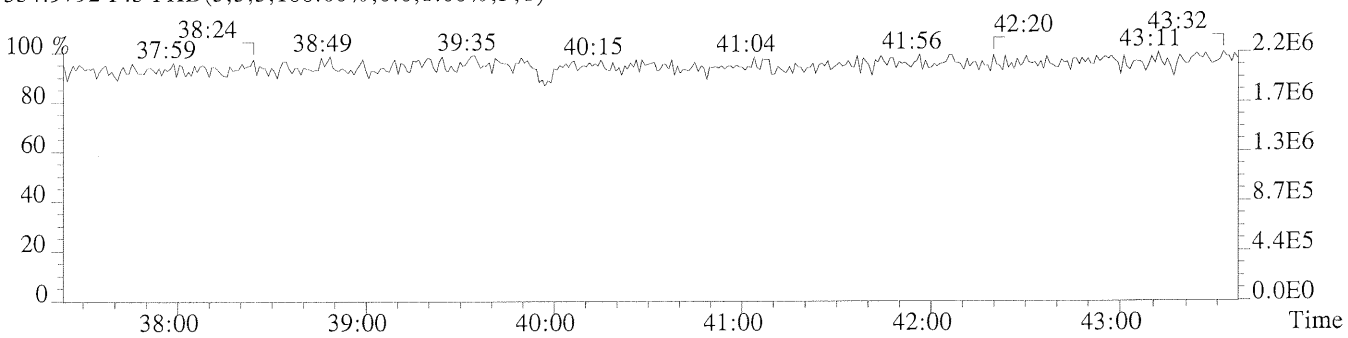
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)



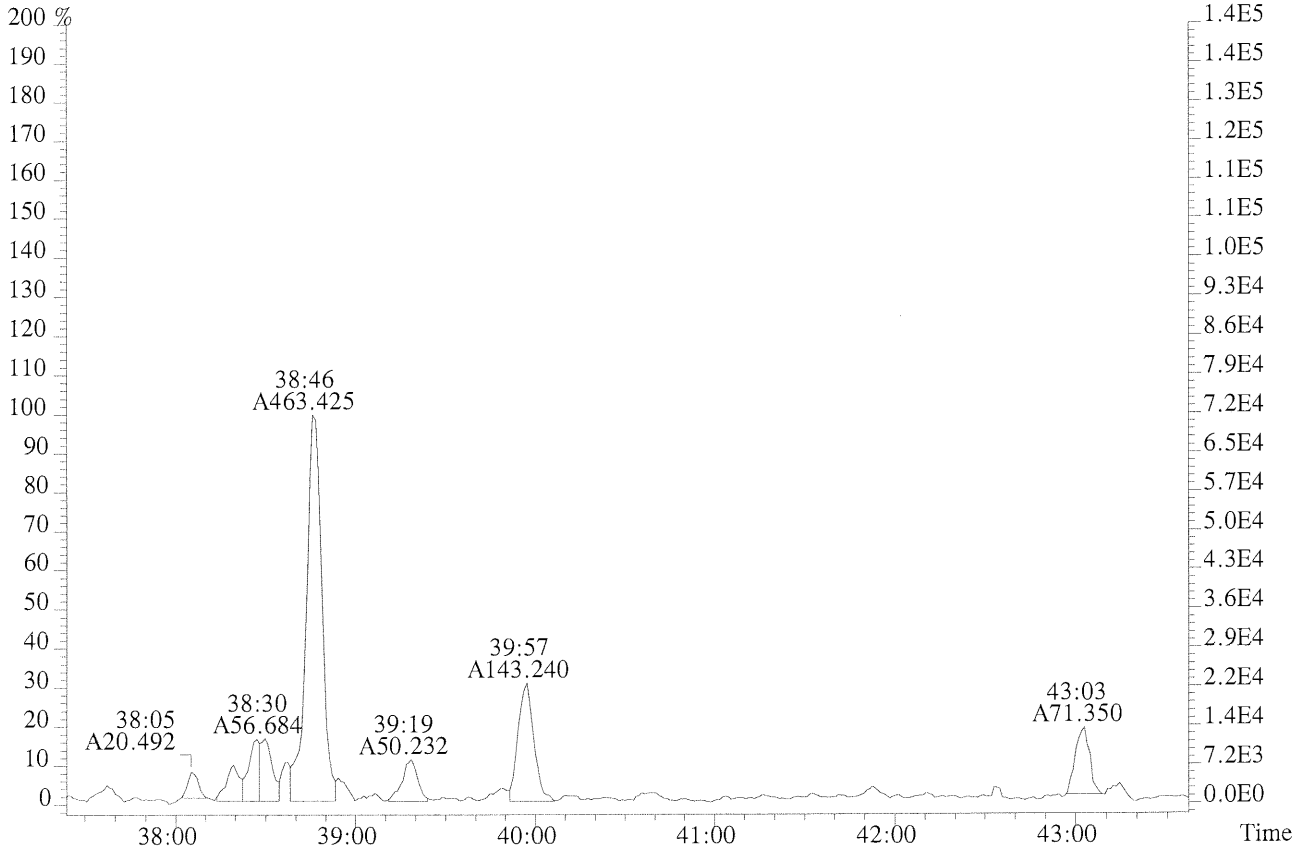
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)



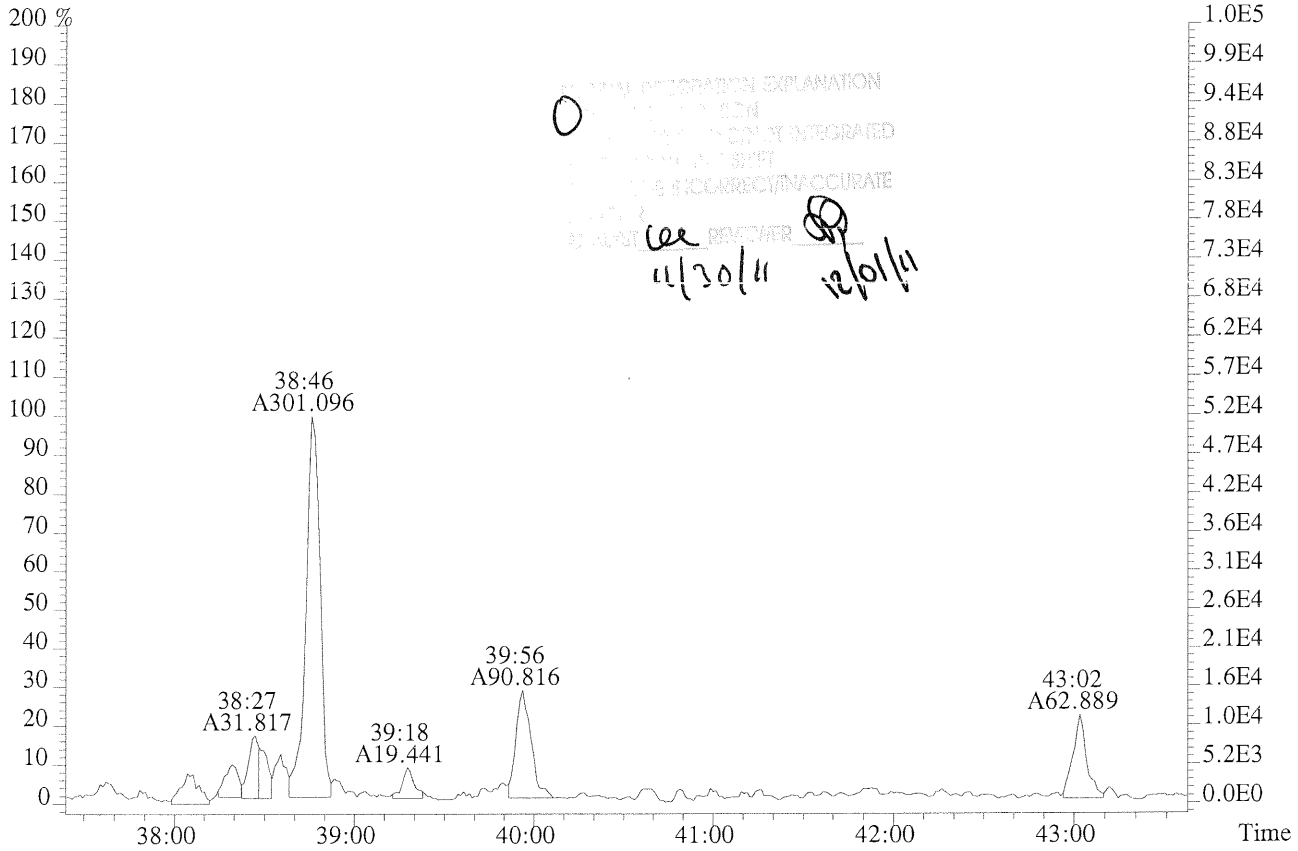
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



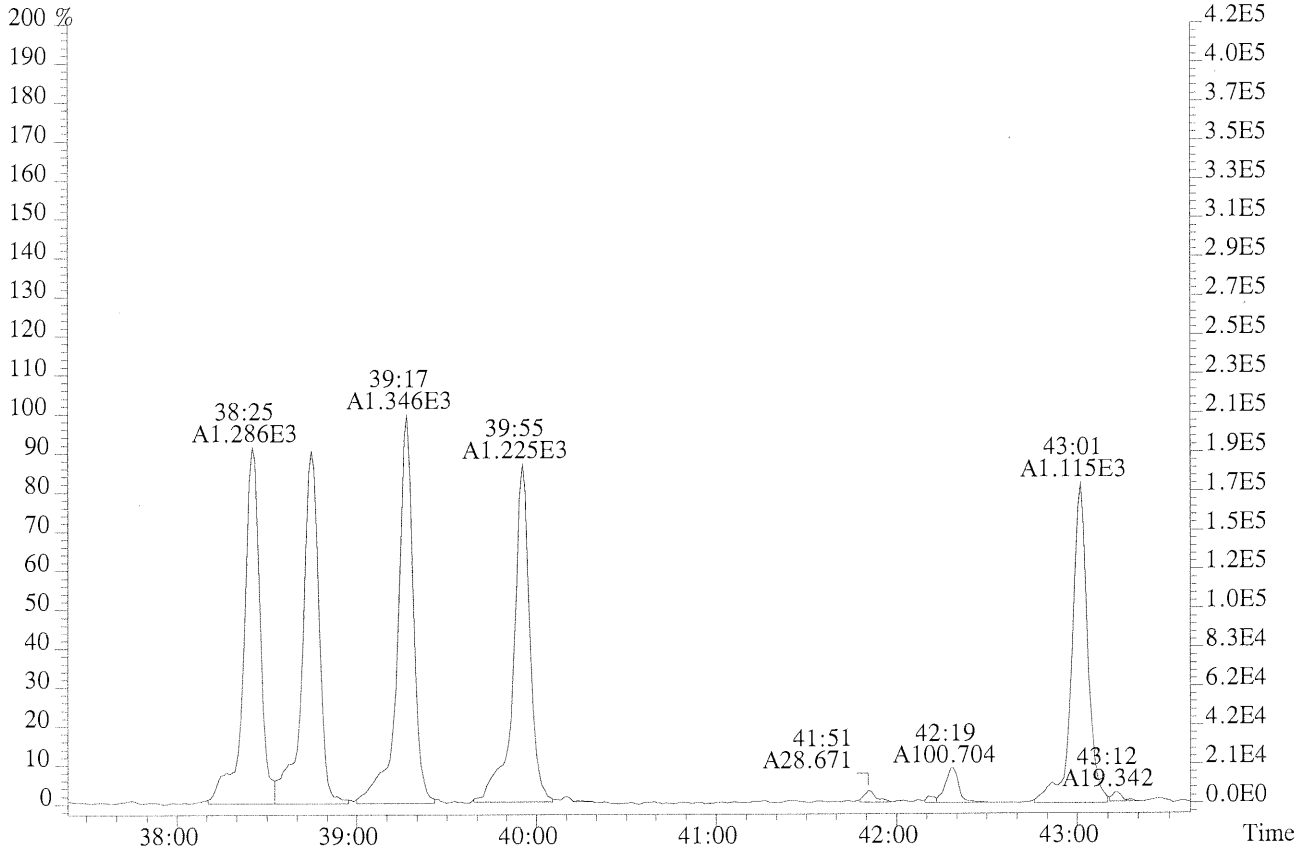
File:U142193 #1-398 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1436.0,1.00%,F,T)



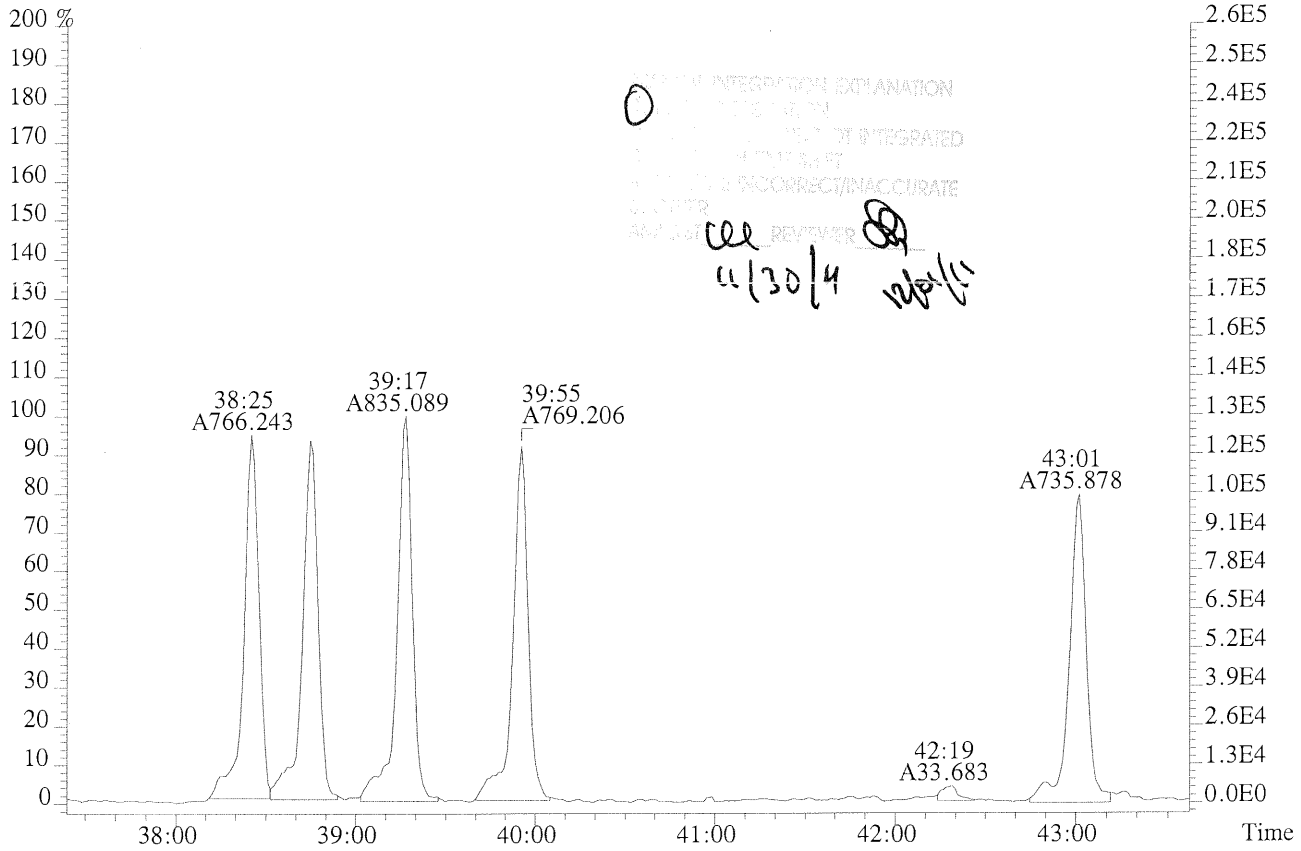
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)



File:U142193 #1-398 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)

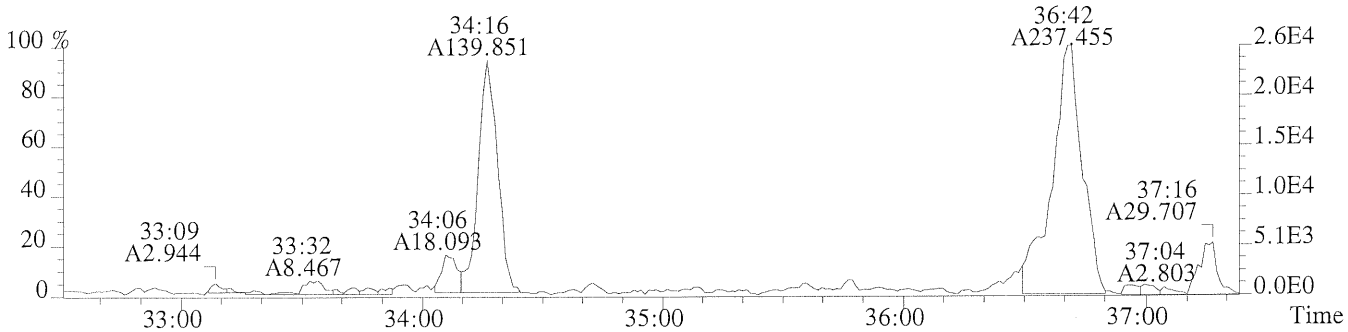


339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)

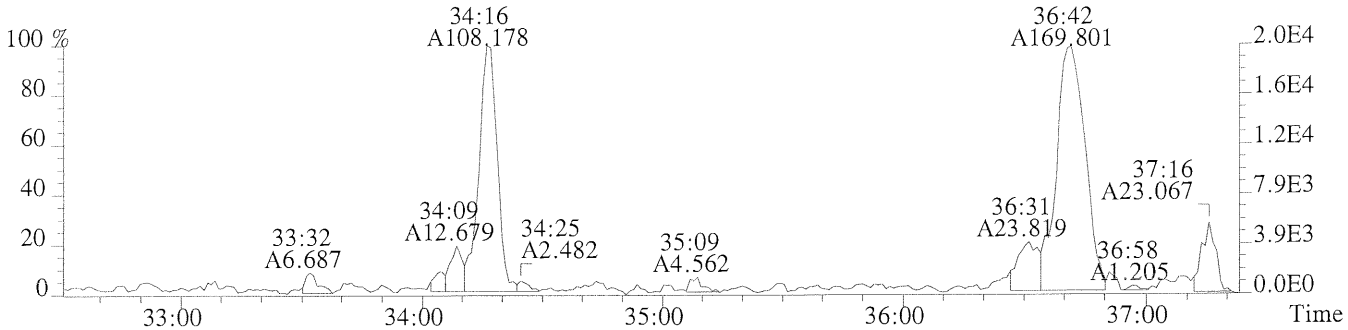


INTEGRATION EXPLANATION
INTEGRATED
INCORRECT/INACCURATE
REVIEWER
11/30/11

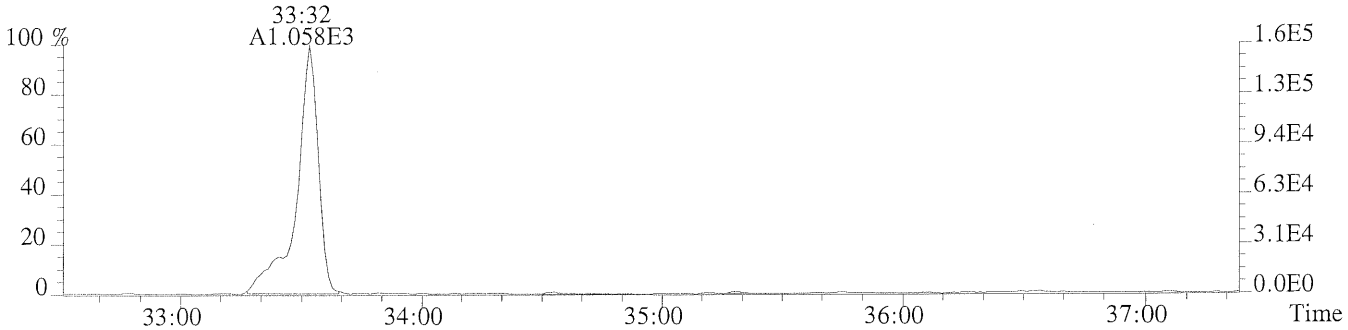
File:U142193 #1-312 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



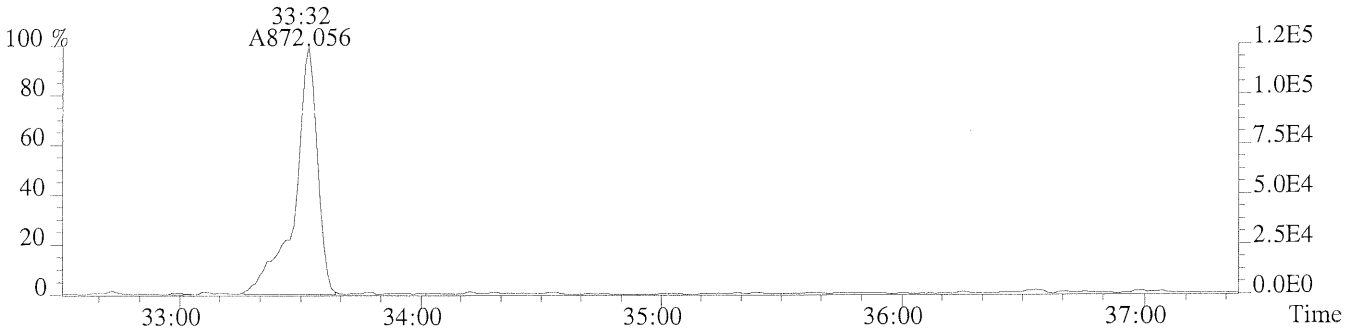
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,652.0,1.00%,F,T)



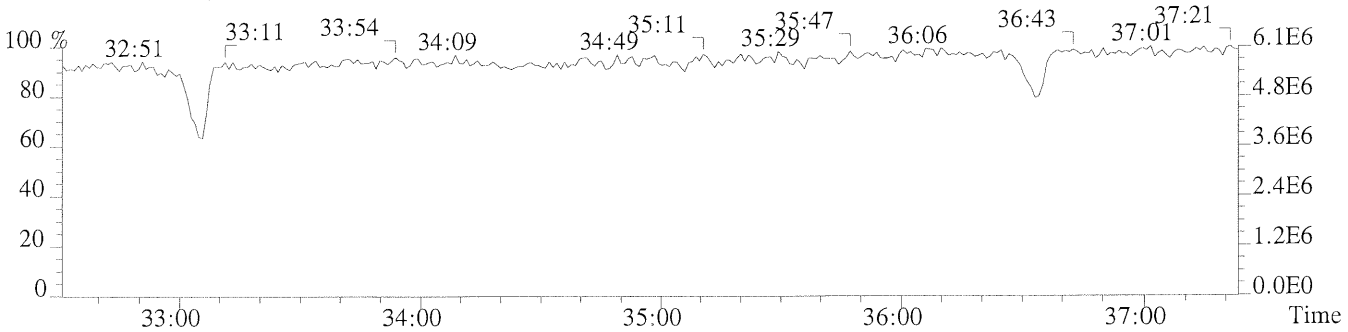
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,756.0,1.00%,F,T)



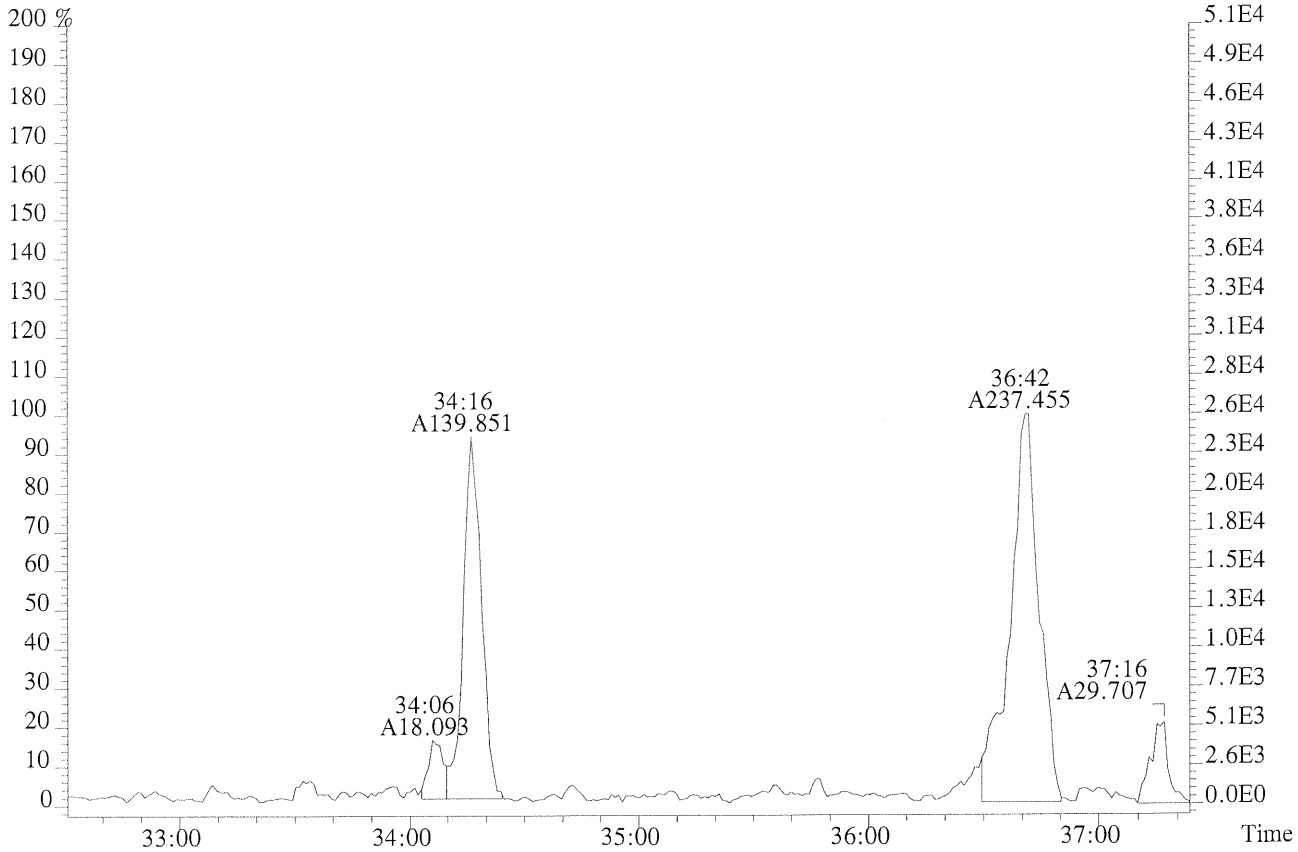
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)



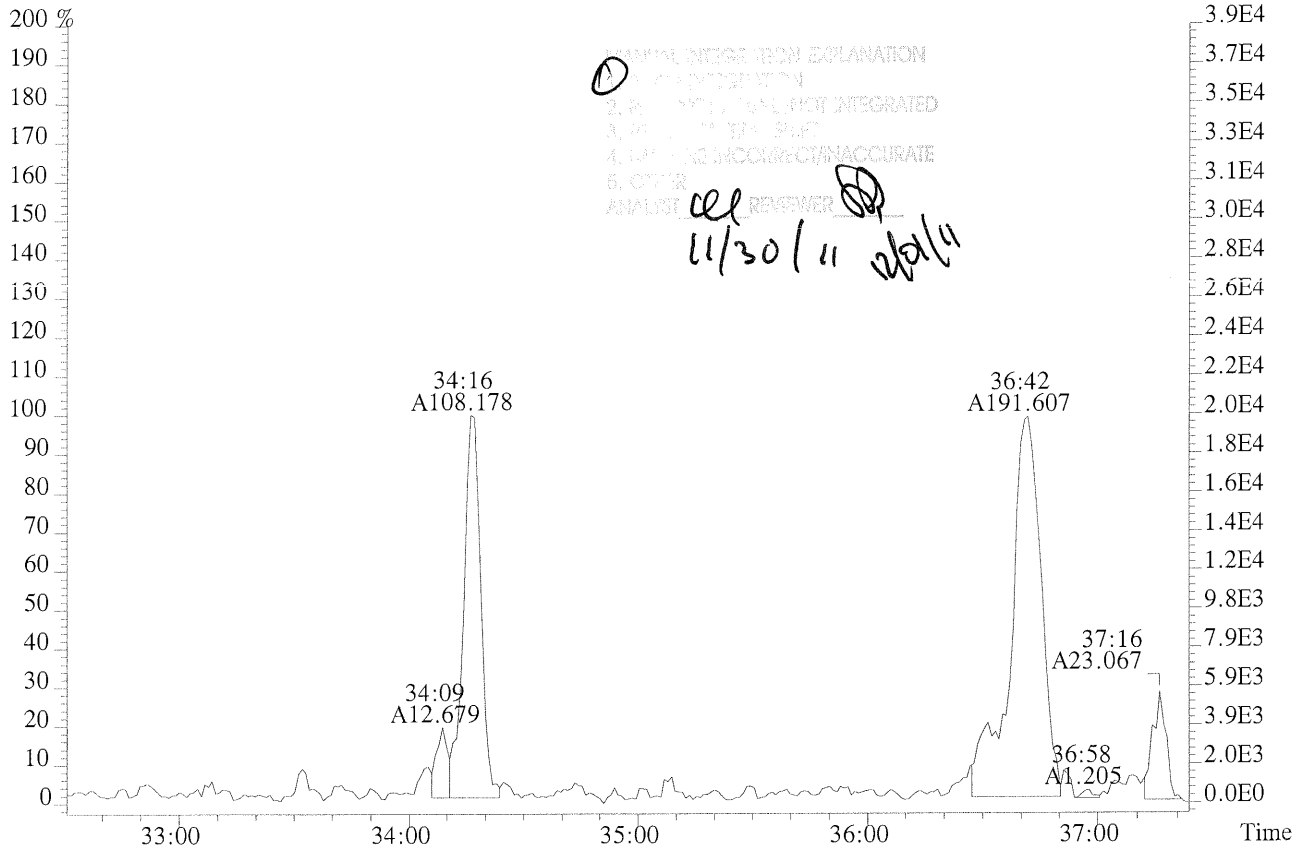
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142193 #1-312 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)

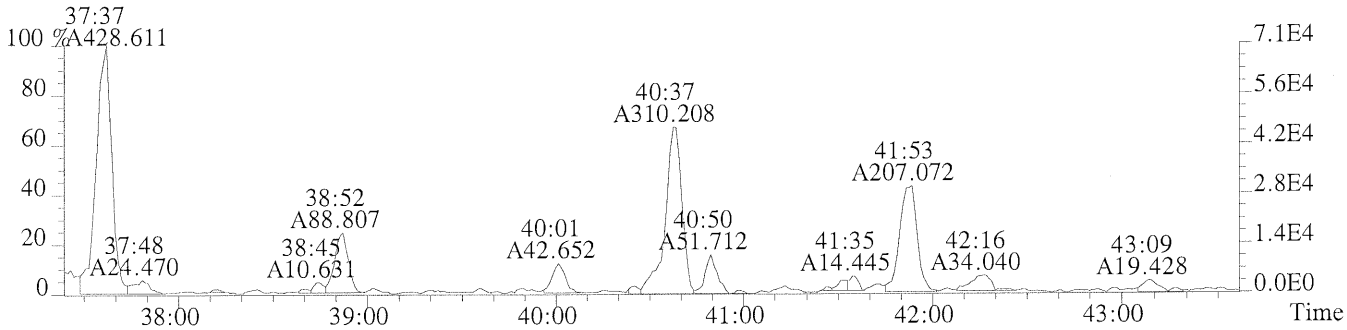


361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,652.0,1.00%,F,T)

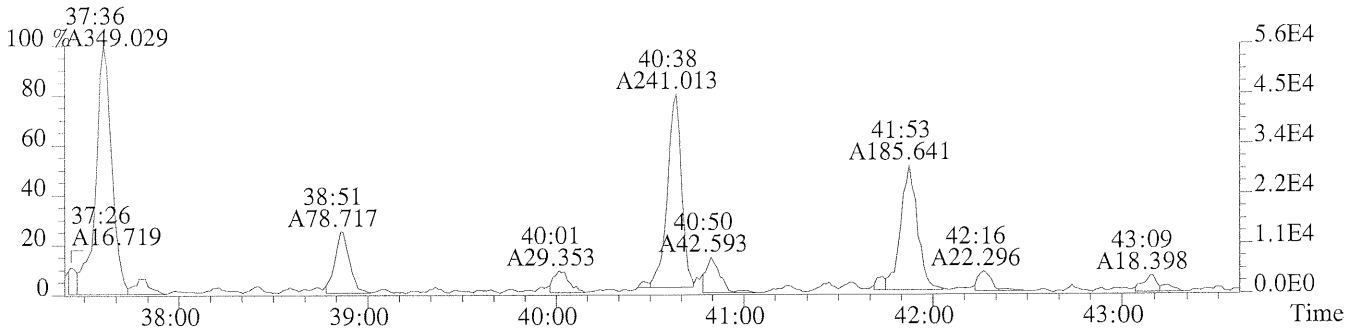


File:U142193 #1-398 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs

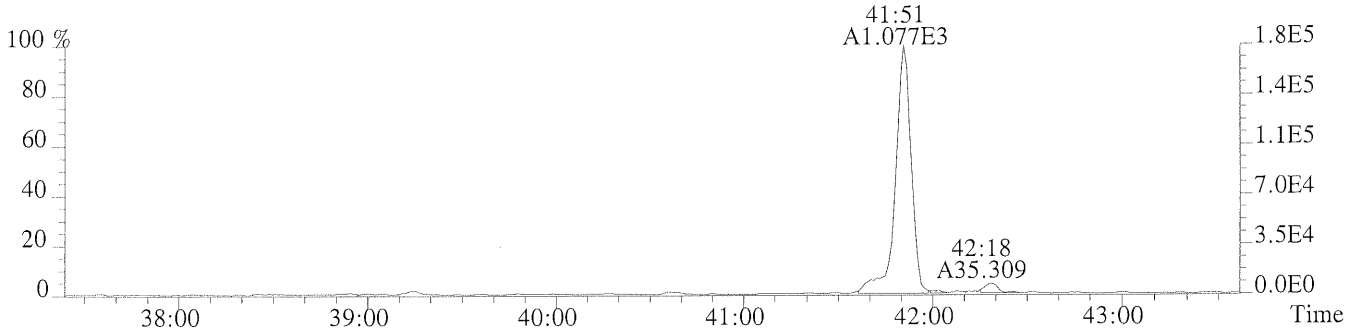
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



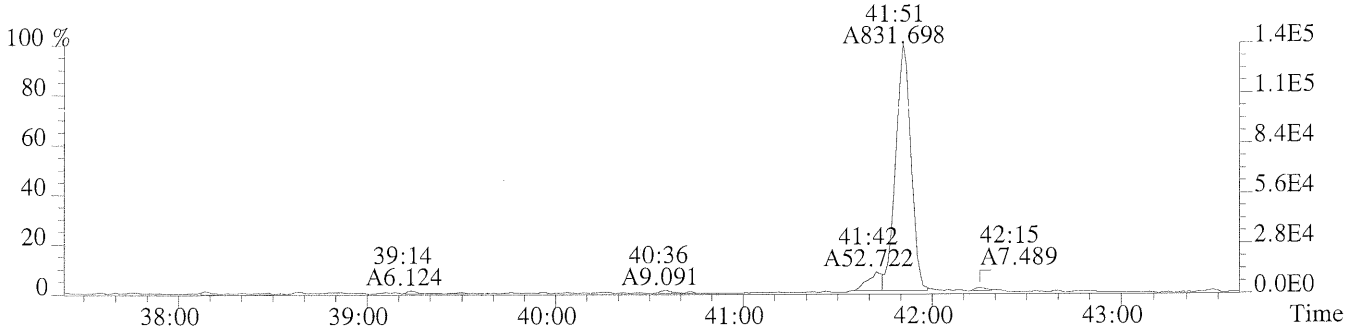
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1096.0,1.00%,F,T)



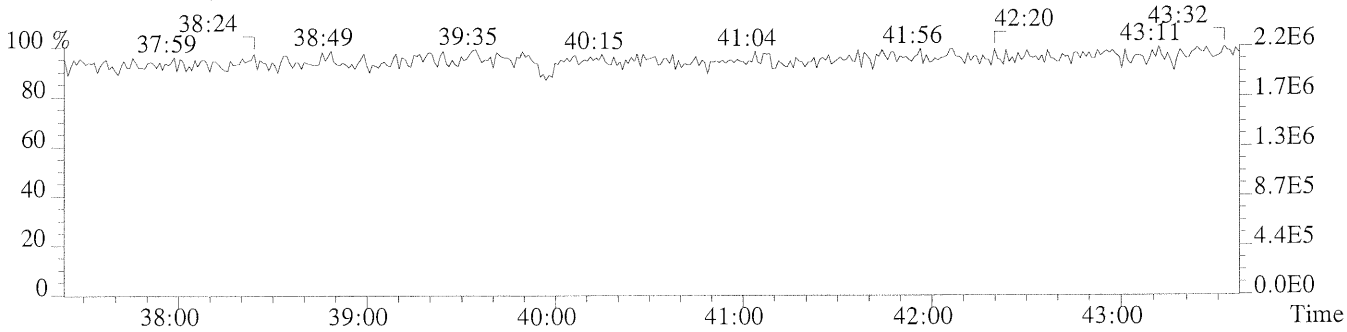
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1092.0,1.00%,F,T)



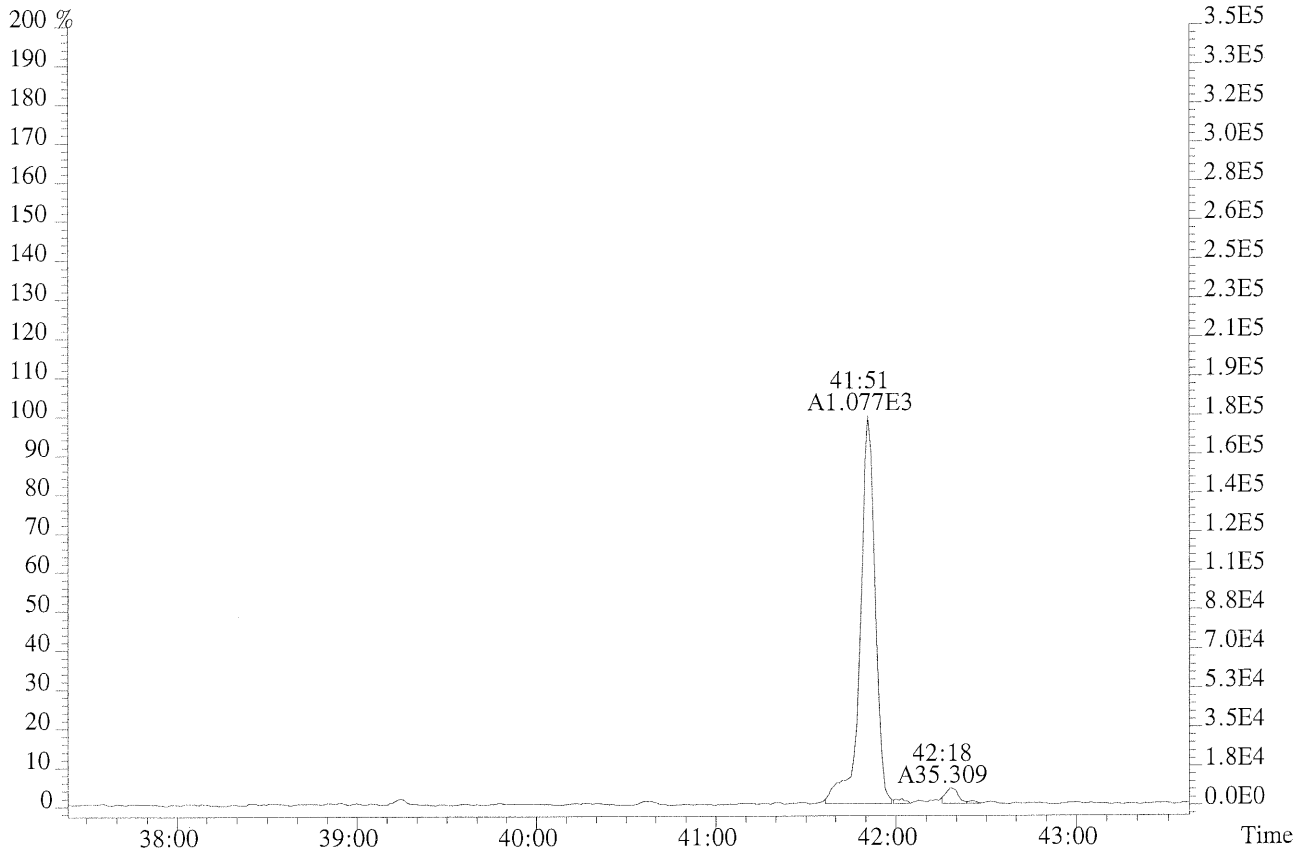
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)



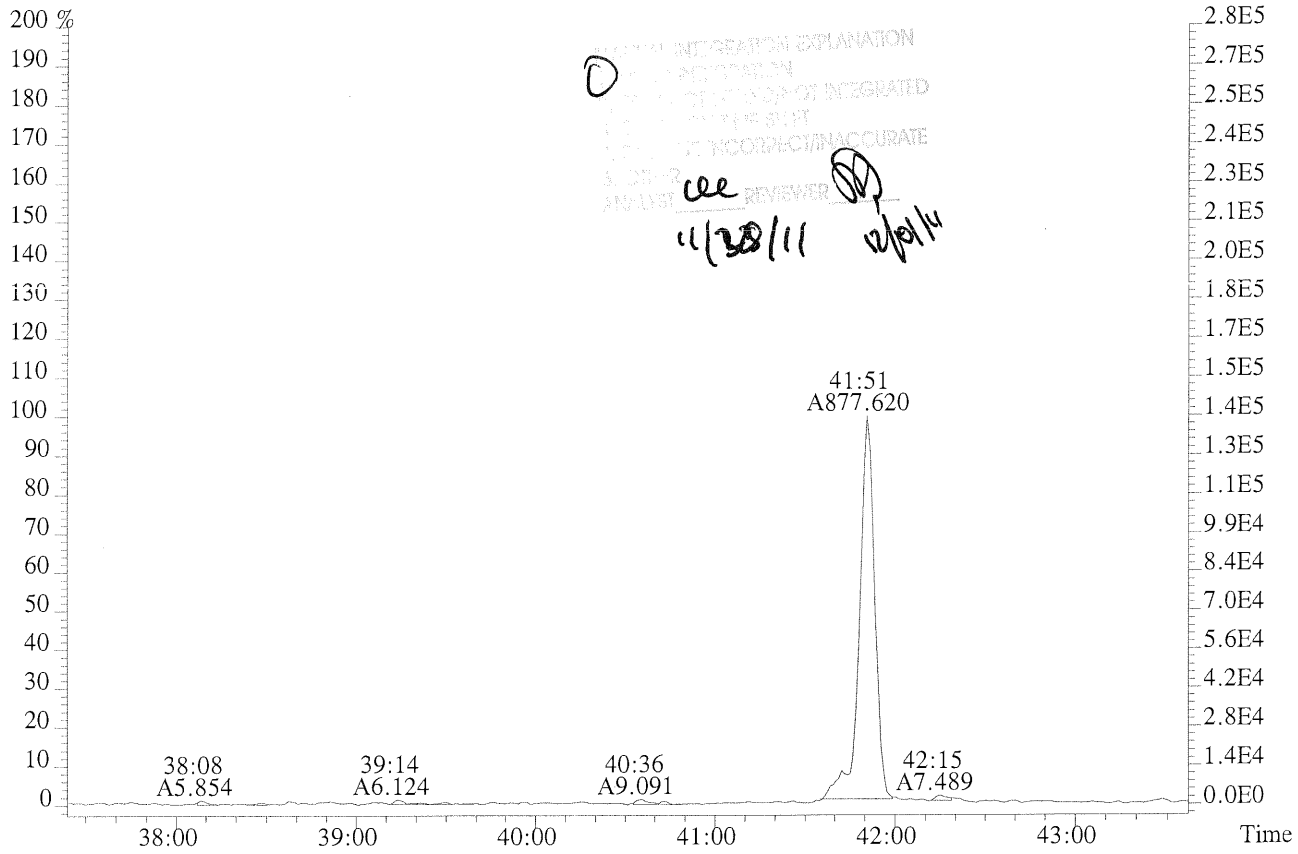
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142193 #1-398 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1092.0,1.00%,F,T)

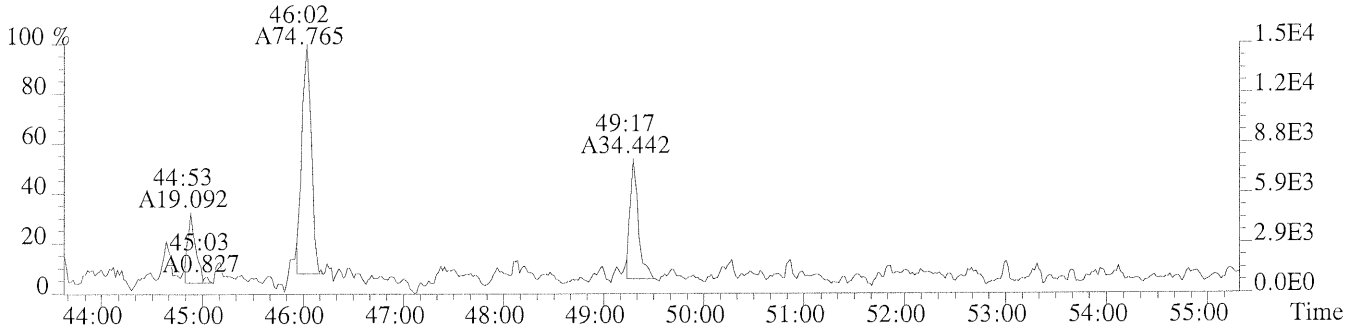


373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)

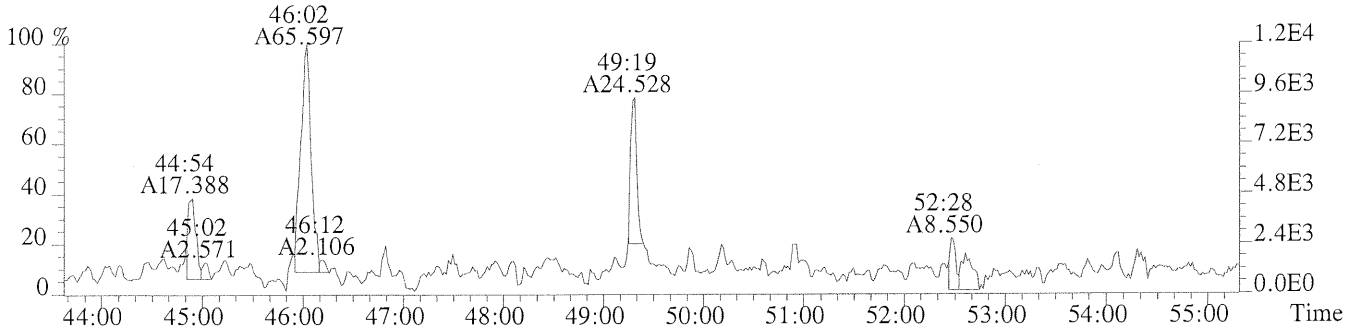


File:U142193 #1-579 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs

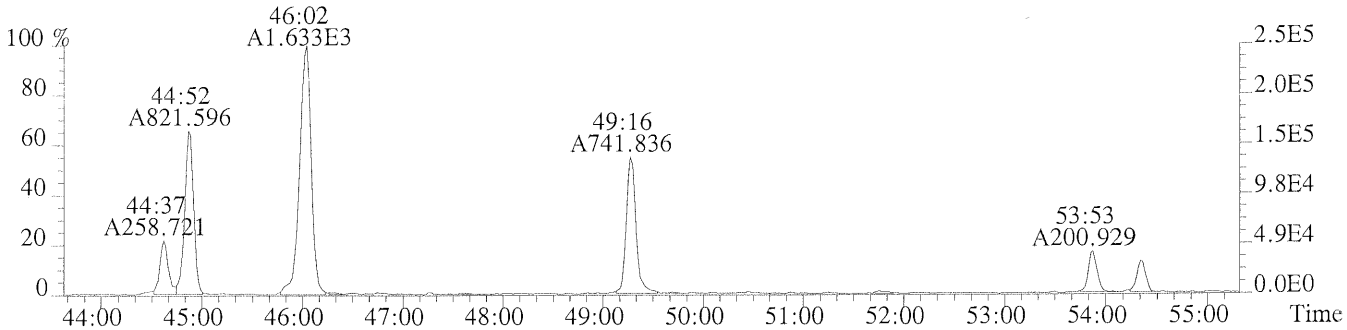
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1328.0,1.00%,F,T)



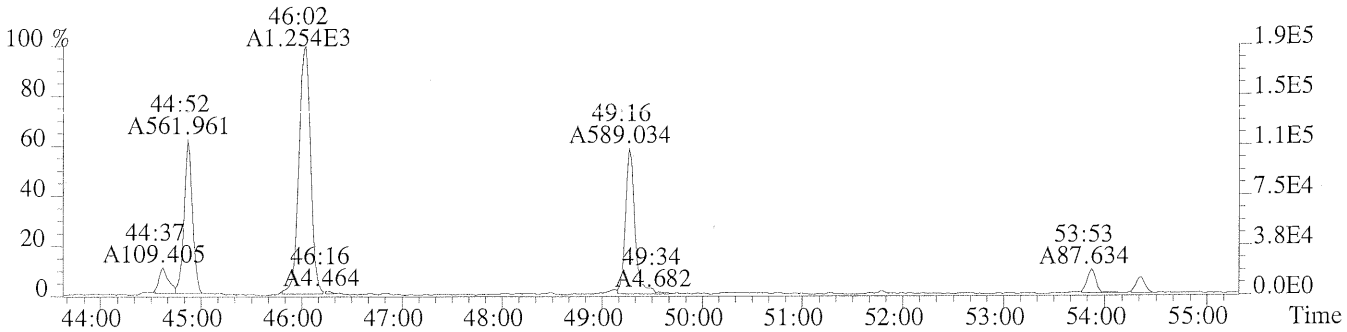
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)



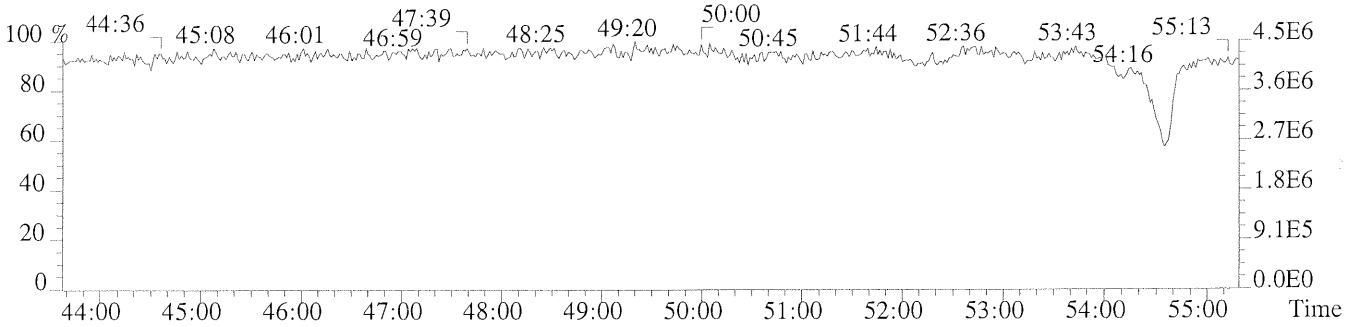
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1344.0,1.00%,F,T)



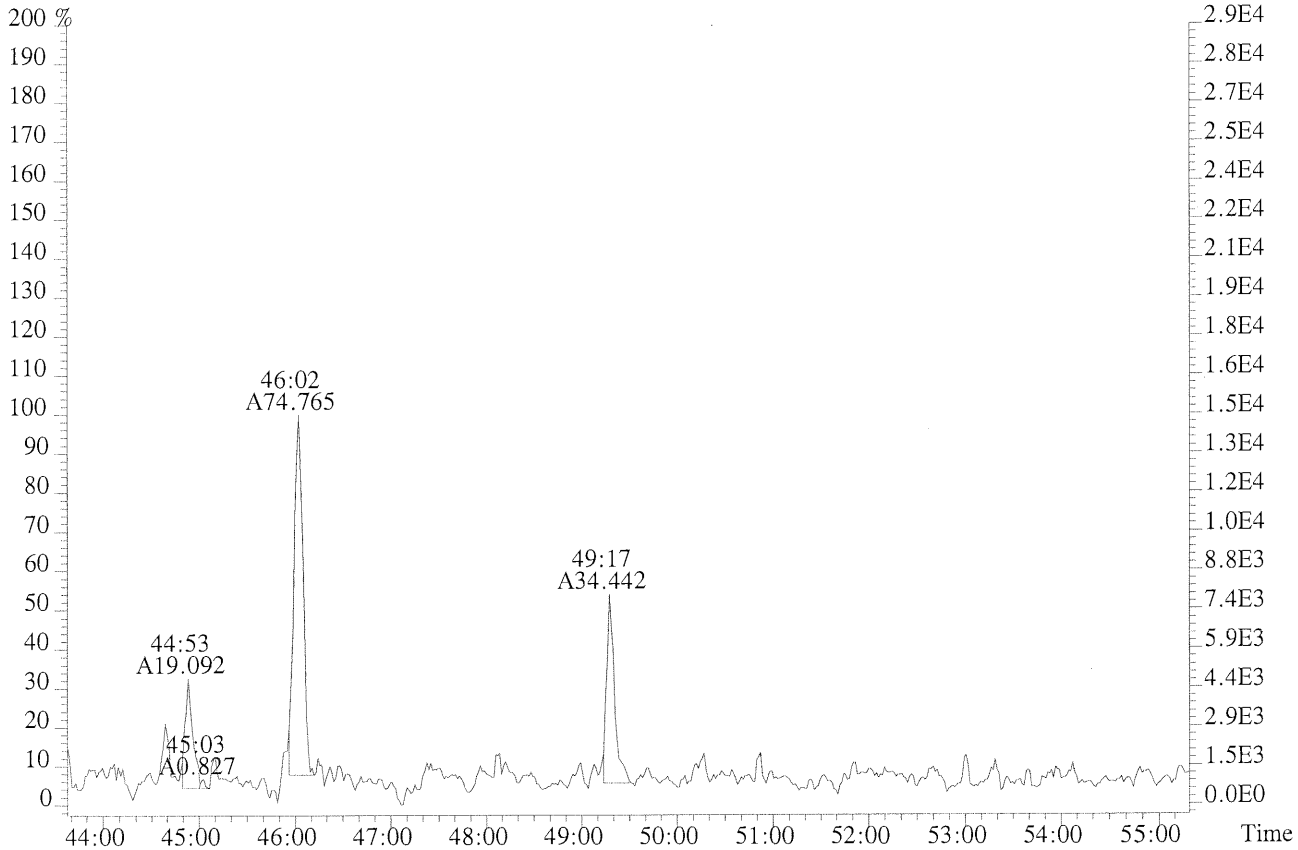
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1992.0,1.00%,F,T)



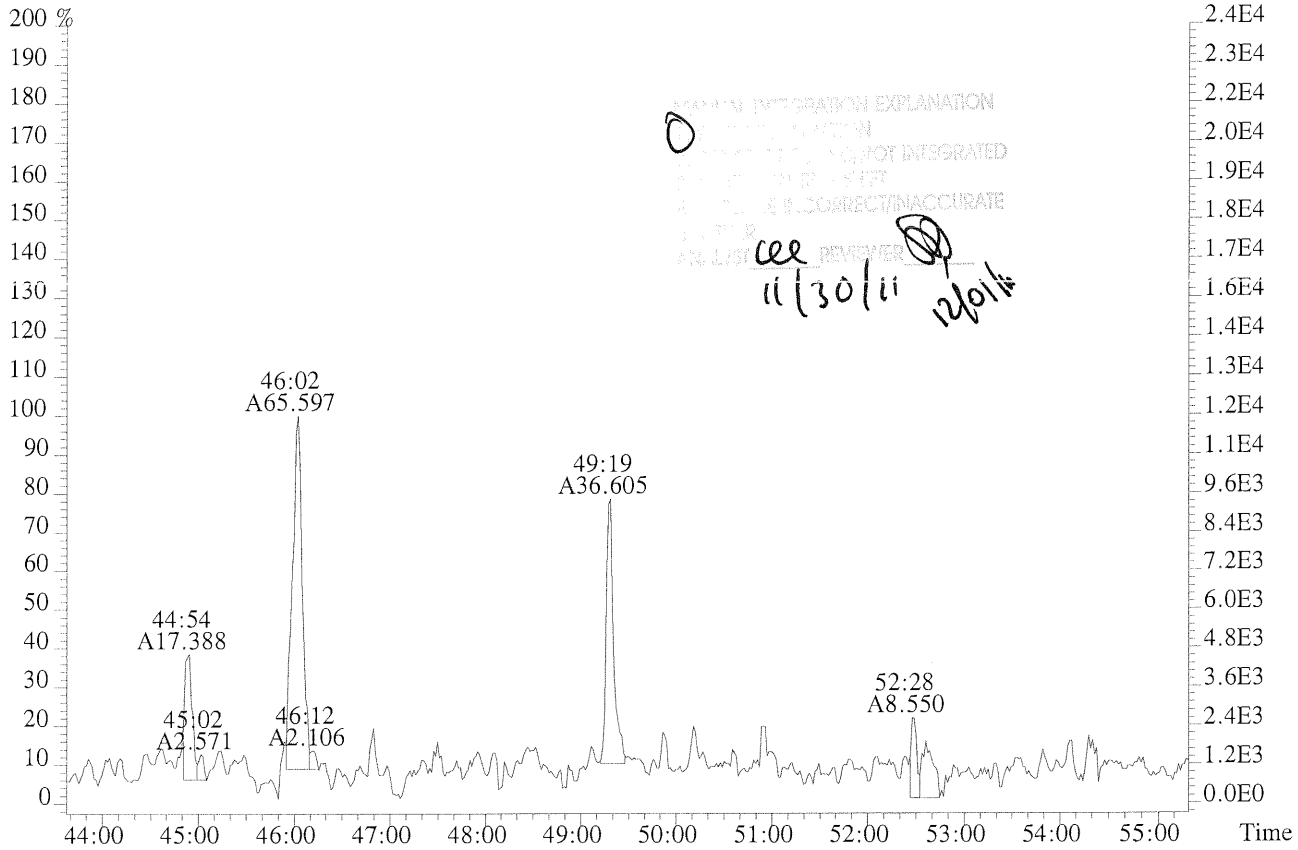
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142193 #1-579 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1328.0,1.00%,F,T)

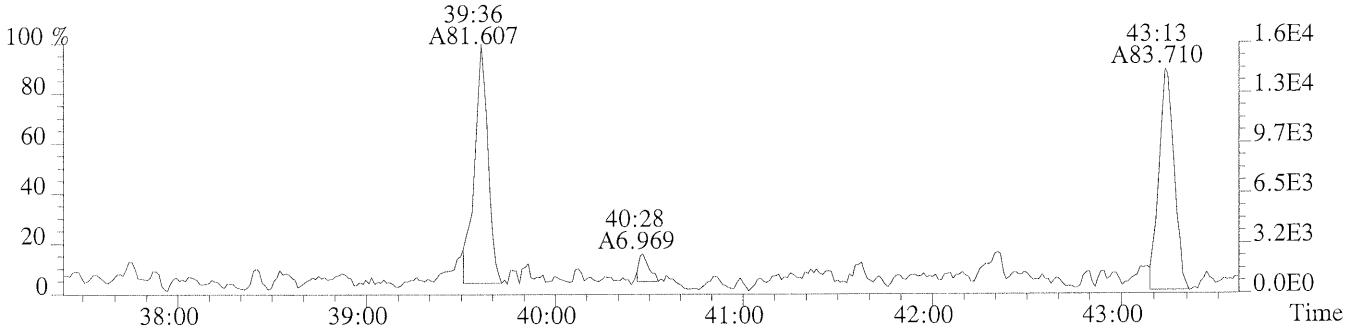


361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)

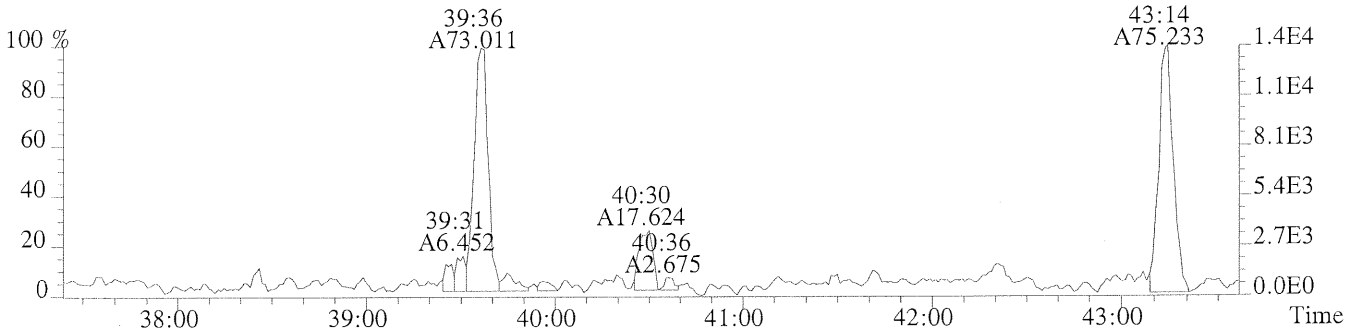


INTEGRATION EXPLANATION
NOT INTEGRATED
CORRECT/INACCURATE
REVIEWER
cee 11/30/11 12/01/11

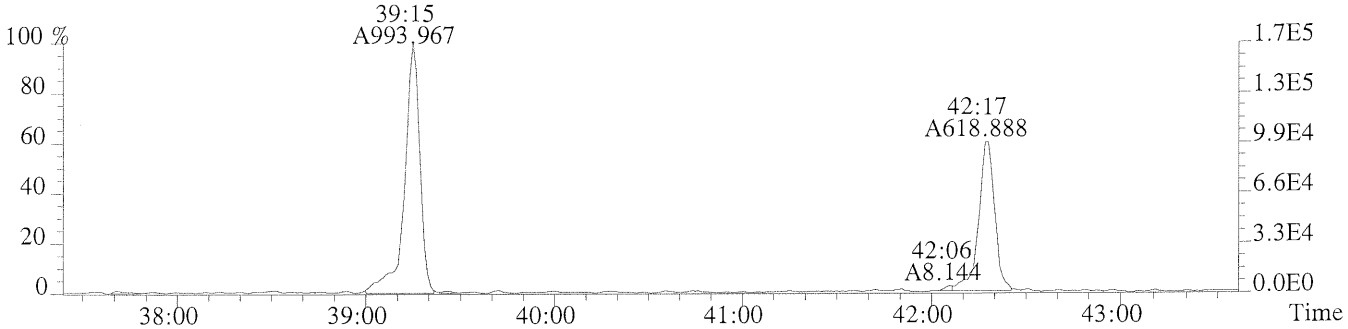
File:U142193 #1-398 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1172.0,1.00%,F,T)



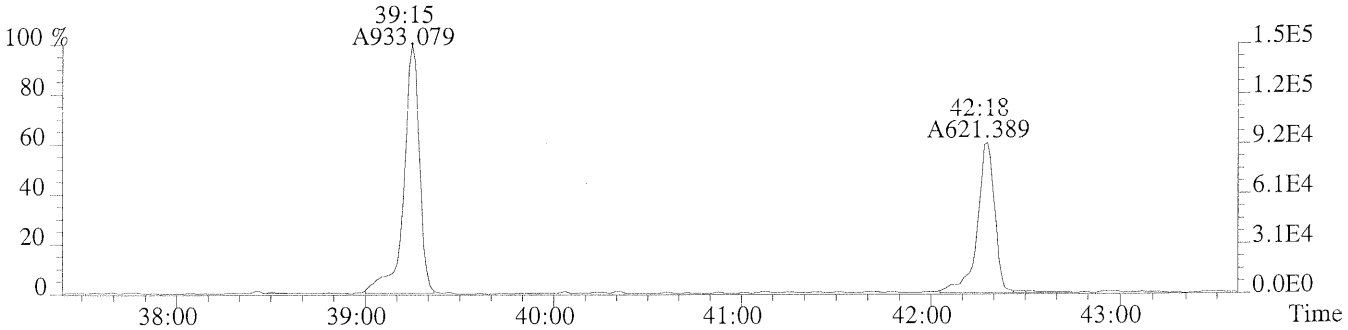
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,856.0,1.00%,F,T)



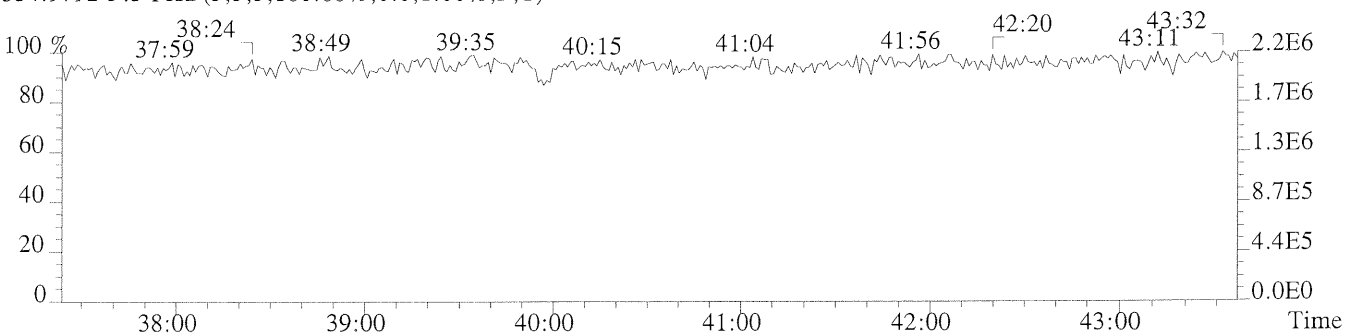
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1256.0,1.00%,F,T)



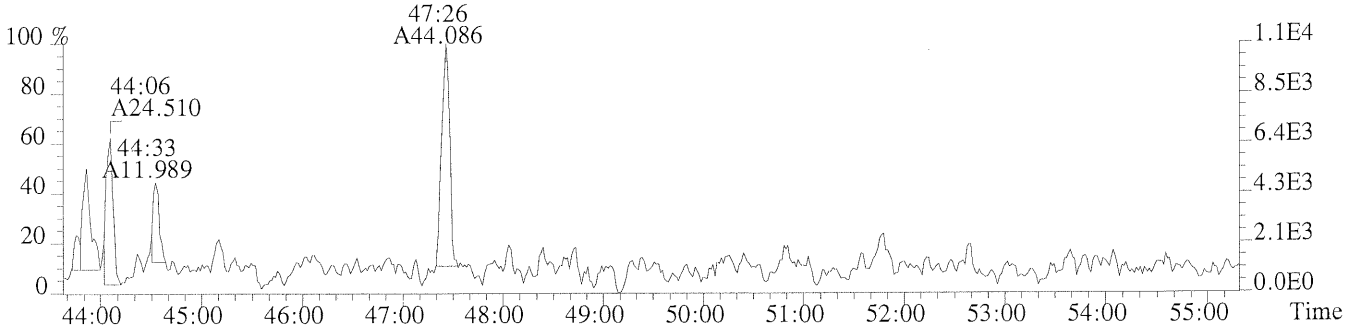
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,912.0,1.00%,F,T)



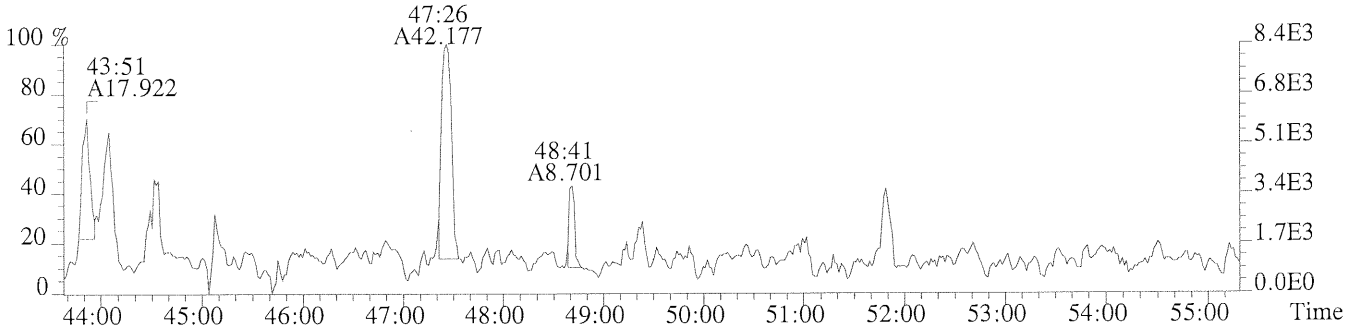
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



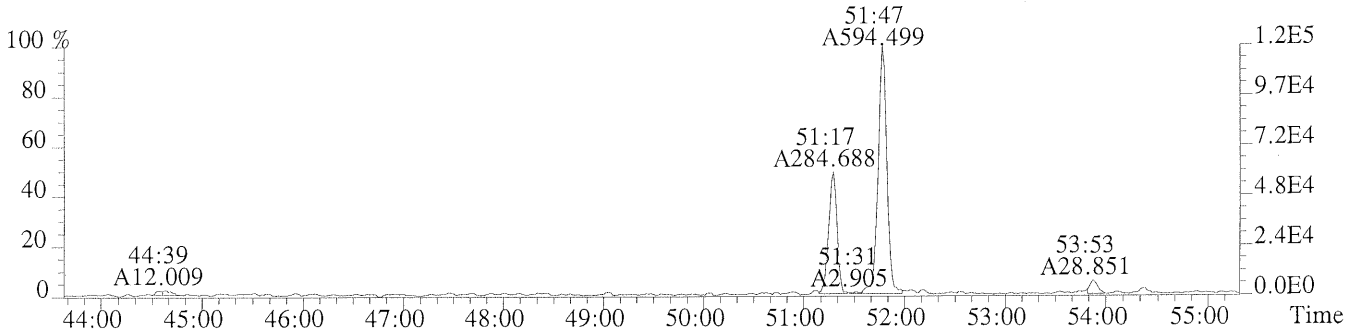
File:U142193 #1-579 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1356.0,1.00%,F,T)



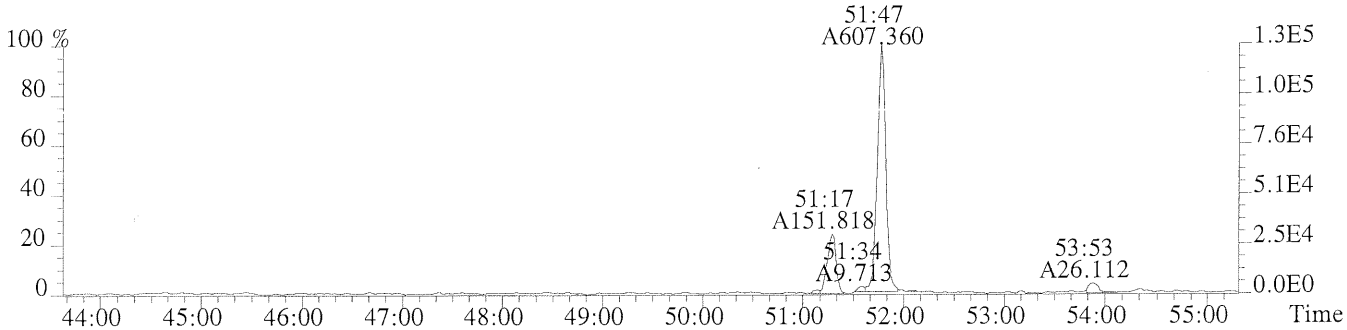
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1464.0,1.00%,F,T)



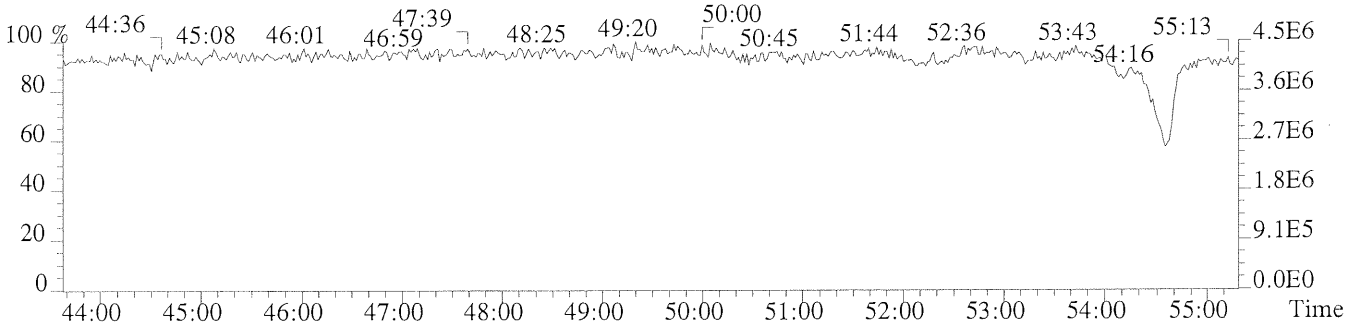
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1308.0,1.00%,F,T)



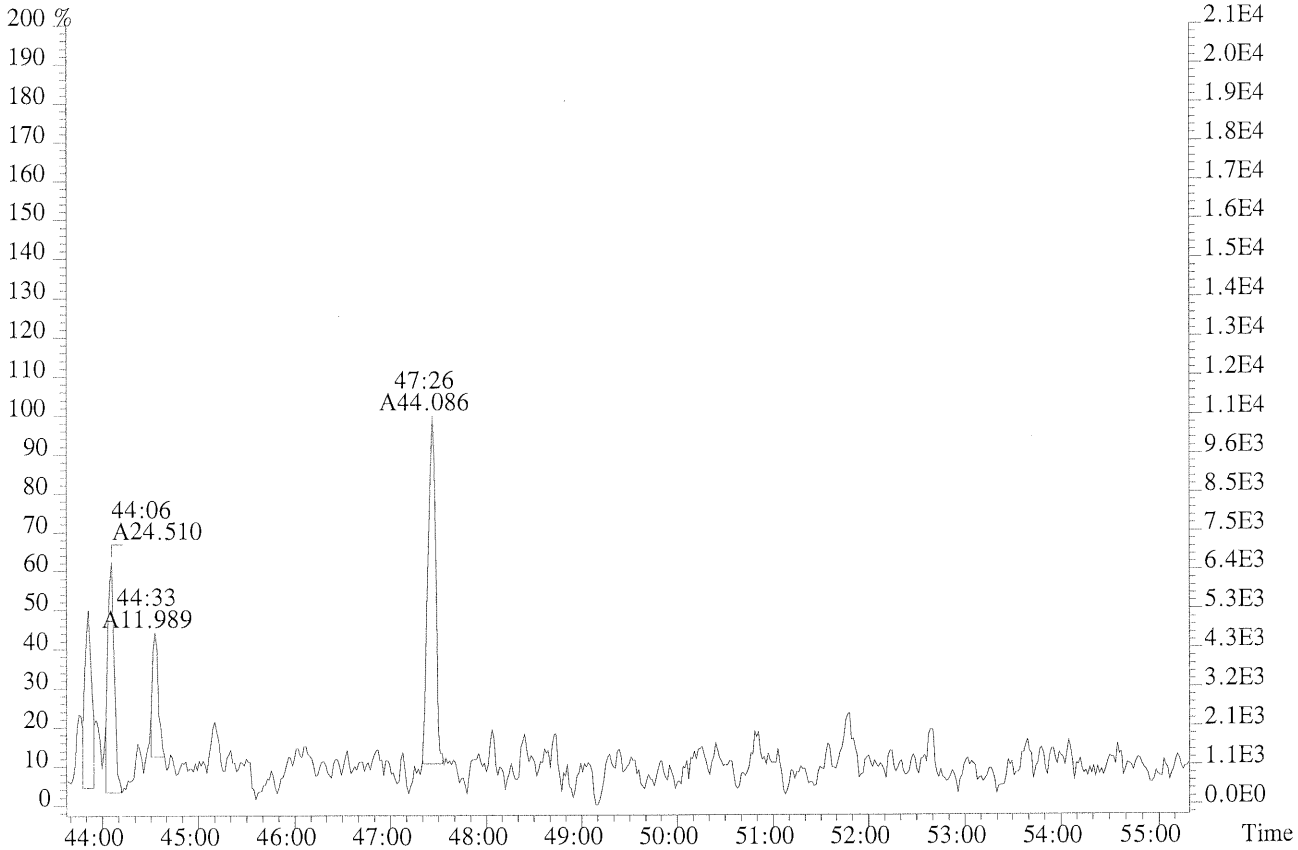
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,996.0,1.00%,F,T)



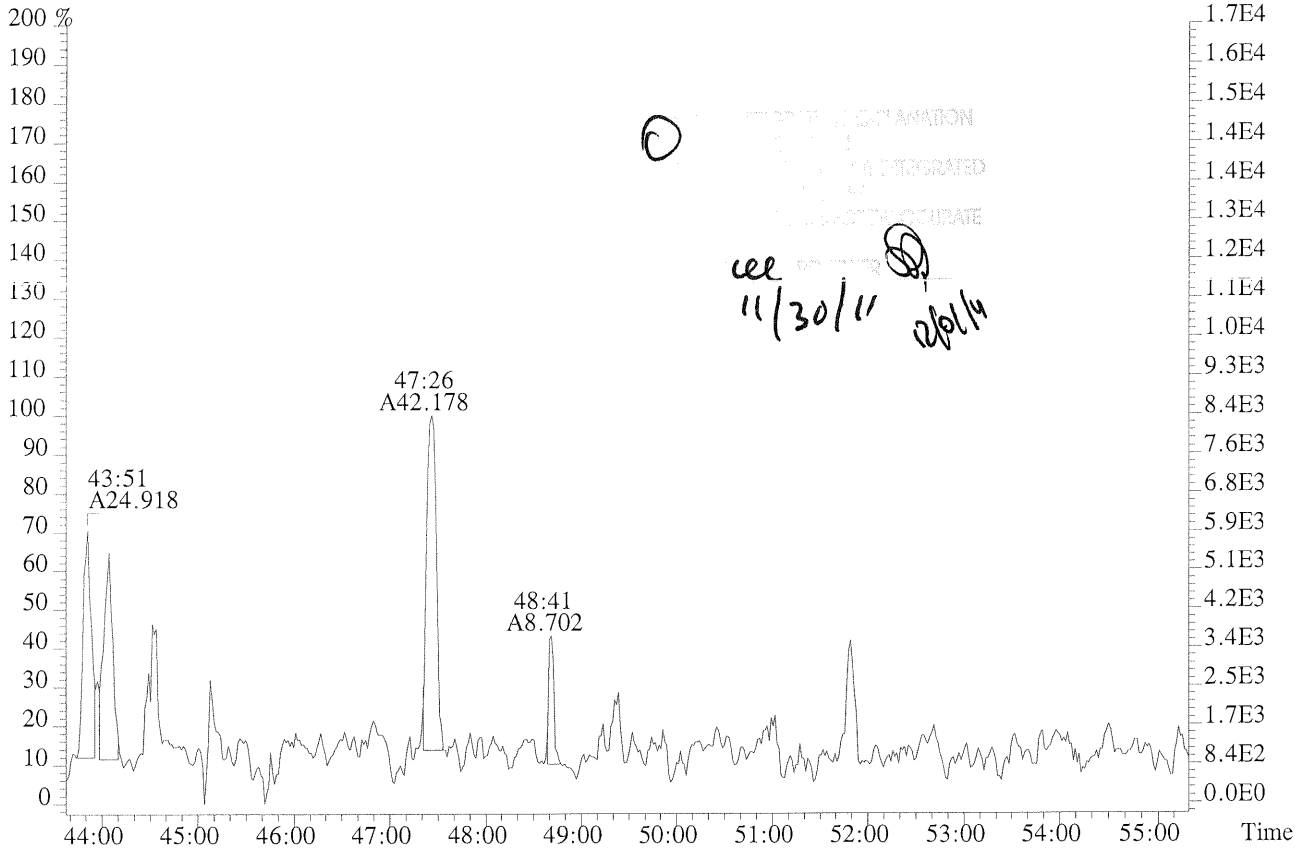
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142193 #1-579 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1356.0,1.00%,F,T)

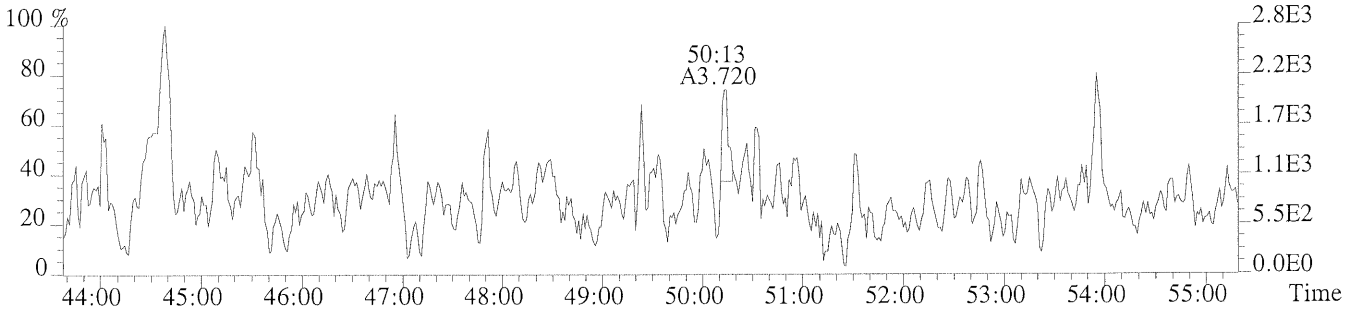


395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0)

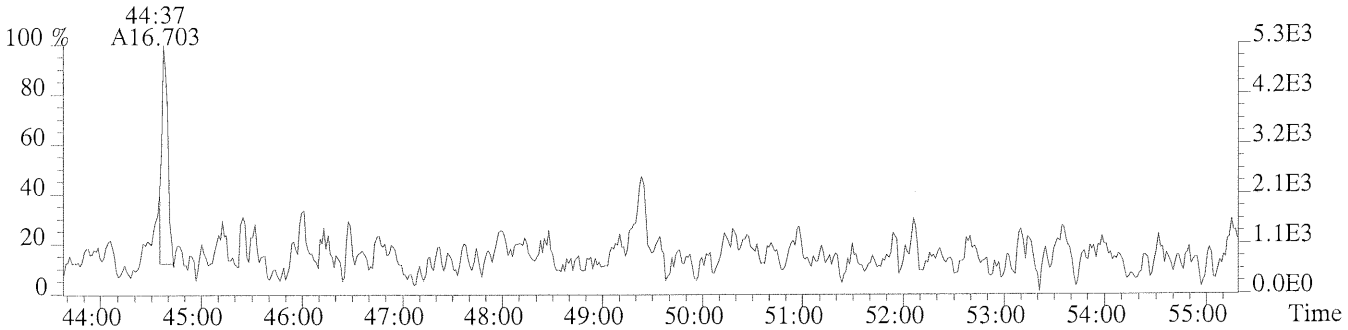


cee 11/30/11 12/01/11

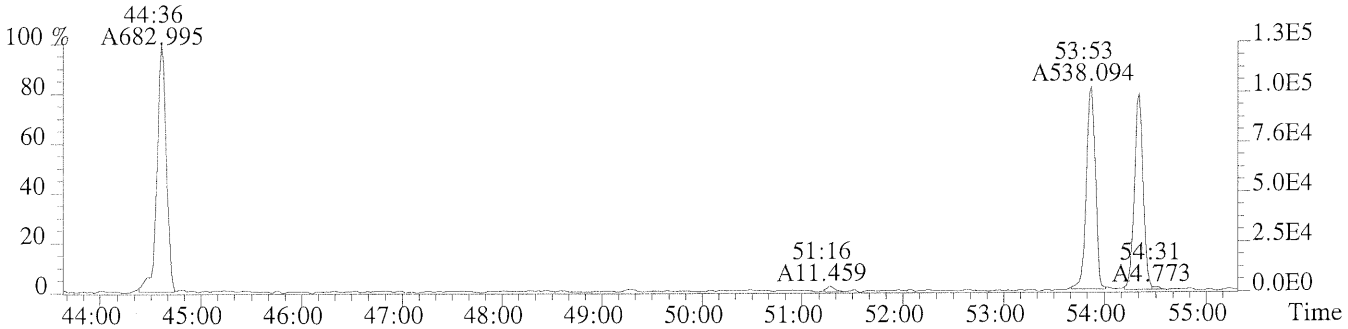
File:U142193 #1-579 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1052.0,1.00%,F,T)



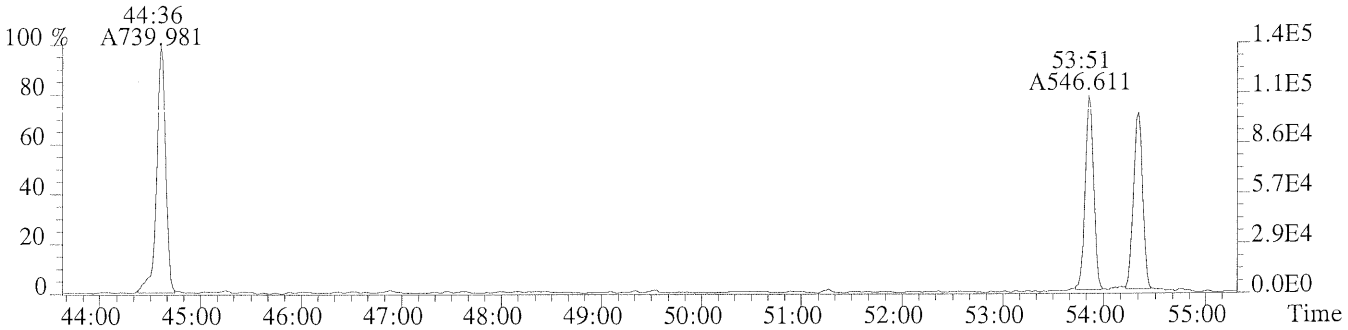
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1020.0,1.00%,F,T)



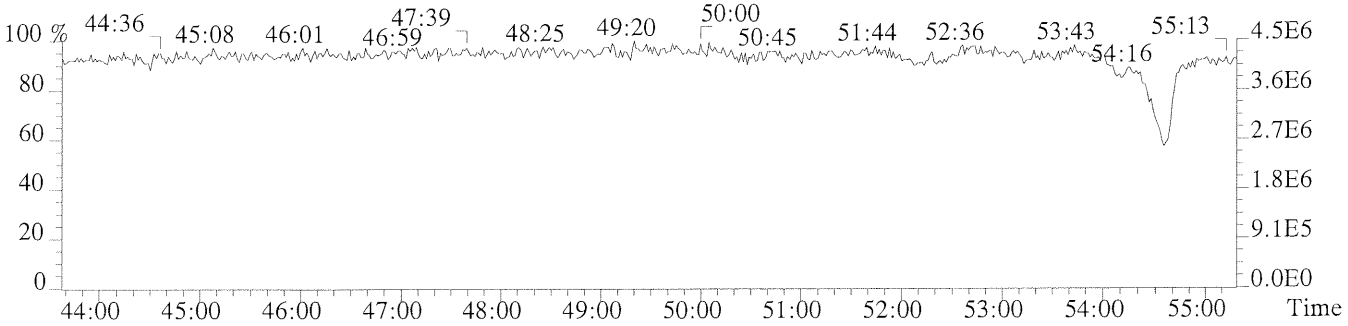
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



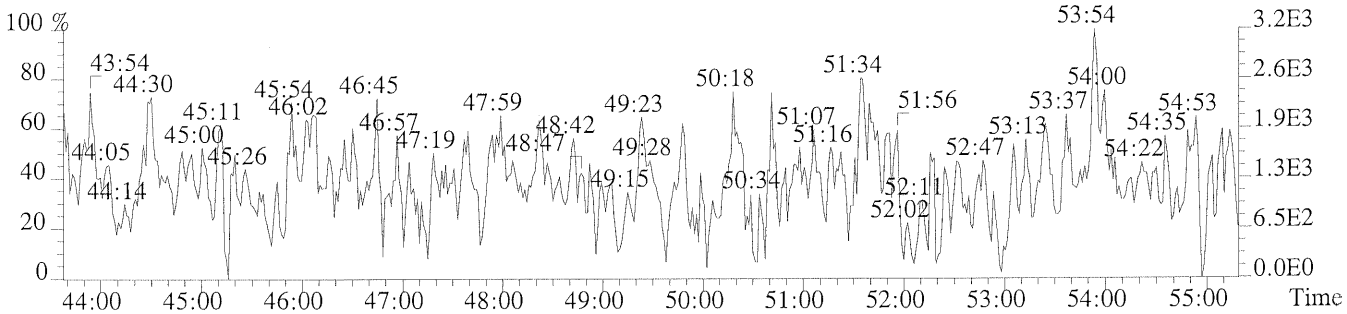
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)



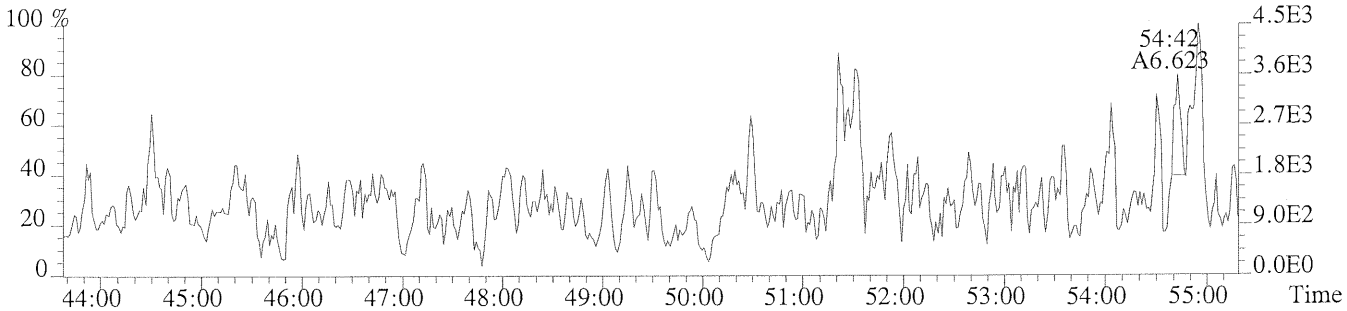
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



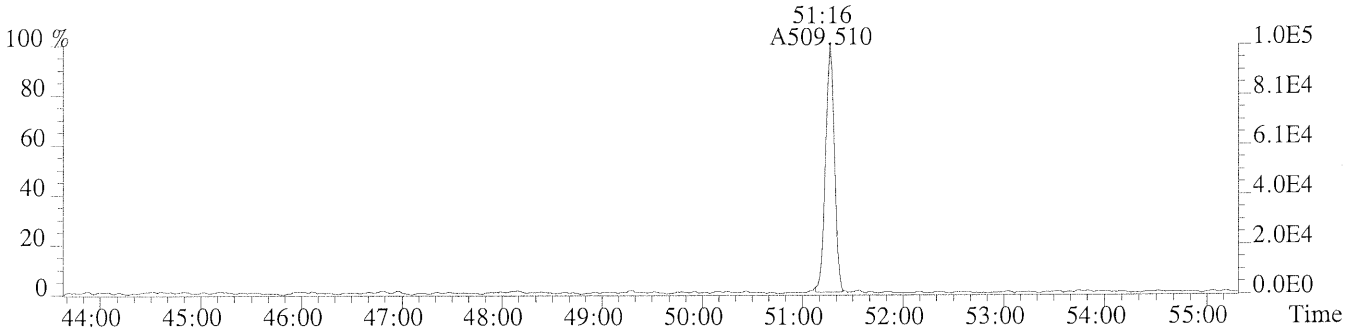
File:U142193 #1-579 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1676.0,1.00%,F,T)



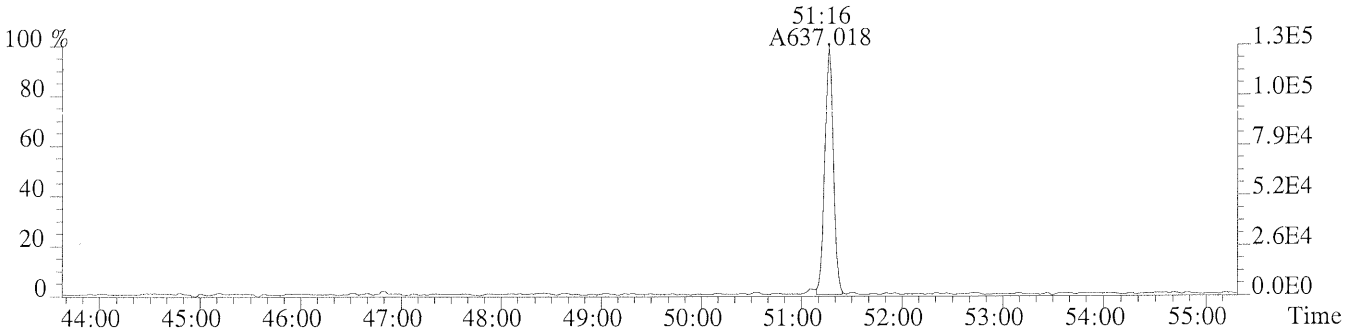
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1568.0,1.00%,F,T)



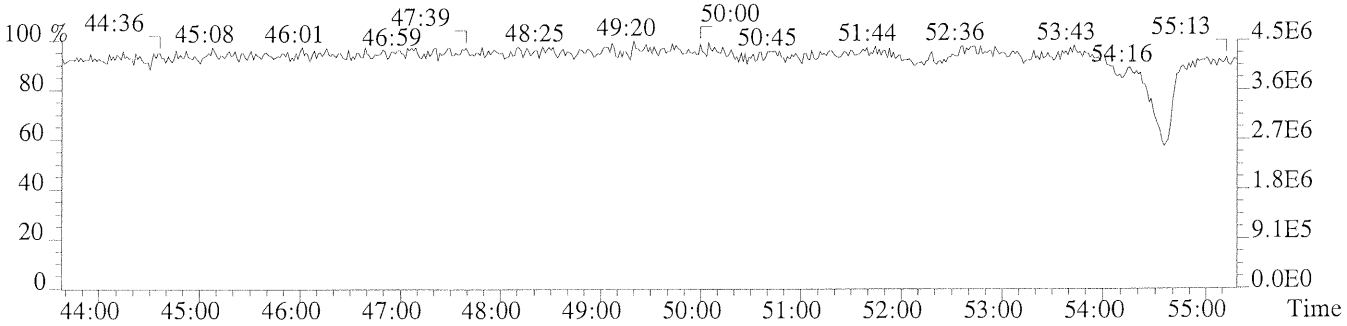
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1288.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1372.0,1.00%,F,T)

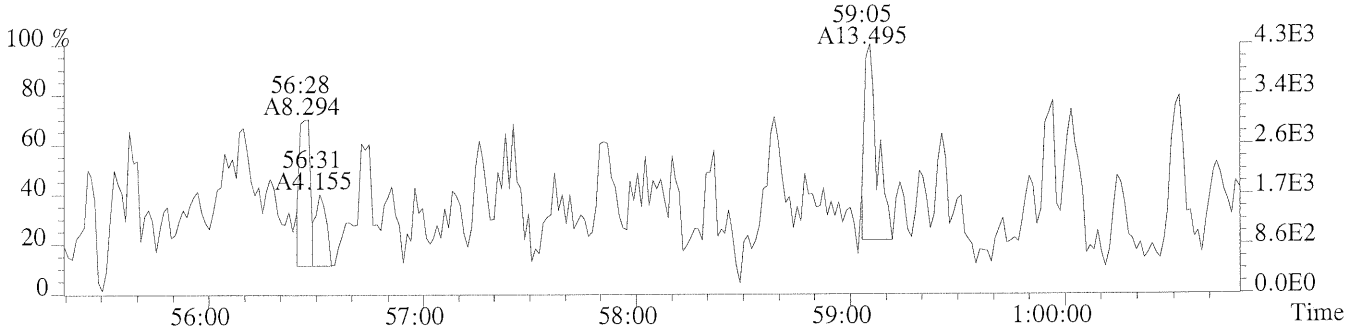


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

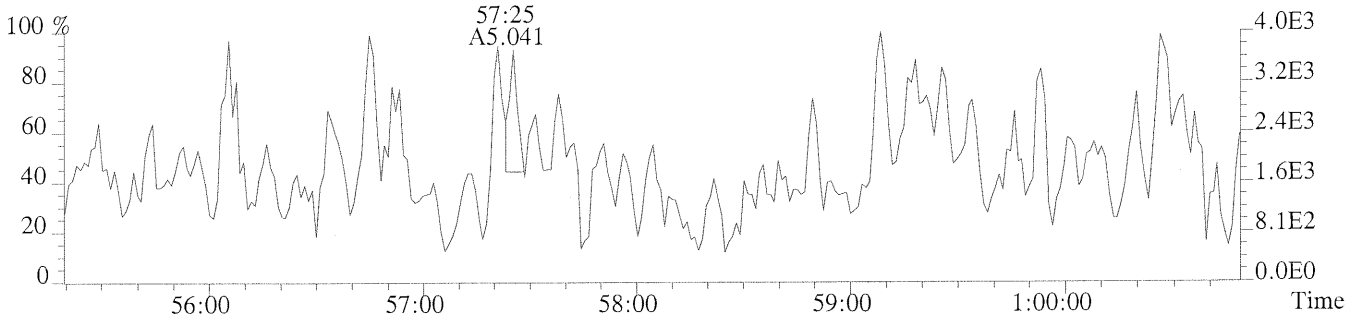


File:U142193 #1-310 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs

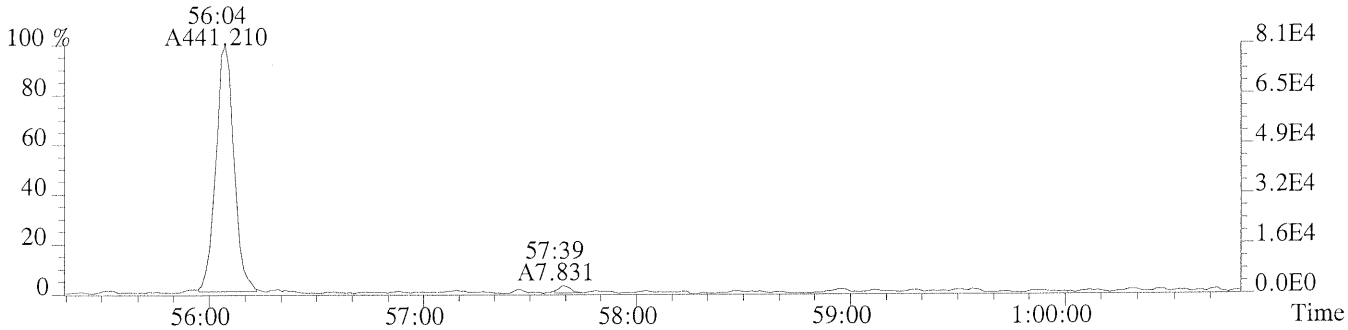
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1784.0,1.00%,F,T)



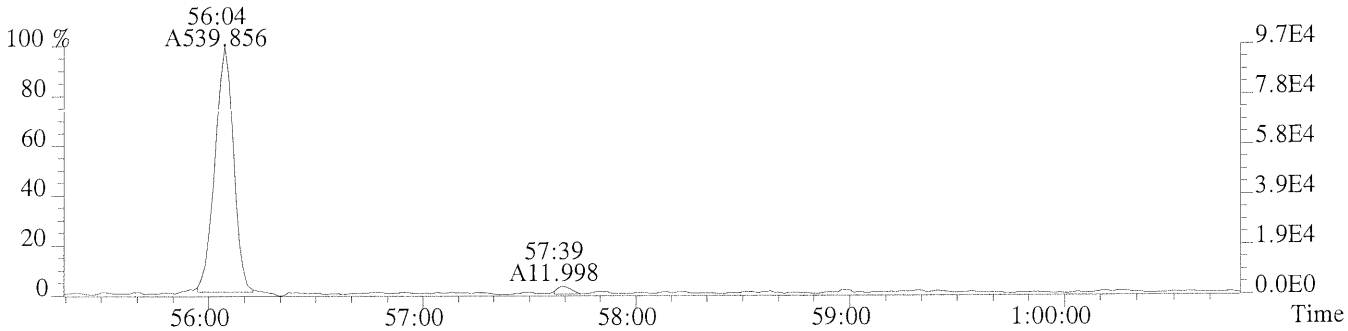
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2308.0,1.00%,F,T)



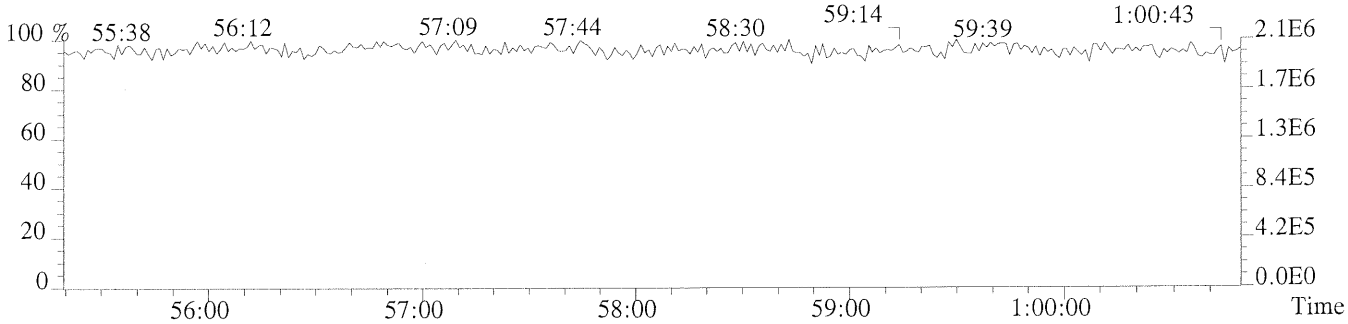
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)



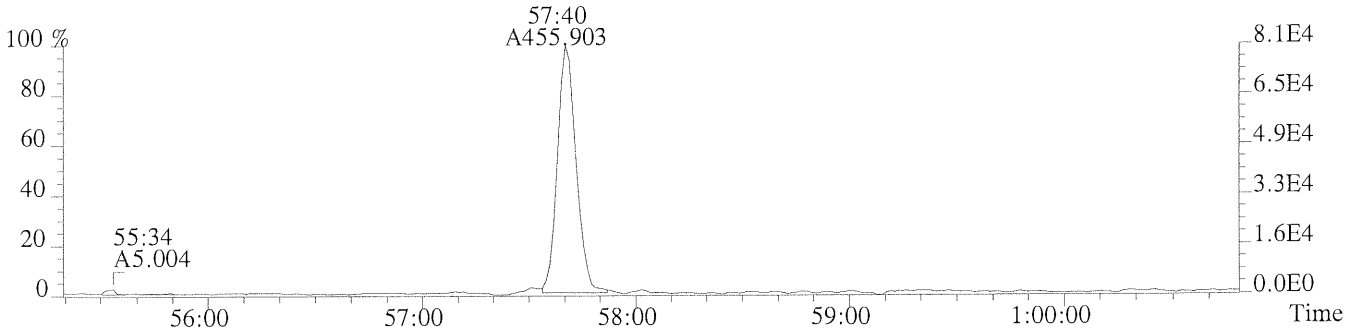
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1168.0,1.00%,F,T)



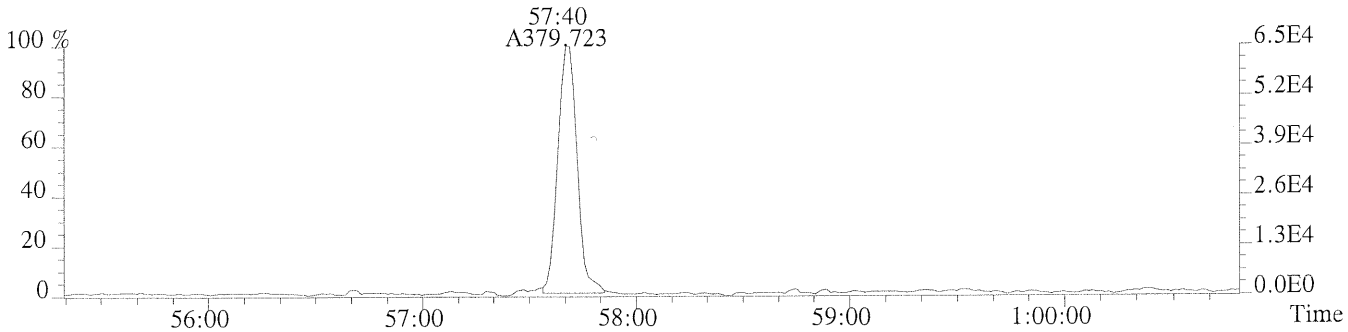
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



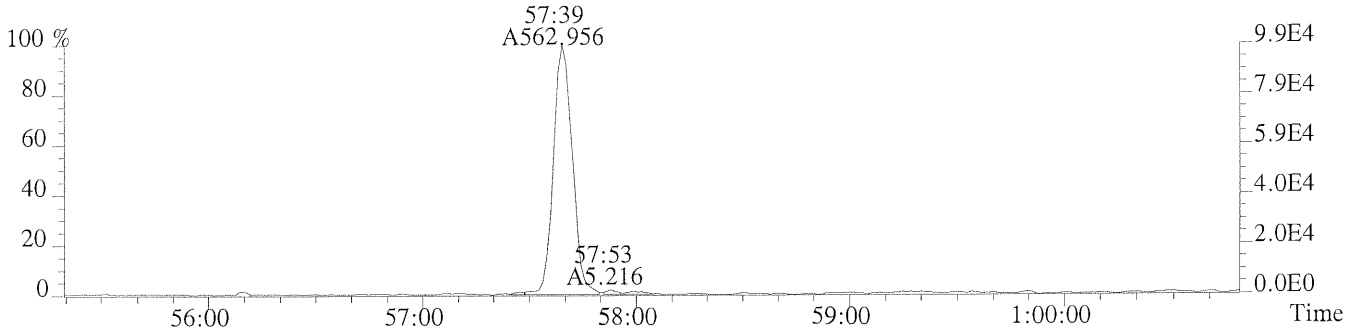
File:U142193 #1-310 Acq:28-NOV-2011 13:05:05 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:E1101017-011 B4-Dup-PCBs
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1016.0,1.00%,F,T)



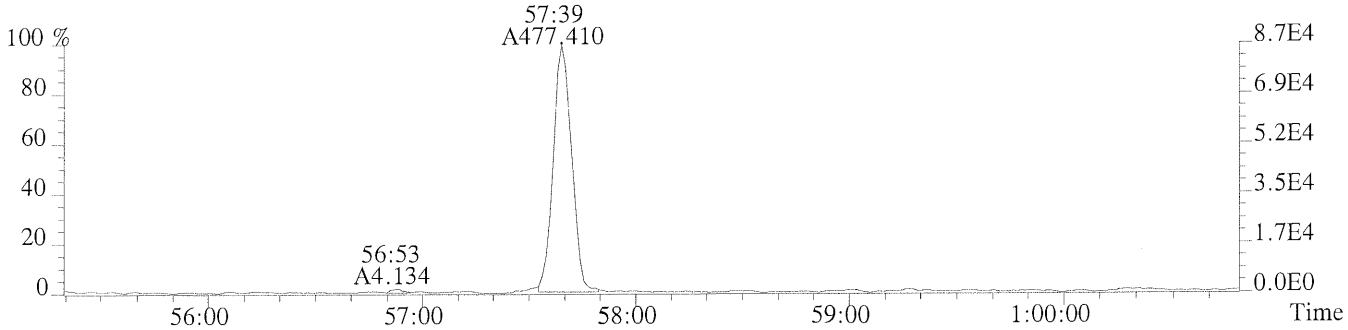
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1056.0,1.00%,F,T)



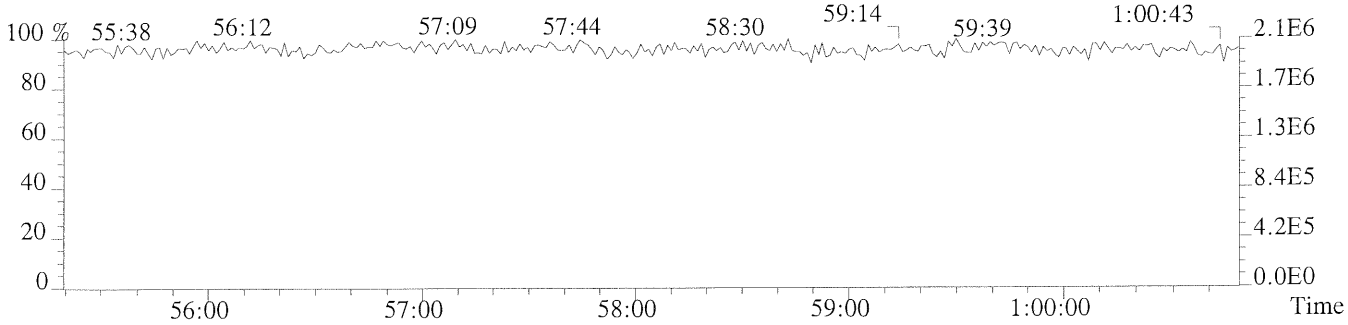
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,556.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services INC

Continuing Calibration

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

An Employee Owned Company

RW/CS3 Daily Calibration QC Checklist

Calibration File Name: U142053

Circle one
Beginning **Ending**

Date: 11/07/11

Method: **1668 WHO** **1668 Total** **1668 (209)** **1668 WHO & TOTAL**

Date 11/11/11	**First Reviewer**

Date 11/14/11	**Second Reviewer**

5DFC
PCDD/PCDF/PCB ANALYTICAL SEQUENCE SUMMARY

Lab Name: Columbia Analytical Services Contract:

Lab Code: TX01411 Case No.: SDG No.:

GC Column: SPB-OCTYL ID: 0.25 (mm) Instrument ID: E-HRMS-01

Init. Calib. Date: 02/23/11

Init. Calib.Times: 09:22

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, AND LABORATORY CONTROL SAMPLES (LCSs) IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
DCCS-209	B4-25-1	U142052	7-NOV-11	05:12:59
DCCS-209	B4-25-1	U142052	7-NOV-11	05:12:59
METHOD BLANK	EQ1100494-01	U142056	7-NOV-11	10:45:16
B4CS-SS1-PCBs	E1101017-001	U142057	7-NOV-11	11:48:26
B4CS-SS2-PCBs	E1101017-002	U142058	7-NOV-11	12:56:43
B4-SSBlank-PCBs	E1101017-003	U142059	7-NOV-11	14:04:53
B4CS-CS1-PCBs	E1101017-004	U142060	7-NOV-11	15:13:09

5DFC
PCDD/PCDF/PCB ANALYTICAL SEQUENCE SUMMARY

Lab Name: Columbia Analytical Services Contract:

Lab Code: TX01411 Case No.: SDG No.:

GC Column: SPB-OCTYL ID: 0.25 (mm) Instrument ID: E-HRMS-01

Init. Calib. Date: 02/23/11

Init. Calib.Times: 09:22

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, AND LABORATORY CONTROL SAMPLES (LCSs) IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CCAL CS3	CCAL CS3	U142053	7-NOV-11	06:40:39
LCS	EQ1100494-02	U142054	7-NOV-11	07:54:05
DLCS	EQ1100494-03	U142055	7-NOV-11	08:57:21

Sample List Report MassLynx 4.1

Sample List: C:\MassLynx\CASHOUSTON.PRO\SampleDB\U1111107.SPL
Last Modified: Monday, November 07, 2011 07:53:47 Central Standard Time
Printed: Monday, November 07, 2011 14:36:56 Central Standard Time

Columbia Analytical Services
19408 Park Row
Suite 320
Houston, Texas 77084

C:U142052CAL/RES/SURR

	Date	Time	File Name	Sample ID	Client ID	Analyst	Comments	GC Met	Acq Met
1	11/07/11	05:12	U142052	PCB 209 INJECTION	B4-25-1		HRMS check 05:09	1668EPA	1668EPA
2		06:40	U142053	CCAL CS3	B2-26-1			1668EPA	1668EPA
3		07:54	U142054	EQ1100494-02	LCS			1668EPA	1668EPA
4		08:57	U142055	EQ1100494-03	DLCS			1668EPA	1668EPA
5		10:45	U142056	EQ1100494-01	MB			1668EPA	1668EPA
6		11:48	U142057	E1101017-001	B4CS-SS1-PCBs			1668EPA	1668EPA
7		12:56	U142058	E1101017-002	B4CS-SS2-PCBs			1668EPA	1668EPA
8		14:04	U142059	E1101017-003	B4-SSBlank-PCBs			1668EPA	1668EPA
9		15:13	U142060	E1101017-004	B4CS-CS1-PCBs		HRMS check 17:27	1668EPA	1668EPA
10			---	---	---			1668EPA	1668EPA
11			---	---	---			1668EPA	1668EPA
12			---	---	---			1668EPA	1668EPA
13			---	---	---			1668EPA	1668EPA
14			---	---	---			1668EPA	1668EPA
15			---	---	---			1668EPA	1668EPA
16			---	---	---			1668EPA	1668EPA
17			---	---	---			1668EPA	1668EPA
18			---	---	---			1668EPA	1668EPA
19			---	---	---			---	---
20			---	---	---			---	---
21			---	---	---			TCDFCAS	TCDFCAS
22			---	---	---			1668EPA	1668EPA
23			---	---	---			---	---
24			---	---	---			---	---
25			---	---	---			TCDFCAS	TCDFCAS
26			---	---	---			TCDFCAS	TCDFCAS
27			---	---	---			1668EPA	1668EPA
28			---	---	---			1668EPA	1668EPA
29			---	---	---			8290cas	8290CAS
30			---	---	---			TCDFCAS	TCDFCAS
31			---	---	---			---	---
32			---	---	---			---	---
33	---	---	---	---	---	---	---	---	---
34	---	---	---	---	---	---	---	---	---
35	---	---	---	---	---	---	---	---	---
36	---	---	---	---	---	---	---	---	---
37	---	---	---	---	---	---		---	---
38	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---

FILE U142061 SKIPPED OVER
NO DATA 11/09/11

Reviewed By: CCL 11/11/11

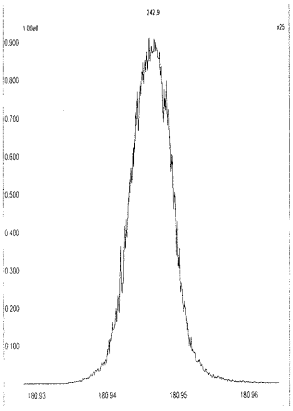
080

Experiment Calibration Report **MassLynx 4.1**

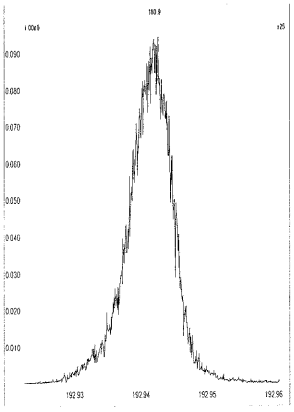
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 07, 2011 05:09:37 Central Standard Time

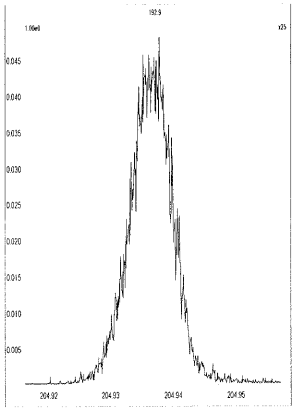
M 180.9888 R 12561



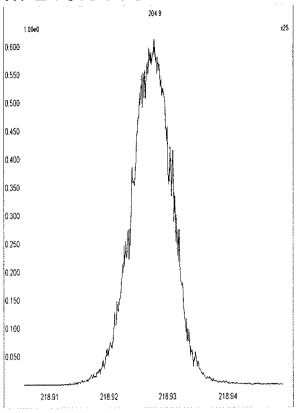
M 192.9888 R 11520



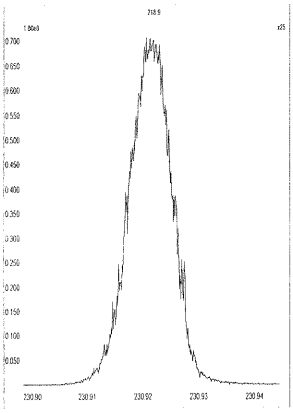
M 204.9888 R 13369



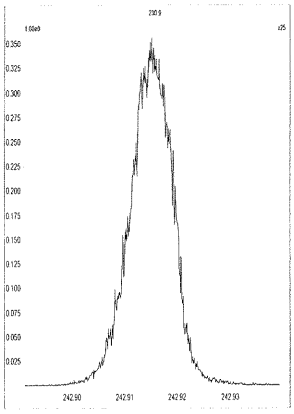
M 218.9856 R 13086



M 230.9856 R 13226



M 242.9856 R 13088

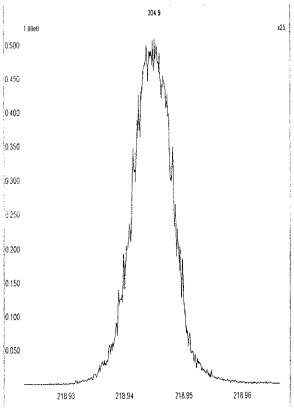


Experiment Calibration Report **MassLynx 4.1**

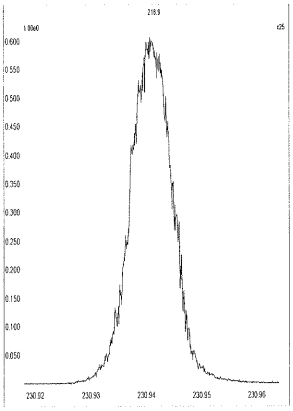
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 07, 2011 05:10:11 Central Standard Time

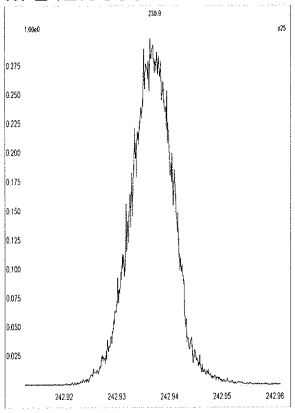
M 218.9856 R 13439



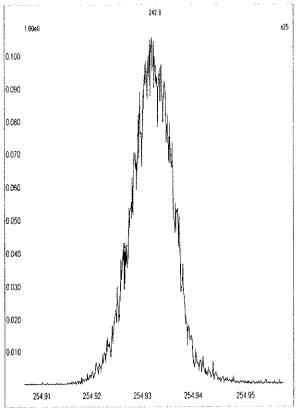
M 230.9856 R 13297



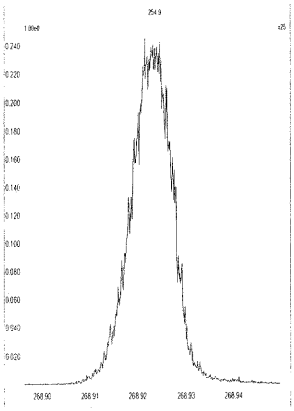
M 242.9856 R 12559



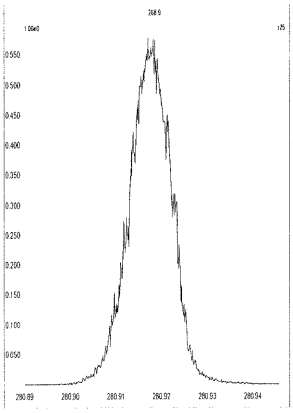
M 254.9856 R 13229



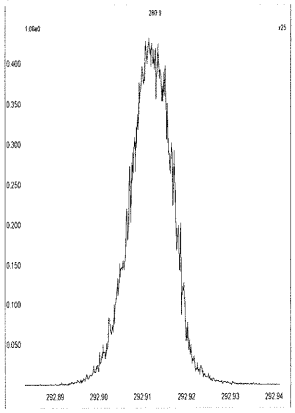
M 268.9824 R 13815



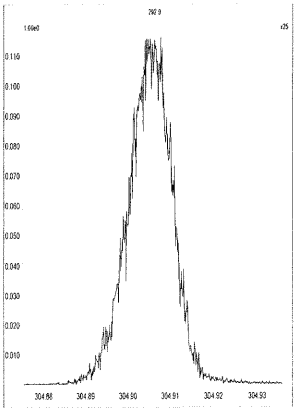
M 280.9824 R 13369



M 292.9824 R 13295



M 304.9824 R 13299

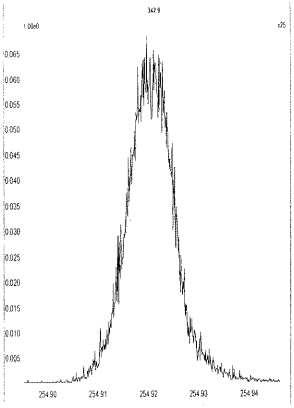


Experiment Calibration Report **MassLynx 4.1**

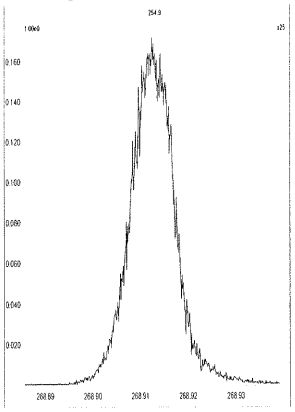
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, November 07, 2011 05:10:44 Central Standard Time

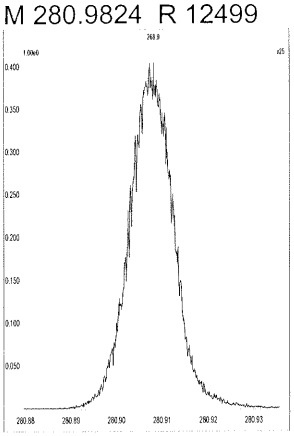
M 254.9856 R 11161



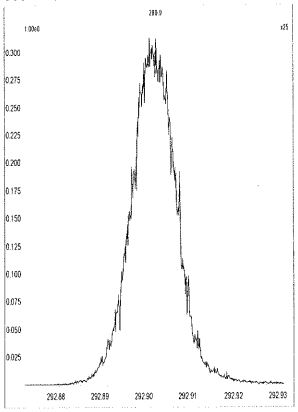
M 268.9824 R 12502



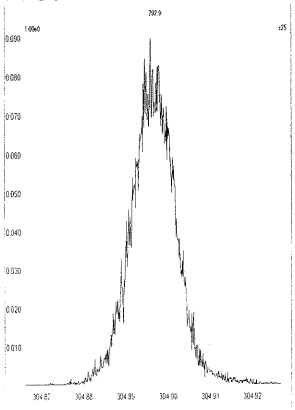
M 280.9824 R 12499



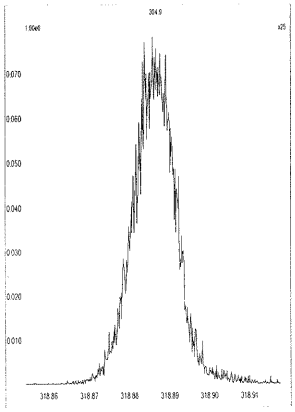
M 292.9824 R 11625



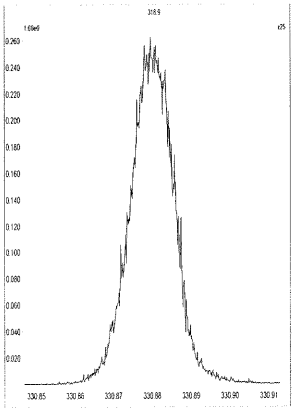
M 304.9824 R 11962



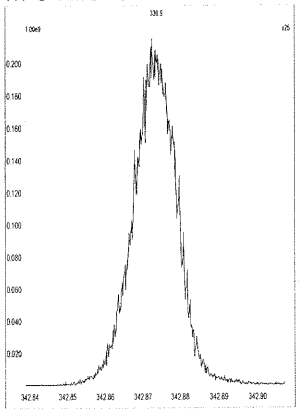
M 318.9792 R 12819



M 330.9792 R 12496



M 342.9792 R 12195

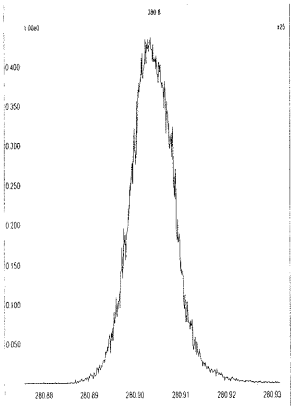


Experiment Calibration Report **MassLynx 4.1**

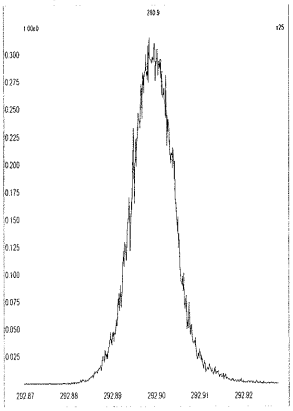
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, November 07, 2011 05:11:08 Central Standard Time

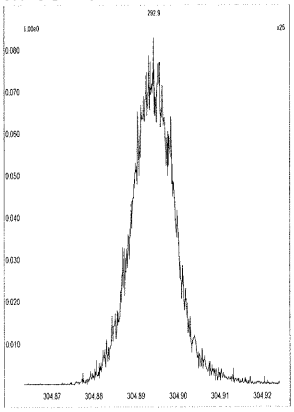
M 280.9824 R 12194



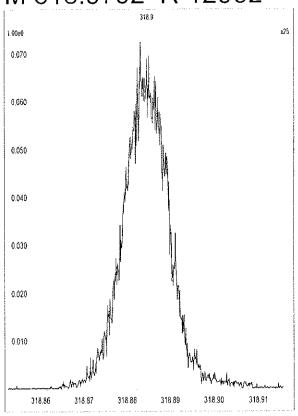
M 292.9824 R 12503



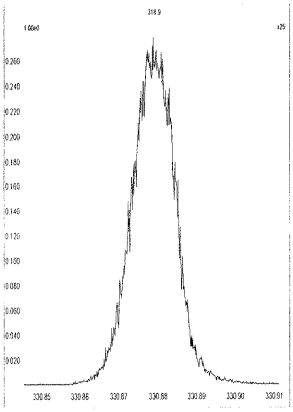
M 304.9824 R 12136



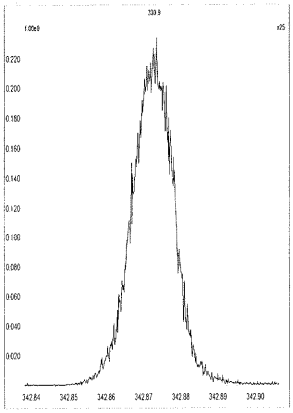
M 318.9792 R 12952



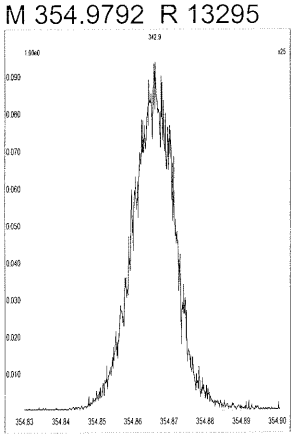
M 330.9792 R 12751



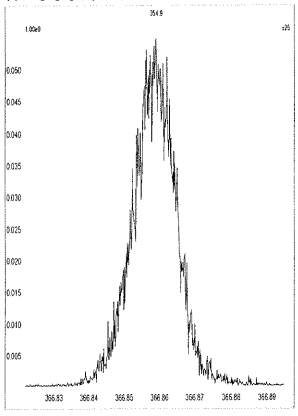
M 342.9792 R 12820



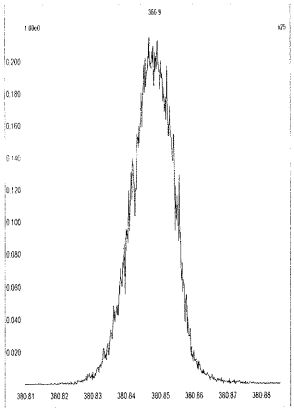
M 354.9792 R 13295



M 366.9792 R 12691



M 380.9760 R 13368

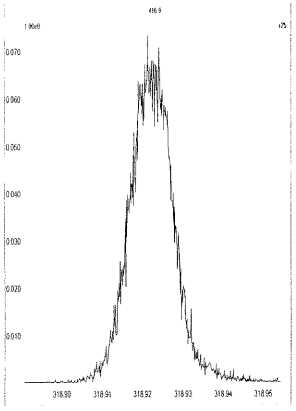


Experiment Calibration Report **MassLynx 4.1**

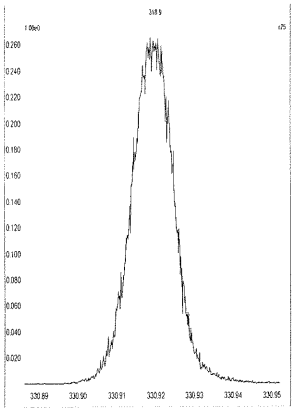
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, November 07, 2011 05:11:36 Central Standard Time

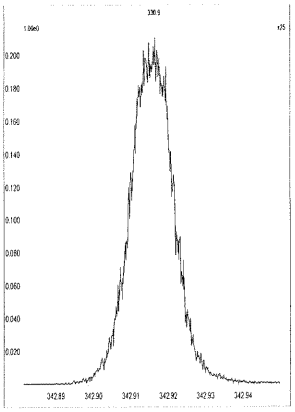
M 318.9792 R 12880



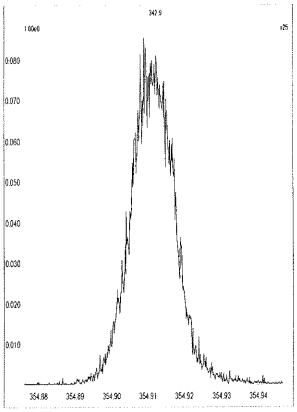
M 330.9792 R 13019



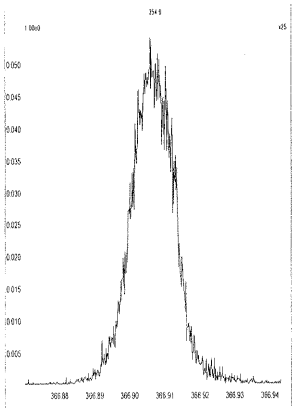
M 342.9792 R 13022



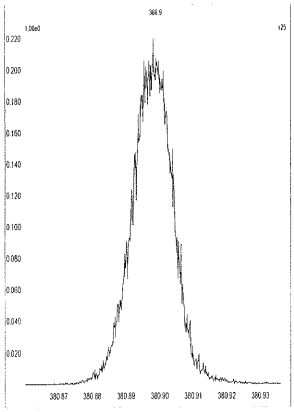
M 354.9792 R 12375



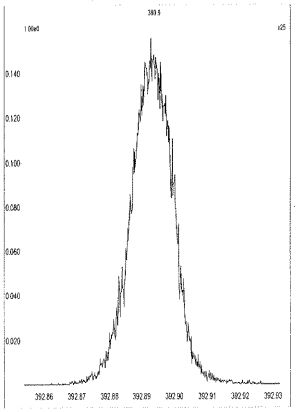
M 366.9792 R 12497



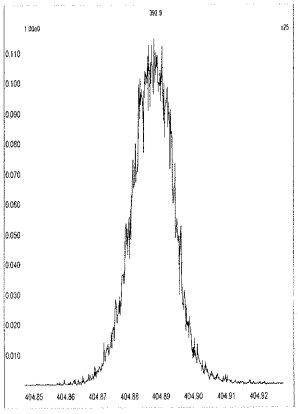
M 380.9760 R 13884



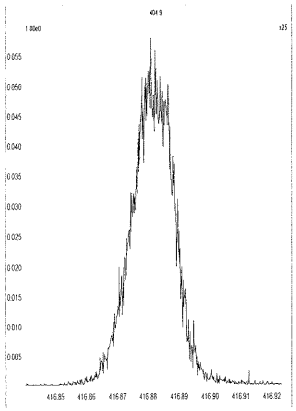
M 392.9760 R 12689



M 404.9760 R 12560



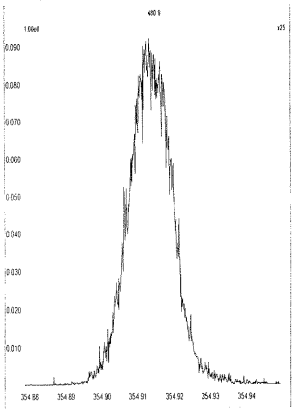
M 416.9760 R 13089



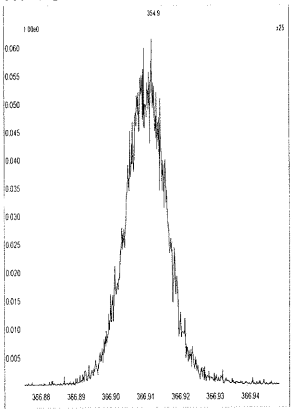
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Monday, November 07, 2011 05:12:04 Central Standard Time

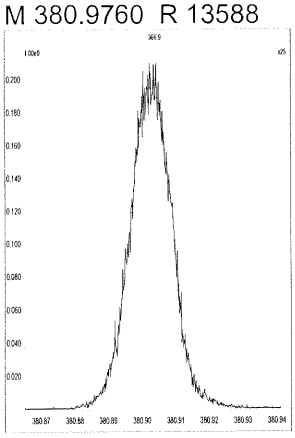
M 354.9792 R 13368



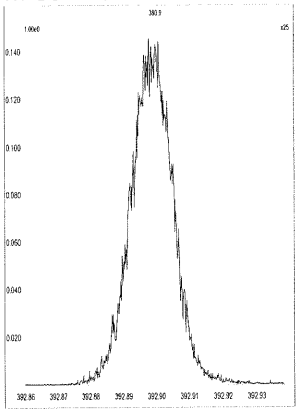
M 366.9792 R 12688



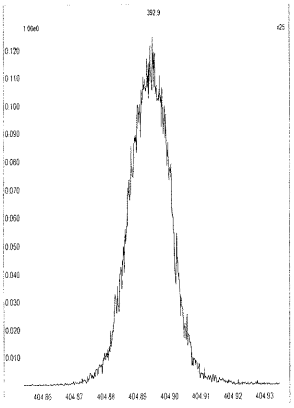
M 380.9760 R 13588



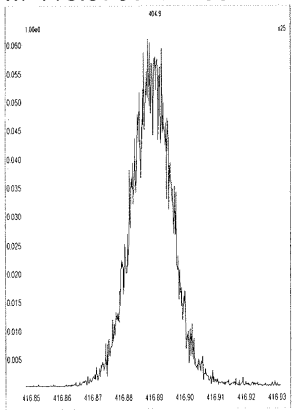
M 392.9760 R 13227



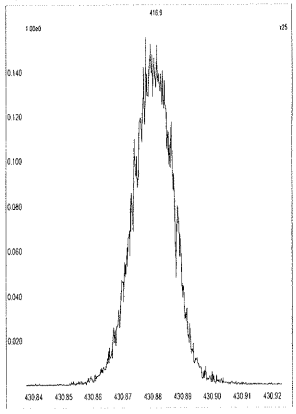
M 404.9760 R 13225



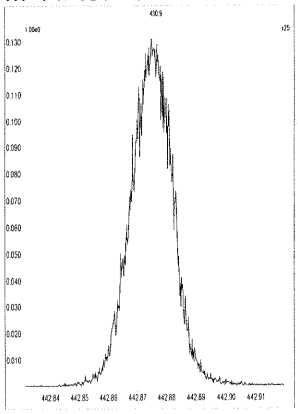
M 416.9760 R 13369



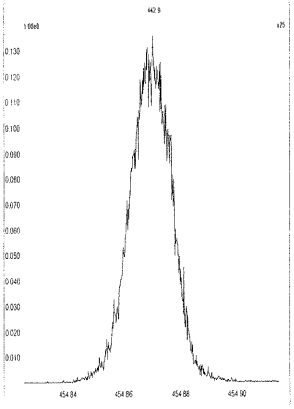
M 430.9728 R 13019



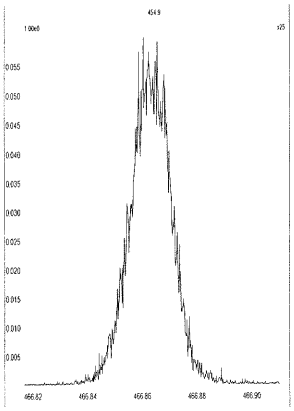
M 442.9728 R 13370



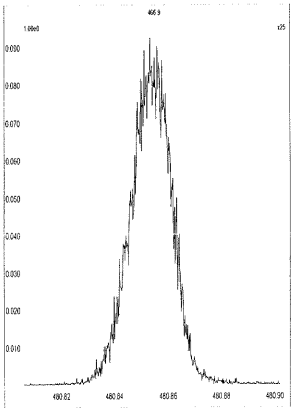
M 454.9728 R 13513



M 466.9728 R 13367



M 480.9696 R 13514

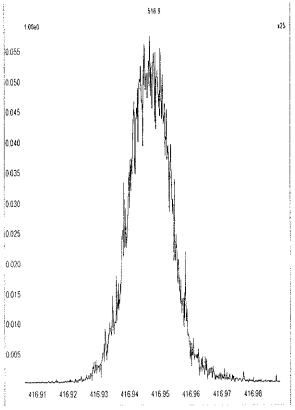


Experiment Calibration Report **MassLynx 4.1**

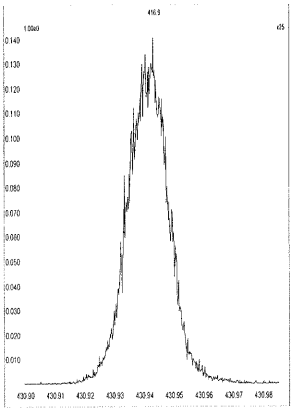
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

Printed: Monday, November 07, 2011 05:12:33 Central Standard Time

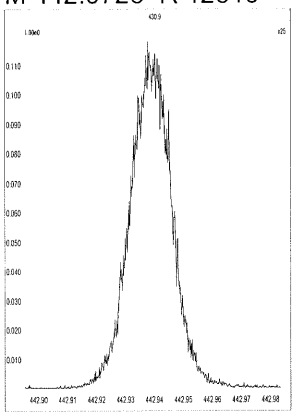
M 416.9760 R 13086



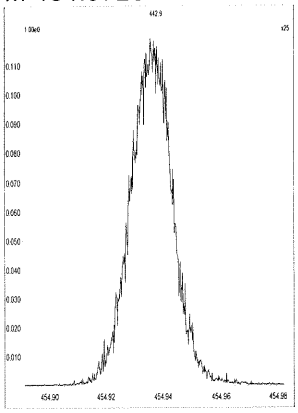
M 430.9728 R 12816



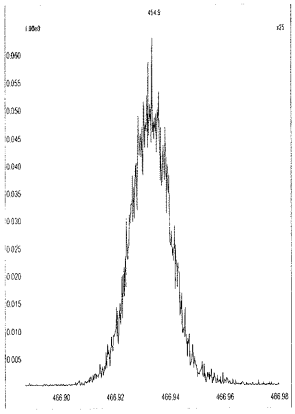
M 442.9728 R 12819



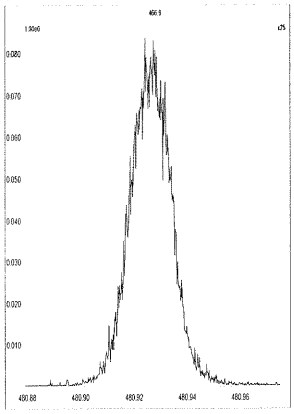
M 454.9728 R 13155



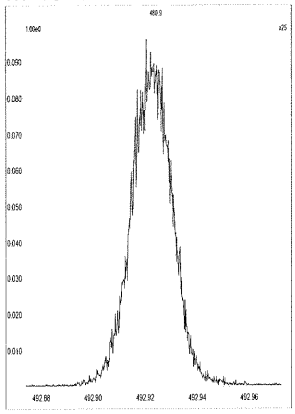
M 466.9728 R 13587



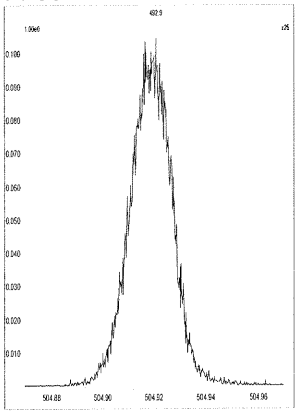
M 480.9696 R 13440



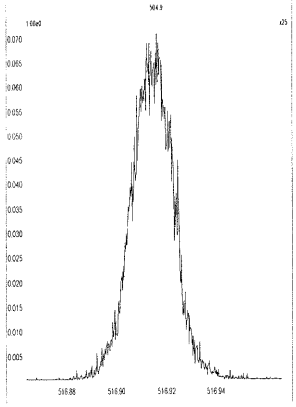
M 492.9696 R 13022



M 504.9696 R 13587



M 516.9697 R 12632

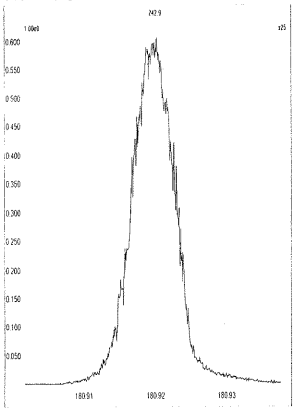


Experiment Calibration Report **MassLynx 4.1**

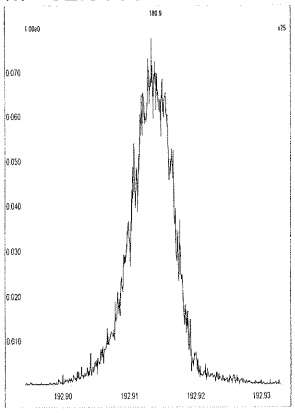
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 07, 2011 17:27:05 Central Standard Time

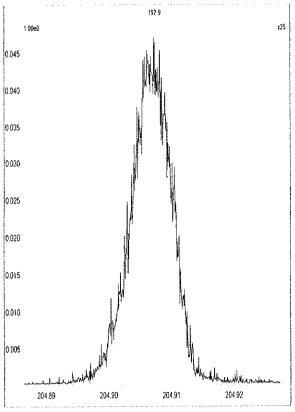
M 180.9888 R 12822



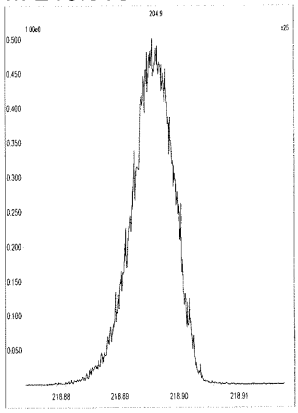
M 192.9888 R 13664



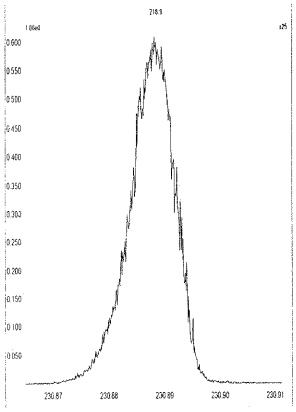
M 204.9888 R 13087



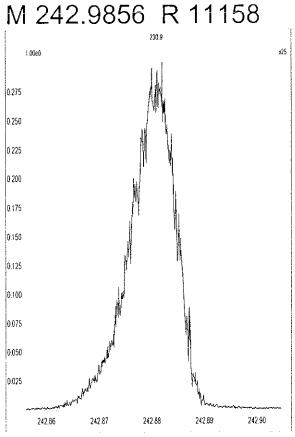
M 218.9856 R 12500



M 230.9856 R 12137



M 242.9856 R 11158

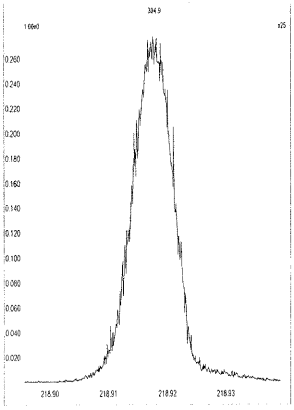


Experiment Calibration Report **MassLynx 4.1**

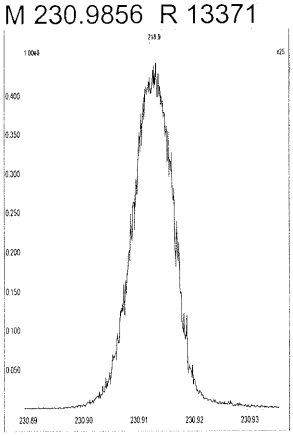
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 07, 2011 17:28:18 Central Standard Time

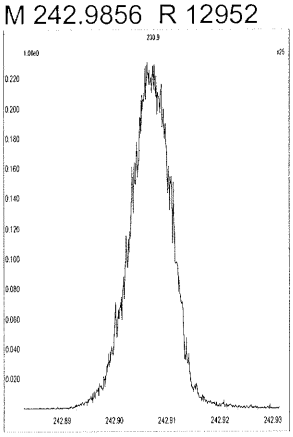
M 218.9856 R 13366



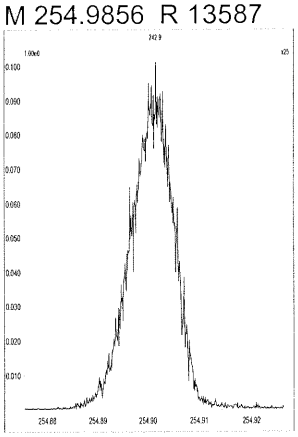
M 230.9856 R 13371



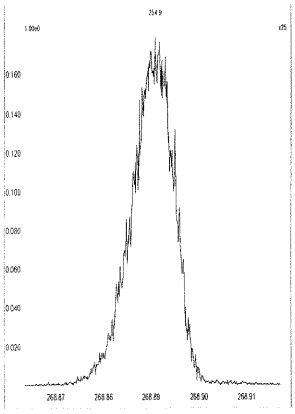
M 242.9856 R 12952



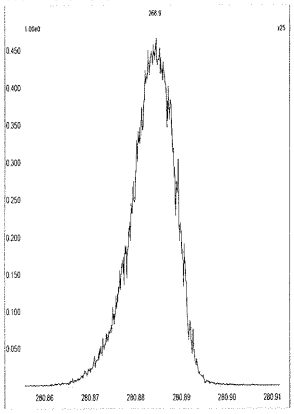
M 254.9856 R 13587



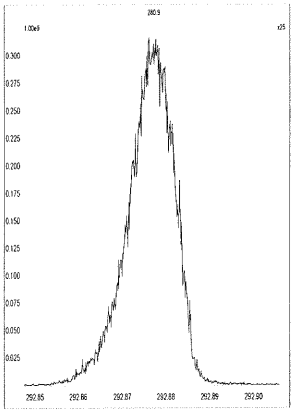
M 268.9824 R 12814



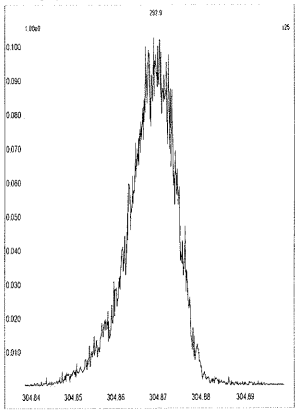
M 280.9824 R 11909



M 292.9824 R 11684



M 304.9824 R 10869

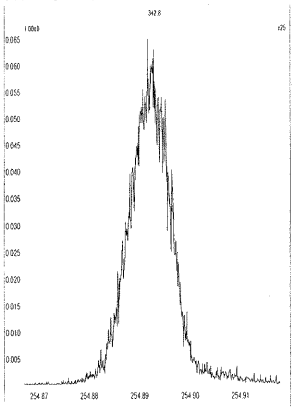


Experiment Calibration Report **MassLynx 4.1**

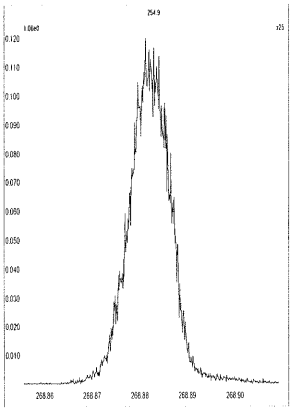
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, November 07, 2011 17:29:12 Central Standard Time

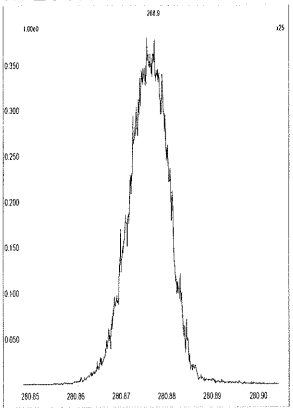
M 254.9856 R 13966



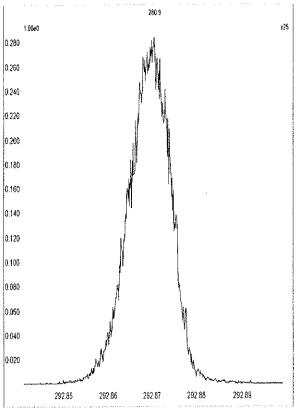
M 268.9824 R 13514



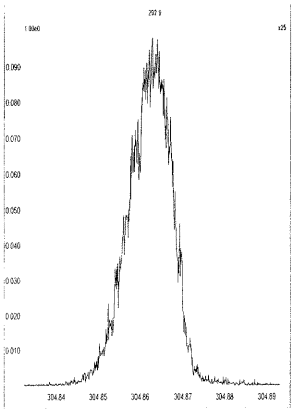
M 280.9824 R 14042



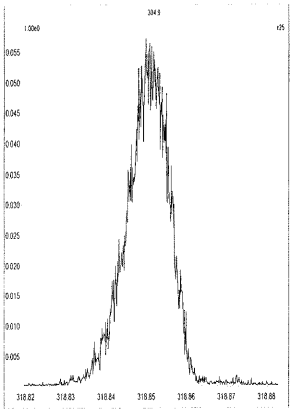
M 292.9824 R 13160



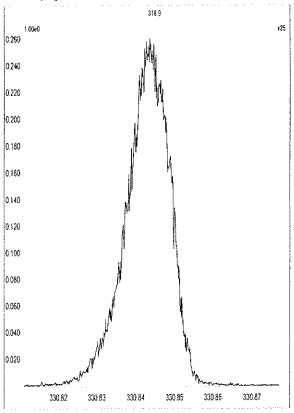
M 304.9824 R 12952



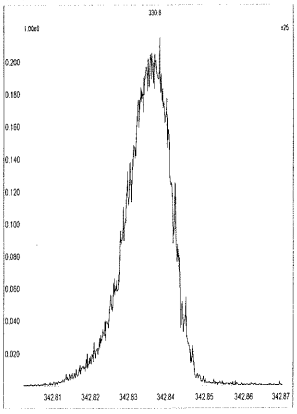
M 318.9792 R 13295



M 330.9792 R 12316



M 342.9792 R 11847

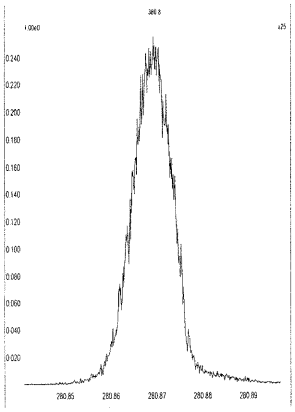


Experiment Calibration Report **MassLynx 4.1**

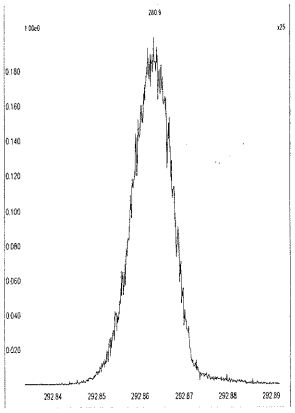
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, November 07, 2011 17:30:41 Central Standard Time

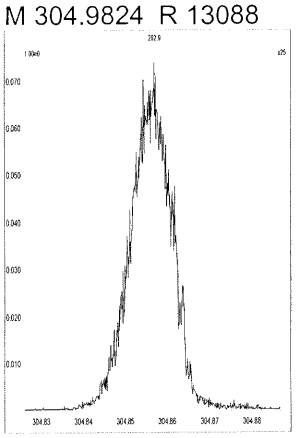
M 280.9824 R 14050



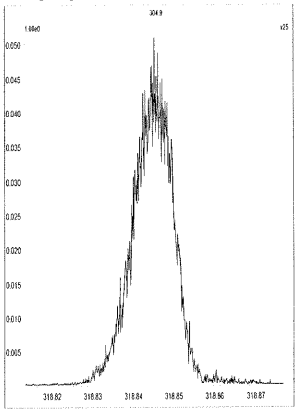
M 292.9824 R 13589



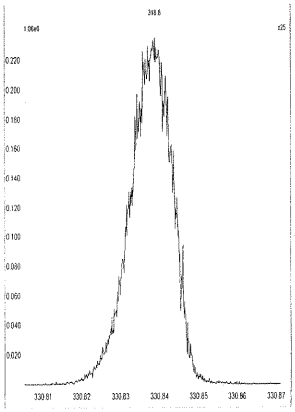
M 304.9824 R 13088



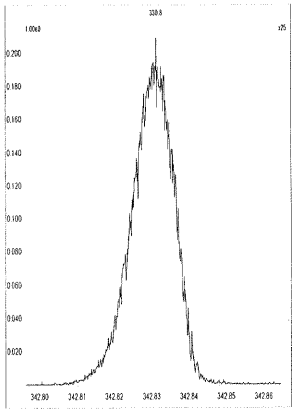
M 318.9792 R 13438



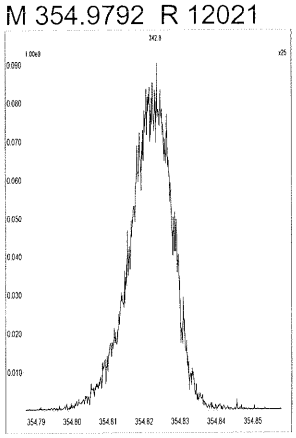
M 330.9792 R 13158



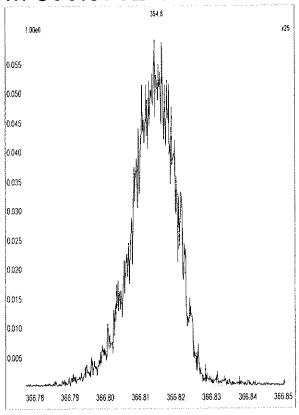
M 342.9792 R 12885



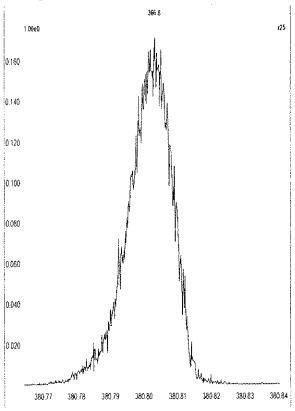
M 354.9792 R 12021



M 366.9792 R 12625



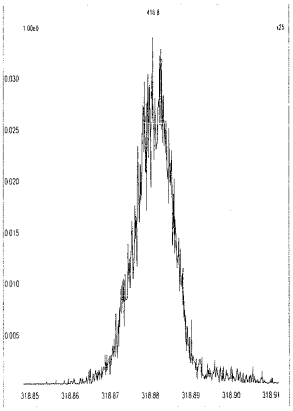
M 380.9760 R 12624



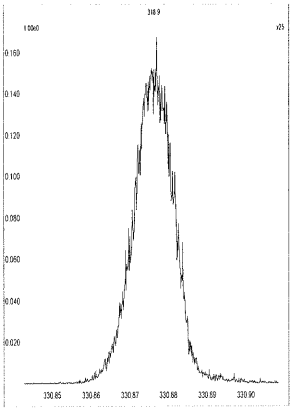
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, November 07, 2011 17:31:38 Central Standard Time

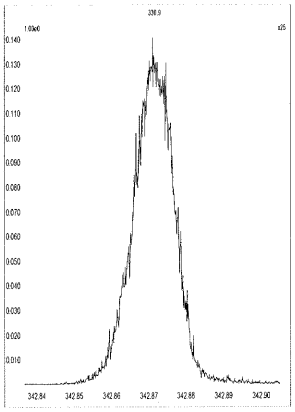
M 318.9792 R 14043



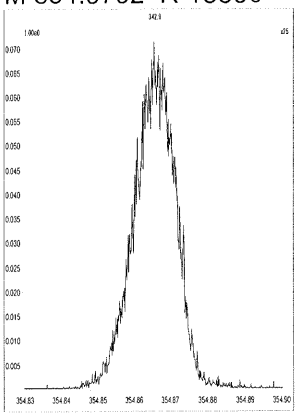
M 330.9792 R 14207



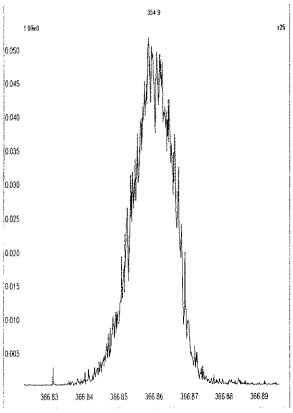
M 342.9792 R 13369



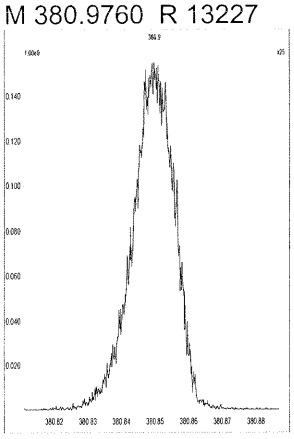
M 354.9792 R 13590



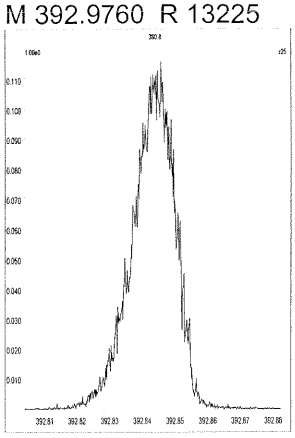
M 366.9792 R 13370



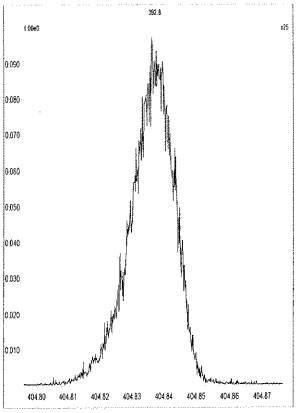
M 380.9760 R 13227



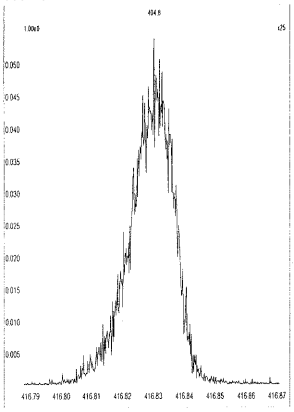
M 392.9760 R 13225



M 404.9760 R 12019



M 416.9760 R 12080

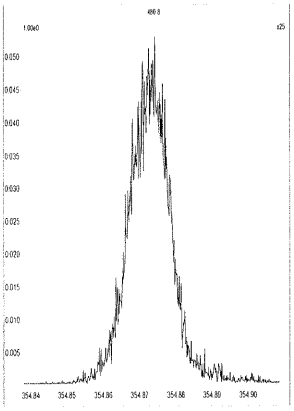


Experiment Calibration Report **MassLynx 4.1**

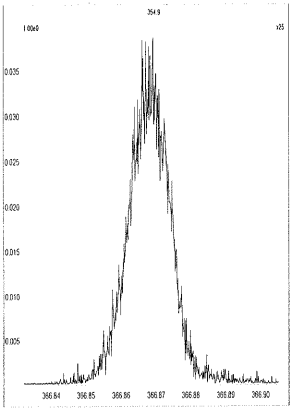
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Monday, November 07, 2011 17:32:39 Central Standard Time

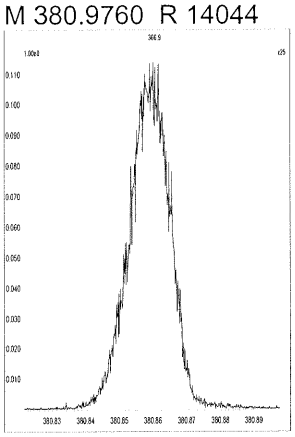
M 354.9792 R 13301



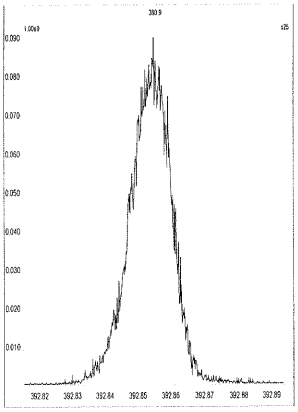
M 366.9792 R 14530



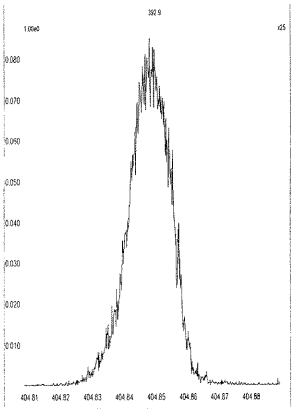
M 380.9760 R 14044



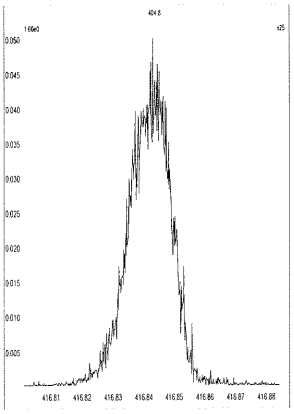
M 392.9760 R 13964



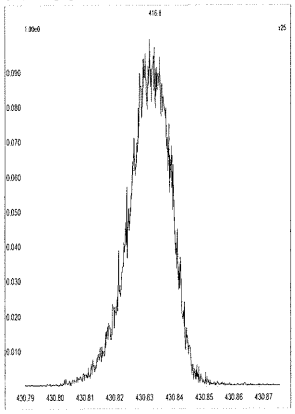
M 404.9760 R 13228



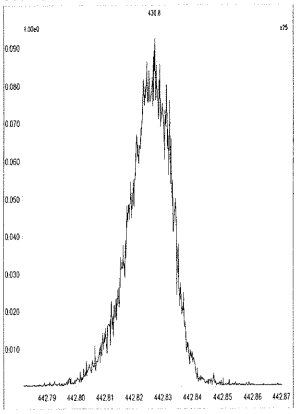
M 416.9760 R 13660



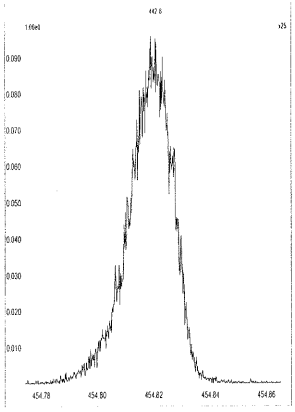
M 430.9728 R 12888



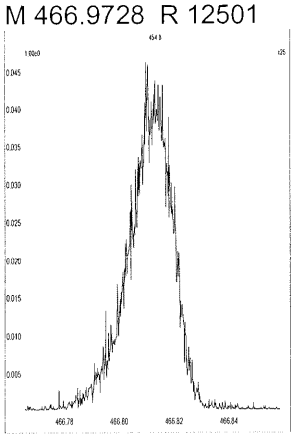
M 442.9728 R 12438



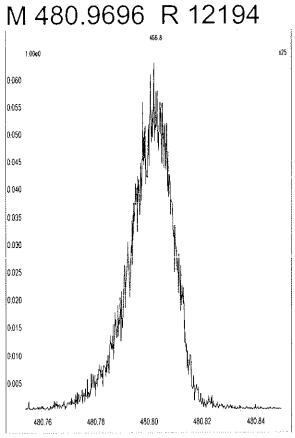
M 454.9728 R 11795



M 466.9728 R 12501



M 480.9696 R 12194

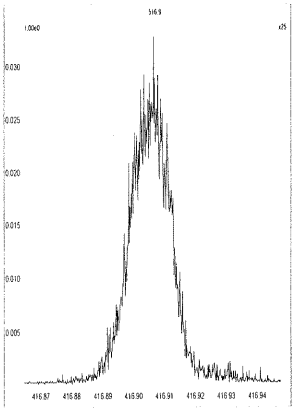


Experiment Calibration Report **MassLynx 4.1**

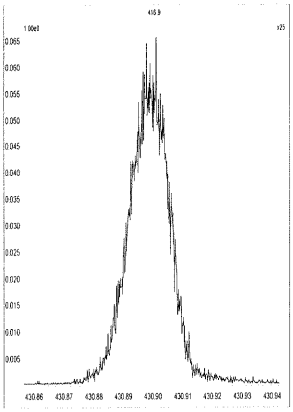
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

Printed: Monday, November 07, 2011 17:33:50 Central Standard Time

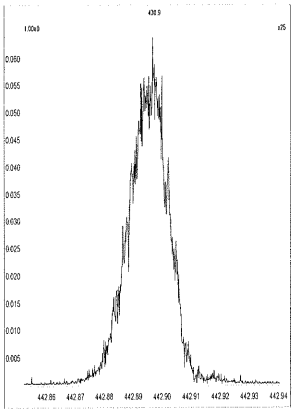
M 416.9760 R 14046



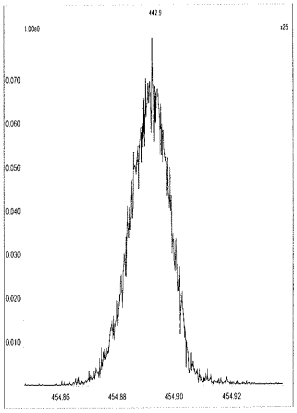
M 430.9728 R 14044



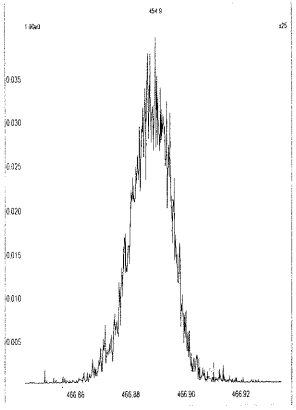
M 442.9728 R 13814



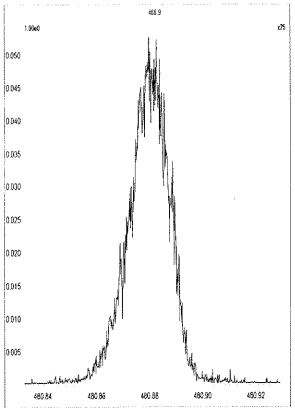
M 454.9728 R 14535



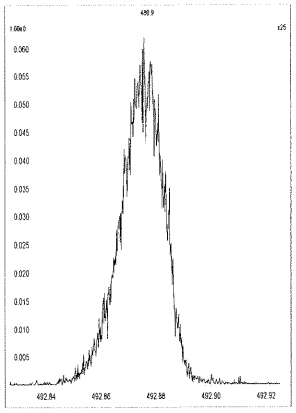
M 466.9728 R 12819



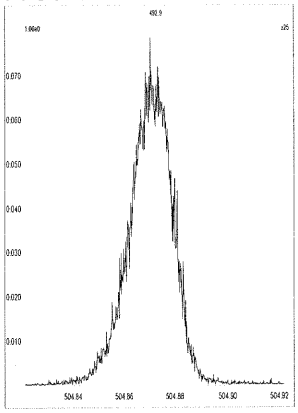
M 480.9696 R 13371



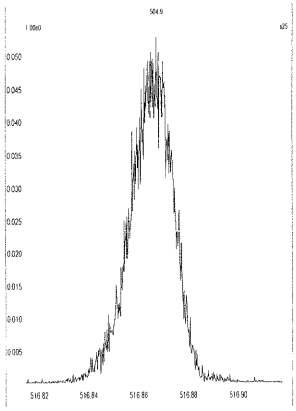
M 492.9696 R 13298



M 504.9696 R 13156



M 516.9697 R 13658



DCCS2091

METHOD 1668
DILUTED COMBINED 209 CONGENER SOLUTION (DCCS-209)

CLIENT ID:

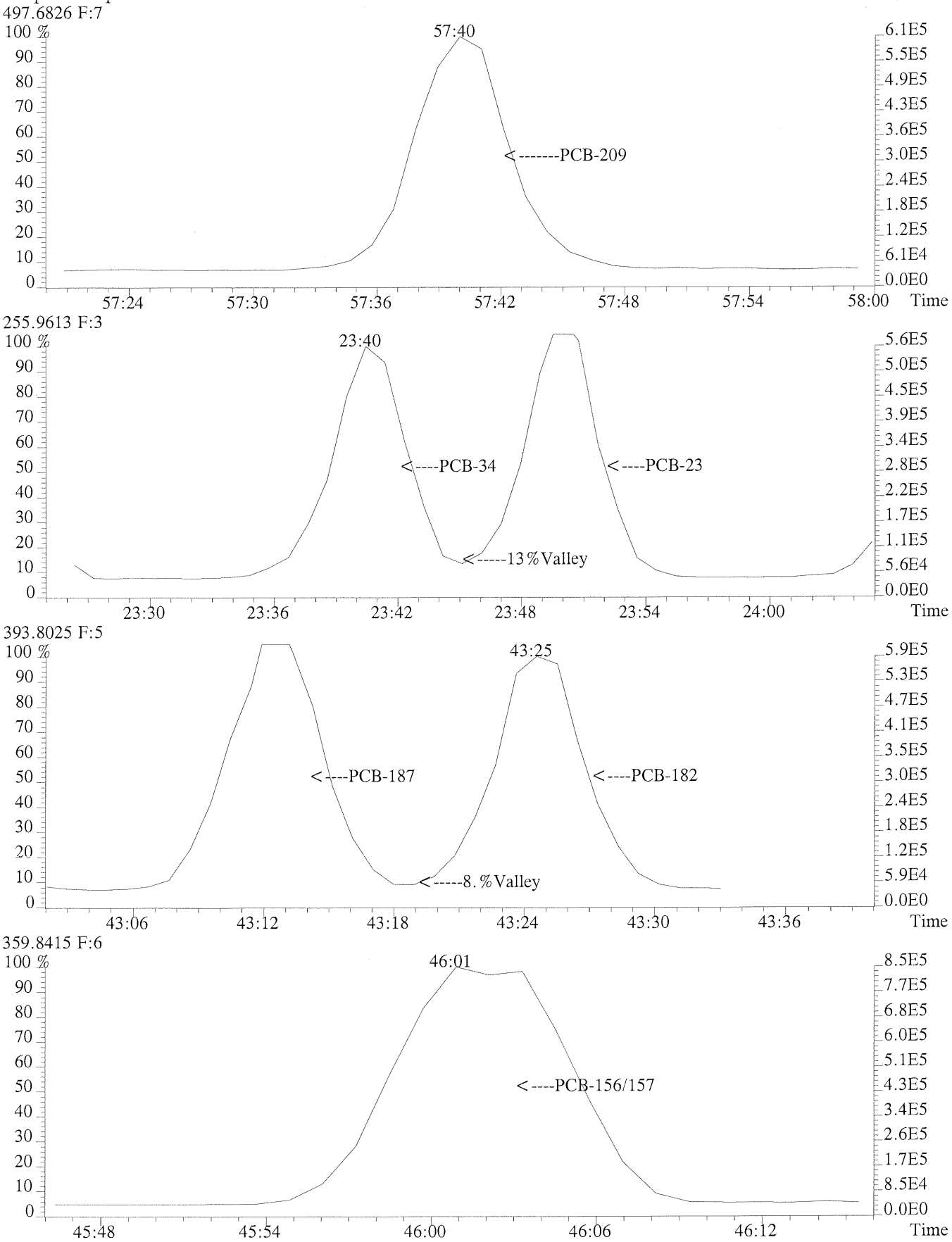
DCCS-209

Lab Name: COLUMBIA ANALYTICAL SERVICES
Lab Code: CAS Case No.: _____ SDG No.:
GC Column: SPB-Octyl ID: 0.25 (mm) Lab File ID: U142052
Date Analyzed: 7-NOV-2011
Time Analyzed: 05:12:59

Retention Time for PCB 209:	(>55 min)	57:40
% Valley between PCB 34 and PCB 23:	(<40%)	13
% Valley between PCB 187 and PCB 182:	(<40%)	8.
Seconds of coelution between PCB 156 and PCB 157:	(<2 sec)	0

Reference: Section 6.9.1.1 Method 1668

File:U142052 #1-310 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
DCCS-209

Run #8 Filename U142052 Samp: 1 Inj: 1 Acquired: 7-NOV-11 05:12:59
Processed: 10-NOV-11 18:37:32 Sample ID: B4-25-1

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	n	1.0712
2	1	PCB-2	15:26	3.964e+03	1.325e+03	2.99	y	n	0.9737
3	1	PCB-3	NotFnd	*	*	*	n	n	1.0363
4	1	PCB-4	NotFnd	*	*	*	n	n	1.1136
5	1	PCB-10	16:03	4.175e+03	2.678e+03	1.56	y	n	1.6837
6	2	PCB-9	17:56	2.517e+03	1.652e+03	1.52	y	n	1.0242
7	2	PCB-7	18:06	2.735e+03	1.793e+03	1.53	y	n	1.1123
8	2	PCB-6	18:20	2.566e+03	1.677e+03	1.53	y	n	1.0424
9	2	PCB-5	18:39	2.539e+03	1.636e+03	1.55	y	n	1.0258
10	2	PCB-8	18:47	2.568e+03	1.735e+03	1.48	y	n	1.0572
11	2	PCB-14	20:26	2.511e+03	1.773e+03	1.42	y	n	1.0525
12	2	PCB-11	21:18	2.595e+03	1.750e+03	1.48	y	n	1.0675
13	2	PCB-12/13	21:37	5.149e+03	3.460e+03	1.49	y	n	1.0575
14	2	PCB-15	NotFnd	*	*	*	n	n	0.9770
15	2	PCB-19	NotFnd	*	*	*	n	n	1.0009
16	2	PCB-18/30	20:57	4.505e+03	4.392e+03	1.03	y	n	1.2250
17	2	PCB-17	21:25	1.938e+03	1.897e+03	1.02	y	n	1.0561
18	2	PCB-27	21:38	2.488e+03	2.456e+03	1.01	y	n	1.3615
19	2	PCB-24	21:45	2.721e+03	2.757e+03	0.99	y	n	1.5084
20	2	PCB-16	21:52	1.468e+03	1.455e+03	1.01	y	n	0.8048
21	2	PCB-32	22:23	2.686e+03	2.619e+03	1.03	y	n	1.4609
22	3	PCB-34	23:40	2.344e+03	2.354e+03	1.00	y	n	1.2938
23	3	PCB-23	23:50	2.517e+03	2.562e+03	0.98	y	n	1.3987
24	3	PCB-26/29	24:10	4.800e+03	4.740e+03	1.01	y	n	1.3136
25	3	PCB-25	24:23	2.610e+03	2.620e+03	1.00	y	n	1.4403
26	3	PCB-31	24:41	2.382e+03	2.329e+03	1.02	y	n	1.2974
27	3	PCB-20/28	25:00	5.630e+03	5.497e+03	1.02	y	n	1.5320
28	3	PCB-21/33	25:11	4.615e+03	4.629e+03	1.00	y	y	1.2729
29	3	PCB-22	25:39	2.270e+03	2.279e+03	1.00	y	n	1.2528
30	3	PCB-36	27:13	2.323e+03	2.228e+03	1.04	y	y	1.2533
31	3	PCB-39	27:35	2.623e+03	2.479e+03	1.06	y	n	1.4050
32	3	PCB-38	28:10	2.207e+03	2.062e+03	1.07	y	n	1.1756
33	3	PCB-35	28:38	2.093e+03	2.043e+03	1.02	y	n	1.1391
34	3	PCB-37	NotFnd	*	*	*	n	n	1.0888
35	2	PCB-54	NotFnd	*	*	*	n	n	1.0020
36	3	PCB-50/53	24:26	6.620e+03	8.764e+03	0.76	y	n	1.1155
37	3	PCB-45/51	25:10	6.408e+03	8.430e+03	0.76	y	y	1.0759
38	3	PCB-46	25:25	2.810e+03	3.571e+03	0.79	y	n	0.9254
39	3	PCB-52	26:51	3.276e+03	4.402e+03	0.74	y	y	1.1134
40	3	PCB-43/73	27:00	7.292e+03	9.538e+03	0.76	y	y	1.2203
41	3	PCB-49/69	27:18	7.496e+03	9.677e+03	0.77	y	n	1.2452
42	3	PCB-48	27:37	3.381e+03	4.429e+03	0.76	y	n	1.1326
43	3	PCB-44/47/65	27:52	1.098e+04	1.415e+04	0.78	y	n	1.2147
44	3	PCB-59/62/75	28:10	1.266e+04	1.676e+04	0.76	y	n	1.4221
45	3	PCB-42	28:23	2.960e+03	3.976e+03	0.74	y	n	1.0059
46	3	PCB-40/41/71	28:52	9.849e+03	1.278e+04	0.77	y	y	1.0940
47	3	PCB-64	29:06	4.315e+03	5.763e+03	0.75	y	n	1.4615
48	3	PCB-72	29:57	4.264e+03	5.699e+03	0.75	y	n	1.4449
49	3	PCB-68	30:14	4.798e+03	6.212e+03	0.77	y	n	1.5967
50	3	PCB-57	30:39	4.079e+03	5.274e+03	0.77	y	n	1.3563

3	PCB-58	30:53	4.366e+03	5.635e+03	0.77	y	n	1.4503
3	PCB-67	31:04	4.382e+03	5.623e+03	0.78	y	n	1.4509
3	PCB-63	31:20	4.076e+03	5.296e+03	0.77	y	n	1.3590
3	PCB-61/70/74/76	31:40	1.754e+04	2.255e+04	0.78	y	y	1.4534
3	PCB-66	32:00	4.247e+03	5.364e+03	0.79	y	n	1.3938
3	PCB-55	32:09	4.116e+03	5.325e+03	0.77	y	n	1.3691
4	PCB-56	32:40	3.575e+03	4.588e+03	0.78	y	n	1.1839
4	PCB-60	32:54	3.459e+03	4.425e+03	0.78	y	n	1.1433
4	PCB-80	33:19	3.665e+03	4.673e+03	0.78	y	n	1.2092
4	PCB-79	34:50	3.524e+03	4.598e+03	0.77	y	n	1.1778
4	PCB-78	35:24	3.106e+03	3.936e+03	0.79	y	n	1.0212
4	PCB-81	NotFnd	*	*	*	n	n	1.0336
4	PCB-77	NotFnd	*	*	*	n	n	0.9953
3	PCB-104	NotFnd	*	*	*	n	n	1.0300
3	PCB-96	28:10	5.388e+03	3.457e+03	1.56	y	n	1.3990
3	PCB-103	30:07	4.578e+03	2.937e+03	1.56	y	n	1.1888
3	PCB-94	30:20	4.073e+03	2.569e+03	1.59	y	n	1.0505
3	PCB-95	30:47	4.107e+03	2.639e+03	1.56	y	n	1.0671
3	PCB-93/100	31:01	8.543e+03	5.310e+03	1.61	y	n	1.0956
3	PCB-98/102	31:09	8.788e+03	5.547e+03	1.58	y	y	1.1337
3	PCB-88/91	31:39	8.187e+03	5.129e+03	1.60	y	y	1.0531
3	PCB-84	31:52	3.592e+03	2.257e+03	1.59	y	n	0.9251
3	PCB-89	32:22	3.444e+03	2.197e+03	1.57	y	n	0.8923
4	PCB-121	32:47	5.329e+03	3.369e+03	1.58	y	n	1.3759
4	PCB-92	33:09	3.652e+03	2.379e+03	1.54	y	n	0.9539
4	PCB-90/101/113	33:44	1.262e+04	8.120e+03	1.55	y	n	1.0935
4	PCB-83/99	34:20	7.790e+03	4.888e+03	1.59	y	y	1.0026
4	PCB-112	34:26	4.787e+03	3.189e+03	1.50	y	y	1.2617
4	PCB-86/87/97/109/119/125	34:49	2.591e+04	1.676e+04	1.55	y	y	1.1249
4	PCB-117	35:28	4.904e+03	3.215e+03	1.53	y	n	1.2842
4	PCB-85/116	35:33	8.643e+03	5.554e+03	1.56	y	n	1.1228
4	PCB-110/115	35:43	1.021e+04	6.579e+03	1.55	y	y	1.3277
4	PCB-82	36:02	3.044e+03	2.057e+03	1.48	y	n	0.8069
4	PCB-111	36:27	5.177e+03	3.339e+03	1.55	y	n	1.3471
4	PCB-120	36:54	4.957e+03	3.139e+03	1.58	y	n	1.280[illegible]
5	PCB-108/124	38:02	6.906e+03	4.436e+03	1.56	y	n	0.897[illegible]
5	PCB-107	38:17	3.969e+03	2.507e+03	1.58	y	n	1.0243
5	PCB-123	NotFnd	*	*	*	n	n	1.0180
5	PCB-106	38:32	3.491e+03	2.237e+03	1.56	y	n	0.9060
5	PCB-118	NotFnd	*	*	*	n	n	0.9968
5	PCB-122	39:04	3.317e+03	2.154e+03	1.54	y	n	0.8654
5	PCB-114	NotFnd	*	*	*	n	n	0.9914
5	PCB-105	NotFnd	*	*	*	n	n	1.0109
5	PCB-127	41:23	3.408e+03	2.198e+03	1.55	y	n	0.8867
5	PCB-126	NotFnd	*	*	*	n	n	0.9601
4	PCB-155	NotFnd	*	*	*	n	n	0.9884
4	PCB-152	33:42	4.465e+03	3.747e+03	1.19	y	n	1.7182
4	PCB-150	33:53	4.949e+03	4.112e+03	1.20	y	n	1.8958
4	PCB-136	34:14	4.347e+03	3.585e+03	1.21	y	n	1.6596
4	PCB-145	34:32	4.627e+03	3.882e+03	1.19	y	n	1.7801
4	PCB-148	36:03	3.334e+03	2.706e+03	1.23	y	n	1.2630
4	PCB-135/151	36:41	6.759e+03	5.535e+03	1.22	y	n	1.2857
4	PCB-154	36:54	3.818e+03	3.187e+03	1.20	y	n	1.465[illegible]
4	PCB-144	37:13	3.478e+03	2.742e+03	1.27	y	n	1.301[illegible]
5	PCB-147/149	37:34	6.569e+03	5.216e+03	1.26	y	n	1.2528
5	PCB-134	37:47	2.596e+03	2.100e+03	1.24	y	n	0.9825
5	PCB-143	37:52	2.812e+03	2.349e+03	1.20	y	n	1.0798

108	5	PCB-139/140	38:11	6.383e+03	5.178e+03	1.23	y	n	1.2093
109	5	PCB-131	38:22	2.706e+03	2.207e+03	1.23	y	n	1.0281
110	5	PCB-142	38:32	2.699e+03	2.139e+03	1.26	y	n	1.0121
111	5	PCB-132	38:50	2.830e+03	2.327e+03	1.22	y	n	1.0789
112	5	PCB-133	39:20	2.796e+03	2.193e+03	1.28	y	n	1.0438
113	5	PCB-165	39:45	3.735e+03	3.064e+03	1.22	y	n	1.4224
114	5	PCB-146	39:59	3.217e+03	2.624e+03	1.23	y	n	1.2222
115	5	PCB-161	40:07	3.646e+03	2.929e+03	1.24	y	n	1.3755
116	5	PCB-153/168	40:38	7.108e+03	5.760e+03	1.23	y	n	1.3461
117	5	PCB-141	40:48	2.781e+03	2.303e+03	1.21	y	n	1.065[illegible]
118	5	PCB-130	41:12	2.419e+03	2.037e+03	1.19	y	n	0.932[illegible]
119	5	PCB-137	41:26	2.978e+03	2.411e+03	1.24	y	n	1.127[illegible]
120	5	PCB-164	41:33	3.615e+03	2.961e+03	1.22	y	n	1.375[illegible]
121	5	PCB-129/138/163	41:52	9.587e+03	7.518e+03	1.28	y	n	1.1929
122	5	PCB-160	42:01	3.797e+03	3.312e+03	1.15	y	n	1.4875
123	5	PCB-158	42:15	4.090e+03	3.324e+03	1.23	y	n	1.5512
124	5	PCB-128/166	43:06	6.606e+03	5.375e+03	1.23	y	n	1.2534
125	6	PCB-159	44:07	2.582e+03	2.042e+03	1.26	y	n	0.9675
126	6	PCB-162	44:24	2.695e+03	2.232e+03	1.21	y	n	1.0306
127	6	PCB-167	NotFnd	*	*	*	n	n	1.0081
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.0060
129	6	PCB-169	NotFnd	*	*	*	n	n	0.9915
130	5	PCB-188	NotFnd	*	*	*	n	n	0.9902
131	5	PCB-179	39:35	3.687e+03	3.672e+03	1.00	y	n	1.3939
132	5	PCB-184	40:06	4.118e+03	3.959e+03	1.04	y	n	1.5298
133	5	PCB-176	40:28	3.502e+03	3.619e+03	0.97	y	n	1.3489
134	5	PCB-186	40:55	3.762e+03	3.632e+03	1.04	y	n	1.4005
135	5	PCB-178	42:18	2.716e+03	2.628e+03	1.03	y	n	1.012[illegible]
136	5	PCB-175	42:56	2.798e+03	2.778e+03	1.01	y	n	1.056[illegible]
137	5	PCB-187	43:12	3.273e+03	3.164e+03	1.03	y	n	1.215[illegible]
138	5	PCB-182	43:25	2.407e+03	2.389e+03	1.01	y	n	0.908[illegible]
139	6	PCB-183	43:50	1.916e+03	1.870e+03	1.02	y	y	0.7171
140	6	PCB-185	43:55	2.007e+03	1.996e+03	1.01	y	y	0.7581
141	6	PCB-174	44:05	1.820e+03	1.799e+03	1.01	y	y	0.6855
142	6	PCB-177	44:30	1.637e+03	1.652e+03	0.99	y	n	0.6230
143	6	PCB-181	44:54	1.932e+03	1.936e+03	1.00	y	y	0.7327
144	6	PCB-171/173	45:08	3.327e+03	3.243e+03	1.03	y	y	0.6222
145	6	PCB-172	46:46	1.537e+03	1.586e+03	0.97	y	n	0.5915
146	6	PCB-192	47:03	2.173e+03	2.142e+03	1.01	y	n	0.8174
147	6	PCB-180/193	47:22	4.020e+03	4.012e+03	1.00	y	n	0.7607
148	6	PCB-191	47:46	2.057e+03	2.153e+03	0.96	y	n	0.7975
149	6	PCB-170	48:41	1.464e+03	1.534e+03	0.95	y	n	0.5679
150	6	PCB-190	49:12	1.918e+03	2.000e+03	0.96	y	y	0.7422
151	6	PCB-189	NotFnd	*	*	*	n	n	0.8632
152	6	PCB-202	NotFnd	*	*	*	n	n	0.863[illegible]
153	6	PCB-201	45:33	3.280e+03	3.799e+03	0.86	y	n	1.226[illegible]
154	6	PCB-204	46:13	3.234e+03	3.648e+03	0.89	y	n	1.192[illegible]
155	6	PCB-197	46:28	3.375e+03	3.825e+03	0.88	y	n	1.2471
156	6	PCB-200	46:34	3.240e+03	3.816e+03	0.85	y	n	1.2223
157	6	PCB-198/199	49:21	4.426e+03	5.159e+03	0.86	y	n	0.8301
158	6	PCB-196	50:01	2.179e+03	2.465e+03	0.88	y	n	0.8044
159	6	PCB-203	50:13	2.479e+03	2.946e+03	0.84	y	n	0.9397
160	6	PCB-195	51:32	1.924e+03	2.250e+03	0.86	y	n	0.7230
161	6	PCB-194	53:52	1.874e+03	2.124e+03	0.88	y	n	0.6925
162	6	PCB-205	NotFnd	*	*	*	n	n	0.8885
163	6	PCB-208	NotFnd	*	*	*	n	n	0.8804
164	6	PCB-207	52:13	2.132e+03	2.705e+03	0.79	y	n	1.1463

165	7	PCB-206	NotFnd	*	*	*	n	n	0.9310
166	7	PCB-209	NotFnd	*	*	*	n	n	0.8977
167	1	PCB-1L	13:21	1.624e+04	5.372e+03	3.02	y	n	1.2197
168	1	PCB-3L	15:37	1.651e+04	5.338e+03	3.09	y	n	1.1732
169	1	PCB-4L	15:52	9.276e+03	6.164e+03	1.50	y	n	0.8031
170	2	PCB-15L	21:54	1.044e+04	6.687e+03	1.56	y	n	0.9620
171	2	PCB-19L	19:03	6.719e+03	6.267e+03	1.07	y	n	0.6361
172	3	PCB-37L	29:02	8.226e+03	7.840e+03	1.05	y	n	1.1440
173	2	PCB-54L	22:11	7.032e+03	8.895e+03	0.79	y	n	1.1399
174	4	PCB-81L	35:49	5.383e+03	7.157e+03	0.75	y	n	0.9468
175	4	PCB-77L	36:23	5.733e+03	7.173e+03	0.80	y	n	0.9489
176	3	PCB-104L	27:46	1.050e+04	6.788e+03	1.55	y	n	1.3966
177	5	PCB-123L	38:23	6.678e+03	4.233e+03	1.58	y	n	1.0295
178	5	PCB-118L	38:43	6.899e+03	4.418e+03	1.56	y	n	1.0766
179	5	PCB-114L	39:15	6.802e+03	4.254e+03	1.60	y	n	1.0747
180	5	PCB-105L	39:53	6.475e+03	4.154e+03	1.56	y	n	1.0133
181	5	PCB-126L	42:59	6.323e+03	4.057e+03	1.56	y	n	0.8978
182	4	PCB-155L	33:29	9.459e+03	7.642e+03	1.24	y	n	1.6371
183	6	PCB-167L	44:51	4.467e+03	3.427e+03	1.30	y	n	0.8829
184	6	PCB-156/157L	46:00	8.760e+03	6.976e+03	1.26	y	n	0.8157
185	6	PCB-169L	49:15	3.902e+03	3.164e+03	1.23	y	n	0.7161
186	5	PCB-188L	39:13	7.259e+03	6.870e+03	1.06	y	n	2.3578
187	6	PCB-189L	51:45	3.626e+03	3.363e+03	1.08	y	n	1.3072
188	6	PCB-202L	44:36	4.394e+03	4.982e+03	0.88	y	n	1.8043
189	6	PCB-205L	54:19	2.815e+03	3.204e+03	0.88	y	n	1.3631
190	6	PCB-208L	51:16	2.963e+03	3.723e+03	0.80	y	n	1.3370
191	7	PCB-206L	56:03	1.995e+03	2.572e+03	0.78	y	n	0.9978
192	7	PCB-209L	57:39	2.813e+03	2.366e+03	1.19	y	n	1.5625
193	3	PCB-28L	NotFnd	*	*	*	n	n	1.3869
194	4	PCB-111L	NotFnd	*	*	*	n	n	1.2384
195	5	PCB-178L	NotFnd	*	*	*	n	n	0.9527
196	2	PCB-9L	NotFnd	*	*	*	n	n	-
197	3	PCB-52L	NotFnd	*	*	*	n	n	-
198	4	PCB-101L	NotFnd	*	*	*	n	n	-
199	5	PCB-138L	NotFnd	*	*	*	n	n	-
200	6	PCB-194L	NotFnd	*	*	*	n	n	-

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
DCCS-209

Run #8 Filename U142052#1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 05:12:59

Processed: 10-NOV-11 18:37:32 LAB. ID: B4-25-1

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	3.08e+03	*	*	3.78e+03	*
2	PCB-2	9.64e+05	3.08e+03	3.1e+02	3.13e+05	3.78e+03	8.3e+01
3	PCB-3	*	3.08e+03	*	*	3.78e+03	*
4	PCB-4	*	2.44e+03	*	*	1.19e+04	*
5	PCB-10	9.50e+05	2.44e+03	3.9e+02	5.98e+05	1.19e+04	5.0e+01
6	PCB-9	5.93e+05	2.14e+03	2.8e+02	3.87e+05	8.57e+03	4.5e+01
7	PCB-7	6.36e+05	2.14e+03	3.0e+02	4.20e+05	8.57e+03	4.9e+01
8	PCB-6	5.93e+05	2.14e+03	2.8e+02	3.93e+05	8.57e+03	4.6e+01
9	PCB-5	5.77e+05	2.14e+03	2.7e+02	3.70e+05	8.57e+03	4.3e+01
10	PCB-8	5.90e+05	2.14e+03	2.8e+02	3.96e+05	8.57e+03	4.6e+01
11	PCB-14	5.42e+05	2.14e+03	2.5e+02	3.80e+05	8.57e+03	4.4e+01
12	PCB-11	5.29e+05	2.14e+03	2.5e+02	3.61e+05	8.57e+03	4.2e+01
13	PCB-12/13	8.62e+05	2.14e+03	4.0e+02	5.66e+05	8.57e+03	6.6e+01
14	PCB-15	*	2.14e+03	*	*	8.57e+03	*
15	PCB-19	*	1.84e+03	*	*	1.54e+03	*
16	PCB-18/30	8.72e+05	1.84e+03	4.7e+02	8.53e+05	1.54e+03	5.6e+02
17	PCB-17	4.30e+05	1.84e+03	2.3e+02	4.13e+05	1.54e+03	2.7e+02
18	PCB-27	5.62e+05	1.84e+03	3.0e+02	5.46e+05	1.54e+03	3.6e+02
19	PCB-24	5.66e+05	1.84e+03	3.1e+02	5.70e+05	1.54e+03	3.7e+02
20	PCB-16	3.62e+05	1.84e+03	2.0e+02	3.60e+05	1.54e+03	2.3e+02
21	PCB-32	5.70e+05	1.84e+03	3.1e+02	5.69e+05	1.54e+03	3.7e+02
22	PCB-34	4.67e+05	2.56e+03	1.8e+02	4.60e+05	4.26e+03	1.1e+02
23	PCB-23	5.22e+05	2.56e+03	2.0e+02	5.01e+05	4.26e+03	1.2e+02
24	PCB-26/29	7.99e+05	2.56e+03	3.1e+02	7.83e+05	4.26e+03	1.8e+02
25	PCB-25	4.98e+05	2.56e+03	1.9e+02	4.88e+05	4.26e+03	1.1e+02
26	PCB-31	4.62e+05	2.56e+03	1.8e+02	4.56e+05	4.26e+03	1.1e+02
27	PCB-20/28	9.80e+05	2.56e+03	3.8e+02	9.43e+05	4.26e+03	2.2e+02
28	PCB-21/33	5.29e+05	2.56e+03	2.1e+02	5.16e+05	4.26e+03	1.2e+02
29	PCB-22	4.42e+05	2.56e+03	1.7e+02	4.48e+05	4.26e+03	1.1e+02
30	PCB-36	4.40e+05	2.56e+03	1.7e+02	4.30e+05	4.26e+03	1.0e+02
31	PCB-39	5.02e+05	2.56e+03	2.0e+02	4.65e+05	4.26e+03	1.1e+02
32	PCB-38	4.26e+05	2.56e+03	1.7e+02	3.94e+05	4.26e+03	9.3e+01
33	PCB-35	4.06e+05	2.56e+03	1.6e+02	3.92e+05	4.26e+03	9.2e+01
34	PCB-37	*	2.56e+03	*	*	4.26e+03	*
35	PCB-54	*	1.03e+03	*	*	1.05e+03	*
36	PCB-50/53	1.11e+06	1.24e+03	9.0e+02	1.50e+06	1.21e+03	1.2e+03
37	PCB-45/51	6.99e+05	1.24e+03	5.6e+02	9.17e+05	1.21e+03	7.6e+02
38	PCB-46	5.37e+05	1.24e+03	4.3e+02	6.96e+05	1.21e+03	5.8e+02
39	PCB-52	6.50e+05	1.24e+03	5.2e+02	8.64e+05	1.21e+03	7.2e+02
40	PCB-43/73	8.71e+05	1.24e+03	7.0e+02	1.11e+06	1.21e+03	9.2e+02
41	PCB-49/69	1.05e+06	1.24e+03	8.4e+02	1.35e+06	1.21e+03	1.1e+03
42	PCB-48	6.62e+05	1.24e+03	5.3e+02	8.44e+05	1.21e+03	7.0e+02
43	PCB-44/47/65	1.73e+06	1.24e+03	1.4e+03	2.19e+06	1.21e+03	1.8e+03
44	PCB-59/62/75	1.73e+06	1.24e+03	1.4e+03	2.30e+06	1.21e+03	1.9e+03
45	PCB-42	5.62e+05	1.24e+03	4.5e+02	7.56e+05	1.21e+03	6.3e+02
46	PCB-40/41/71	1.32e+06	1.24e+03	1.1e+03	1.70e+06	1.21e+03	1.4e+03
47	PCB-64	8.13e+05	1.24e+03	6.5e+02	1.10e+06	1.21e+03	9.1e+02

48	PCB-72	8.09e+05	1.24e+03	6.5e+02	1.08e+06	1.21e+03	8.9e+02
49	PCB-68	8.98e+05	1.24e+03	7.2e+02	1.18e+06	1.21e+03	9.7e+02
50	PCB-57	8.03e+05	1.24e+03	6.5e+02	1.03e+06	1.21e+03	8.5e+02
51	PCB-58	8.32e+05	1.24e+03	6.7e+02	1.07e+06	1.21e+03	8.9e+02
52	PCB-67	8.18e+05	1.24e+03	6.6e+02	1.05e+06	1.21e+03	8.7e+02
53	PCB-63	7.84e+05	1.24e+03	6.3e+02	1.02e+06	1.21e+03	8.5e+02
54	PCB-61/70/74/76	1.71e+06	1.24e+03	1.4e+03	2.23e+06	1.21e+03	1.8e+03
55	PCB-66	8.11e+05	1.24e+03	6.5e+02	1.03e+06	1.21e+03	8.5e+02
56	PCB-55	7.88e+05	1.24e+03	6.3e+02	1.02e+06	1.21e+03	8.4e+02
57	PCB-56	6.79e+05	2.85e+03	2.4e+02	8.76e+05	3.61e+03	2.4e+02
58	PCB-60	6.61e+05	2.85e+03	2.3e+02	8.38e+05	3.61e+03	2.3e+02
59	PCB-80	6.81e+05	2.85e+03	2.4e+02	8.61e+05	3.61e+03	2.4e+02
60	PCB-79	6.41e+05	2.85e+03	2.2e+02	8.41e+05	3.61e+03	2.3e+02
61	PCB-78	5.81e+05	2.85e+03	2.0e+02	7.12e+05	3.61e+03	2.0e+02
62	PCB-81	*	2.85e+03	*	*	3.61e+03	*
63	PCB-77	*	2.85e+03	*	*	3.61e+03	*
64	PCB-104	*	9.56e+02	*	*	9.32e+02	*
65	PCB-96	1.01e+06	9.56e+02	1.1e+03	6.60e+05	9.32e+02	7.1e+02
66	PCB-103	8.59e+05	9.56e+02	9.0e+02	5.51e+05	9.32e+02	5.9e+02
67	PCB-94	7.82e+05	9.56e+02	8.2e+02	4.96e+05	9.32e+02	5.3e+02
68	PCB-95	7.73e+05	9.56e+02	8.1e+02	5.04e+05	9.32e+02	5.4e+02
69	PCB-93/100	1.53e+06	9.56e+02	1.6e+03	9.54e+05	9.32e+02	1.0e+03
70	PCB-98/102	9.38e+05	9.56e+02	9.8e+02	5.88e+05	9.32e+02	6.3e+02
71	PCB-88/91	8.01e+05	9.56e+02	8.4e+02	5.08e+05	9.32e+02	5.5e+02
72	PCB-84	6.67e+05	9.56e+02	7.0e+02	4.28e+05	9.32e+02	4.6e+02
73	PCB-89	7.08e+05	9.56e+02	7.4e+02	4.32e+05	9.32e+02	4.6e+02
74	PCB-121	1.01e+06	9.48e+02	1.1e+03	6.45e+05	1.71e+03	3.8e+02
75	PCB-92	6.80e+05	9.48e+02	7.2e+02	4.50e+05	1.71e+03	2.6e+02
76	PCB-90/101/113	1.68e+06	9.48e+02	1.8e+03	1.09e+06	1.71e+03	6.4e+02
77	PCB-83/99	8.43e+05	9.48e+02	8.9e+02	5.16e+05	1.71e+03	3.0e+02
78	PCB-112	8.97e+05	9.48e+02	9.5e+02	5.76e+05	1.71e+03	3.4e+02
79	CB-86/87/97/109/119/125	2.71e+06	9.48e+02	2.9e+03	1.75e+06	1.71e+03	1.0e+03
80	PCB-117	1.01e+06	9.48e+02	1.1e+03	6.54e+05	1.71e+03	3.8e+02
81	PCB-85/116	1.59e+06	9.48e+02	1.7e+03	1.03e+06	1.71e+03	6.0e+02
82	PCB-110/115	1.03e+06	9.48e+02	1.1e+03	6.62e+05	1.71e+03	3.9e+02
83	PCB-82	5.58e+05	9.48e+02	5.9e+02	3.71e+05	1.71e+03	2.2e+02
84	PCB-111	9.43e+05	9.48e+02	9.9e+02	6.17e+05	1.71e+03	3.6e+02
85	PCB-120	8.91e+05	9.48e+02	9.4e+02	5.80e+05	1.71e+03	3.4e+02
86	PCB-108/124	1.32e+06	2.79e+04	4.7e+01	8.27e+05	2.00e+04	4.1e+01
87	PCB-107	7.00e+05	2.79e+04	2.5e+01	4.45e+05	2.00e+04	2.2e+01
88	PCB-123	*	2.79e+04	*	*	2.00e+04	*
89	PCB-106	6.48e+05	2.79e+04	2.3e+01	4.19e+05	2.00e+04	2.1e+01
90	PCB-118	*	2.79e+04	*	*	2.00e+04	*
91	PCB-122	6.01e+05	2.79e+04	2.2e+01	3.91e+05	2.00e+04	2.0e+01
92	PCB-114	*	2.79e+04	*	*	2.00e+04	*
93	PCB-105	*	2.79e+04	*	*	2.00e+04	*
94	PCB-127	6.21e+05	2.79e+04	2.2e+01	4.00e+05	2.00e+04	2.0e+01
95	PCB-126	*	2.79e+04	*	*	2.00e+04	*
96	PCB-155	*	1.22e+03	*	*	7.44e+02	*
97	PCB-152	8.44e+05	1.22e+03	6.9e+02	6.89e+05	7.44e+02	9.3e+02
98	PCB-150	8.91e+05	1.22e+03	7.3e+02	7.68e+05	7.44e+02	1.0e+03
99	PCB-136	7.99e+05	1.22e+03	6.5e+02	6.53e+05	7.44e+02	8.8e+02
100	PCB-145	8.48e+05	1.22e+03	6.9e+02	7.12e+05	7.44e+02	9.6e+02
101	PCB-148	6.14e+05	1.22e+03	5.0e+02	4.99e+05	7.44e+02	6.7e+02
102	PCB-135/151	7.49e+05	1.22e+03	6.1e+02	6.11e+05	7.44e+02	8.2e+02
103	PCB-154	7.03e+05	1.22e+03	5.8e+02	5.89e+05	7.44e+02	7.9e+02
104	PCB-144	6.39e+05	1.22e+03	5.2e+02	4.98e+05	7.44e+02	6.7e+02

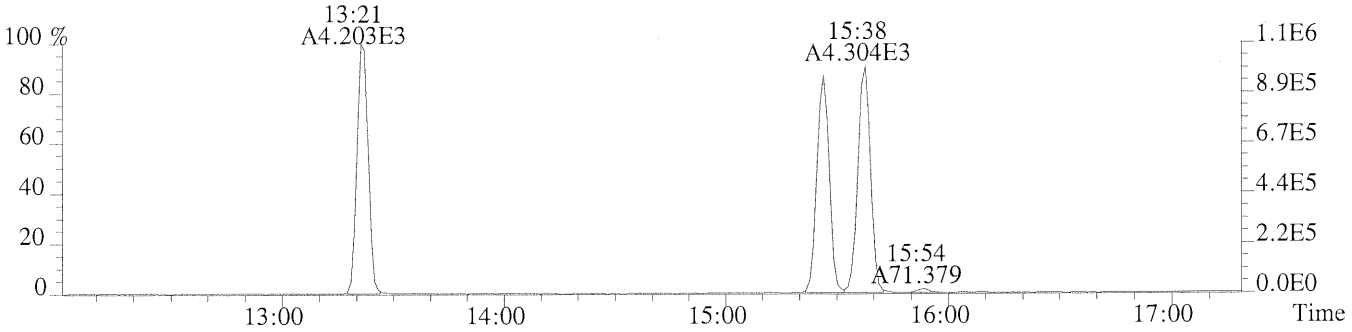
Run #8 Filename U142052#1 Samp: 1 Acquired: 7-NOV-11 05:12:59

105	PCB-147/149	1.19e+06	2.06e+03	5.8e+02	9.33e+05	2.75e+03	3.4e+02
106	PCB-134	4.91e+05	2.06e+03	2.4e+02	3.91e+05	2.75e+03	1.4e+02
107	PCB-143	5.02e+05	2.06e+03	2.4e+02	4.27e+05	2.75e+03	1.6e+02
108	PCB-139/140	1.08e+06	2.06e+03	5.2e+02	8.66e+05	2.75e+03	3.1e+02
109	PCB-131	4.84e+05	2.06e+03	2.4e+02	4.08e+05	2.75e+03	1.5e+02
110	PCB-142	4.79e+05	2.06e+03	2.3e+02	3.79e+05	2.75e+03	1.4e+02
111	PCB-132	5.02e+05	2.06e+03	2.4e+02	4.14e+05	2.75e+03	1.5e+02
112	PCB-133	4.84e+05	2.06e+03	2.4e+02	3.87e+05	2.75e+03	1.4e+02
113	PCB-165	6.72e+05	2.06e+03	3.3e+02	5.34e+05	2.75e+03	1.9e+02
114	PCB-146	5.63e+05	2.06e+03	2.7e+02	4.60e+05	2.75e+03	1.7e+02
115	PCB-161	6.61e+05	2.06e+03	3.2e+02	5.27e+05	2.75e+03	1.9e+02
116	PCB-153/168	1.01e+06	2.06e+03	4.9e+02	8.21e+05	2.75e+03	3.0e+02
117	PCB-141	5.13e+05	2.06e+03	2.5e+02	4.02e+05	2.75e+03	1.5e+02
118	PCB-130	4.48e+05	2.06e+03	2.2e+02	3.69e+05	2.75e+03	1.3e+02
119	PCB-137	5.44e+05	2.06e+03	2.6e+02	4.25e+05	2.75e+03	1.5e+02
120	PCB-164	6.33e+05	2.06e+03	3.1e+02	5.27e+05	2.75e+03	1.9e+02
121	PCB-129/138/163	1.35e+06	2.06e+03	6.6e+02	1.14e+06	2.75e+03	4.1e+02
122	PCB-160	7.06e+05	2.06e+03	3.4e+02	5.68e+05	2.75e+03	2.1e+02
123	PCB-158	6.97e+05	2.06e+03	3.4e+02	5.58e+05	2.75e+03	2.0e+02
124	PCB-128/166	1.04e+06	2.06e+03	5.0e+02	8.48e+05	2.75e+03	3.1e+02
125	PCB-159	5.55e+05	2.57e+03	2.2e+02	4.37e+05	1.63e+03	2.7e+02
126	PCB-162	5.65e+05	2.57e+03	2.2e+02	4.80e+05	1.63e+03	2.9e+02
127	PCB-167	*	2.57e+03	*	*	1.63e+03	*
128	PCB-156/157	*	2.57e+03	*	*	1.63e+03	*
129	PCB-169	*	2.57e+03	*	*	1.63e+03	*
130	PCB-188	*	1.43e+03	*	*	9.84e+02	*
131	PCB-179	6.34e+05	1.43e+03	4.4e+02	6.31e+05	9.84e+02	6.4e+02
132	PCB-184	7.23e+05	1.43e+03	5.1e+02	6.90e+05	9.84e+02	7.0e+02
133	PCB-176	6.12e+05	1.43e+03	4.3e+02	6.51e+05	9.84e+02	6.6e+02
134	PCB-186	6.65e+05	1.43e+03	4.7e+02	6.52e+05	9.84e+02	6.6e+02
135	PCB-178	4.79e+05	1.43e+03	3.4e+02	4.78e+05	9.84e+02	4.9e+02
136	PCB-175	5.16e+05	1.43e+03	3.6e+02	4.83e+05	9.84e+02	4.9e+02
137	PCB-187	5.73e+05	1.43e+03	4.0e+02	5.60e+05	9.84e+02	5.7e+02
138	PCB-182	4.87e+05	1.43e+03	3.4e+02	4.61e+05	9.84e+02	4.7e+02
139	PCB-183	4.59e+05	1.50e+03	3.1e+02	4.35e+05	1.41e+03	3.1e+02
140	PCB-185	4.21e+05	1.50e+03	2.8e+02	4.23e+05	1.41e+03	3.0e+02
141	PCB-174	3.75e+05	1.50e+03	2.5e+02	3.77e+05	1.41e+03	2.7e+02
142	PCB-177	3.45e+05	1.50e+03	2.3e+02	3.54e+05	1.41e+03	2.5e+02
143	PCB-181	4.31e+05	1.50e+03	2.9e+02	4.14e+05	1.41e+03	2.9e+02
144	PCB-171/173	6.51e+05	1.50e+03	4.3e+02	6.35e+05	1.41e+03	4.5e+02
145	PCB-172	3.30e+05	1.50e+03	2.2e+02	3.40e+05	1.41e+03	2.4e+02
146	PCB-192	4.73e+05	1.50e+03	3.2e+02	4.71e+05	1.41e+03	3.3e+02
147	PCB-180/193	6.06e+05	1.50e+03	4.0e+02	6.10e+05	1.41e+03	4.3e+02
148	PCB-191	4.42e+05	1.50e+03	2.9e+02	4.56e+05	1.41e+03	3.2e+02
149	PCB-170	3.02e+05	1.50e+03	2.0e+02	3.19e+05	1.41e+03	2.3e+02
150	PCB-190	4.02e+05	1.50e+03	2.7e+02	4.12e+05	1.41e+03	2.9e+02
151	PCB-189	*	1.50e+03	*	*	1.41e+03	*
152	PCB-202	*	1.69e+03	*	*	1.55e+03	*
153	PCB-201	7.14e+05	1.69e+03	4.2e+02	8.01e+05	1.55e+03	5.2e+02
154	PCB-204	6.94e+05	1.69e+03	4.1e+02	7.72e+05	1.55e+03	5.0e+02
155	PCB-197	7.59e+05	1.69e+03	4.5e+02	8.45e+05	1.55e+03	5.4e+02
156	PCB-200	6.62e+05	1.69e+03	3.9e+02	7.80e+05	1.55e+03	5.0e+02
157	PCB-198/199	6.98e+05	1.69e+03	4.1e+02	8.27e+05	1.55e+03	5.3e+02
158	PCB-196	4.52e+05	1.69e+03	2.7e+02	5.16e+05	1.55e+03	3.3e+02
159	PCB-203	5.14e+05	1.69e+03	3.0e+02	6.06e+05	1.55e+03	3.9e+02
160	PCB-195	4.06e+05	1.69e+03	2.4e+02	4.80e+05	1.55e+03	3.1e+02
161	PCB-194	3.97e+05	1.69e+03	2.3e+02	4.42e+05	1.55e+03	2.8e+02
162	PCB-205	*	1.69e+03	*	*	1.55e+03	*

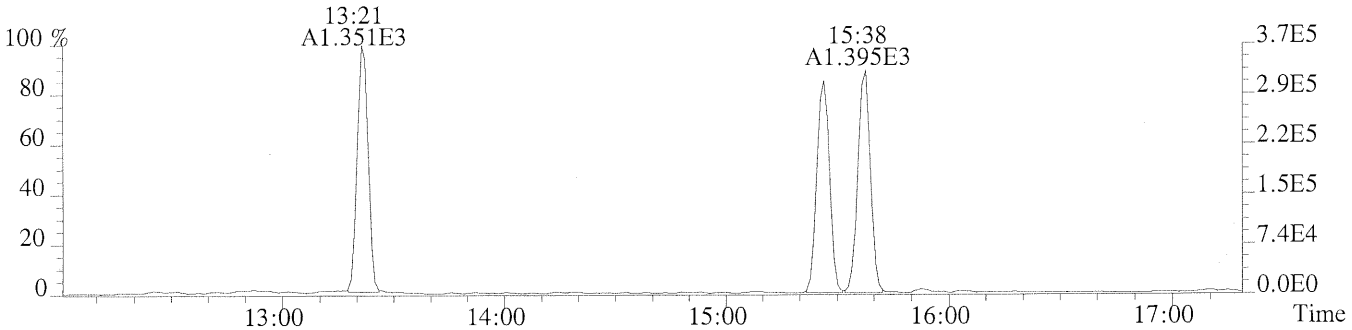
163	PCB-208	*	1.34e+03	*	*	1.14e+03	*
164	PCB-207	4.47e+05	1.34e+03	3.3e+02	5.55e+05	1.14e+03	4.8e+02
165	PCB-206	*	2.65e+03	*	*	1.61e+03	*
166	PCB-209	*	1.57e+03	*	*	1.70e+03	*
167	PCB-1L	4.35e+06	4.19e+03	1.0e+03	1.42e+06	1.25e+04	1.1e+02
168	PCB-3L	3.88e+06	4.19e+03	9.3e+02	1.26e+06	1.25e+04	1.0e+02
169	PCB-4L	2.15e+06	2.55e+03	8.4e+02	1.42e+06	1.68e+03	8.4e+02
170	PCB-15L	2.27e+06	1.44e+03	1.6e+03	1.47e+06	1.56e+03	9.4e+02
171	PCB-19L	1.53e+06	1.73e+04	8.9e+01	1.45e+06	1.11e+04	1.3e+02
172	PCB-37L	1.57e+06	1.69e+04	9.3e+01	1.48e+06	8.42e+03	1.8e+02
173	PCB-54L	1.51e+06	2.07e+03	7.3e+02	1.92e+06	9.16e+02	2.1e+03
174	PCB-81L	9.82e+05	2.20e+03	4.5e+02	1.32e+06	1.01e+03	1.3e+03
175	PCB-77L	1.07e+06	2.20e+03	4.9e+02	1.31e+06	1.01e+03	1.3e+03
176	PCB-104L	2.03e+06	1.42e+03	1.4e+03	1.35e+06	6.96e+02	1.9e+03
177	PCB-123L	1.19e+06	1.52e+03	7.8e+02	7.54e+05	1.42e+03	5.3e+02
178	PCB-118L	1.25e+06	1.52e+03	8.2e+02	8.05e+05	1.42e+03	5.7e+02
179	PCB-114L	1.21e+06	1.52e+03	8.0e+02	7.66e+05	1.42e+03	5.4e+02
180	PCB-105L	1.18e+06	1.52e+03	7.7e+02	7.43e+05	1.42e+03	5.2e+02
181	PCB-126L	1.14e+06	1.52e+03	7.4e+02	7.22e+05	1.42e+03	5.1e+02
182	PCB-155L	1.80e+06	1.05e+03	1.7e+03	1.44e+06	1.12e+03	1.3e+03
183	PCB-167L	9.64e+05	1.56e+03	6.2e+02	7.35e+05	1.31e+03	5.6e+02
184	PCB-156/157L	1.43e+06	1.56e+03	9.2e+02	1.14e+06	1.31e+03	8.7e+02
185	PCB-169L	8.24e+05	1.56e+03	5.3e+02	6.75e+05	1.31e+03	5.2e+02
186	PCB-188L	1.27e+06	1.28e+03	1.0e+03	1.22e+06	1.42e+03	8.6e+02
187	PCB-189L	7.44e+05	1.33e+03	5.6e+02	6.99e+05	1.20e+03	5.8e+02
188	PCB-202L	9.59e+05	1.13e+03	8.5e+02	1.07e+06	9.64e+02	1.1e+03
189	PCB-205L	5.79e+05	1.13e+03	5.1e+02	6.72e+05	9.64e+02	7.0e+02
190	PCB-208L	6.20e+05	1.11e+03	5.6e+02	7.80e+05	9.56e+02	8.2e+02
191	PCB-206L	3.61e+05	7.36e+02	4.9e+02	4.65e+05	1.32e+03	3.5e+02
192	PCB-209L	5.09e+05	1.14e+03	4.5e+02	4.30e+05	8.04e+02	5.4e+02
193	PCB-28L	*	1.69e+04	*	*	8.42e+03	*
194	PCB-111L	*	1.04e+03	*	*	8.32e+02	*
195	PCB-178L	*	1.28e+03	*	*	1.42e+03	*
196	PCB-9L	*	1.44e+03	*	*	1.56e+03	*
197	PCB-52L	*	2.31e+03	*	*	1.11e+03	*
198	PCB-101L	*	1.04e+03	*	*	8.32e+02	*
199	PCB-138L	*	1.03e+03	*	*	1.25e+03	*
200	PCB-194L	*	1.13e+03	*	*	9.64e+02	*

File:U142052 #1-341 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

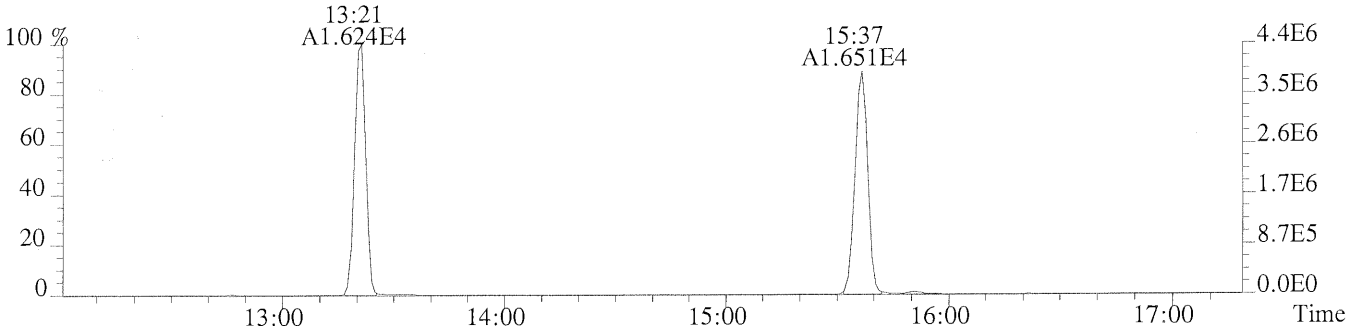
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3084.0,1.00%,F,T)



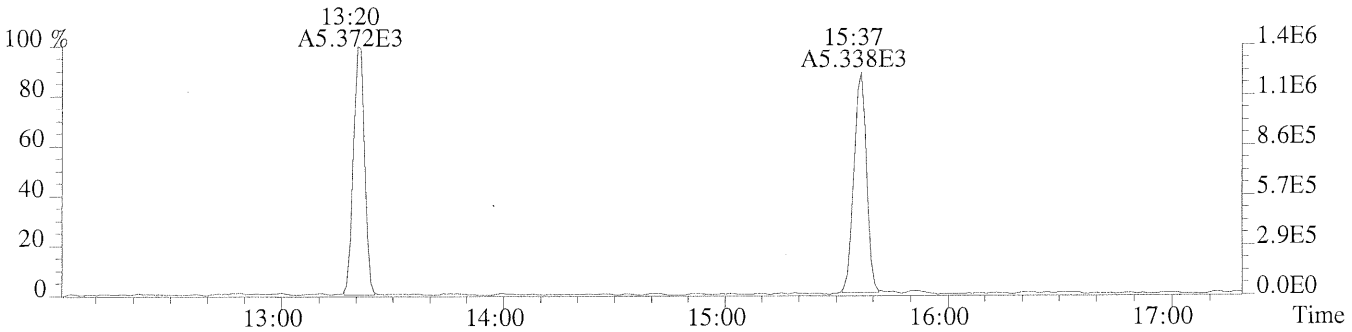
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3776.0,1.00%,F,T)



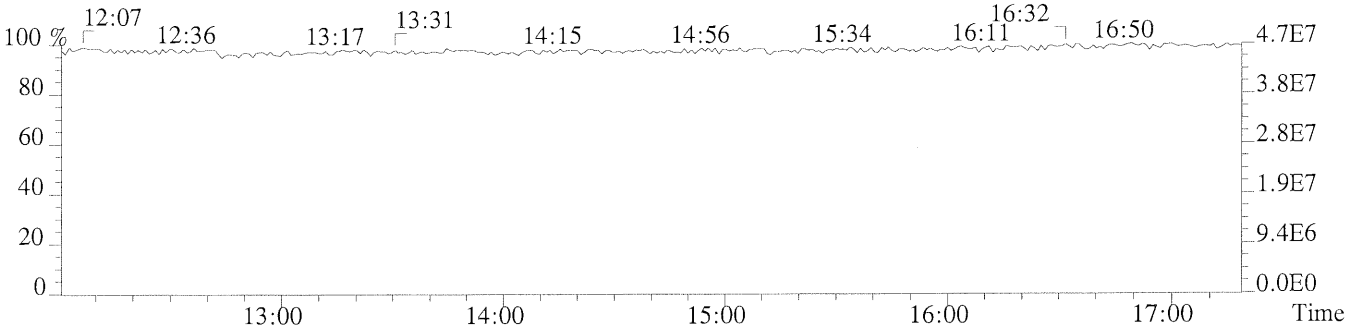
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4188.0,1.00%,F,T)



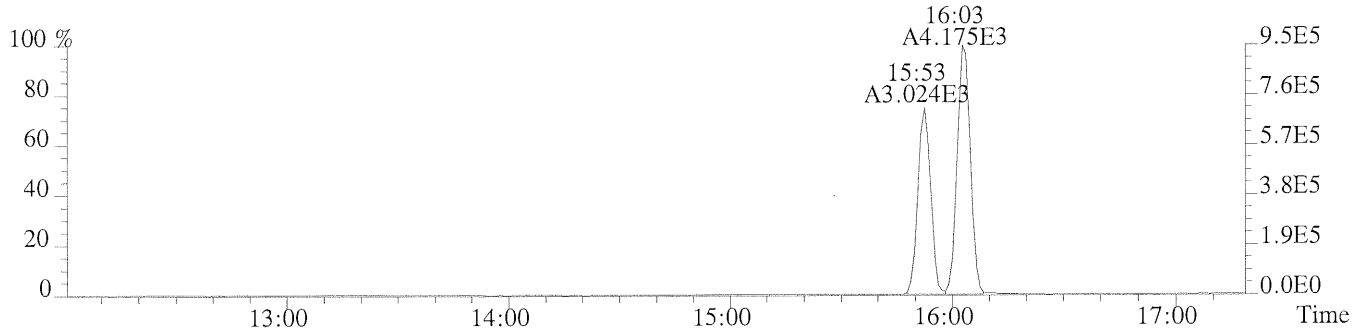
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12492.0,1.00%,F,T)



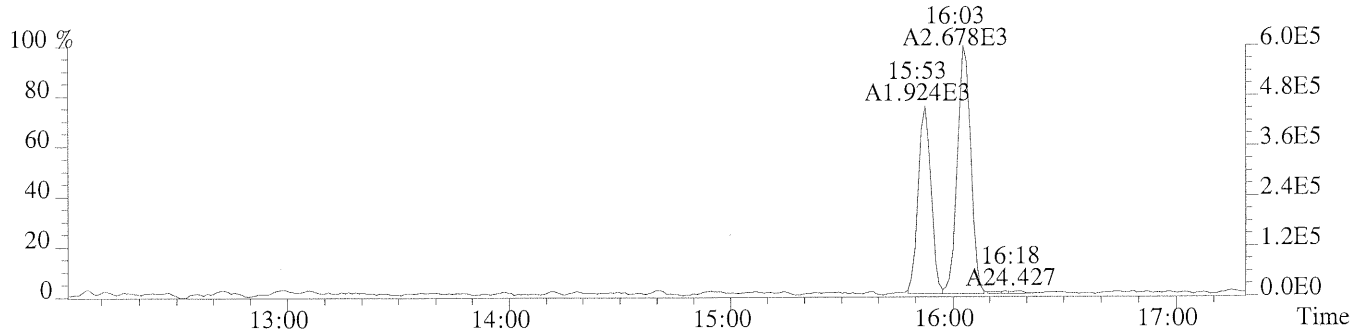
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



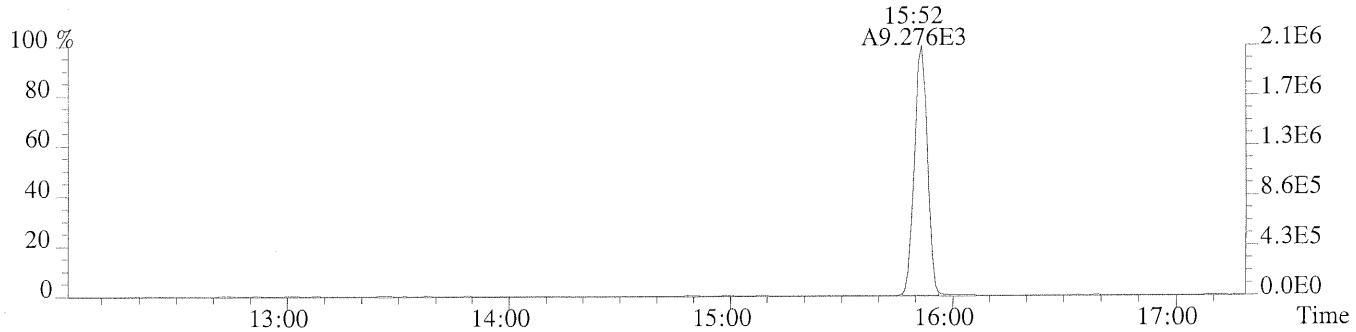
File:U142052 #1-341 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2436.0,1.00%,F,T)



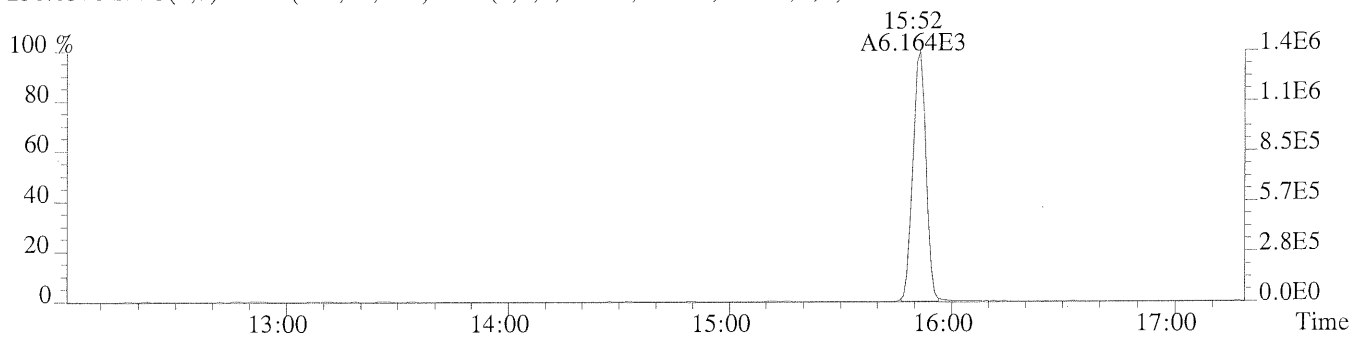
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11908.0,1.00%,F,T)



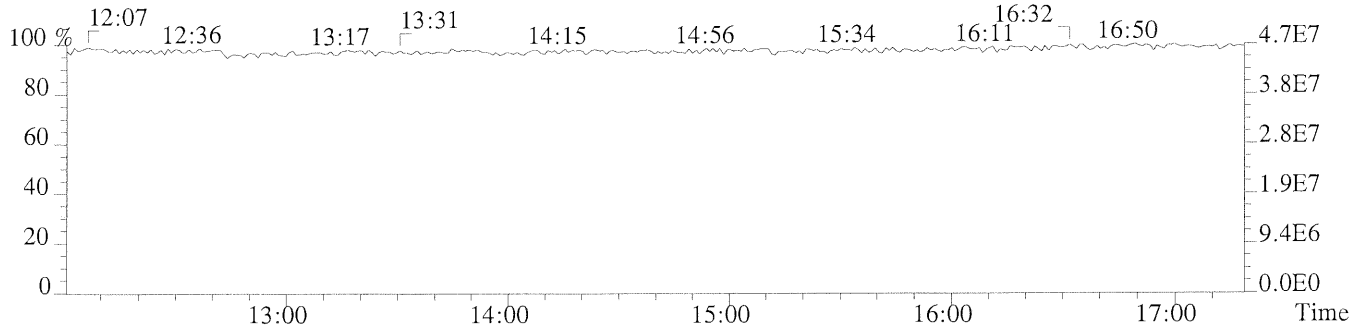
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2552.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1676.0,1.00%,F,T)

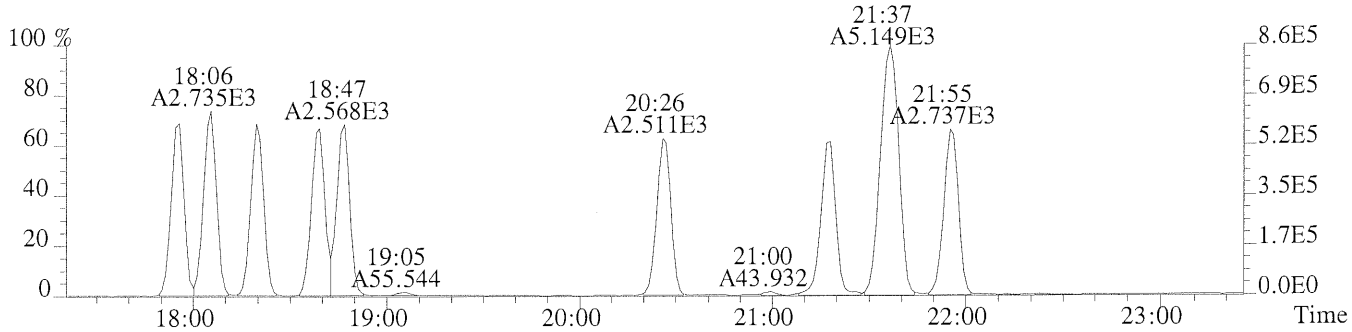


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

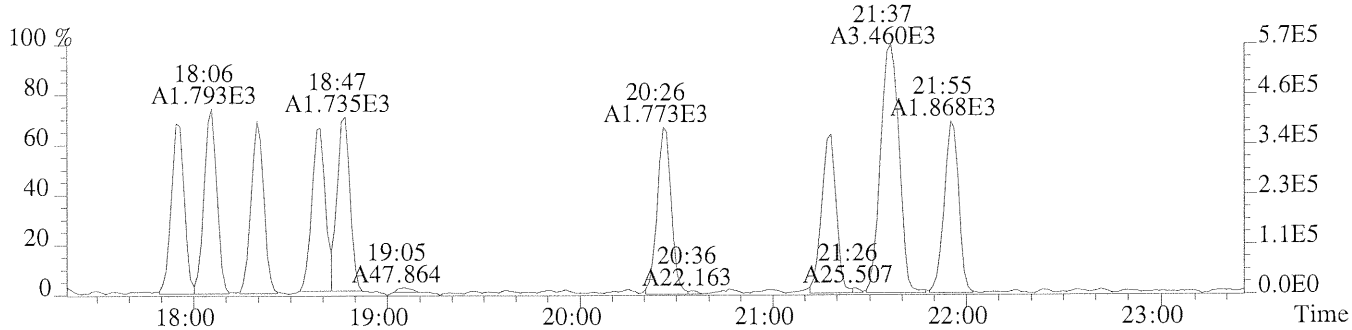


File:U142052 #1-336 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

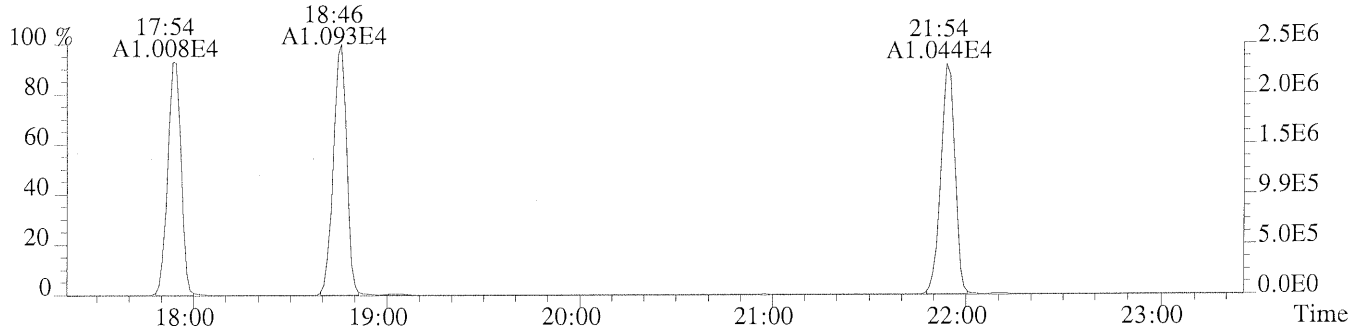
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2140.0,1.00%,F,T)



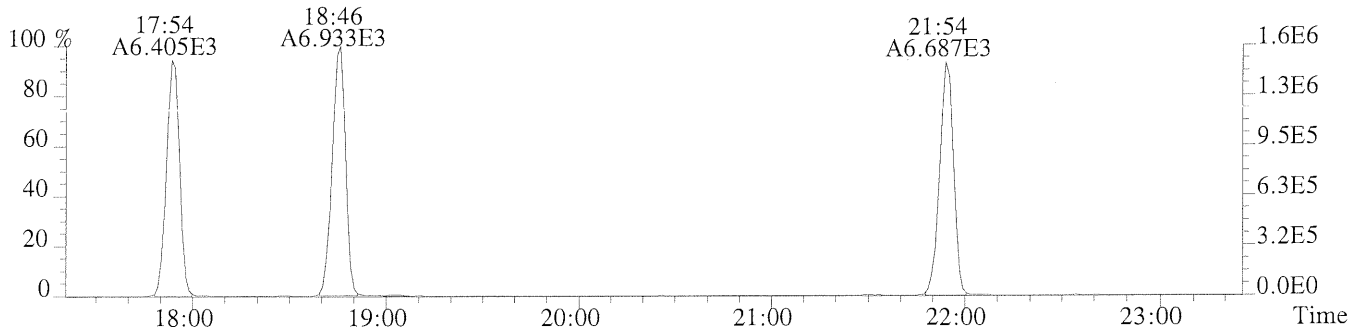
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8568.0,1.00%,F,T)



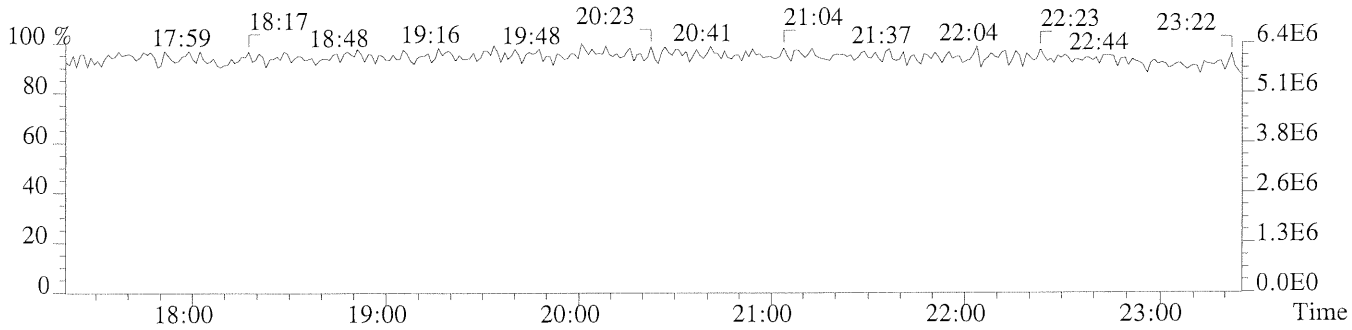
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1444.0,1.00%,F,T)



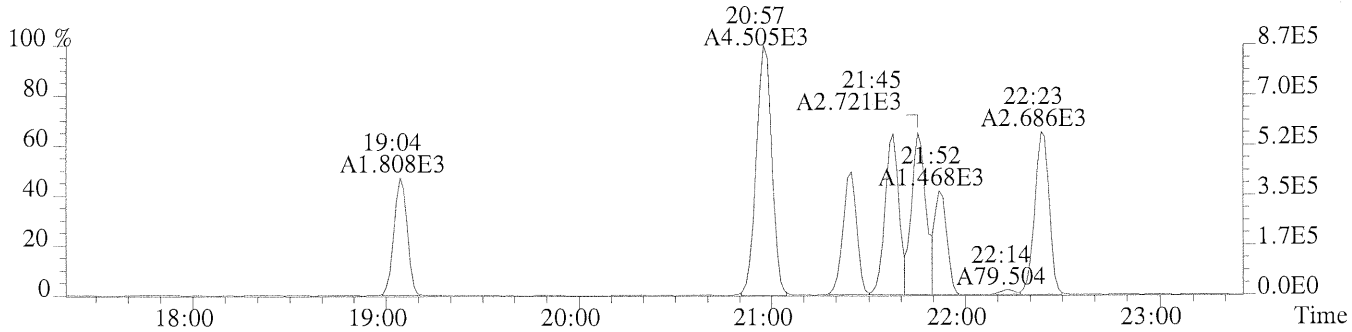
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1564.0,1.00%,F,T)



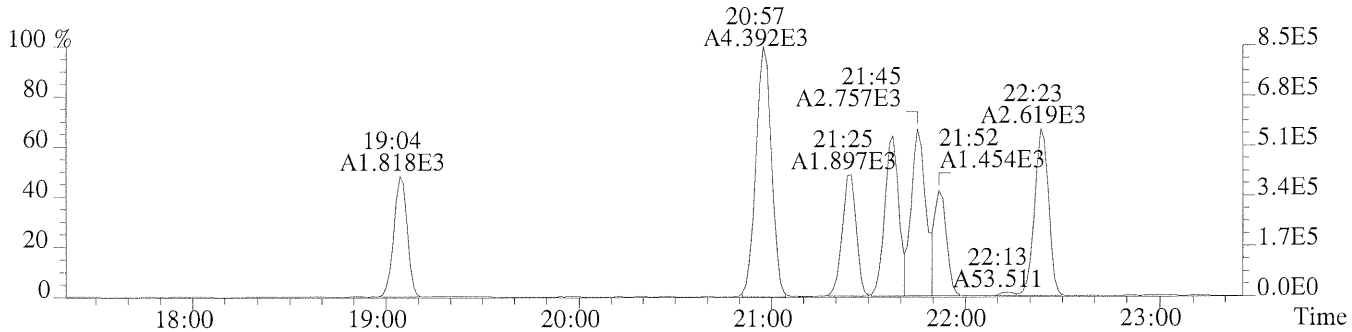
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



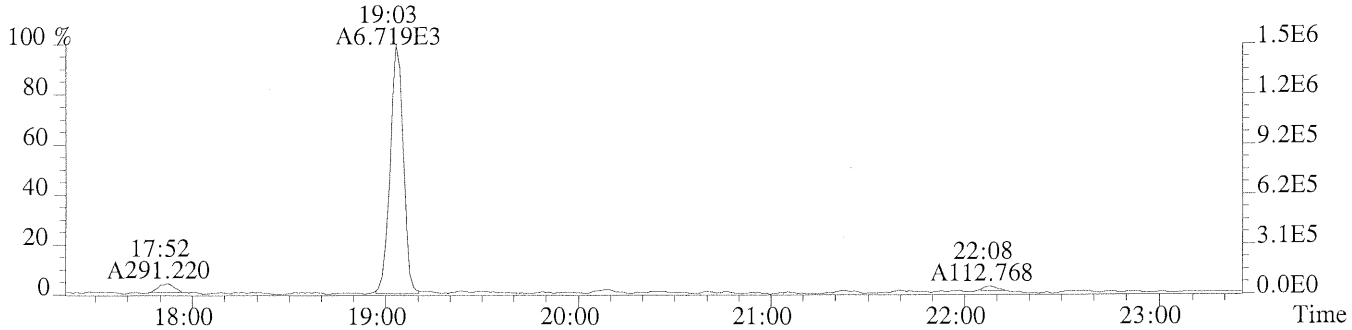
File:U142052 #1-336 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1844.0,1.00%,F,T)



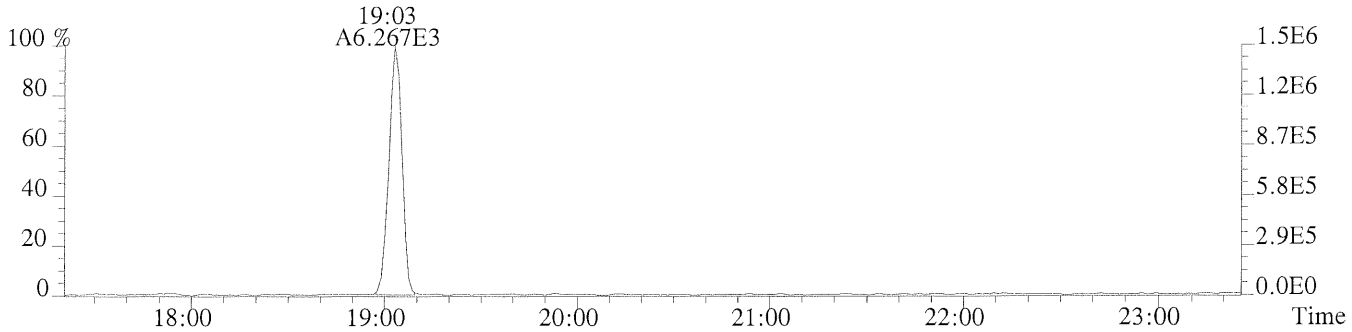
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1536.0,1.00%,F,T)



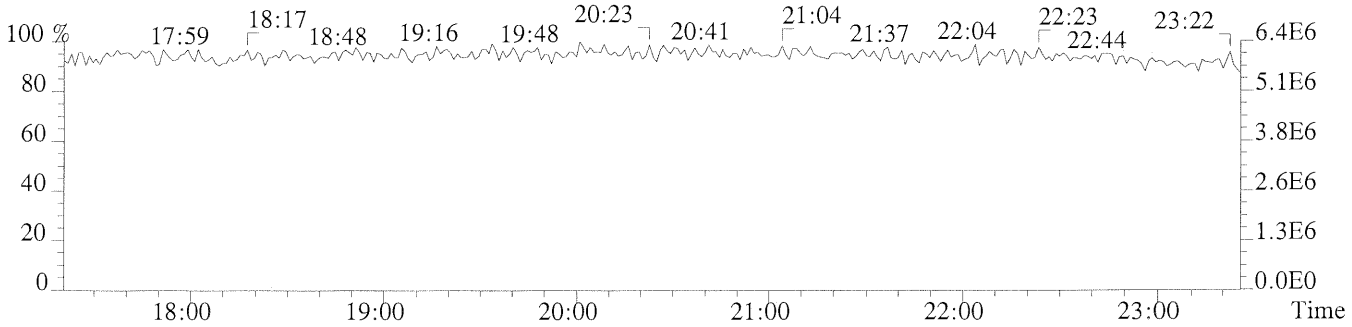
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17268.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11132.0,1.00%,F,T)

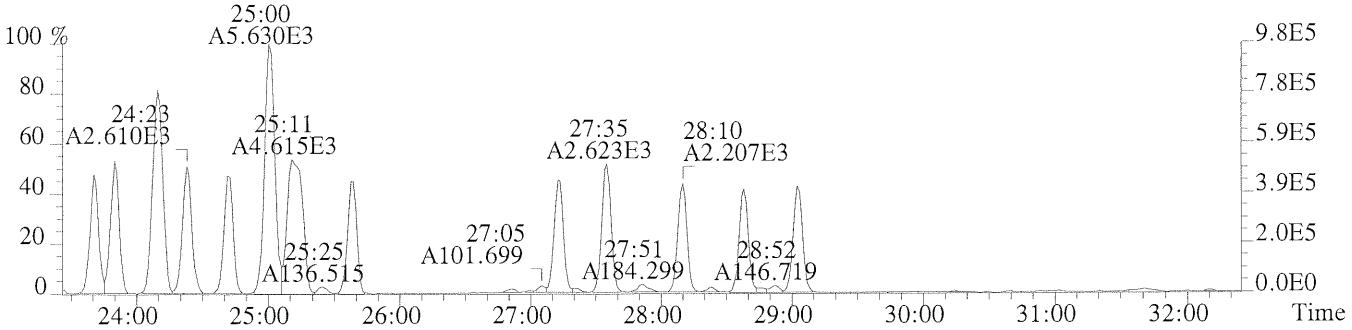


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

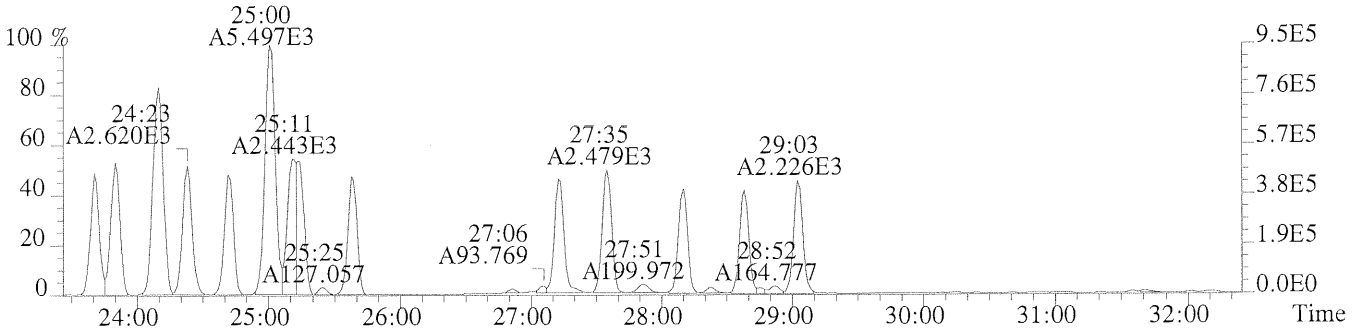


File:U142052 #1-574 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

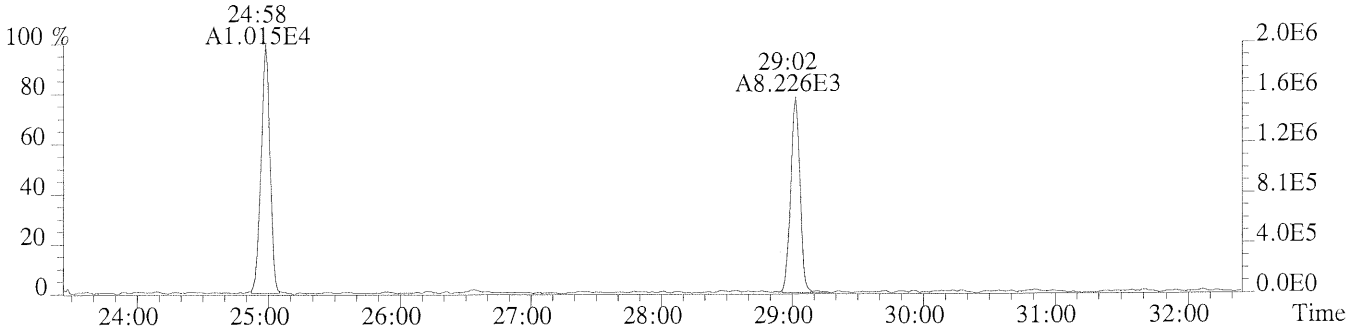
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2560.0,1.00%,F,T)



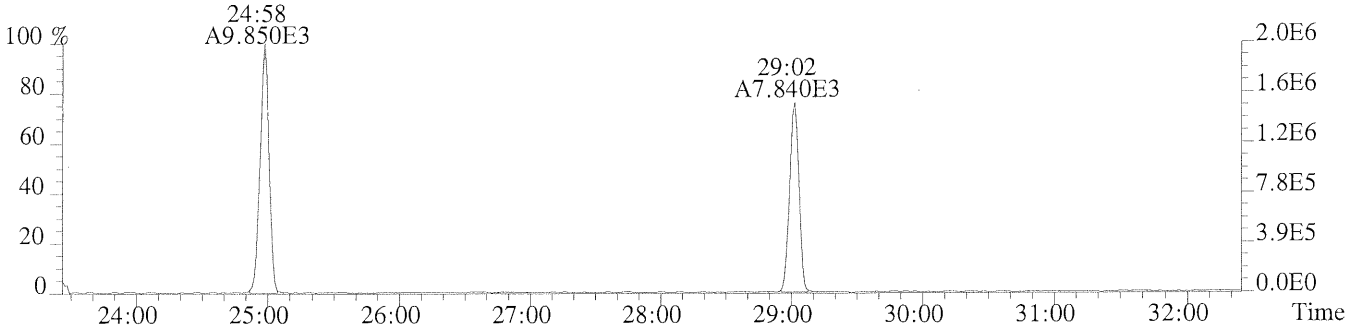
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4260.0,1.00%,F,T)



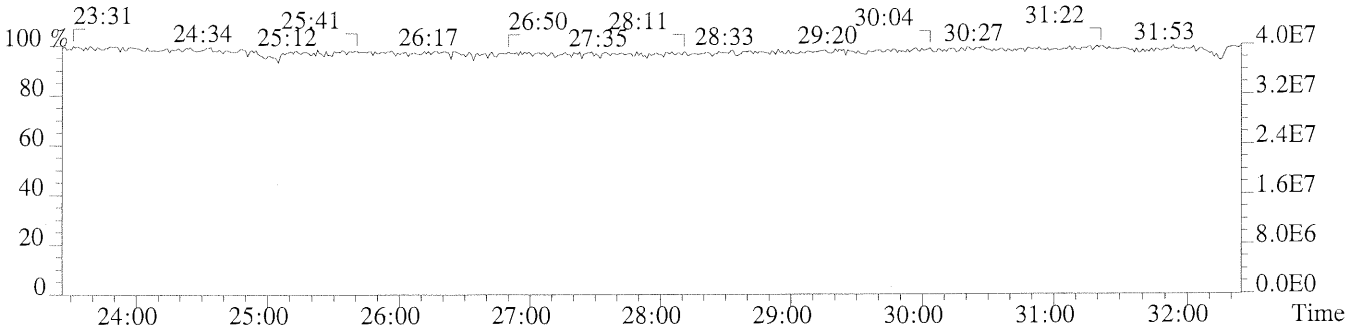
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16884.0,1.00%,F,T)



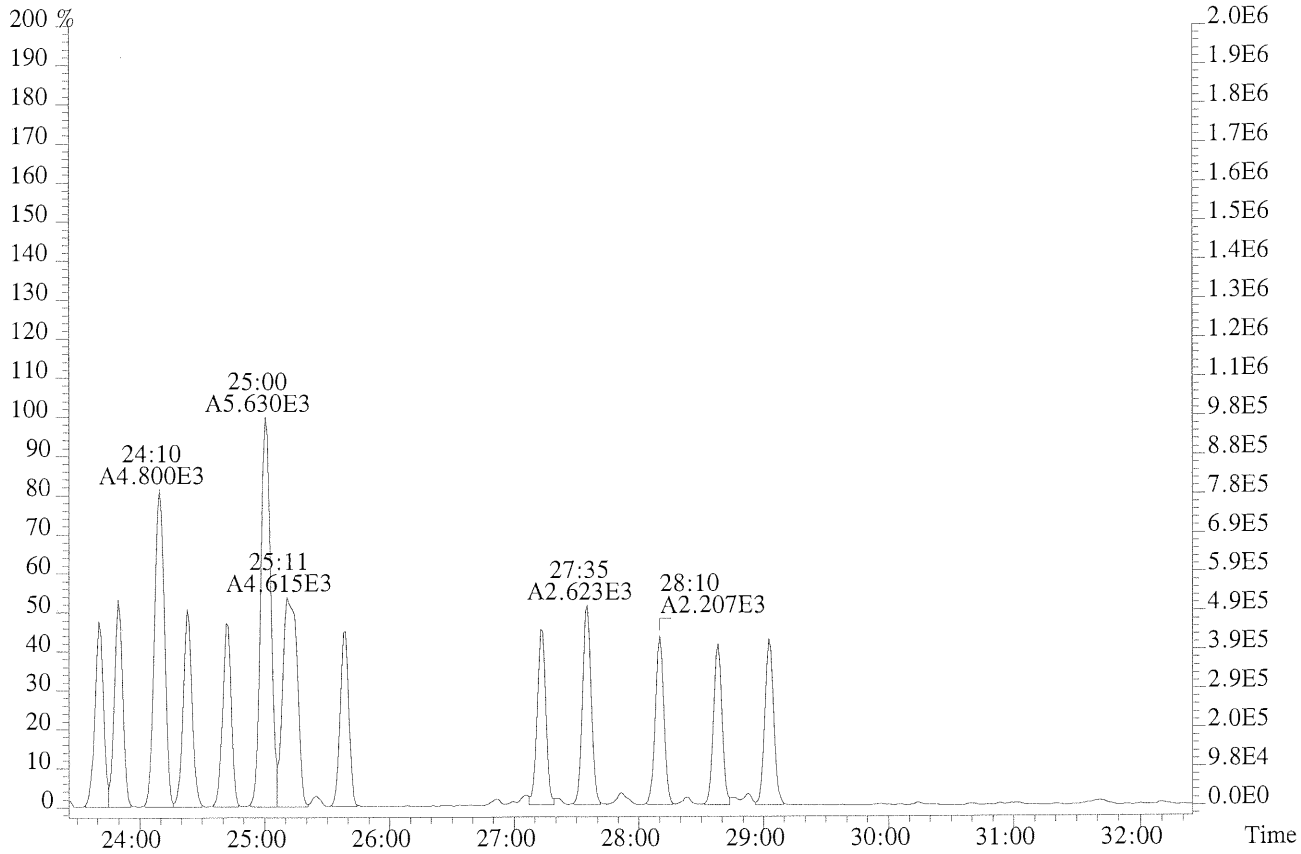
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8424.0,1.00%,F,T)



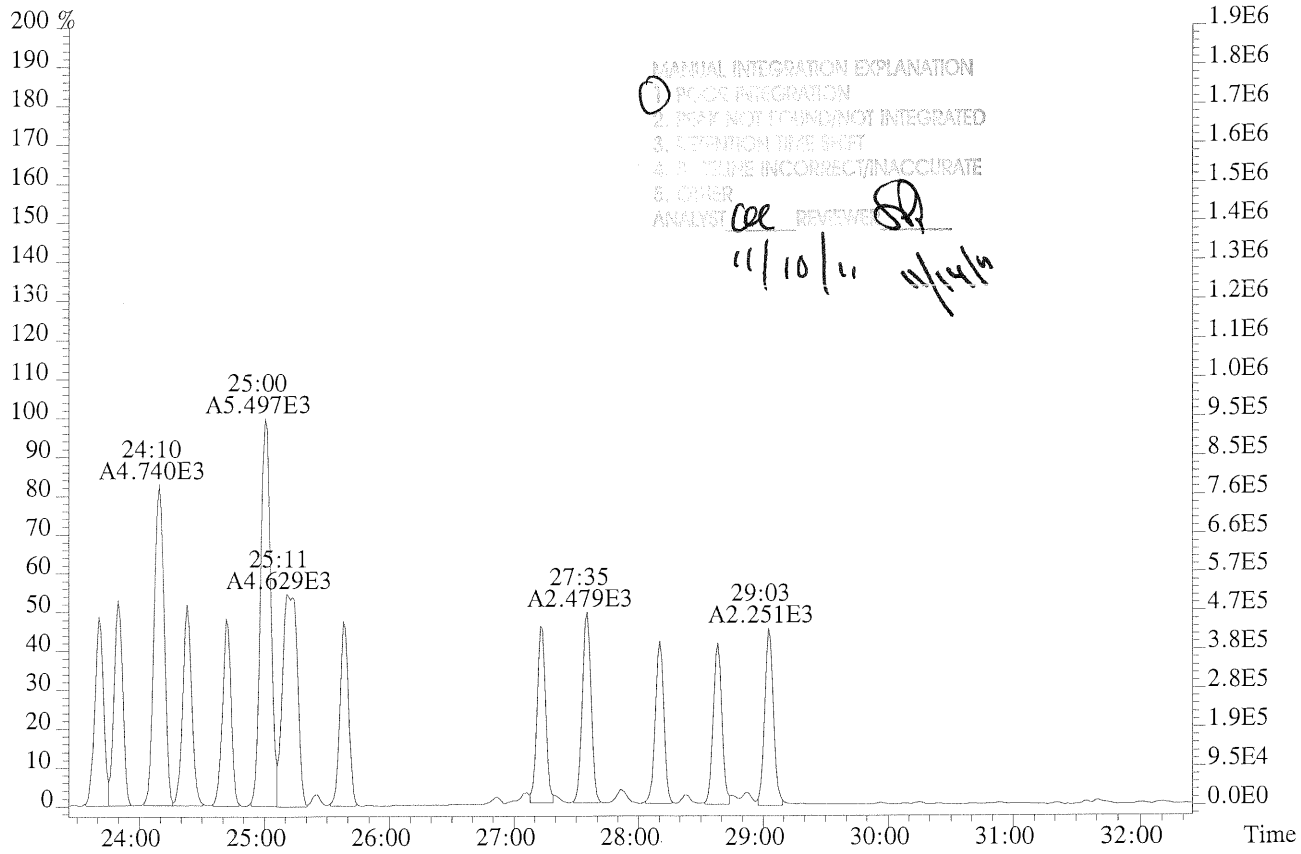
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142052 #1-574 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2560.0,1.00%,F,T)

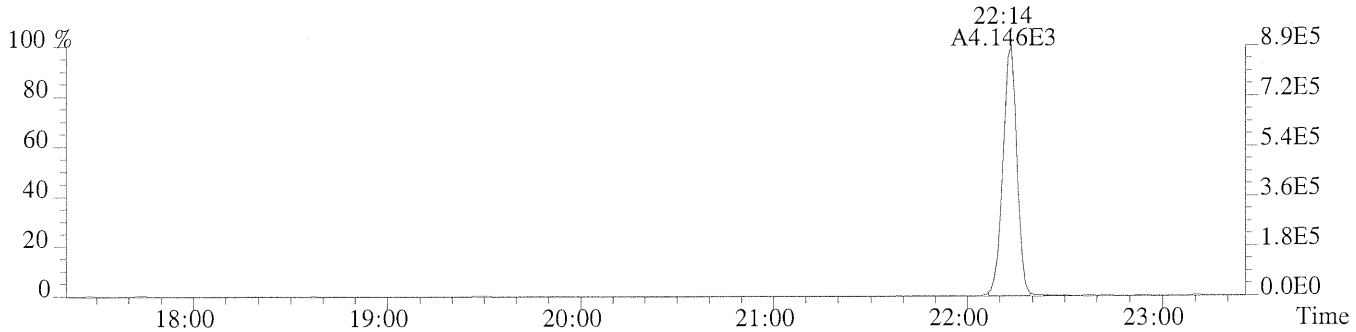


257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4260.0,1.00%,F,T)

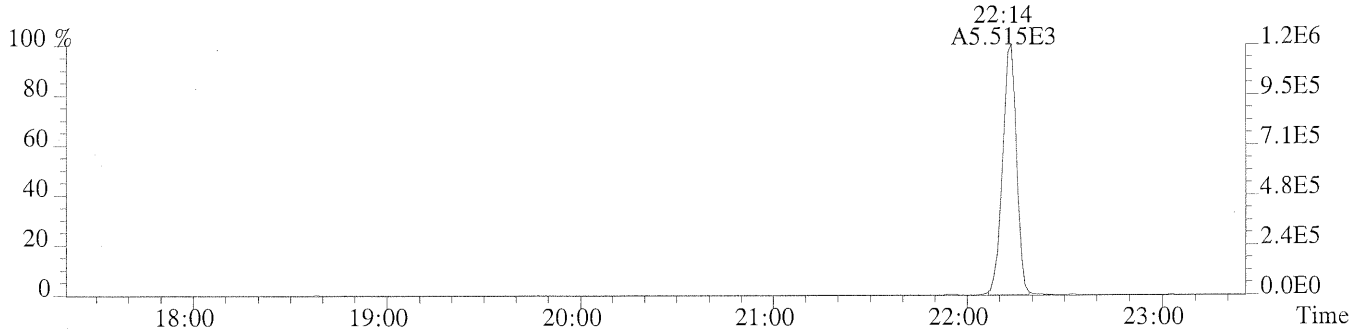


File:U142052 #1-336 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

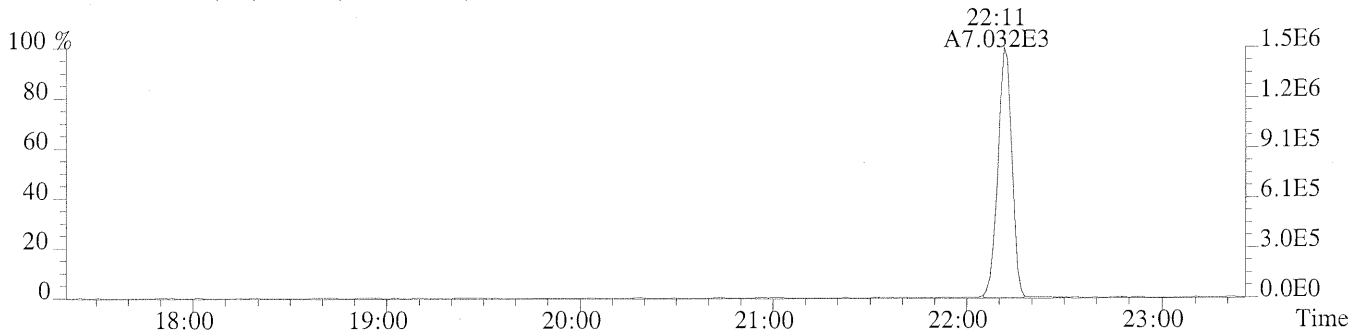
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1032.0,1.00%,F,T)



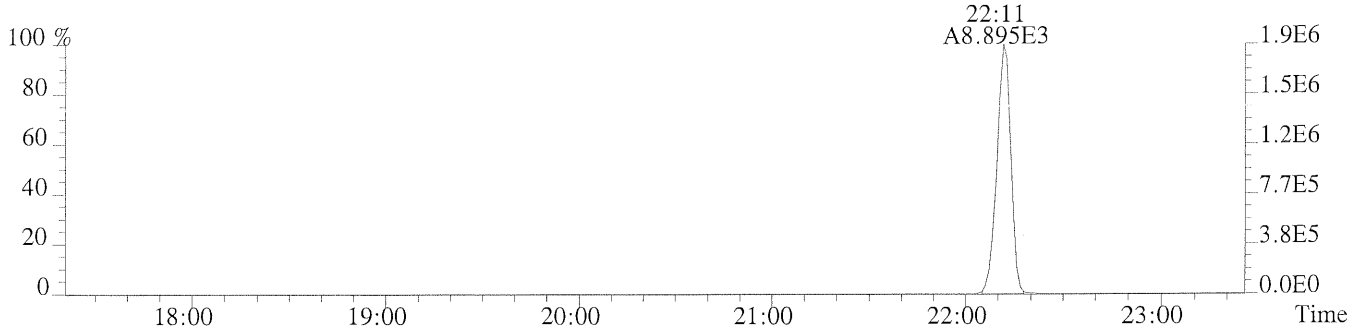
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1052.0,1.00%,F,T)



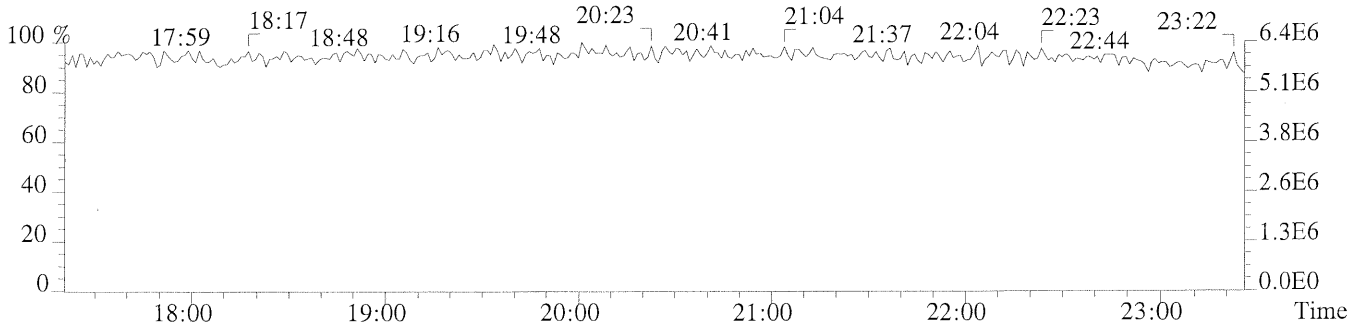
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2072.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,916.0,1.00%,F,T)

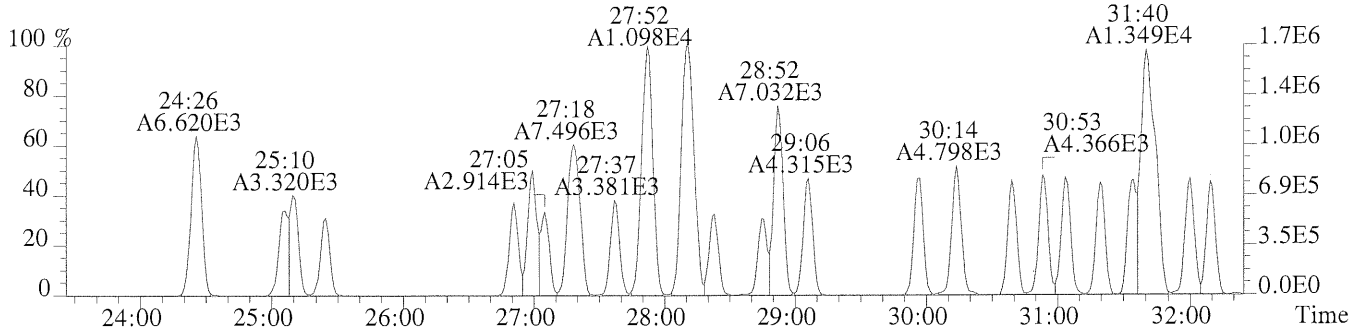


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

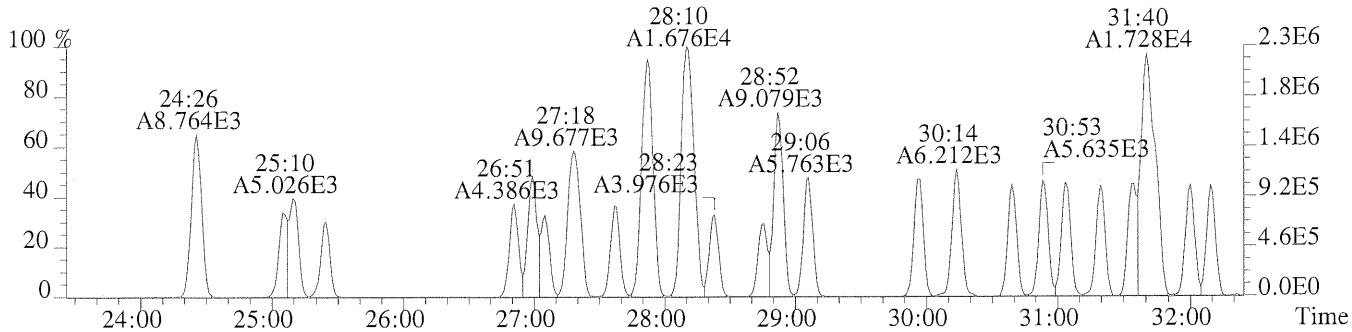


File:U142052 #1-574 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

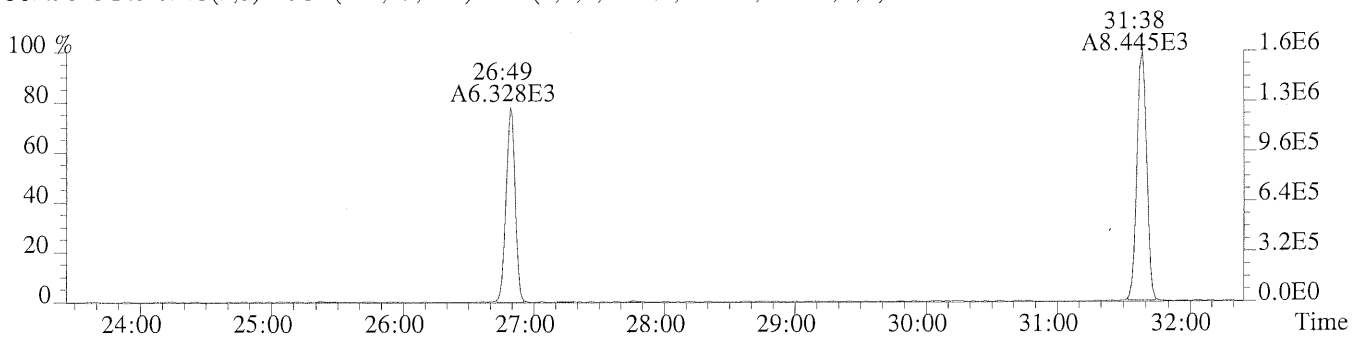
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)



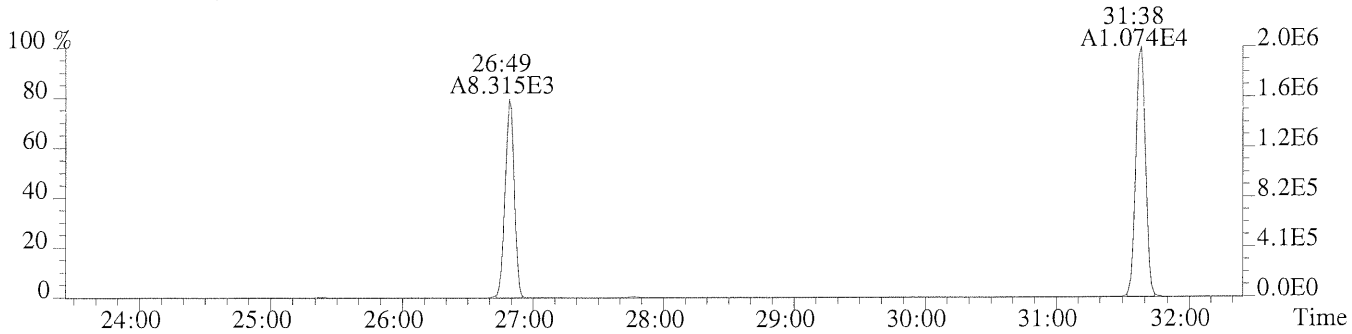
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1208.0,1.00%,F,T)



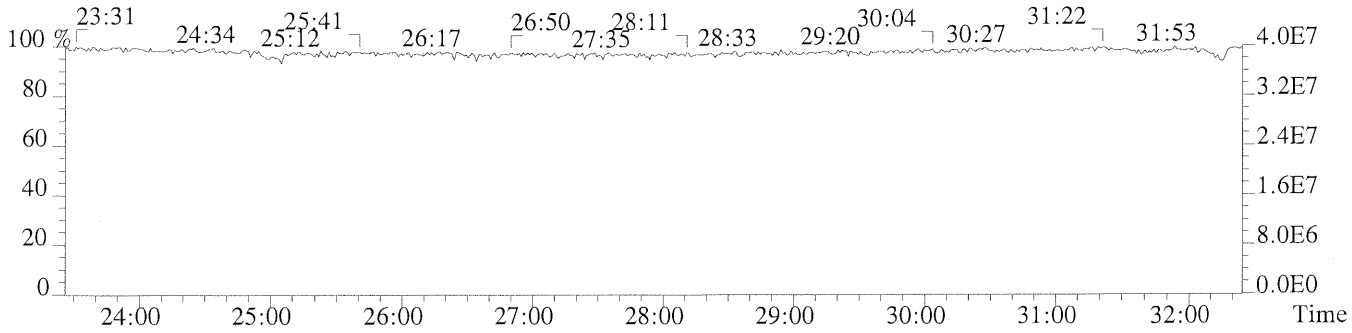
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2312.0,1.00%,F,T)



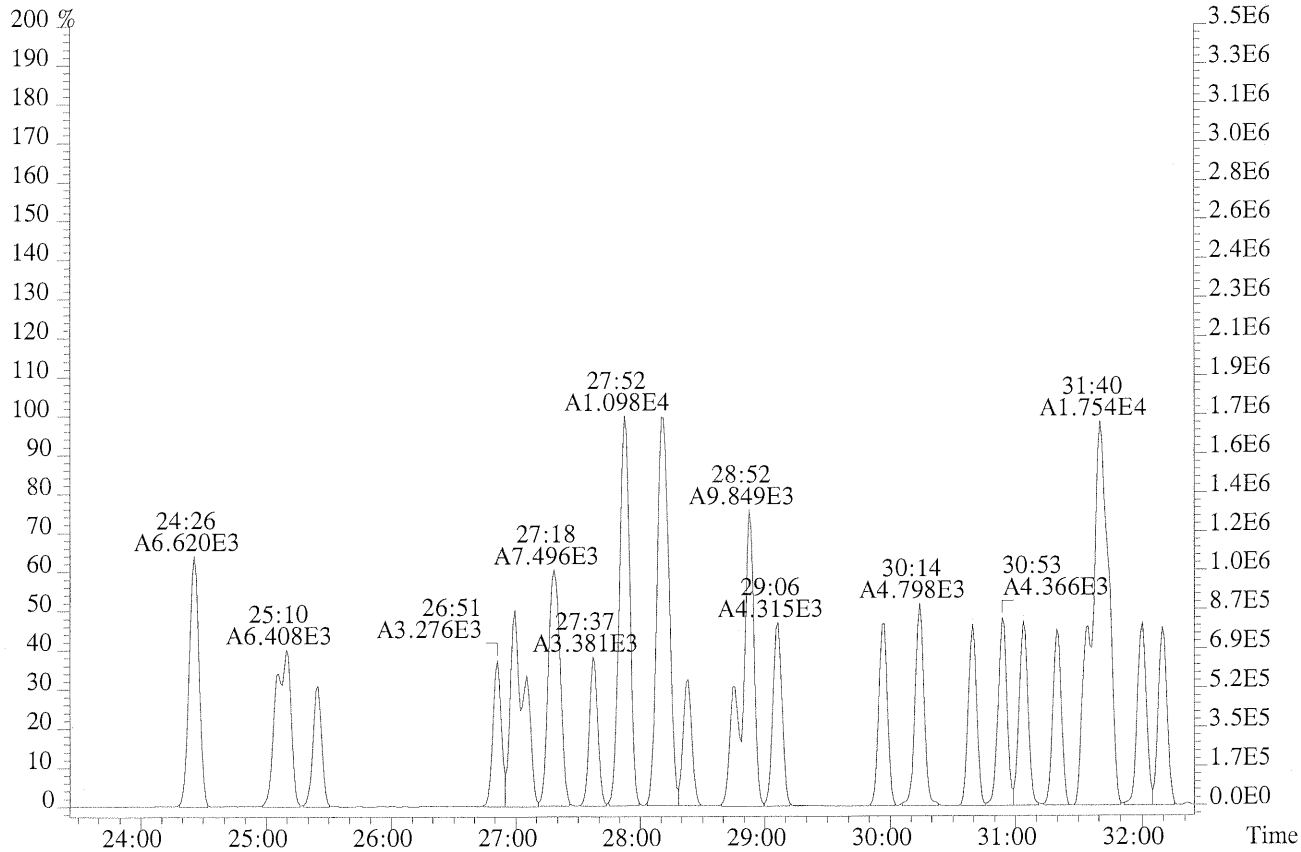
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



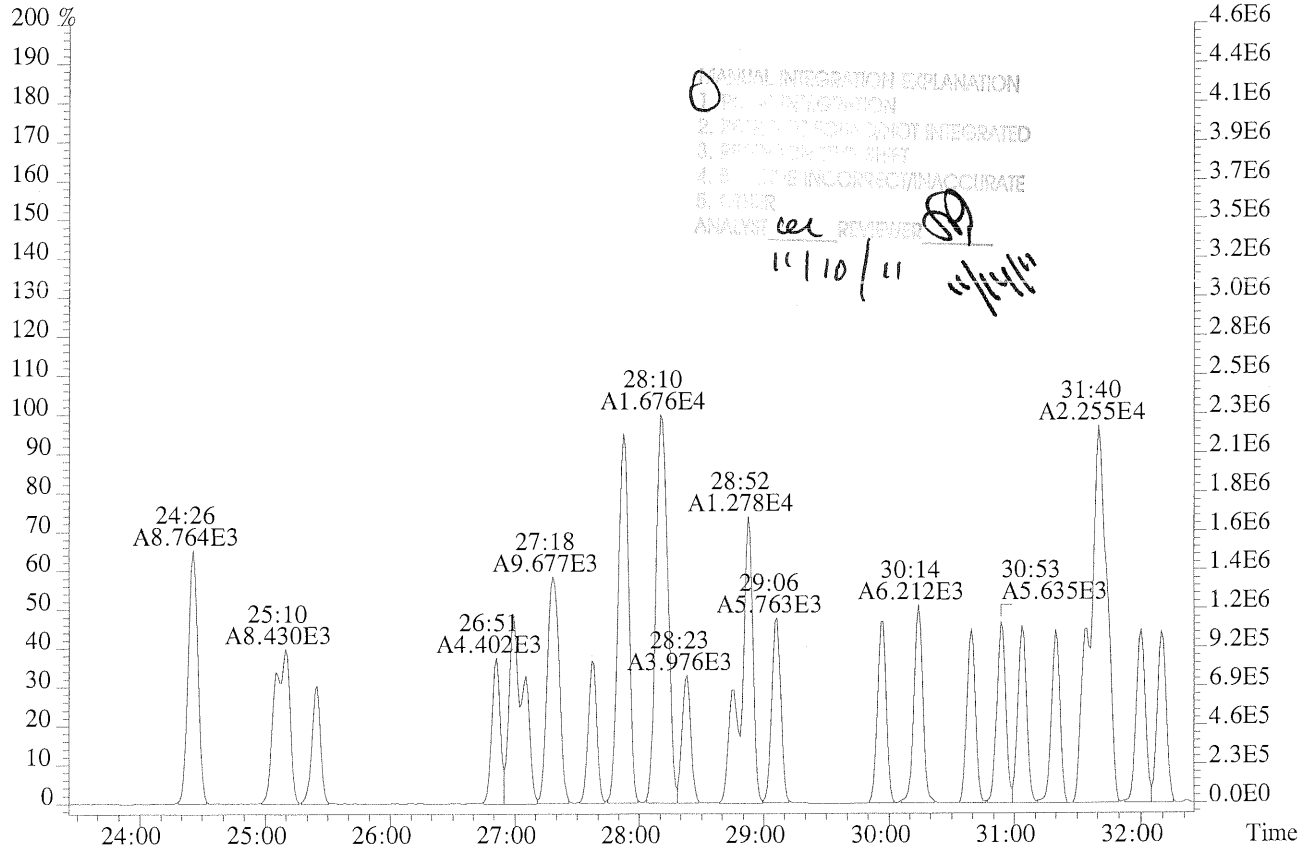
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142052 #1-574 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)



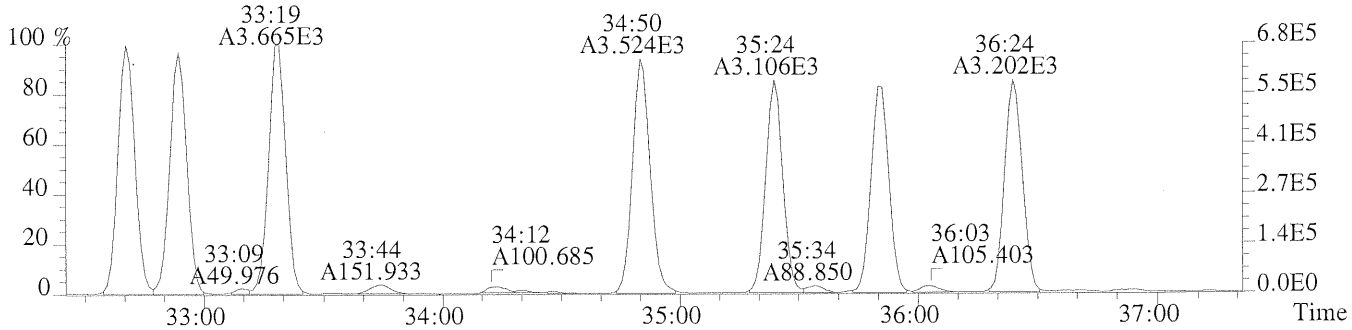
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1208.0,1.00%,F,T)



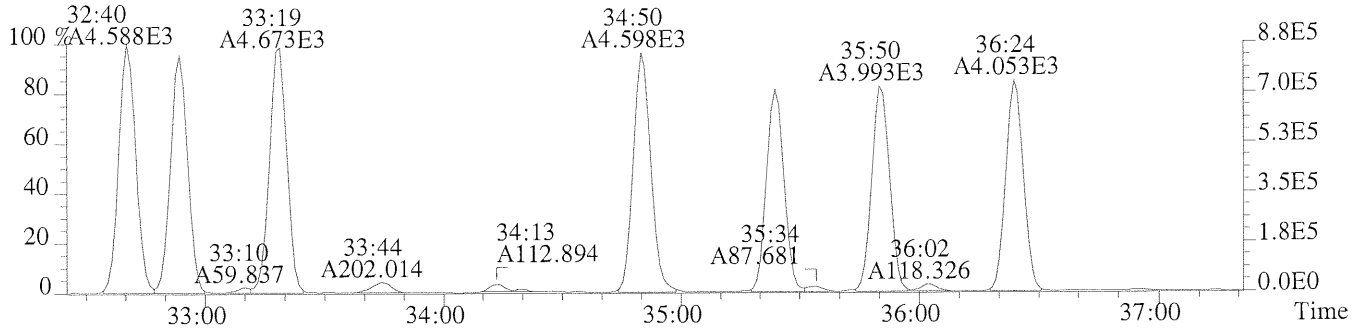
MANUAL INTEGRATION EXPLANATION
1. [illegible] INTEGRATION
2. [illegible] NOT INTEGRATED
3. [illegible] SHEET
4. [illegible] INCORRECT/INACCURATE
5. OTHER
ANALYST ccl REVIEWER SP
11/10/11 11/14/11

File:U142052 #1-316 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

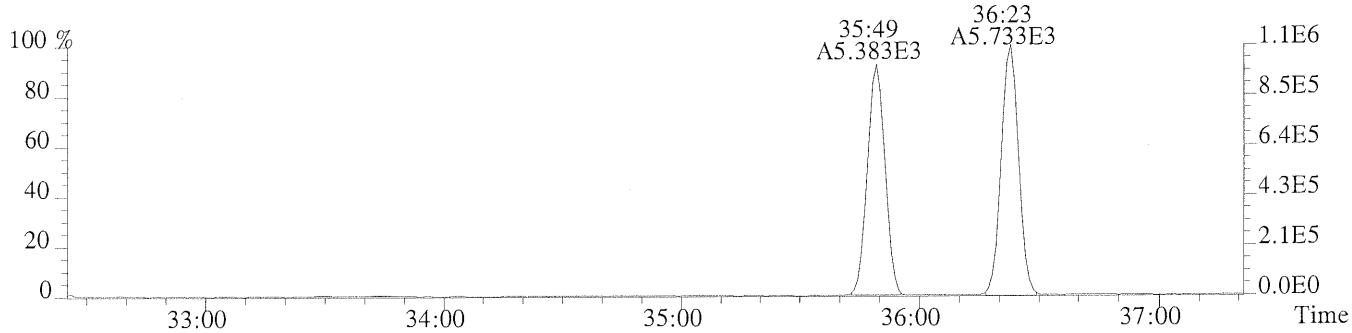
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2852.0,1.00%,F,T)



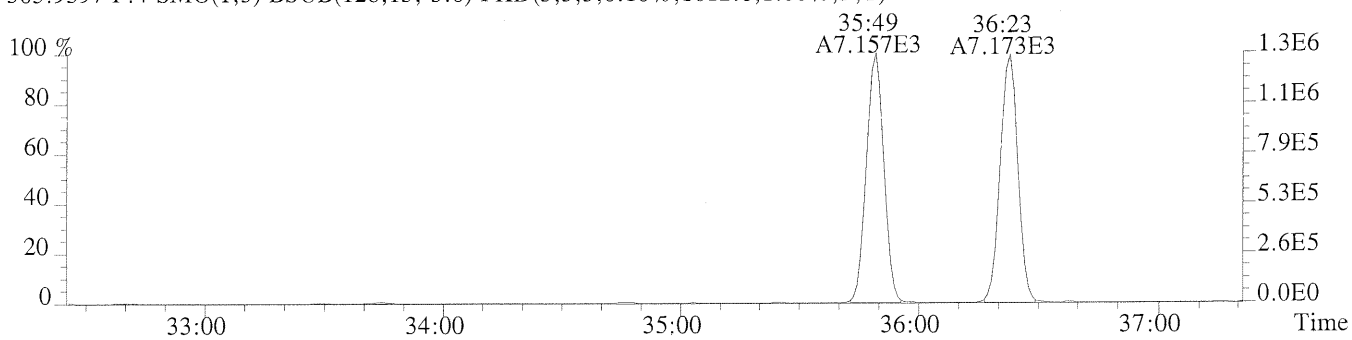
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3608.0,1.00%,F,T)



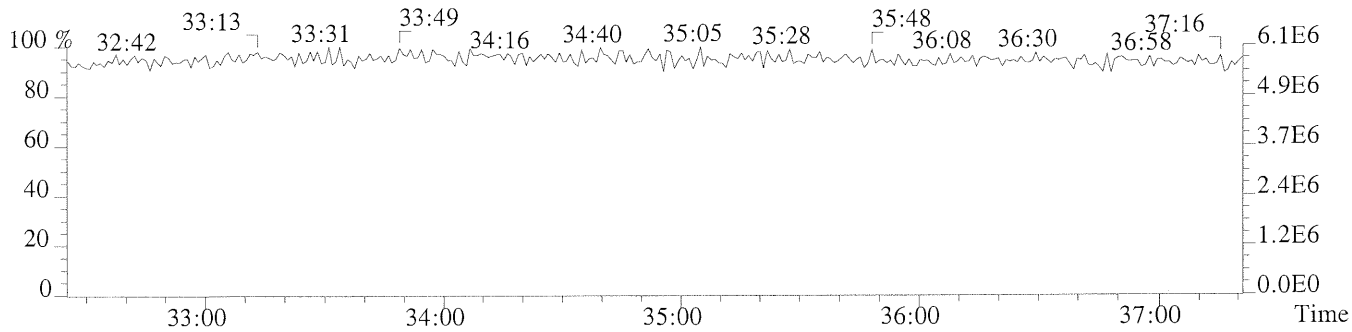
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2196.0,1.00%,F,T)



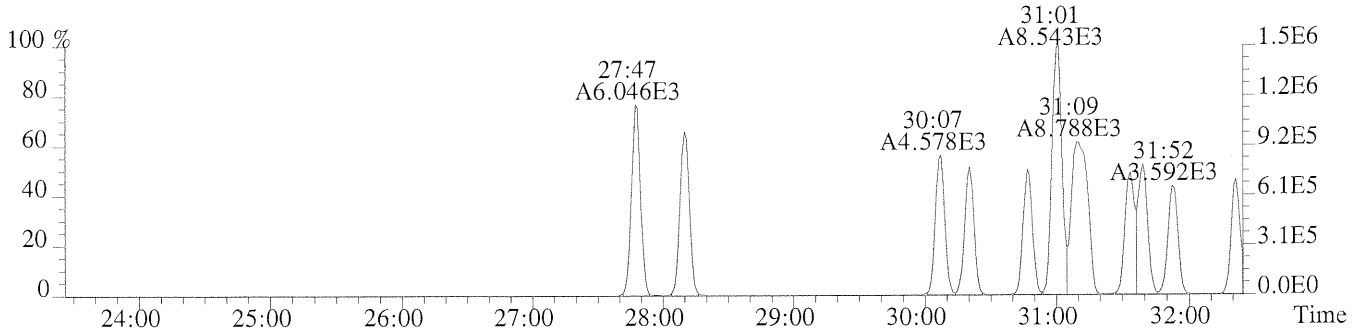
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1012.0,1.00%,F,T)



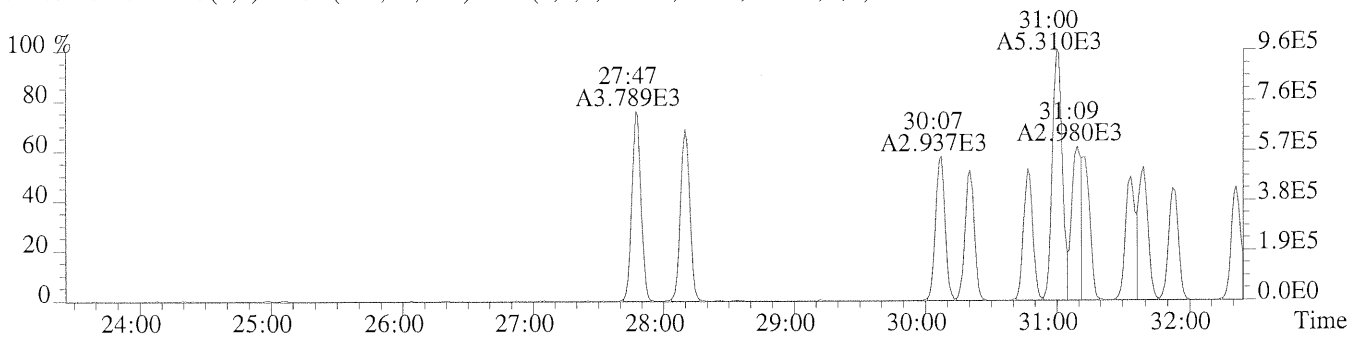
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



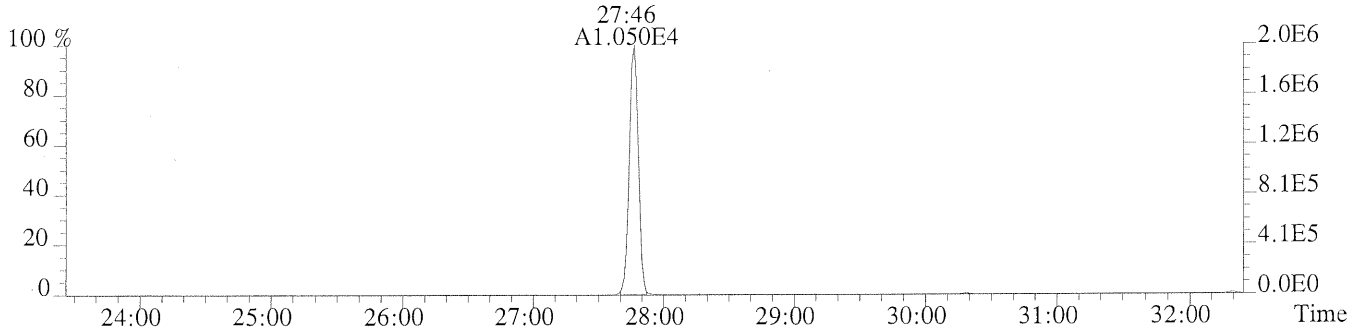
File:U142052 #1-574 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,956.0,1.00%,F,T)



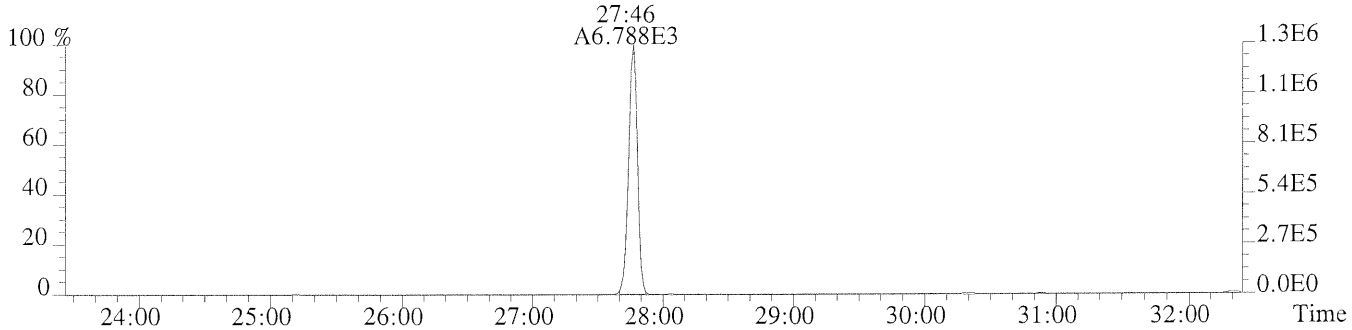
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)



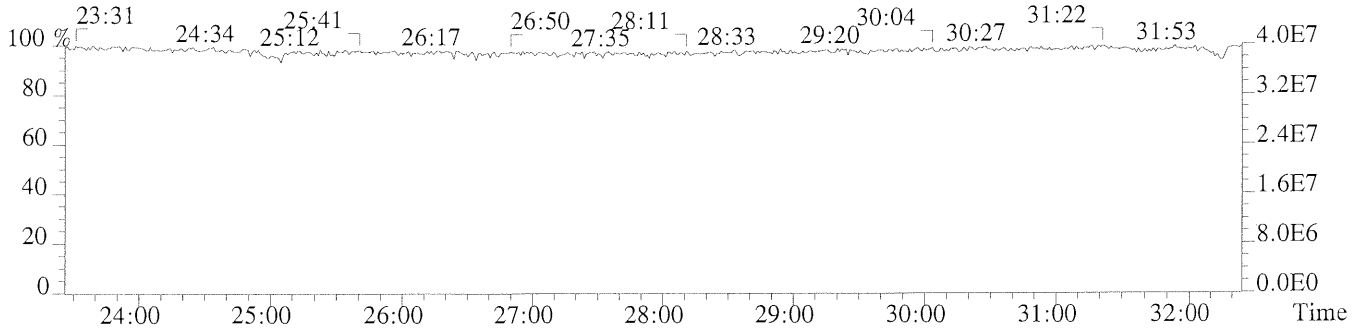
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1416.0,1.00%,F,T)



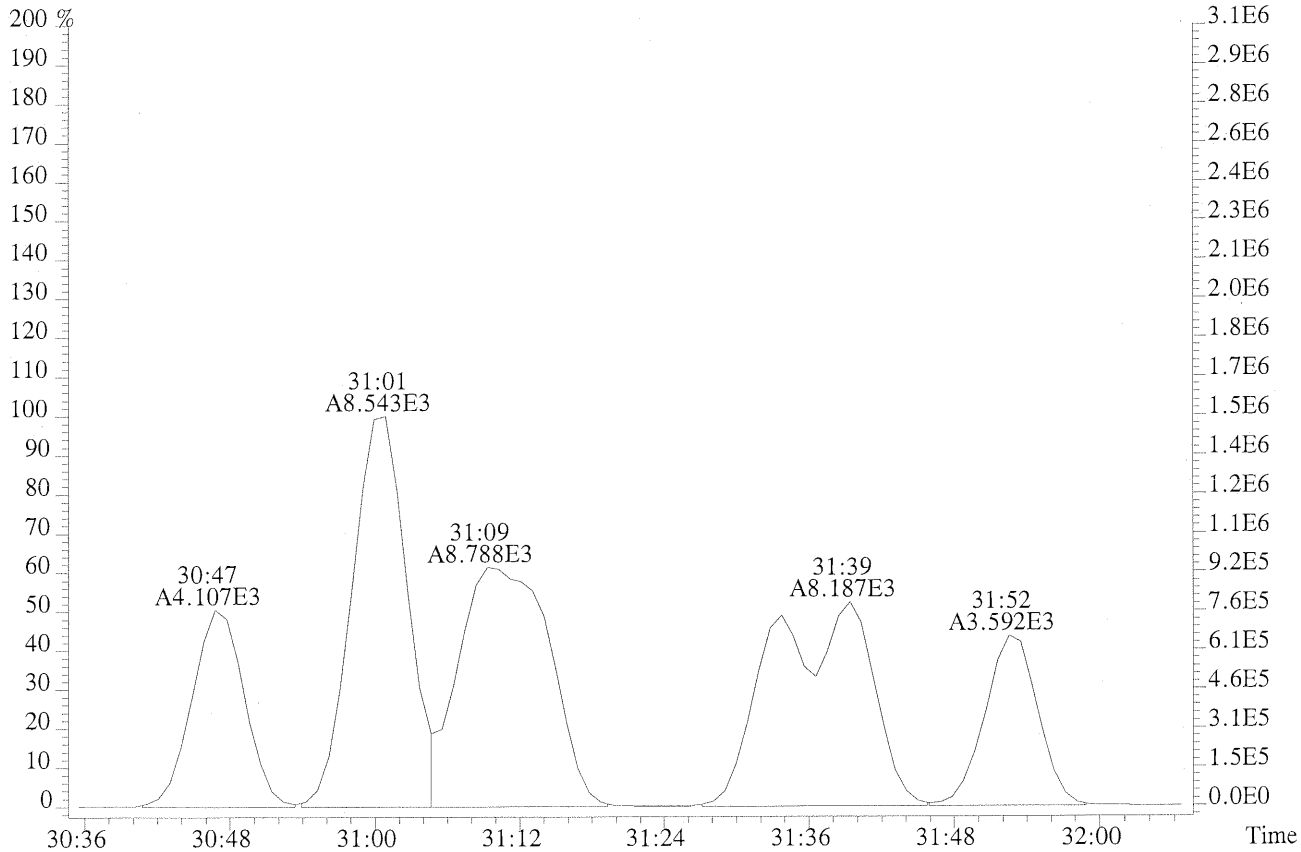
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,696.0,1.00%,F,T)



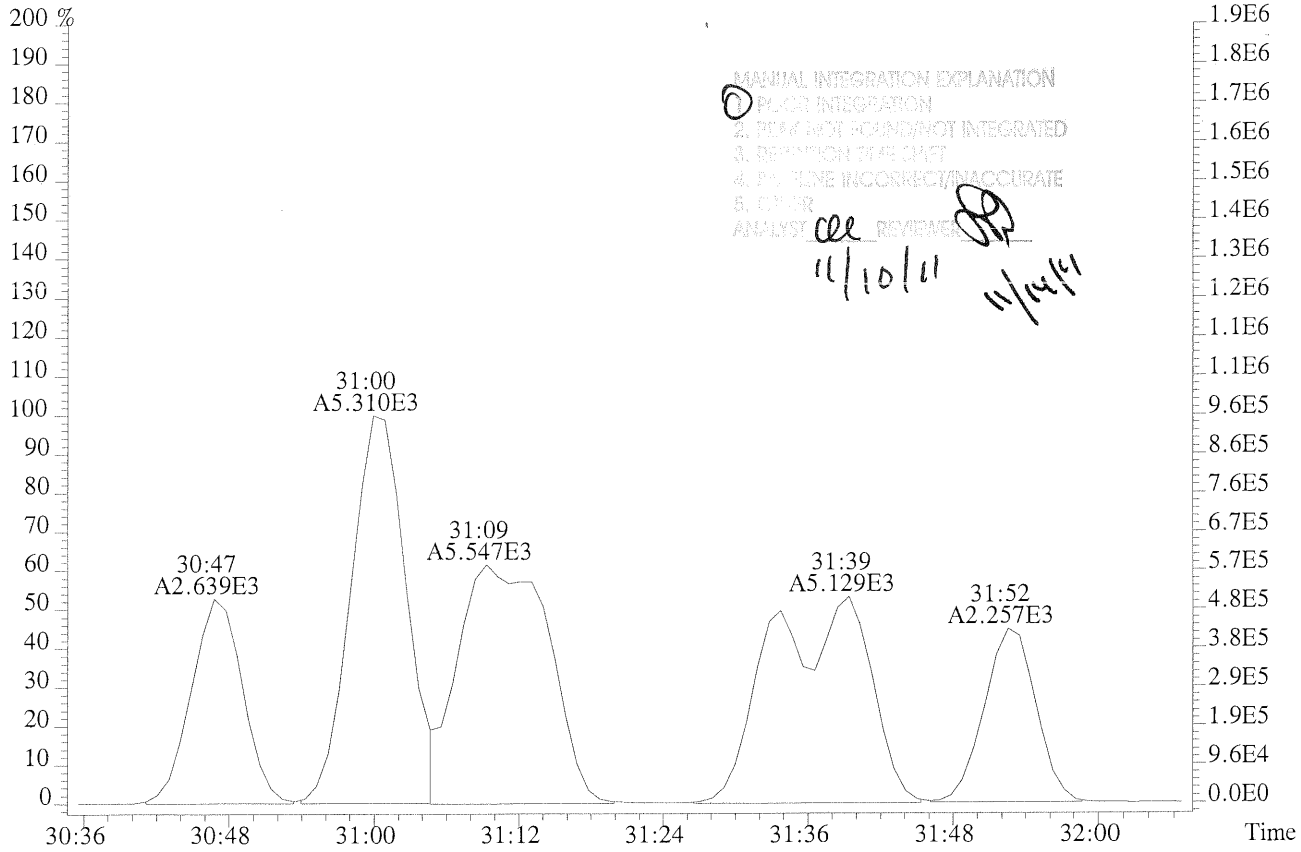
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142052 #1-574 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,956.0,1.00%,F,T)

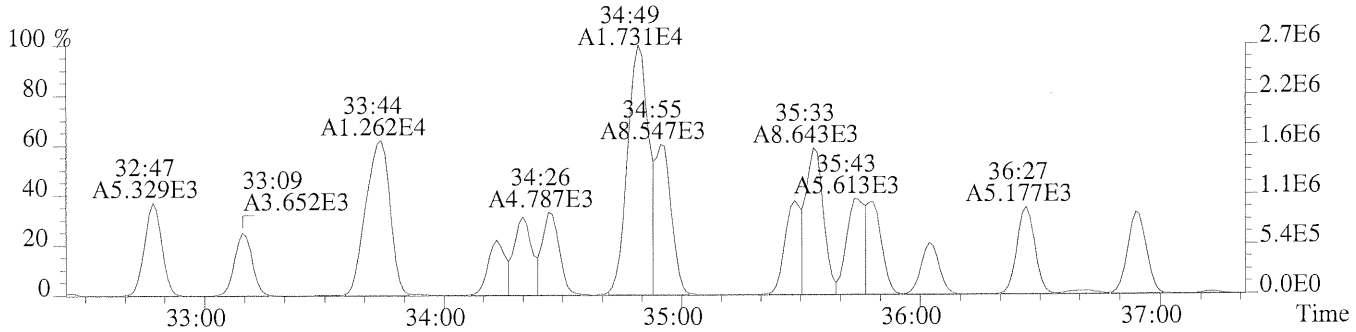


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)

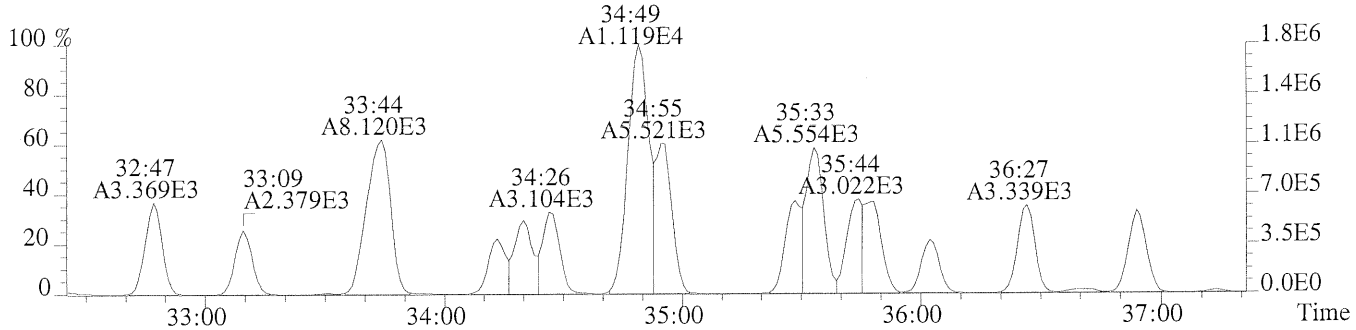


File:U142052 #1-316 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

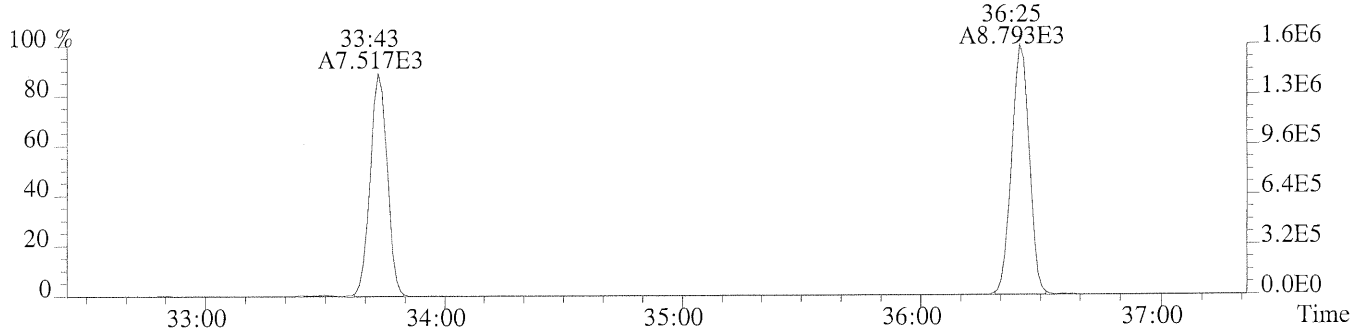
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,948.0,1.00%,F,T)



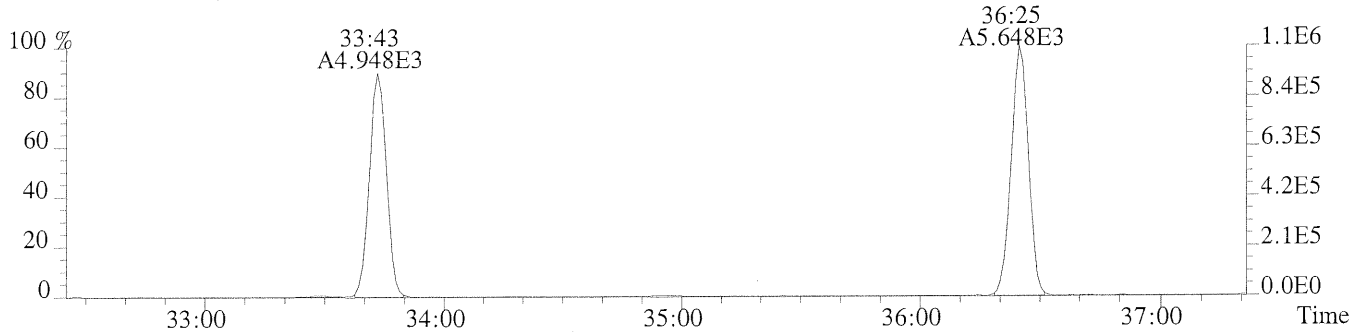
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1712.0,1.00%,F,T)



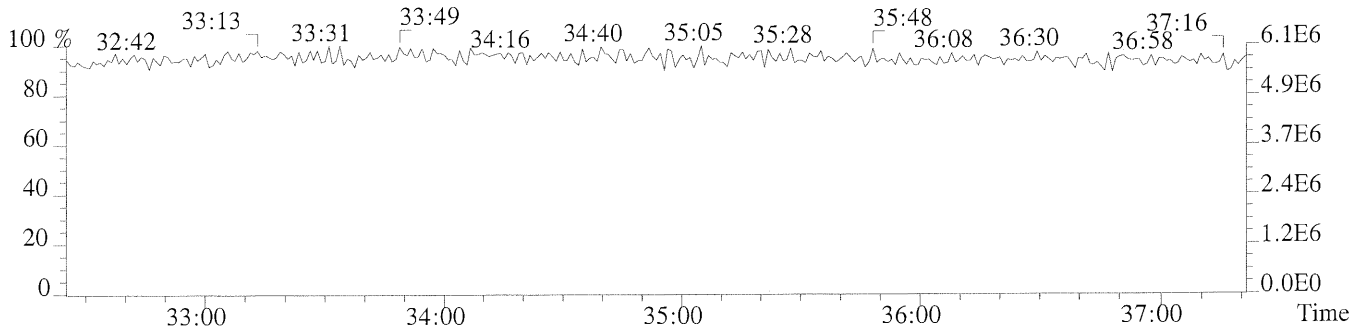
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



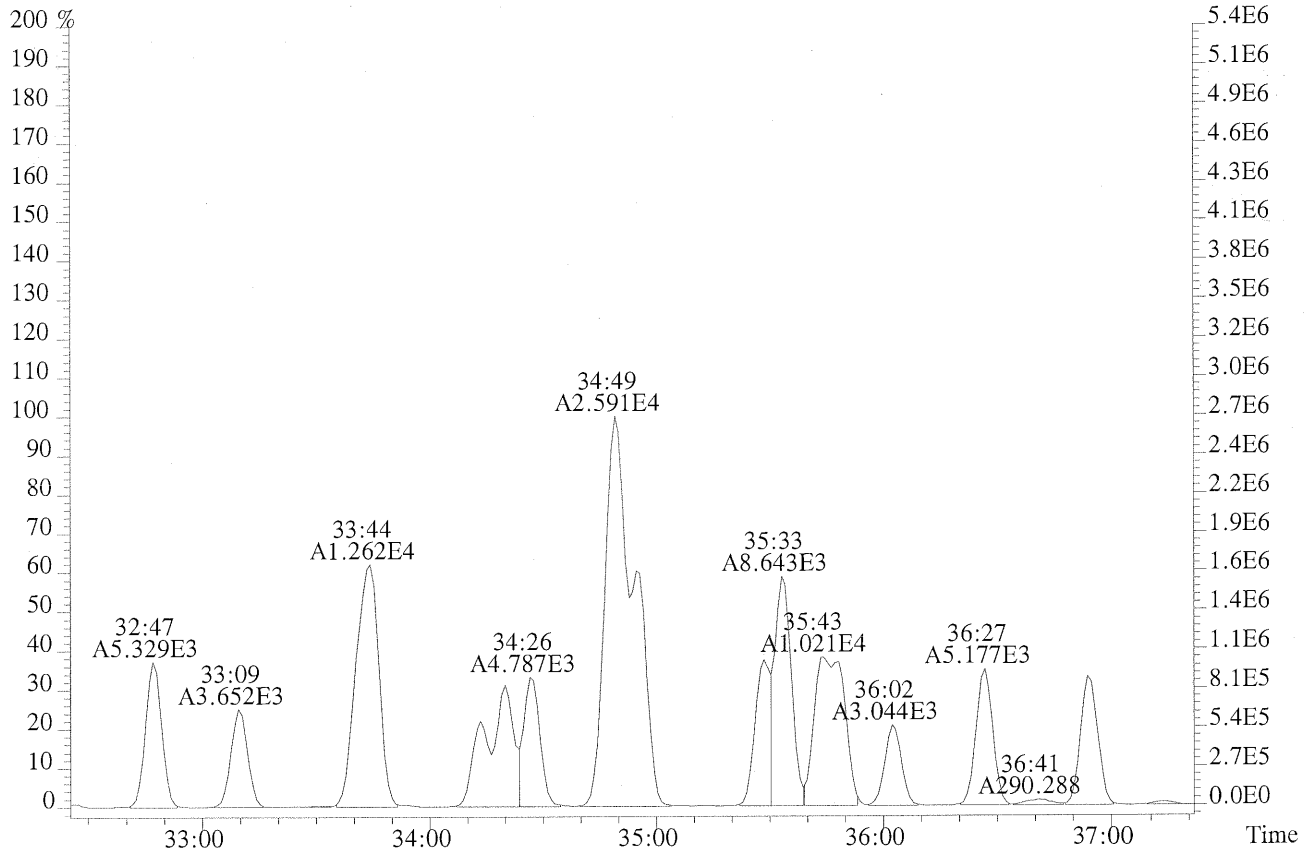
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)



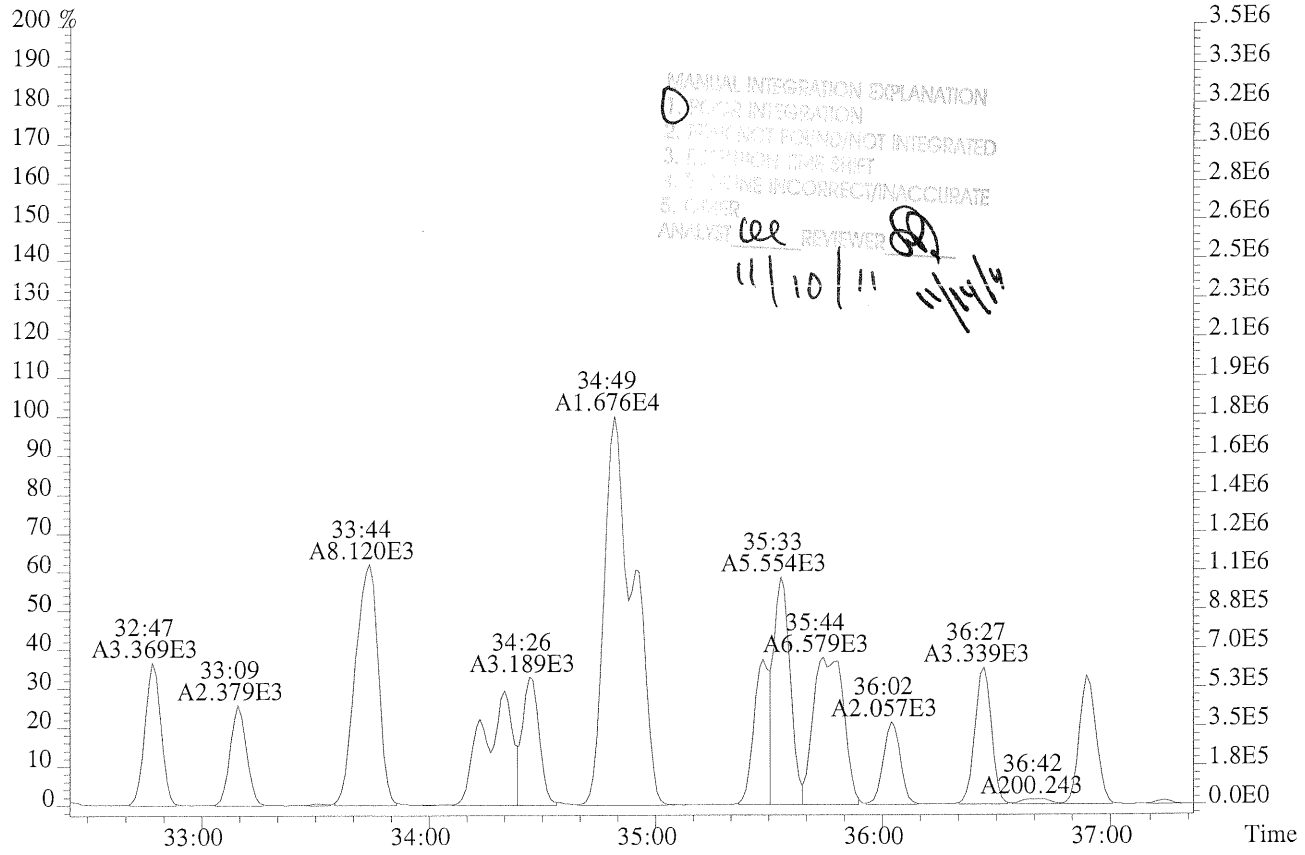
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142052 #1-316 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,948.0,1.00%,F,T)



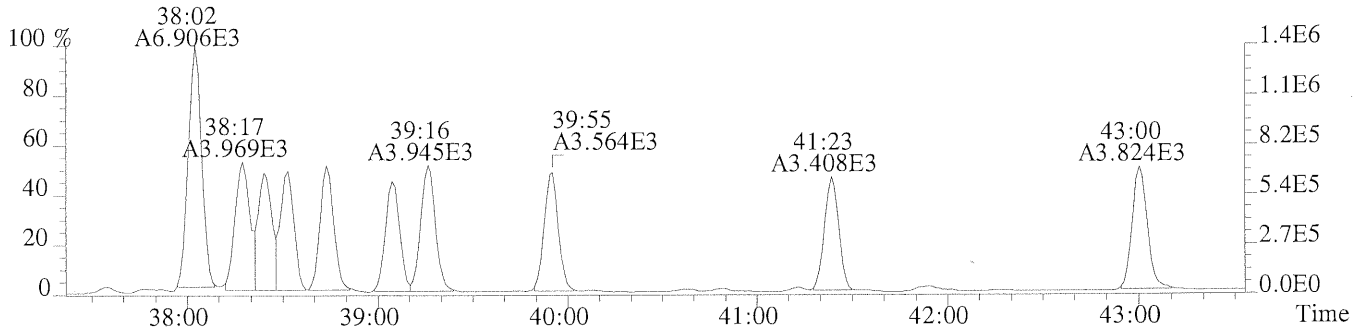
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1712.0,1.00%,F,T)



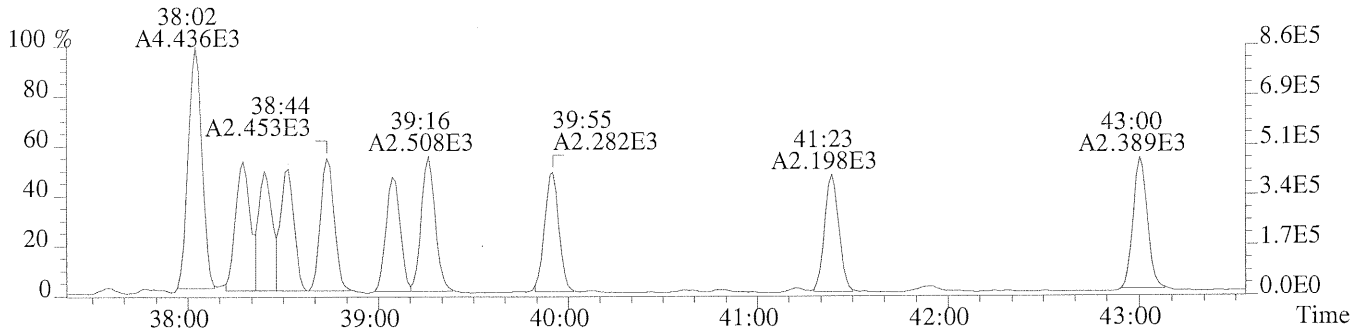
MANUAL INTEGRATION EXPLANATION
0 PROPER INTEGRATION
1. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST ee REVIEWER
11/10/11 11/14/11

File:U142052 #1-396 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

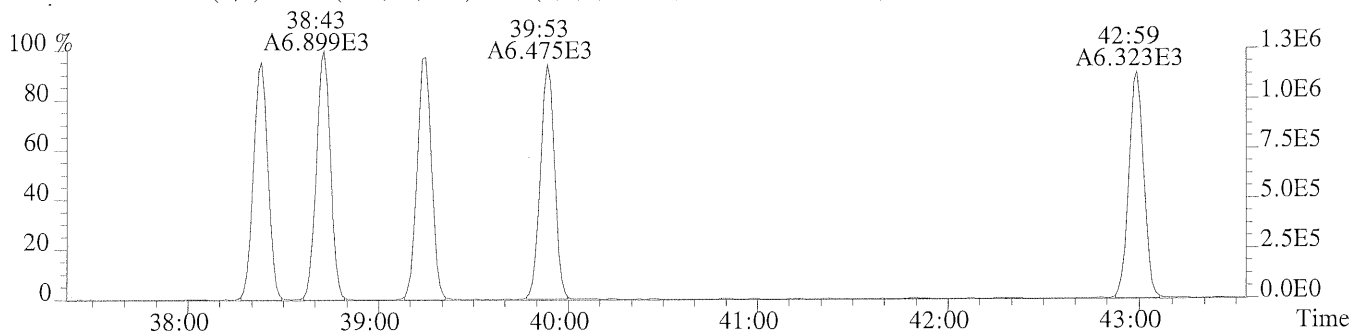
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,27932.0,1.00%,F,T)



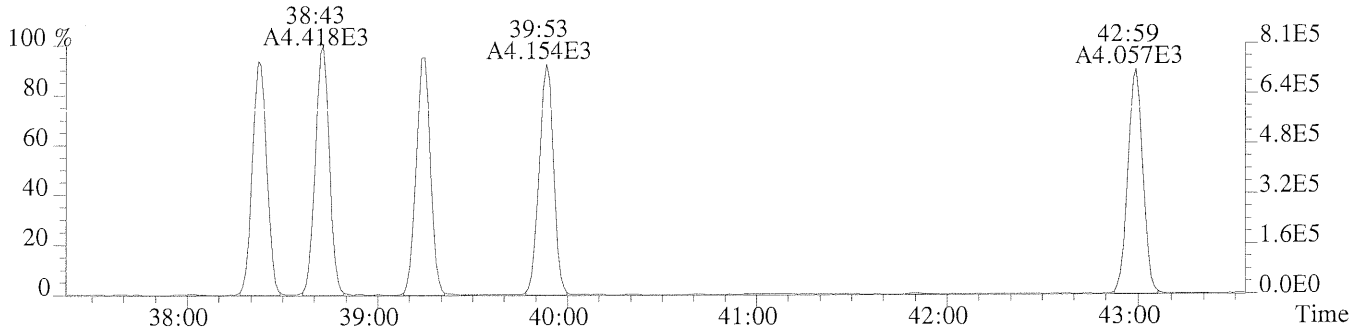
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,20012.0,1.00%,F,T)



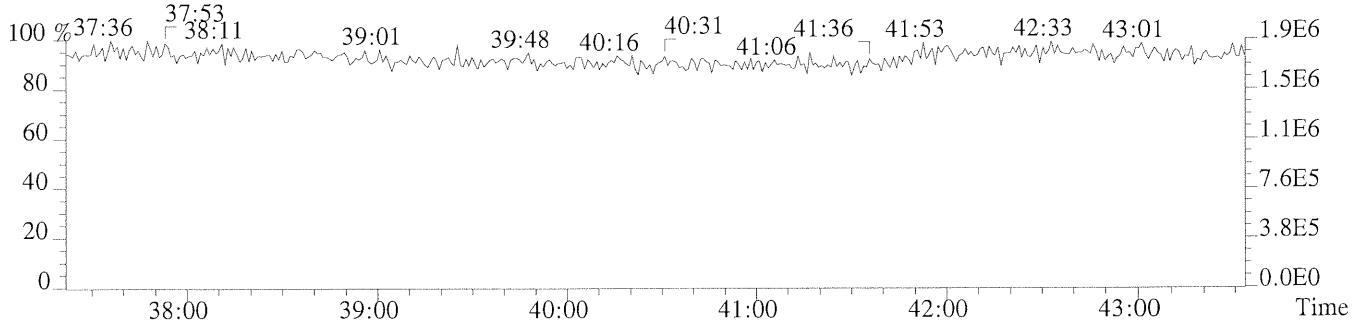
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1524.0,1.00%,F,T)



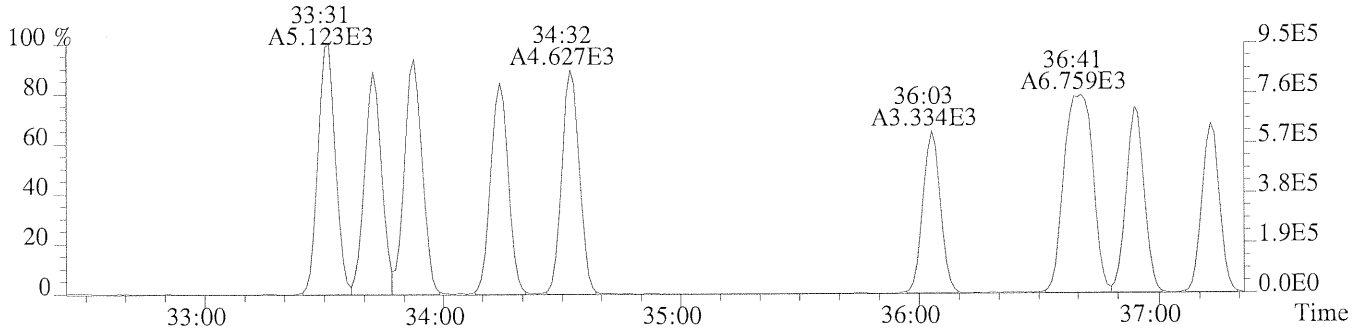
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1420.0,1.00%,F,T)



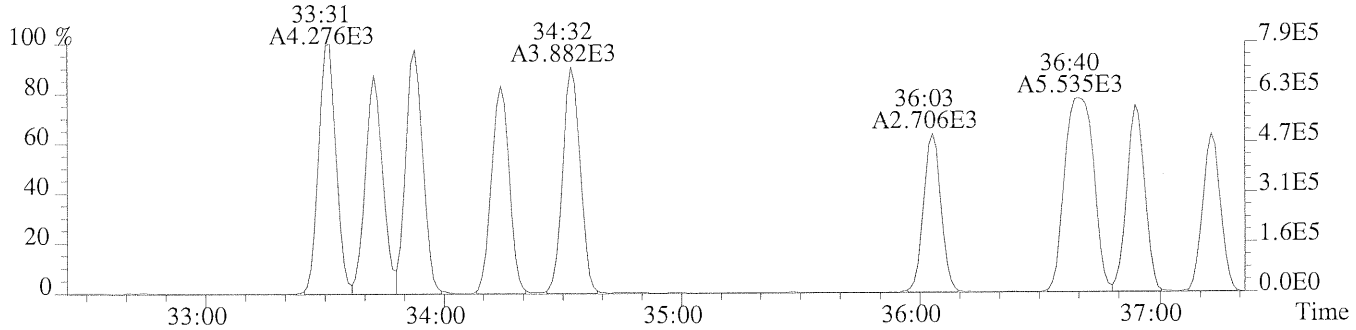
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



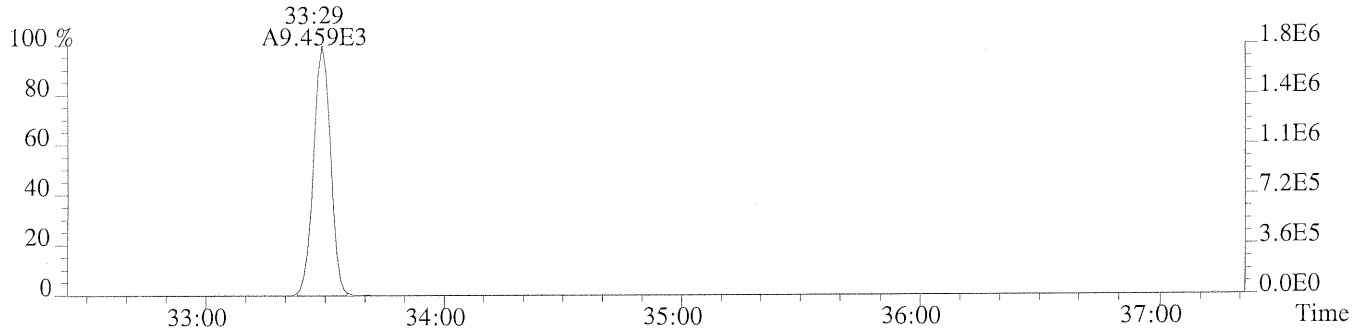
File:U142052 #1-316 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)



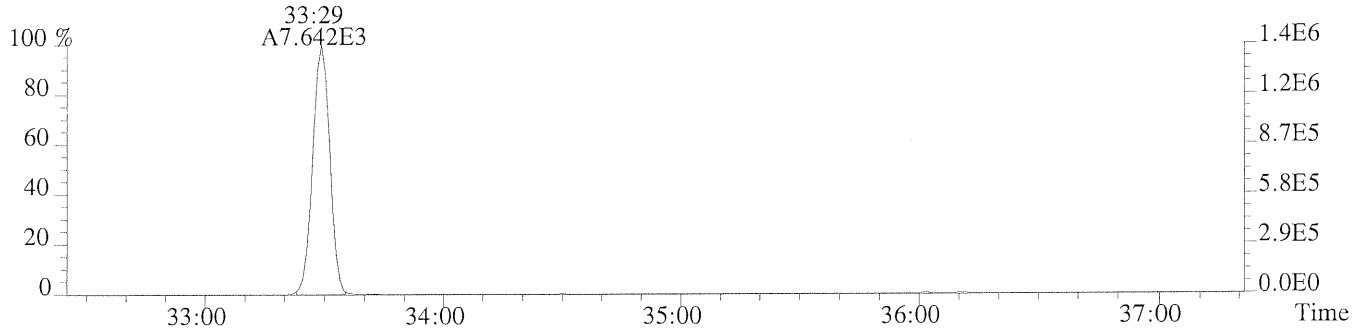
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,744.0,1.00%,F,T)



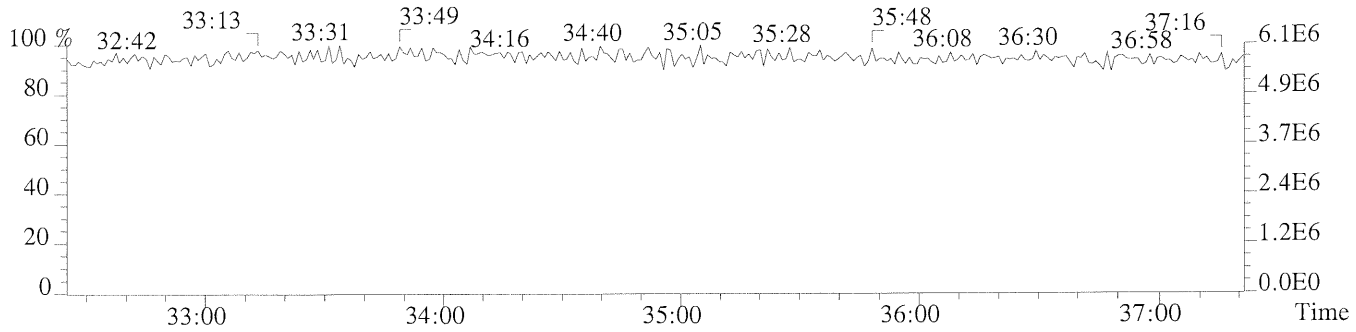
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1052.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1124.0,1.00%,F,T)

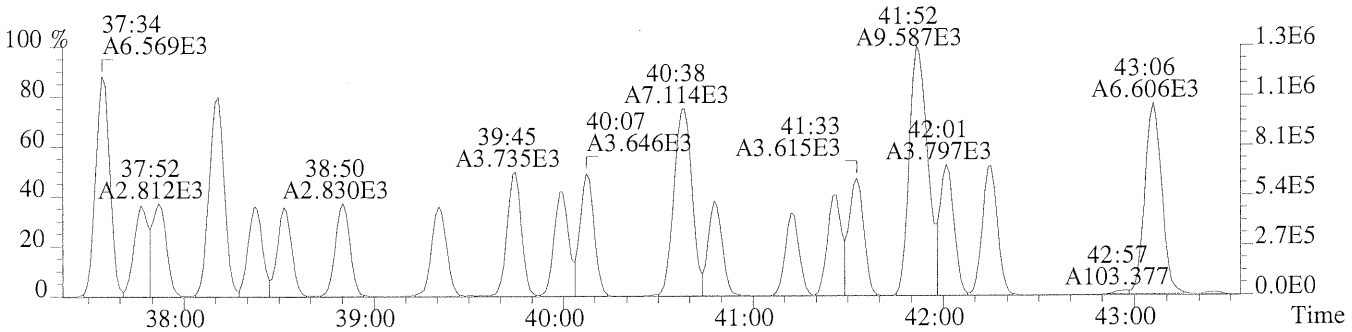


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

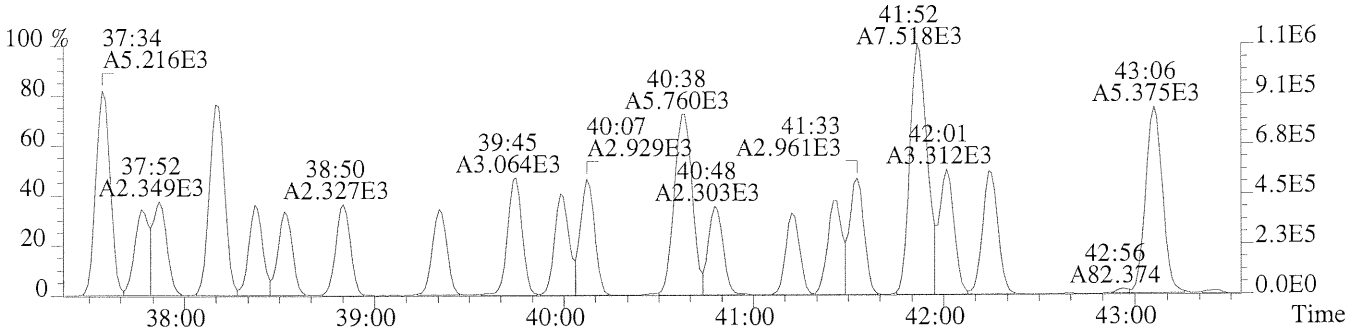


File:U142052 #1-396 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

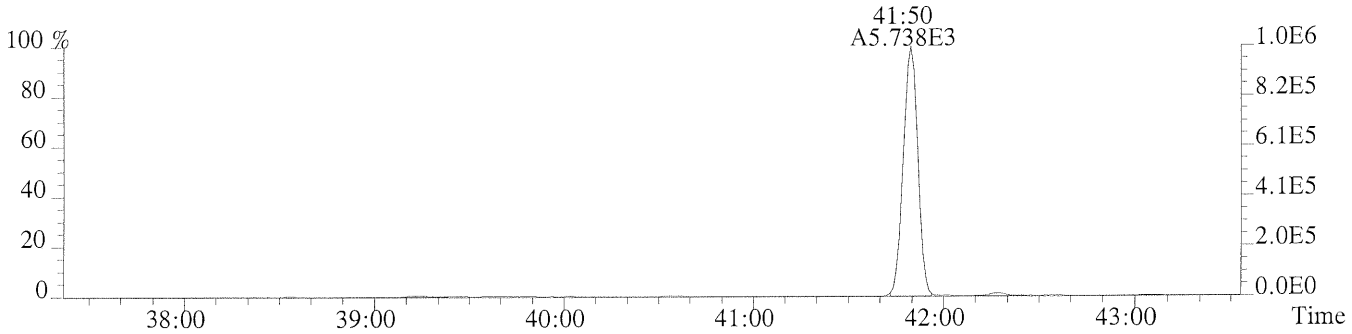
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2056.0,1.00%,F,T)



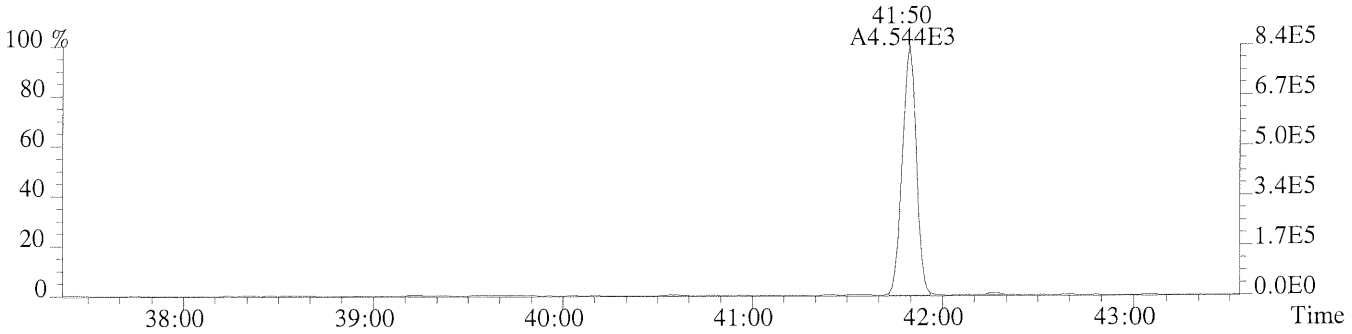
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2752.0,1.00%,F,T)



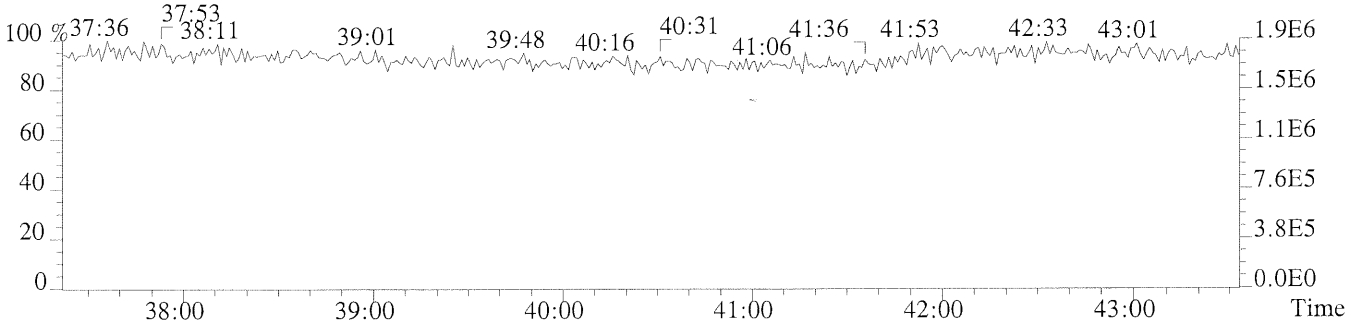
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1252.0,1.00%,F,T)

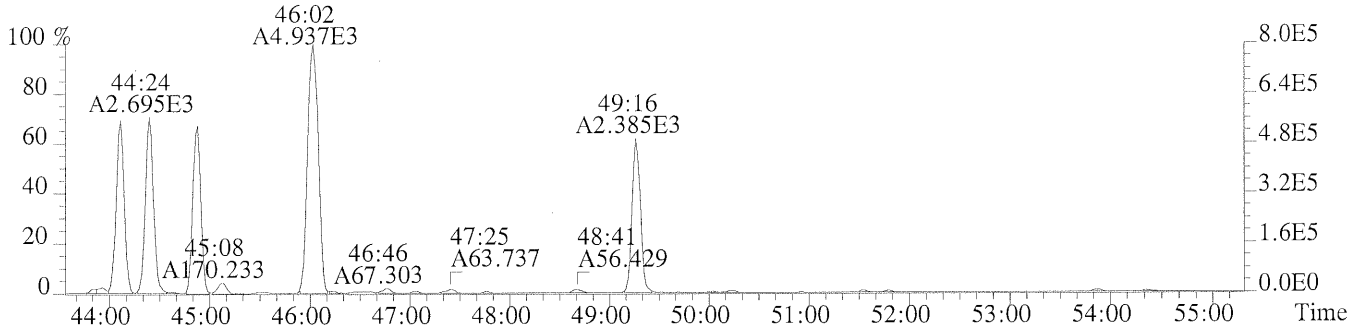


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

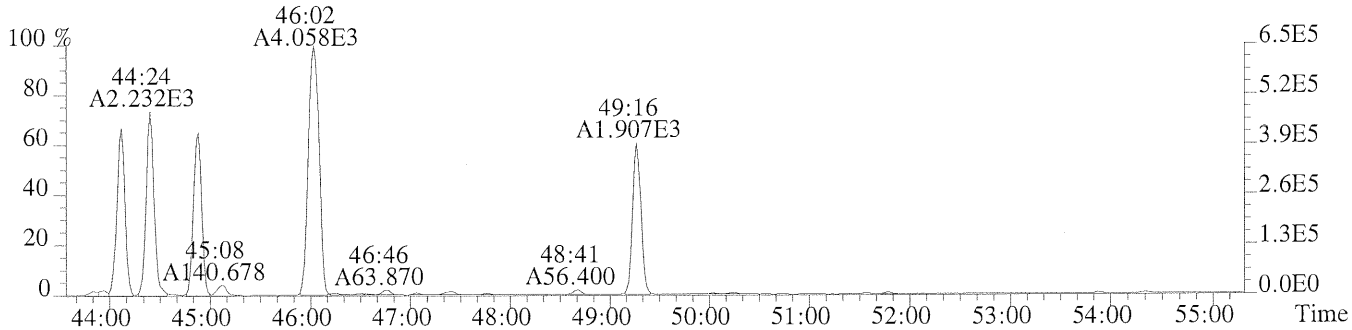


File:U142052 #1-582 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

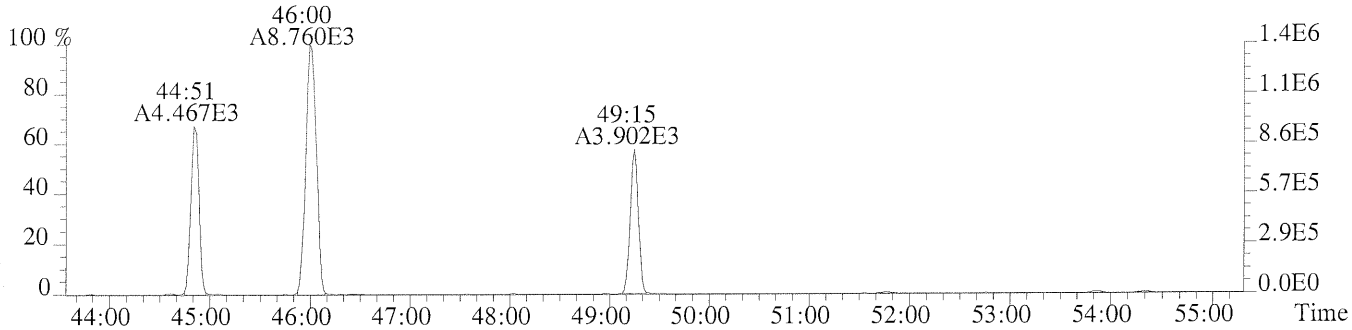
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2568.0,1.00%,F,T)



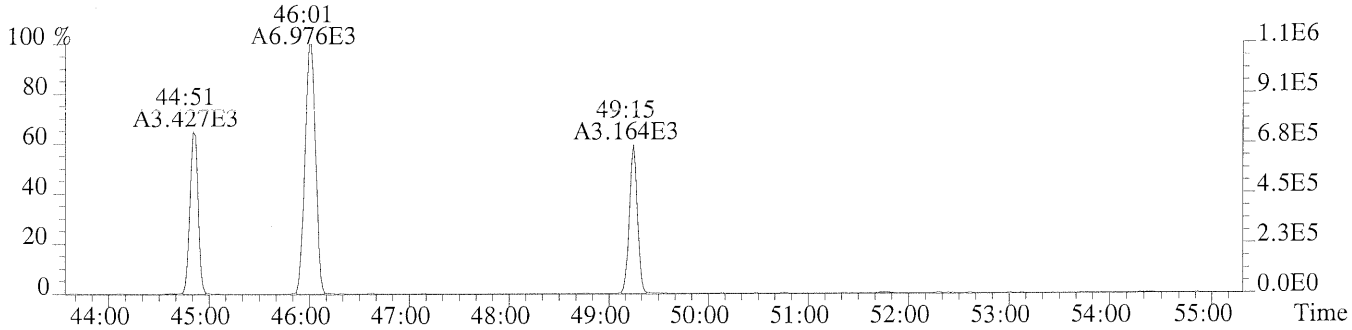
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1628.0,1.00%,F,T)



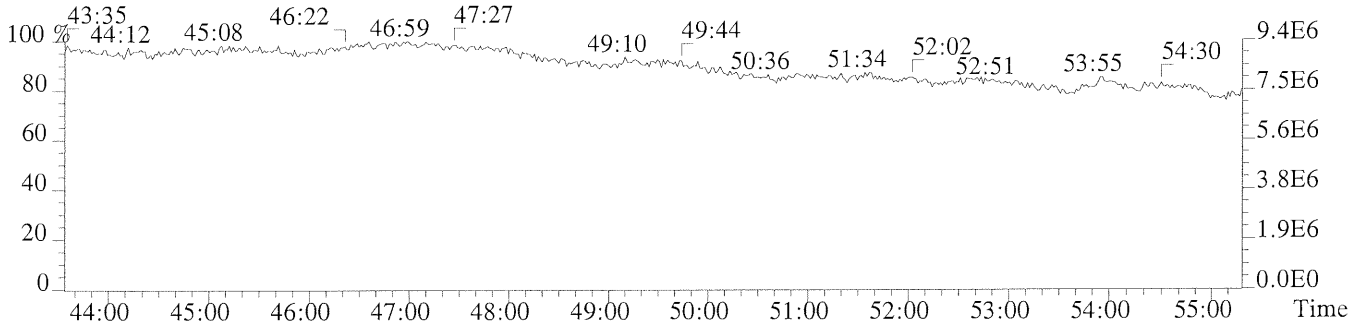
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1560.0,1.00%,F,T)



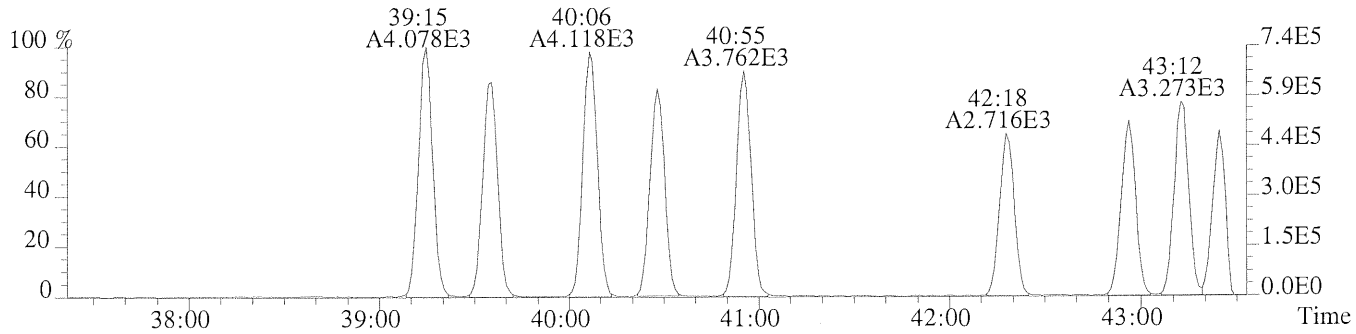
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1308.0,1.00%,F,T)



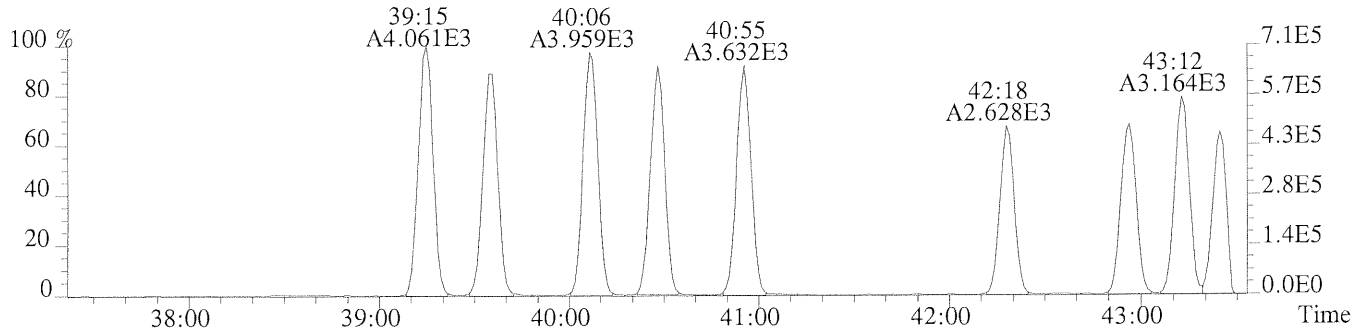
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



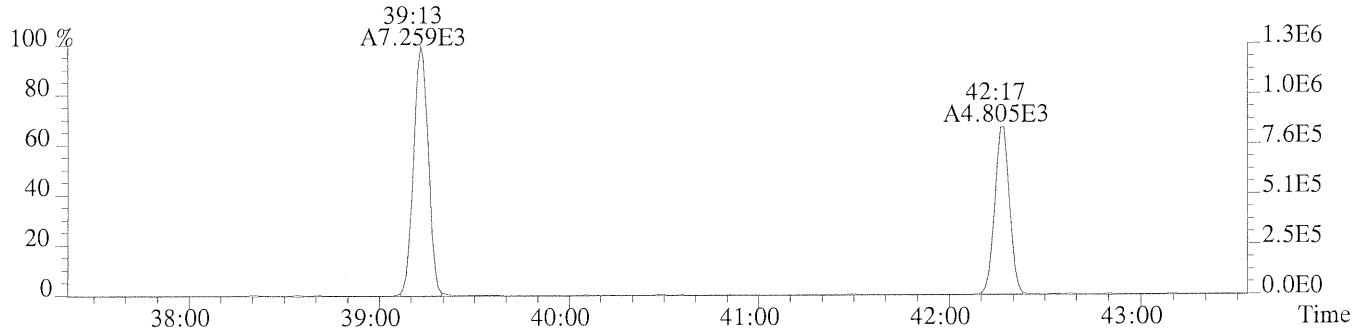
File:U142052 #1-396 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1428.0,1.00%,F,T)



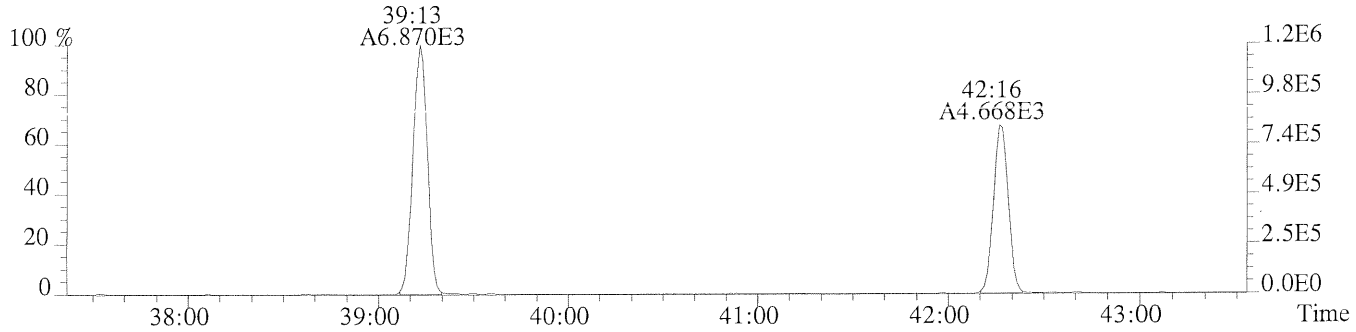
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



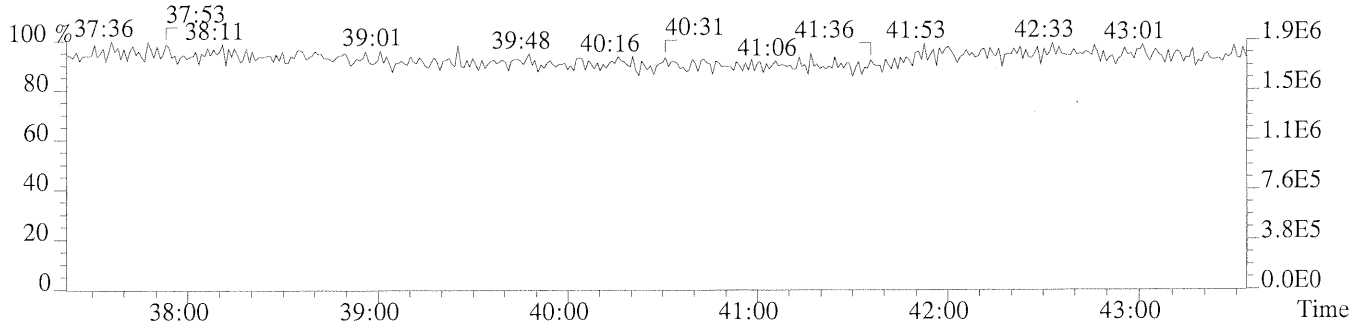
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1276.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1416.0,1.00%,F,T)

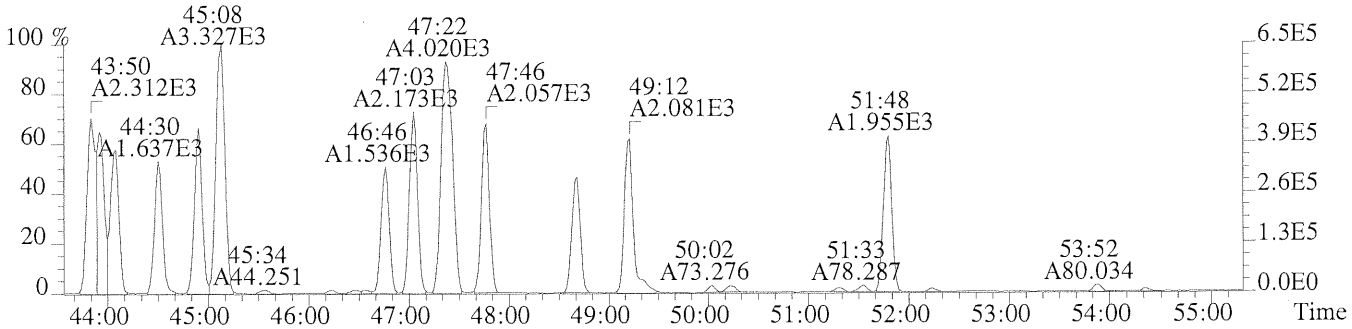


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

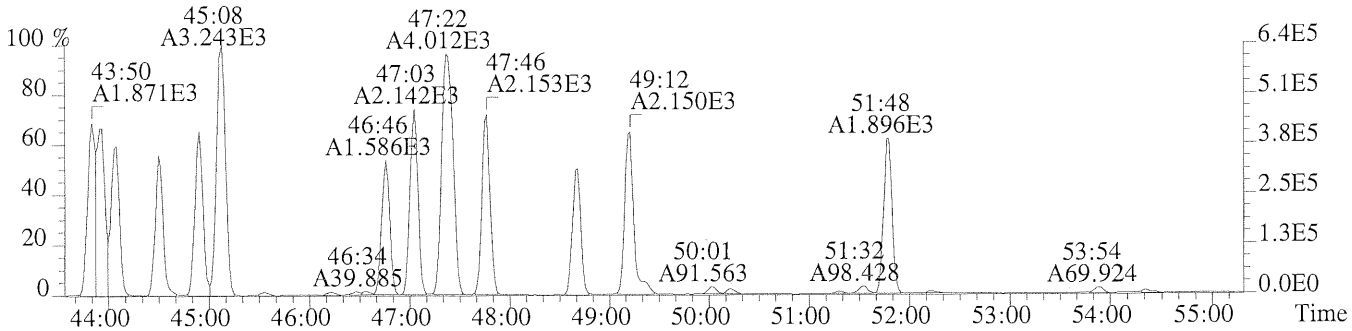


File:U142052 #1-582 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

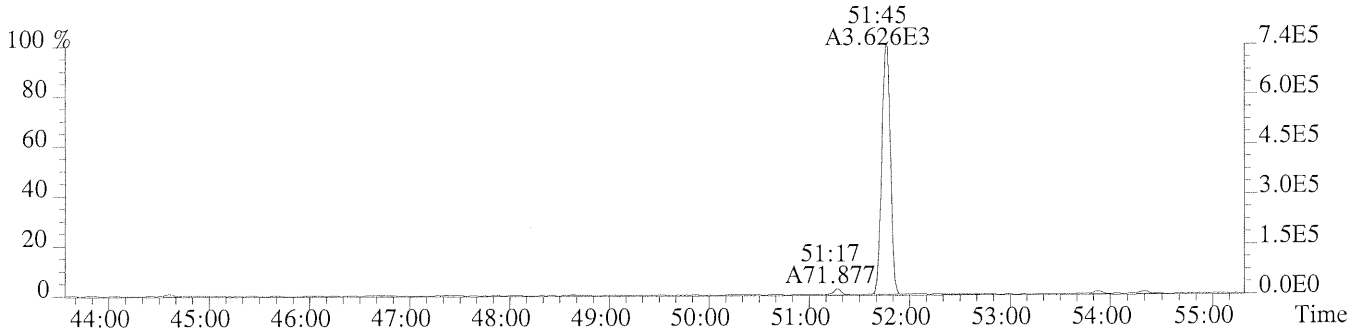
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1500.0,1.00%,F,T)



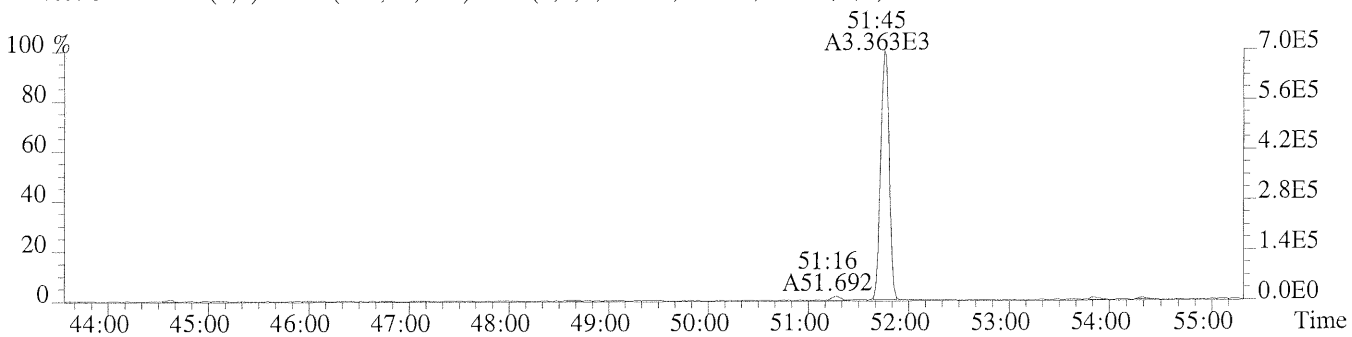
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1408.0,1.00%,F,T)



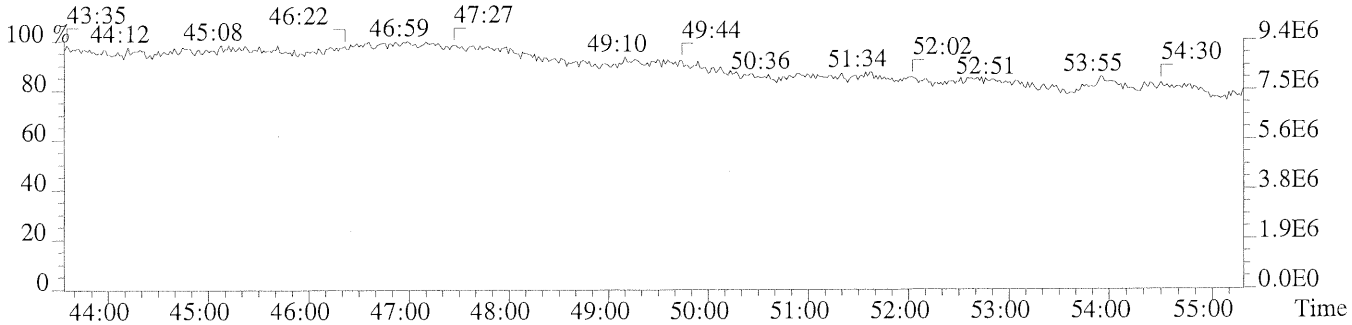
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1332.0,1.00%,F,T)



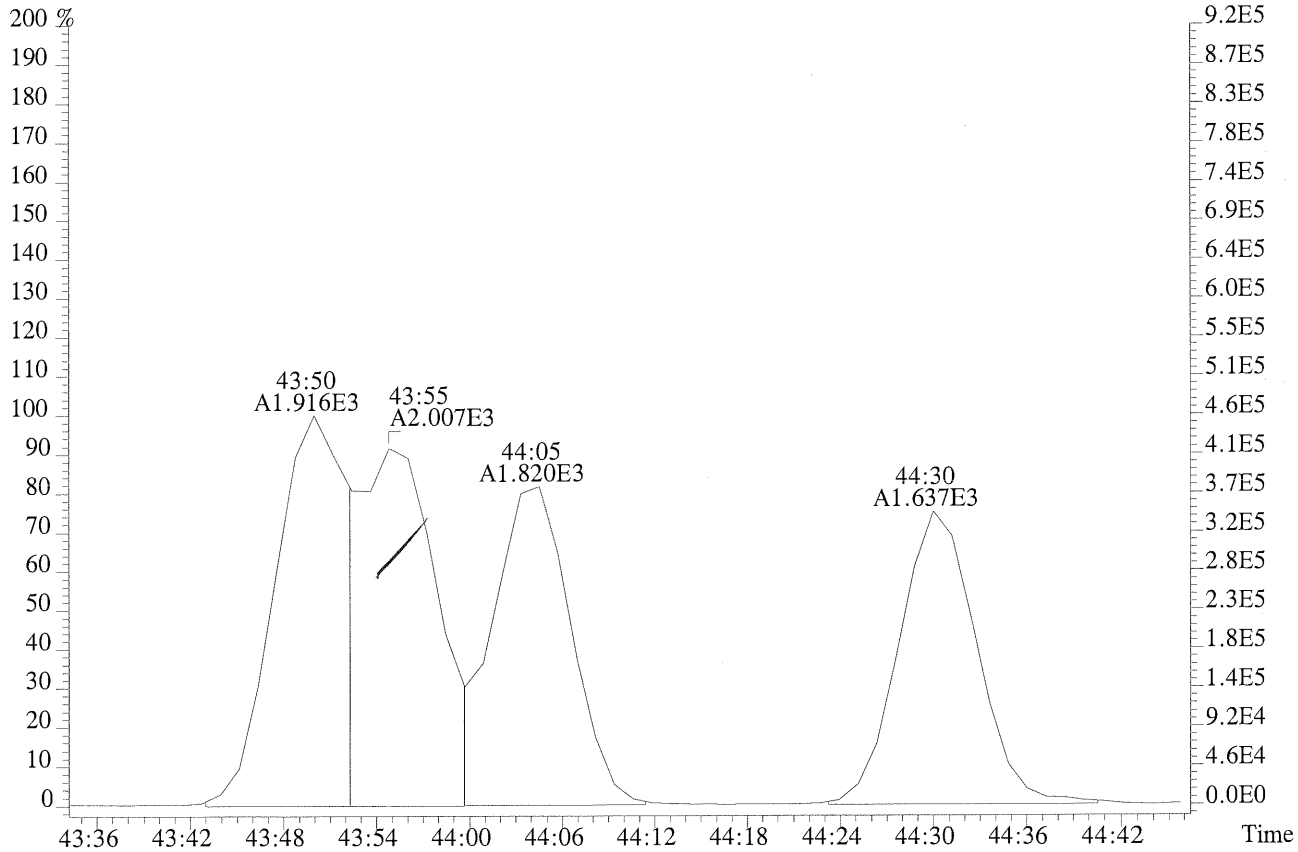
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)



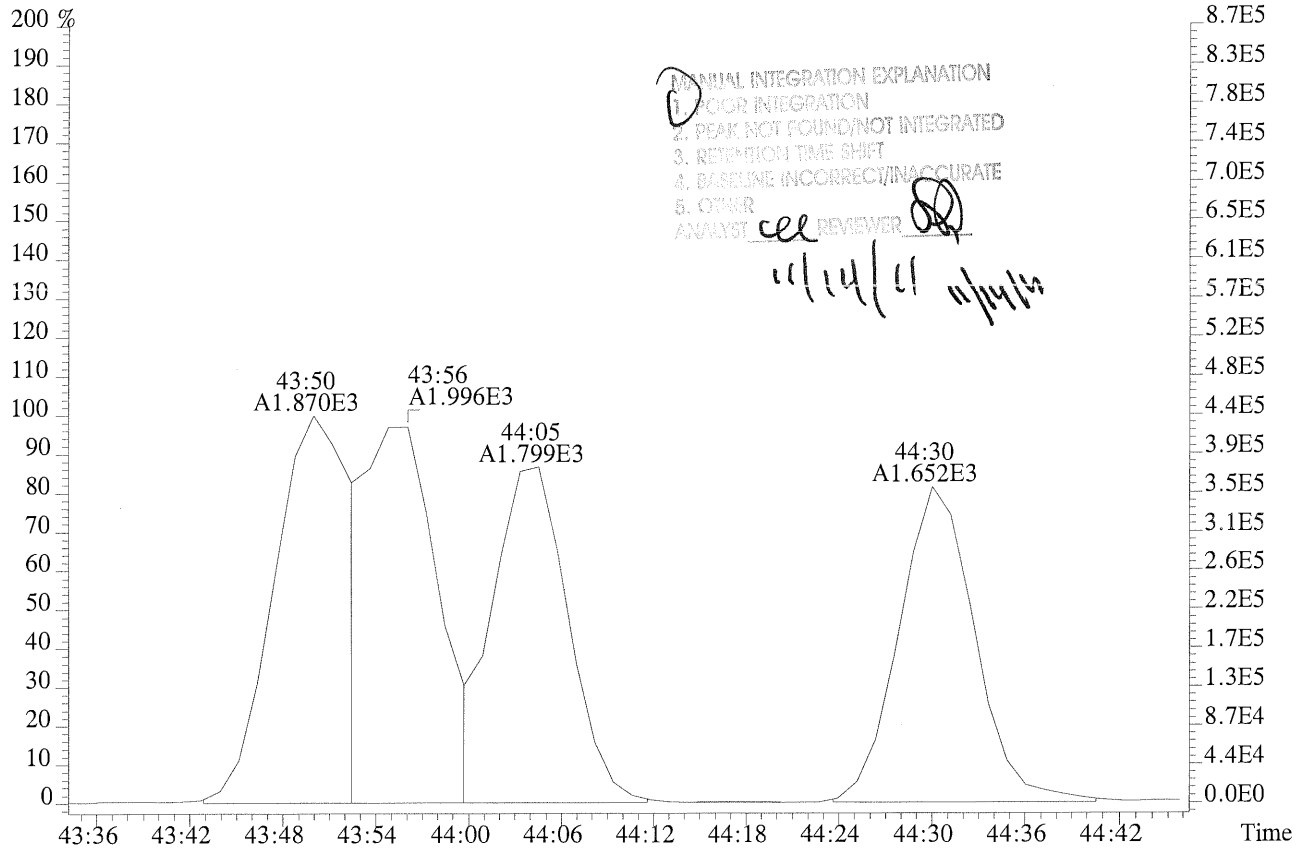
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142052 #1-582 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0)

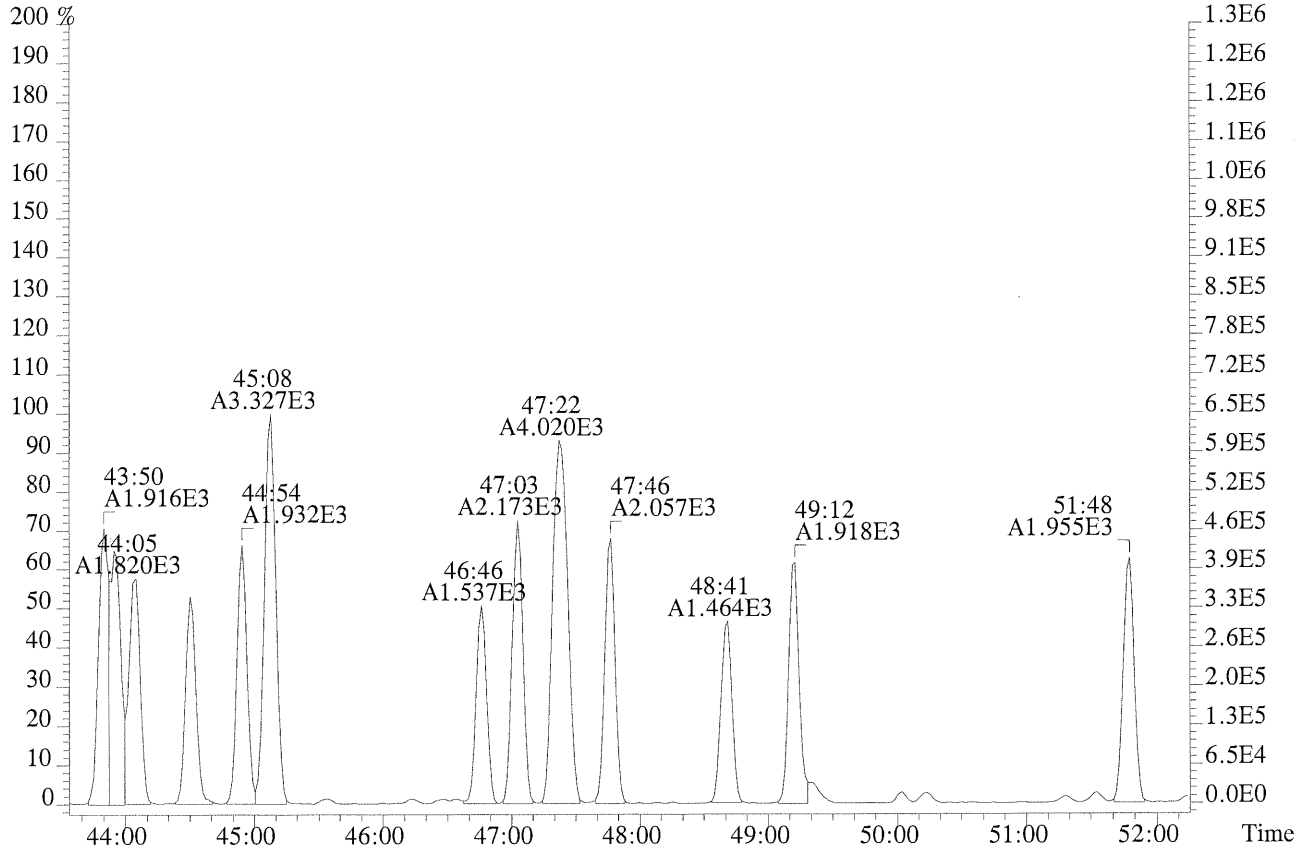


395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0)

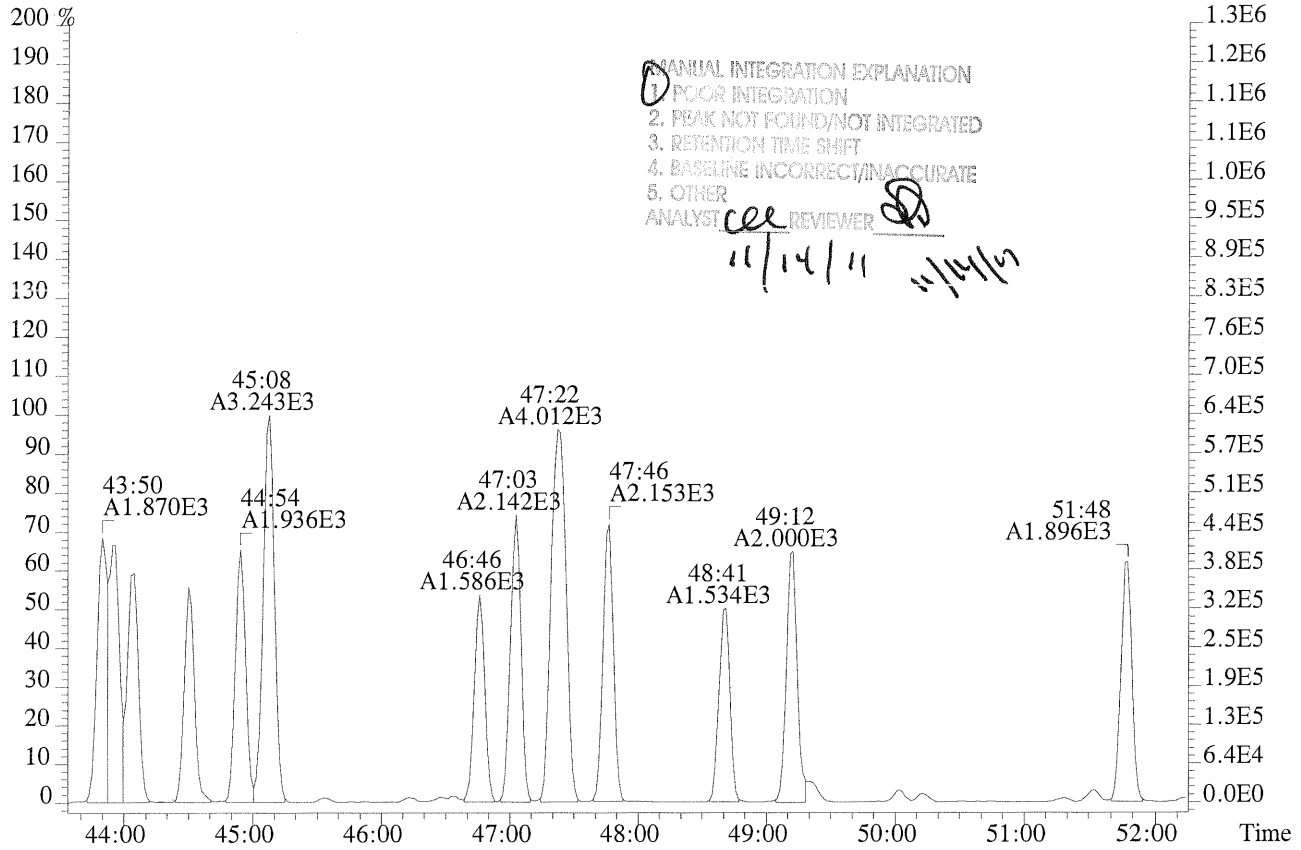


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cel REVIEWER
11/14/11 11/14/11

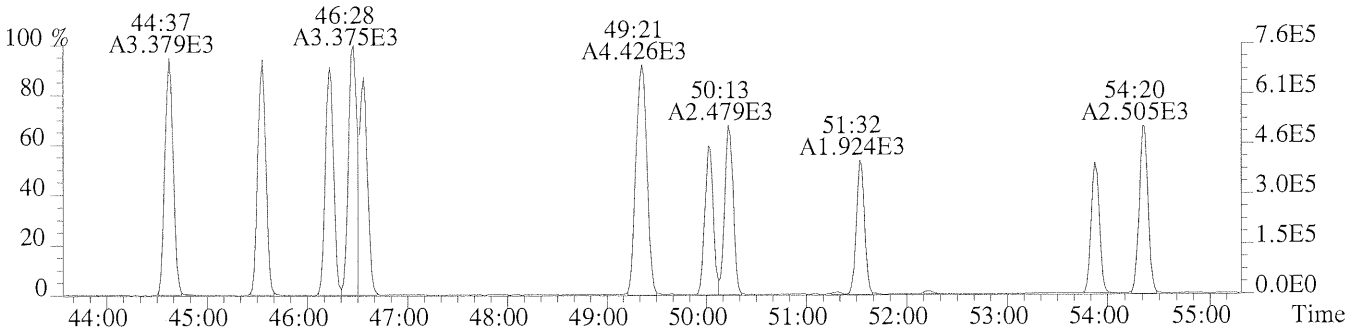
File:U142052 #1-582 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0)



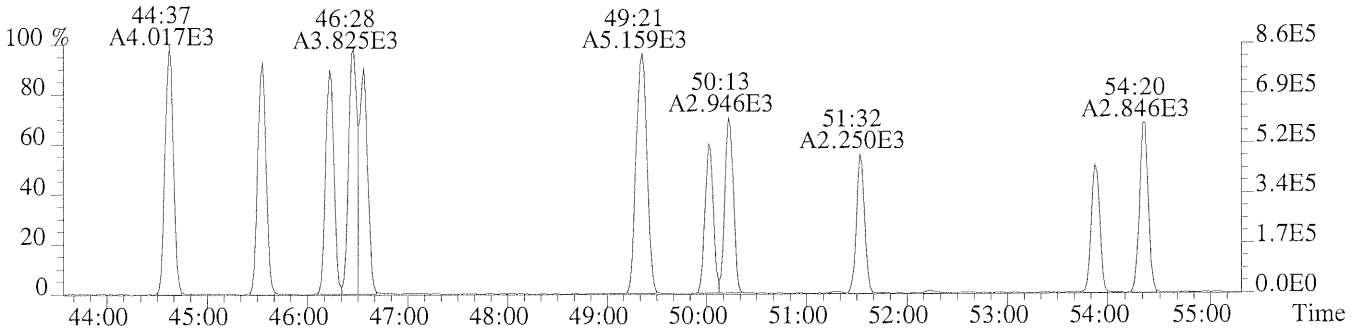
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0)



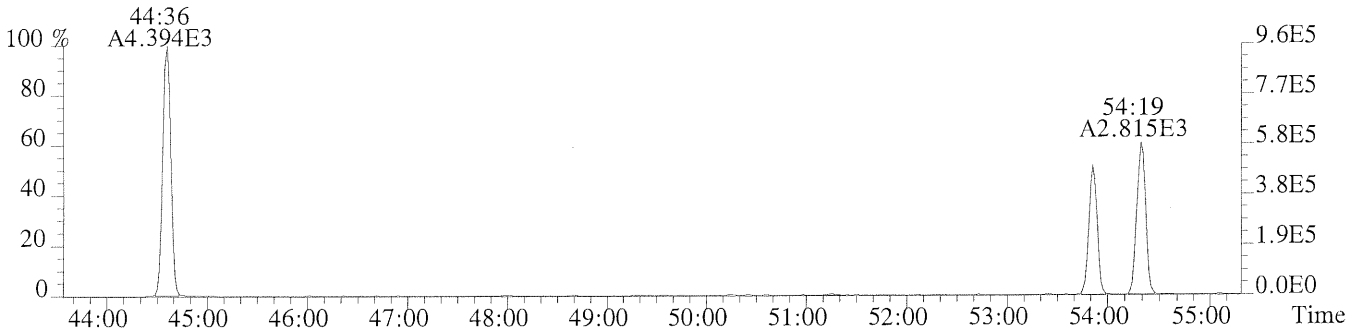
File:U142052 #1-582 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1692.0,1.00%,F,T)



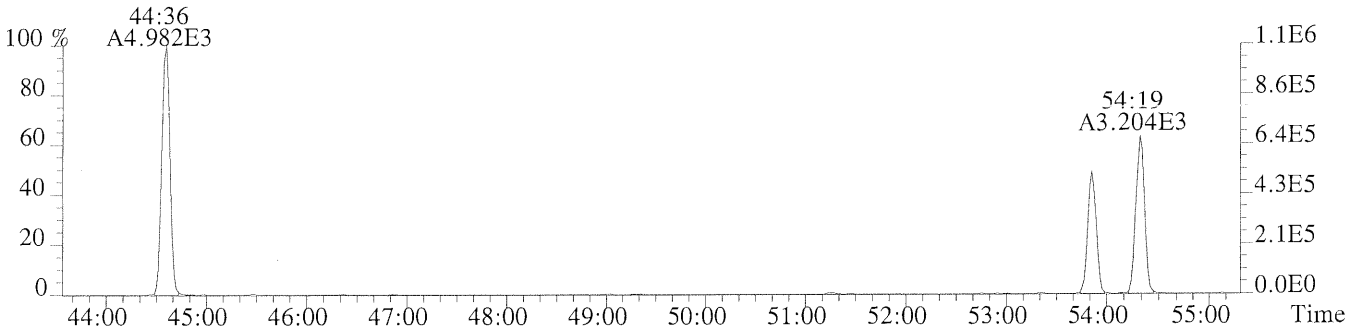
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1552.0,1.00%,F,T)



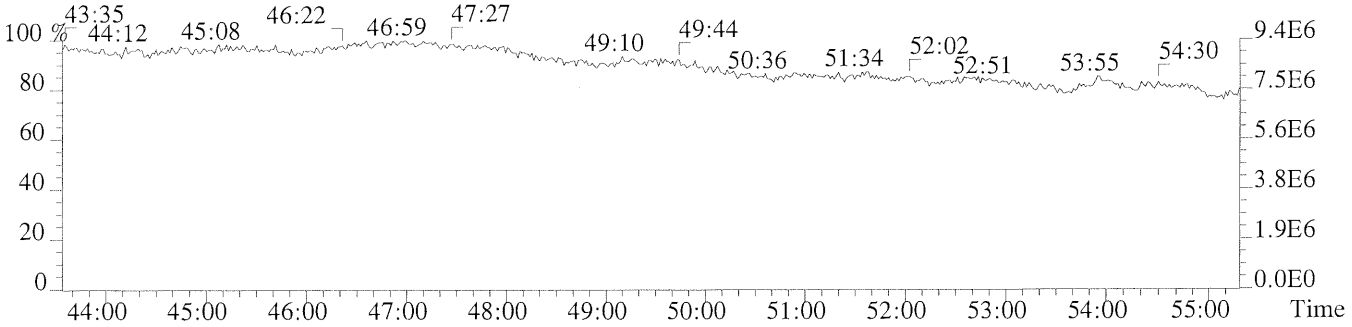
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1132.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)

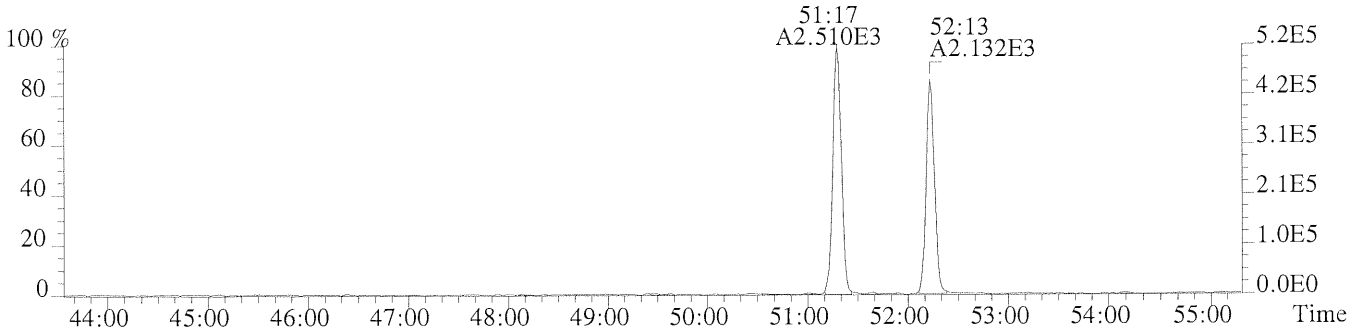


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

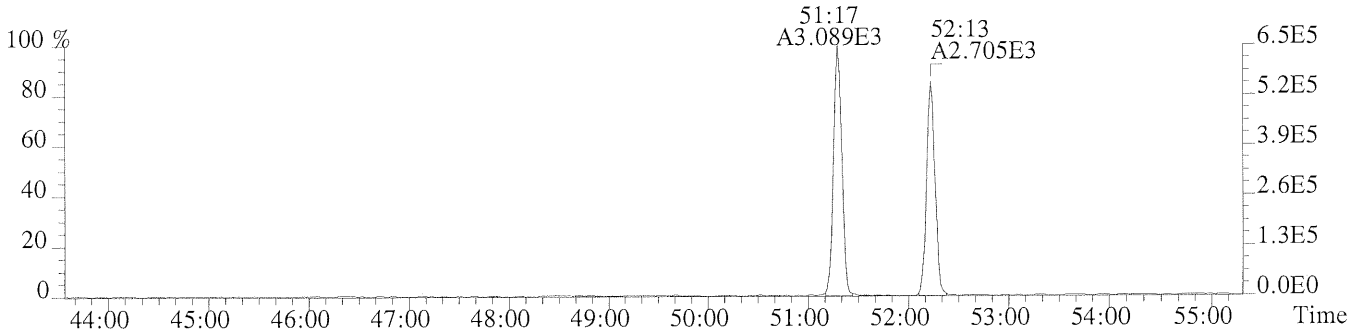


File:U142052 #1-582 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

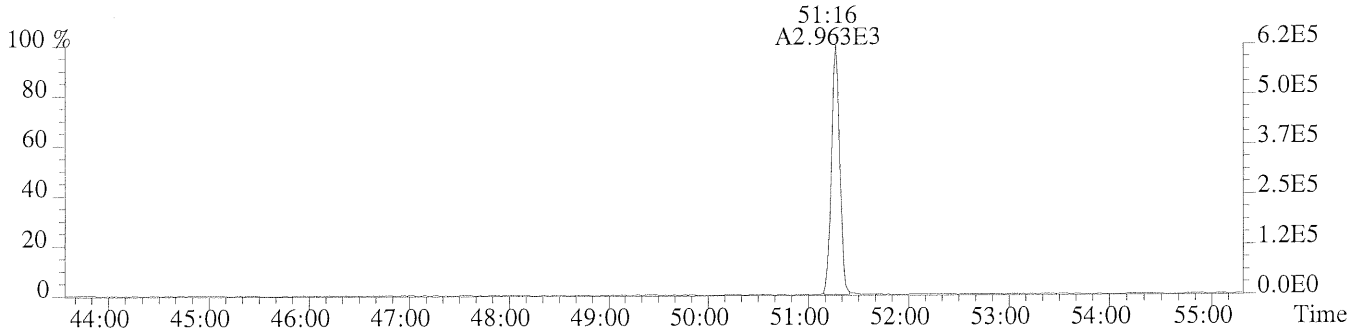
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1340.0,1.00%,F,T)



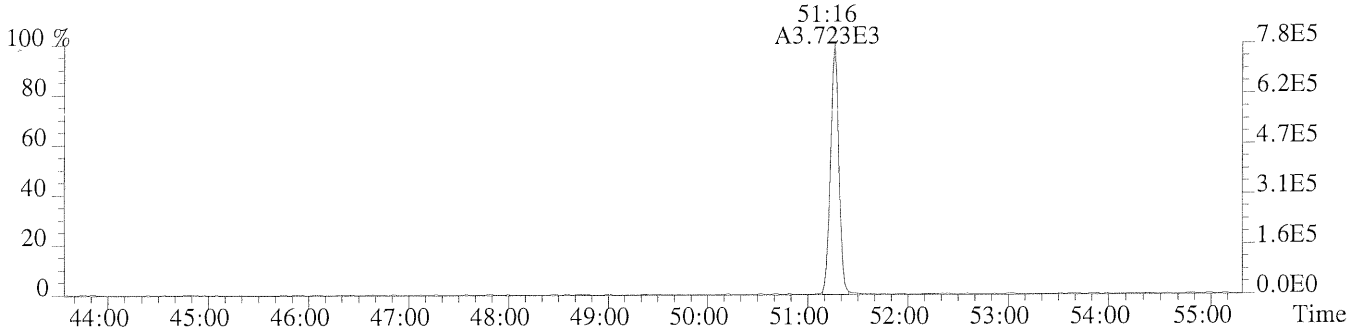
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1144.0,1.00%,F,T)



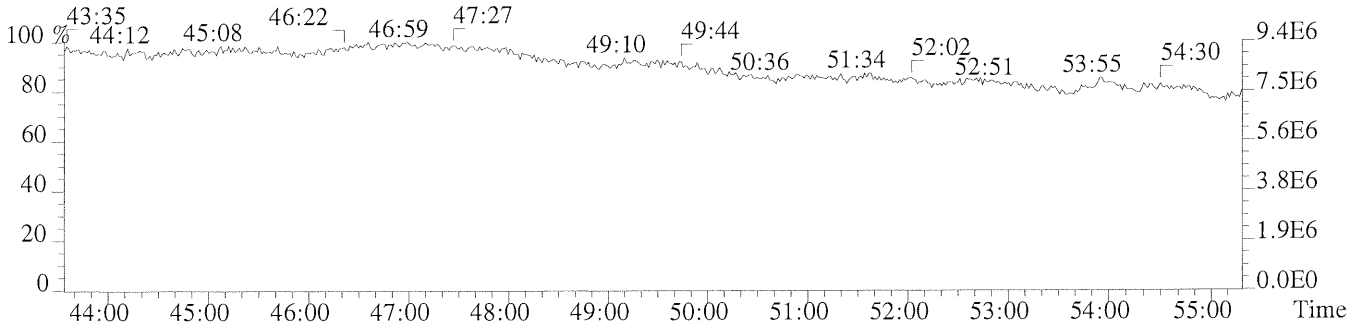
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,956.0,1.00%,F,T)

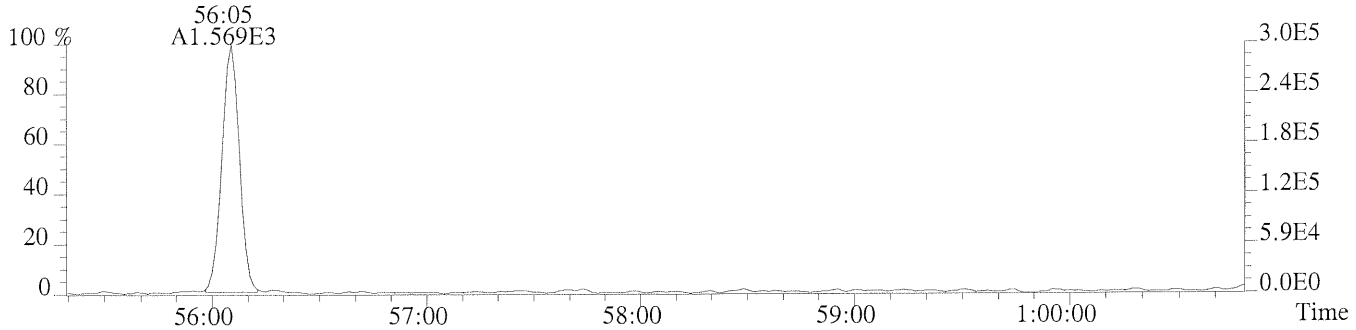


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

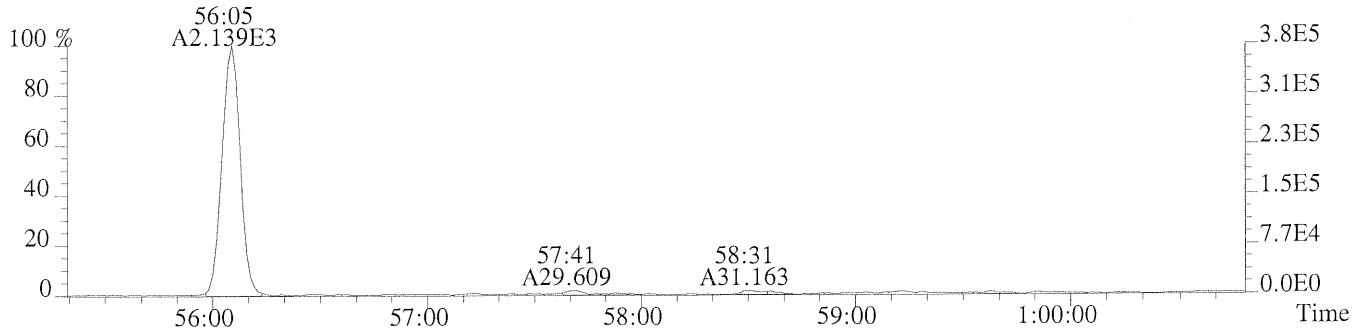


File:U142052 #1-310 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

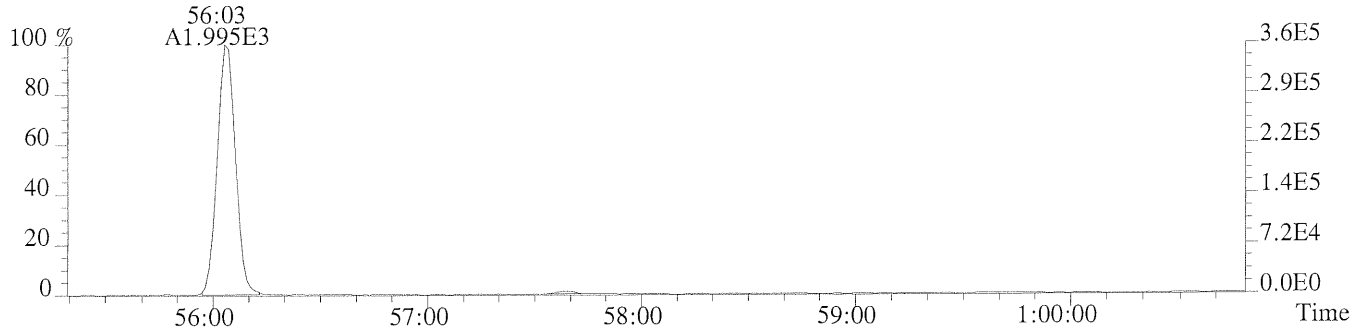
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2648.0,1.00%,F,T)



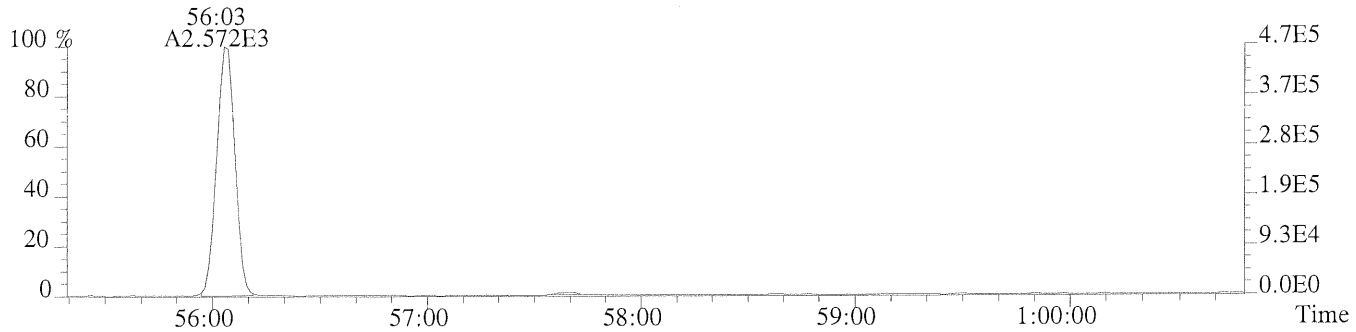
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1608.0,1.00%,F,T)



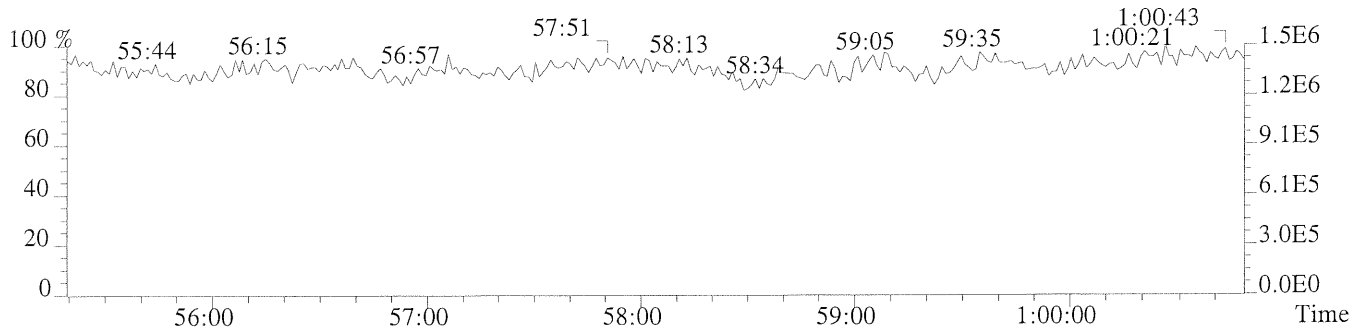
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,736.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1324.0,1.00%,F,T)

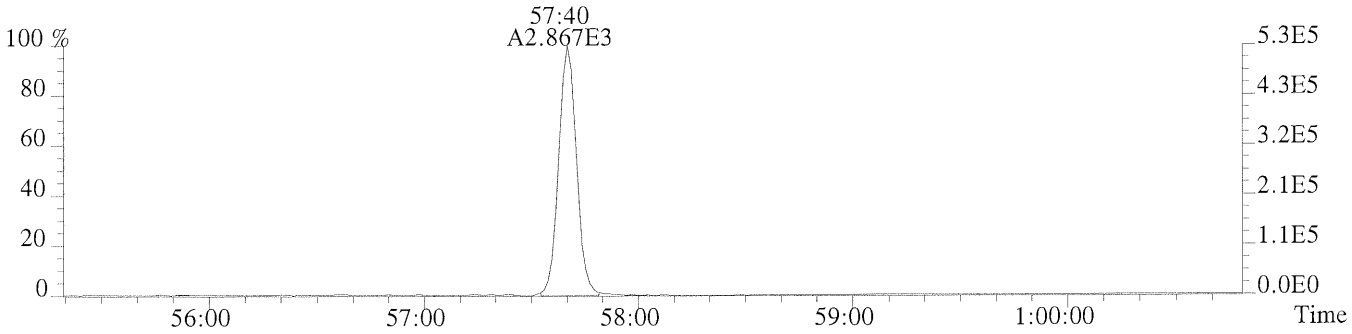


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

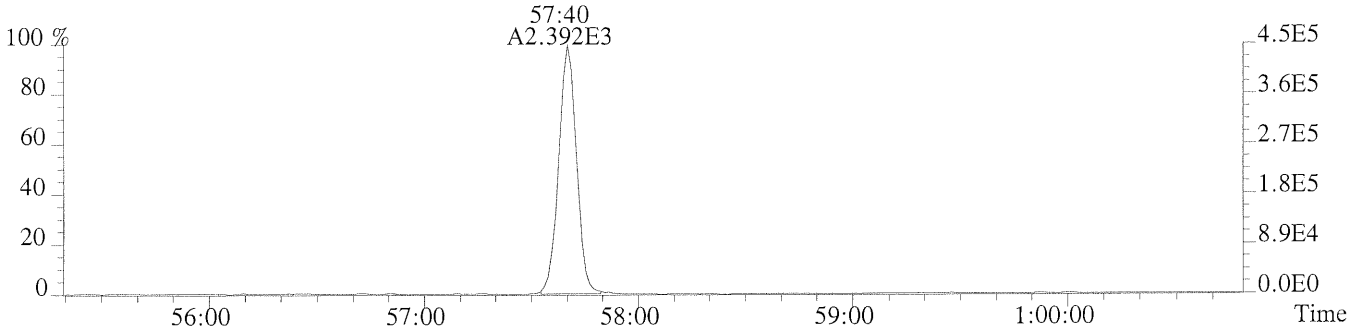


File:U142052 #1-310 Acq: 7-NOV-2011 05:12:59 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

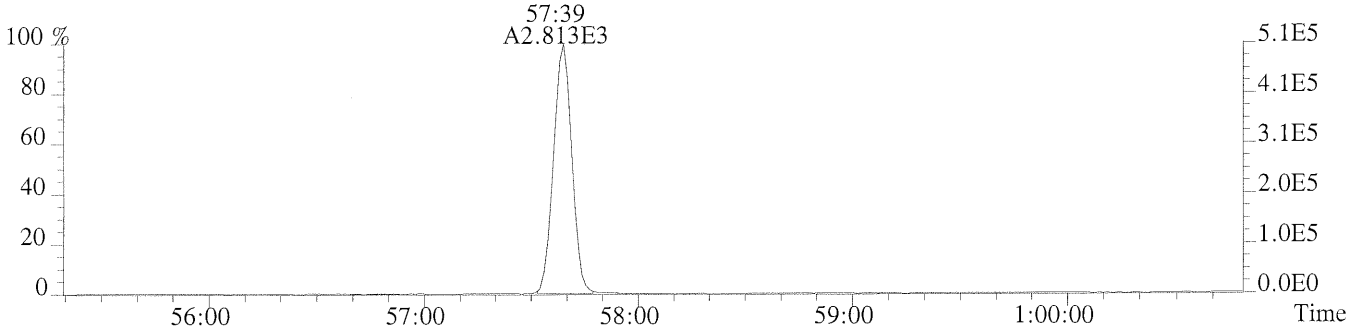
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1572.0,1.00%,F,T)



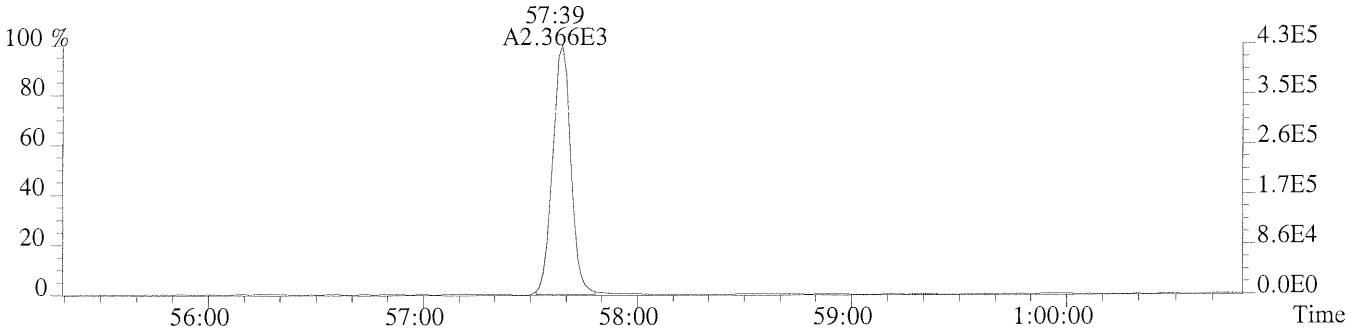
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1700.0,1.00%,F,T)



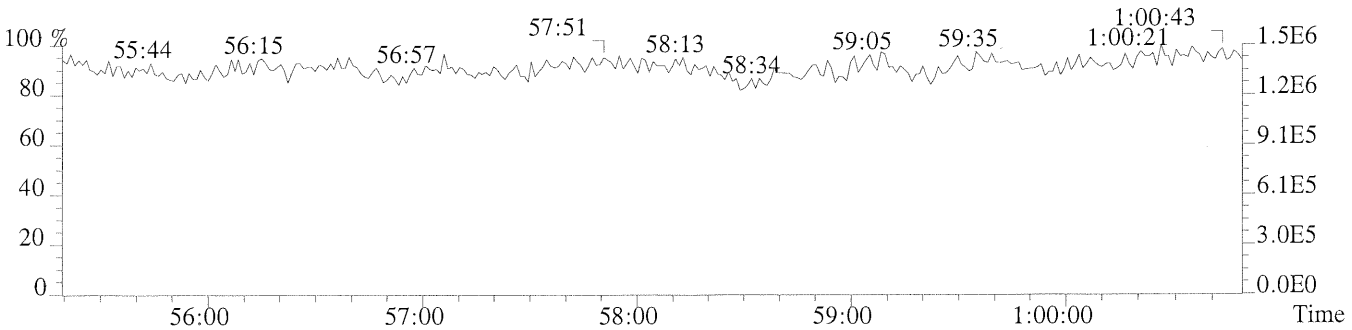
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1136.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



FORM 4A
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142053 Analysis Date: 7-NOV-11 Time: 06:40:39

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2-MoCB	M/M+2	3.07	2.66-3.60	42.3	35.0 - 65.0
4-MoCB	M/M+2	3.05	2.66-3.60	43.7	35.0 - 65.0
22'-DiCB	M/M+2	1.50	1.33-1.79	50.3	35.0 - 65.0
44'-DiCB	M/M+2	1.57	1.33-1.79	44.5	35.0 - 65.0
22'6'-TrCB	M/M+2	1.00	0.88-1.20	48.9	35.0 - 65.0
344'-TrCB	M/M+2	1.01	0.88-1.20	45.3	35.0 - 65.0
22'66'-TeCB	M/M+2	0.75	0.65-0.89	52.7	35.0 - 65.0
344'5-TeCB	M/M+2	0.79	0.65-0.89	47.5	35.0 - 65.0
33'44'-TeCB	M/M+2	0.79	0.65-0.89	48.2	35.0 - 65.0
22'466'-PeCB	M+2/M+4	1.54	1.32-1.78	47.4	35.0 - 65.0
2'344'5-PeCB	M+2/M+4	1.51	1.32-1.78	44.9	35.0 - 65.0
23'44'5-PeCB	M+2/M+4	1.45	1.32-1.78	45.5	35.0 - 65.0
2344'5-PeCB	M+2/M+4	1.50	1.32-1.78	47.7	35.0 - 65.0
233'44'-PeCB	M+2/M+4	1.55	1.32-1.78	46.6	35.0 - 65.0
33'44'5-PeCB	M+2/M+4	1.55	1.32-1.78	46.8	35.0 - 65.0
22'44'66'-HxCB	M+2/M+4	1.25	1.05-1.43	48.9	35.0 - 65.0
23'44'55'-HxCB	M+2/M+4	1.19	1.05-1.43	46.8	35.0 - 65.0
233'44'5-HxCB	M+2/M+4	1.25	1.05-1.43	94.2	70.0 -130.0
33'44'55'-HxCB	M+2/M+4	1.16	1.05-1.43	49.7	35.0 - 65.0
22'34'566'-HpCB	M+2/M+4	1.05	0.89-1.21	50.7	35.0 - 65.0
233'44'55'-HpCB	M+2/M+4	1.00	0.89-1.21	56.1	35.0 - 65.0
22'33'55'66'-OcCB	M+2/M+4	0.85	0.76-1.02	53.5	35.0 - 65.0
233'44'55'6-OcCB	M+2/M+4	0.88	0.76-1.02	50.2	35.0 - 65.0
22'33'4'55'66'-NoCB	M+2/M+4	0.77	0.65-0.89	55.6	35.0 - 65.0
22'33'44'55'6-NoCB	M+2/M+4	0.77	0.65-0.89	51.1	35.0 - 65.0
DeCB	M+4/M+6	1.19	0.99-1.33	53.9	35.0 - 65.0

(1) See Table 7, Method 1668A, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

(3) Contract-required concentration range as specified in Table 6, Method 1668A, under VER.

SP1668F4A

FORM 4B
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142053 Analysis Date: 7-NOV-11 Time: 06:40:39

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
LABELED COMPOUNDS					
13C-2-MoCB	M/M+2	2.96	2.66-3.60	109.5	50.0 - 150.0
13C-4-MoCB	M/M+2	3.11	2.66-3.60	113.2	50.0 - 150.0
13C-22'-DiCB	M/M+2	1.50	1.33-1.79	127.1	50.0 - 150.0
13C-44'-DiCB	M/M+2	1.55	1.33-1.79	111.2	50.0 - 150.0
13C-22'6'-TrCB	M/M+2	1.02	0.88-1.20	134.2	50.0 - 150.0
13C-344'-TrCB	M/M+2	1.05	0.88-1.20	88.1	50.0 - 150.0
13C-22'66'-TeCB	M/M+2	0.79	0.65-0.89	100.2	50.0 - 150.0
13C-344'5-TeCB	M/M+2	0.81	0.65-0.89	92.2	50.0 - 150.0
13C-33'44'-TeCB	M/M+2	0.80	0.65-0.89	88.7	50.0 - 150.0
13C-22'466'-PeCB	M+2/M+4	1.54	1.32-1.78	102.1	50.0 - 150.0
13C-2'344'5-PeCB	M+2/M+4	1.54	1.32-1.78	86.2	50.0 - 150.0
13C-23'44'5-PeCB	M+2/M+4	1.57	1.32-1.78	85.3	50.0 - 150.0
13C-2344'5-PeCB	M+2/M+4	1.57	1.32-1.78	81.4	50.0 - 150.0
13C-233'44'-PeCB	M+2/M+4	1.55	1.32-1.78	83.3	50.0 - 150.0
13C-33'44'5-PeCB	M+2/M+4	1.50	1.32-1.78	84.2	50.0 - 150.0
13C-22'44'66'-HxCB	M+2/M+4	1.22	1.05-1.43	97.1	50.0 - 150.0
13C-23'44'55'-HxCB	M+2/M+4	1.25	1.05-1.43	80.6	50.0 - 150.0
13C-233'44'5'-HxCB	M+2/M+4	1.30	1.05-1.43	162.5	100.0 - 300.0
13C-33'44'55'-HxCB	M+2/M+4	1.20	1.05-1.43	81.5	50.0 - 150.0
13C-22'34'566'-HpCB	M+2/M+4	1.05	0.89-1.21	116.3	50.0 - 150.0
13C-233'44'55'-HpCB	M+2/M+4	1.03	0.89-1.21	98.3	50.0 - 150.0
13C-22'33'55'66'-OcCB	M+2/M+4	0.88	0.76-1.02	99.2	50.0 - 150.0
13C-233'44'55'6-OcCB	M+2/M+4	0.90	0.76-1.02	99.1	50.0 - 150.0
13C-22'33'4'55'66'-NoCB	M+2/M+4	0.76	0.65-0.89	98.5	50.0 - 150.0
13C-22'33'44'55'6-NoCB	M+2/M+4	0.77	0.65-0.89	97.4	50.0 - 150.0
13C-DeCB	M+4/M+6	1.20	0.99-1.33	80.3	50.0 - 150.0
CLEANUP STANDARDS					
13C-244'-TrCB	M/M+2	1.01	0.88-1.20	78.8	50.0 - 150.0
13C-233'55'-PeCB	M+2/M+4	1.55	1.32-1.78	96.6	50.0 - 150.0
13C-22'33'55'6-HpCB	M+2/M+4	1.07	0.89-1.21	89.9	50.0 - 150.0

(1) See Table 7, Method 1668A, for m/z specifications.
(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.
(3) Contract-required concentration range, as specified in Table 6, Method 1668A, under VER.

SP1668F4B

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
CCAL CS3

Run #7 Filename U142053 #1 Samp: 1 Inj: 1 Acquired: 7-NOV-11 06:40:39
Processed: 11-NOV-11 09:45:20 LAB. ID: CCAL CS3

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?	RRT
1	1	2-MoCB	13:20	8.169e+03	2.665e+03	3.07	yes	no	1.000
2	3	4-MoCB	15:37	8.105e+03	2.659e+03	3.05	yes	no	1.001
3	4	22'-DiCB	15:52	6.145e+03	4.099e+03	1.50	yes	no	1.002
4	15	44'-DiCB	21:54	5.084e+03	3.238e+03	1.57	yes	no	1.001
5	19	22'6'-TrCB	19:03	3.743e+03	3.736e+03	1.00	yes	no	1.001
6	37	344'-TrCB	29:02	4.267e+03	4.214e+03	1.01	yes	no	1.001
7	54	22'66'-TeCB	22:11	4.430e+03	5.868e+03	0.75	yes	no	1.001
8	81	344'5-TeCB	35:49	3.232e+03	4.080e+03	0.79	yes	no	1.001
9	77	33'44'-TeCB	36:23	3.037e+03	3.849e+03	0.79	yes	no	1.000
10	104	22'466'-PeCB	27:46	6.493e+03	4.218e+03	1.54	yes	no	1.001
11	123	2'344'5-PeCB	38:23	3.765e+03	2.487e+03	1.51	yes	no	1.001
12	118	23'44'5-PeCB	38:43	3.796e+03	2.613e+03	1.45	yes	no	1.001
13	114	2344'5-PeCB	39:14	3.824e+03	2.554e+03	1.50	yes	no	1.000
14	105	233'44'-PeCB	39:53	3.716e+03	2.405e+03	1.55	yes	no	1.000
15	126	33'44'5-PeCB	42:59	3.180e+03	2.056e+03	1.55	yes	no	1.001
16	155	22'44'66'-HxCB	33:29	5.842e+03	4.690e+03	1.25	yes	no	1.001
17	167	23'44'55'-HxCB	44:51	2.500e+03	2.107e+03	1.19	yes	no	1.001
18	156/7	233'44'5-HxCB	46:00	4.811e+03	3.835e+03	1.25	yes	no	1.001
19	169	33'44'55'-HxCB	49:15	2.121e+03	1.830e+03	1.16	yes	no	1.000
20	188	22'34'566'-HpCB	39:13	4.673e+03	4.471e+03	1.05	yes	no	1.000
21	189	233'44'55'-HpCB	51:45	2.067e+03	2.071e+03	1.00	yes	no	1.000
22	202	22'33'55'66'-OcCB	44:36	2.520e+03	2.981e+03	0.85	yes	no	1.000
23	205	233'44'55'6-OcCB	54:19	1.881e+03	2.128e+03	0.88	yes	no	1.000
24	208	22'33'4'55'66'-NoCB	51:16	1.859e+03	2.425e+03	0.77	yes	no	1.000
25	206	22'33'44'55'6-NoCB	56:04	1.342e+03	1.733e+03	0.77	yes	no	1.001
26	209	DeCB	57:39	2.183e+03	1.836e+03	1.19	yes	no	1.001
27	1L	13C-2-MoCB	13:20	1.788e+04	6.038e+03	2.96	yes	no	0.746
28	3L	13C-4-MoCB	15:36	1.800e+04	5.782e+03	3.11	yes	no	0.873
29	4L	13C-22'-DiCB	15:50	1.098e+04	7.298e+03	1.50	yes	no	0.886
30	15L	13C-44'-DiCB	21:53	1.163e+04	7.521e+03	1.55	yes	no	1.225
31	19L	13C-22'6'-TrCB	19:02	7.726e+03	7.552e+03	1.02	yes	no	1.065
32	37L	13C-344'-TrCB	29:00	8.810e+03	8.400e+03	1.05	yes	no	1.083
33	54L	13C-22'66'-TeCB	22:10	8.600e+03	1.090e+04	0.79	yes	no	0.828
34	81L	13C-344'5-TeCB	35:47	6.657e+03	8.238e+03	0.81	yes	no	1.336
35	77L	13C-33'44'-TeCB	36:22	6.385e+03	7.976e+03	0.80	yes	no	1.358
36	104L	13C-22'466'-PeCB	27:45	1.329e+04	8.648e+03	1.54	yes	no	0.824
37	123L	13C-2'344'5-PeCB	38:21	8.283e+03	5.383e+03	1.54	yes	no	1.139
38	118L	13C-23'44'5-PeCB	38:41	8.635e+03	5.504e+03	1.57	yes	no	1.148
39	114L	13C-2344'5-PeCB	39:13	8.236e+03	5.239e+03	1.57	yes	no	1.164
40	105L	13C-233'44'-PeCB	39:52	7.901e+03	5.087e+03	1.55	yes	no	1.184
41	126L	13C-33'44'5-PeCB	42:57	6.995e+03	4.648e+03	1.50	yes	no	1.275
42	155L	13C-22'44'66'-HxCB	33:27	1.200e+04	9.812e+03	1.22	yes	no	0.800
43	167L	13C-23'44'55'-HxCB	44:49	5.429e+03	4.329e+03	1.25	yes	no	1.072
44	156/7	13C-233'44'5'-HxCB	45:58	1.030e+04	7.944e+03	1.30	yes	no	1.100
45	169L	13C-33'44'55'-HxCB	49:14	4.369e+03	3.642e+03	1.20	yes	no	1.178
46	188L	13C-22'34'566'-HpCB	39:12	9.342e+03	8.888e+03	1.05	yes	no	0.728
47	189L	13C-233'44'55'-HpCB	51:44	4.346e+03	4.202e+03	1.03	yes	no	0.961
48	202L	13C-22'33'55'66'-OcCB	44:35	5.572e+03	6.330e+03	0.88	yes	no	0.828
49	205L	13C-233'44'55'6-OcCB	54:18	4.255e+03	4.726e+03	0.90	yes	no	1.009
50	208L	13C-22'33'4'55'66'-NoCB	51:15	3.787e+03	4.969e+03	0.76	yes	no	0.952
51	206L	13C-22'33'44'55'6-NoCB	56:02	2.810e+03	3.654e+03	0.77	yes	no	1.041
52	209L	13C-DeCB	57:37	4.552e+03	3.787e+03	1.20	yes	no	1.070

53	28L	13C-244'-TrCB	24:56	9.392e+03	9.257e+03	1.01	yes	no	0.931
54	111L	13C-233'55'-PeCB	36:24	1.120e+04	7.214e+03	1.55	yes	no	1.081
55	178L	13C-22'33'55'6-HpCB	42:15	6.085e+03	5.677e+03	1.07	yes	no	1.011
56	9L	13C-2,5-DiCB	17:52	1.097e+04	6.929e+03	1.58	yes	no	*
57	52L	13C-22'55'-TeCB	26:47	7.628e+03	9.438e+03	0.81	yes	no	*
58	101L	13C-22'4'55'-PeCB	33:41	9.391e+03	6.004e+03	1.56	yes	no	*
59	138L	13C-22'3'44'5'-HxCB	41:48	7.641e+03	6.085e+03	1.26	yes	no	*
60	194L	13C-22'33'44'55'-OcCB	53:50	3.172e+03	3.478e+03	0.91	yes	no	*

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
CCAL CS3

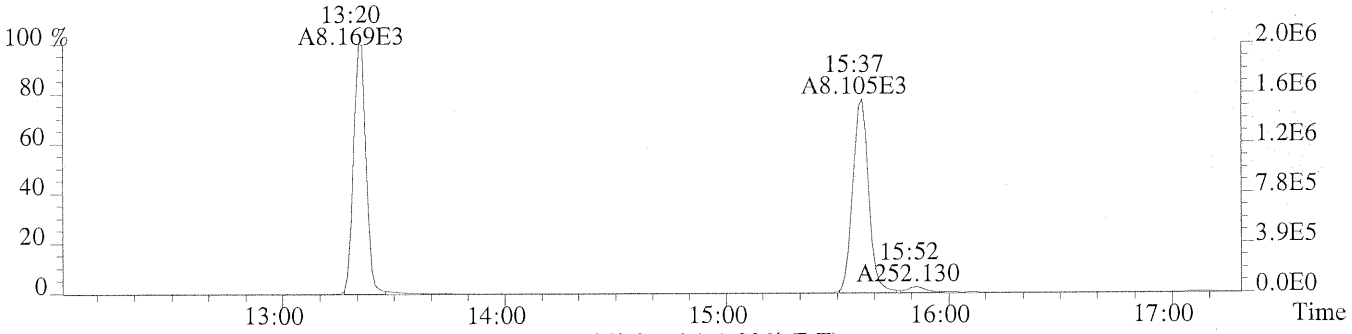
Run #7 Filename U142053 Samp: 1 Inj: 1 Acquired: 7-NOV-11 06:40:39
Processed: 11-NOV-11 09:45:201 LAB. ID: CCAL CS3

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	1.96e+06	1.20e+03	1.6e+03	6.53e+05	3.98e+03	1.6e+02
2	4-MoCB	1.52e+06	1.20e+03	1.3e+03	5.01e+05	3.98e+03	1.3e+02
3	22'-DiCB	1.21e+06	2.84e+03	4.3e+02	7.66e+05	2.70e+04	2.8e+01
4	44'-DiCB	8.40e+05	2.19e+03	3.8e+02	5.45e+05	1.78e+04	3.1e+01
5	22'6'-TrCB	7.08e+05	1.66e+03	4.3e+02	7.17e+05	9.80e+02	7.3e+02
6	344'-TrCB	6.34e+05	1.27e+03	5.0e+02	6.28e+05	1.36e+03	4.6e+02
7	22'66'-TeCB	8.07e+05	1.30e+03	6.2e+02	1.06e+06	1.20e+03	8.8e+02
8	344'5-TeCB	5.41e+05	8.60e+02	6.3e+02	6.62e+05	8.92e+02	7.4e+02
9	33'44'-TeCB	4.94e+05	8.60e+02	5.7e+02	6.33e+05	8.92e+02	7.1e+02
10	22'466'-PeCB	1.03e+06	1.03e+03	1.0e+03	6.60e+05	8.80e+02	7.5e+02
11	2'344'5-PeCB	6.57e+05	5.73e+03	1.1e+02	4.43e+05	4.01e+03	1.1e+02
12	23'44'5-PeCB	6.75e+05	5.73e+03	1.2e+02	4.47e+05	4.01e+03	1.1e+02
13	2344'5-PeCB	6.52e+05	5.73e+03	1.1e+02	4.40e+05	4.01e+03	1.1e+02
14	233'44'-PeCB	6.60e+05	5.73e+03	1.2e+02	4.20e+05	4.01e+03	1.0e+02
15	33'44'5-PeCB	5.35e+05	5.73e+03	9.3e+01	3.44e+05	4.01e+03	8.6e+01
16	22'44'66'-HxCB	1.02e+06	9.16e+02	1.1e+03	8.09e+05	1.33e+03	6.1e+02
17	23'44'55'-HxCB	5.31e+05	1.28e+03	4.1e+02	4.37e+05	2.35e+03	1.9e+02
18	233'44'5-HxCB	7.56e+05	1.28e+03	5.9e+02	6.03e+05	2.35e+03	2.6e+02
19	33'44'55'-HxCB	4.28e+05	1.28e+03	3.3e+02	3.67e+05	2.35e+03	1.6e+02
20	22'34'566'-HpCB	8.18e+05	6.88e+02	1.2e+03	7.81e+05	9.56e+02	8.2e+02
21	233'44'55'-HpCB	4.38e+05	1.26e+03	3.5e+02	4.31e+05	1.02e+03	4.2e+02
22	22'33'55'66'-OcCB	5.40e+05	9.24e+02	5.8e+02	6.46e+05	1.21e+03	5.3e+02
23	233'44'55'6-OcCB	3.85e+05	9.24e+02	4.2e+02	4.40e+05	1.21e+03	3.6e+02
24	22'33'4'55'66'-NoCB	3.94e+05	1.31e+03	3.0e+02	5.00e+05	1.10e+03	4.5e+02
25	22'33'44'55'6-NoCB	2.31e+05	3.13e+03	7.4e+01	3.13e+05	1.45e+03	2.2e+02
26	DeCB	3.73e+05	7.48e+02	5.0e+02	3.33e+05	8.28e+02	4.0e+02
27	13C-2-MoCB	4.39e+06	3.33e+03	1.3e+03	1.45e+06	5.37e+03	2.7e+02
28	13C-4-MoCB	3.39e+06	3.33e+03	1.0e+03	1.09e+06	5.37e+03	2.0e+02
29	13C-22'-DiCB	2.17e+06	8.04e+02	2.7e+03	1.45e+06	1.26e+03	1.1e+03
30	13C-44'-DiCB	1.90e+06	1.80e+03	1.1e+03	1.23e+06	1.84e+03	6.7e+02
31	13C-22'6'-TrCB	1.48e+06	1.54e+04	9.6e+01	1.42e+06	1.49e+04	9.6e+01
32	13C-344'-TrCB	1.34e+06	1.31e+04	1.0e+02	1.24e+06	1.24e+04	1.0e+02
33	13C-22'66'-TeCB	1.53e+06	2.87e+03	5.3e+02	1.95e+06	1.04e+03	1.9e+03
34	13C-344'5-TeCB	1.08e+06	2.63e+03	4.1e+02	1.36e+06	1.06e+03	1.3e+03
35	13C-33'44'-TeCB	1.03e+06	2.63e+03	3.9e+02	1.26e+06	1.06e+03	1.2e+03
36	13C-22'466'-PeCB	2.11e+06	1.20e+03	1.8e+03	1.40e+06	1.24e+03	1.1e+03
37	13C-2'344'5-PeCB	1.46e+06	3.74e+03	3.9e+02	9.24e+05	1.11e+03	8.3e+02
38	13C-23'44'5-PeCB	1.48e+06	3.74e+03	4.0e+02	9.36e+05	1.11e+03	8.4e+02
39	13C-2344'5-PeCB	1.44e+06	3.74e+03	3.8e+02	9.24e+05	1.11e+03	8.3e+02
40	13C-233'44'-PeCB	1.33e+06	3.74e+03	3.6e+02	8.51e+05	1.11e+03	7.7e+02
41	13C-33'44'5-PeCB	1.15e+06	3.74e+03	3.1e+02	7.59e+05	1.11e+03	6.8e+02
42	13C-22'44'66'-HxCB	2.08e+06	1.13e+03	1.8e+03	1.71e+06	1.02e+03	1.7e+03
43	13C-23'44'55'-HxCB	1.16e+06	1.89e+03	6.1e+02	9.34e+05	1.10e+03	8.5e+02
44	13C-233'44'5'-HxCB	1.63e+06	1.89e+03	8.6e+02	1.25e+06	1.10e+03	1.1e+03
45	13C-33'44'55'-HxCB	8.82e+05	1.89e+03	4.7e+02	7.40e+05	1.10e+03	6.7e+02
46	13C-22'34'566'-HpCB	1.65e+06	1.38e+03	1.2e+03	1.53e+06	9.32e+02	1.6e+03
47	13C-233'44'55'-HpCB	8.74e+05	1.00e+03	8.7e+02	8.68e+05	1.04e+03	8.3e+02
48	13C-22'33'55'66'-OcCB	1.17e+06	8.88e+02	1.3e+03	1.34e+06	1.45e+03	9.2e+02
49	13C-233'44'55'6-OcCB	8.82e+05	8.88e+02	9.9e+02	9.93e+05	1.45e+03	6.8e+02
50	13C-22'33'4'55'66'-NoCB	7.75e+05	1.10e+03	7.0e+02	1.03e+06	1.03e+03	9.9e+02
51	13C-22'33'44'55'6-NoCB	5.20e+05	1.18e+03	4.4e+02	6.63e+05	1.34e+03	5.0e+02
52	13C-DeCB	8.19e+05	7.52e+02	1.1e+03	6.51e+05	7.24e+02	9.0e+02

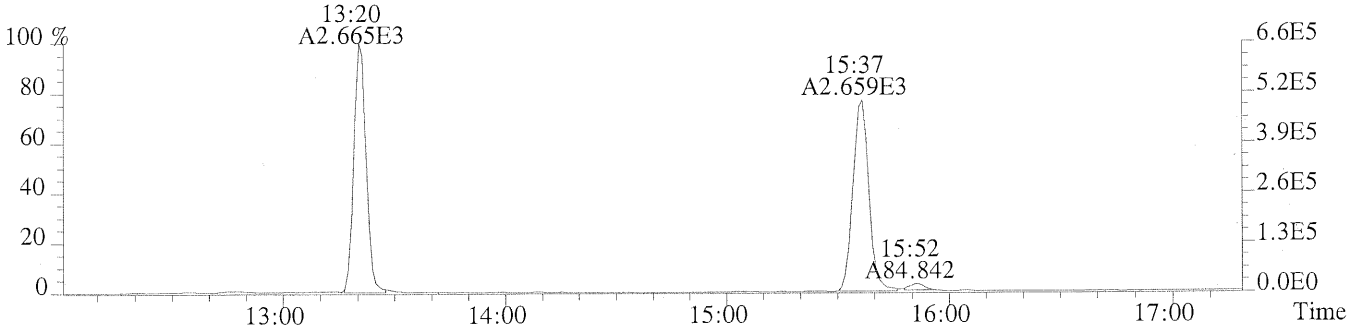
53	13C-244'-TrCB	1.40e+06	1.31e+04	1.1e+02	1.36e+06	1.24e+04	1.1e+02
54	13C-233'55'-PeCB	1.94e+06	8.80e+02	2.2e+03	1.26e+06	8.52e+02	1.5e+03
55	13C-22'33'55'6-HpCB	1.10e+06	1.38e+03	8.0e+02	1.01e+06	9.32e+02	1.1e+03
56	13C-2,5-DiCB	2.15e+06	1.80e+03	1.2e+03	1.36e+06	1.84e+03	7.4e+02
57	13C-22'55'-TeCB	1.21e+06	3.32e+03	3.6e+02	1.50e+06	1.30e+03	1.2e+03
58	13C-22'4'55'-PeCB	1.63e+06	8.80e+02	1.9e+03	1.04e+06	8.52e+02	1.2e+03
59	13C-22'3'44'5'-HxCB	1.33e+06	9.52e+02	1.4e+03	1.06e+06	9.32e+02	1.1e+03
60	13C-22'33'44'55'-OcCB	6.65e+05	8.88e+02	7.5e+02	7.36e+05	1.45e+03	5.1e+02

File:U142053 #1-341 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

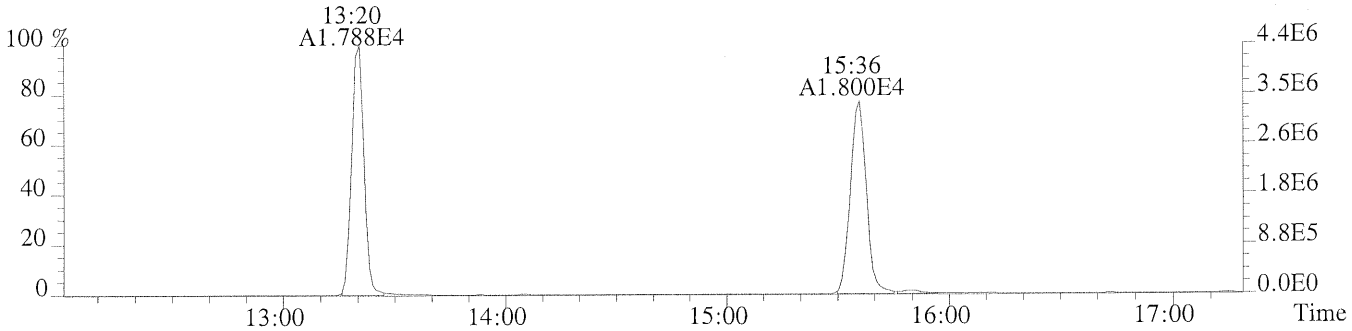
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1196.0,1.00%,F,T)



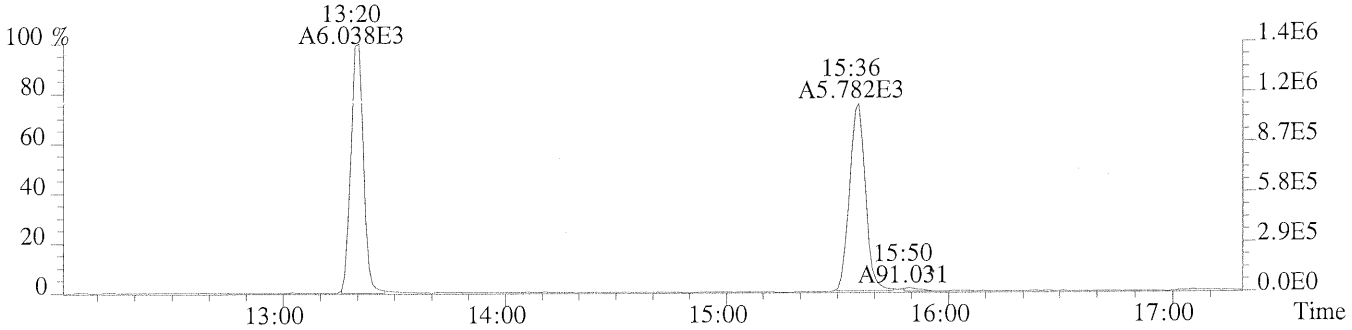
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3976.0,1.00%,F,T)



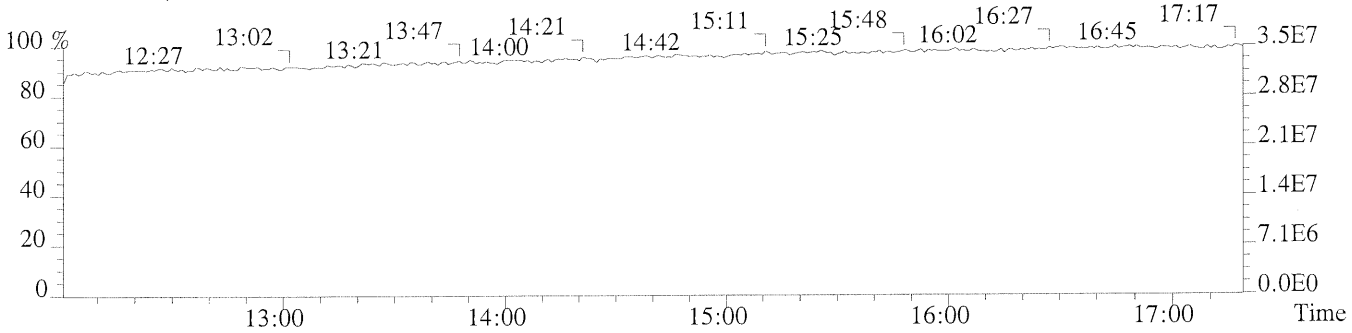
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3332.0,1.00%,F,T)



202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5368.0,1.00%,F,T)

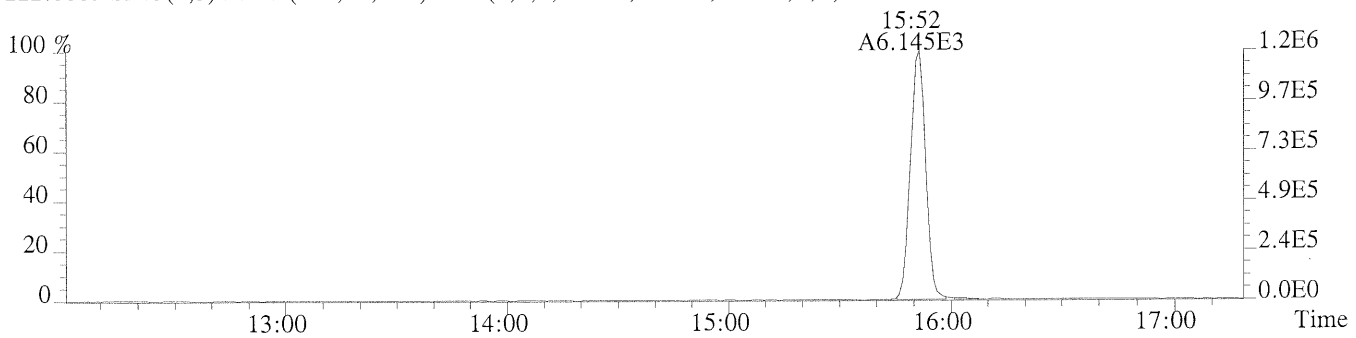


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

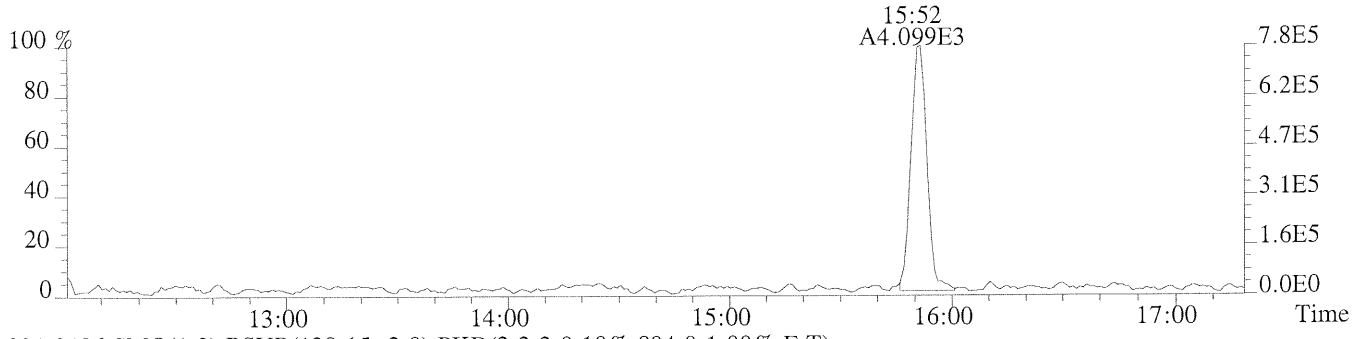


File:U142053 #1-341 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

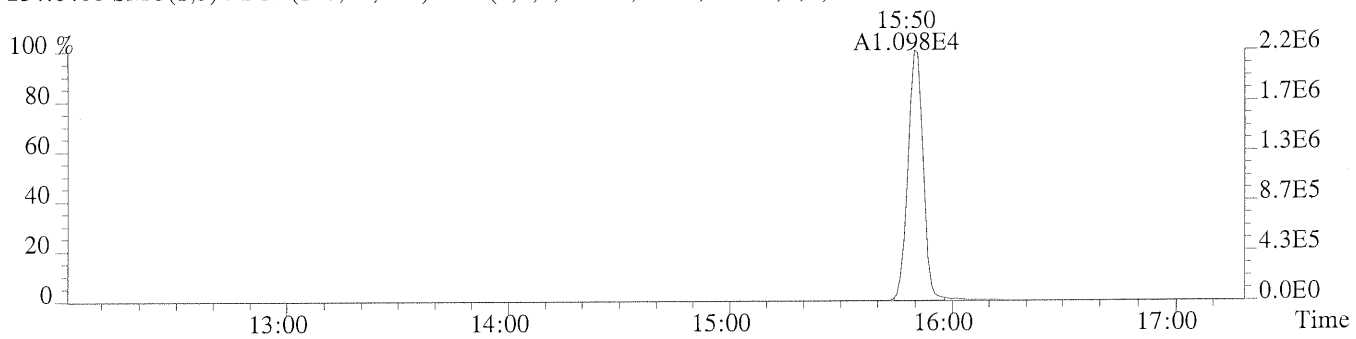
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2840.0,1.00%,F,T)



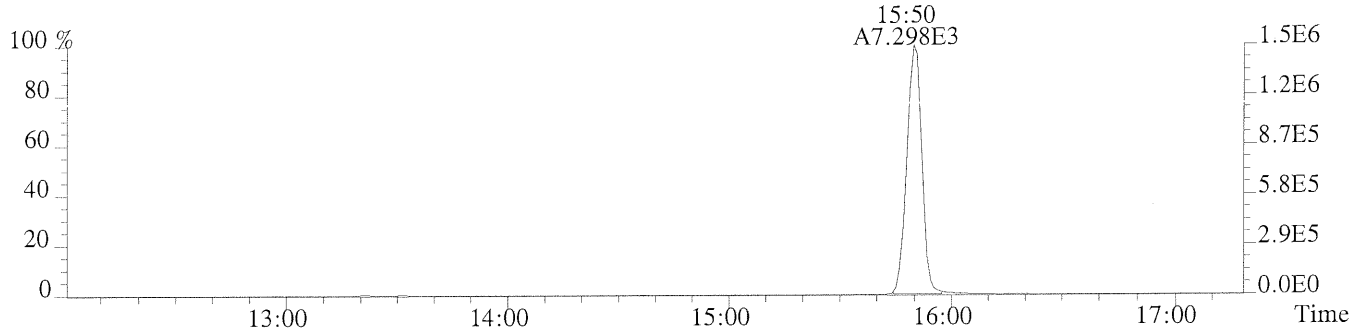
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,27012.0,1.00%,F,T)



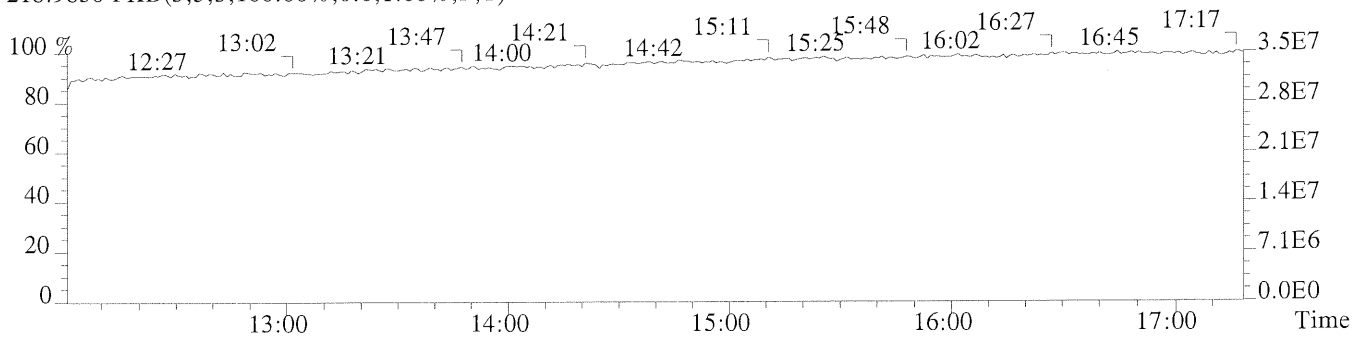
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)

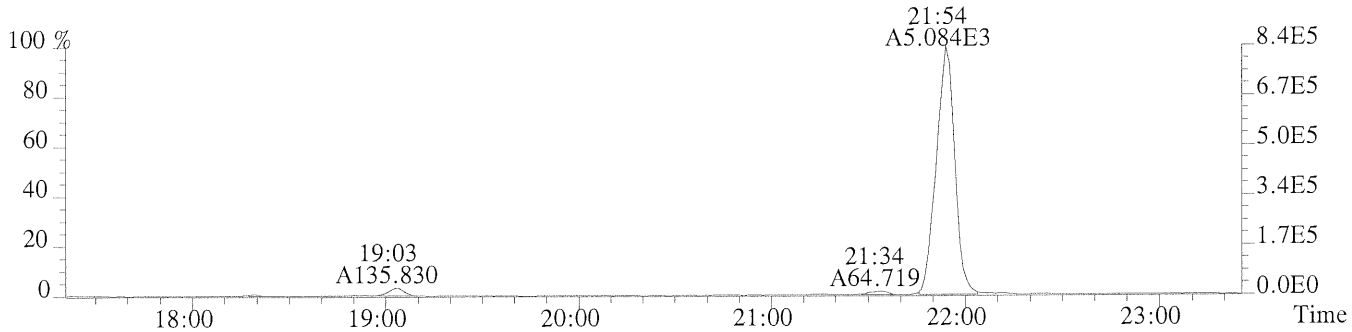


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

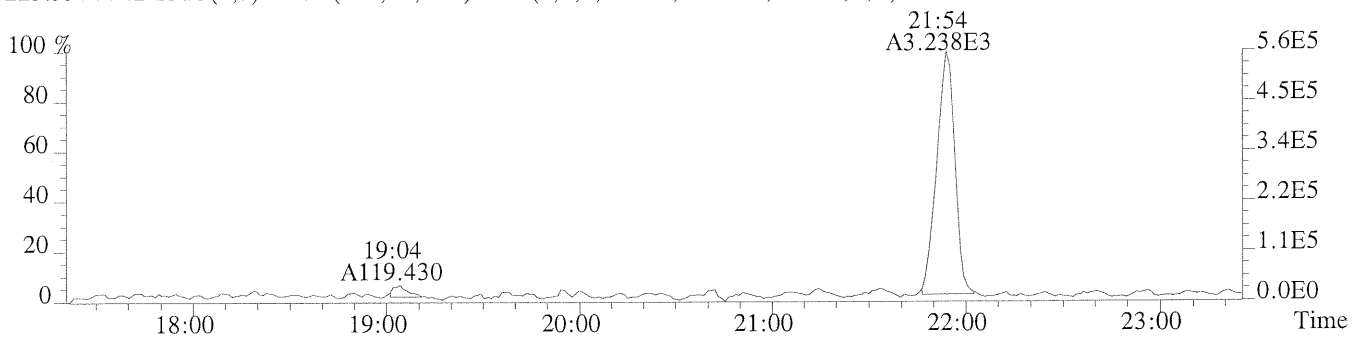


File:U142053 #1-336 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

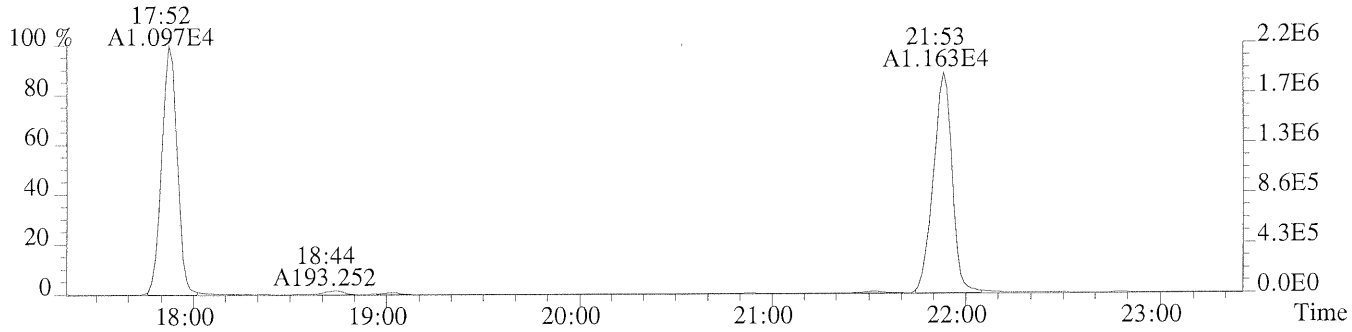
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2188.0,1.00%,F,T)



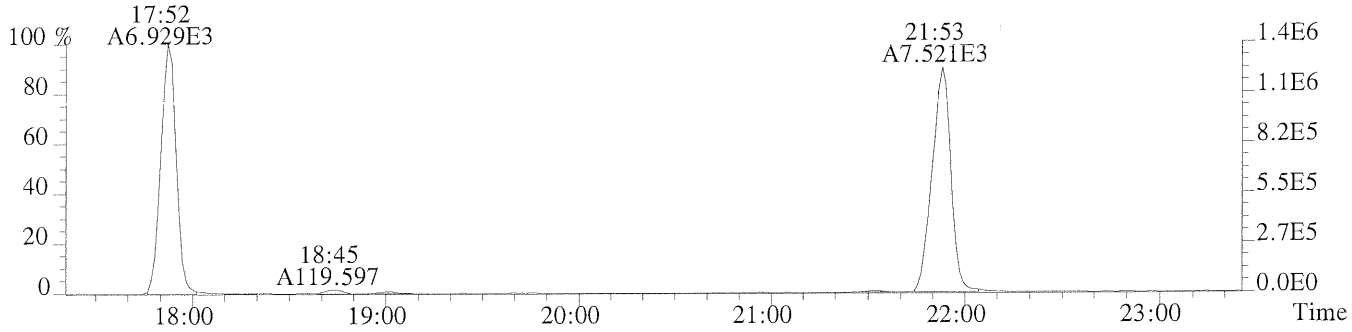
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17776.0,1.00%,F,T)



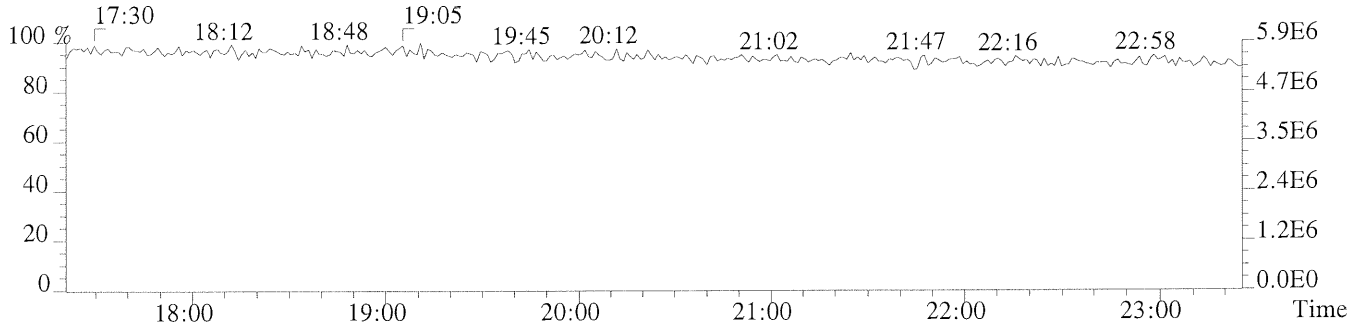
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1804.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1840.0,1.00%,F,T)

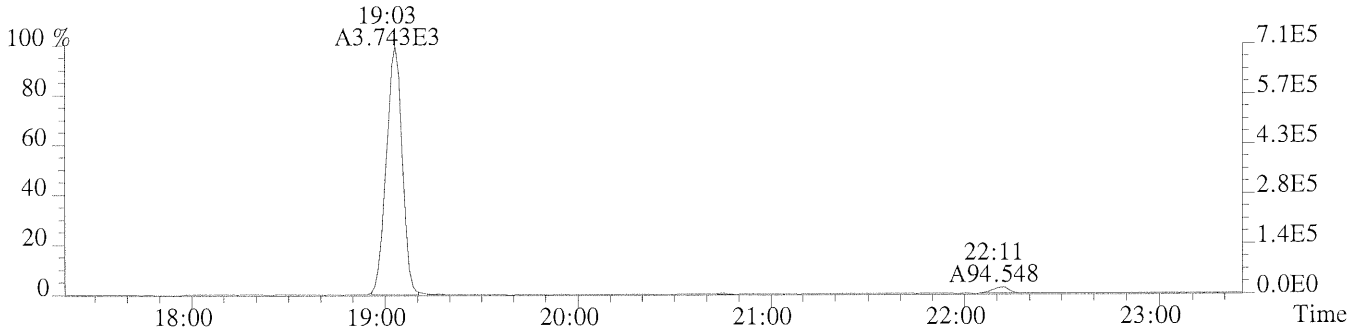


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

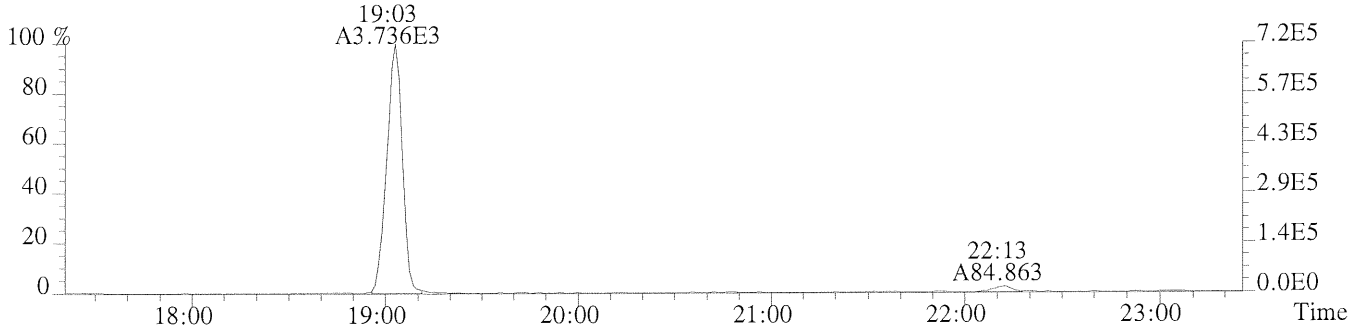


File:U142053 #1-336 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

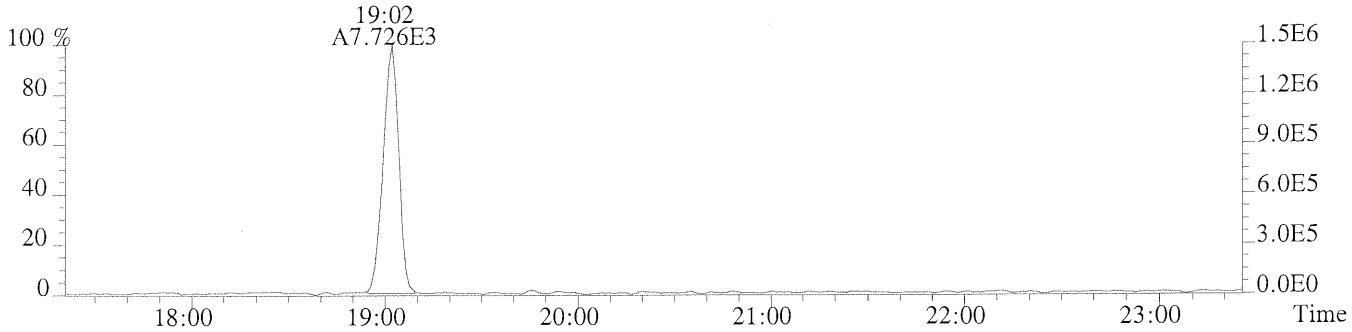
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1664.0,1.00%,F,T)



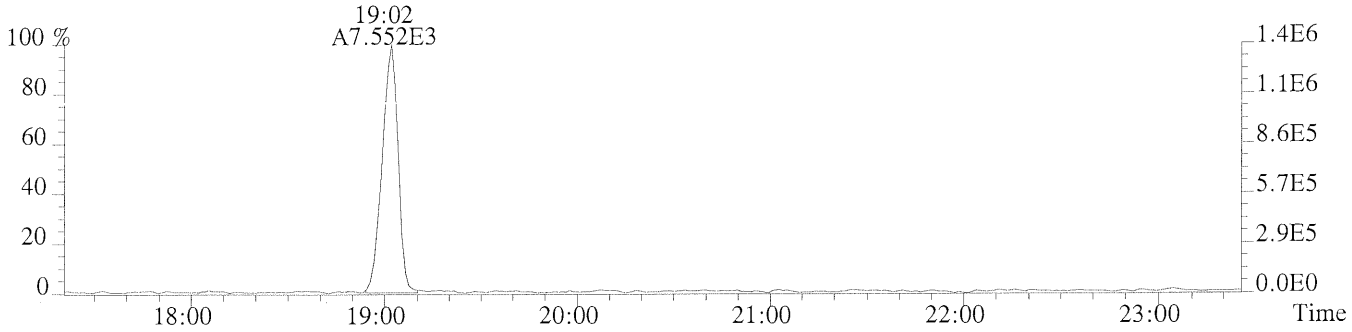
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,980.0,1.00%,F,T)



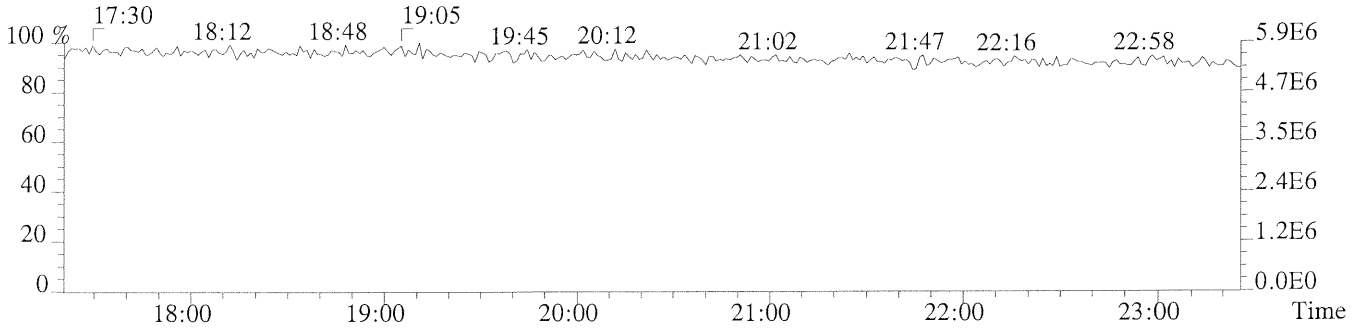
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,15428.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14880.0,1.00%,F,T)

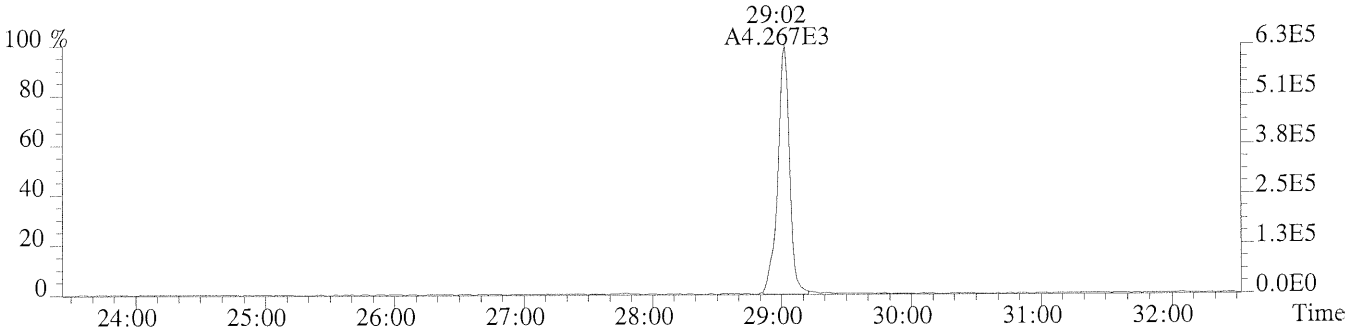


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

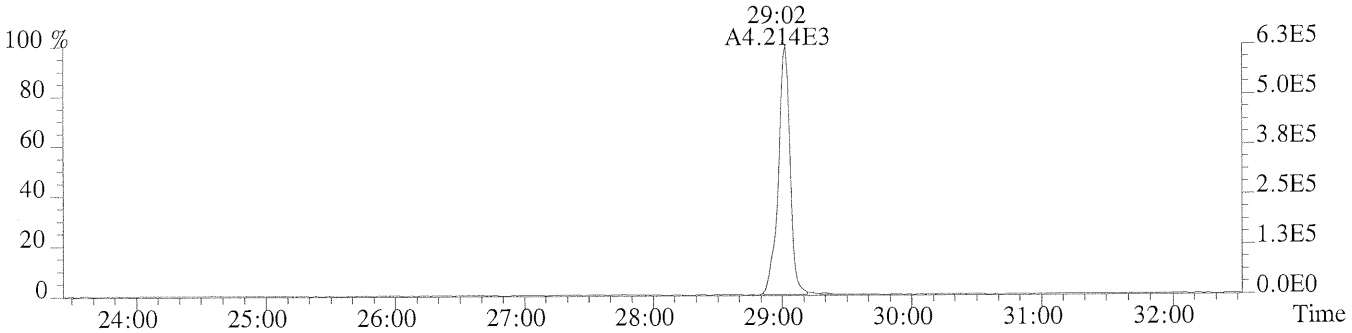


File:U142053 #1-582 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

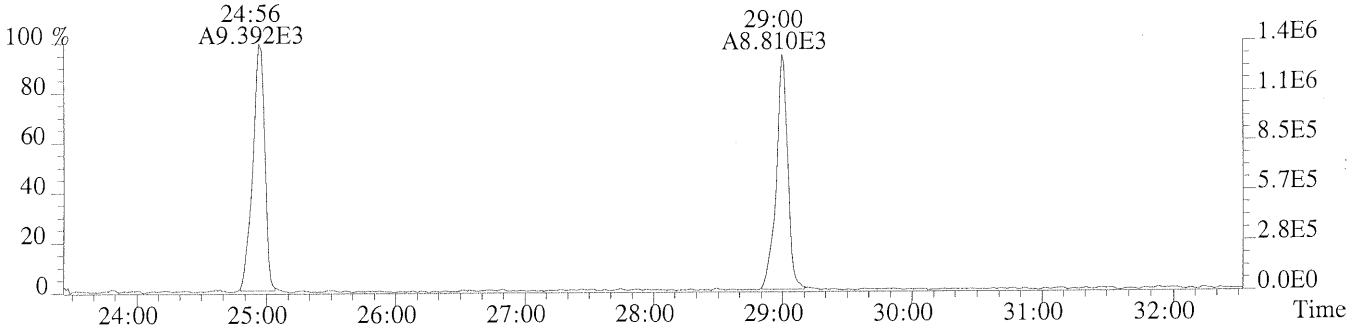
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1272.0,1.00%,F,T)



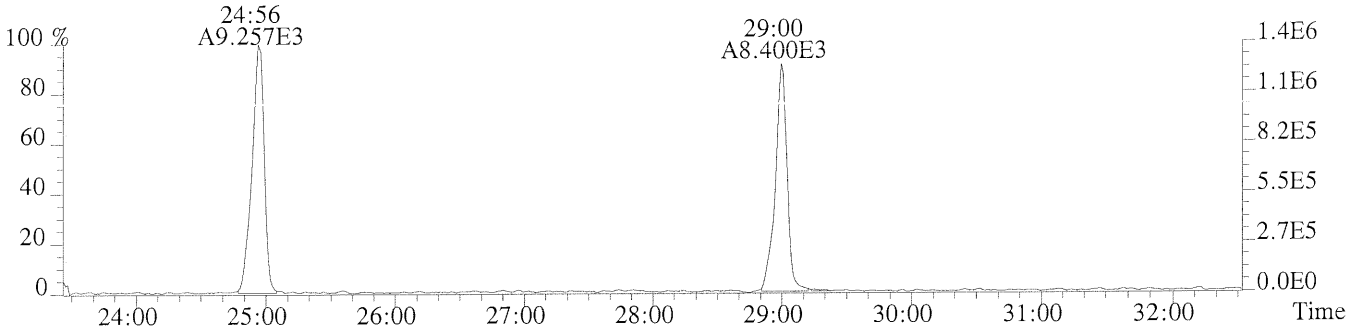
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1364.0,1.00%,F,T)



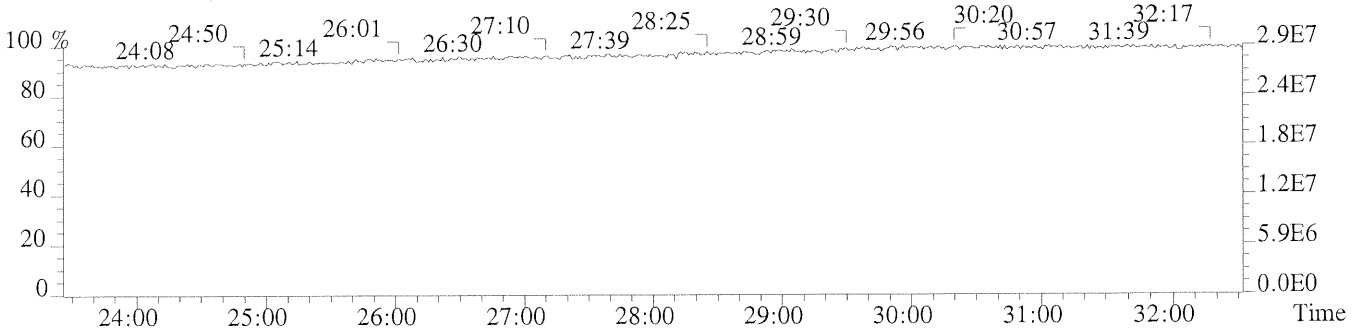
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,13096.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12448.0,1.00%,F,T)

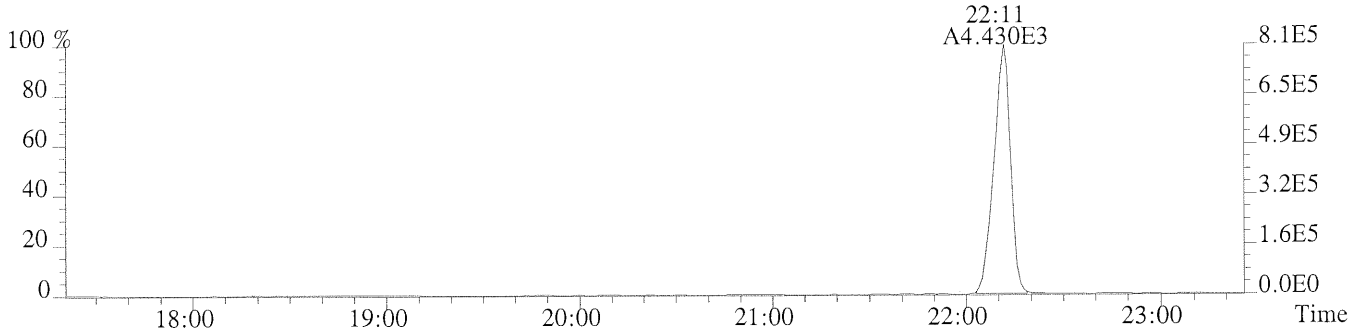


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

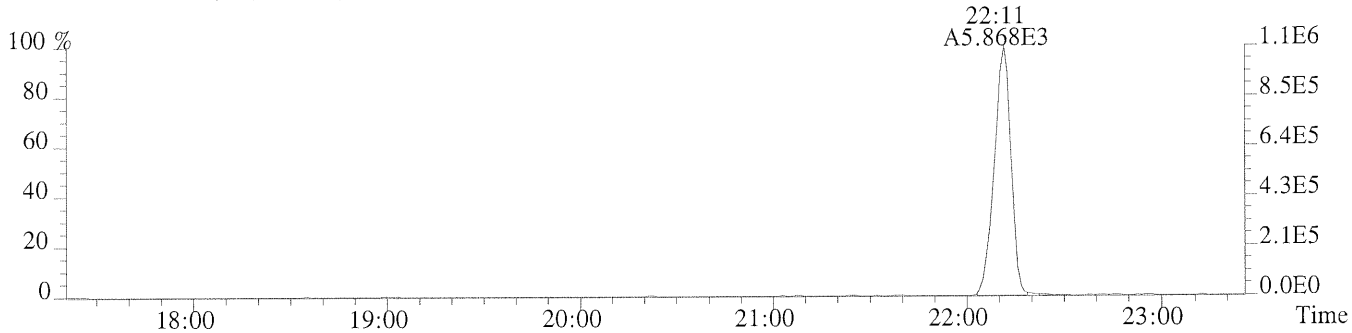


File:U142053 #1-336 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

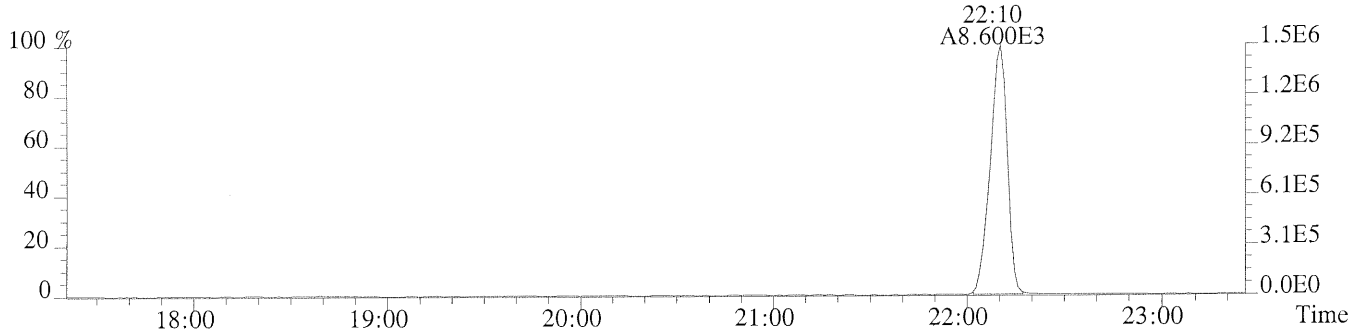
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1304.0,1.00%,F,T)



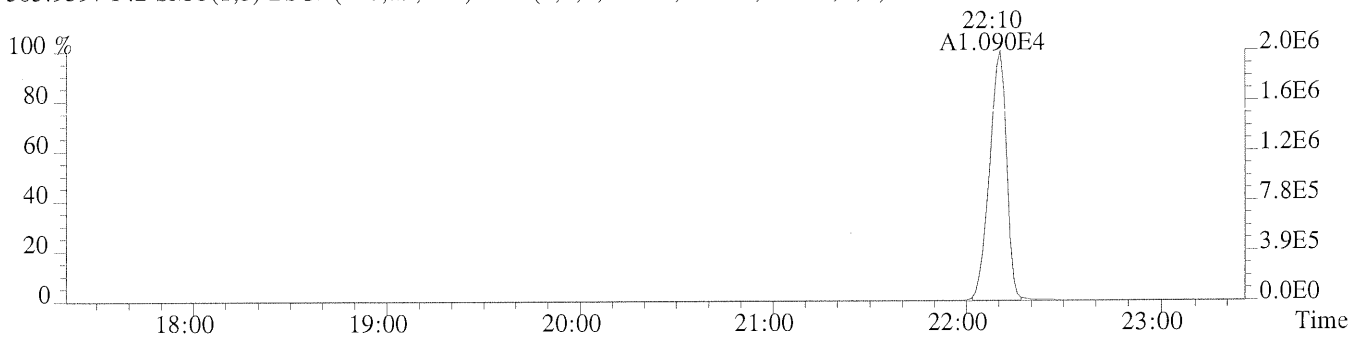
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



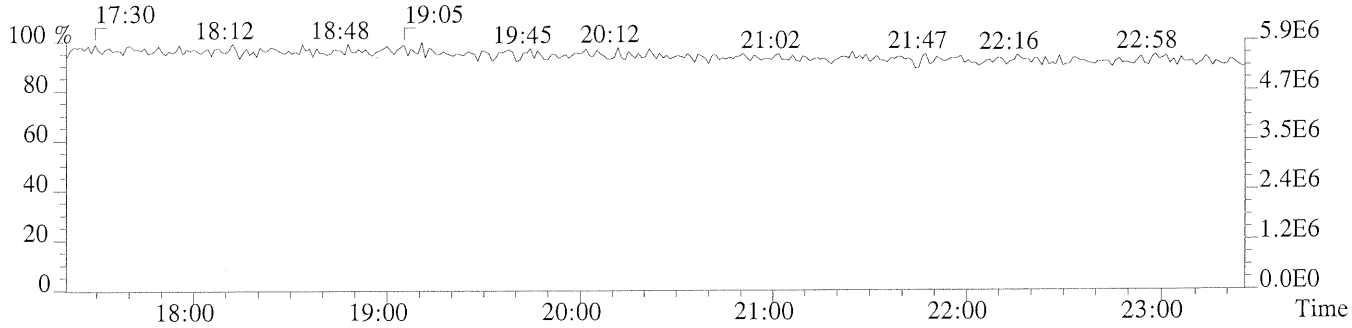
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2868.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)

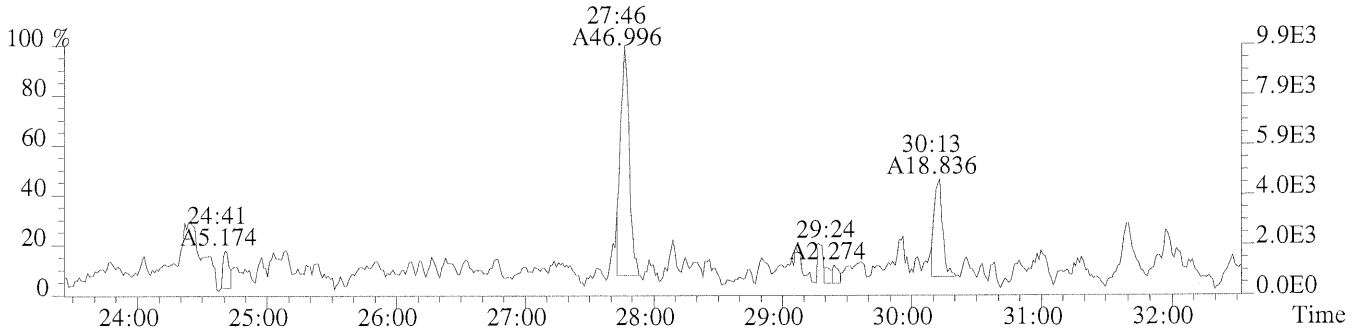


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

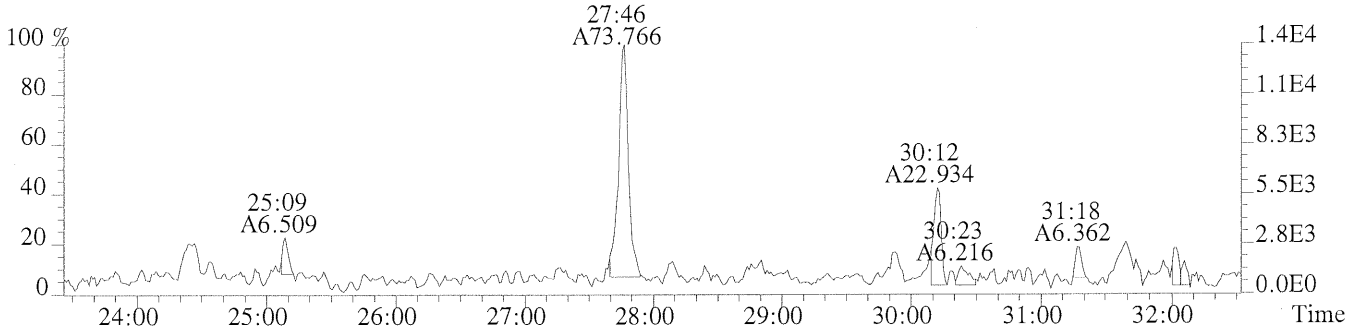


File:U142053 #1-582 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

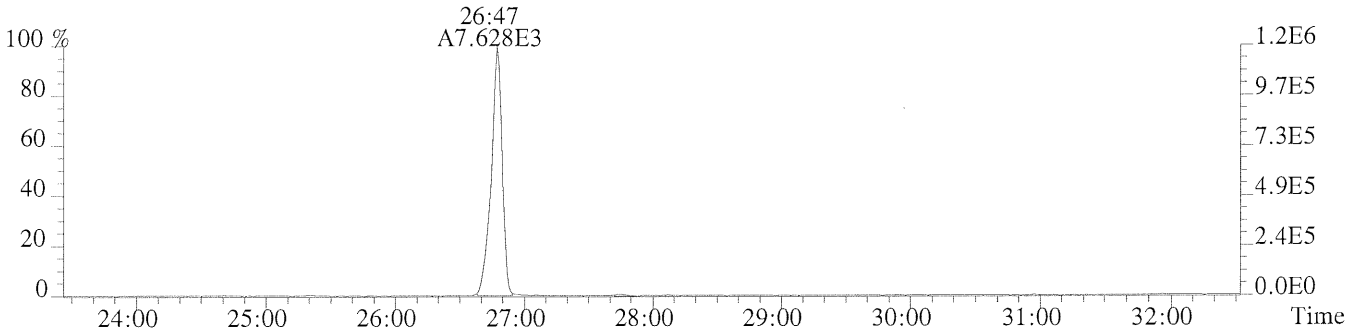
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1288.0,1.00%,F,T)



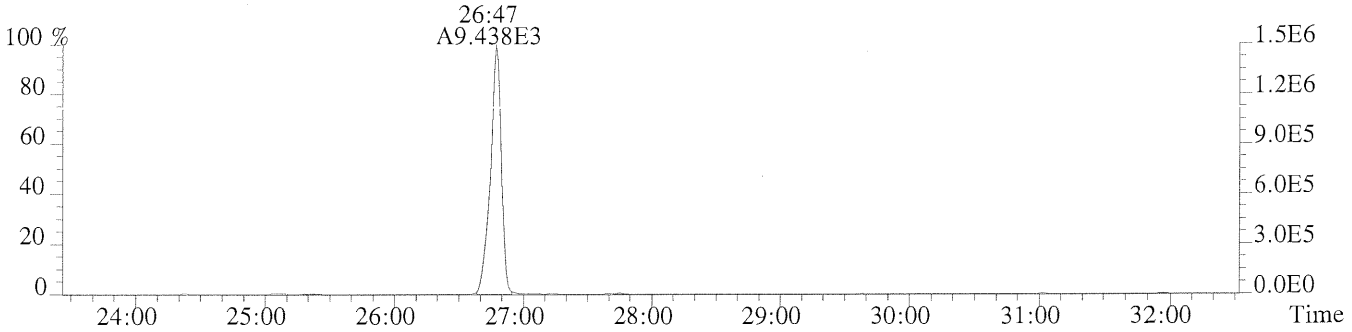
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)



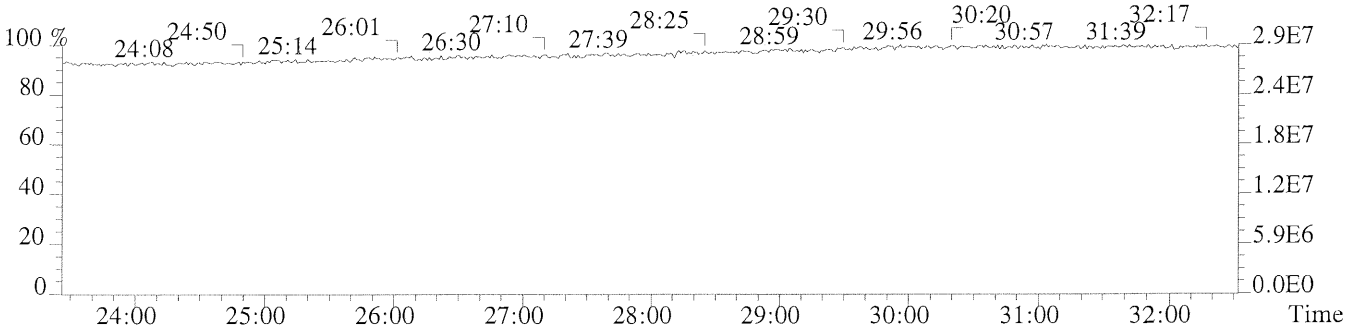
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3324.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1300.0,1.00%,F,T)

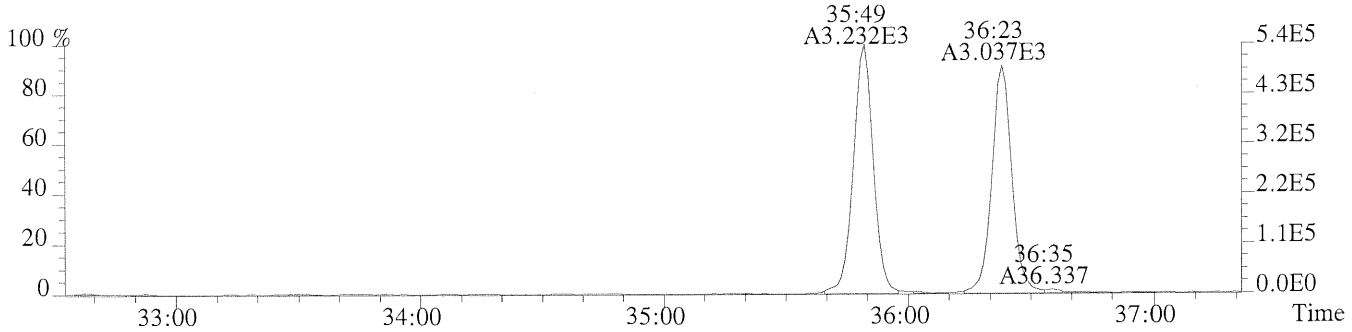


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

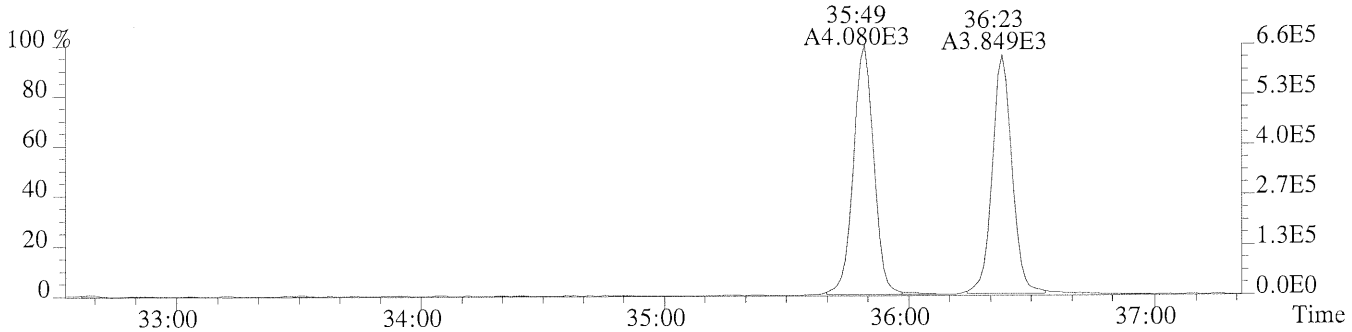


File:U142053 #1-308 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

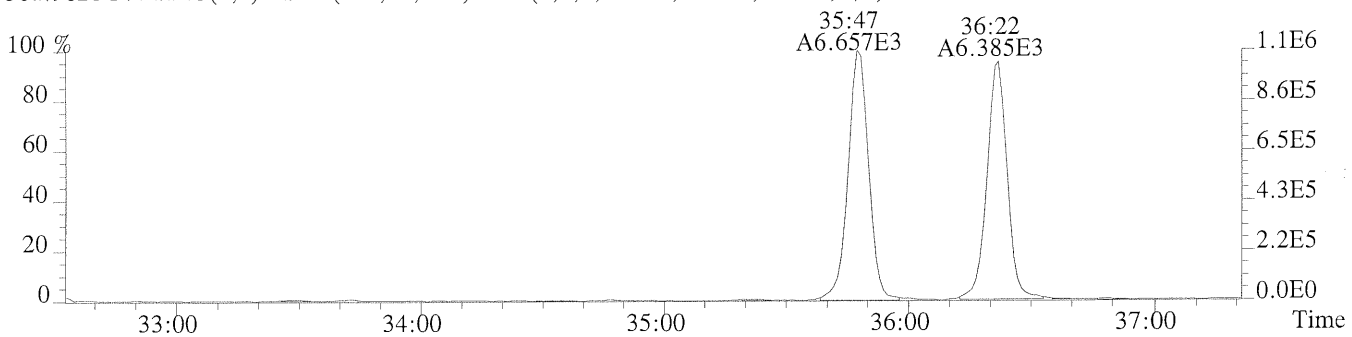
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



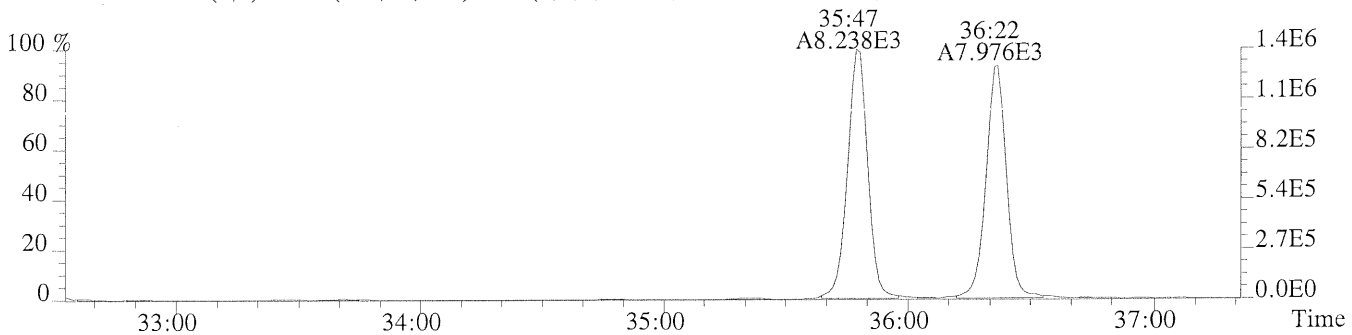
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)



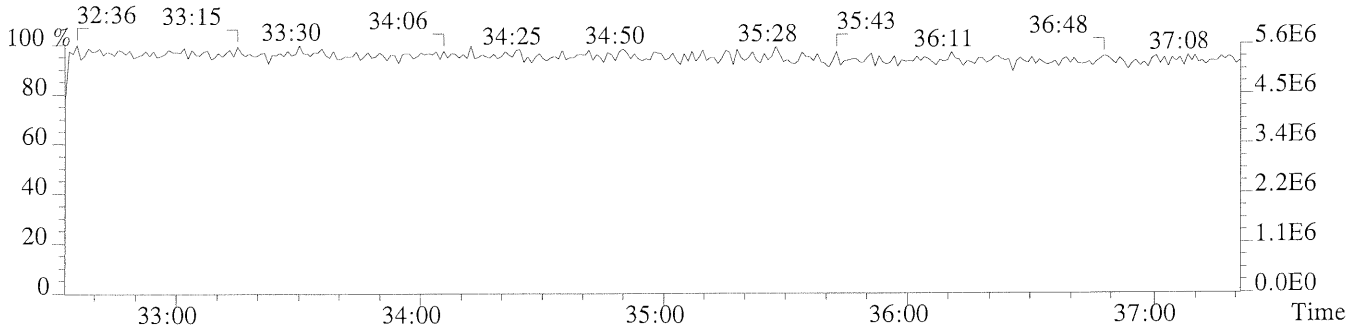
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2624.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)

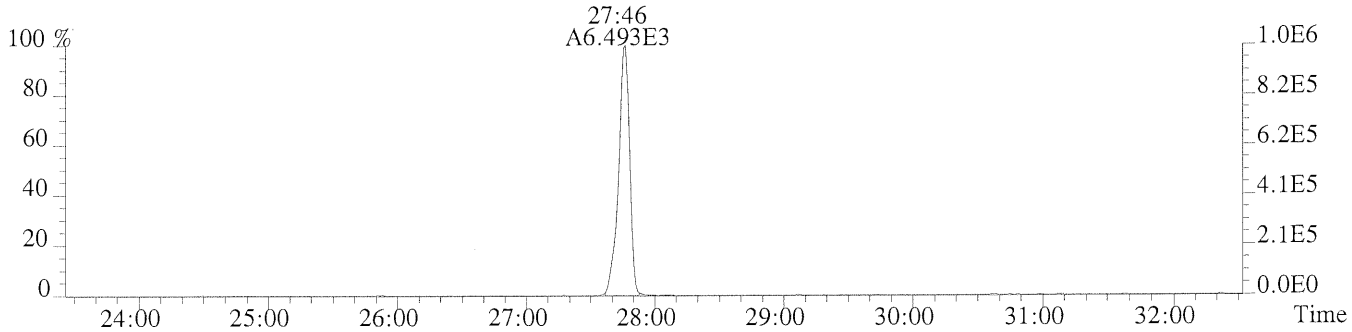


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

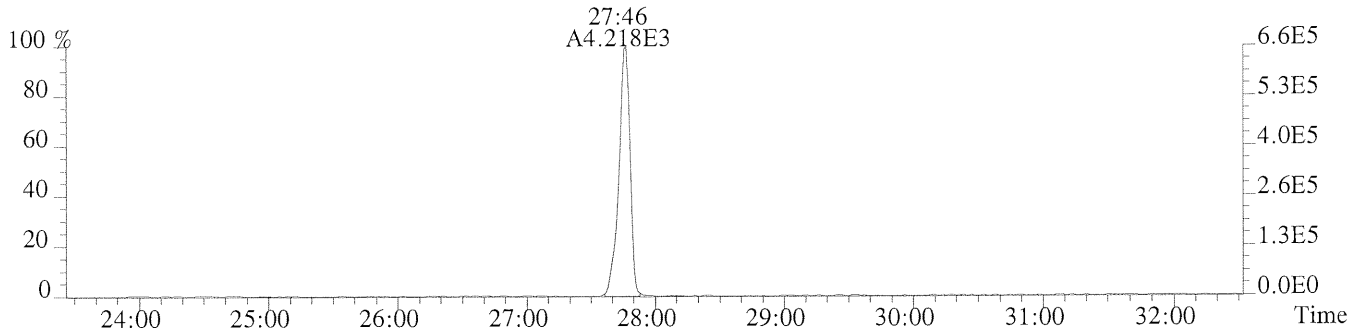


File:U142053 #1-582 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

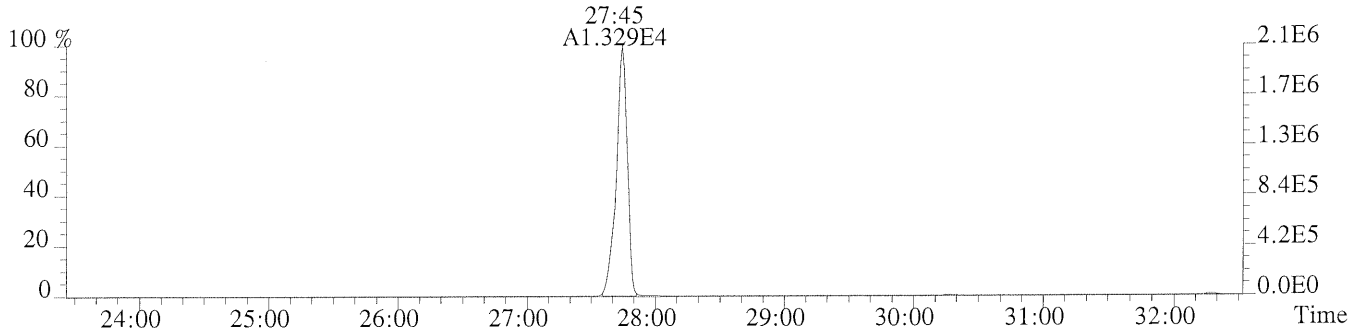
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,T)



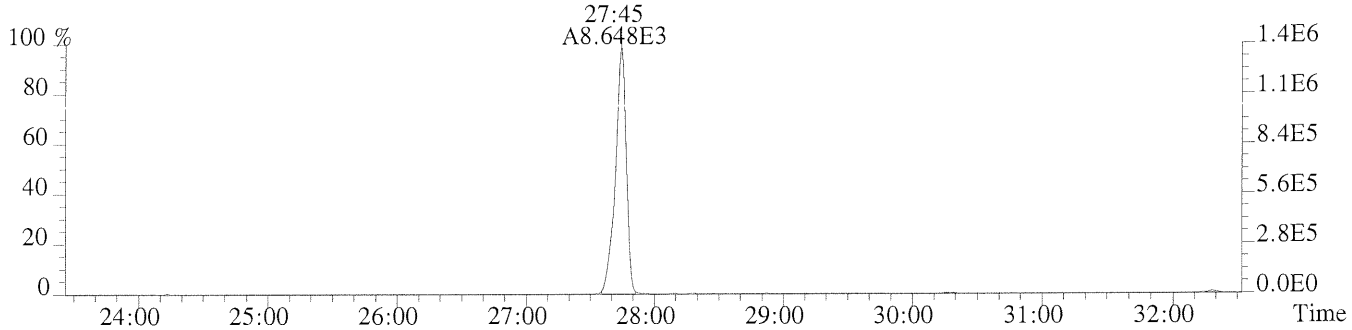
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



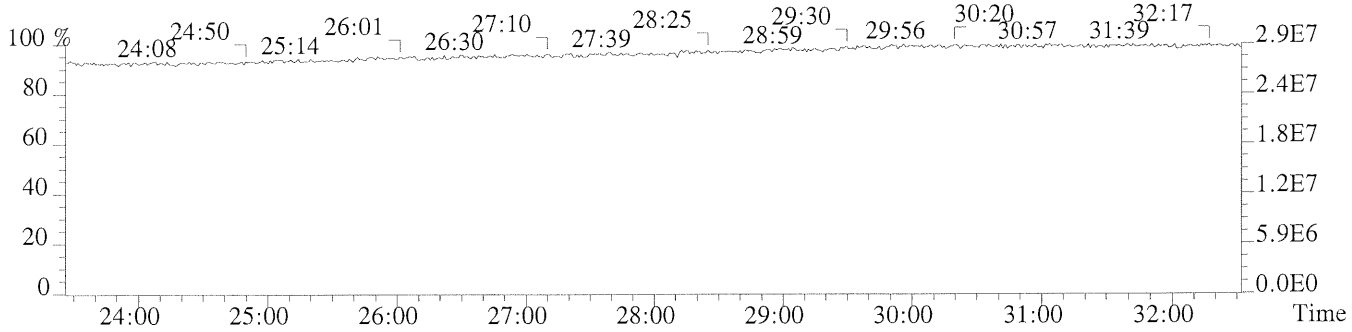
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1236.0,1.00%,F,T)

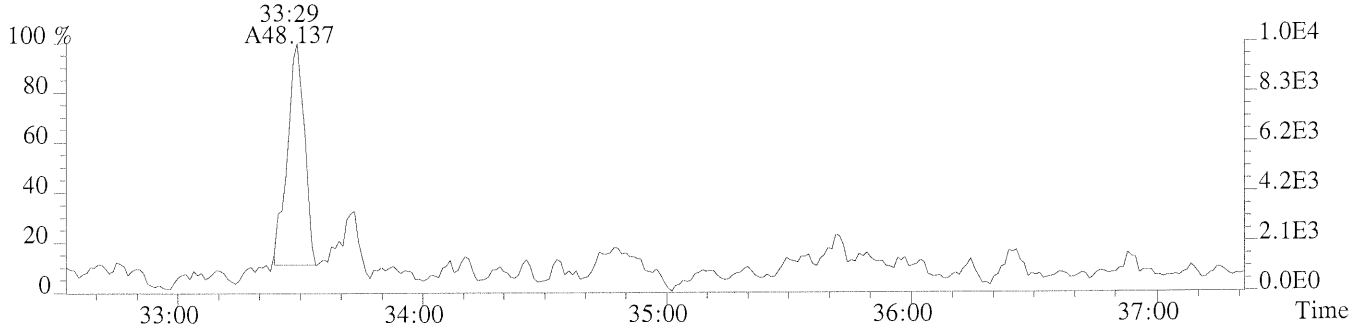


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

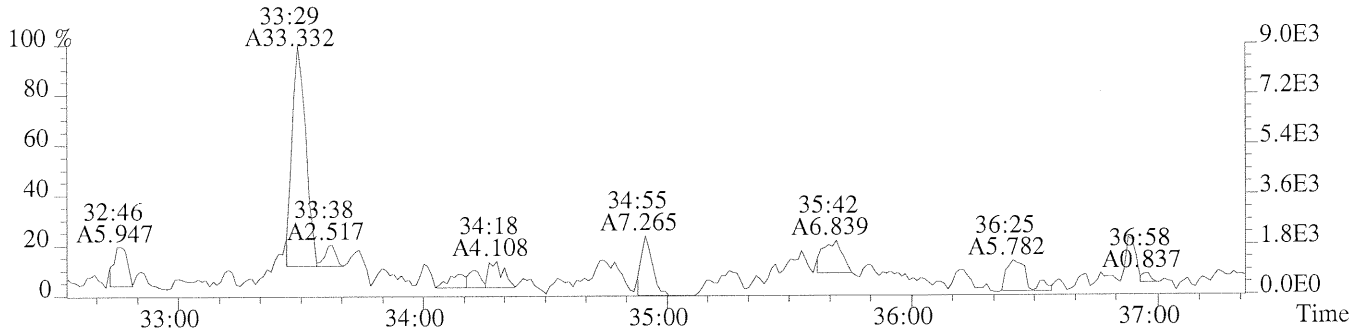


File:U142053 #1-308 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

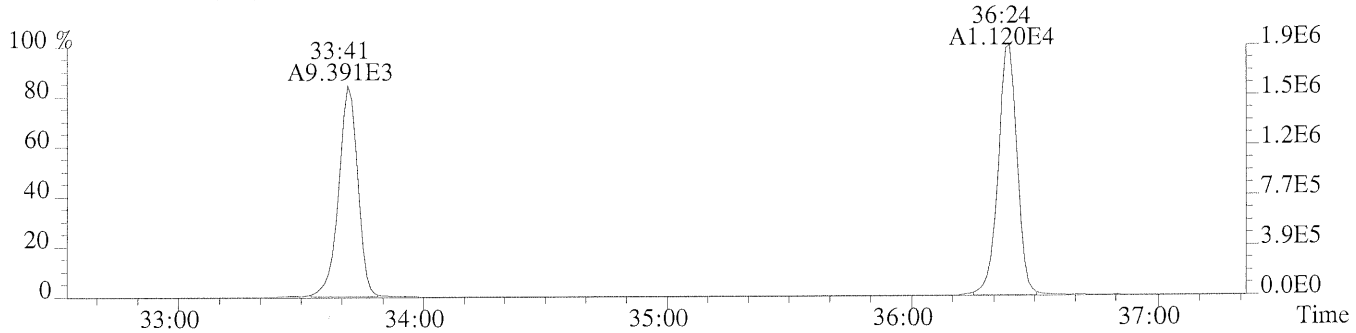
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1060.0,1.00%,F,T)



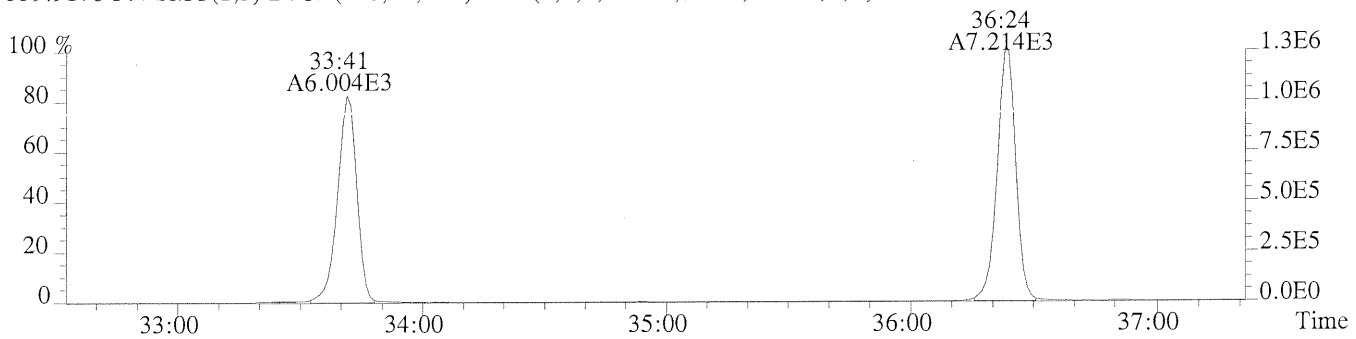
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,748.0,1.00%,F,T)



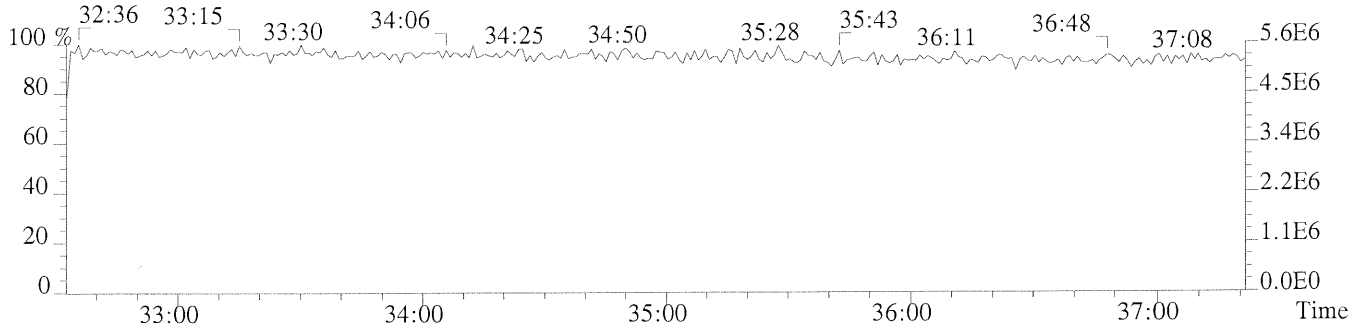
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)

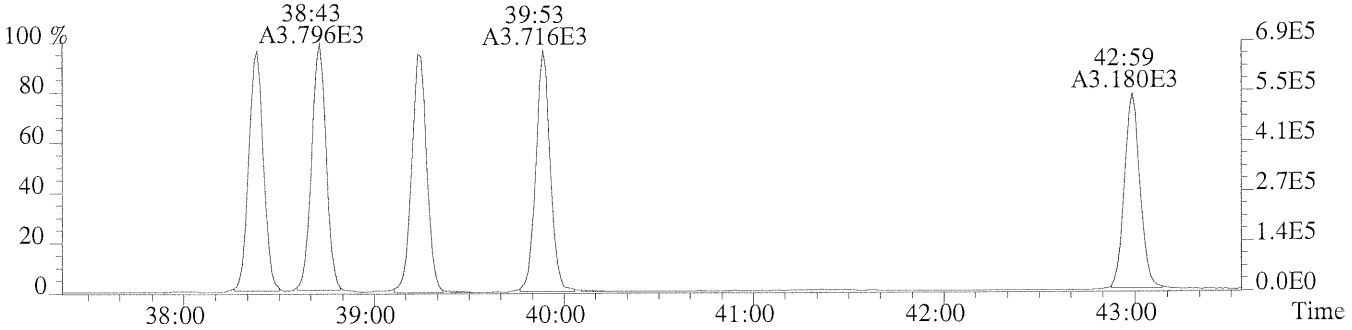


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

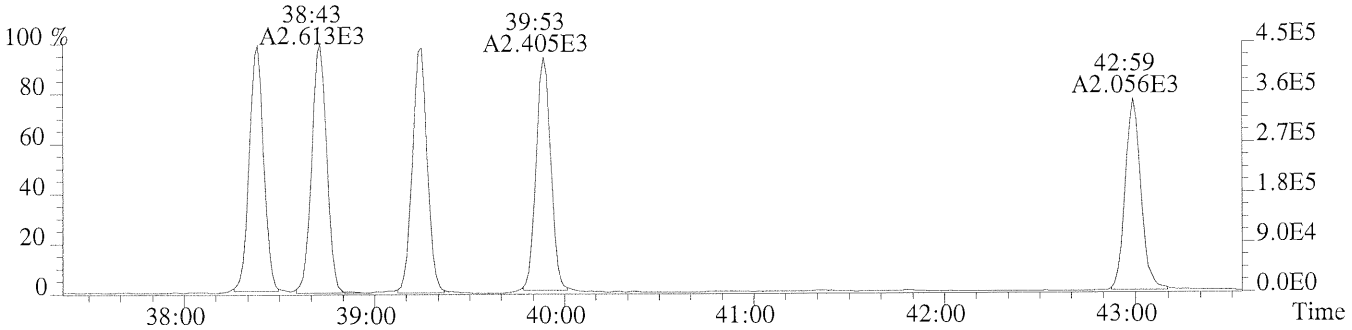


File:U142053 #1-396 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

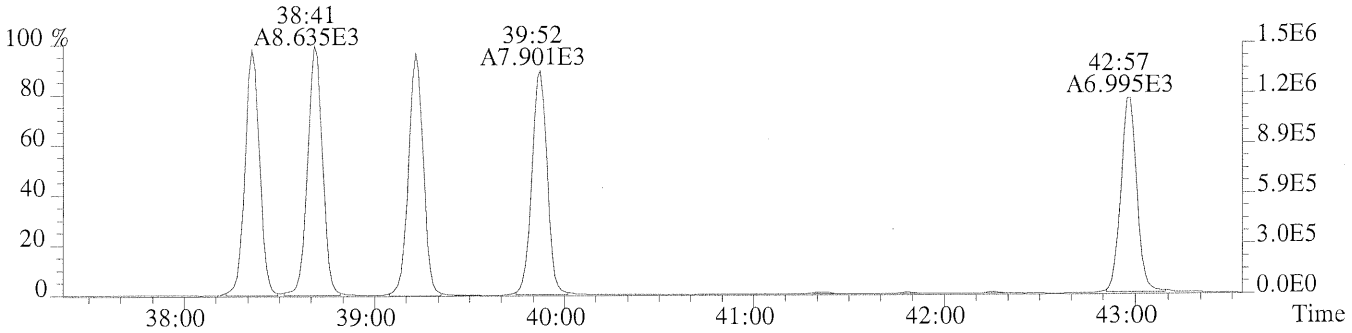
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5732.0,1.00%,F,T)



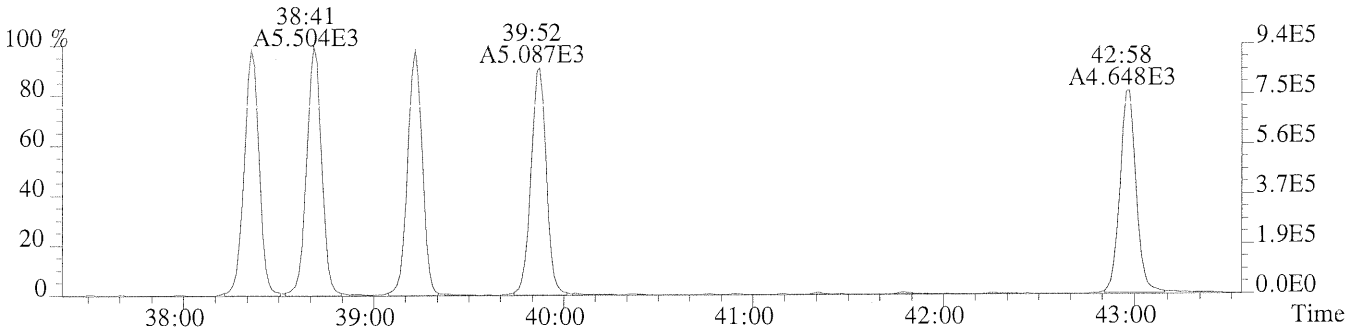
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4008.0,1.00%,F,T)



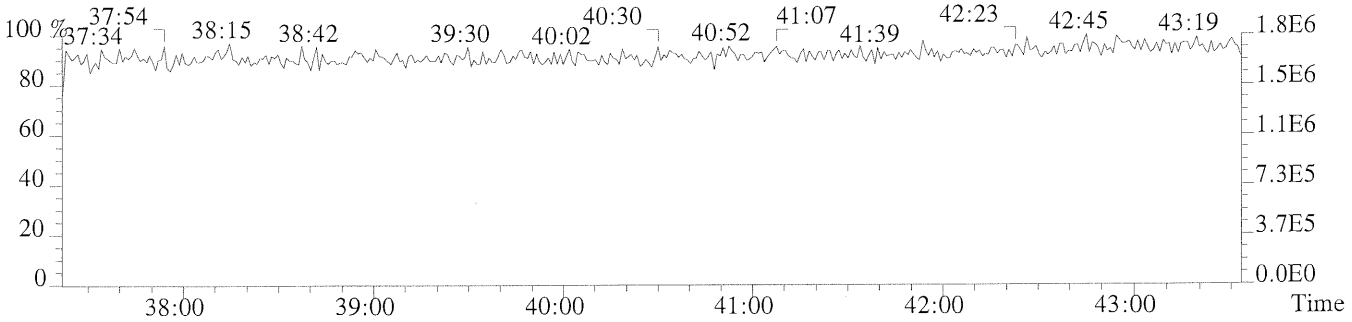
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3744.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1108.0,1.00%,F,T)

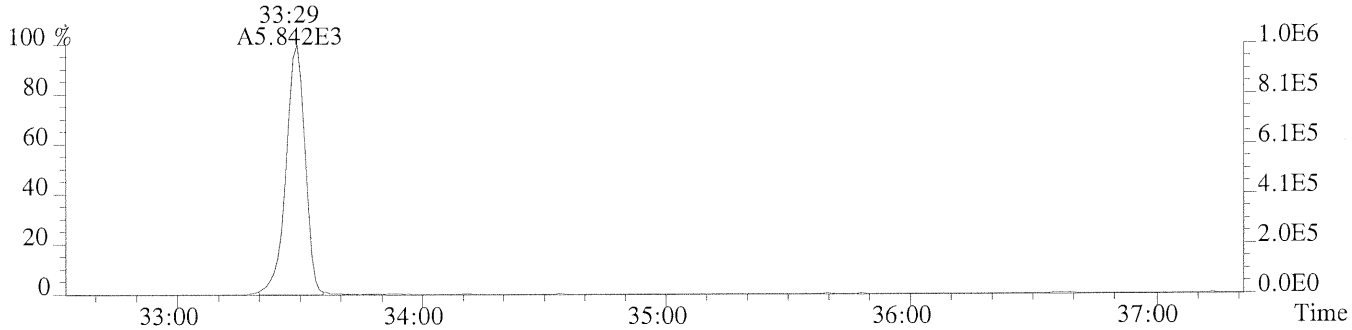


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

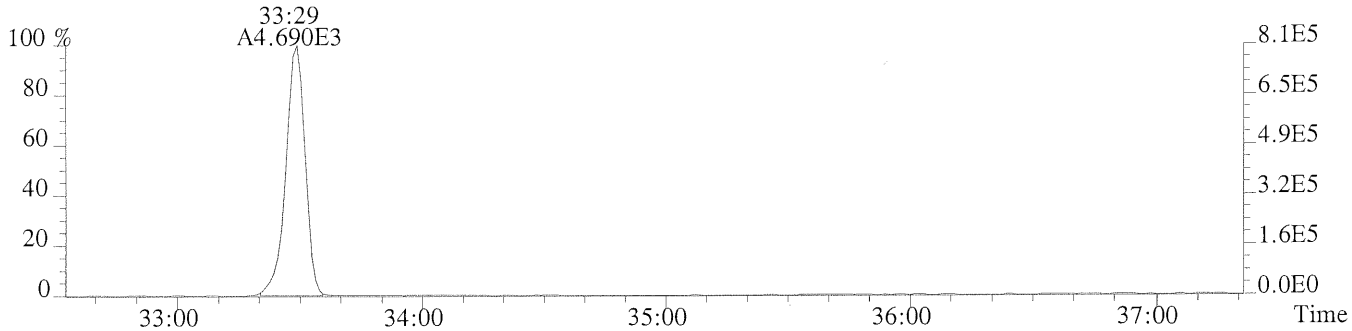


File:U142053 #1-308 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

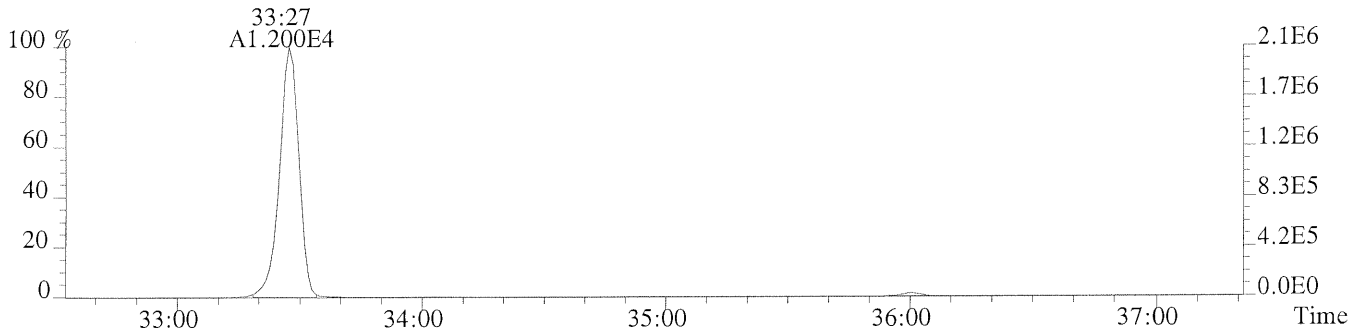
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,916.0,1.00%,F,T)



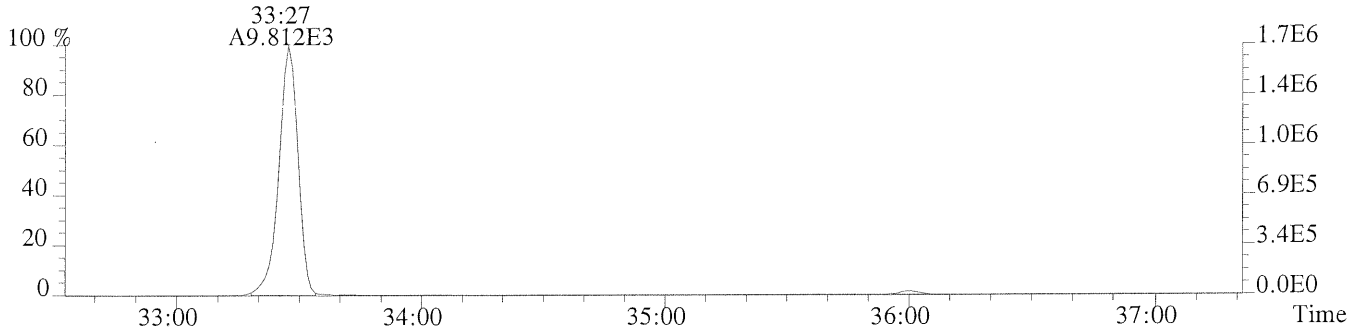
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1328.0,1.00%,F,T)



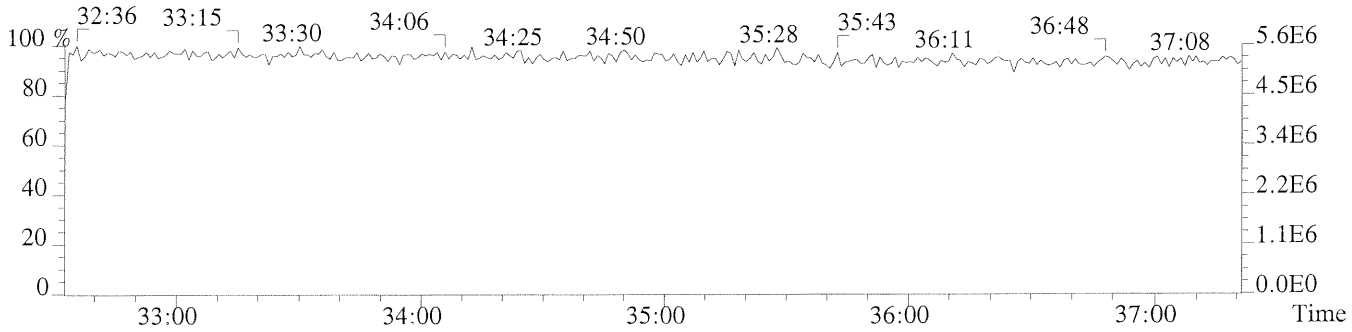
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1128.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1016.0,1.00%,F,T)

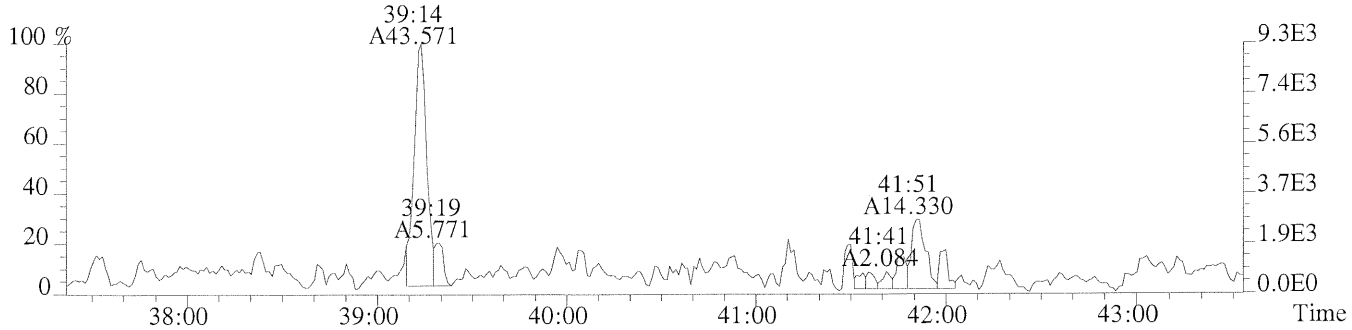


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

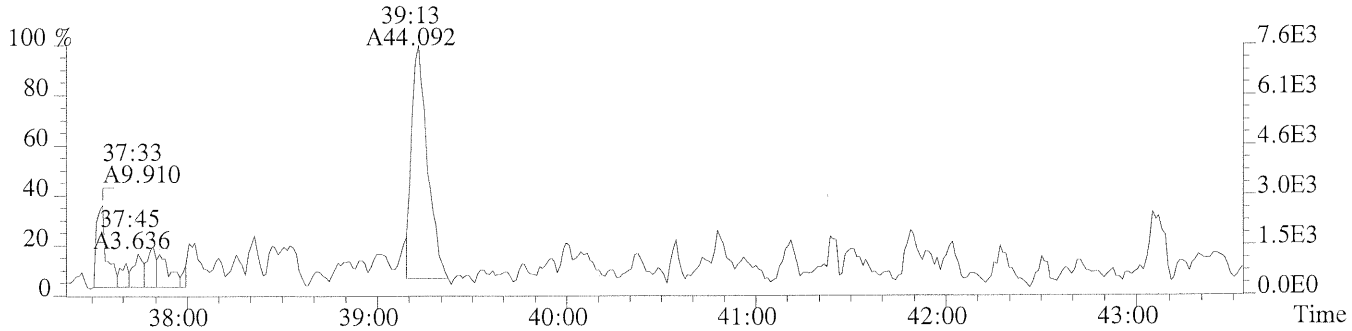


File:U142053 #1-396 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

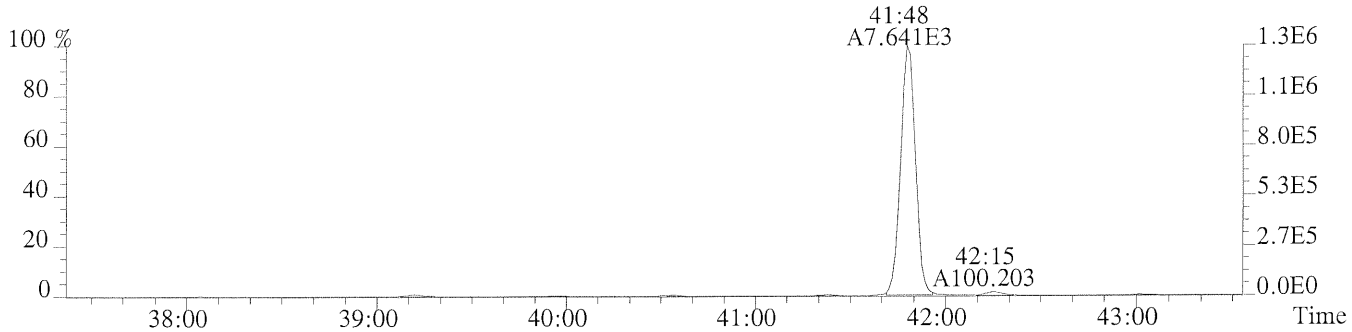
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,936.0,1.00%,F,T)



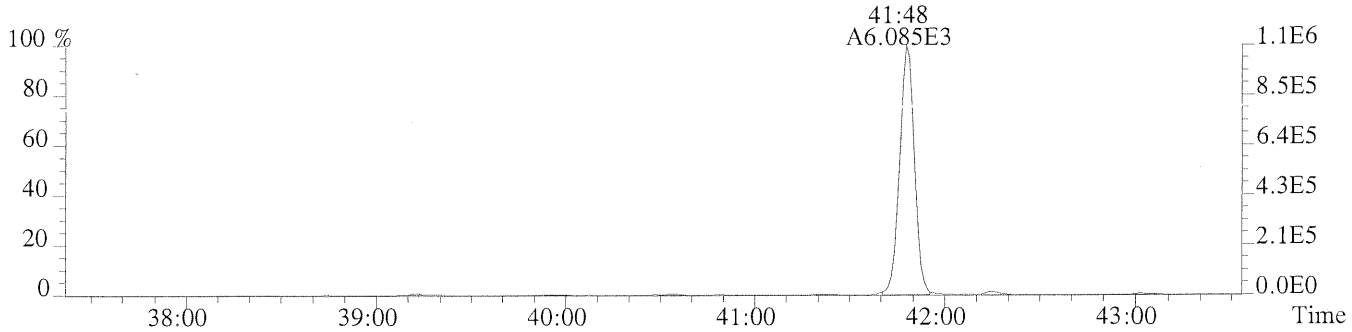
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1096.0,1.00%,F,T)



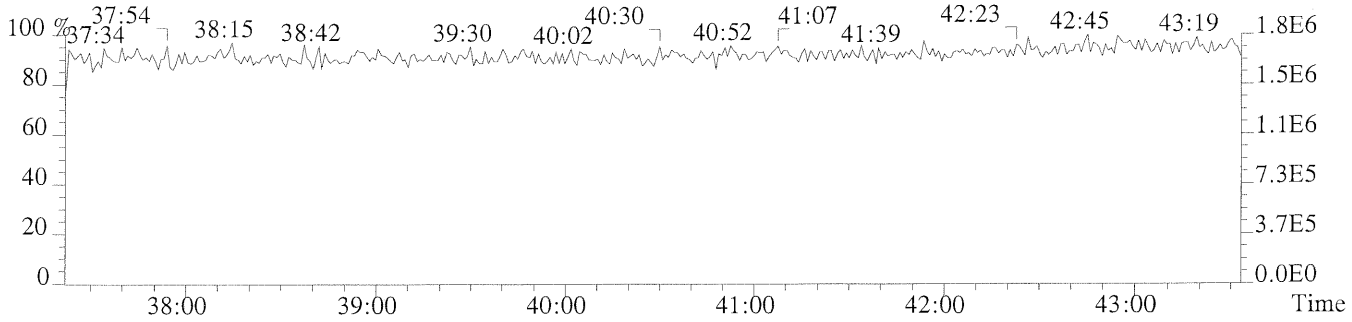
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)

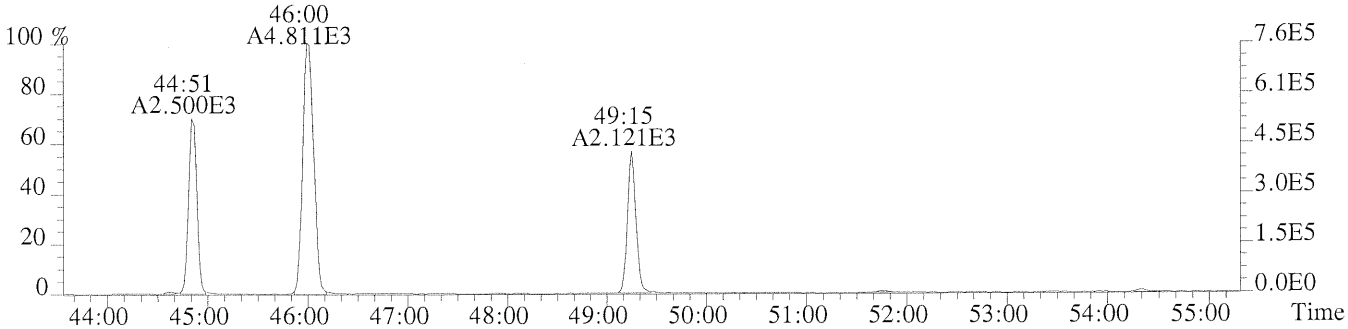


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

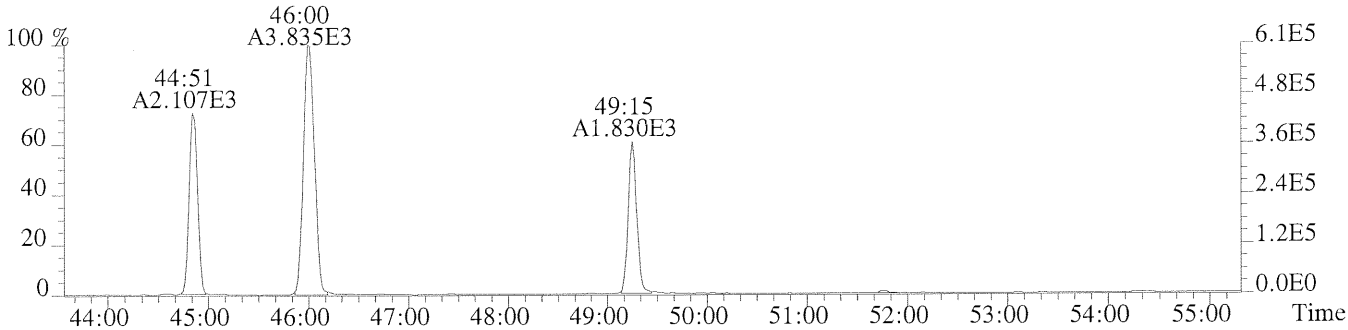


File:U142053 #1-582 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

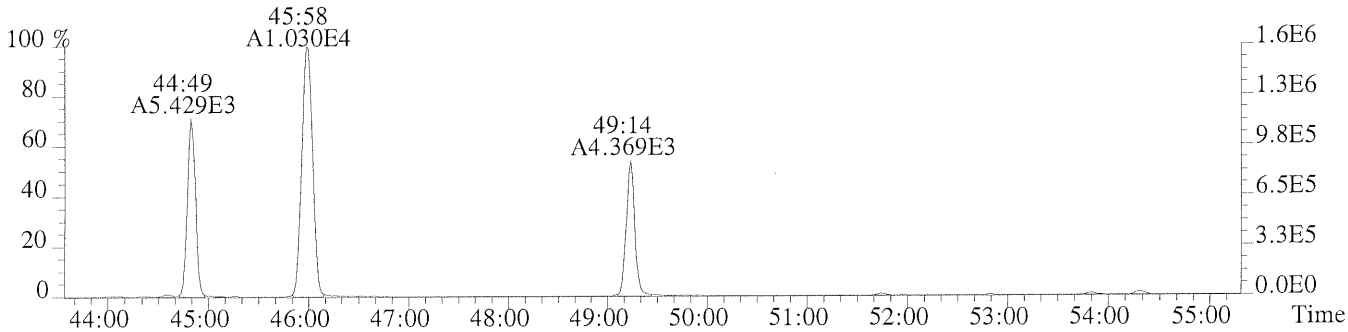
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1284.0,1.00%,F,T)



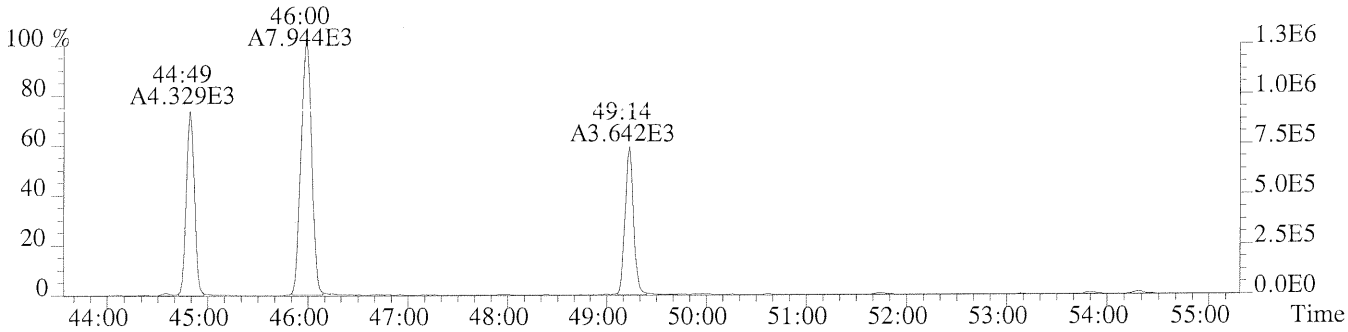
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2352.0,1.00%,F,T)



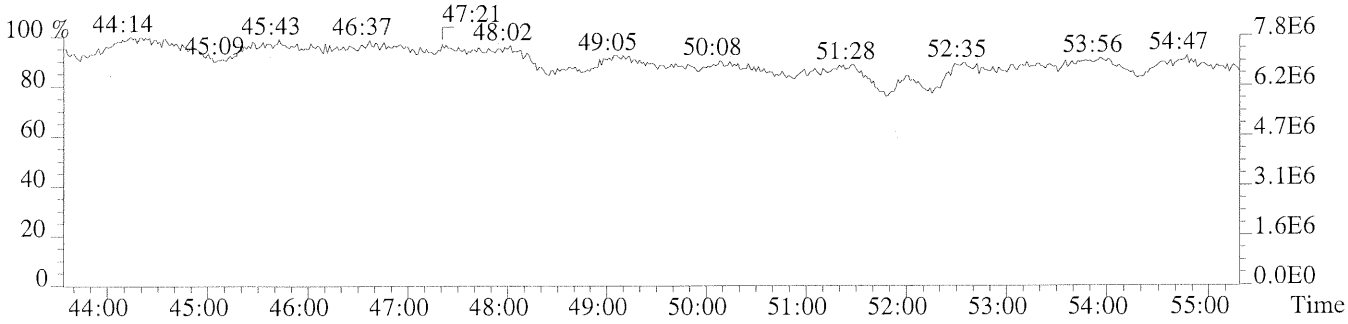
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1892.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)

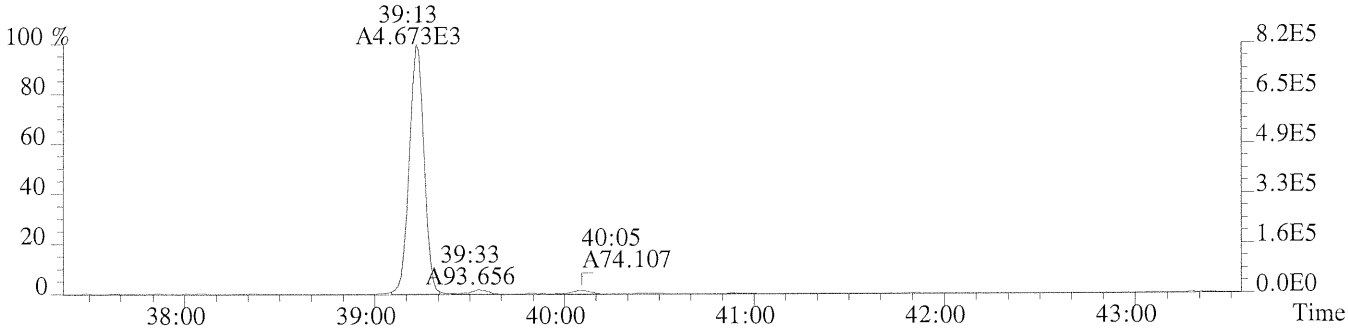


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

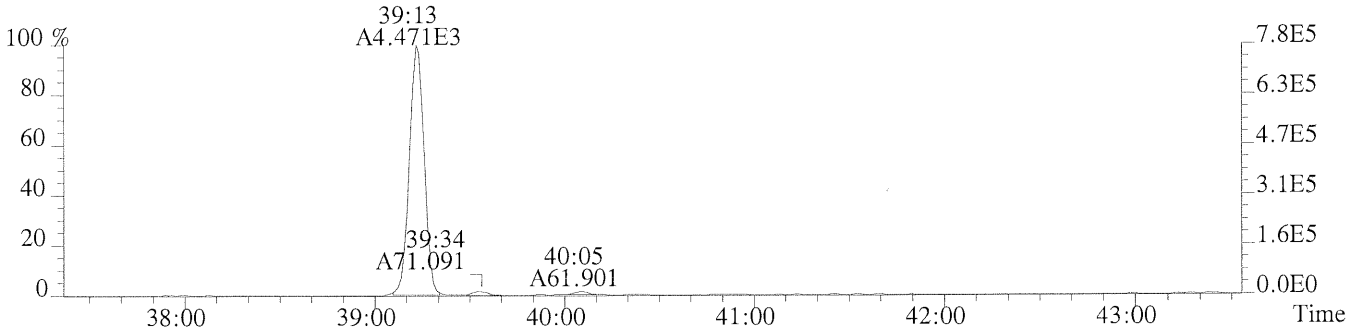


File:U142053 #1-396 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

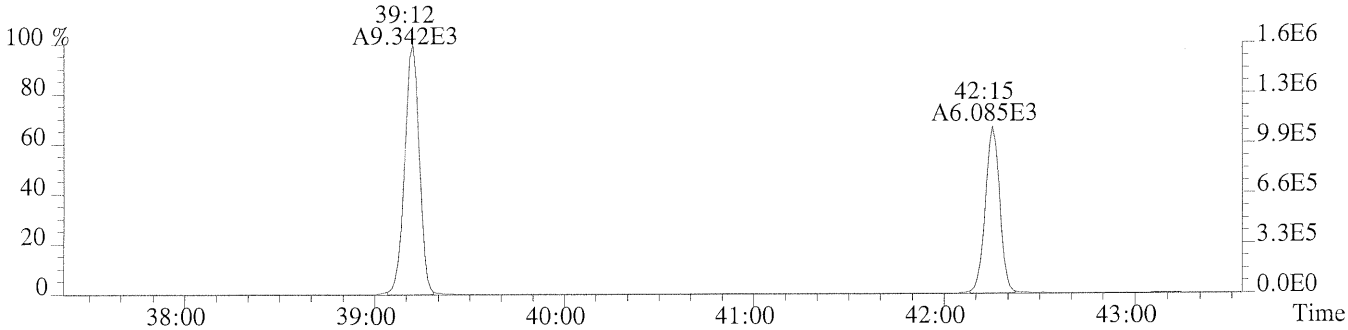
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,688.0,1.00%,F,T)



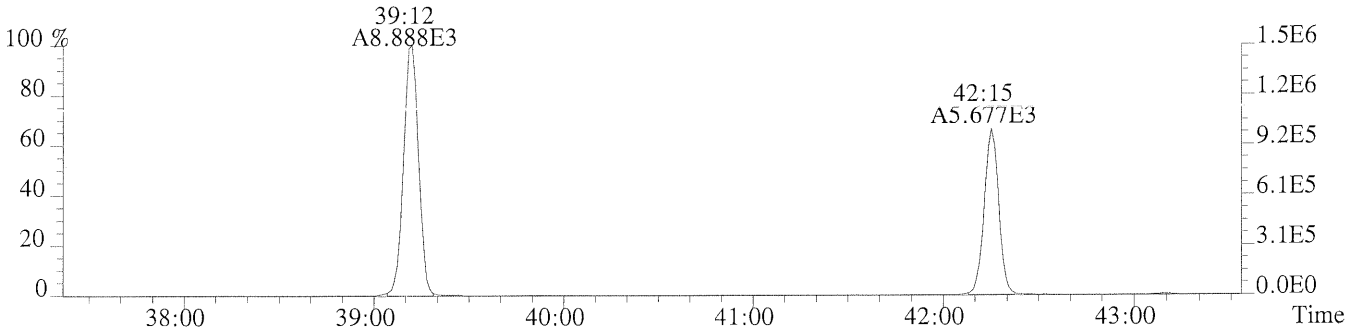
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,956.0,1.00%,F,T)



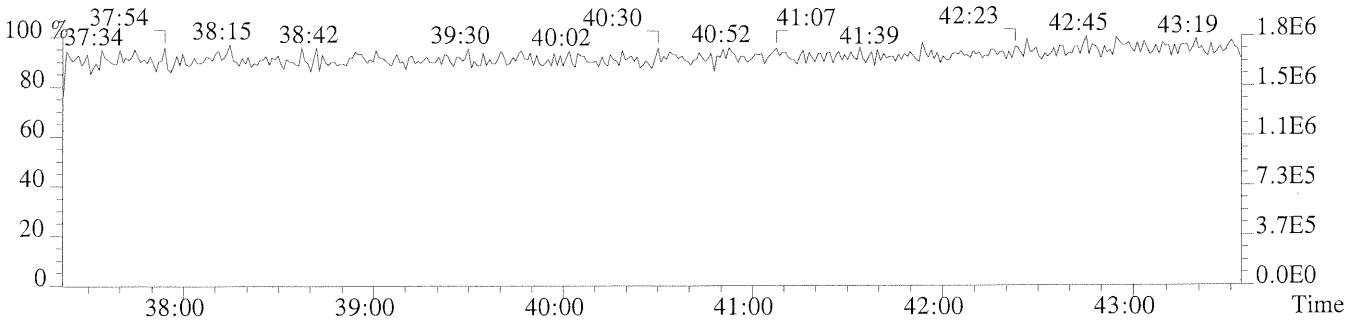
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1376.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)

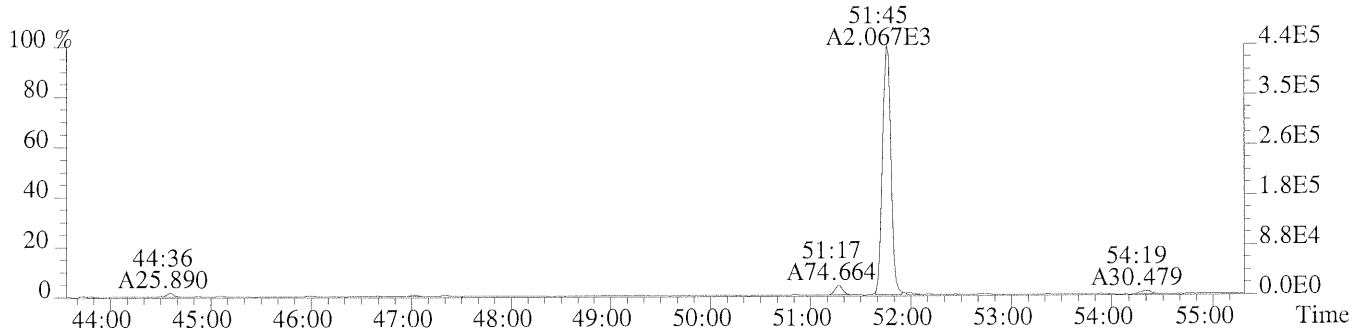


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

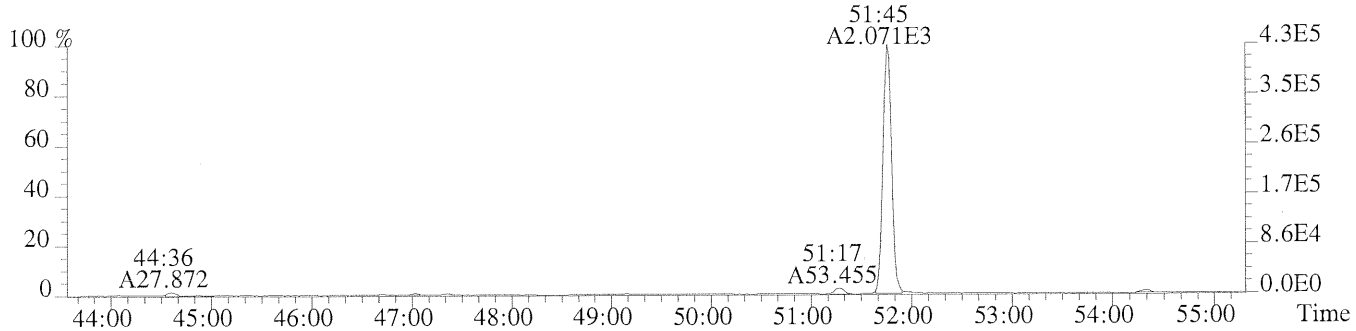


File:U142053 #1-582 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

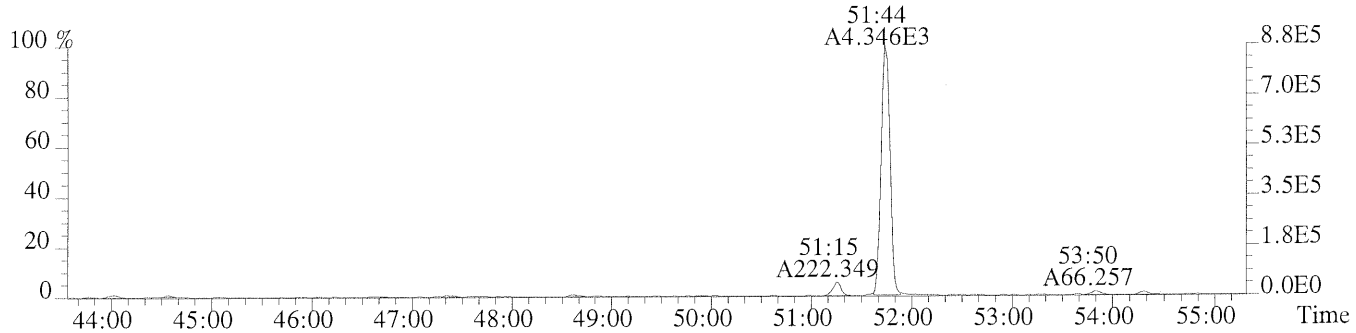
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1256.0,1.00%,F,T)



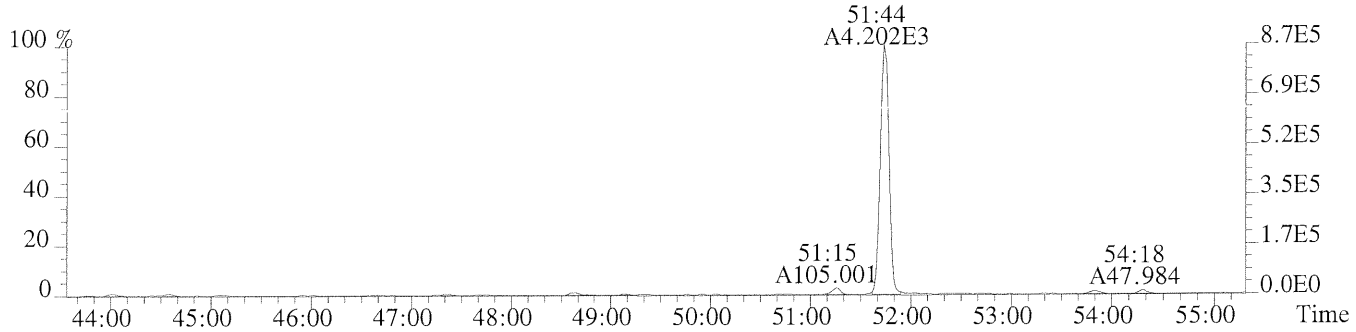
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1020.0,1.00%,F,T)



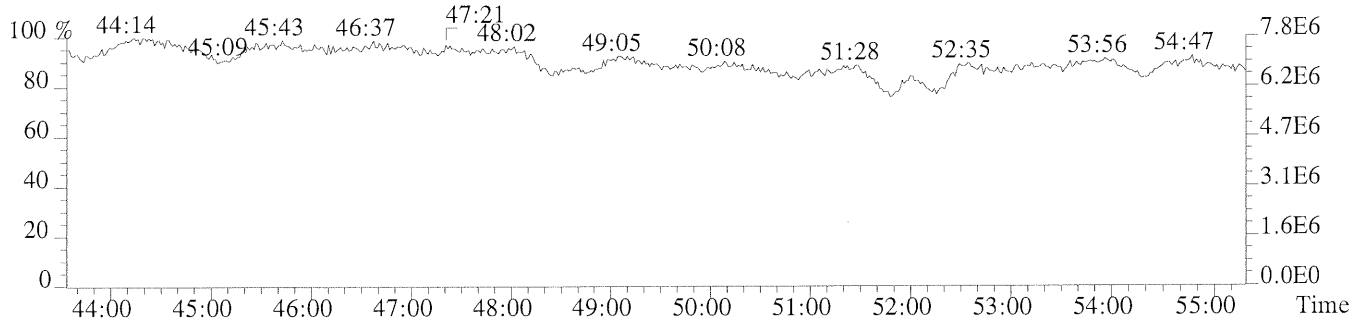
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)

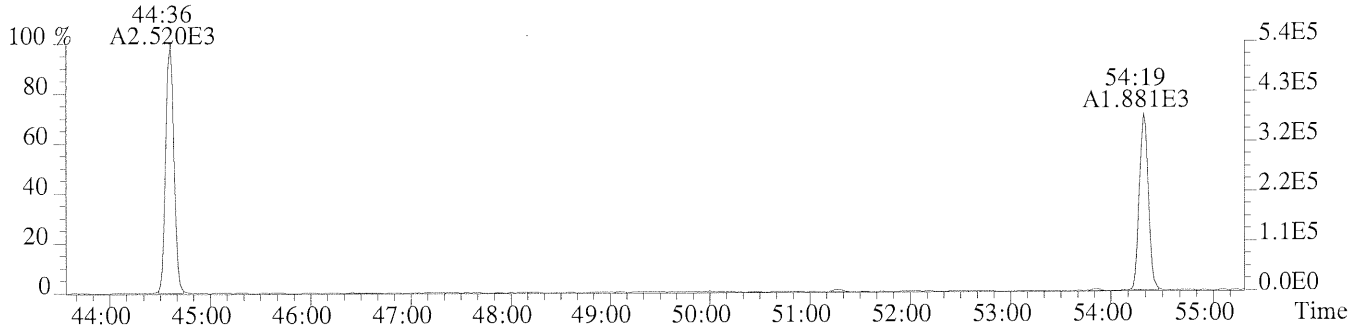


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

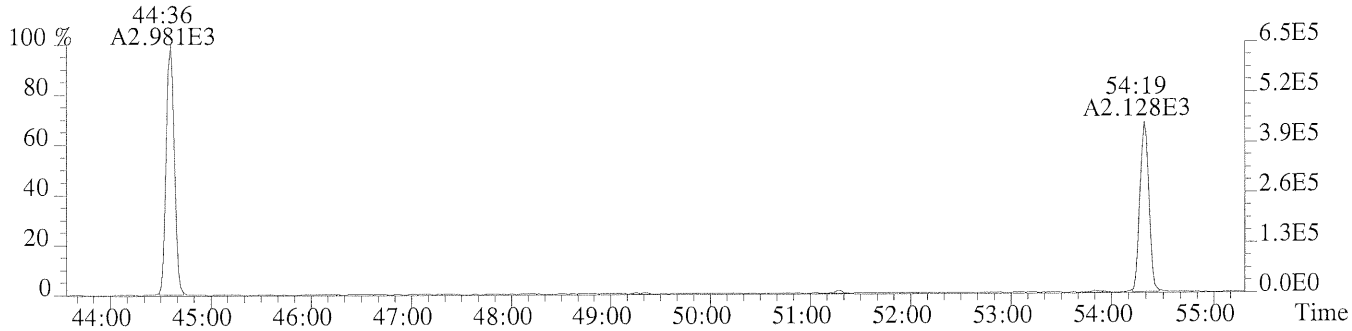


File:U142053 #1-582 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

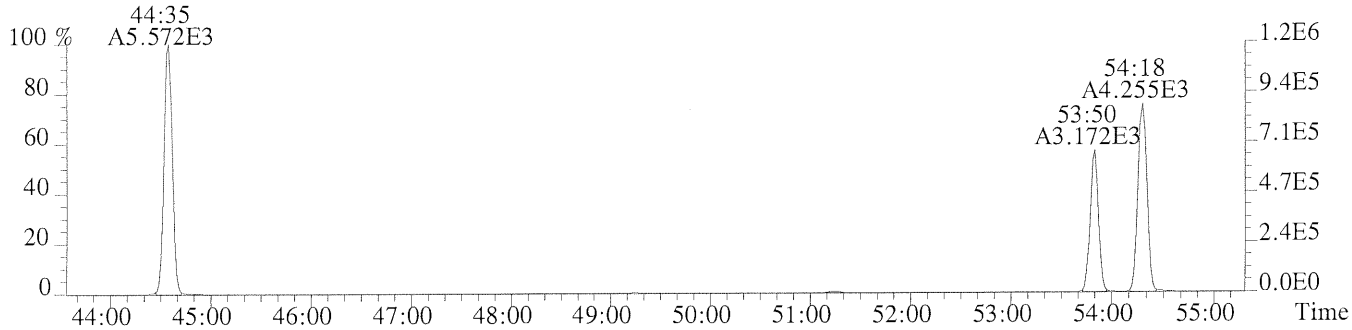
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



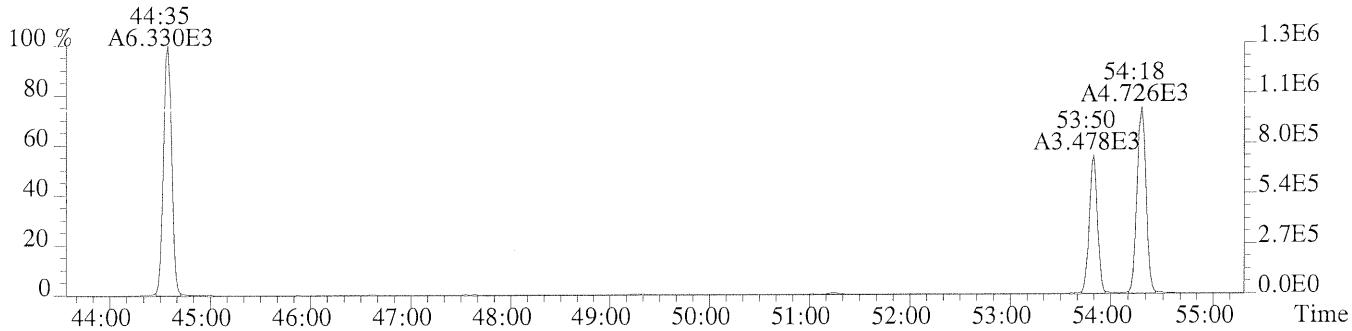
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1212.0,1.00%,F,T)



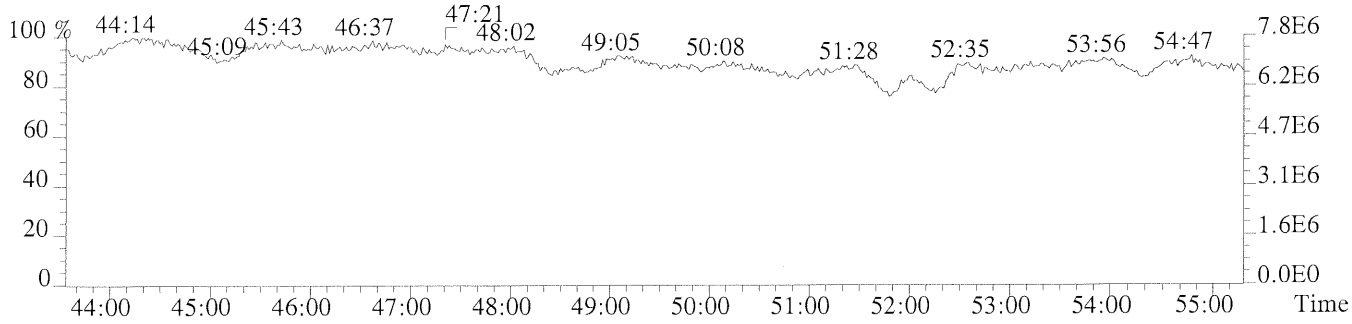
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1452.0,1.00%,F,T)

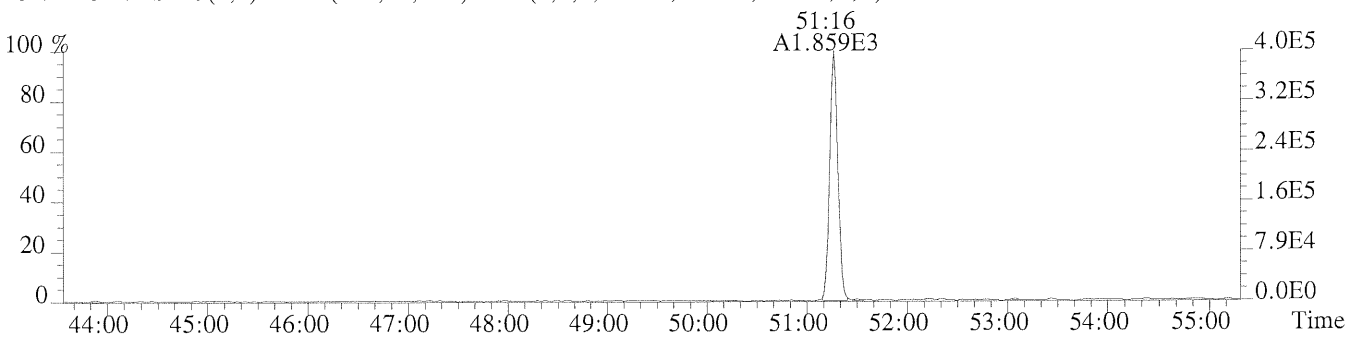


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

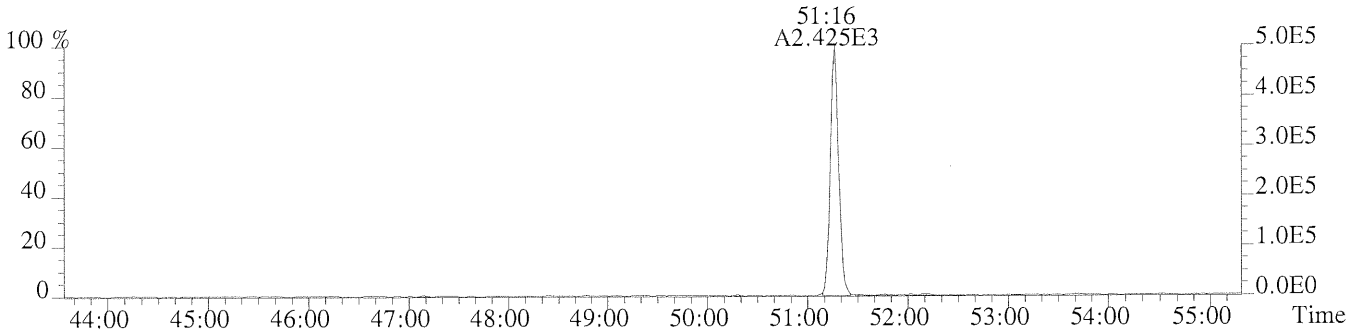


File:U142053 #1-582 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

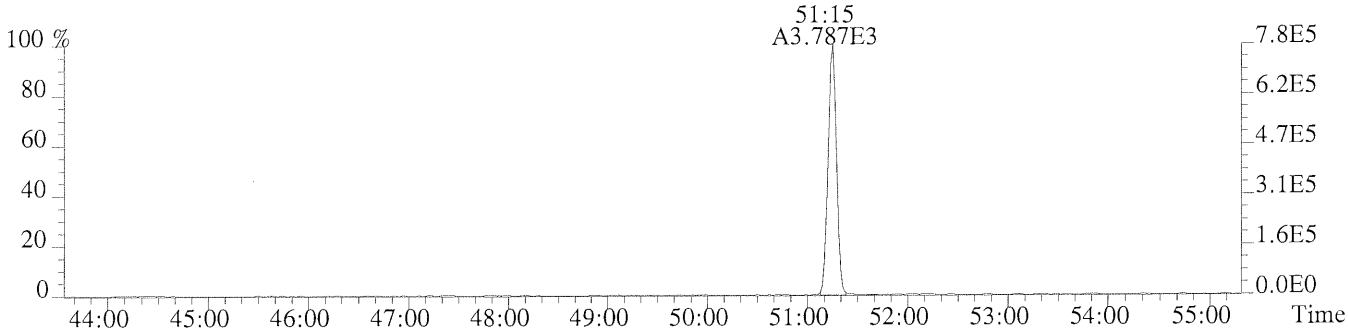
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1308.0,1.00%,F,T)



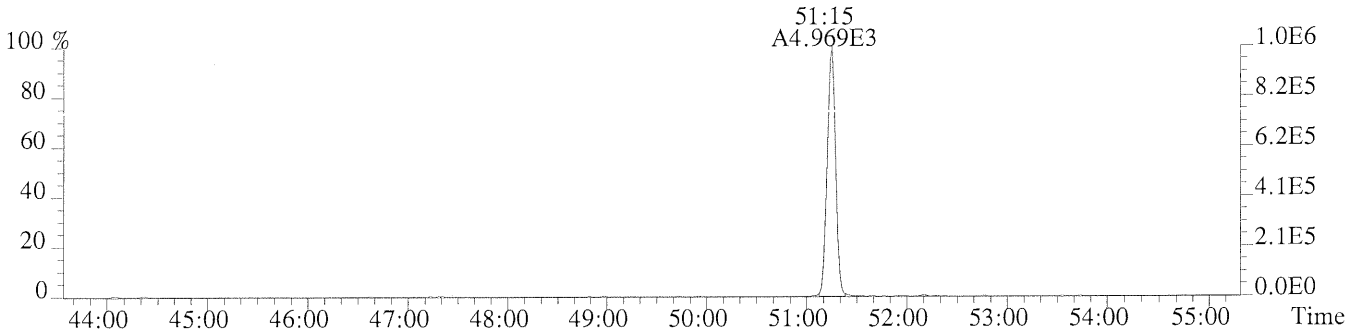
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



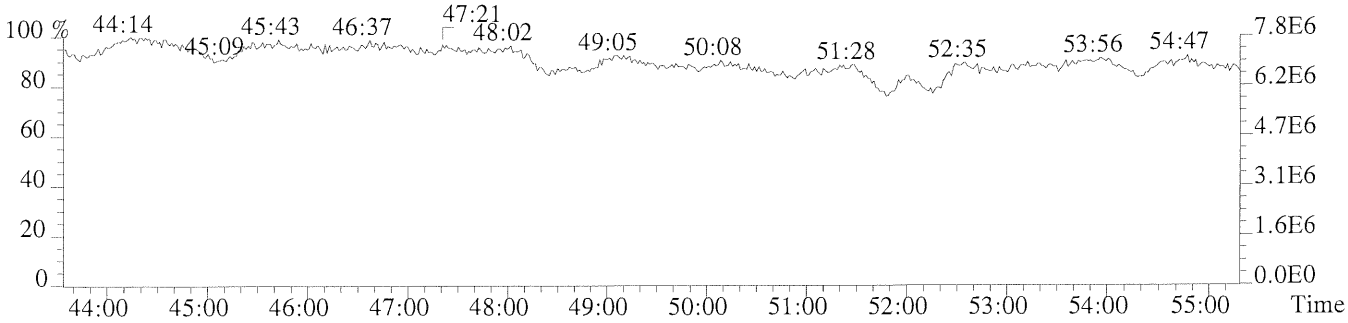
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1032.0,1.00%,F,T)

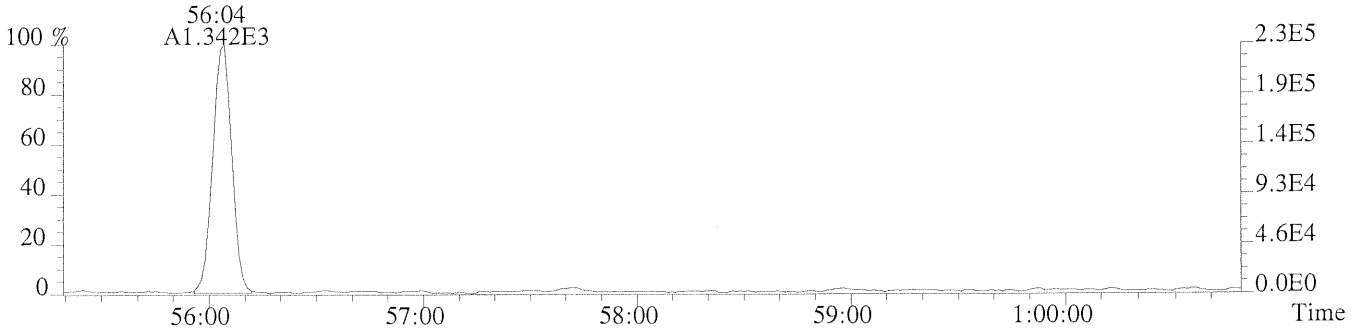


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

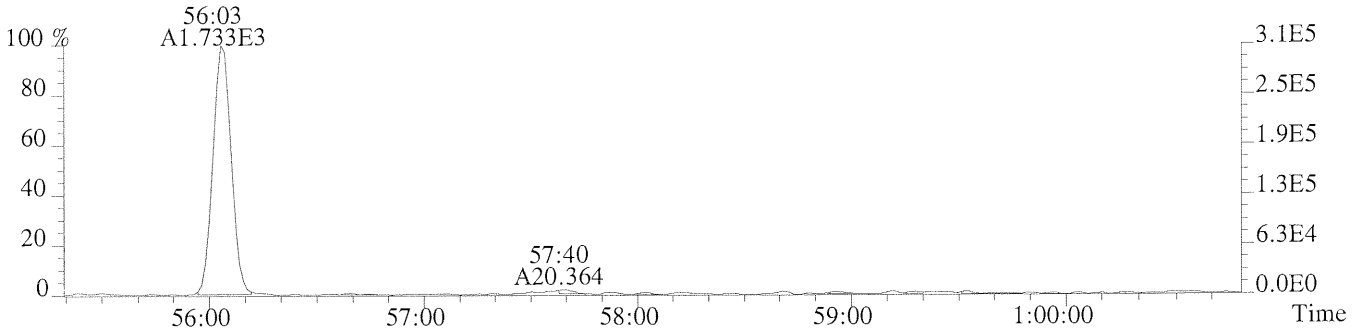


File:U142053 #1-310 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

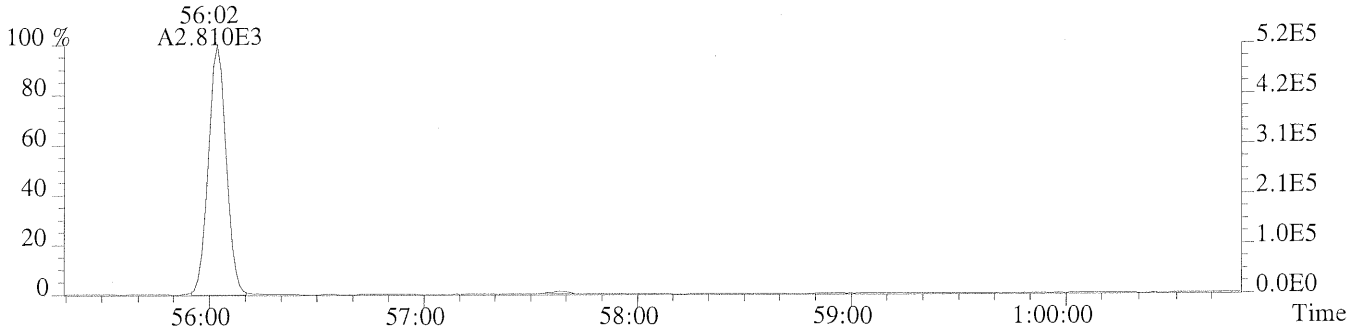
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3132.0,1.00%,F,T)



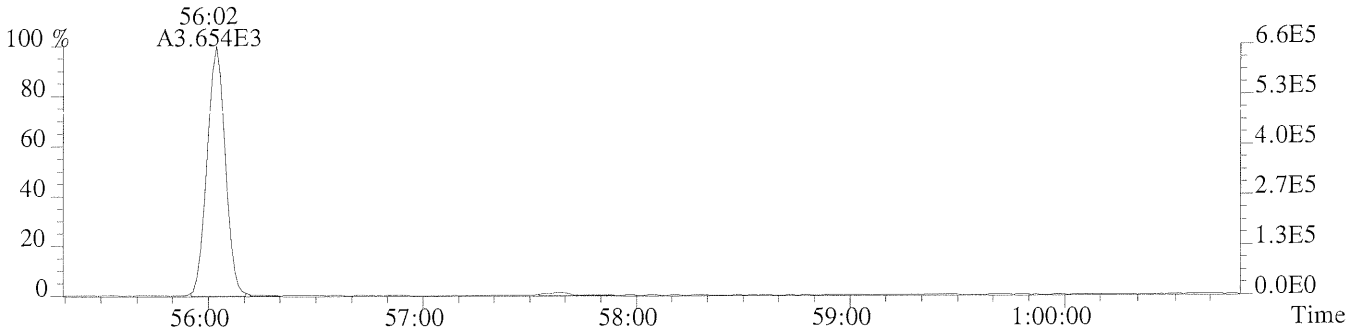
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)



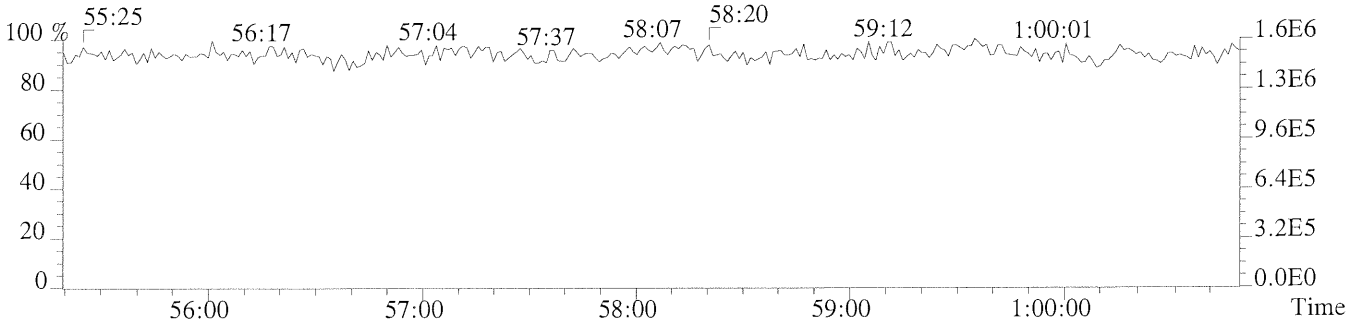
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1336.0,1.00%,F,T)

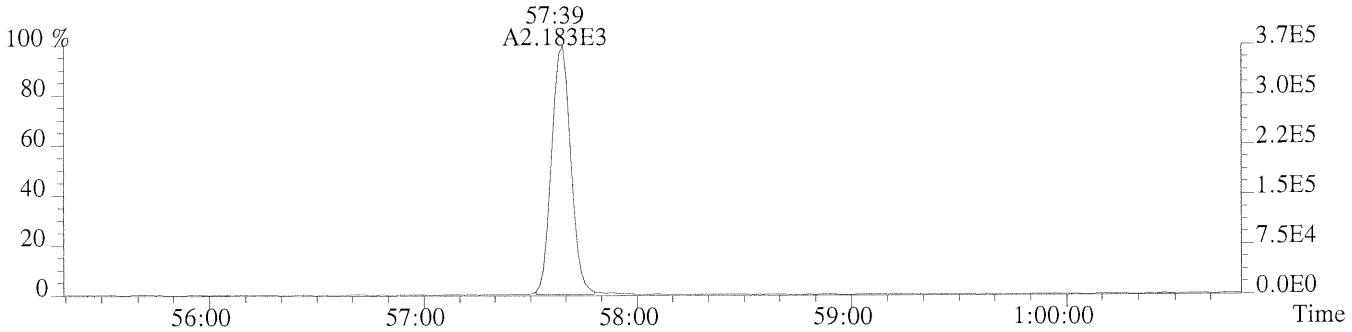


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

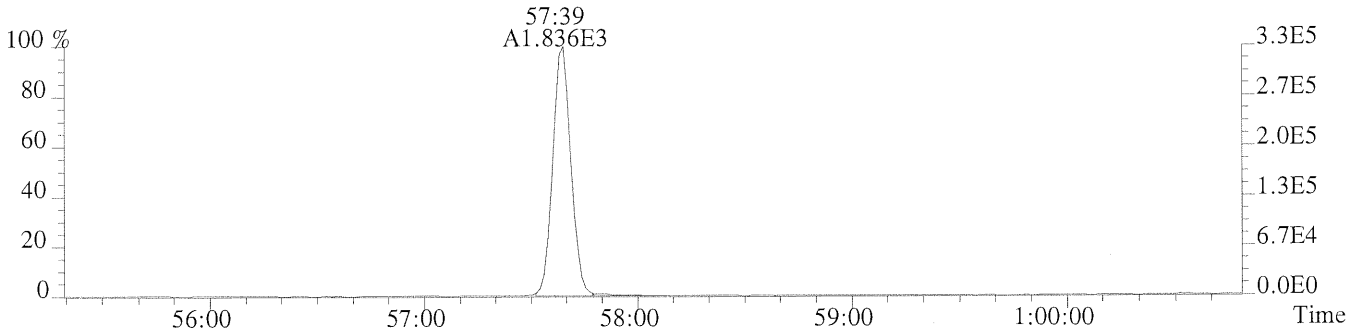


File:U142053 #1-310 Acq: 7-NOV-2011 06:40:39 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

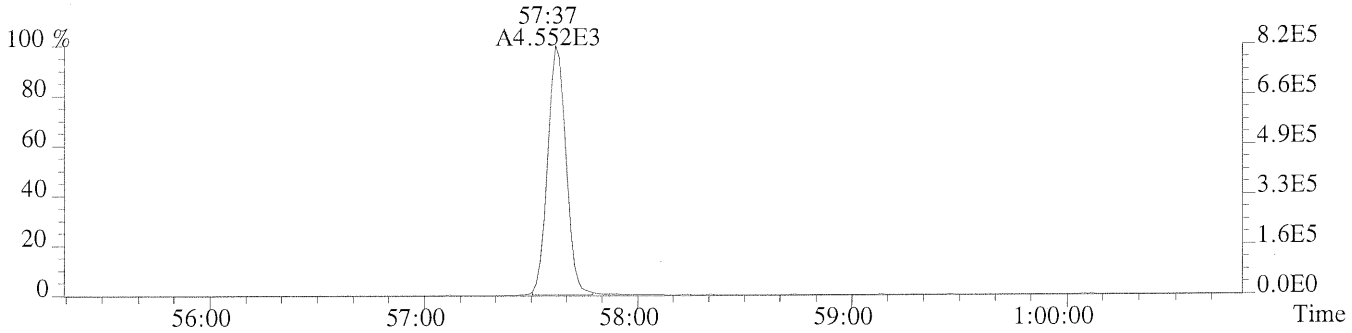
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,748.0,1.00%,F,T)



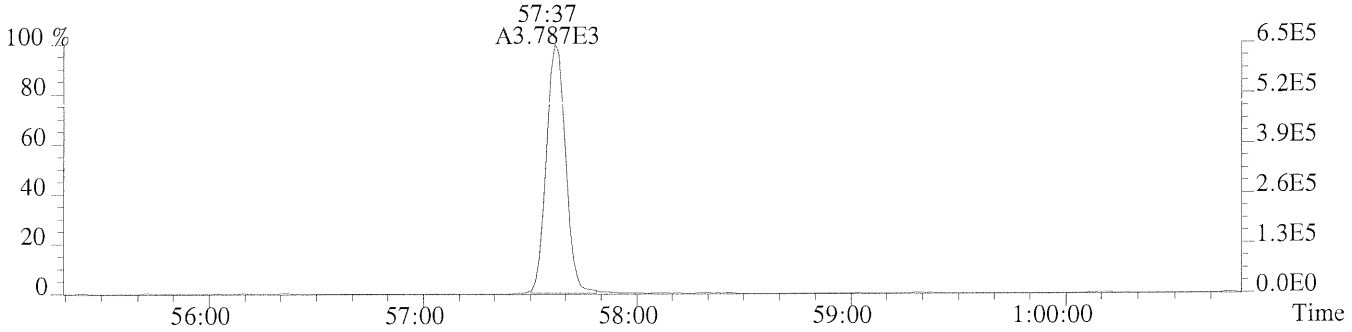
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,828.0,1.00%,F,T)



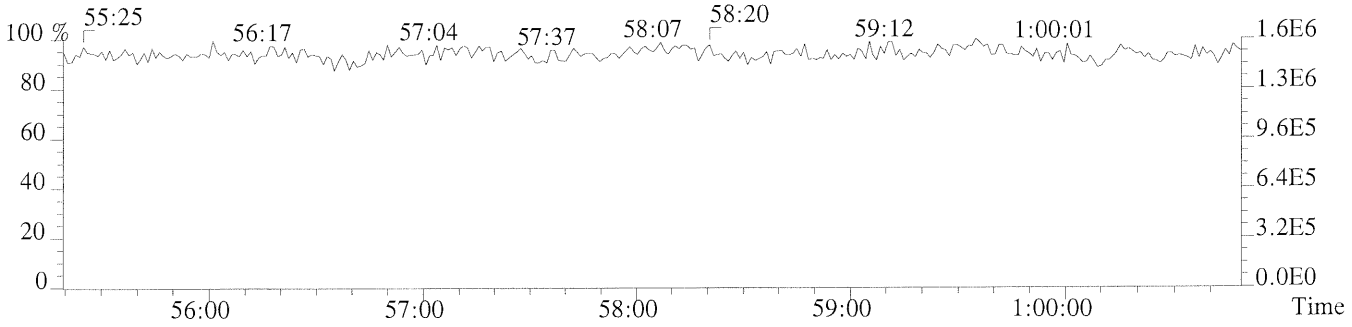
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



RW/CS3 Daily Calibration QC Checklist

Calibration File Name: 0142063

Circle one
Beginning **Ending**

Date: 8 Nov 11

Method: **1668 WHO** **1668 Total** **1668 (209)** **1668 WHO & TOTAL**

Date	11/16/11	**First Reviewer**	

Date	11/18/11	**Second Reviewer**	

5DFC
PCDD/PCDF/PCB ANALYTICAL SEQUENCE SUMMARY

Lab Name: Columbia Analytical Services Contract:

Lab Code: TX01411 Case No.: SDG No.:

GC Column: SPB-OCTYL ID: 0.25 (mm) Instrument ID: E-HRMS-01

Init. Calib. Date: 02/23/11

Init. Calib.Times: 09:22

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, AND LABORATORY CONTROL SAMPLES (LCSs) IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CCAL CS3		U142063	8-NOV-11	06:56:35
DCCS-209	B4-25-1	U142062	8-NOV-11	05:31:30
DCCS-209	B4-25-1	U142062	8-NOV-11	05:31:30
METHOD BLANK	EQ1100494-01	U142064	8-NOV-11	08:18:53
B4CS-CS2-PCBs	don't use	U142065	8-NOV-11	09:21:32
B4CS-IA1-PCBs	E1101017-006	U142066	8-NOV-11	10:29:50
B4-IA2-PCBs	E1101017-007	U142067	8-NOV-11	11:38:03
B4-OA1-PCBs	E1101017-008	U142068	8-NOV-11	12:46:21
B4-OA2-PCBs	E1101017-009	U142069	8-NOV-11	13:54:33
B4-BLANK-PCBs	E1101017-010	U142070	8-NOV-11	15:02:06
B4-DUP-PCBs	DON'T USE	U142071	8-NOV-11	16:10:20

E1101017

783 of 1415

Sample List Report MassLynx 4.1

Columbia Analytical Services
19408 Park Row
Suite 320
Houston, Texas 77084

Sample List: C:\MassLynx\CASHOUSTON.PRO\SampleDB\U1111108.SPL
Last Modified: Tuesday, November 08, 2011 15:05:01 Central Standard Time
Printed: Tuesday, November 08, 2011 15:09:40 Central Standard Time

Page Position (1, 1)

C: U142063CAL/RES/SURR

	Date	Time	File Name	Sample ID	Client ID	Analyst	Comments	GC Met	Acq Met
1	11/08/11	05:31	U142062	PCB 209 INJECTION	B4-25-1		HRMS check 05:27	1668EPA	1668EPA
2		06:56	U142063	CCAL CS3	B2-26-1			1668EPA	1668EPA
3		08:18	U142064	EQ1100494-01	MB			1668EPA	1668EPA
4		09:21	U142065	E1101017-005	B4CS-CS2-PCBs			1668EPA	1668EPA
5		10:29	U142066	E1101017-006	B4-IA1-PCBs			1668EPA	1668EPA
6		11:38	U142067	E1101017-007	B4-IA2-PCBs			1668EPA	1668EPA
7		12:46	U142068	E1101017-008	B4-OA1-PCBs			1668EPA	1668EPA
8		13:54	U142069	E1101017-009	B4-OA2-PCBs			1668EPA	1668EPA
9		15:02	U142070	E1101017-010	B4-Blank-PCBs			1668EPA	1668EPA
10		16:10	U142071	E1101017-011	B4-Dup-PCBs		HRMS check 18:39	1668EPA	1668EPA
11			---	---	---			1668EPA	1668EPA
12			---	---	---			1668EPA	1668EPA
13			---	---	---			1668EPA	1668EPA
14			---	---	---			1668EPA	1668EPA
15			---	---	---			1668EPA	1668EPA
16			---	---	---			1668EPA	1668EPA
17			---	---	---			1668EPA	1668EPA
18			---	---	---			1668EPA	1668EPA
19			---	---	---			---	---
20			---	---	---			---	---
21			---	---	---			TCDFCAS	TCDFCAS
22			---	---	---			1668EPA	1668EPA
23			---	---	---			---	---
24			---	---	---			---	---
25			---	---	---			TCDFCAS	TCDFCAS
26			---	---	---			TCDFCAS	TCDFCAS
27			---	---	---			1668EPA	1668EPA
28			---	---	---			1668EPA	1668EPA
29			---	---	---			8290cas	8290CAS
30			---	---	---			TCDFCAS	TCDFCAS
31			---	---	---			---	---
32			---	---	---			---	---
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37	---	---	---	---	---	---		---	---
38	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---

FILE U142061 SKIPPED OVER
NO DATA 11/09/11

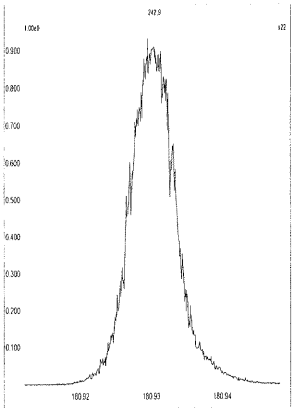
Reviewed By: 11/16/11

Experiment Calibration Report **MassLynx 4.1**

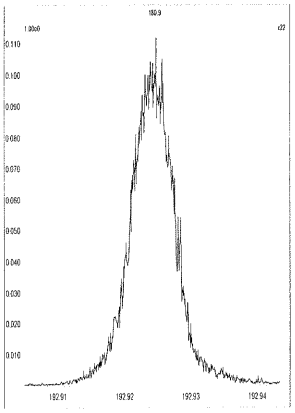
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 05:27:38 Central Standard Time

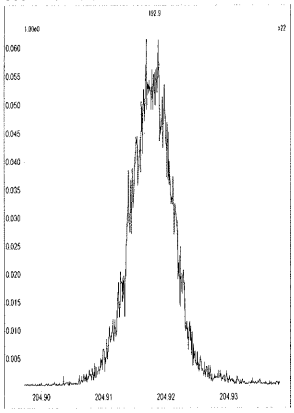
M 180.9888 R 11208



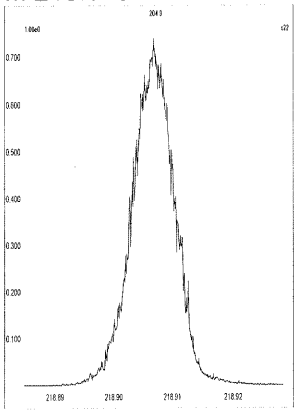
M 192.9888 R 12253



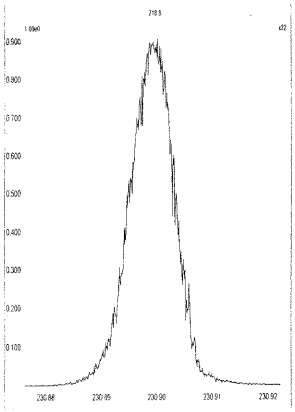
M 204.9888 R 13660



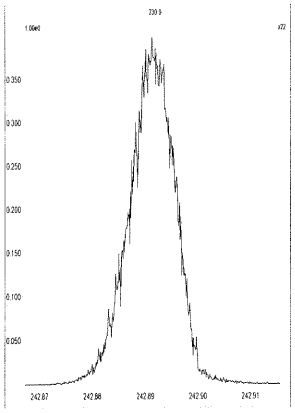
M 218.9856 R 13588



M 230.9856 R 12560



M 242.9856 R 12502

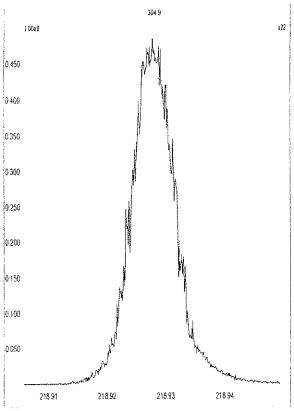


Experiment Calibration Report **MassLynx 4.1**

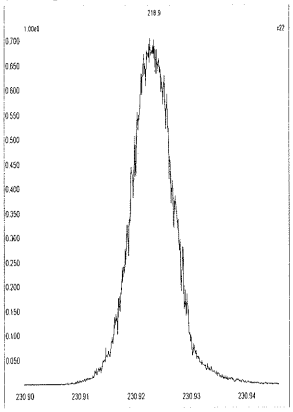
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 05:28:24 Central Standard Time

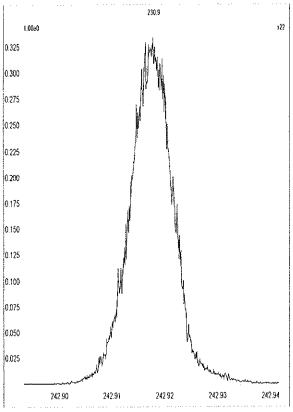
M 218.9856 R 11413



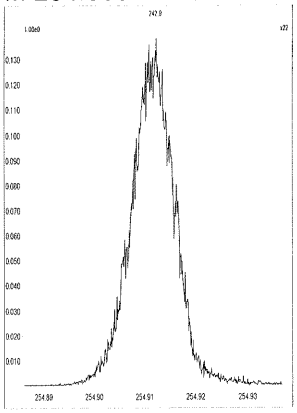
M 230.9856 R 12318



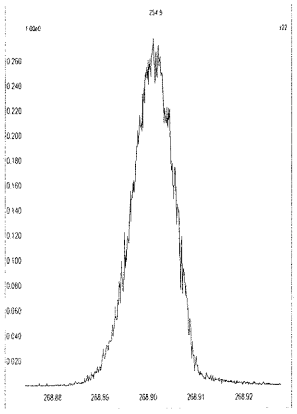
M 242.9856 R 12254



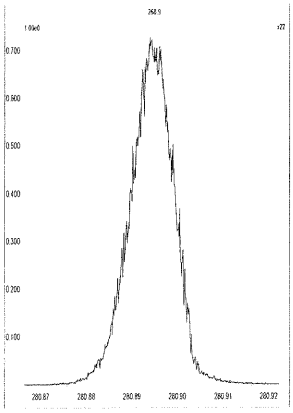
M 254.9856 R 12887



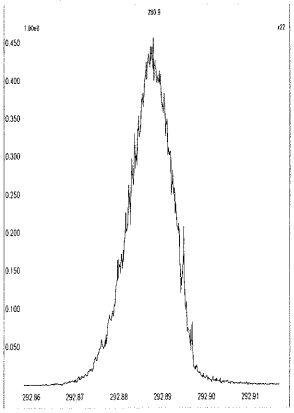
M 268.9824 R 13806



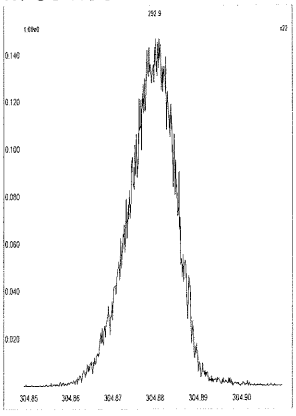
M 280.9824 R 13367



M 292.9824 R 12629



M 304.9824 R 12315

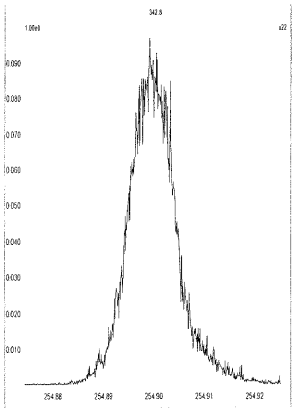


Experiment Calibration Report **MassLynx 4.1**

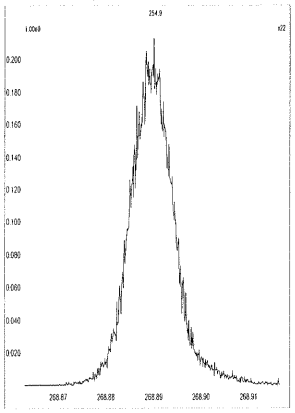
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 05:28:54 Central Standard Time

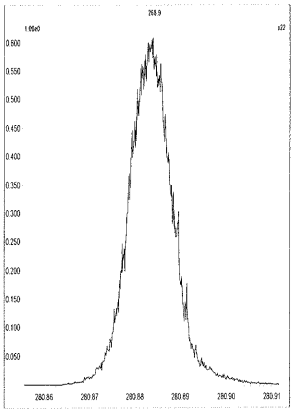
M 254.9856 R 10683



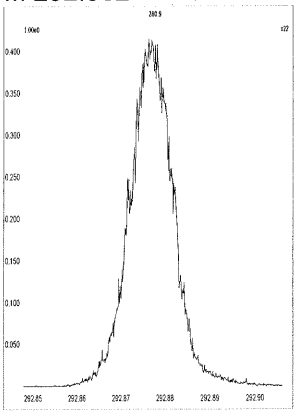
M 268.9824 R 11256



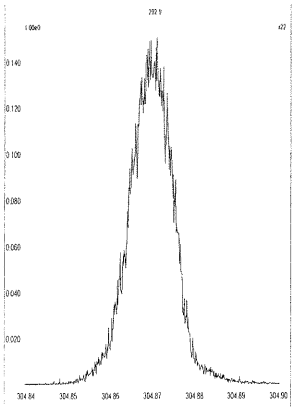
M 280.9824 R 12253



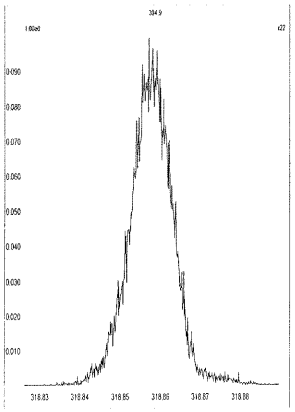
M 292.9824 R 12378



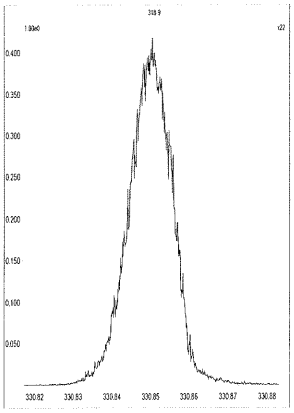
M 304.9824 R 12437



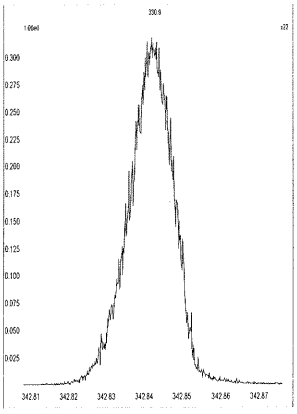
M 318.9792 R 13366



M 330.9792 R 12750



M 342.9792 R 12504

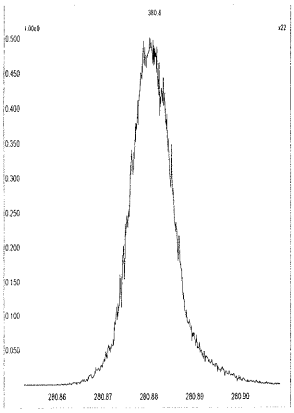


Experiment Calibration Report **MassLynx 4.1**

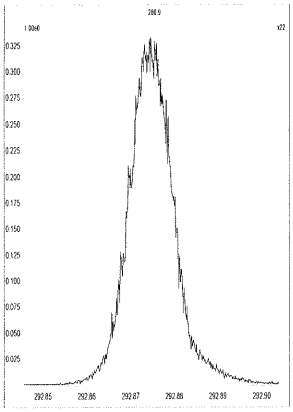
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 05:29:22 Central Standard Time

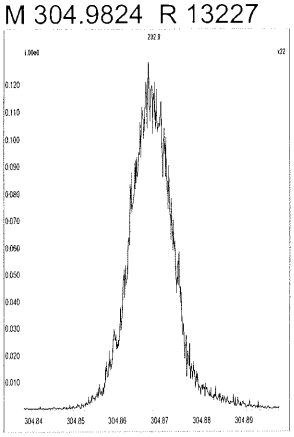
M 280.9824 R 11011



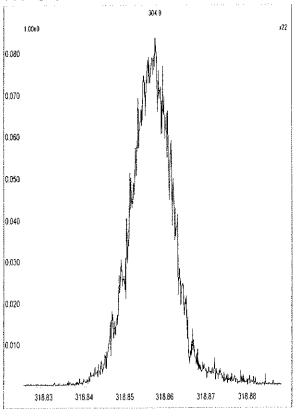
M 292.9824 R 11576



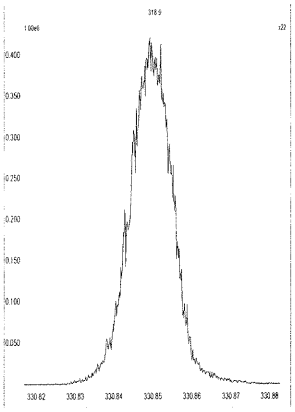
M 304.9824 R 13227



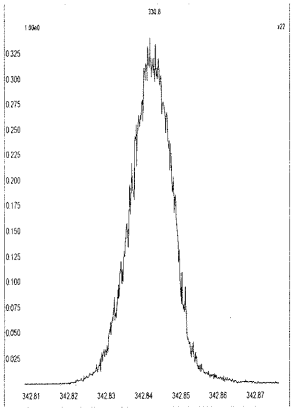
M 318.9792 R 13665



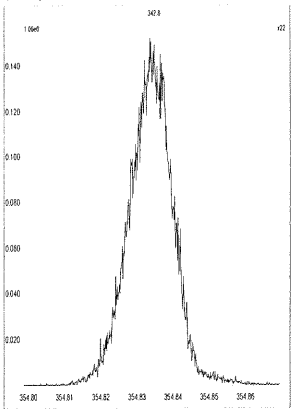
M 330.9792 R 12756



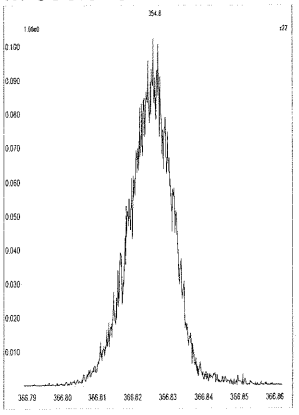
M 342.9792 R 13156



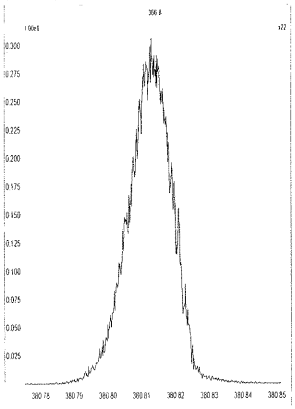
M 354.9792 R 12888



M 366.9792 R 13089



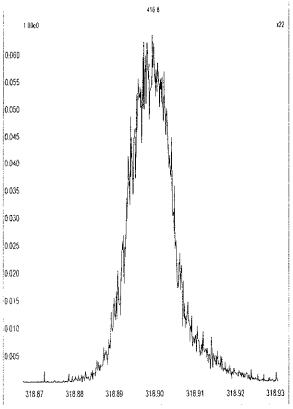
M 380.9760 R 13087



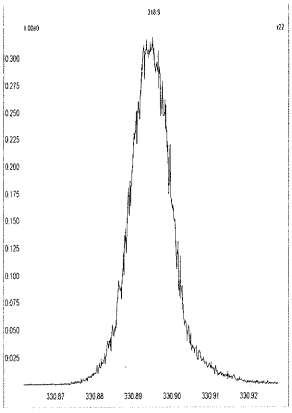
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 05:29:50 Central Standard Time

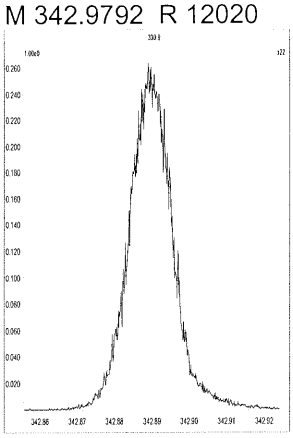
M 318.9792 R 10638



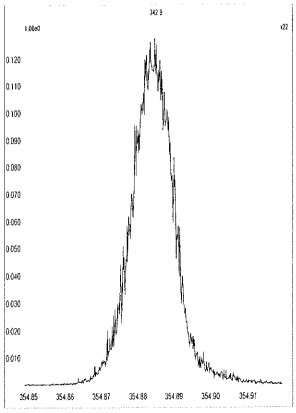
M 330.9792 R 12074



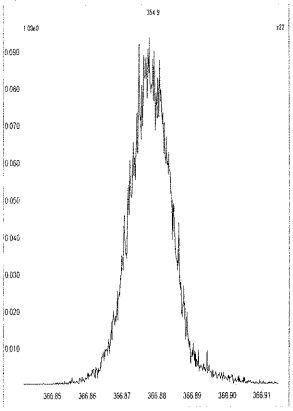
M 342.9792 R 12020



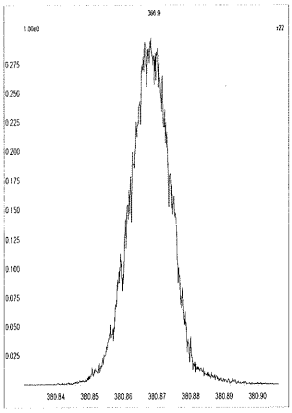
M 354.9792 R 12319



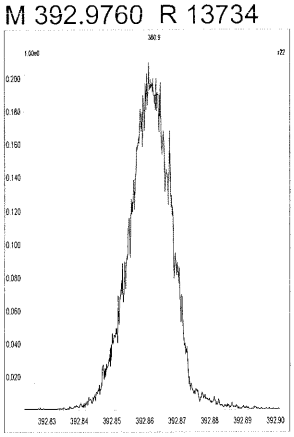
M 366.9792 R 13022



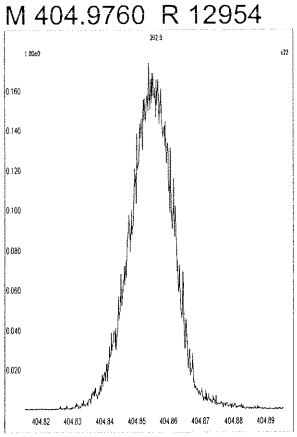
M 380.9760 R 13966



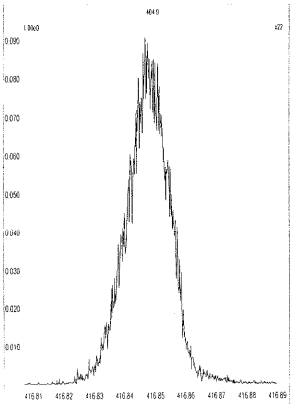
M 392.9760 R 13734



M 404.9760 R 12954



M 416.9760 R 13368

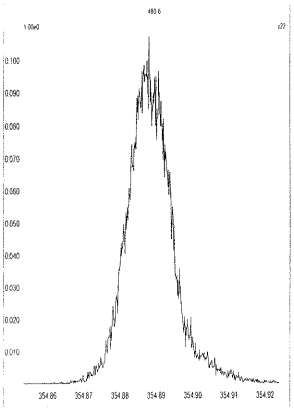


Experiment Calibration Report **MassLynx 4.1**

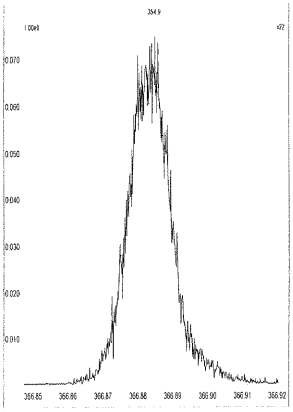
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 05:30:18 Central Standard Time

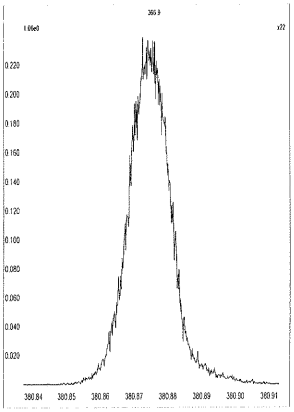
M 354.9792 R 10873



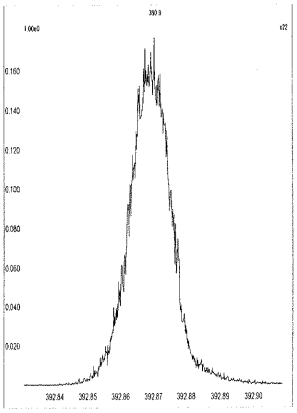
M 366.9792 R 11113



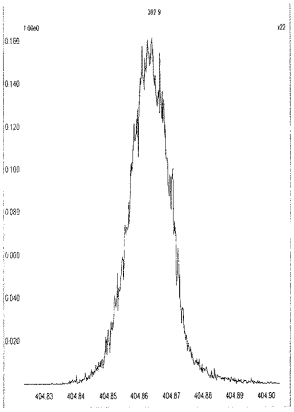
M 380.9760 R 13021



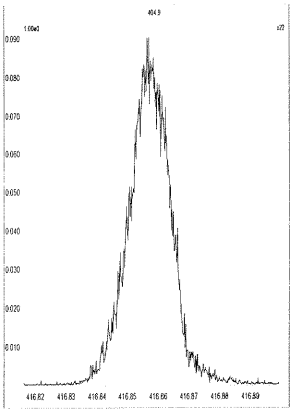
M 392.9760 R 12566



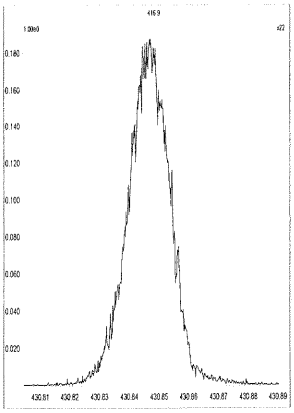
M 404.9760 R 12622



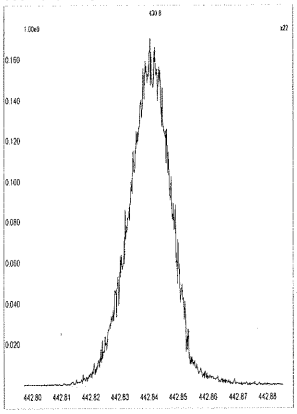
M 416.9760 R 12952



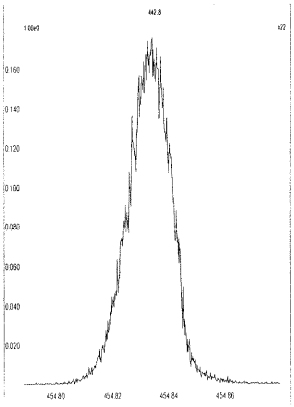
M 430.9728 R 13664



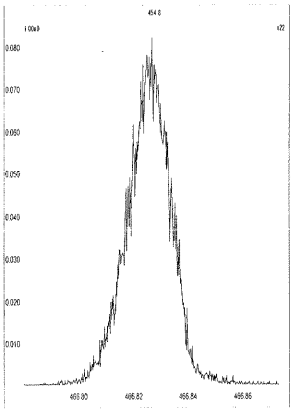
M 442.9728 R 12686



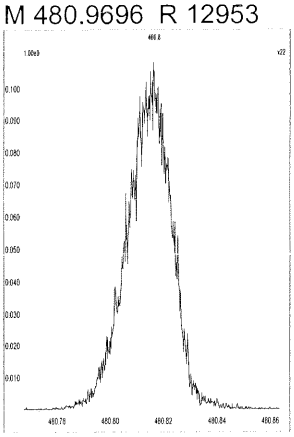
M 454.9728 R 12689



M 466.9728 R 12137



M 480.9696 R 12953

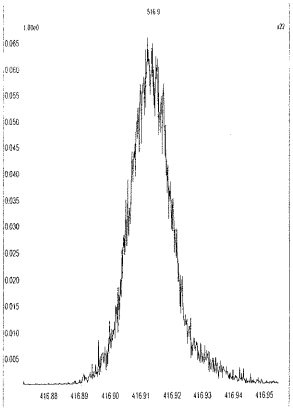


Experiment Calibration Report **MassLynx 4.1**

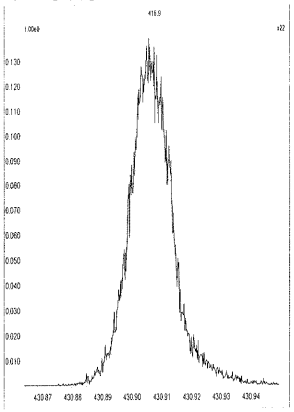
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 05:30:47 Central Standard Time

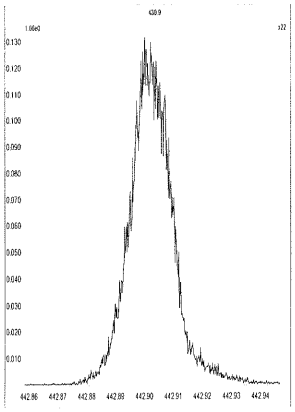
M 416.9760 R 11906



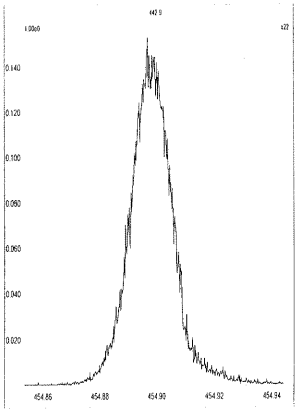
M 430.9728 R 11792



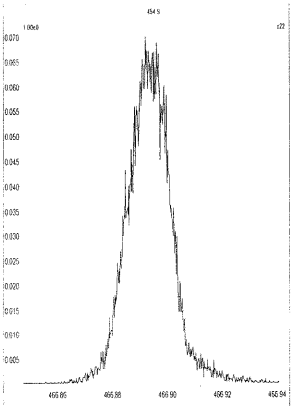
M 442.9728 R 12193



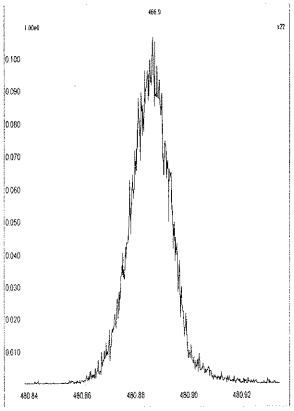
M 454.9728 R 12196



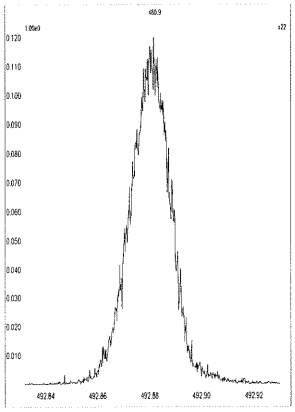
M 466.9728 R 13888



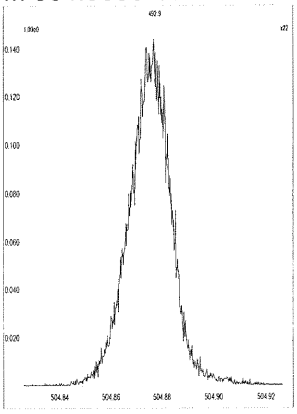
M 480.9696 R 13225



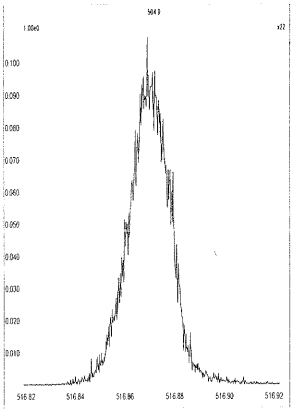
M 492.9696 R 13021



M 504.9696 R 12885



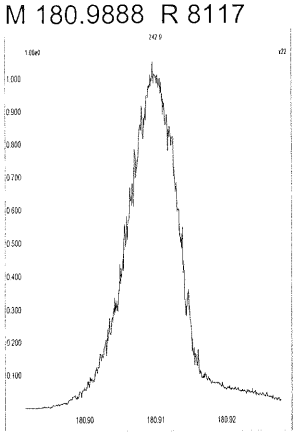
M 516.9697 R 13086



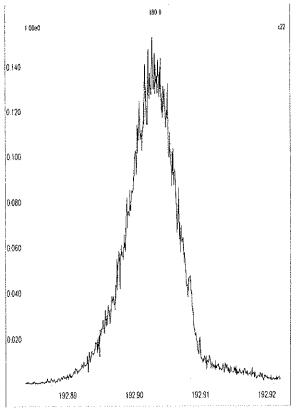
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 18:39:50 Central Standard Time

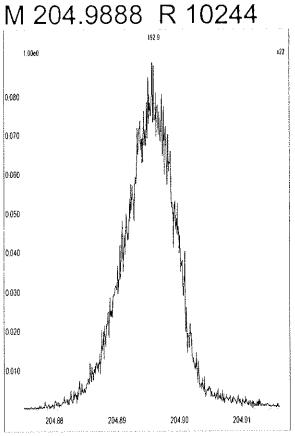
M 180.9888 R 8117



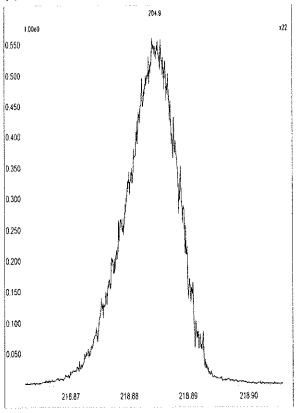
M 192.9888 R 10819



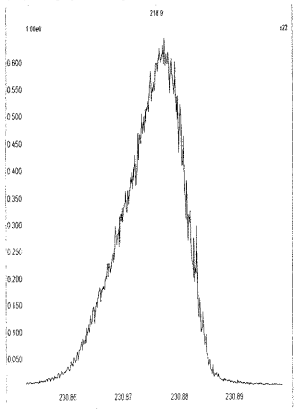
M 204.9888 R 10244



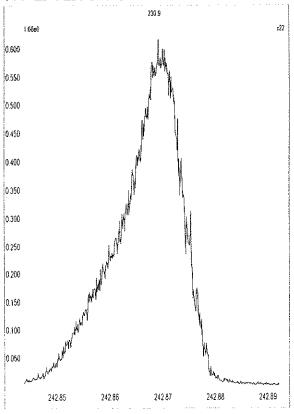
M 218.9856 R 10162



M 230.9856 R 8803



M 242.9856 R 8170

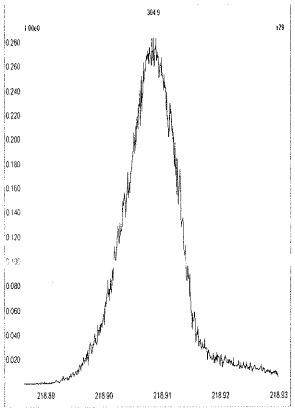


Experiment Calibration Report **MassLynx 4.1**

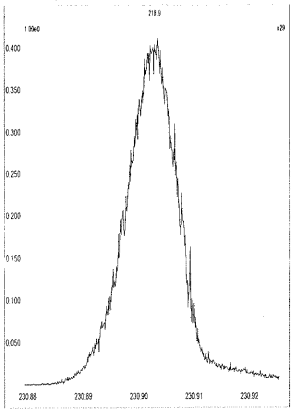
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 18:48:55 Central Standard Time

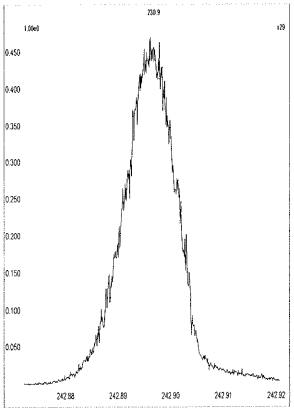
M 218.9856 R 8088



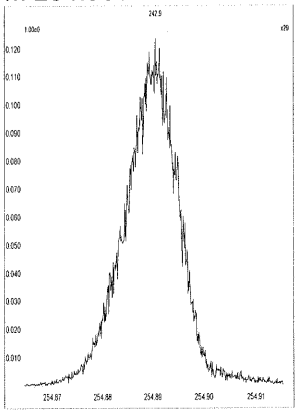
M 230.9856 R 9432



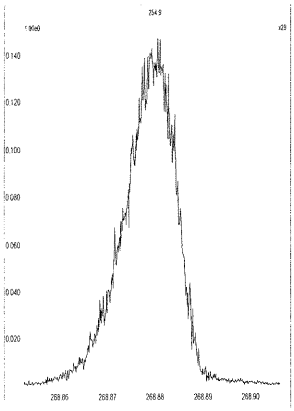
M 242.9856 R 10079



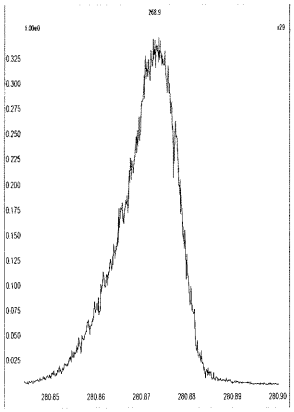
M 254.9856 R 10373



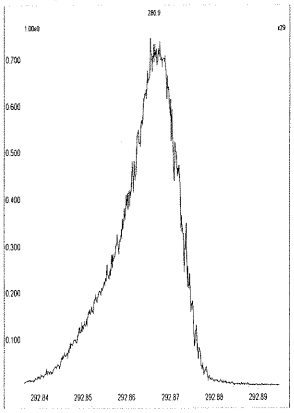
M 268.9824 R 10331



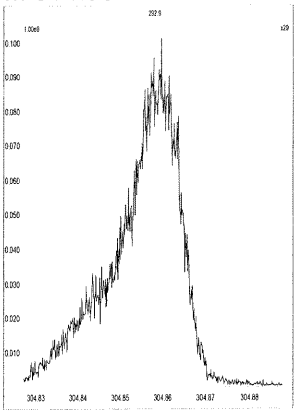
M 280.9824 R 9160



M 292.9824 R 8681



M 304.9824 R 7691

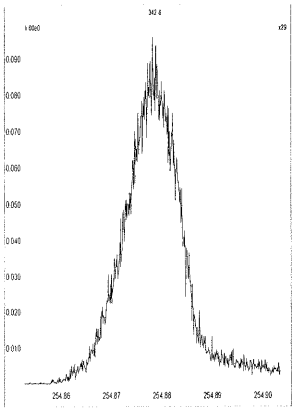


Experiment Calibration Report **MassLynx 4.1**

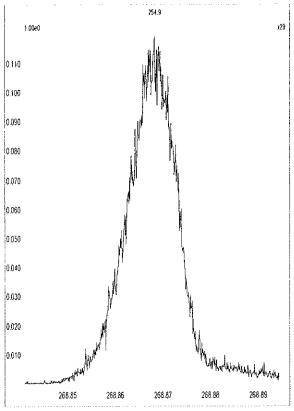
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 18:51:47 Central Standard Time

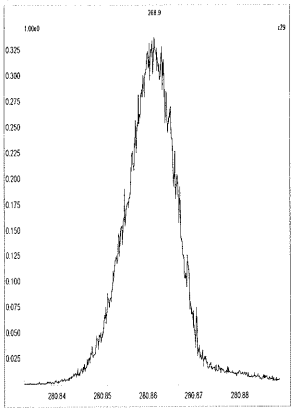
M 254.9856 R 8445



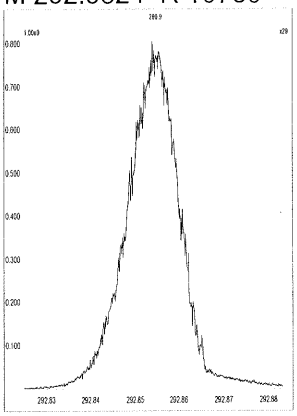
M 268.9824 R 10373



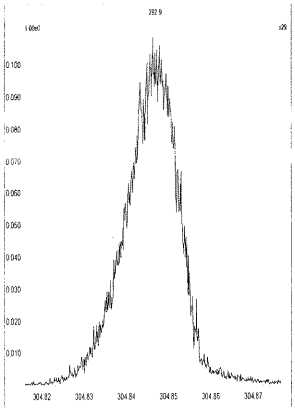
M 280.9824 R 10507



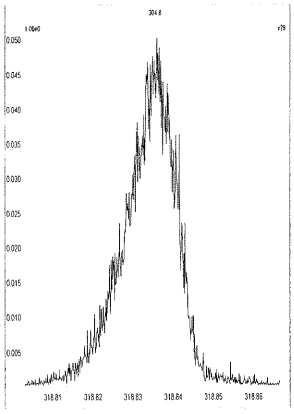
M 292.9824 R 10730



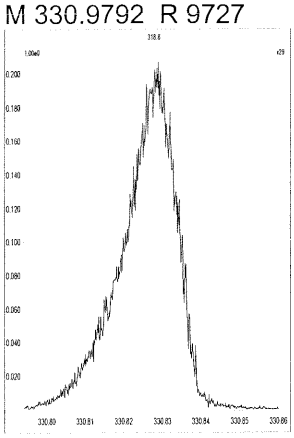
M 304.9824 R 10547



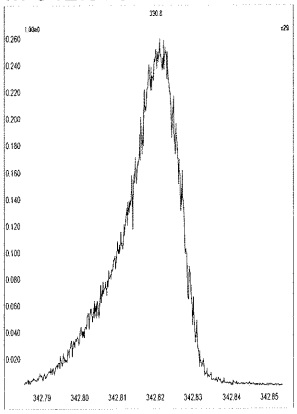
M 318.9792 R 10333



M 330.9792 R 9727



M 342.9792 R 8649

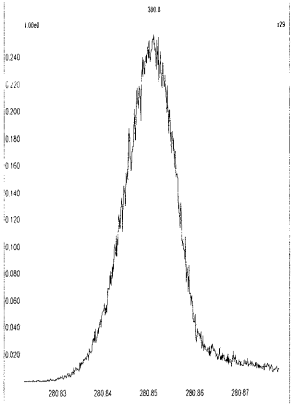


Experiment Calibration Report **MassLynx 4.1**

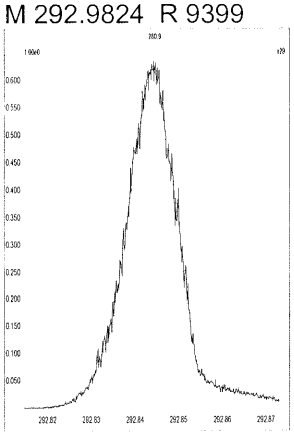
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 18:56:57 Central Standard Time

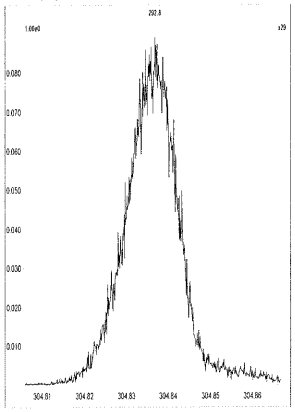
M 280.9824 R 8501



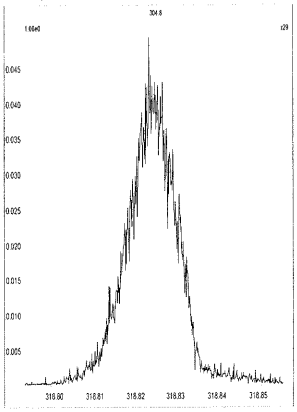
M 292.9824 R 9399



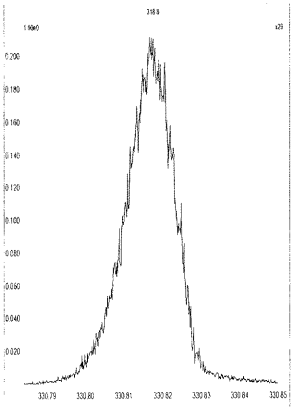
M 304.9824 R 10774



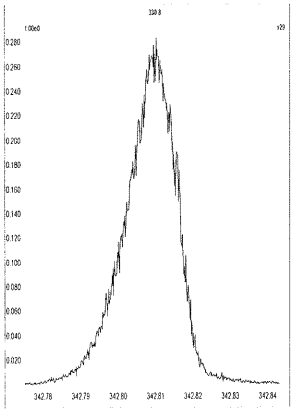
M 318.9792 R 10914



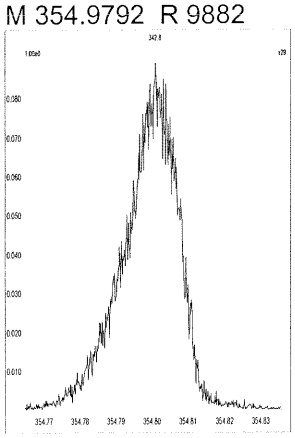
M 330.9792 R 10965



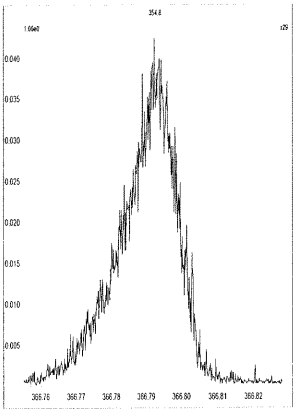
M 342.9792 R 10124



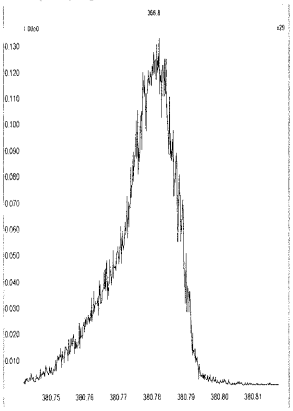
M 354.9792 R 9882



M 366.9792 R 9362



M 380.9760 R 8831

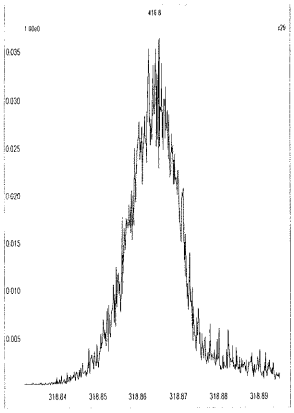


Experiment Calibration Report **MassLynx 4.1**

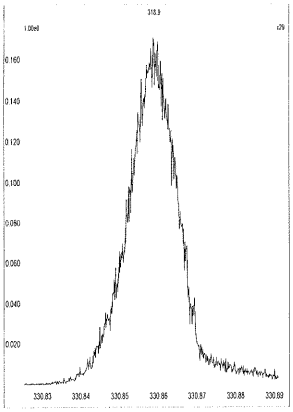
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 18:58:55 Central Standard Time

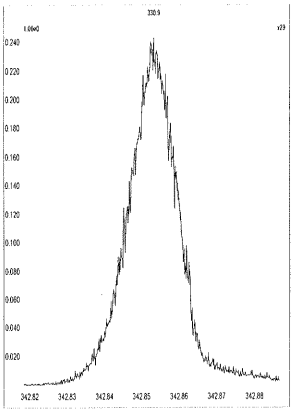
M 318.9792 R 8360



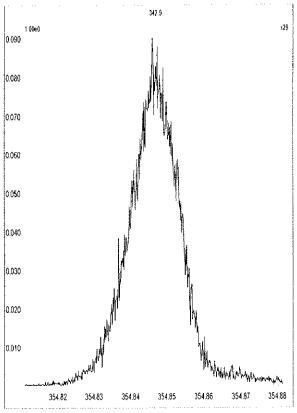
M 330.9792 R 10456



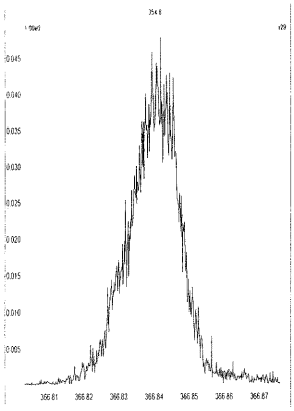
M 342.9792 R 10245



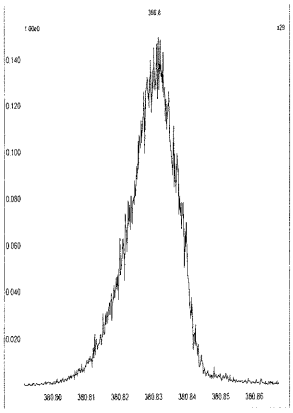
M 354.9792 R 11113



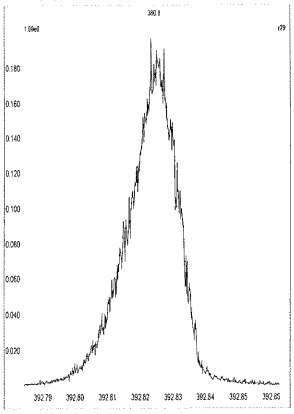
M 366.9792 R 10776



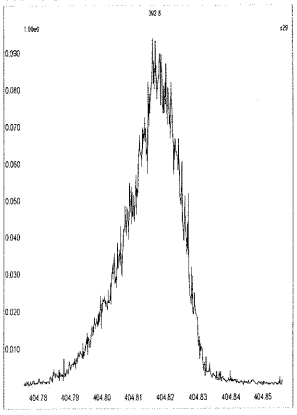
M 380.9760 R 10774



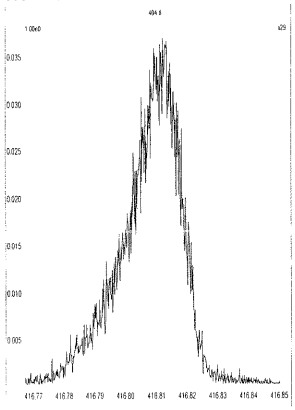
M 392.9760 R 10727



M 404.9760 R 9469



M 416.9760 R 9844

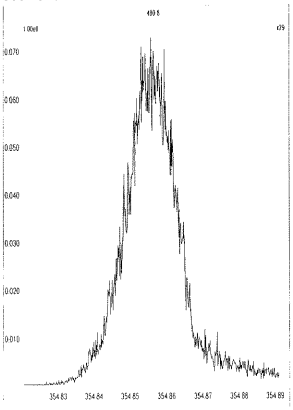


Experiment Calibration Report **MassLynx 4.1**

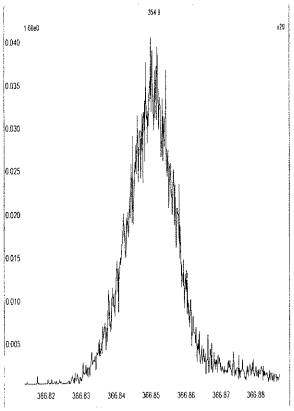
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Tuesday, November 08, 2011 19:00:49 Central Standard Time

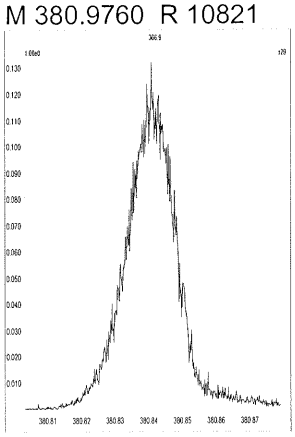
M 354.9792 R 10002



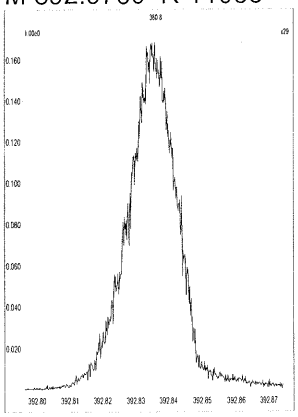
M 366.9792 R 11062



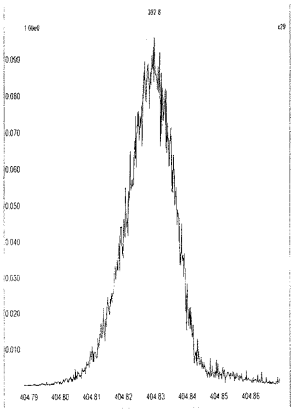
M 380.9760 R 10821



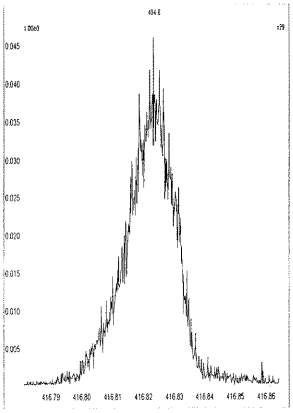
M 392.9760 R 11063



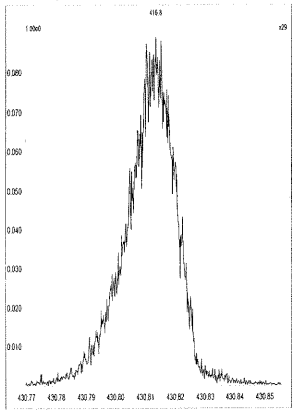
M 404.9760 R 10729



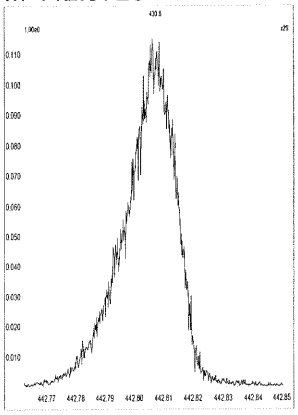
M 416.9760 R 10915



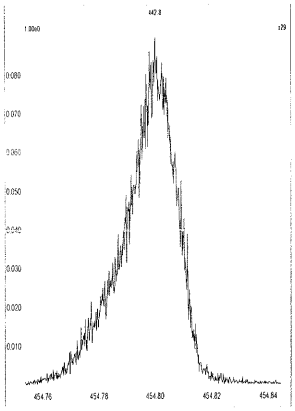
M 430.9728 R 10914



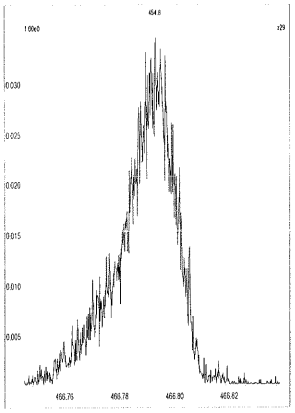
M 442.9728 R 10460



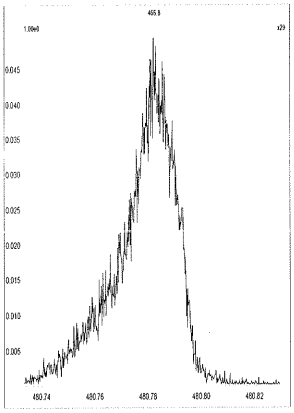
M 454.9728 R 10001



M 466.9728 R 8865



M 480.9696 R 8960



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

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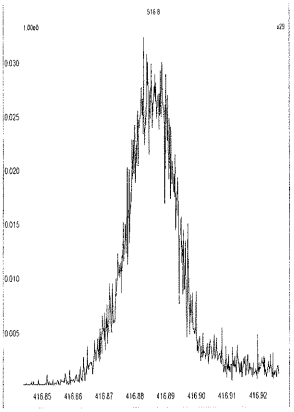
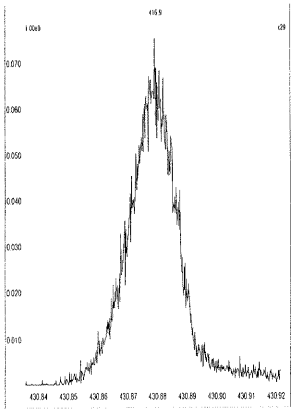
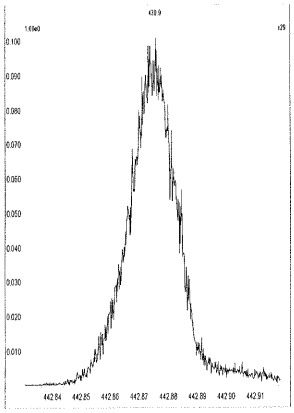
M 416.9760 R 9225



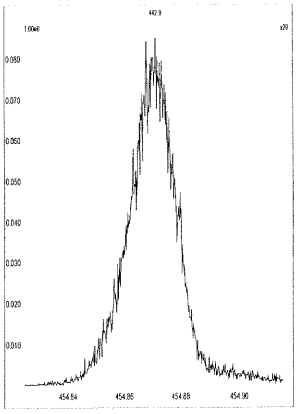
M 430.9728 R 10245



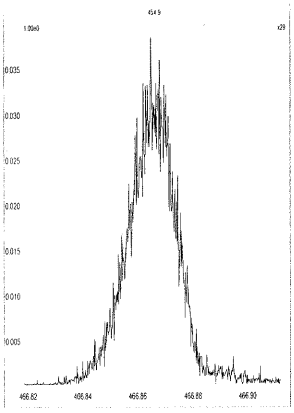
M 442.9728 R 10639



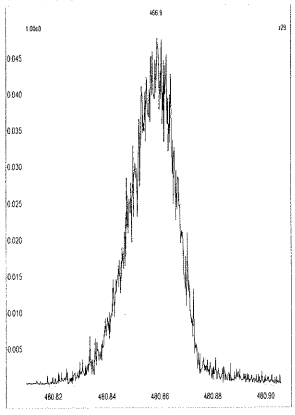
M 454.9728 R 10869



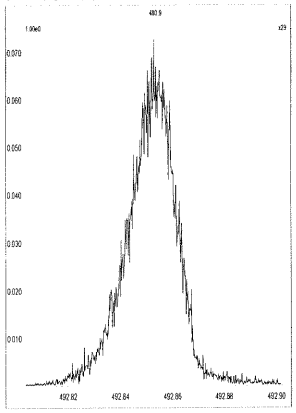
M 466.9728 R 11519



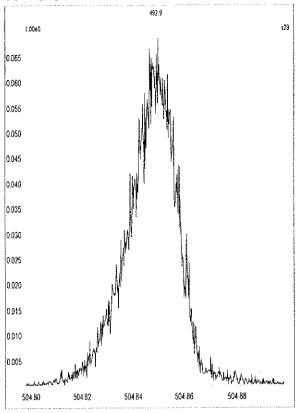
M 480.9696 R 12133



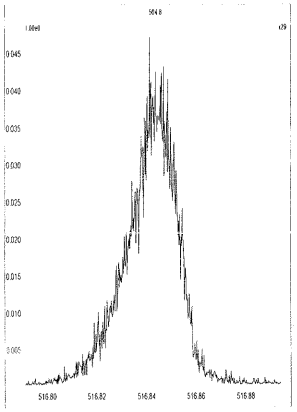
M 492.9696 R 11312



M 504.9696 R 11417



M 516.9697 R 10866



DCCS2091

METHOD 1668
DILUTED COMBINED 209 CONGENER SOLUTION (DCCS-209)

CLIENT ID:

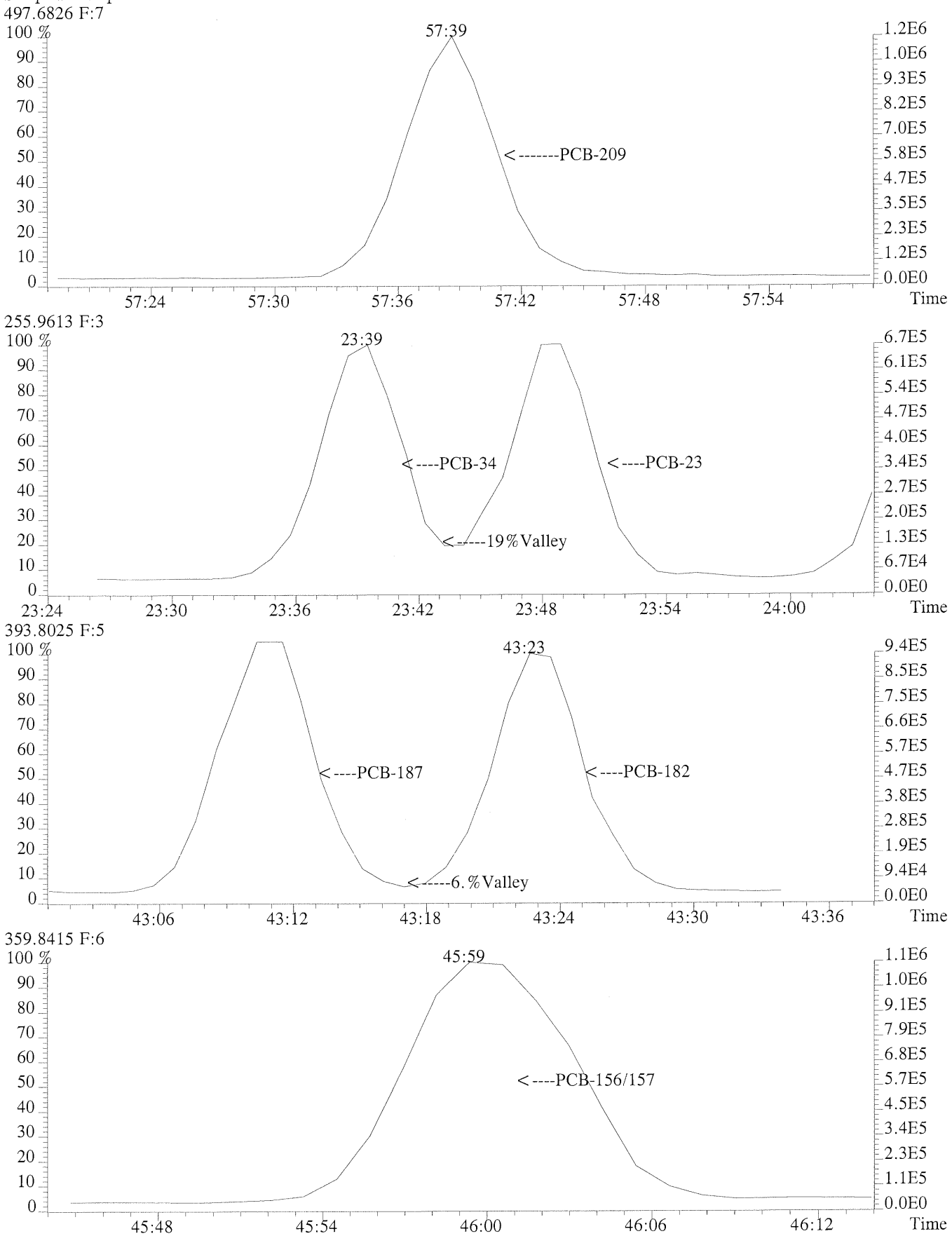
DCCS-209

Lab Name: COLUMBIA ANALYTICAL SERVICES
Lab Code: CAS Case No.: _____ SDG No.:
GC Column: SPB-Octyl ID: 0.25 (mm) Lab File ID: U142062
Date Analyzed: 8-NOV-2011
Time Analyzed: 05:31:30

Retention Time for PCB 209:	(>55 min)	57:39
% Valley between PCB 34 and PCB 23:	(<40%)	19
% Valley between PCB 187 and PCB 182:	(<40%)	6.
Seconds of coelution between PCB 156 and PCB 157:	(<2 sec)	0

Reference: Section 6.9.1.1 Method 1668

File:U142062 #1-310 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
DCCS-209

Run #8 Filename U142062 Samp: 1 Inj: 1 Acquired: 8-NOV-11 05:31:30
Processed: 11-NOV-11 16:55:19 Sample ID: B4-25-1

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	n	1.0712
2	1	PCB-2	15:25	5.098e+03	1.699e+03	3.00	y	n	0.9171
3	1	PCB-3	NotFnd	*	*	*	n	n	1.0363
4	1	PCB-4	NotFnd	*	*	*	n	n	1.1136
5	1	PCB-10	16:02	5.800e+03	3.793e+03	1.53	y	n	1.7428
6	2	PCB-9	17:55	3.402e+03	2.351e+03	1.45	y	n	1.0450
7	2	PCB-7	18:04	3.834e+03	2.529e+03	1.52	y	n	1.1559
8	2	PCB-6	18:19	3.686e+03	2.401e+03	1.54	y	n	1.1059
9	2	PCB-5	18:38	3.486e+03	2.310e+03	1.51	y	n	1.0529
10	2	PCB-8	18:46	3.811e+03	2.538e+03	1.50	y	n	1.1535
11	2	PCB-14	20:25	3.749e+03	2.575e+03	1.46	y	n	1.1489
12	2	PCB-11	21:17	3.401e+03	2.074e+03	1.64	y	n	0.9948
13	2	PCB-12/13	21:36	7.230e+03	4.623e+03	1.56	y	n	1.0767
14	2	PCB-15	NotFnd	*	*	*	n	n	0.9770
15	2	PCB-19	NotFnd	*	*	*	n	n	1.0009
16	2	PCB-18/30	20:56	6.583e+03	6.473e+03	1.02	y	n	1.2811
17	2	PCB-17	21:22	2.811e+03	2.873e+03	0.98	y	n	1.1153
18	2	PCB-27	21:36	3.777e+03	3.714e+03	1.02	y	n	1.4701
19	2	PCB-24	21:44	3.810e+03	3.895e+03	0.98	y	n	1.5122
20	2	PCB-16	21:51	2.525e+03	2.537e+03	1.00	y	n	0.9934
21	2	PCB-32	22:22	3.978e+03	4.032e+03	0.99	y	n	1.5720
22	3	PCB-34	23:39	3.115e+03	2.946e+03	1.06	y	n	1.1896
23	3	PCB-23	23:49	3.338e+03	3.288e+03	1.02	y	n	1.3003
24	3	PCB-26/29	24:08	6.625e+03	6.287e+03	1.05	y	n	1.2670
25	3	PCB-25	24:22	3.462e+03	3.332e+03	1.04	y	n	1.3332
26	3	PCB-31	24:41	3.282e+03	3.134e+03	1.05	y	n	1.2593
27	3	PCB-20/28	24:59	6.718e+03	6.551e+03	1.03	y	n	1.3021
28	3	PCB-21/33	25:10	6.551e+03	6.056e+03	1.08	y	n	1.2371
29	3	PCB-22	25:37	3.127e+03	3.103e+03	1.01	y	n	1.2227
30	3	PCB-36	27:12	3.180e+03	2.986e+03	1.06	y	n	1.2100
31	3	PCB-39	27:33	3.525e+03	3.359e+03	1.05	y	n	1.3509
32	3	PCB-38	28:08	2.936e+03	2.799e+03	1.05	y	n	1.1256
33	3	PCB-35	28:36	2.936e+03	2.582e+03	1.14	y	n	1.0829
34	3	PCB-37	NotFnd	*	*	*	n	n	1.0888
35	2	PCB-54	NotFnd	*	*	*	n	n	1.0020
36	3	PCB-50/53	24:24	1.043e+04	1.380e+04	0.76	y	n	1.2501
37	3	PCB-45/51	25:08	1.010e+04	1.345e+04	0.75	y	y	1.2152
38	3	PCB-46	25:23	4.301e+03	5.770e+03	0.75	y	n	1.0392
39	3	PCB-52	26:49	5.044e+03	6.749e+03	0.75	y	y	1.2168
40	3	PCB-43/73	26:58	1.237e+04	1.649e+04	0.75	y	y	1.4889
41	3	PCB-49/69	27:16	1.174e+04	1.543e+04	0.76	y	n	1.4020
42	3	PCB-48	27:36	5.451e+03	7.267e+03	0.75	y	n	1.3122
43	3	PCB-44/47/65	27:50	1.725e+04	2.283e+04	0.76	y	n	1.3784
44	3	PCB-59/62/75	28:09	2.016e+04	2.654e+04	0.76	y	n	1.6064
45	3	PCB-42	28:21	4.801e+03	6.224e+03	0.77	y	n	1.1376
46	3	PCB-40/41/71	28:50	1.516e+04	2.064e+04	0.73	y	y	1.2314
47	3	PCB-64	29:04	6.691e+03	9.067e+03	0.74	y	n	1.6259
48	3	PCB-72	29:54	6.521e+03	8.831e+03	0.74	y	n	1.5841
49	3	PCB-68	30:12	7.106e+03	9.776e+03	0.73	y	n	1.7420
50	3	PCB-57	30:37	6.086e+03	8.411e+03	0.72	y	n	1.4958

51	3	PCB-58	30:51	6.494e+03	9.103e+03	0.71	y	n	1.6094
52	3	PCB-67	31:02	6.639e+03	9.235e+03	0.72	y	n	1.6379
53	3	PCB-63	31:18	6.095e+03	8.819e+03	0.69	y	n	1.5388
54	3	PCB-61/70/74/76	31:38	2.599e+04	3.529e+04	0.74	y	y	1.5809
55	3	PCB-66	31:58	5.926e+03	8.381e+03	0.71	y	y	1.4762
56	3	PCB-55	32:07	6.255e+03	8.397e+03	0.74	y	y	1.5118
57	4	PCB-56	32:38	4.721e+03	6.203e+03	0.76	y	n	1.1272
58	4	PCB-60	32:52	4.829e+03	6.145e+03	0.79	y	n	1.1324
59	4	PCB-80	33:16	5.102e+03	6.647e+03	0.77	y	n	1.2123
60	4	PCB-79	34:48	4.895e+03	6.223e+03	0.79	y	n	1.1472
61	4	PCB-78	35:22	4.418e+03	5.627e+03	0.79	y	n	1.0365
62	4	PCB-81	NotFnd	*	*	*	n	n	1.0336
63	4	PCB-77	NotFnd	*	*	*	n	n	0.9953
64	3	PCB-104	NotFnd	*	*	*	n	n	1.0300
65	3	PCB-96	28:08	8.337e+03	5.413e+03	1.54	y	y	1.4690
66	3	PCB-103	30:05	7.019e+03	4.395e+03	1.60	y	n	1.2193
67	3	PCB-94	30:19	6.227e+03	4.062e+03	1.53	y	n	1.0992
68	3	PCB-95	30:45	6.714e+03	4.194e+03	1.60	y	n	1.1653
69	3	PCB-93/100	30:59	1.365e+04	8.356e+03	1.63	y	n	1.1754
70	3	PCB-98/102	31:07	1.306e+04	8.659e+03	1.51	y	n	1.1602
71	3	PCB-88/91	31:37	1.290e+04	8.246e+03	1.56	y	y	1.1295
72	3	PCB-84	31:51	5.606e+03	3.556e+03	1.58	y	n	0.9787
73	3	PCB-89	32:20	5.982e+03	3.739e+03	1.60	y	n	1.0385
74	4	PCB-121	32:45	8.801e+03	5.577e+03	1.58	y	n	1.5360
75	4	PCB-92	33:08	6.000e+03	3.805e+03	1.58	y	n	1.0474
76	4	PCB-90/101/113	33:42	2.057e+04	1.319e+04	1.56	y	n	1.2021
77	4	PCB-83/99	34:18	1.277e+04	7.819e+03	1.63	y	y	1.0999
78	4	PCB-112	34:25	7.971e+03	5.390e+03	1.48	y	y	1.4274
79	4	PCB-86/87/97/109/119/125	34:47	4.255e+04	2.714e+04	1.57	y	y	1.2408
80	4	PCB-117	35:27	8.352e+03	5.326e+03	1.57	y	n	1.4612
81	4	PCB-85/116	35:31	1.422e+04	9.159e+03	1.55	y	n	1.2488
82	4	PCB-110/115	35:43	1.685e+04	1.101e+04	1.53	y	y	1.4883
83	4	PCB-82	36:00	5.410e+03	3.526e+03	1.53	y	n	0.9547
84	4	PCB-111	36:25	8.625e+03	5.590e+03	1.54	y	n	1.5186
85	4	PCB-120	36:52	7.891e+03	5.186e+03	1.52	y	n	1.3970
86	5	PCB-108/124	38:01	1.084e+04	7.010e+03	1.55	y	n	0.9533
87	5	PCB-107	38:16	5.425e+03	3.296e+03	1.65	y	y	0.9317
88	5	PCB-123	NotFnd	*	*	*	n	n	1.0180
89	5	PCB-106	38:30	5.315e+03	3.361e+03	1.58	y	n	0.9269
90	5	PCB-118	NotFnd	*	*	*	n	n	0.9968
91	5	PCB-122	39:03	4.901e+03	3.166e+03	1.55	y	n	0.8619
92	5	PCB-114	NotFnd	*	*	*	n	n	0.9914
93	5	PCB-105	NotFnd	*	*	*	n	n	1.0109
94	5	PCB-127	41:22	4.854e+03	3.169e+03	1.53	y	n	0.8572
95	5	PCB-126	NotFnd	*	*	*	n	n	0.9601
96	4	PCB-155	NotFnd	*	*	*	n	n	0.9884
97	4	PCB-152	33:40	7.071e+03	5.886e+03	1.20	y	n	1.8871
98	4	PCB-150	33:51	7.426e+03	6.436e+03	1.15	y	n	2.0190
99	4	PCB-136	34:12	6.712e+03	5.750e+03	1.17	y	n	1.8151
100	4	PCB-145	34:30	7.263e+03	6.269e+03	1.16	y	n	1.9711
101	4	PCB-148	36:01	5.350e+03	4.458e+03	1.20	y	n	1.4285
102	4	PCB-135/151	36:40	1.066e+04	9.094e+03	1.17	y	n	1.4386
103	4	PCB-154	36:53	6.057e+03	5.180e+03	1.17	y	n	1.6367
104	4	PCB-144	37:11	5.338e+03	4.489e+03	1.19	y	n	1.4314
105	5	PCB-147/149	37:33	1.086e+04	9.099e+03	1.19	y	n	1.4533
106	5	PCB-134	37:45	4.173e+03	3.501e+03	1.19	y	n	1.1178
107	5	PCB-143	37:50	5.024e+03	4.124e+03	1.22	y	n	1.3324

108	5	PCB-139/140	38:09	1.083e+04	8.863e+03	1.22	y	n	1.4343
109	5	PCB-131	38:21	4.713e+03	3.716e+03	1.27	y	n	1.2278
110	5	PCB-142	38:31	4.384e+03	3.689e+03	1.19	y	n	1.1759
111	5	PCB-132	38:48	4.904e+03	3.905e+03	1.26	y	n	1.2831
112	5	PCB-133	39:19	4.538e+03	3.701e+03	1.23	y	n	1.2001
113	5	PCB-165	39:43	6.320e+03	5.127e+03	1.23	y	n	1.6672
114	5	PCB-146	39:58	5.454e+03	4.548e+03	1.20	y	n	1.4568
115	5	PCB-161	40:05	6.793e+03	5.544e+03	1.23	y	n	1.7969
116	5	PCB-153/168	40:36	1.286e+04	1.043e+04	1.23	y	n	1.6960
117	5	PCB-141	40:46	5.181e+03	4.202e+03	1.23	y	n	1.3666
118	5	PCB-130	41:10	4.079e+03	3.368e+03	1.21	y	n	1.0846
119	5	PCB-137	41:24	4.772e+03	3.905e+03	1.22	y	n	1.2638
120	5	PCB-164	41:31	6.240e+03	5.141e+03	1.21	y	n	1.6577
121	5	PCB-129/138/163	41:50	1.527e+04	1.261e+04	1.21	y	n	1.3536
122	5	PCB-160	41:59	6.034e+03	5.040e+03	1.20	y	n	1.6129
123	5	PCB-158	42:13	6.518e+03	5.389e+03	1.21	y	n	1.7342
124	5	PCB-128/166	43:04	1.036e+04	8.595e+03	1.21	y	n	1.3803
125	6	PCB-159	44:04	3.202e+03	2.737e+03	1.17	y	n	0.8650
126	6	PCB-162	44:22	3.768e+03	3.011e+03	1.25	y	n	0.9873
127	6	PCB-167	NotFnd	*	*	*	n	n	1.0081
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.0060
129	6	PCB-169	NotFnd	*	*	*	n	n	0.9915
130	5	PCB-188	NotFnd	*	*	*	n	n	0.9902
131	5	PCB-179	39:34	6.094e+03	6.150e+03	0.99	y	n	1.3565
132	5	PCB-184	40:05	7.090e+03	7.303e+03	0.97	y	n	1.5946
133	5	PCB-176	40:26	6.221e+03	6.050e+03	1.03	y	n	1.3595
134	5	PCB-186	40:53	6.399e+03	6.501e+03	0.98	y	n	1.4291
135	5	PCB-178	42:16	4.258e+03	4.408e+03	0.97	y	n	0.9601
136	5	PCB-175	42:54	4.517e+03	4.539e+03	1.00	y	n	1.0034
137	5	PCB-187	43:10	5.169e+03	5.170e+03	1.00	y	n	1.1454
138	5	PCB-182	43:23	4.653e+03	4.724e+03	0.99	y	n	1.0389
139	6	PCB-183	43:48	2.941e+03	3.094e+03	0.95	y	n	0.6687
140	6	PCB-185	43:53	2.925e+03	3.102e+03	0.94	y	n	0.6677
141	6	PCB-174	44:02	2.745e+03	2.965e+03	0.93	y	n	0.6326
142	6	PCB-177	44:28	2.652e+03	2.813e+03	0.94	y	n	0.6055
143	6	PCB-181	44:53	2.897e+03	3.116e+03	0.93	y	n	0.6662
144	6	PCB-171/173	45:06	5.055e+03	5.329e+03	0.95	y	n	0.5752
145	6	PCB-172	46:44	2.398e+03	2.538e+03	0.94	y	n	0.5468
146	6	PCB-192	47:01	3.266e+03	3.548e+03	0.92	y	n	0.7550
147	6	PCB-180/193	47:21	6.016e+03	6.416e+03	0.94	y	n	0.6886
148	6	PCB-191	47:44	3.300e+03	3.429e+03	0.96	y	n	0.7455
149	6	PCB-170	48:38	2.207e+03	2.436e+03	0.91	y	n	0.5144
150	6	PCB-190	49:10	3.060e+03	3.281e+03	0.93	y	y	0.7025
151	6	PCB-189	NotFnd	*	*	*	n	n	0.8632
152	6	PCB-202	NotFnd	*	*	*	n	n	0.8634
153	6	PCB-201	45:31	5.458e+03	6.477e+03	0.84	y	n	1.2064
154	6	PCB-204	46:11	5.309e+03	6.288e+03	0.84	y	n	1.1722
155	6	PCB-197	46:26	5.719e+03	6.732e+03	0.85	y	n	1.2586
156	6	PCB-200	46:32	5.524e+03	6.466e+03	0.85	y	n	1.2119
157	6	PCB-198/199	49:19	7.582e+03	9.002e+03	0.84	y	n	0.8382
158	6	PCB-196	49:59	3.648e+03	4.451e+03	0.82	y	n	0.8186
159	6	PCB-203	50:11	4.408e+03	5.236e+03	0.84	y	n	0.9748
160	6	PCB-195	51:30	3.350e+03	4.002e+03	0.84	y	n	0.7432
161	6	PCB-194	53:51	3.455e+03	4.035e+03	0.86	y	n	0.7576
162	6	PCB-205	NotFnd	*	*	*	n	n	0.8885
163	6	PCB-208	NotFnd	*	*	*	n	n	0.8804
164	6	PCB-207	52:12	3.700e+03	4.685e+03	0.79	y	n	1.0925

165	7	PCB-206	NotFnd	*	*	*	n	n	0.9310
166	7	PCB-209	NotFnd	*	*	*	n	n	0.8938
167	1	PCB-1L	13:20	2.215e+04	7.481e+03	2.96	y	n	1.2197
168	1	PCB-3L	15:36	2.224e+04	7.425e+03	2.99	y	n	1.1732
169	1	PCB-4L	15:51	1.247e+04	8.109e+03	1.54	y	n	0.8031
170	2	PCB-15L	21:53	1.408e+04	9.371e+03	1.50	y	n	0.9620
171	2	PCB-19L	19:02	9.589e+03	9.340e+03	1.03	y	n	0.6361
172	3	PCB-37L	29:00	1.093e+04	1.090e+04	1.00	y	n	1.1440
173	2	PCB-54L	22:10	9.204e+03	1.149e+04	0.80	y	n	1.1399
174	4	PCB-81L	35:47	8.064e+03	1.041e+04	0.77	y	n	0.9468
175	4	PCB-77L	36:21	8.269e+03	1.071e+04	0.77	y	n	0.9489
176	3	PCB-104L	27:45	1.523e+04	9.815e+03	1.55	y	n	1.3966
177	5	PCB-123L	38:21	9.982e+03	6.487e+03	1.54	y	n	1.0295
178	5	PCB-118L	38:41	1.029e+04	6.668e+03	1.54	y	n	1.0766
179	5	PCB-114L	39:13	9.938e+03	6.476e+03	1.53	y	n	1.0747
180	5	PCB-105L	39:51	9.418e+03	6.304e+03	1.49	y	n	1.0133
181	5	PCB-126L	42:57	8.345e+03	5.466e+03	1.53	y	n	0.8978
182	4	PCB-155L	33:27	1.438e+04	1.140e+04	1.26	y	n	1.6371
183	6	PCB-167L	44:49	6.323e+03	5.138e+03	1.23	y	n	0.8820
184	6	PCB-156/157L	45:58	1.195e+04	9.727e+03	1.23	y	n	0.8178
185	6	PCB-169L	49:13	5.362e+03	4.377e+03	1.23	y	n	0.7164
186	5	PCB-188L	39:11	1.228e+04	1.174e+04	1.05	y	n	2.3576
187	6	PCB-189L	51:44	6.160e+03	5.924e+03	1.04	y	n	1.3072
188	6	PCB-202L	44:35	7.482e+03	8.333e+03	0.90	y	n	1.8043
189	6	PCB-205L	54:18	5.002e+03	5.564e+03	0.90	y	n	1.3631
190	6	PCB-208L	51:15	5.176e+03	6.396e+03	0.81	y	n	1.3370
191	7	PCB-206L	56:02	3.916e+03	4.978e+03	0.79	y	n	0.9978
192	7	PCB-209L	57:38	5.690e+03	4.789e+03	1.19	y	n	1.5626
193	3	PCB-28L	NotFnd	*	*	*	n	n	1.3869
194	4	PCB-111L	NotFnd	*	*	*	n	n	1.2384
195	5	PCB-178L	NotFnd	*	*	*	n	n	0.9527
196	2	PCB-9L	NotFnd	*	*	*	n	n	-
197	3	PCB-52L	NotFnd	*	*	*	n	n	-
198	4	PCB-101L	NotFnd	*	*	*	n	n	-
199	5	PCB-138L	NotFnd	*	*	*	n	n	-
200	6	PCB-194L	NotFnd	*	*	*	n	n	-

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
DCCS-209

Run #8 Filename U142062#1 Samp: 1 Inj: 1 Acquired: 8-NOV-11 05:31:30

Processed: 11-NOV-11 16:55:19 LAB. ID: B4-25-1

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	1.70e+03	*	*	1.05e+03	*
2	PCB-2	1.12e+06	1.70e+03	6.6e+02	3.76e+05	1.05e+03	3.6e+02
3	PCB-3	*	1.70e+03	*	*	1.05e+03	*
4	PCB-4	*	1.54e+03	*	*	7.08e+03	*
5	PCB-10	1.29e+06	1.54e+03	8.4e+02	8.61e+05	7.08e+03	1.2e+02
6	PCB-9	7.63e+05	2.75e+03	2.8e+02	5.24e+05	1.02e+04	5.1e+01
7	PCB-7	8.45e+05	2.75e+03	3.1e+02	5.53e+05	1.02e+04	5.4e+01
8	PCB-6	8.02e+05	2.75e+03	2.9e+02	5.13e+05	1.02e+04	5.0e+01
9	PCB-5	7.52e+05	2.75e+03	2.7e+02	5.02e+05	1.02e+04	4.9e+01
10	PCB-8	7.79e+05	2.75e+03	2.8e+02	5.30e+05	1.02e+04	5.2e+01
11	PCB-14	7.63e+05	2.75e+03	2.8e+02	5.18e+05	1.02e+04	5.1e+01
12	PCB-11	6.31e+05	2.75e+03	2.3e+02	4.04e+05	1.02e+04	4.0e+01
13	PCB-12/13	1.13e+06	2.75e+03	4.1e+02	7.20e+05	1.02e+04	7.0e+01
14	PCB-15	*	2.75e+03	*	*	1.02e+04	*
15	PCB-19	*	1.21e+03	*	*	1.05e+03	*
16	PCB-18/30	1.26e+06	1.21e+03	1.0e+03	1.23e+06	1.05e+03	1.2e+03
17	PCB-17	5.92e+05	1.21e+03	4.9e+02	6.09e+05	1.05e+03	5.8e+02
18	PCB-27	7.95e+05	1.21e+03	6.6e+02	7.68e+05	1.05e+03	7.3e+02
19	PCB-24	8.14e+05	1.21e+03	6.7e+02	8.25e+05	1.05e+03	7.9e+02
20	PCB-16	5.33e+05	1.21e+03	4.4e+02	5.32e+05	1.05e+03	5.1e+02
21	PCB-32	8.33e+05	1.21e+03	6.9e+02	8.43e+05	1.05e+03	8.0e+02
22	PCB-34	5.74e+05	1.04e+04	5.5e+01	5.56e+05	2.56e+04	2.2e+01
23	PCB-23	5.86e+05	1.04e+04	5.7e+01	5.83e+05	2.56e+04	2.3e+01
24	PCB-26/29	1.07e+06	1.04e+04	1.0e+02	9.82e+05	2.56e+04	3.8e+01
25	PCB-25	5.96e+05	1.04e+04	5.8e+01	5.69e+05	2.56e+04	2.2e+01
26	PCB-31	5.95e+05	1.04e+04	5.7e+01	5.81e+05	2.56e+04	2.3e+01
27	PCB-20/28	1.06e+06	1.04e+04	1.0e+02	1.08e+06	2.56e+04	4.2e+01
28	PCB-21/33	7.02e+05	1.04e+04	6.8e+01	6.69e+05	2.56e+04	2.6e+01
29	PCB-22	5.62e+05	1.04e+04	5.4e+01	5.54e+05	2.56e+04	2.2e+01
30	PCB-36	5.37e+05	1.04e+04	5.2e+01	5.16e+05	2.56e+04	2.0e+01
31	PCB-39	6.42e+05	1.04e+04	6.2e+01	6.07e+05	2.56e+04	2.4e+01
32	PCB-38	5.22e+05	1.04e+04	5.0e+01	5.04e+05	2.56e+04	2.0e+01
33	PCB-35	4.98e+05	1.04e+04	4.8e+01	4.64e+05	2.56e+04	1.8e+01
34	PCB-37	*	1.04e+04	*	*	2.56e+04	*
35	PCB-54	*	8.20e+02	*	*	8.44e+02	*
36	PCB-50/53	1.71e+06	1.46e+03	1.2e+03	2.26e+06	1.11e+03	2.0e+03
37	PCB-45/51	1.07e+06	1.46e+03	7.3e+02	1.40e+06	1.11e+03	1.3e+03
38	PCB-46	7.78e+05	1.46e+03	5.3e+02	1.05e+06	1.11e+03	9.5e+02
39	PCB-52	9.46e+05	1.46e+03	6.5e+02	1.28e+06	1.11e+03	1.2e+03
40	PCB-43/73	1.40e+06	1.46e+03	9.6e+02	1.88e+06	1.11e+03	1.7e+03
41	PCB-49/69	1.56e+06	1.46e+03	1.1e+03	2.05e+06	1.11e+03	1.8e+03
42	PCB-48	1.00e+06	1.46e+03	6.9e+02	1.32e+06	1.11e+03	1.2e+03
43	PCB-44/47/65	2.57e+06	1.46e+03	1.8e+03	3.43e+06	1.11e+03	3.1e+03
44	PCB-59/62/75	2.72e+06	1.46e+03	1.9e+03	3.52e+06	1.11e+03	3.2e+03
45	PCB-42	8.80e+05	1.46e+03	6.0e+02	1.15e+06	1.11e+03	1.0e+03
46	PCB-40/41/71	1.90e+06	1.46e+03	1.3e+03	2.62e+06	1.11e+03	2.4e+03
47	PCB-64	1.25e+06	1.46e+03	8.6e+02	1.65e+06	1.11e+03	1.5e+03

48	PCB-72	1.20e+06	1.46e+03	8.3e+02	1.63e+06	1.11e+03	1.5e+03
49	PCB-68	1.28e+06	1.46e+03	8.8e+02	1.72e+06	1.11e+03	1.5e+03
50	PCB-57	1.16e+06	1.46e+03	7.9e+02	1.54e+06	1.11e+03	1.4e+03
51	PCB-58	1.20e+06	1.46e+03	8.2e+02	1.64e+06	1.11e+03	1.5e+03
52	PCB-67	1.22e+06	1.46e+03	8.4e+02	1.63e+06	1.11e+03	1.5e+03
53	PCB-63	1.15e+06	1.46e+03	7.9e+02	1.56e+06	1.11e+03	1.4e+03
54	PCB-61/70/74/76	2.50e+06	1.46e+03	1.7e+03	3.33e+06	1.11e+03	3.0e+03
55	PCB-66	1.07e+06	1.46e+03	7.4e+02	1.47e+06	1.11e+03	1.3e+03
56	PCB-55	1.14e+06	1.46e+03	7.8e+02	1.51e+06	1.11e+03	1.4e+03
57	PCB-56	8.66e+05	8.09e+03	1.1e+02	1.14e+06	8.61e+03	1.3e+02
58	PCB-60	8.64e+05	8.09e+03	1.1e+02	1.11e+06	8.61e+03	1.3e+02
59	PCB-80	9.59e+05	8.09e+03	1.2e+02	1.21e+06	8.61e+03	1.4e+02
60	PCB-79	8.37e+05	8.09e+03	1.0e+02	1.05e+06	8.61e+03	1.2e+02
61	PCB-78	7.68e+05	8.09e+03	9.5e+01	1.01e+06	8.61e+03	1.2e+02
62	PCB-81	*	8.09e+03	*	*	8.61e+03	*
63	PCB-77	*	8.09e+03	*	*	8.61e+03	*
64	PCB-104	*	1.10e+03	*	*	1.41e+03	*
65	PCB-96	1.50e+06	1.10e+03	1.4e+03	9.77e+05	1.41e+03	6.9e+02
66	PCB-103	1.32e+06	1.10e+03	1.2e+03	8.24e+05	1.41e+03	5.8e+02
67	PCB-94	1.16e+06	1.10e+03	1.1e+03	7.59e+05	1.41e+03	5.4e+02
68	PCB-95	1.24e+06	1.10e+03	1.1e+03	7.68e+05	1.41e+03	5.4e+02
69	PCB-93/100	2.32e+06	1.10e+03	2.1e+03	1.48e+06	1.41e+03	1.0e+03
70	PCB-98/102	1.43e+06	1.10e+03	1.3e+03	9.13e+05	1.41e+03	6.5e+02
71	PCB-88/91	1.32e+06	1.10e+03	1.2e+03	8.16e+05	1.41e+03	5.8e+02
72	PCB-84	1.04e+06	1.10e+03	9.4e+02	6.41e+05	1.41e+03	4.5e+02
73	PCB-89	1.10e+06	1.10e+03	1.0e+03	6.83e+05	1.41e+03	4.8e+02
74	PCB-121	1.62e+06	2.30e+03	7.1e+02	1.03e+06	5.28e+03	2.0e+02
75	PCB-92	1.11e+06	2.30e+03	4.8e+02	7.12e+05	5.28e+03	1.4e+02
76	PCB-90/101/113	2.76e+06	2.30e+03	1.2e+03	1.74e+06	5.28e+03	3.3e+02
77	PCB-83/99	1.34e+06	2.30e+03	5.8e+02	8.53e+05	5.28e+03	1.6e+02
78	PCB-112	1.52e+06	2.30e+03	6.6e+02	9.68e+05	5.28e+03	1.8e+02
79	CB-86/87/97/109/119/125	4.32e+06	2.30e+03	1.9e+03	2.76e+06	5.28e+03	5.2e+02
80	PCB-117	1.69e+06	2.30e+03	7.4e+02	1.06e+06	5.28e+03	2.0e+02
81	PCB-85/116	2.54e+06	2.30e+03	1.1e+03	1.69e+06	5.28e+03	3.2e+02
82	PCB-110/115	1.68e+06	2.30e+03	7.3e+02	1.09e+06	5.28e+03	2.1e+02
83	PCB-82	9.48e+05	2.30e+03	4.1e+02	6.21e+05	5.28e+03	1.2e+02
84	PCB-111	1.61e+06	2.30e+03	7.0e+02	1.02e+06	5.28e+03	1.9e+02
85	PCB-120	1.45e+06	2.30e+03	6.3e+02	9.26e+05	5.28e+03	1.8e+02
86	PCB-108/124	1.96e+06	2.60e+04	7.5e+01	1.29e+06	1.89e+04	6.8e+01
87	PCB-107	1.02e+06	2.60e+04	3.9e+01	6.27e+05	1.89e+04	3.3e+01
88	PCB-123	*	2.60e+04	*	*	1.89e+04	*
89	PCB-106	9.49e+05	2.60e+04	3.6e+01	6.16e+05	1.89e+04	3.3e+01
90	PCB-118	*	2.60e+04	*	*	1.89e+04	*
91	PCB-122	9.05e+05	2.60e+04	3.5e+01	5.80e+05	1.89e+04	3.1e+01
92	PCB-114	*	2.60e+04	*	*	1.89e+04	*
93	PCB-105	*	2.60e+04	*	*	1.89e+04	*
94	PCB-127	8.78e+05	2.60e+04	3.4e+01	5.67e+05	1.89e+04	3.0e+01
95	PCB-126	*	2.60e+04	*	*	1.89e+04	*
96	PCB-155	*	2.07e+03	*	*	1.66e+03	*
97	PCB-152	1.28e+06	2.07e+03	6.2e+02	1.09e+06	1.66e+03	6.6e+02
98	PCB-150	1.38e+06	2.07e+03	6.7e+02	1.17e+06	1.66e+03	7.0e+02
99	PCB-136	1.22e+06	2.07e+03	5.9e+02	1.04e+06	1.66e+03	6.3e+02
100	PCB-145	1.36e+06	2.07e+03	6.6e+02	1.18e+06	1.66e+03	7.1e+02
101	PCB-148	9.74e+05	2.07e+03	4.7e+02	8.12e+05	1.66e+03	4.9e+02
102	PCB-135/151	1.18e+06	2.07e+03	5.7e+02	9.96e+05	1.66e+03	6.0e+02
103	PCB-154	1.10e+06	2.07e+03	5.3e+02	9.40e+05	1.66e+03	5.6e+02
104	PCB-144	9.43e+05	2.07e+03	4.5e+02	8.20e+05	1.66e+03	4.9e+02

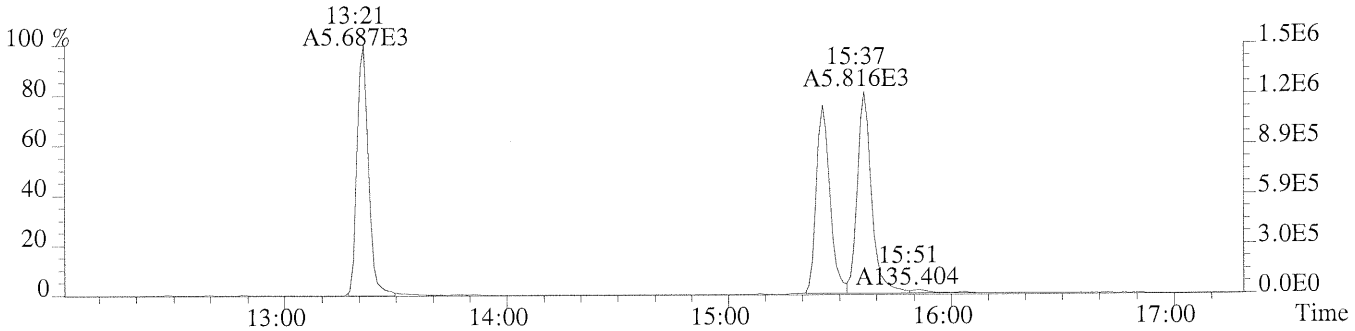
Run #8 Filename U142062#1 Samp: 1 Acquired: 8-NOV-11 05:31:30

PCB-147/149	1.97e+06	6.60e+03	3.0e+02	1.65e+06	2.88e+03	5.8e+02
PCB-134	7.89e+05	6.60e+03	1.2e+02	6.71e+05	2.88e+03	2.3e+02
PCB-143	8.76e+05	6.60e+03	1.3e+02	7.26e+05	2.88e+03	2.5e+02
PCB-139/140	1.85e+06	6.60e+03	2.8e+02	1.52e+06	2.88e+03	5.3e+02
PCB-131	8.42e+05	6.60e+03	1.3e+02	6.47e+05	2.88e+03	2.2e+02
PCB-142	7.86e+05	6.60e+03	1.2e+02	6.61e+05	2.88e+03	2.3e+02
PCB-132	8.83e+05	6.60e+03	1.3e+02	7.03e+05	2.88e+03	2.4e+02
PCB-133	8.25e+05	6.60e+03	1.3e+02	6.67e+05	2.88e+03	2.3e+02
PCB-165	1.13e+06	6.60e+03	1.7e+02	9.16e+05	2.88e+03	3.2e+02
PCB-146	9.55e+05	6.60e+03	1.4e+02	8.15e+05	2.88e+03	2.8e+02
PCB-161	1.21e+06	6.60e+03	1.8e+02	1.01e+06	2.88e+03	3.5e+02
PCB-153/168	1.79e+06	6.60e+03	2.7e+02	1.47e+06	2.88e+03	5.1e+02
PCB-141	9.18e+05	6.60e+03	1.4e+02	7.36e+05	2.88e+03	2.6e+02
PCB-130	7.12e+05	6.60e+03	1.1e+02	6.00e+05	2.88e+03	2.1e+02
PCB-137	8.95e+05	6.60e+03	1.4e+02	7.11e+05	2.88e+03	2.5e+02
PCB-164	1.09e+06	6.60e+03	1.7e+02	8.82e+05	2.88e+03	3.1e+02
PCB-129/138/163	2.15e+06	6.60e+03	3.3e+02	1.83e+06	2.88e+03	6.4e+02
PCB-160	1.11e+06	6.60e+03	1.7e+02	9.22e+05	2.88e+03	3.2e+02
PCB-158	1.11e+06	6.60e+03	1.7e+02	9.14e+05	2.88e+03	3.2e+02
PCB-128/166	1.63e+06	6.60e+03	2.5e+02	1.34e+06	2.88e+03	4.6e+02
PCB-159	6.62e+05	1.78e+04	3.7e+01	5.79e+05	1.89e+03	3.1e+02
PCB-162	7.64e+05	1.78e+04	4.3e+01	6.16e+05	1.89e+03	3.3e+02
PCB-167	*	1.78e+04	*	*	1.89e+03	*
PCB-156/157	*	1.78e+04	*	*	1.89e+03	*
PCB-169	*	1.78e+04	*	*	1.89e+03	*
PCB-188	*	1.56e+03	*	*	1.04e+03	*
PCB-179	1.10e+06	1.56e+03	7.1e+02	1.10e+06	1.04e+03	1.1e+03
PCB-184	1.26e+06	1.56e+03	8.1e+02	1.31e+06	1.04e+03	1.3e+03
PCB-176	1.11e+06	1.56e+03	7.1e+02	1.09e+06	1.04e+03	1.1e+03
PCB-186	1.11e+06	1.56e+03	7.2e+02	1.12e+06	1.04e+03	1.1e+03
PCB-178	7.63e+05	1.56e+03	4.9e+02	7.89e+05	1.04e+03	7.6e+02
PCB-175	8.02e+05	1.56e+03	5.2e+02	8.09e+05	1.04e+03	7.8e+02
PCB-187	9.00e+05	1.56e+03	5.8e+02	8.91e+05	1.04e+03	8.6e+02
PCB-182	8.36e+05	1.56e+03	5.4e+02	8.45e+05	1.04e+03	8.2e+02
PCB-183	6.71e+05	2.30e+03	2.9e+02	7.15e+05	1.23e+03	5.8e+02
PCB-185	6.72e+05	2.30e+03	2.9e+02	7.00e+05	1.23e+03	5.7e+02
PCB-174	5.81e+05	2.30e+03	2.5e+02	6.17e+05	1.23e+03	5.0e+02
PCB-177	5.83e+05	2.30e+03	2.5e+02	6.01e+05	1.23e+03	4.9e+02
PCB-181	6.14e+05	2.30e+03	2.7e+02	6.64e+05	1.23e+03	5.4e+02
PCB-171/173	9.80e+05	2.30e+03	4.3e+02	1.03e+06	1.23e+03	8.4e+02
PCB-172	5.15e+05	2.30e+03	2.2e+02	5.31e+05	1.23e+03	4.3e+02
PCB-192	7.28e+05	2.30e+03	3.2e+02	7.66e+05	1.23e+03	6.2e+02
PCB-180/193	9.30e+05	2.30e+03	4.0e+02	9.85e+05	1.23e+03	8.0e+02
PCB-191	6.91e+05	2.30e+03	3.0e+02	7.09e+05	1.23e+03	5.8e+02
PCB-170	4.58e+05	2.30e+03	2.0e+02	5.25e+05	1.23e+03	4.3e+02
PCB-190	6.38e+05	2.30e+03	2.8e+02	6.73e+05	1.23e+03	5.5e+02
PCB-189	*	2.30e+03	*	*	1.23e+03	*
PCB-202	*	9.00e+02	*	*	9.20e+02	*
PCB-201	1.17e+06	9.00e+02	1.3e+03	1.40e+06	9.20e+02	1.5e+03
PCB-204	1.13e+06	9.00e+02	1.3e+03	1.34e+06	9.20e+02	1.5e+03
PCB-197	1.25e+06	9.00e+02	1.4e+03	1.47e+06	9.20e+02	1.6e+03
PCB-200	1.13e+06	9.00e+02	1.3e+03	1.34e+06	9.20e+02	1.5e+03
PCB-198/199	1.20e+06	9.00e+02	1.3e+03	1.39e+06	9.20e+02	1.5e+03
PCB-196	7.68e+05	9.00e+02	8.5e+02	9.36e+05	9.20e+02	1.0e+03
PCB-203	9.22e+05	9.00e+02	1.0e+03	1.10e+06	9.20e+02	1.2e+03
PCB-195	6.91e+05	9.00e+02	7.7e+02	8.20e+05	9.20e+02	8.9e+02
PCB-194	7.21e+05	9.00e+02	8.0e+02	8.40e+05	9.20e+02	9.1e+02
PCB-205	*	9.00e+02	*	*	9.20e+02	*

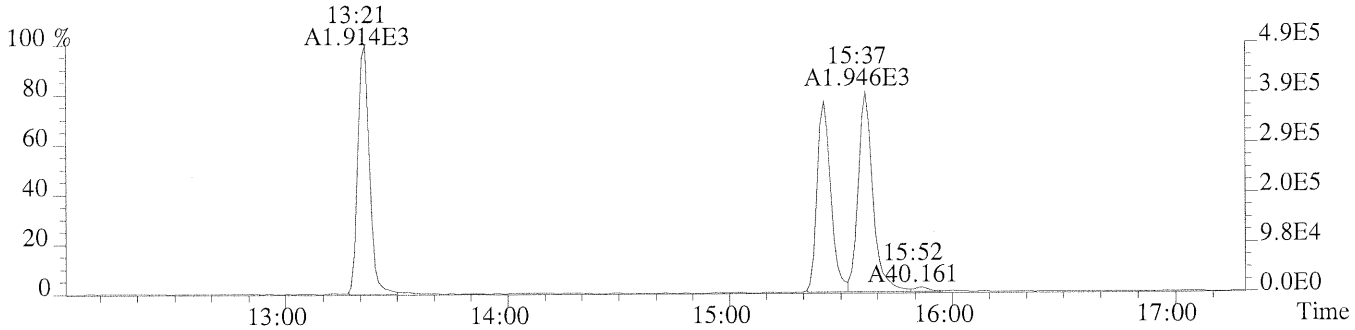
163	PCB-208	*	6.60e+02	*	*	8.40e+02	*
164	PCB-207	7.67e+05	6.60e+02	1.2e+03	9.78e+05	8.40e+02	1.2e+03
165	PCB-206	*	9.92e+02	*	*	1.17e+03	*
166	PCB-209	*	1.02e+03	*	*	1.44e+03	*
167	PCB-1L	5.84e+06	1.51e+03	3.9e+03	1.94e+06	5.61e+03	3.5e+02
168	PCB-3L	4.64e+06	1.51e+03	3.1e+03	1.54e+06	5.61e+03	2.8e+02
169	PCB-4L	2.86e+06	1.20e+03	2.4e+03	1.82e+06	1.12e+03	1.6e+03
170	PCB-15L	2.61e+06	2.18e+03	1.2e+03	1.75e+06	7.72e+02	2.3e+03
171	PCB-19L	2.20e+06	8.74e+03	2.5e+02	2.15e+06	6.68e+03	3.2e+02
172	PCB-37L	1.86e+06	9.87e+03	1.9e+02	1.90e+06	9.60e+03	2.0e+02
173	PCB-54L	1.98e+06	3.09e+03	6.4e+02	2.46e+06	1.33e+03	1.8e+03
174	PCB-81L	1.39e+06	2.02e+03	6.8e+02	1.81e+06	1.22e+03	1.5e+03
175	PCB-77L	1.45e+06	2.02e+03	7.1e+02	1.87e+06	1.22e+03	1.5e+03
176	PCB-104L	2.83e+06	1.23e+03	2.3e+03	1.84e+06	1.41e+03	1.3e+03
177	PCB-123L	1.80e+06	3.16e+03	5.7e+02	1.16e+06	3.90e+03	3.0e+02
178	PCB-118L	1.86e+06	3.16e+03	5.9e+02	1.20e+06	3.90e+03	3.1e+02
179	PCB-114L	1.83e+06	3.16e+03	5.8e+02	1.16e+06	3.90e+03	3.0e+02
180	PCB-105L	1.64e+06	3.16e+03	5.2e+02	1.11e+06	3.90e+03	2.8e+02
181	PCB-126L	1.45e+06	3.16e+03	4.6e+02	9.46e+05	3.90e+03	2.4e+02
182	PCB-155L	2.70e+06	1.29e+03	2.1e+03	2.14e+06	1.80e+03	1.2e+03
183	PCB-167L	1.37e+06	1.52e+03	9.0e+02	1.13e+06	8.72e+02	1.3e+03
184	PCB-156/157L	2.00e+06	1.52e+03	1.3e+03	1.61e+06	8.72e+02	1.8e+03
185	PCB-169L	1.11e+06	1.52e+03	7.3e+02	9.13e+05	8.72e+02	1.0e+03
186	PCB-188L	2.19e+06	1.39e+03	1.6e+03	2.09e+06	1.05e+03	2.0e+03
187	PCB-189L	1.30e+06	1.40e+03	9.3e+02	1.26e+06	1.54e+03	8.2e+02
188	PCB-202L	1.59e+06	1.48e+03	1.1e+03	1.76e+06	1.06e+03	1.7e+03
189	PCB-205L	1.07e+06	1.48e+03	7.2e+02	1.17e+06	1.06e+03	1.1e+03
190	PCB-208L	1.10e+06	7.36e+02	1.5e+03	1.36e+06	8.64e+02	1.6e+03
191	PCB-206L	7.33e+05	9.28e+02	7.9e+02	9.24e+05	1.28e+03	7.2e+02
192	PCB-209L	9.94e+05	7.48e+02	1.3e+03	8.55e+05	8.60e+02	9.9e+02
193	PCB-28L	*	9.87e+03	*	*	9.60e+03	*
194	PCB-111L	*	1.36e+03	*	*	1.34e+03	*
195	PCB-178L	*	1.39e+03	*	*	1.05e+03	*
196	PCB-9L	*	2.18e+03	*	*	7.72e+02	*
197	PCB-52L	*	2.29e+03	*	*	8.68e+02	*
198	PCB-101L	*	1.36e+03	*	*	1.34e+03	*
199	PCB-138L	*	1.82e+03	*	*	1.66e+03	*
200	PCB-194L	*	1.48e+03	*	*	1.06e+03	*

File:U142062 #1-341 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

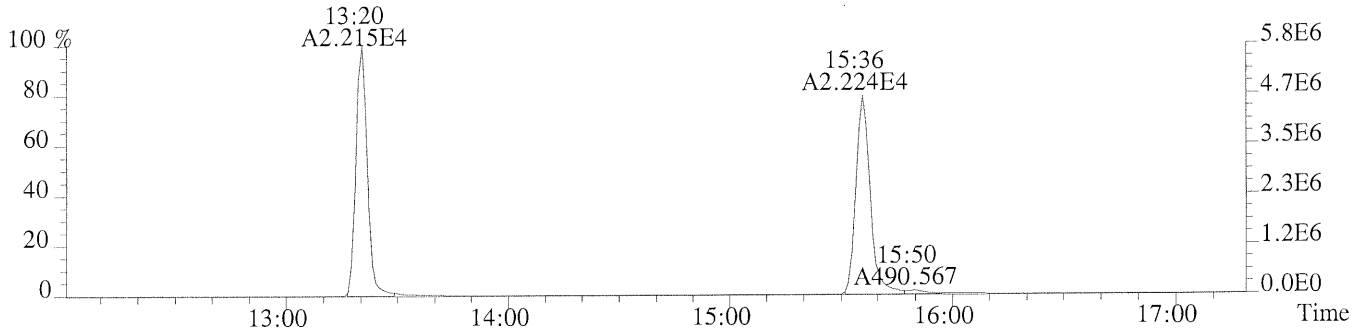
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1704.0,1.00%,F,T)



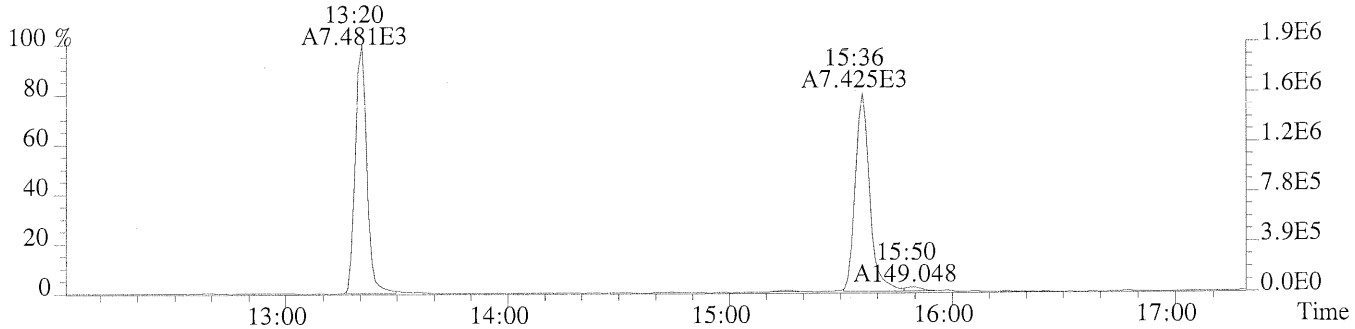
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1048.0,1.00%,F,T)



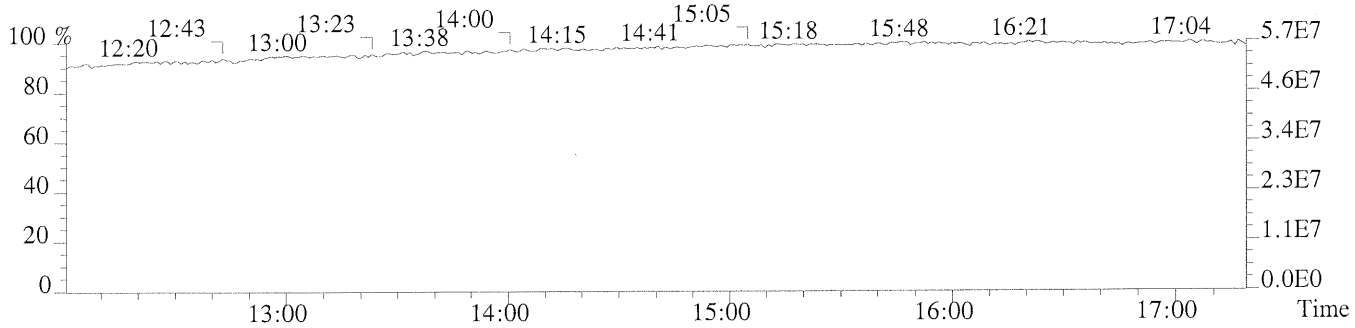
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1508.0,1.00%,F,T)



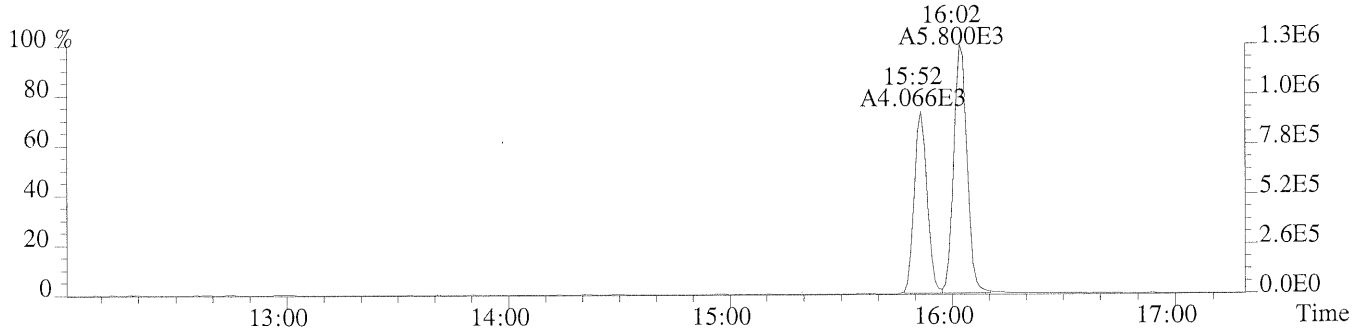
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5612.0,1.00%,F,T)



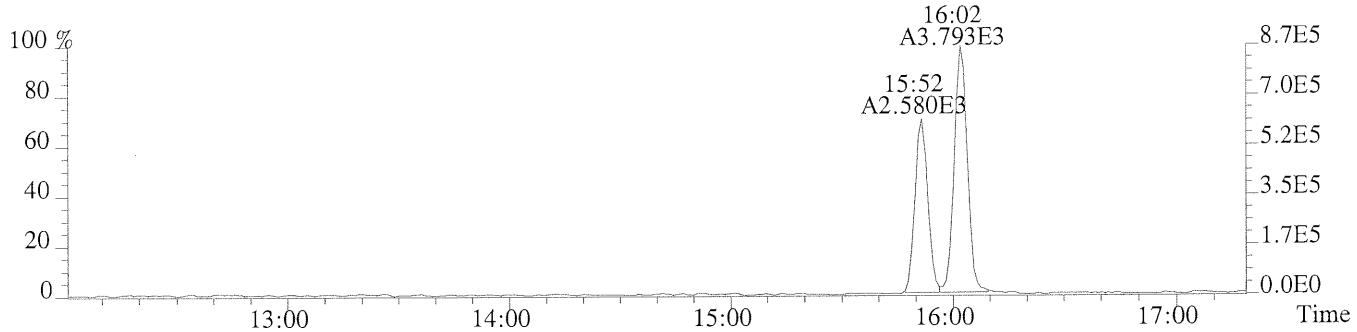
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



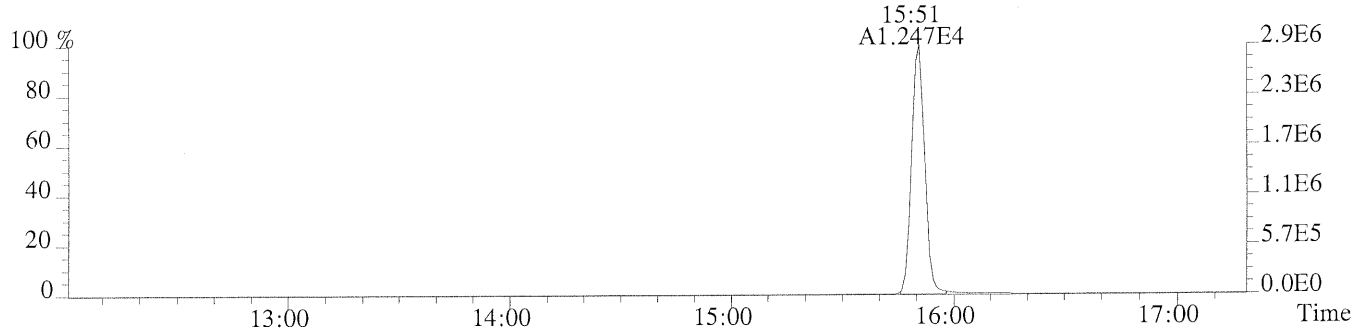
File:U142062 #1-341 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1540.0,1.00%,F,T)



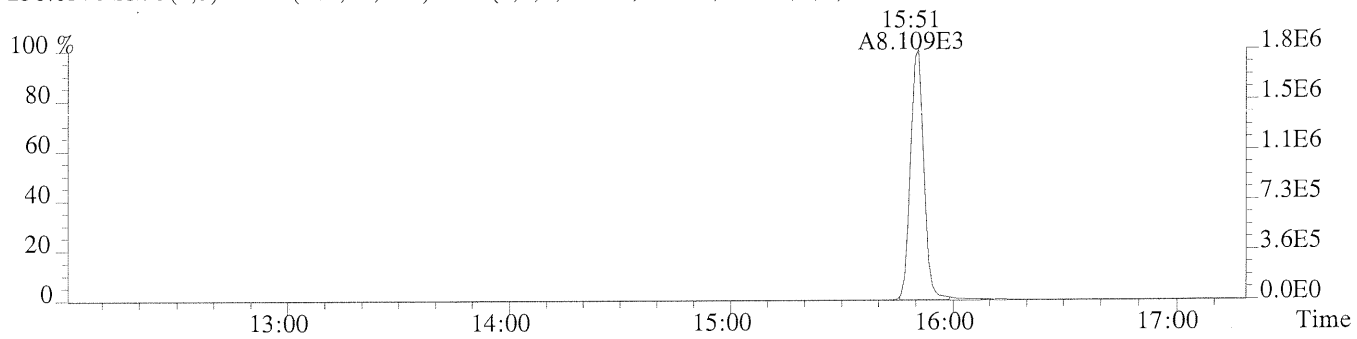
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7076.0,1.00%,F,T)



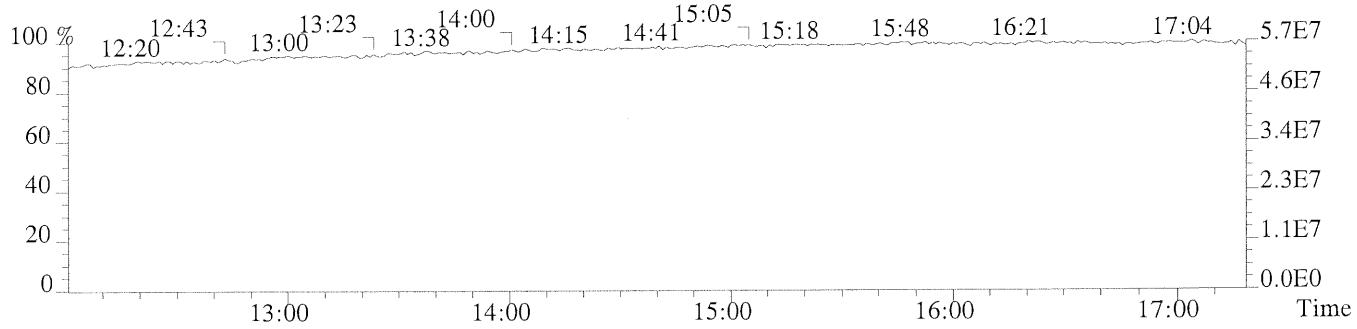
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)



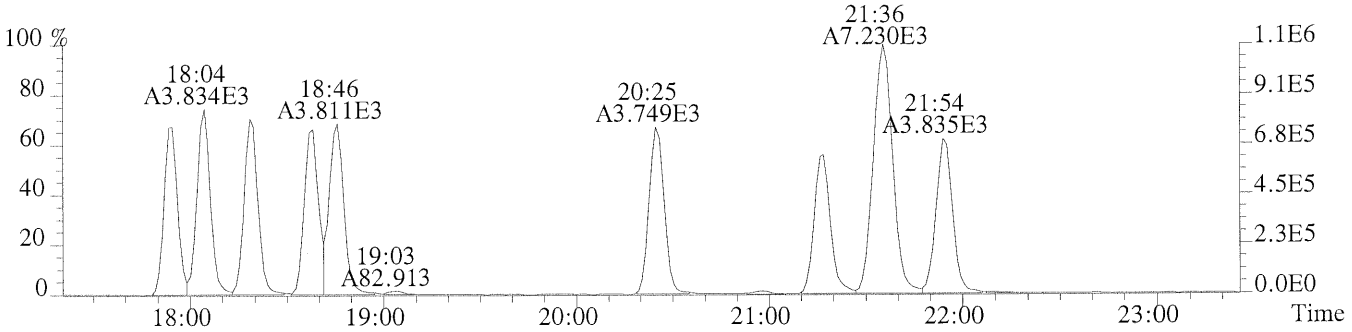
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1120.0,1.00%,F,T)



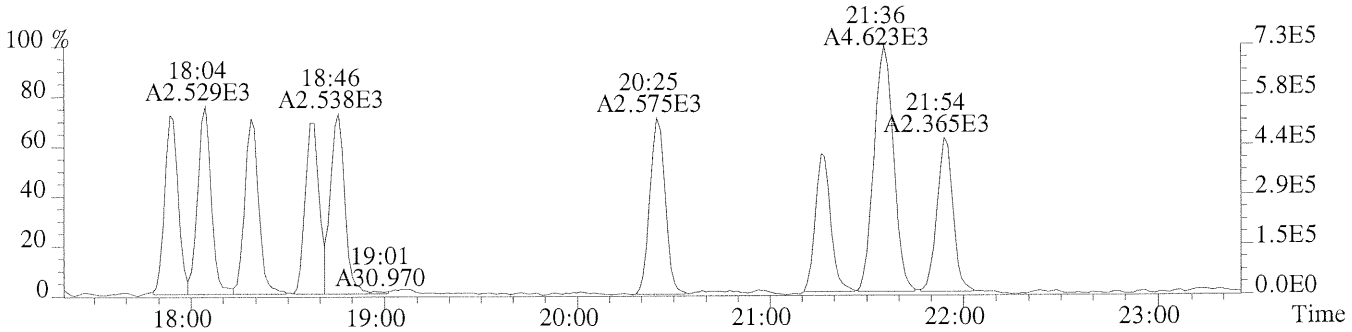
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



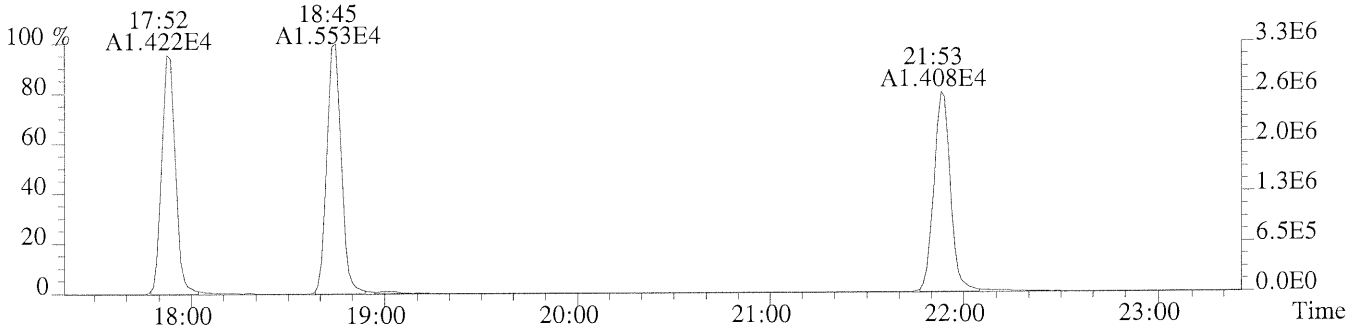
File:U142062 #1-336 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2748.0,1.00%,F,T)



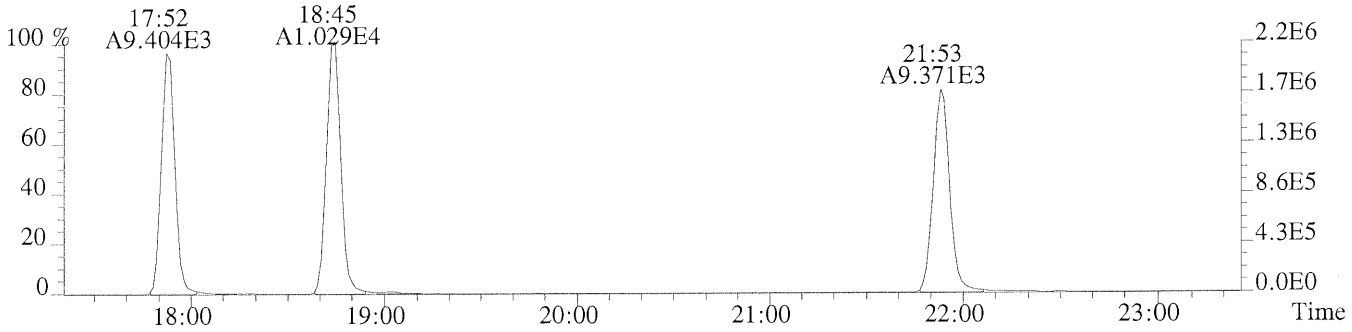
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10228.0,1.00%,F,T)



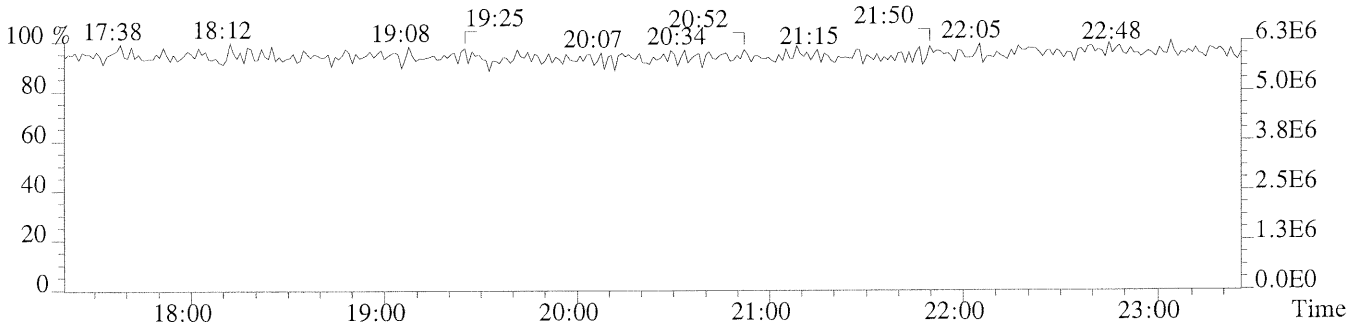
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2176.0,1.00%,F,T)



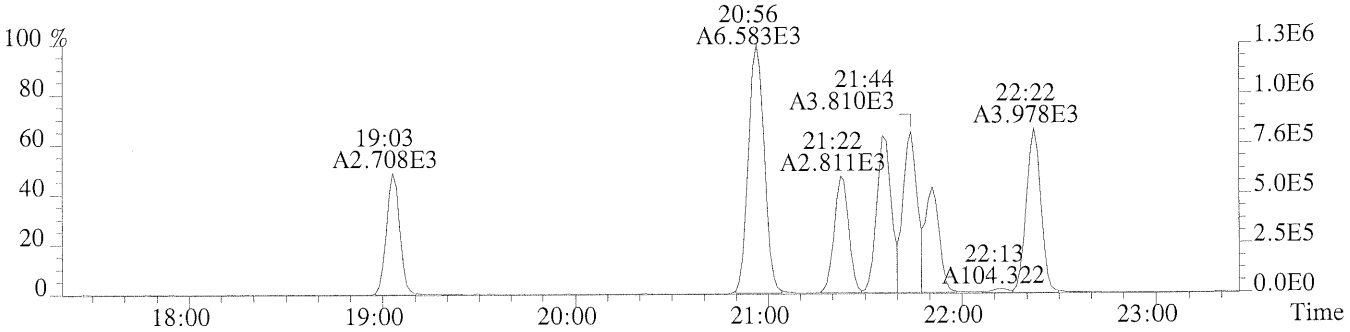
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



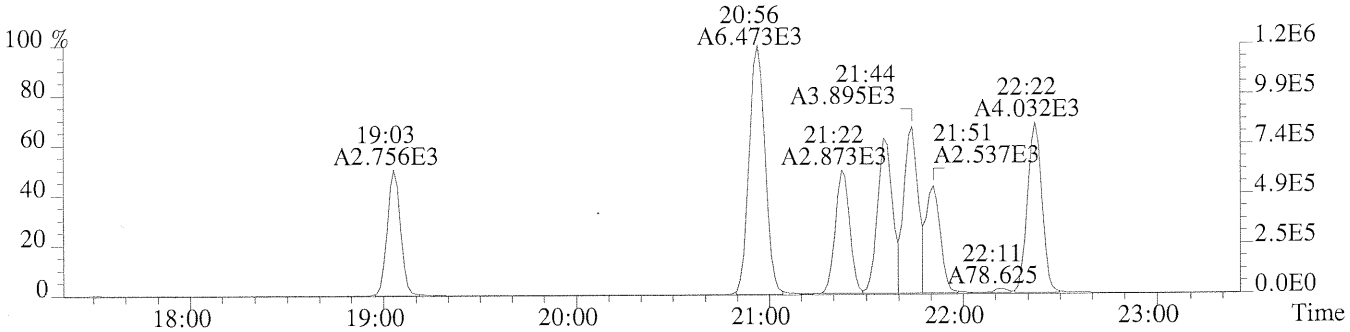
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



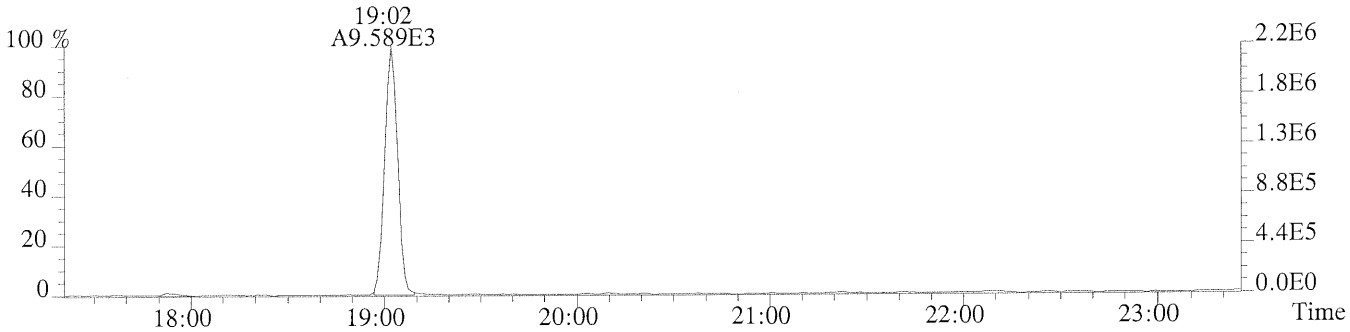
File:U142062 #1-336 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1212.0,1.00%,F,T)



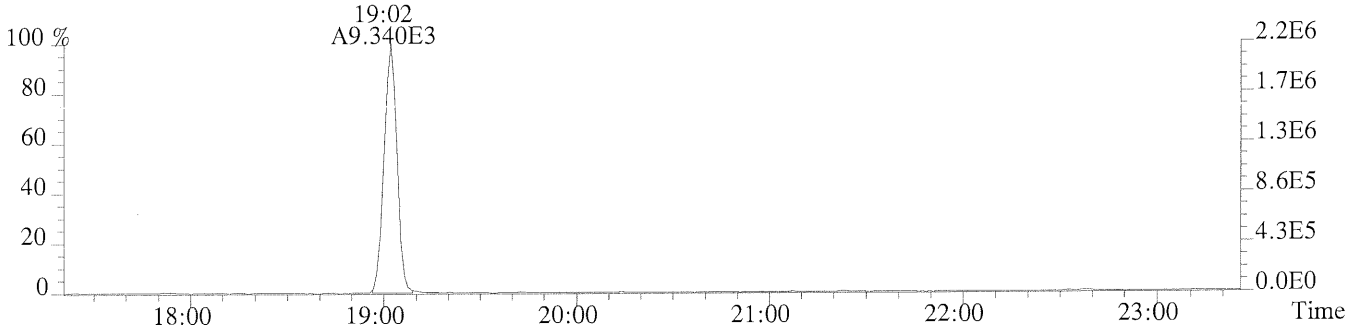
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1048.0,1.00%,F,T)



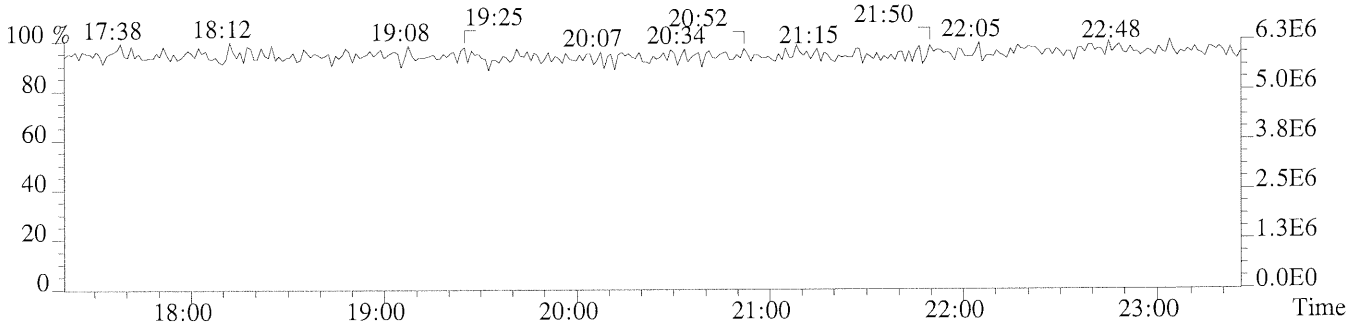
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8744.0,1.00%,F,T)



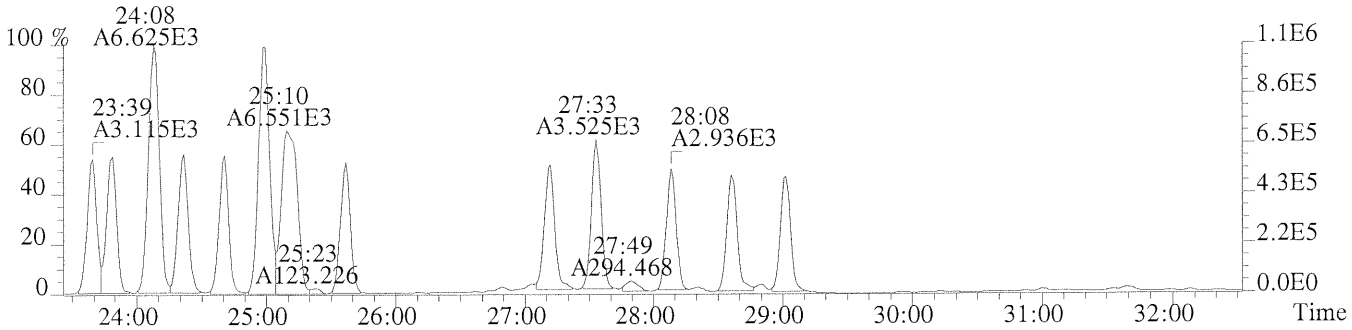
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6680.0,1.00%,F,T)



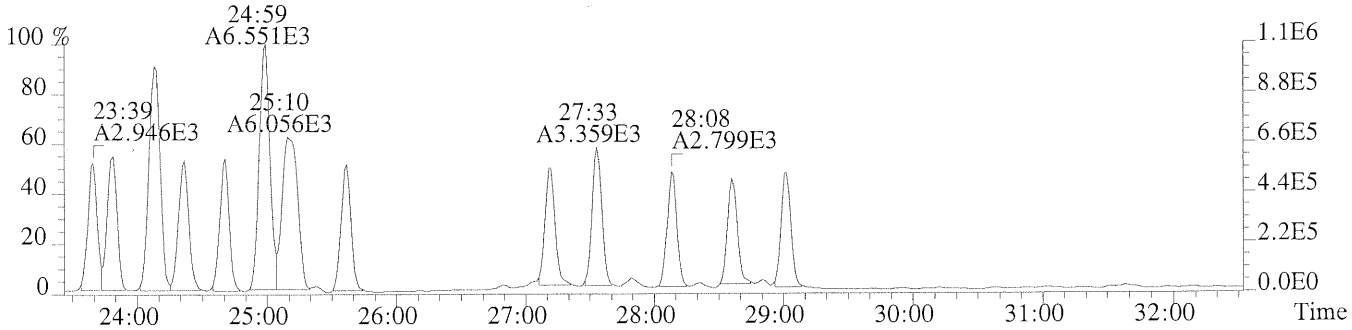
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



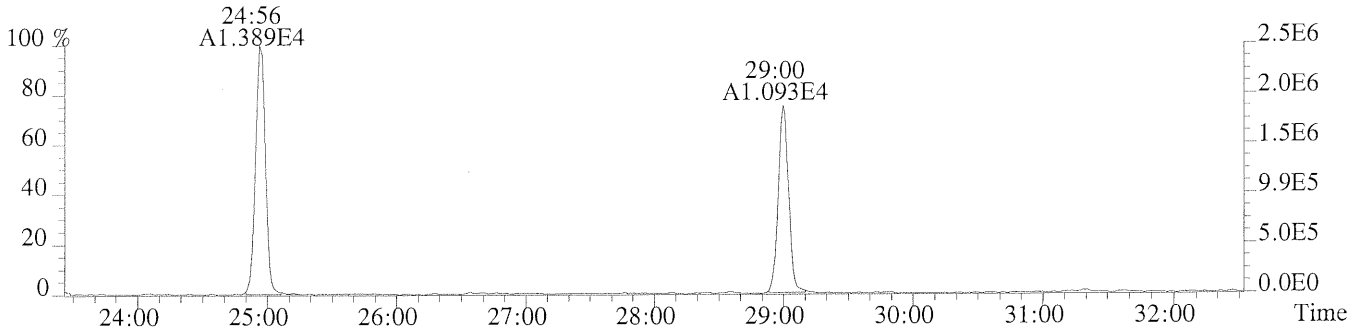
File:U142062 #1-582 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10356.0,1.00%,F,T)



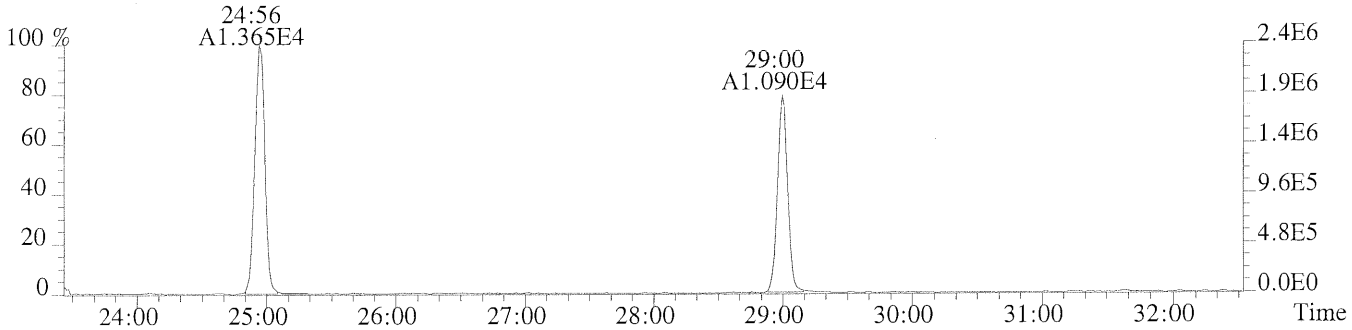
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,25560.0,1.00%,F,T)



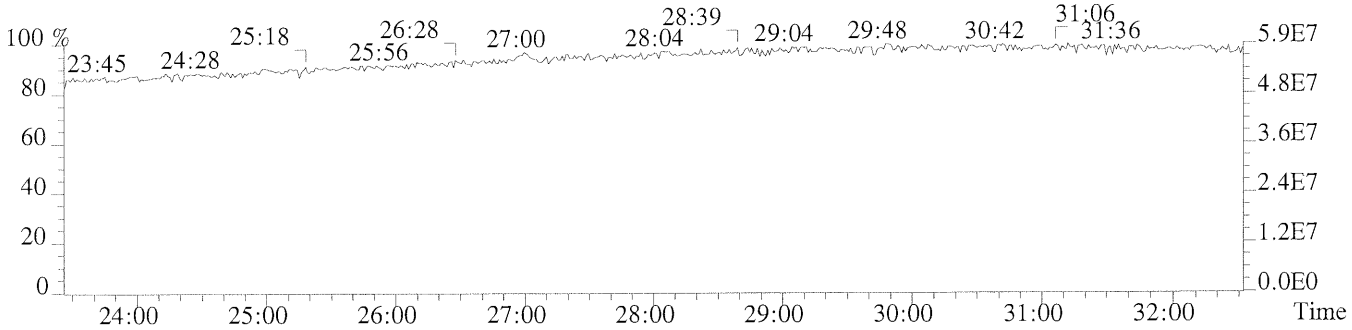
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9872.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9604.0,1.00%,F,T)

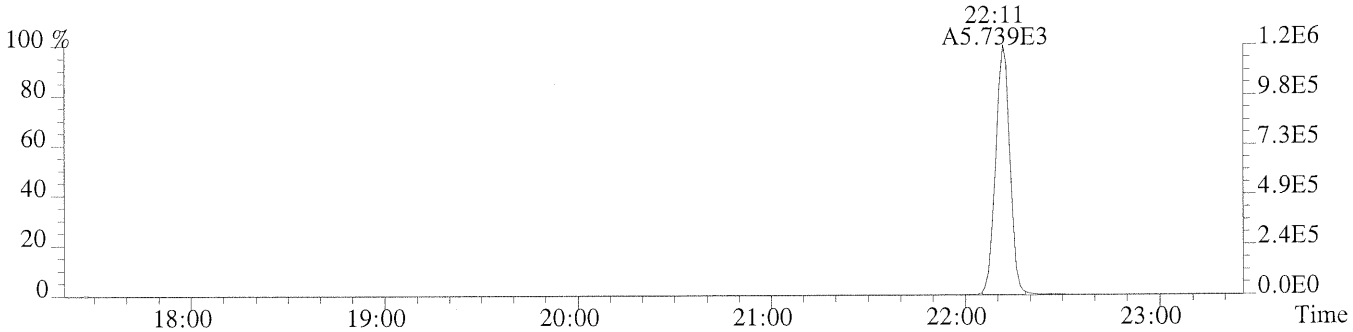


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

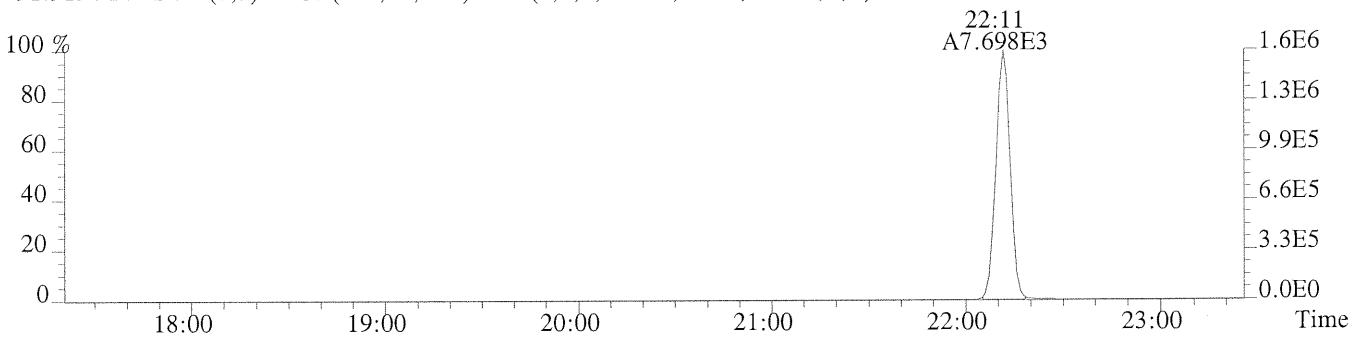


File:U142062 #1-336 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

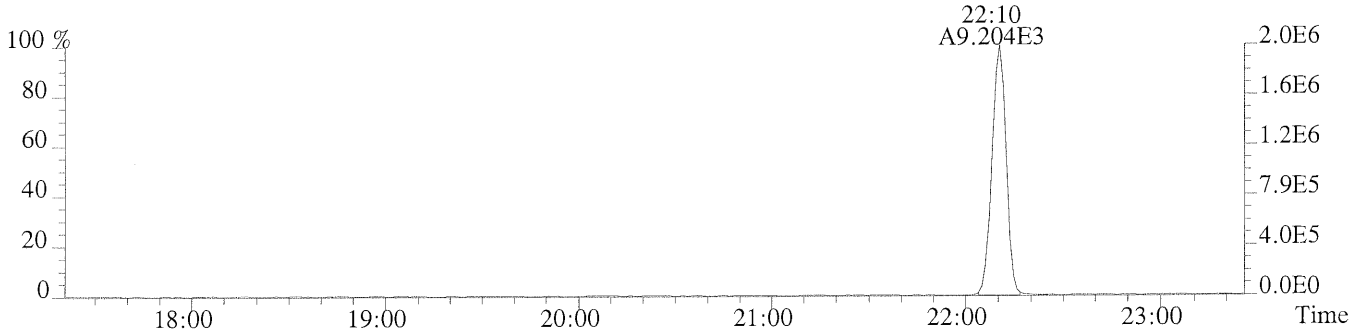
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



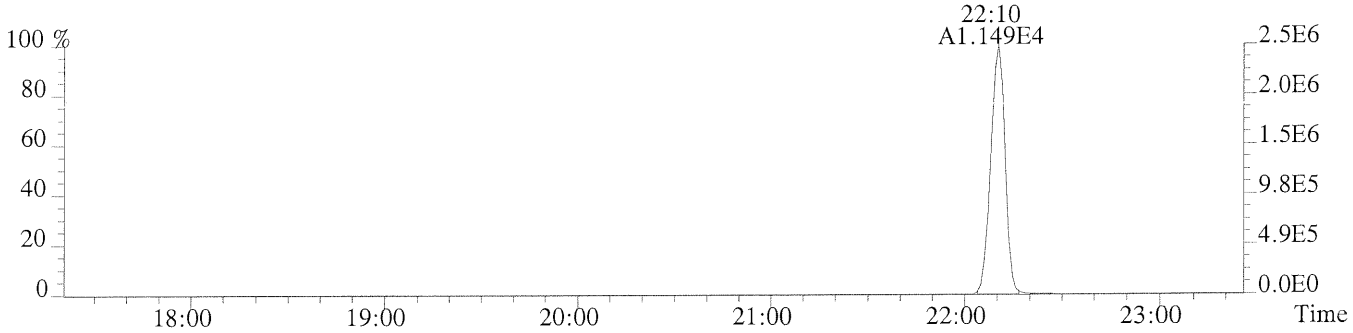
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)



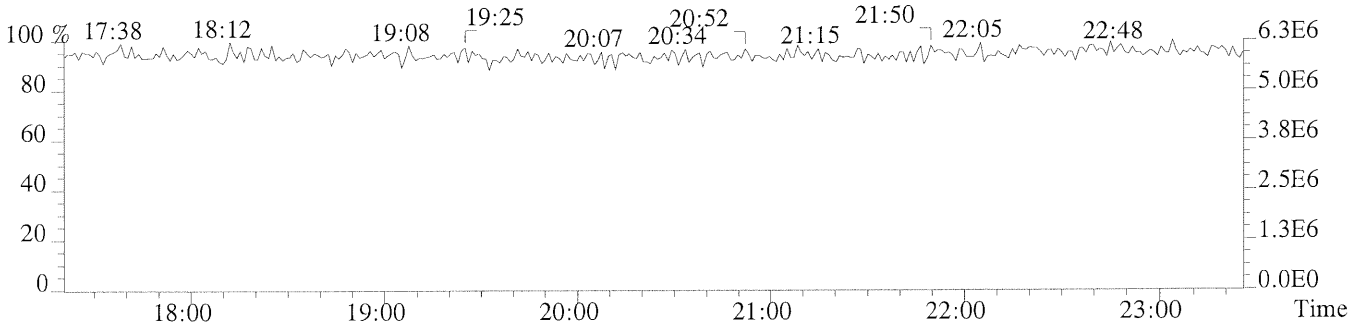
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3088.0,1.00%,F,T)



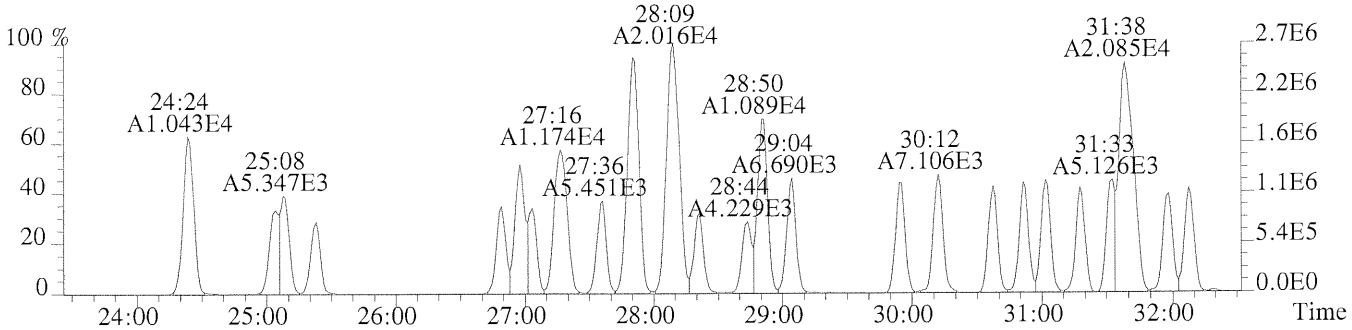
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1332.0,1.00%,F,T)



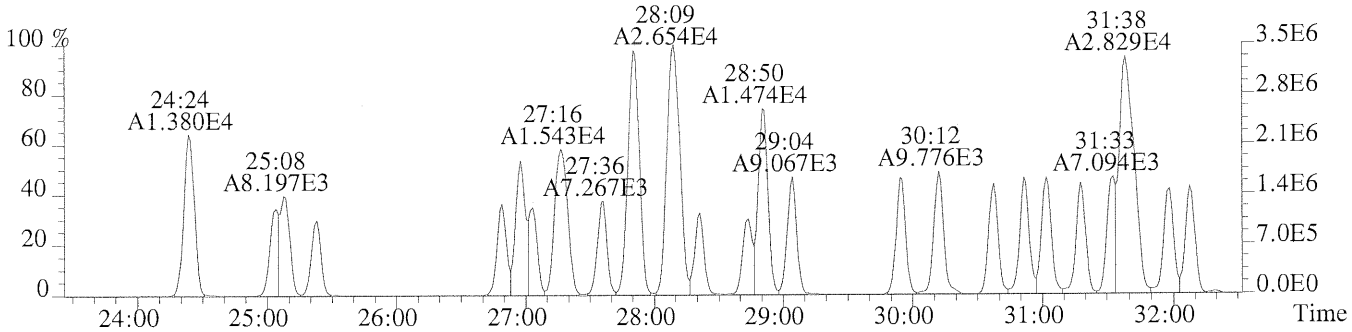
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



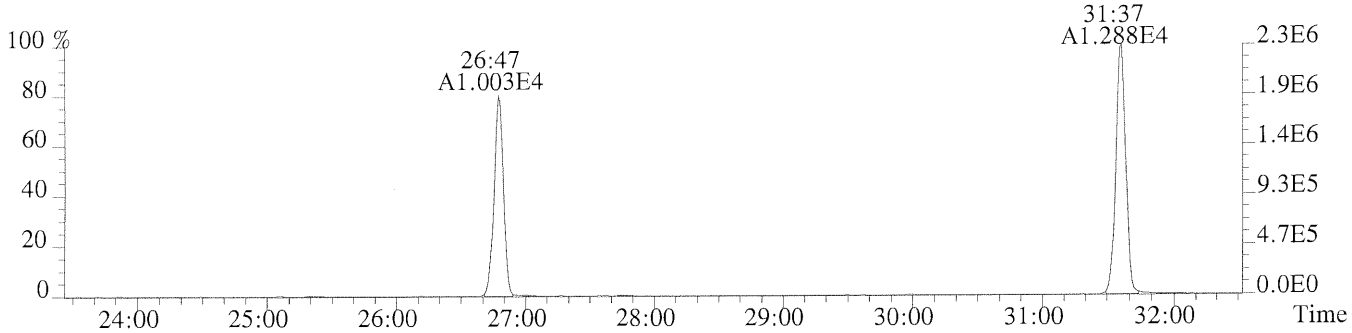
File:U142062 #1-582 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1456.0,1.00%,F,T)



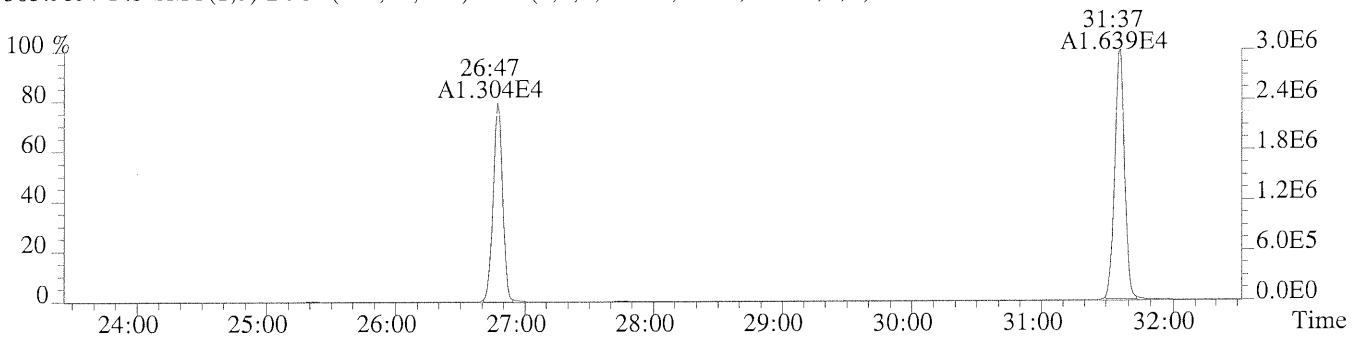
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



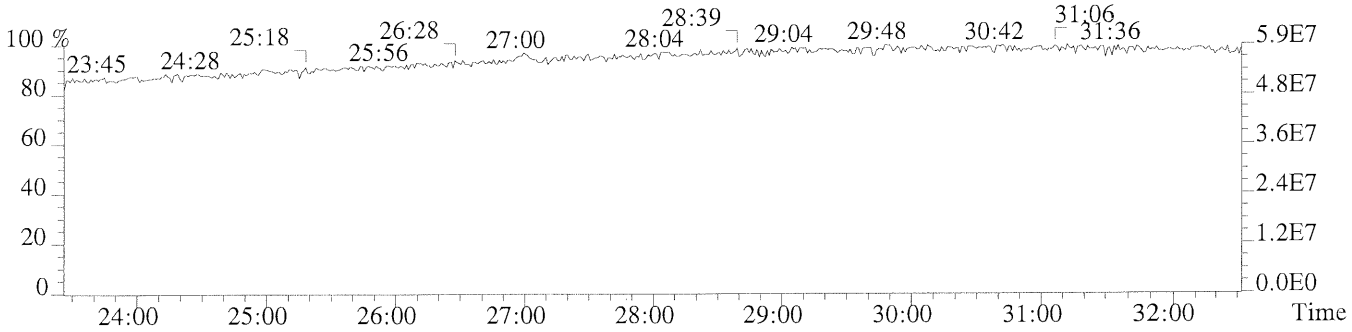
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2288.0,1.00%,F,T)



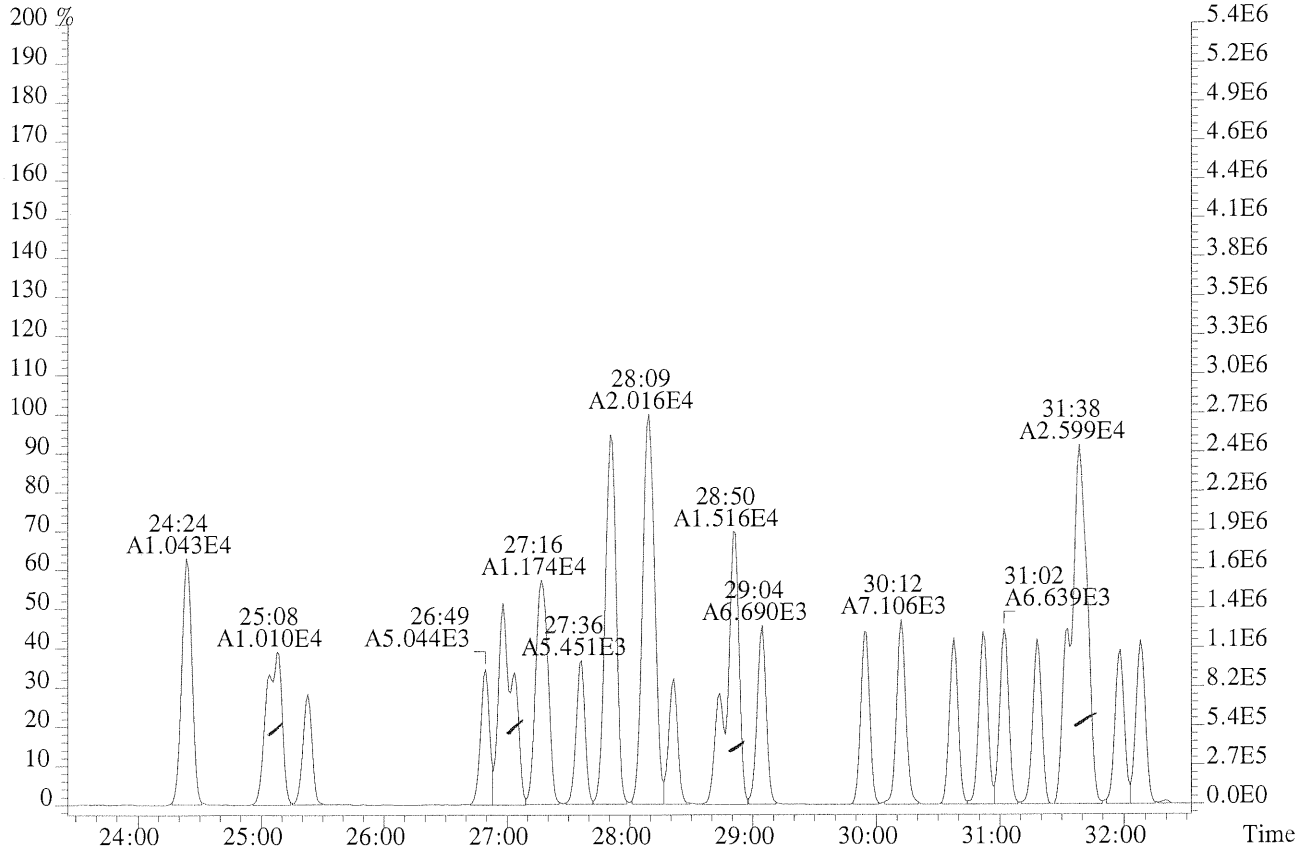
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868.0,1.00%,F,T)



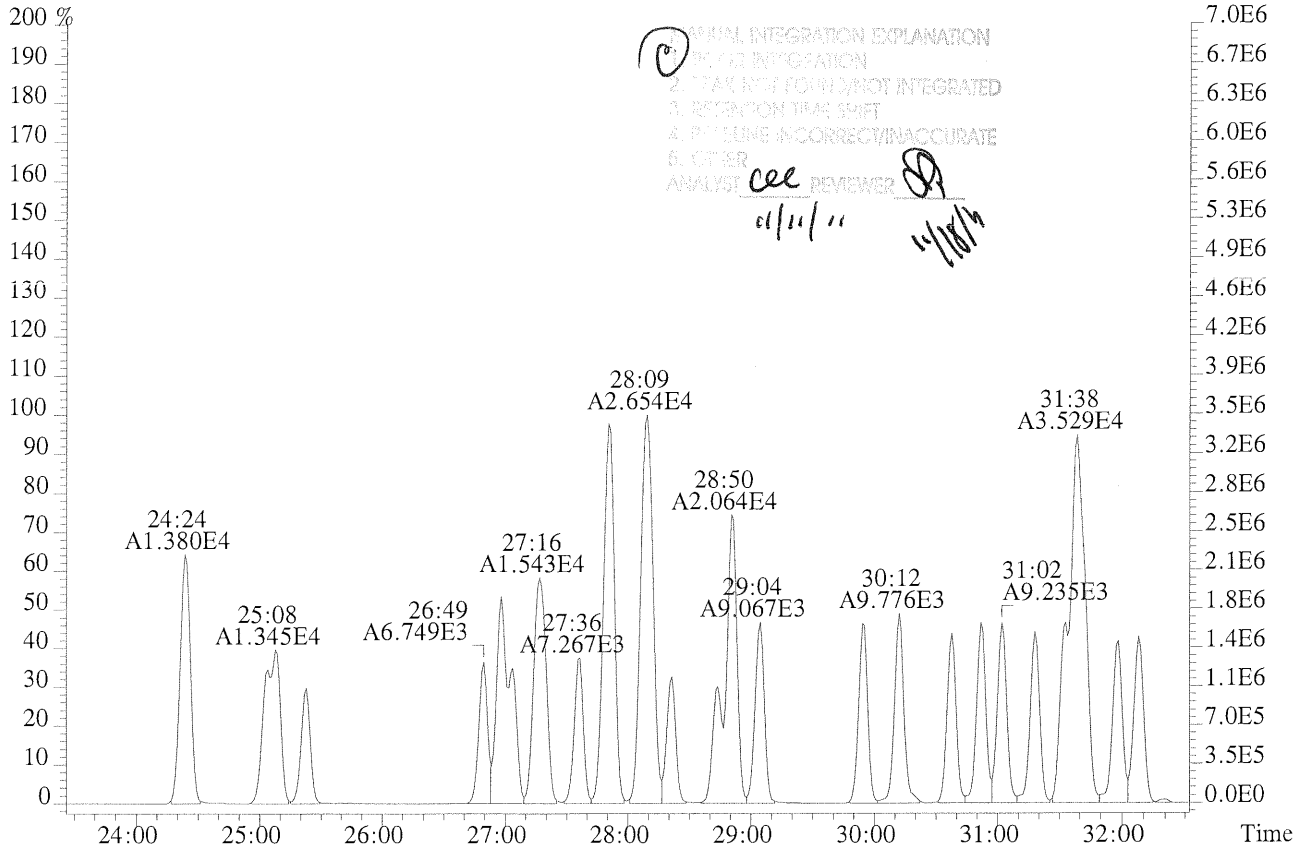
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142062 #1-582 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1456.0,1.00%,F,T)



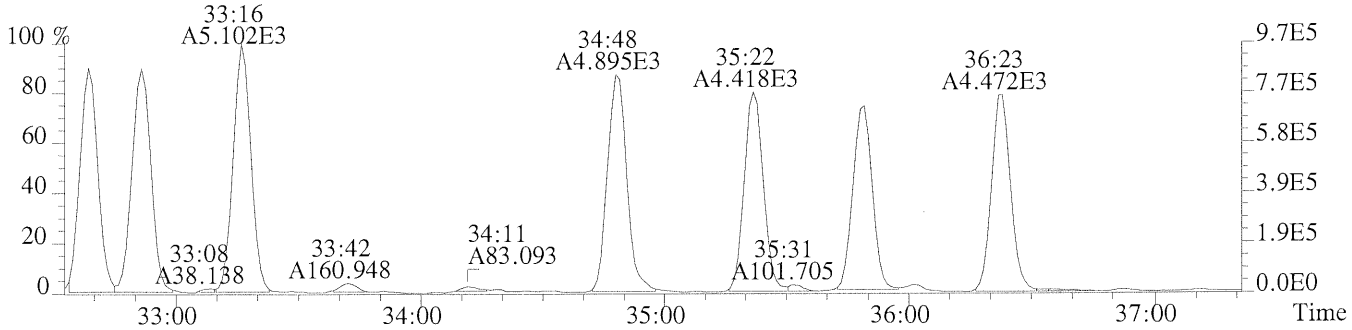
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



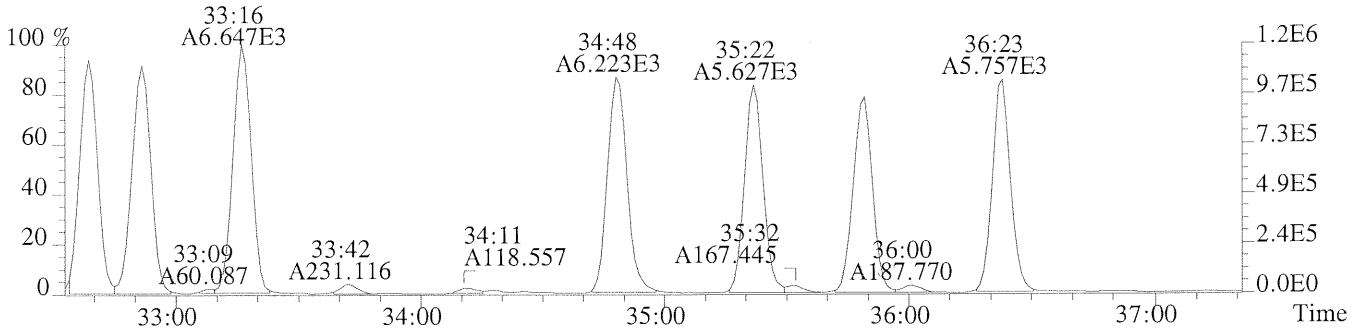
MANUAL INTEGRATION EXPLANATION
1. NEW INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cee 01/11/11 REVIEWER 11/18/11

File:U142062 #1-308 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

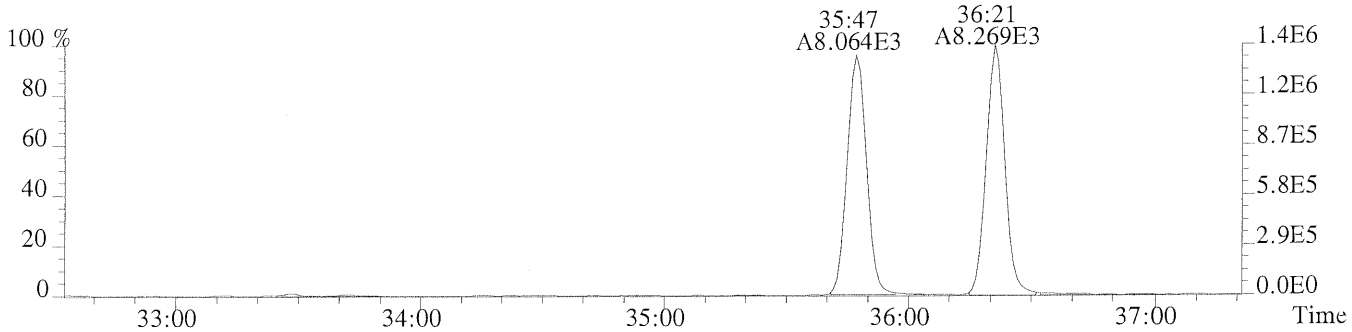
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8092.0,1.00%,F,T)



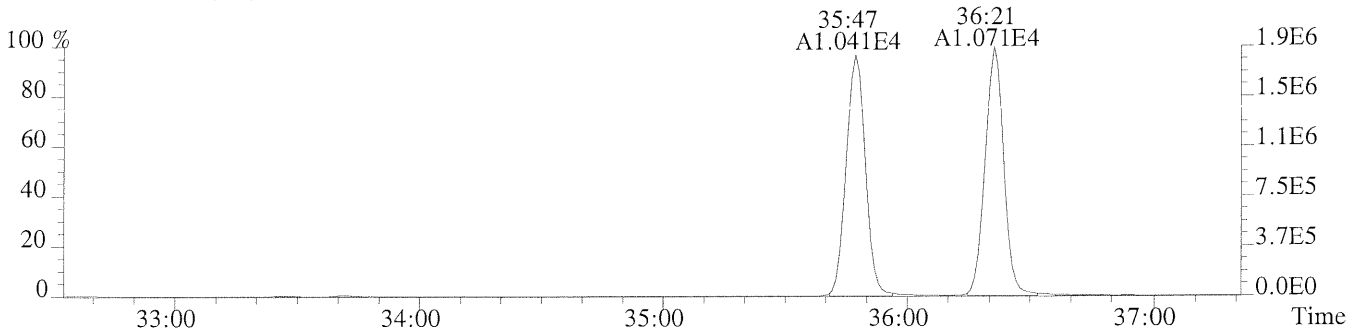
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8612.0,1.00%,F,T)



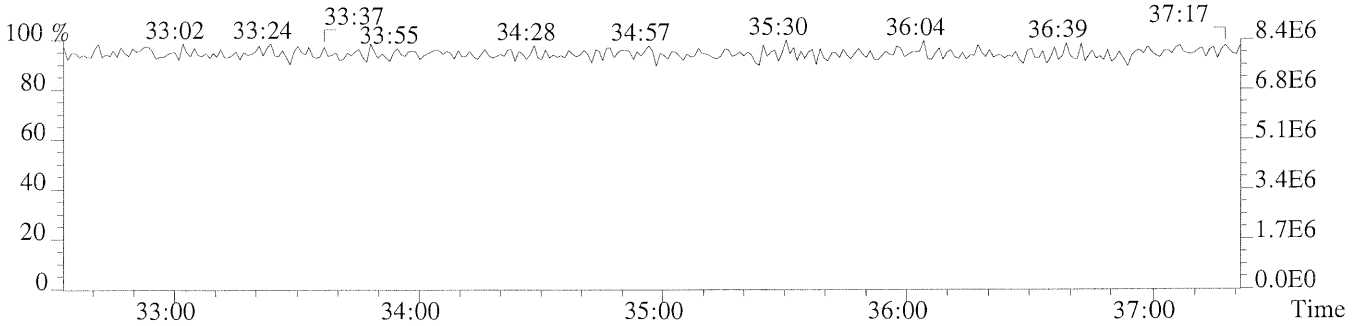
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2024.0,1.00%,F,T)



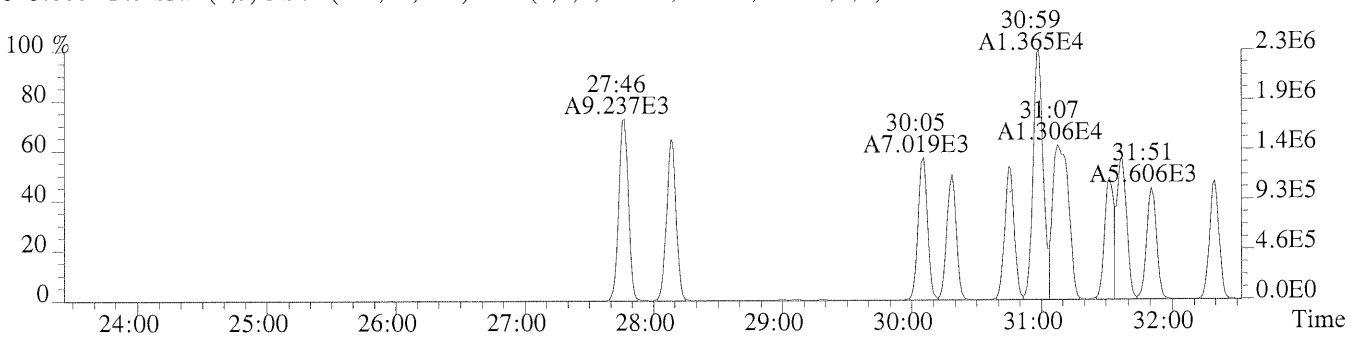
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)



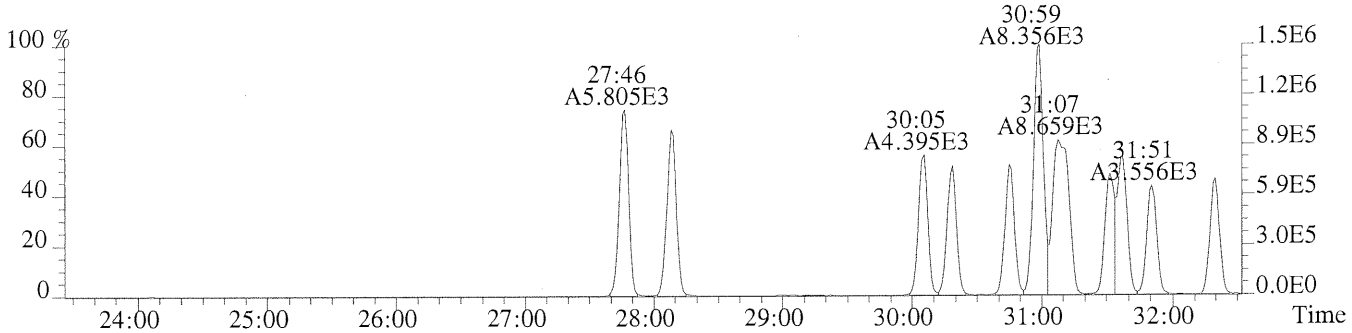
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



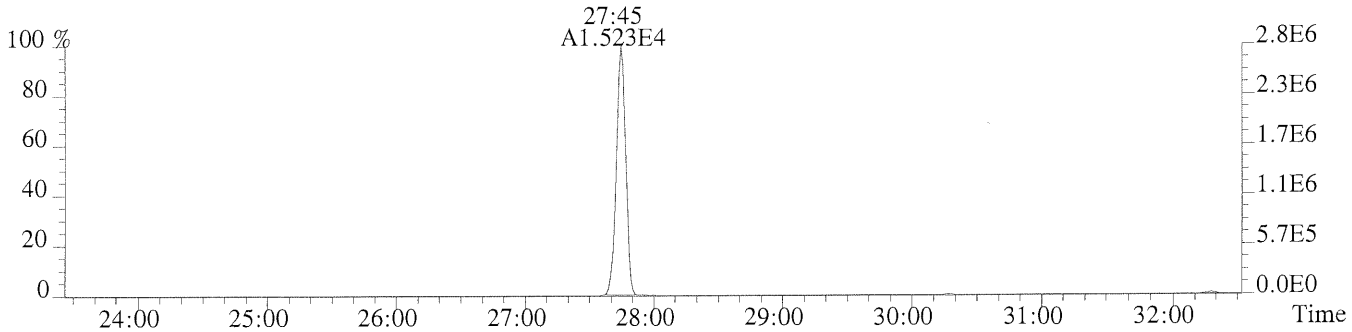
File:U142062 #1-582 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1096.0,1.00%,F,T)



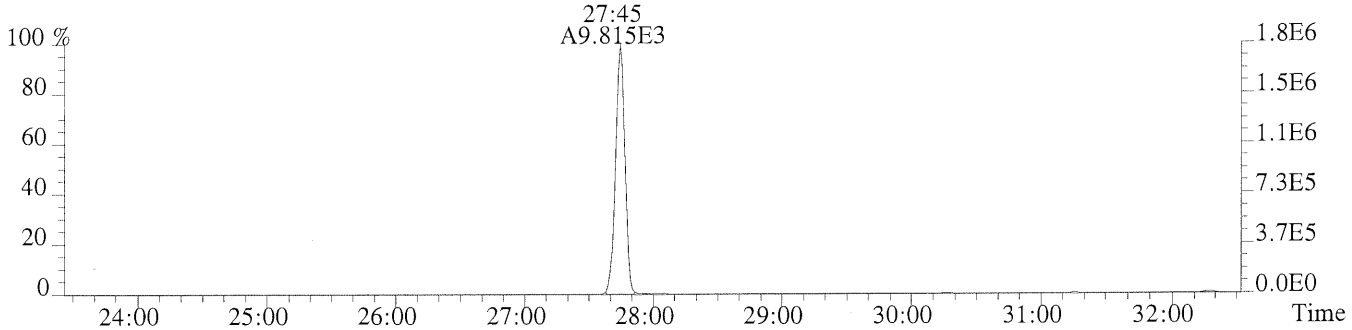
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1412.0,1.00%,F,T)



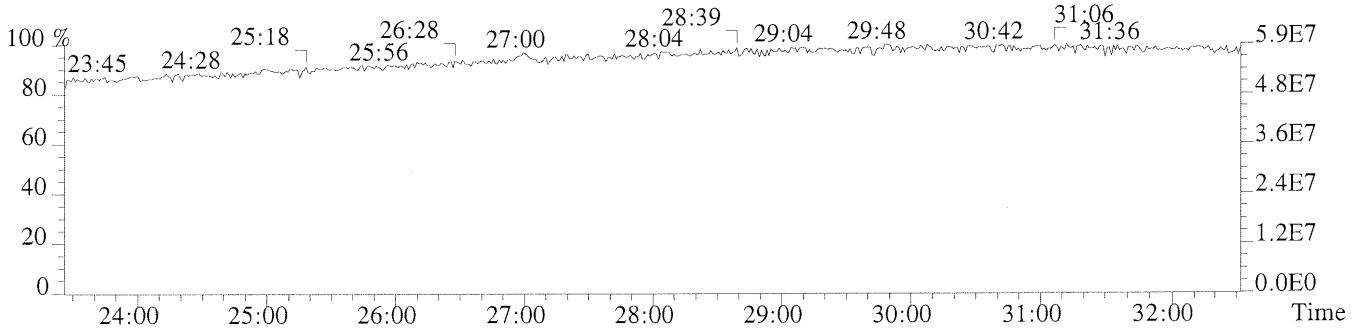
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1228.0,1.00%,F,T)



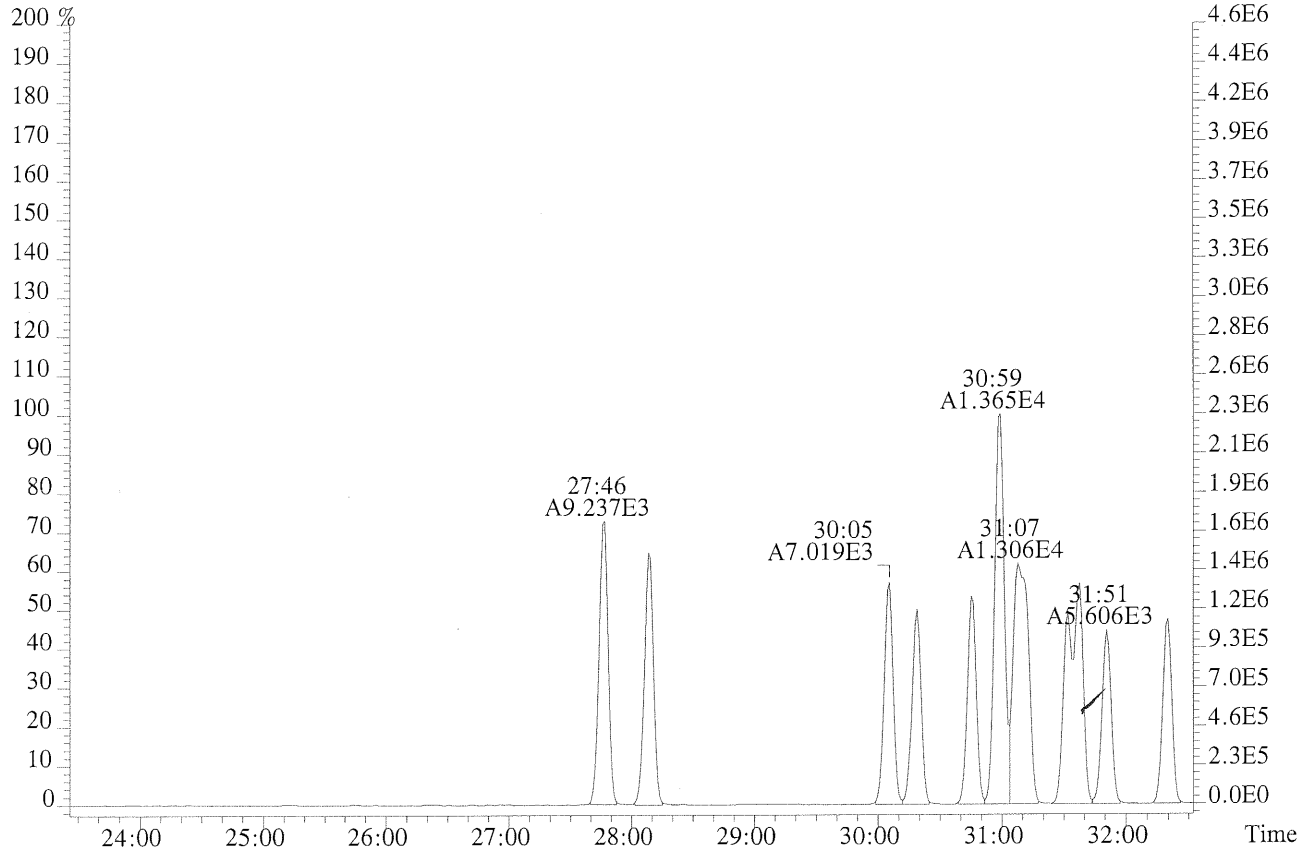
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1408.0,1.00%,F,T)



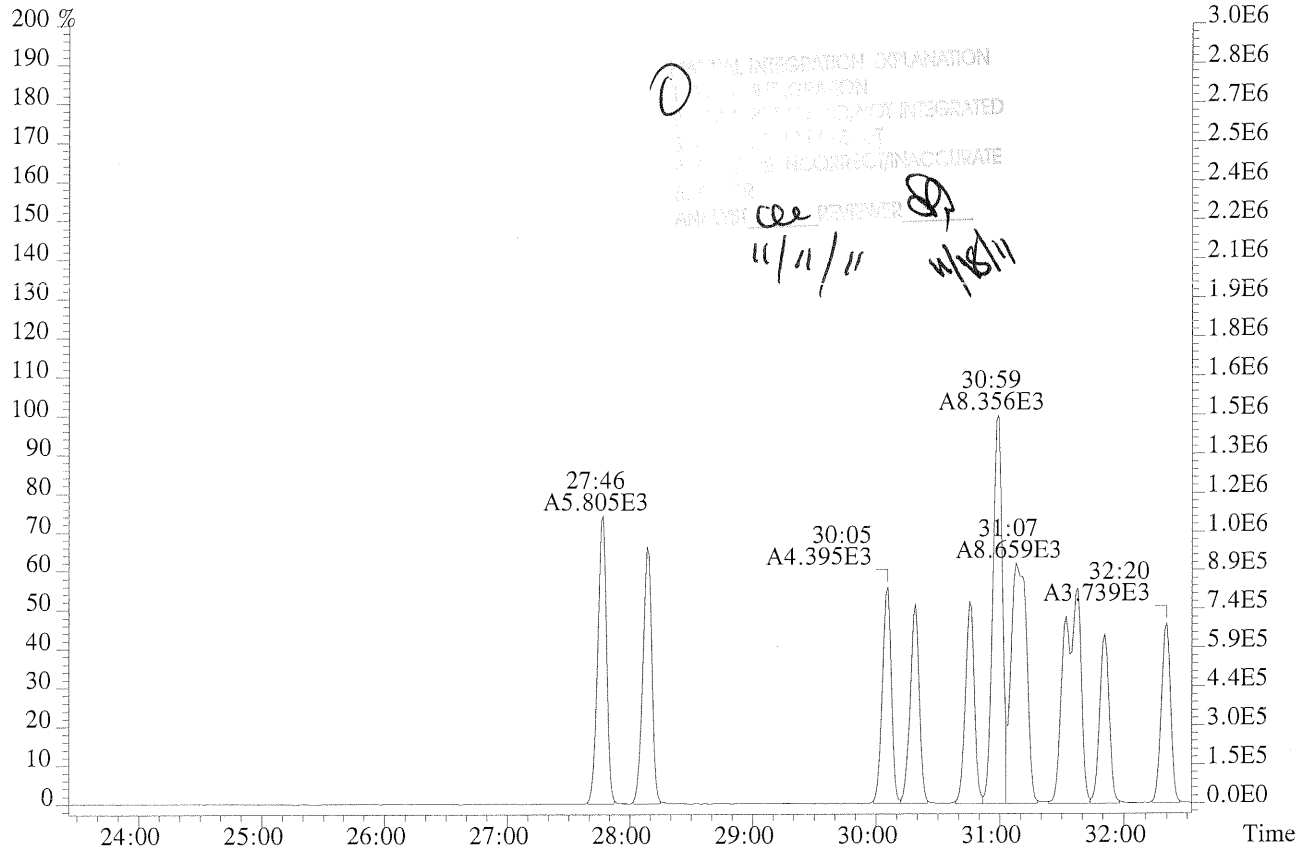
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



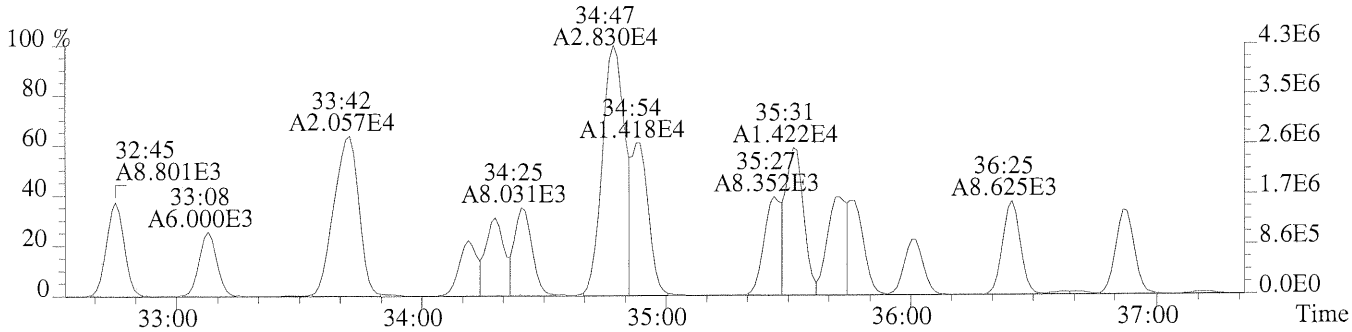
File:U142062 #1-582 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1096.0,1.00%,F,T)



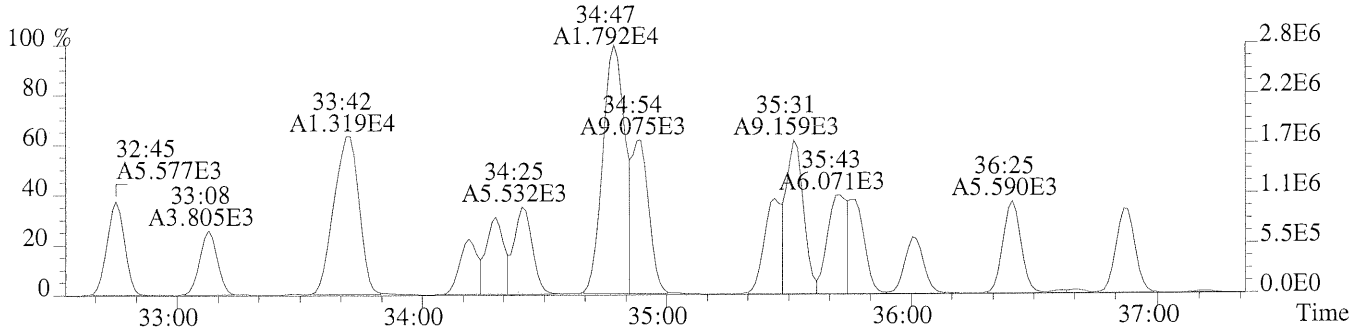
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1412.0,1.00%,F,T)



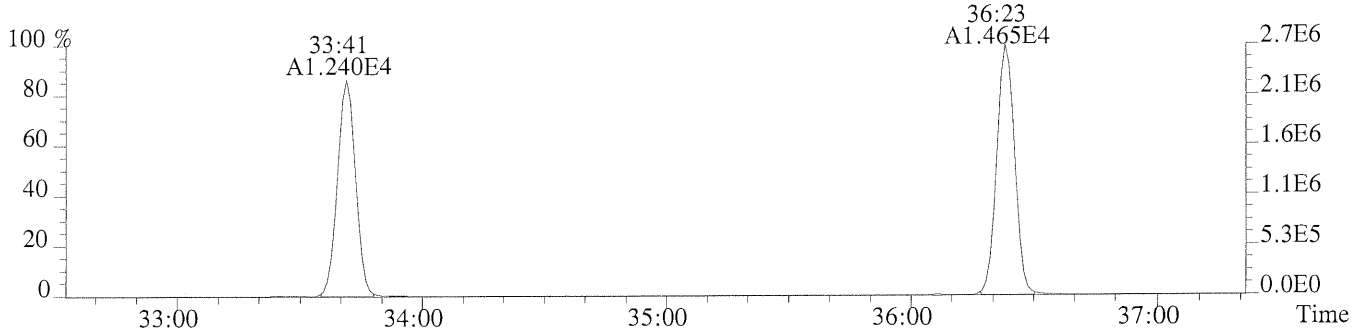
File:U142062 #1-308 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2296.0,1.00%,F,T)



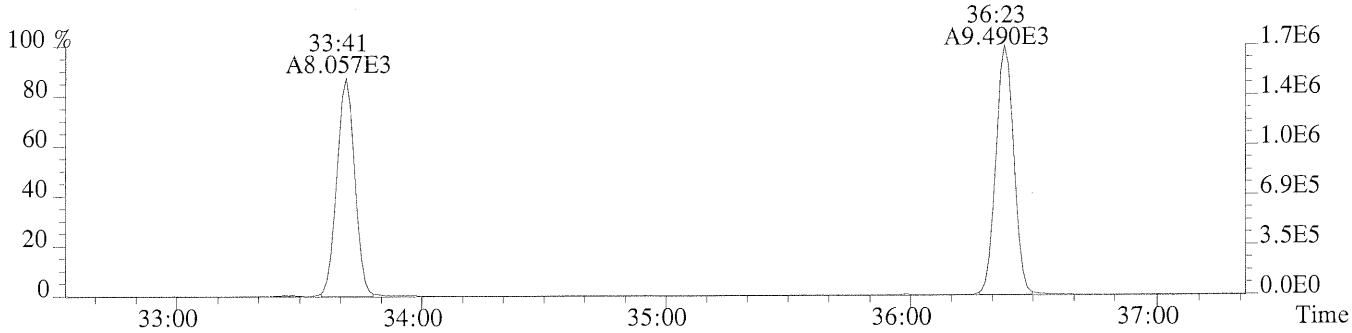
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5276.0,1.00%,F,T)



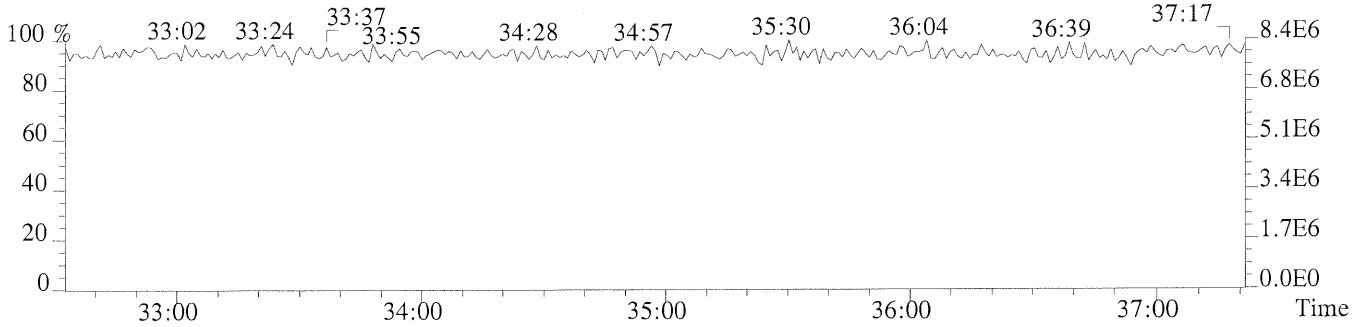
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1364.0,1.00%,F,T)



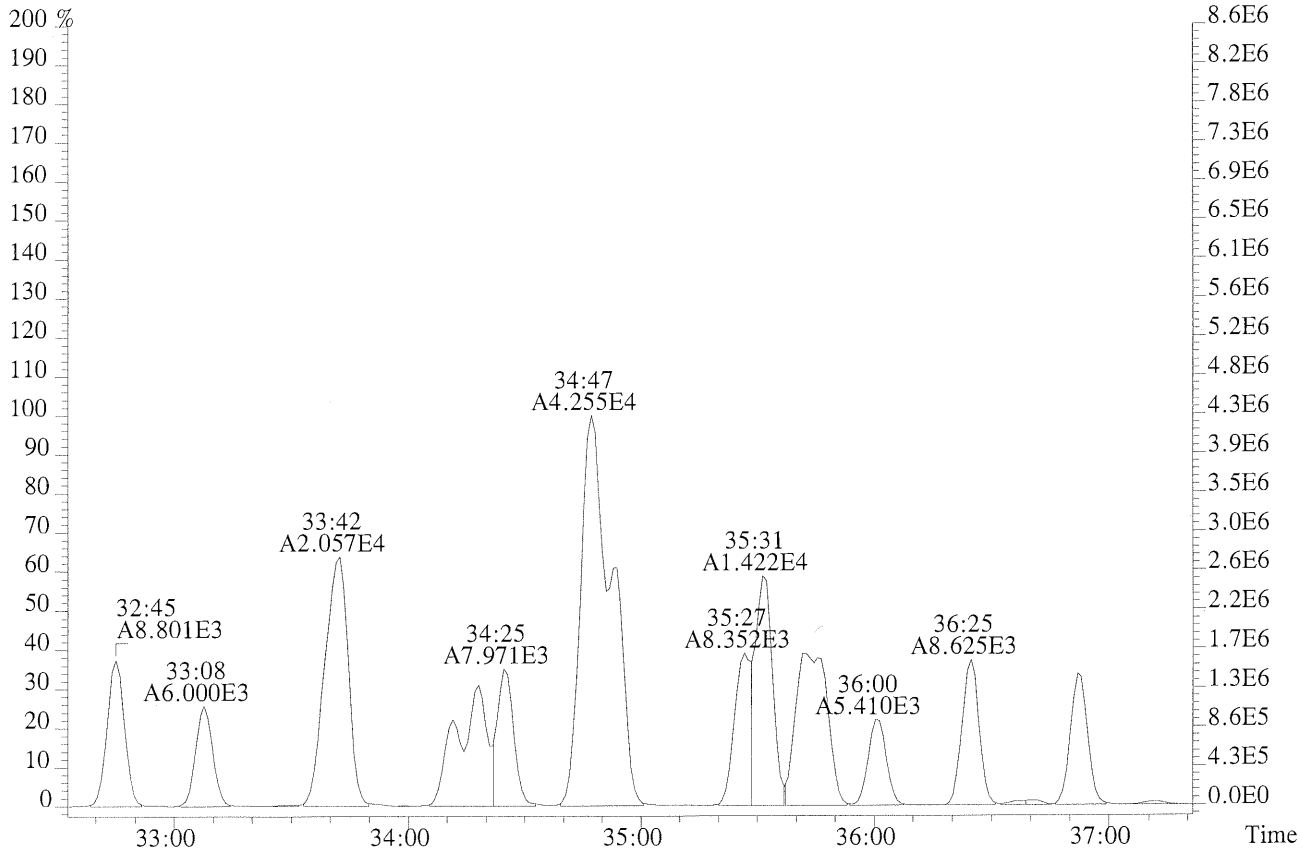
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1344.0,1.00%,F,T)



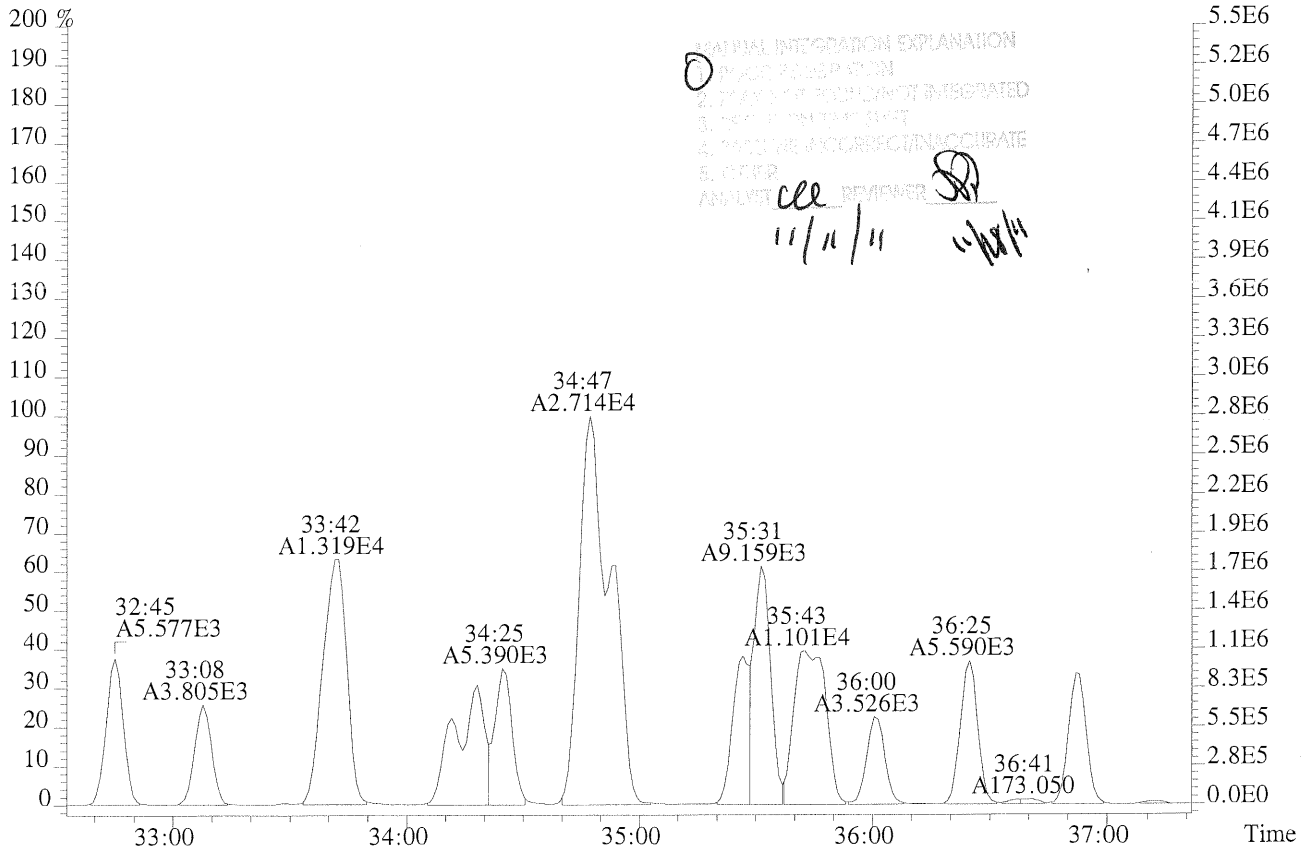
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142062 #1-308 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2296.0,1.00%,F,T)



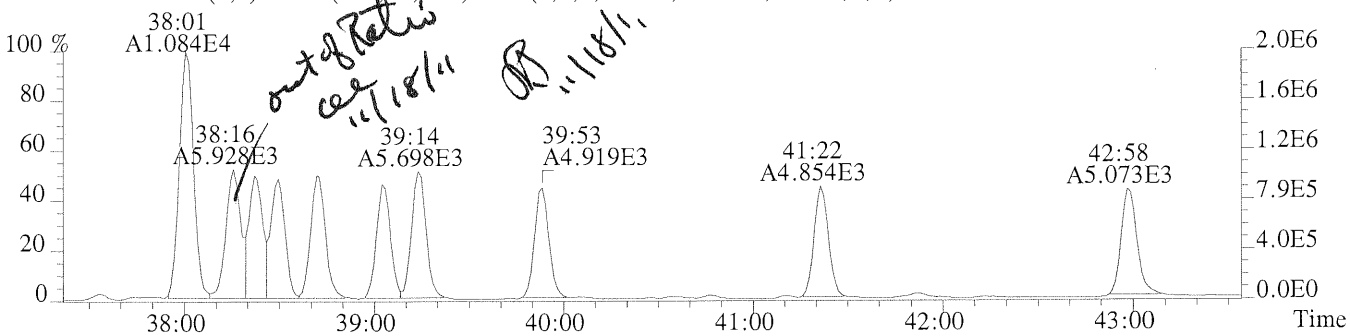
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5276.0,1.00%,F,T)



MANUAL INTEGRATION EXPLANATION
1. PEAK MISSIDENTIFICATION
2. PEAK FOR ISOMER NOT INTEGRATED
3. SKEW PRINTING SHEET
4. MANUAL INTEGRATION CORRECT/INACCURATE
5. OTHER
ANALYST cee REVIEWER SD
11/11/11 11/11/11

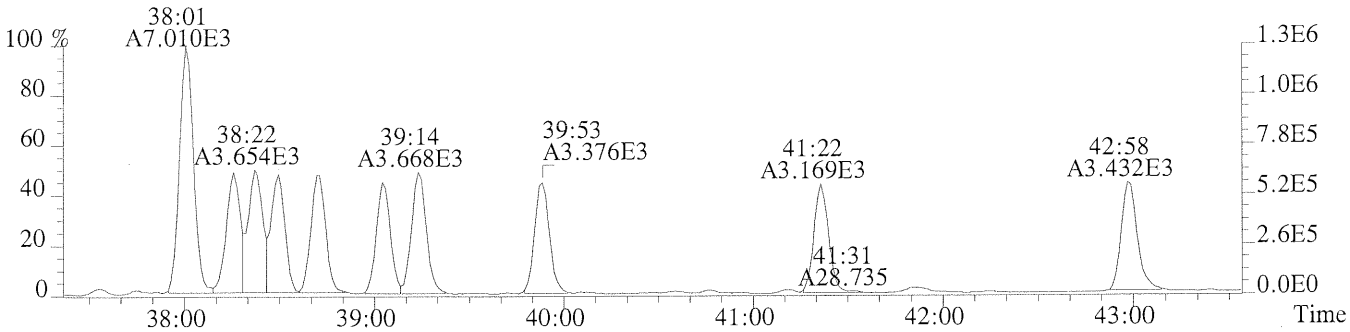
File:U142062 #1-397 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,26016.0,1.00%,F,T)

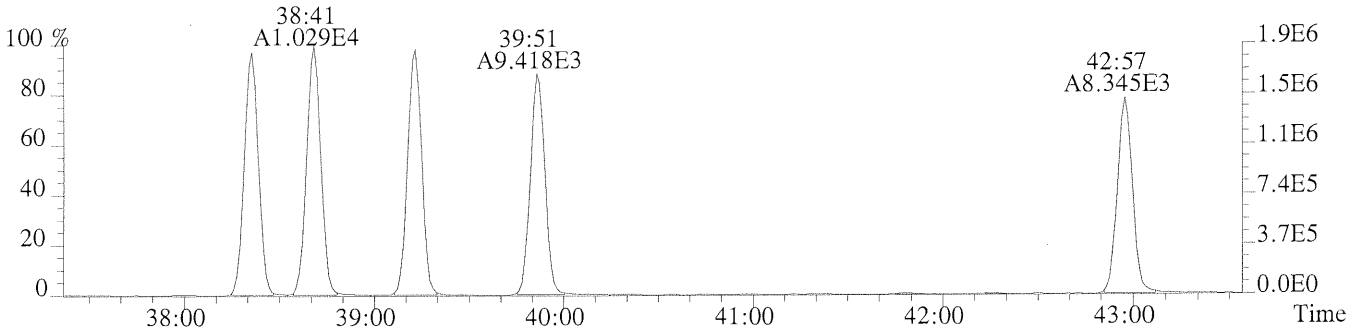


out of Ratio
cc 11/18/11 JB 11/18/11

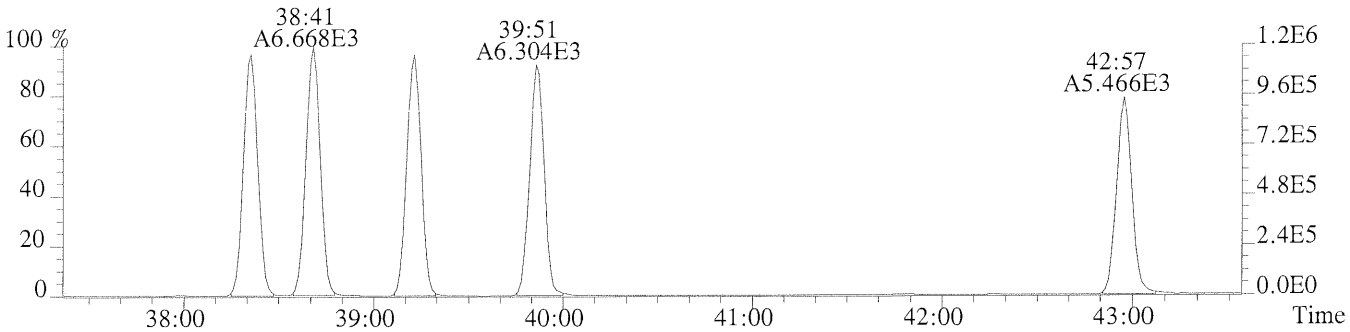
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18908.0,1.00%,F,T)



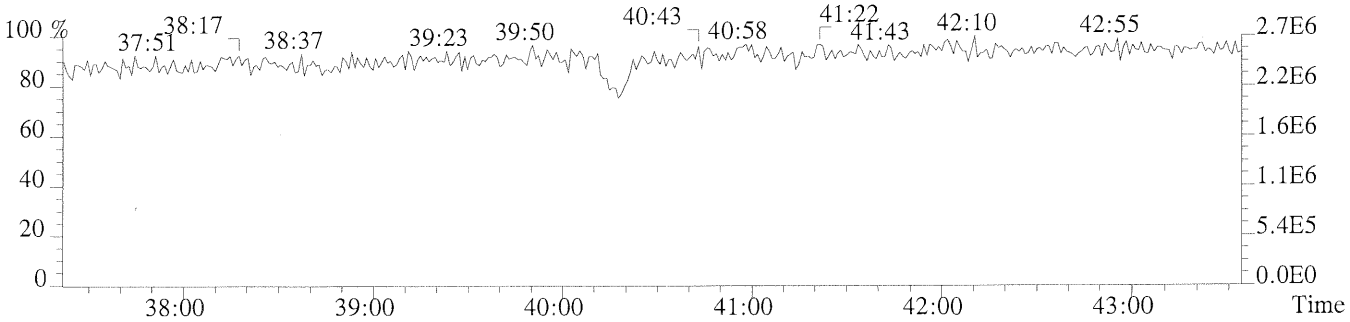
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3160.0,1.00%,F,T)



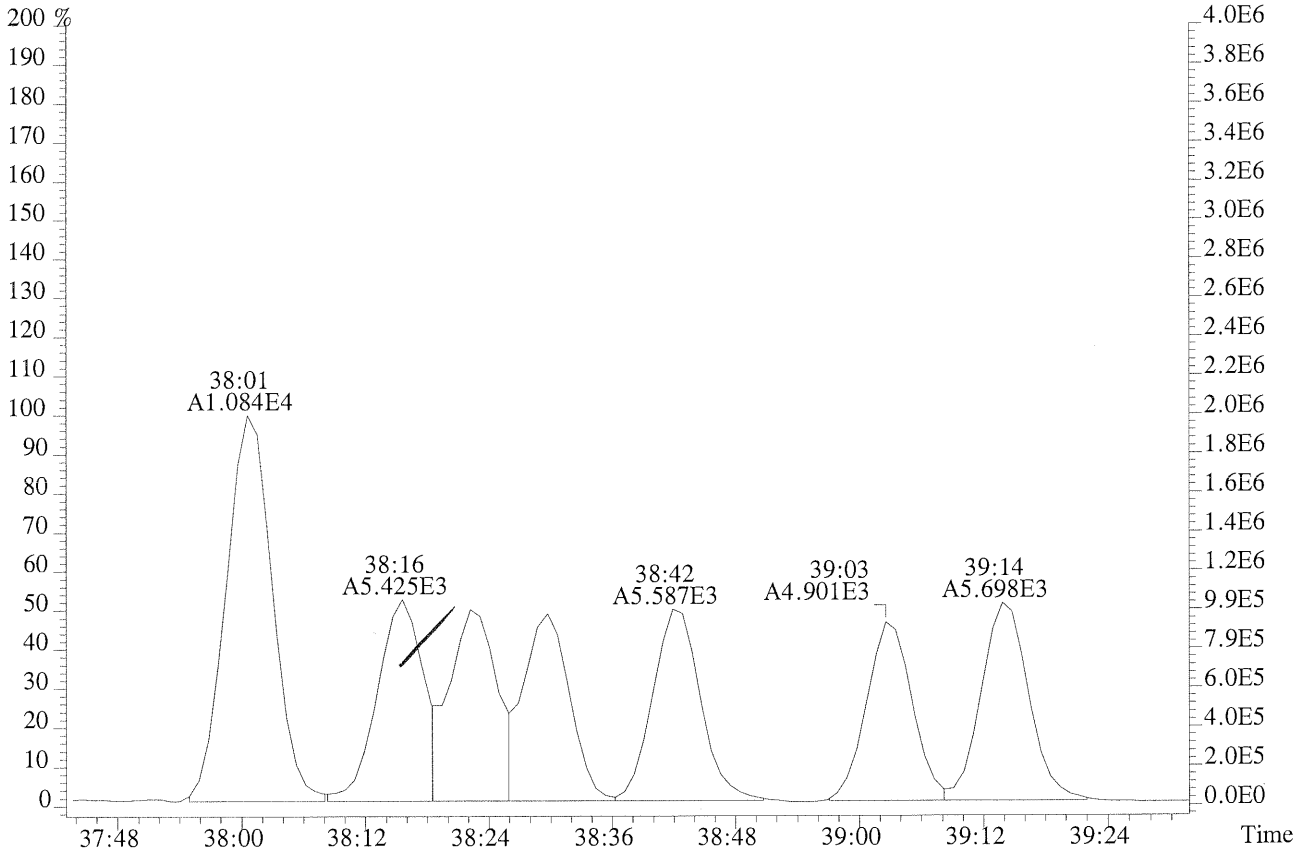
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3896.0,1.00%,F,T)



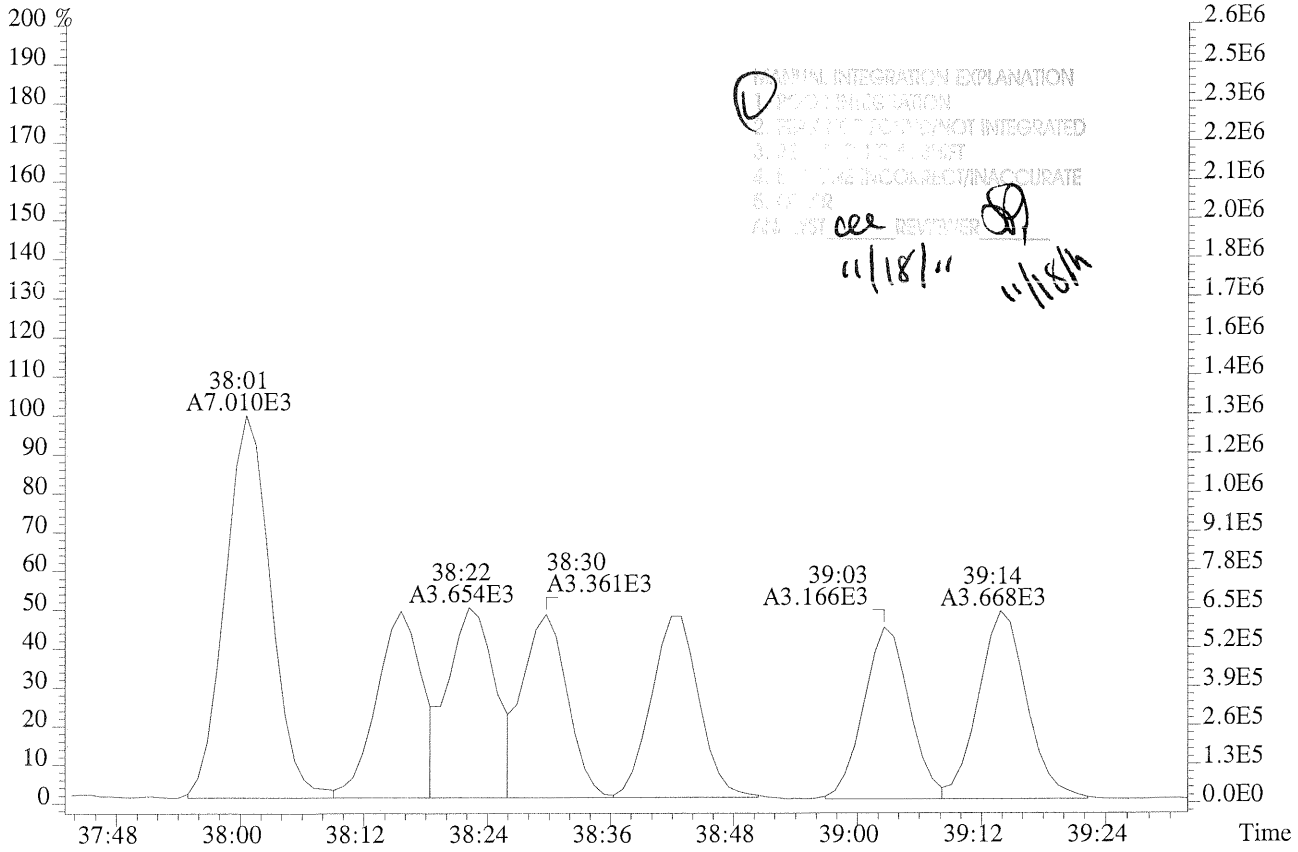
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142062 #1-397 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,26016.0,1.00%,F,T)

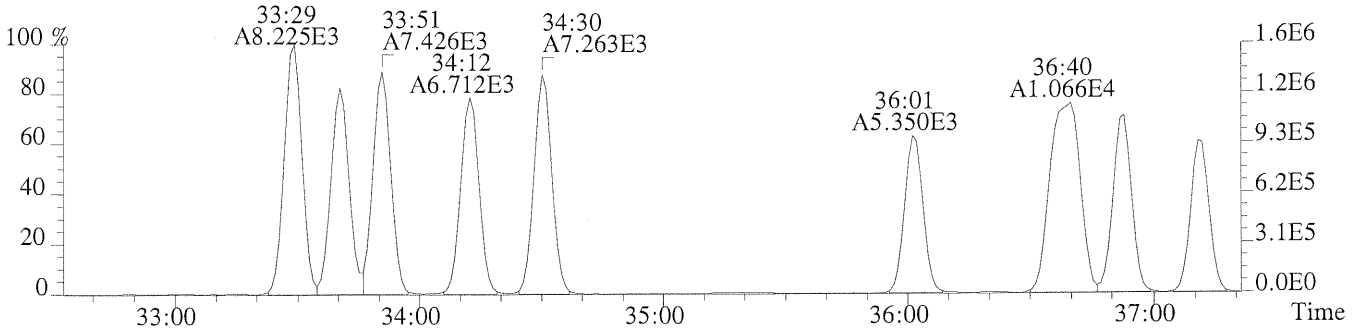


327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18908.0,1.00%,F,T)

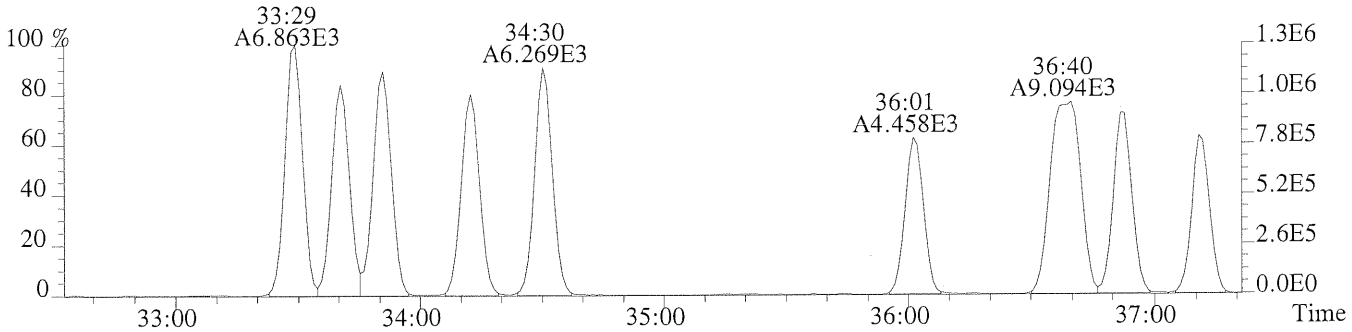


File:U142062 #1-308 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

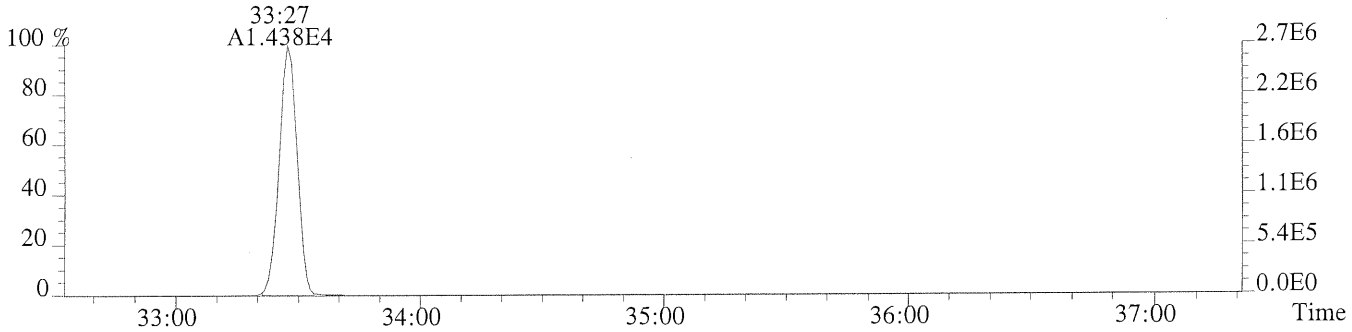
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2072.0,1.00%,F,T)



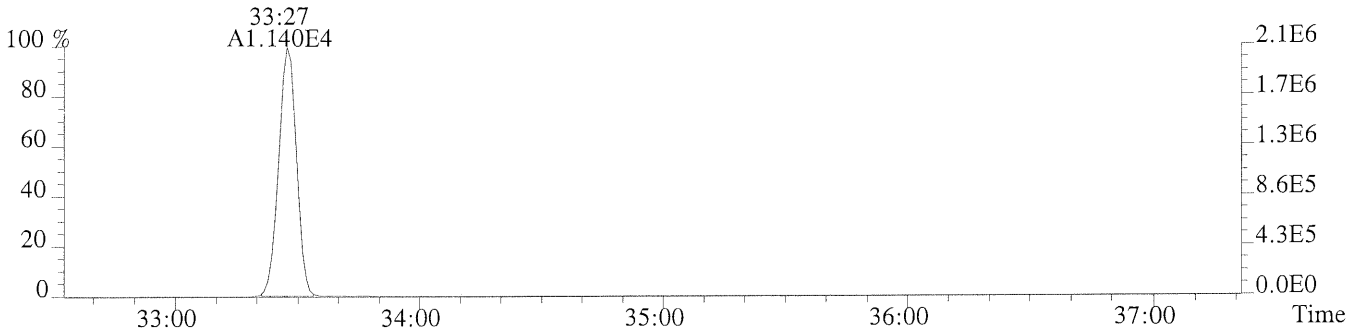
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1664.0,1.00%,F,T)



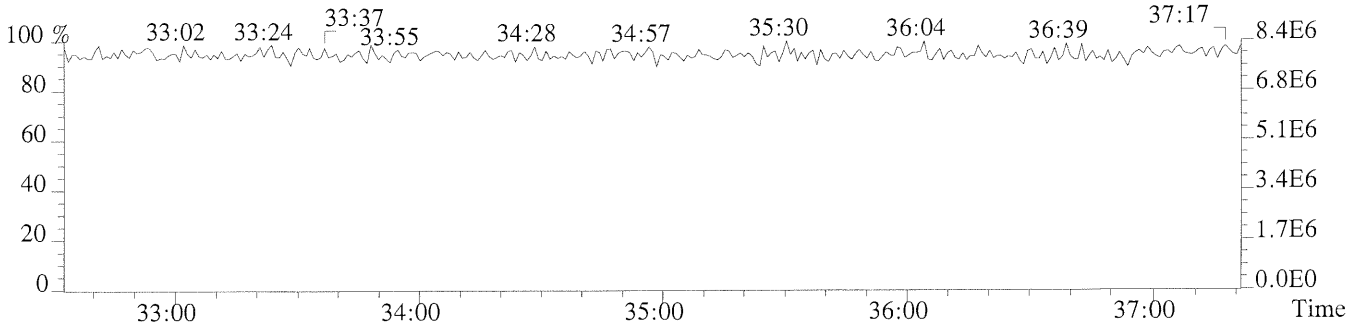
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1288.0,1.00%,F,T)



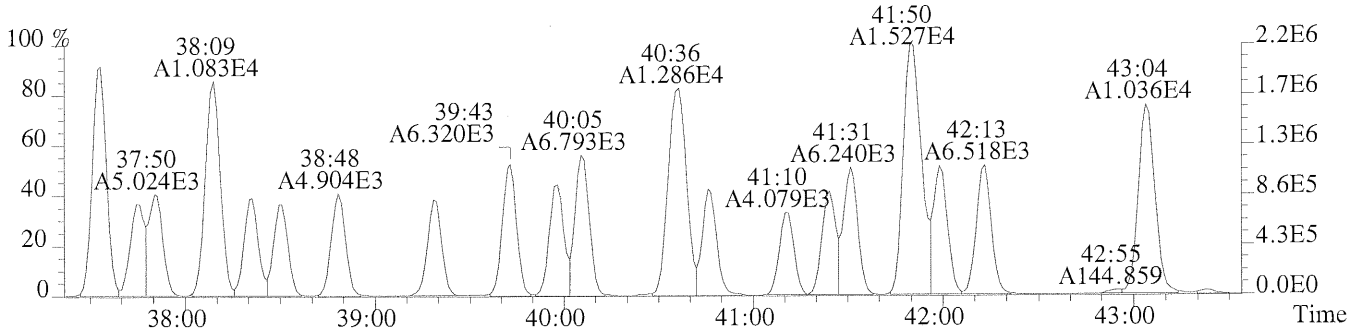
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1796.0,1.00%,F,T)



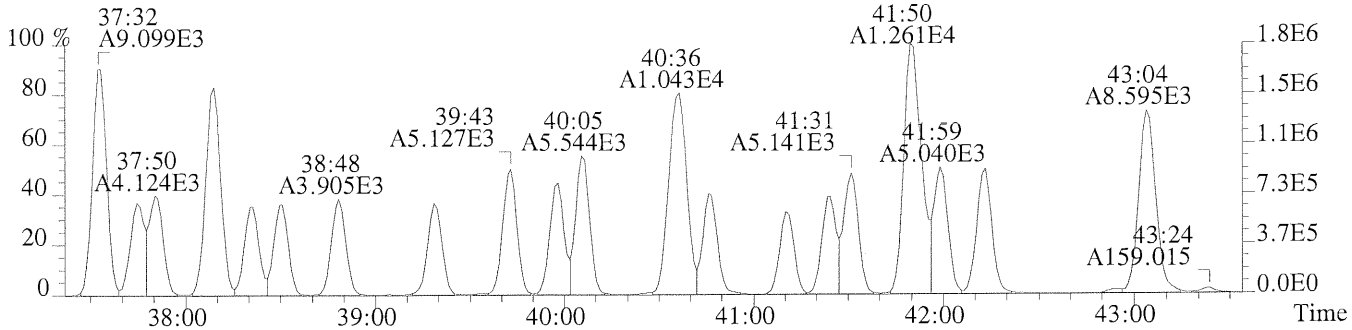
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



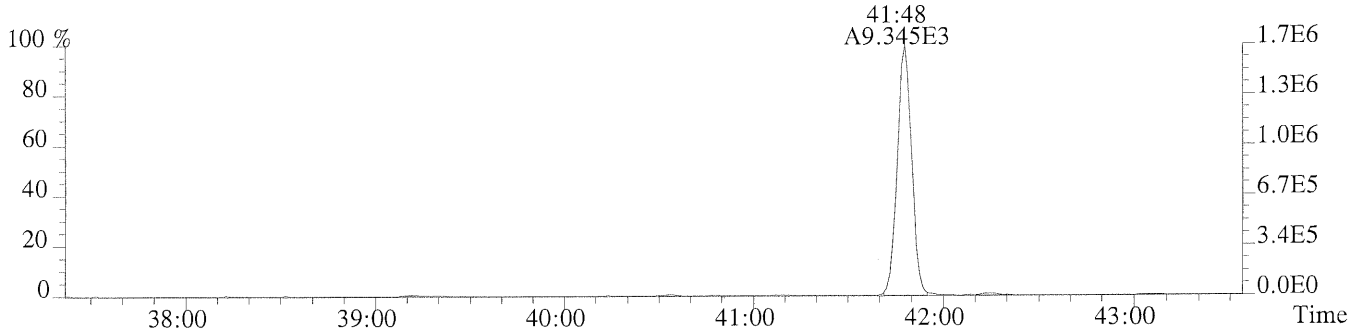
File:U142062 #1-397 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6596.0,1.00%,F,T)



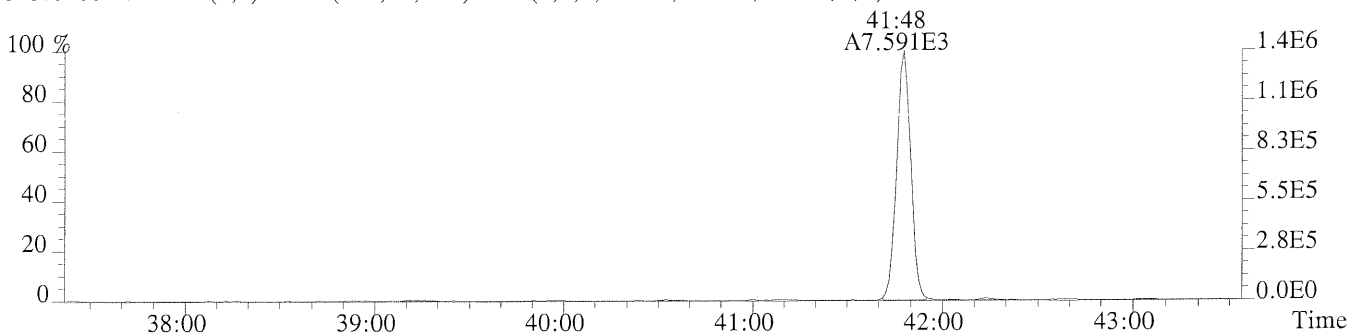
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2876.0,1.00%,F,T)



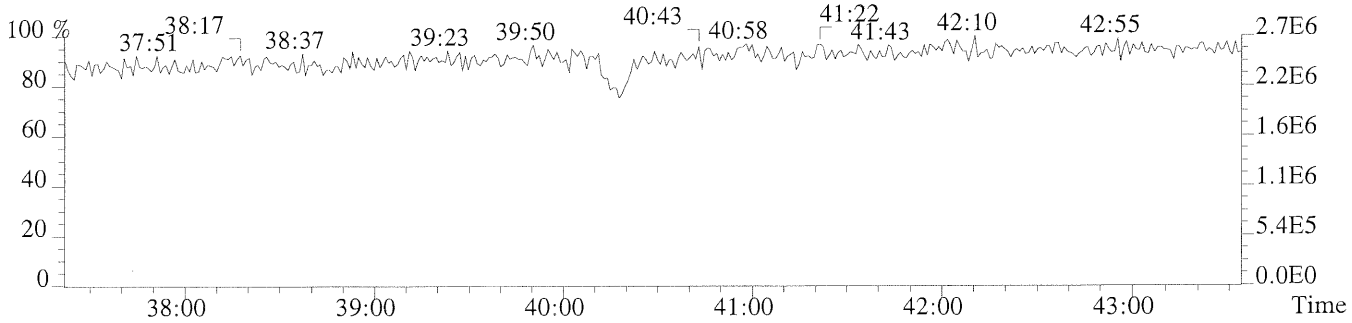
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1820.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1664.0,1.00%,F,T)

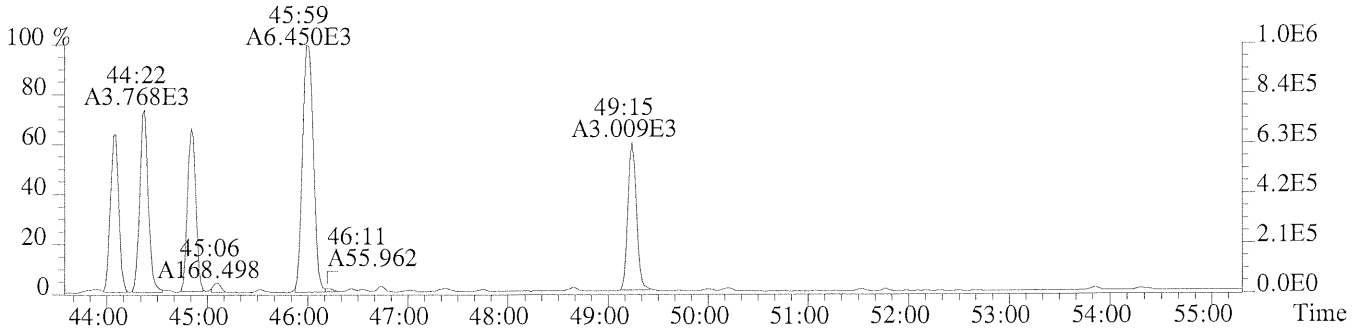


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

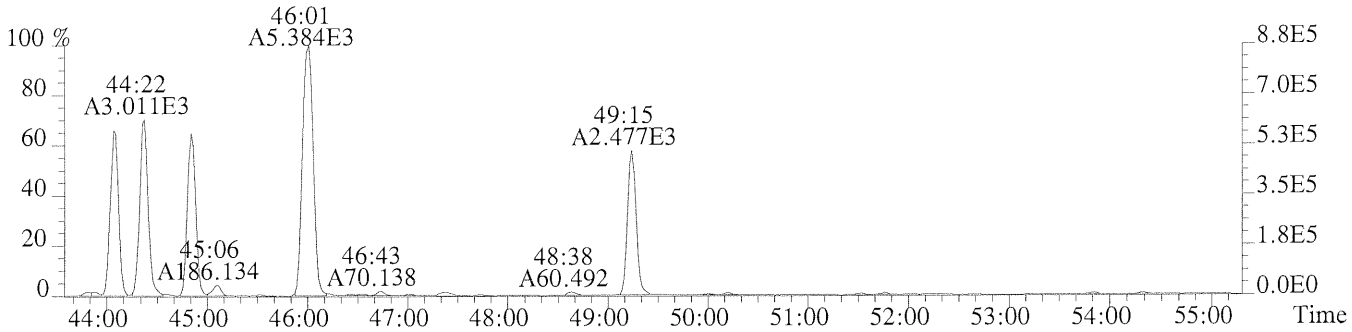


File:U142062 #1-581 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

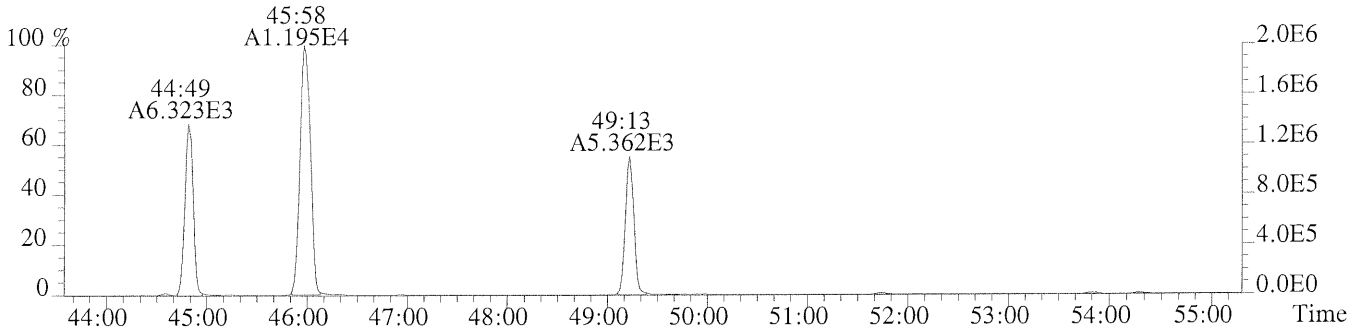
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17804.0,1.00%,F,T)



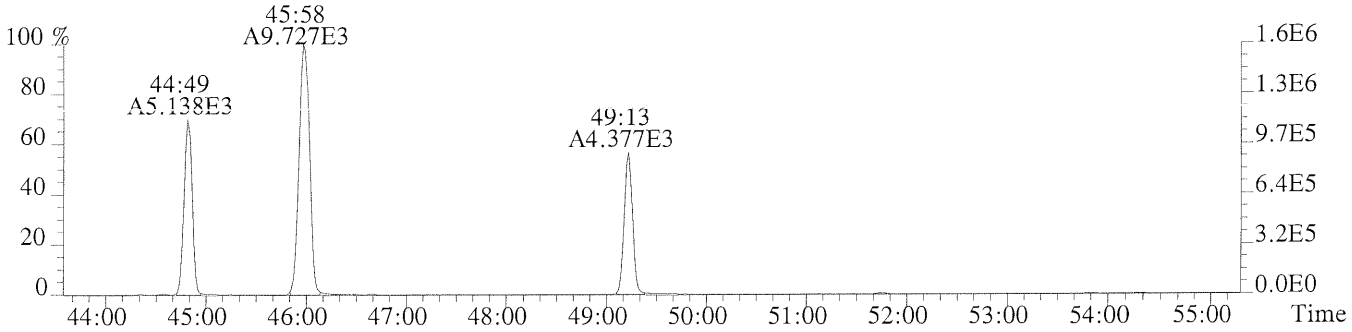
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1888.0,1.00%,F,T)



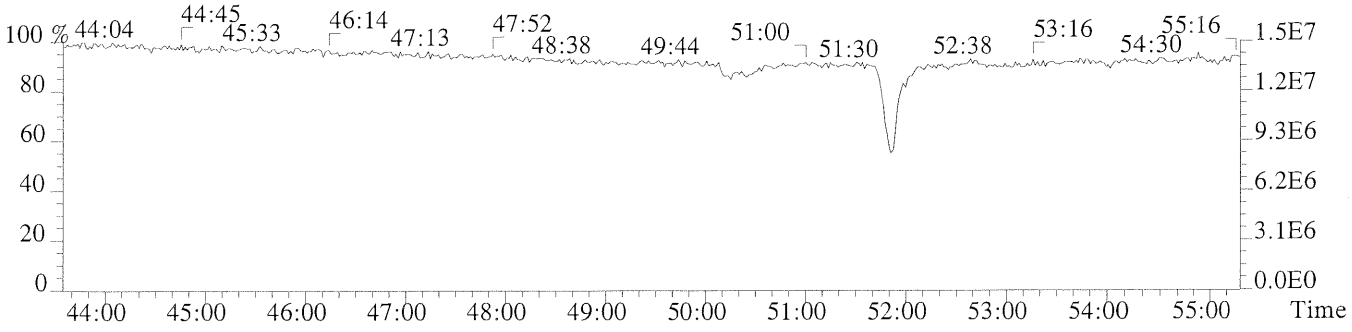
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1516.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)

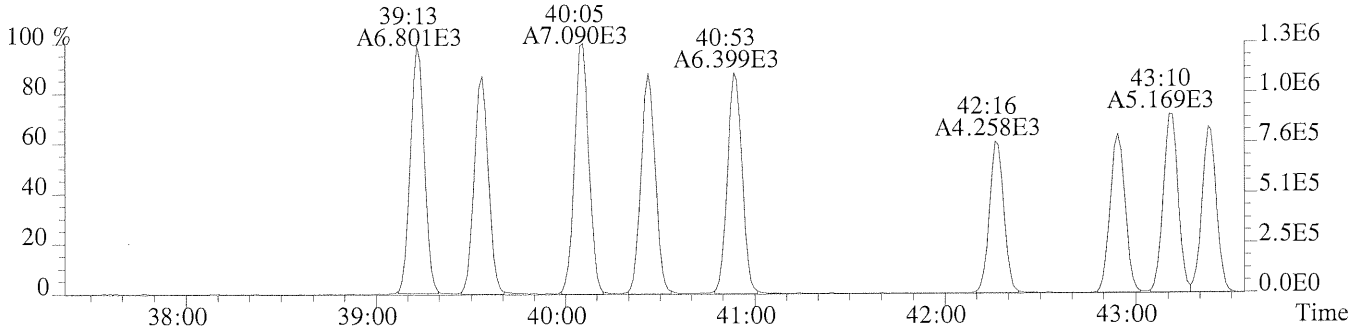


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

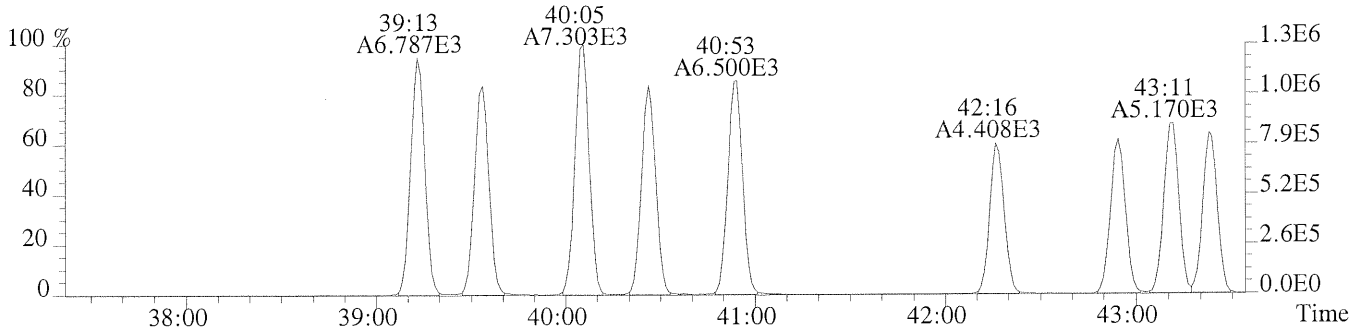


File:U142062 #1-397 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

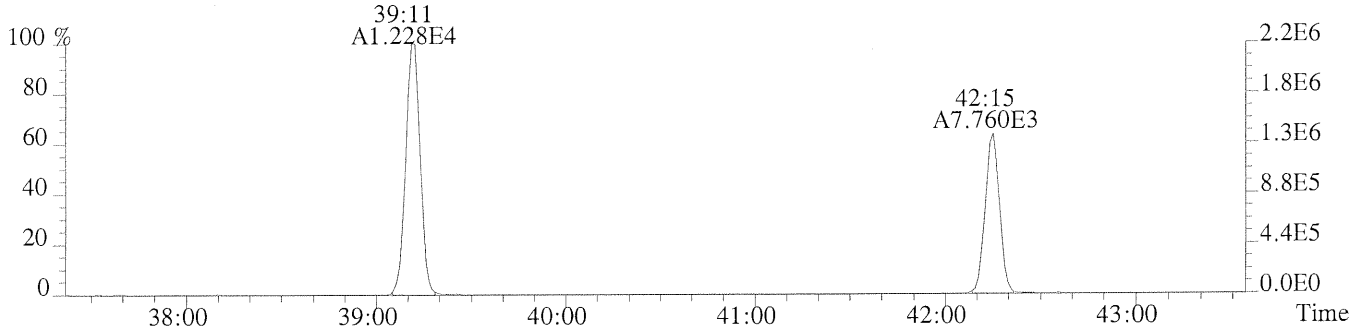
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1556.0,1.00%,F,T)



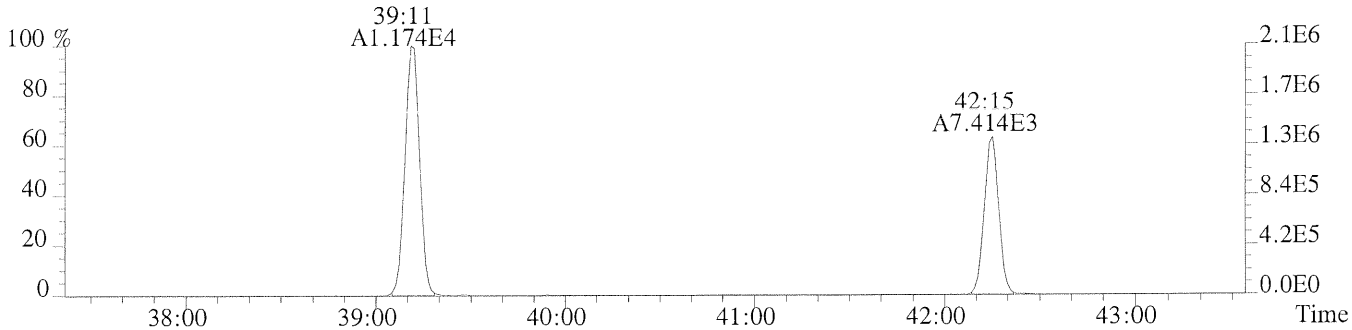
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



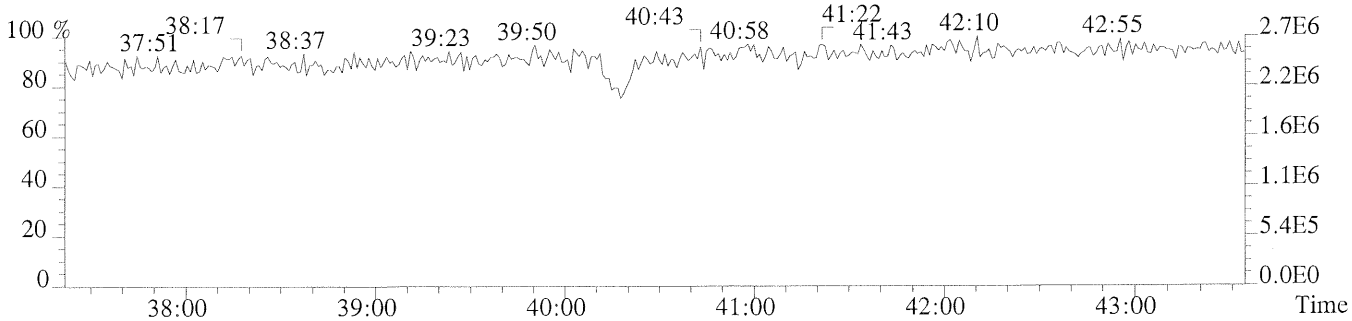
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1392.0,1.00%,F,T)



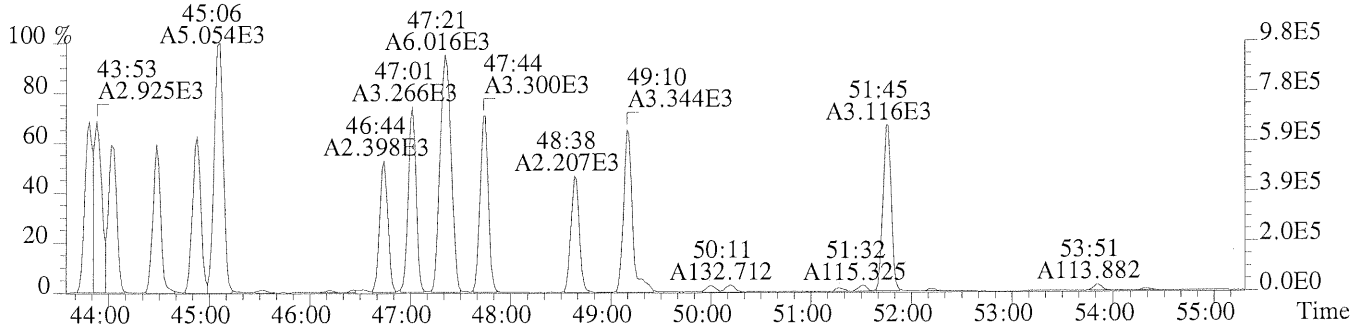
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1048.0,1.00%,F,T)



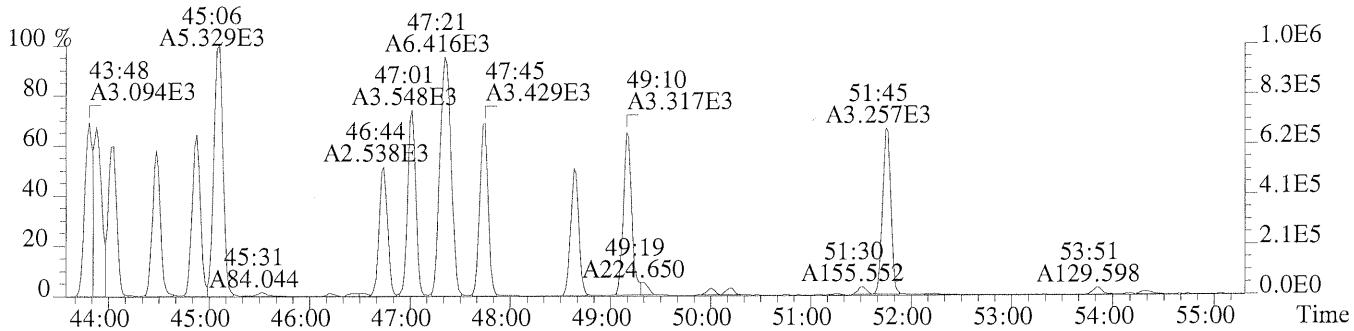
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



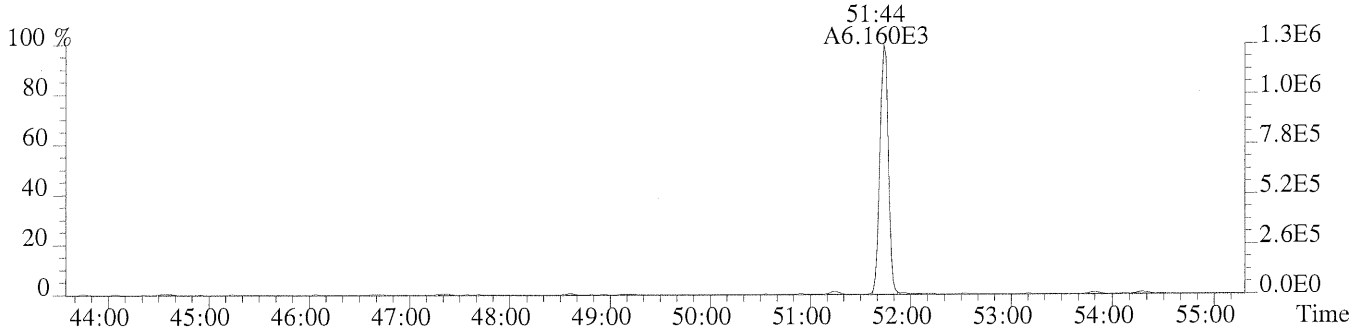
File:U142062 #1-581 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2304.0,1.00%,F,T)



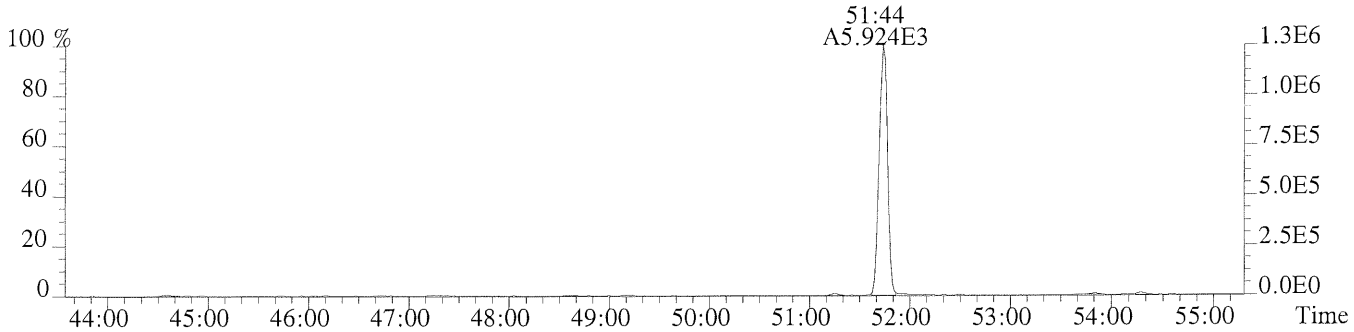
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1232.0,1.00%,F,T)



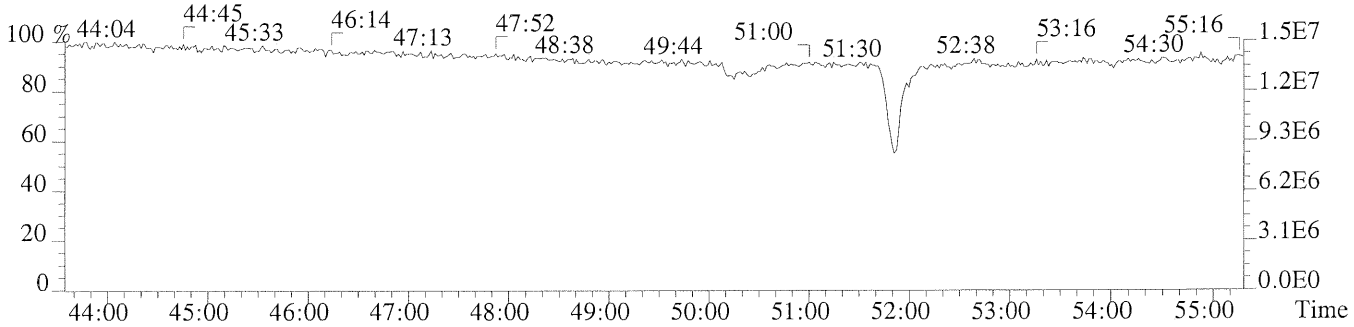
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1396.0,1.00%,F,T)



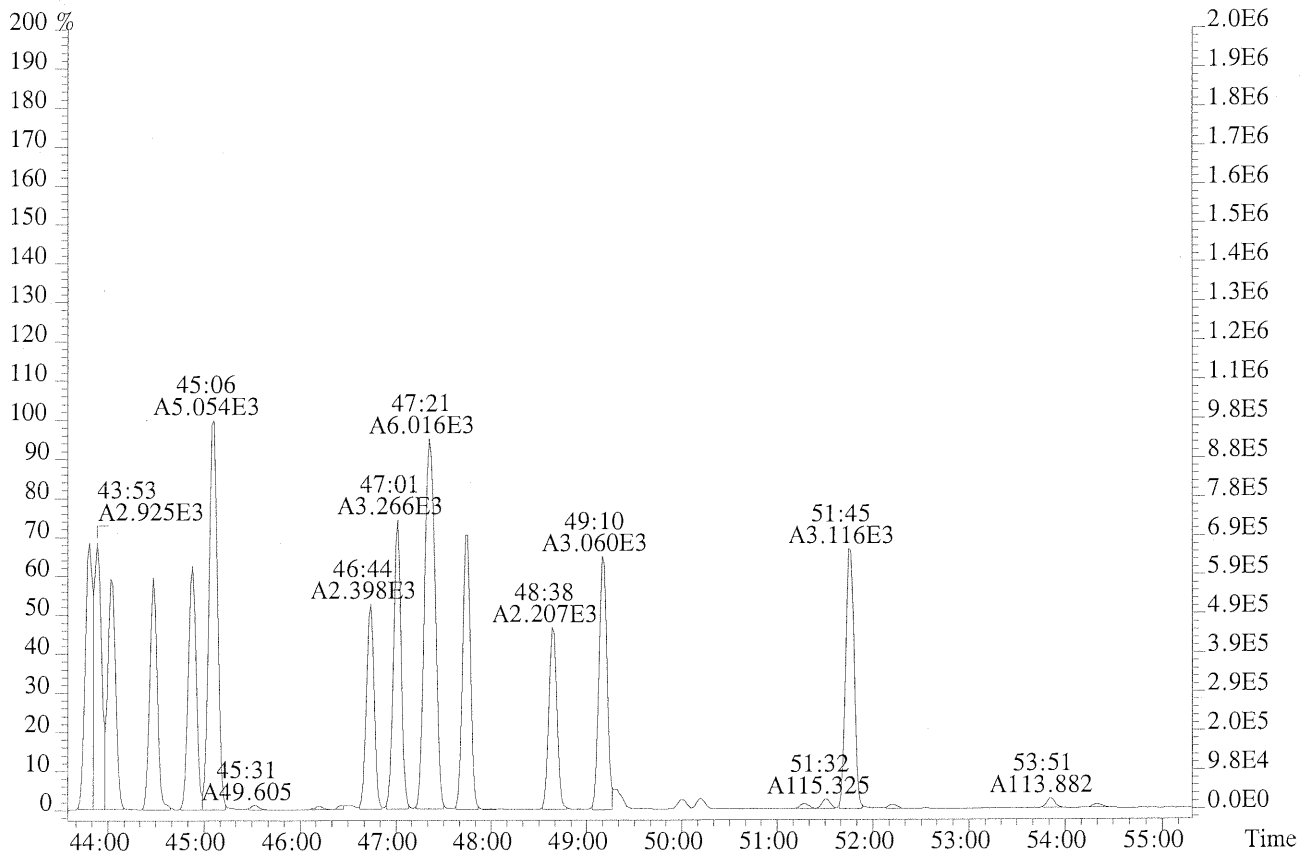
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1536.0,1.00%,F,T)



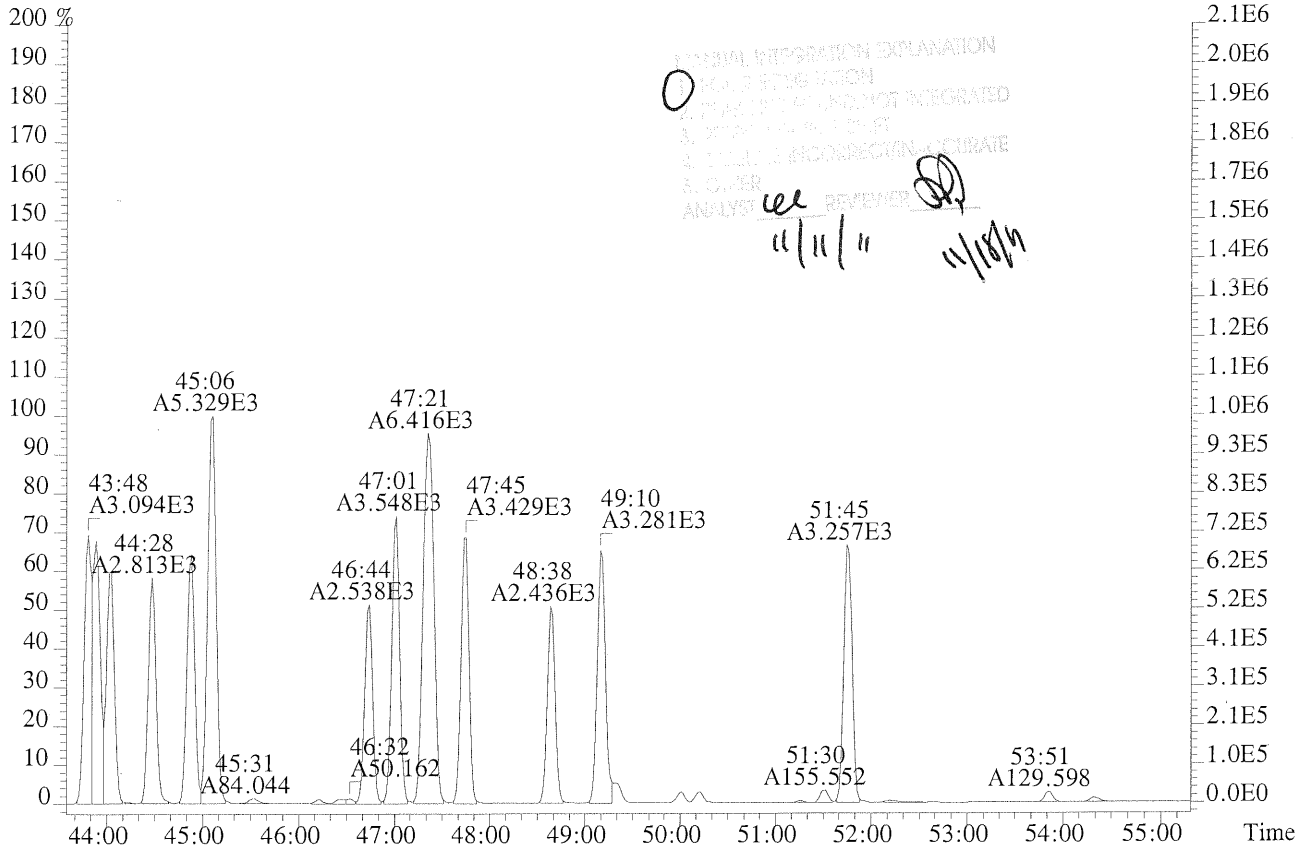
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142062 #1-581 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2304.0,1.00%,F,T)



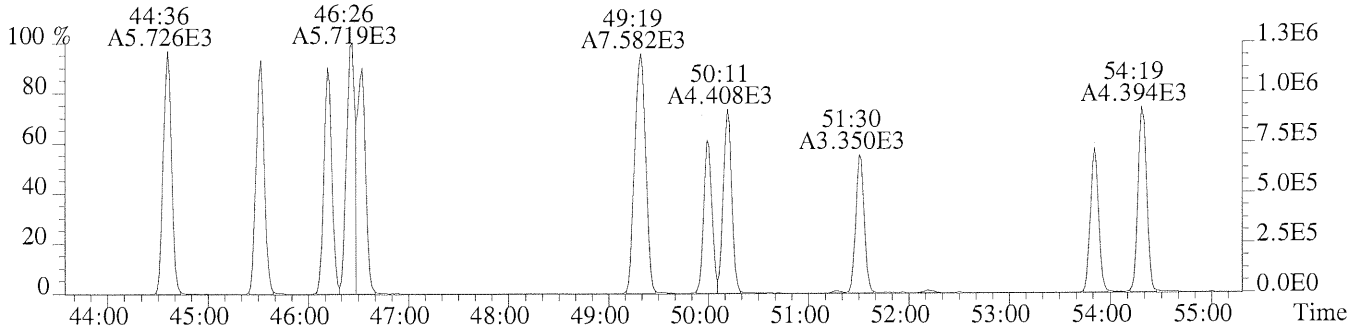
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1232.0,1.00%,F,T)



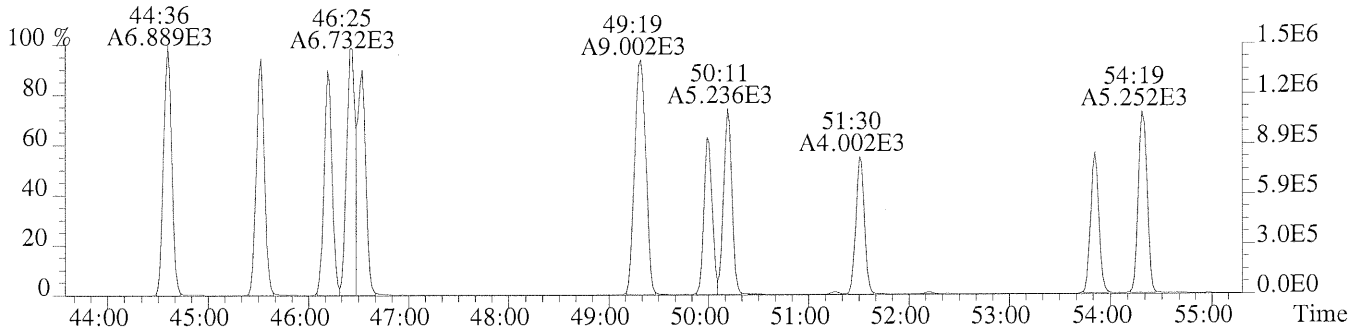
ANALYST 11/11/11 REVIEWER 11/18/11

File:U142062 #1-581 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

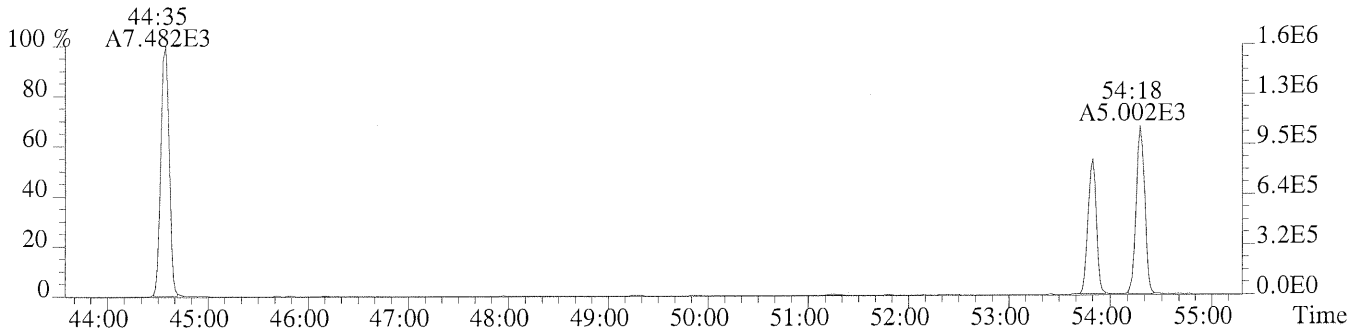
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



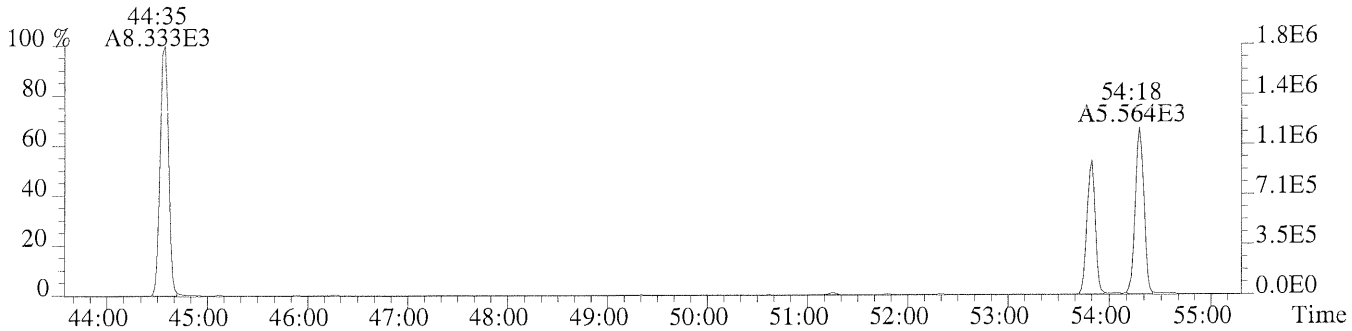
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,920.0,1.00%,F,T)



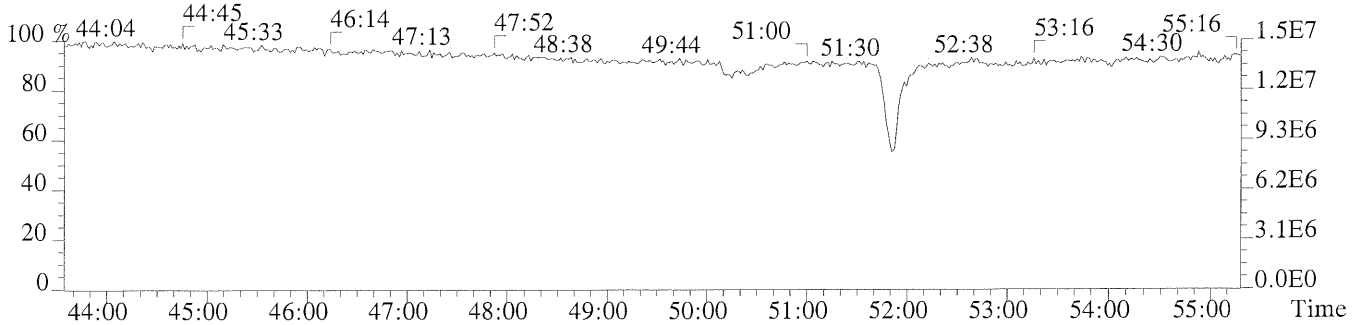
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1480.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)

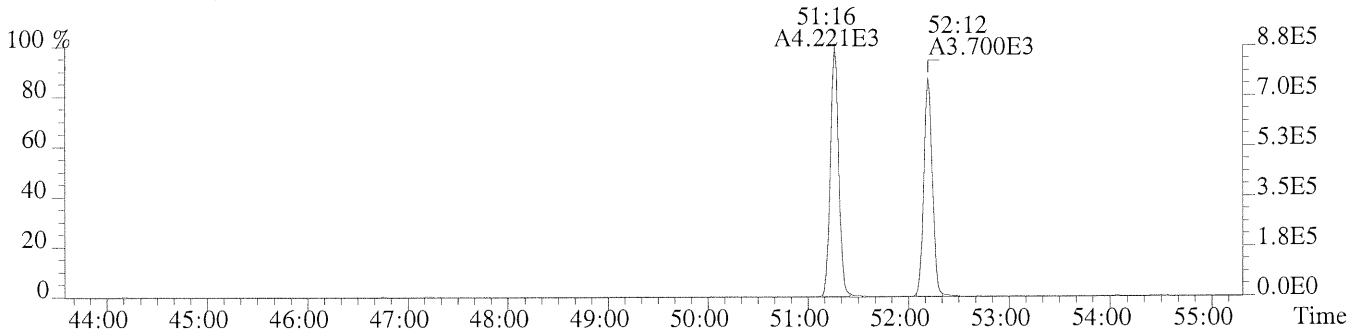


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

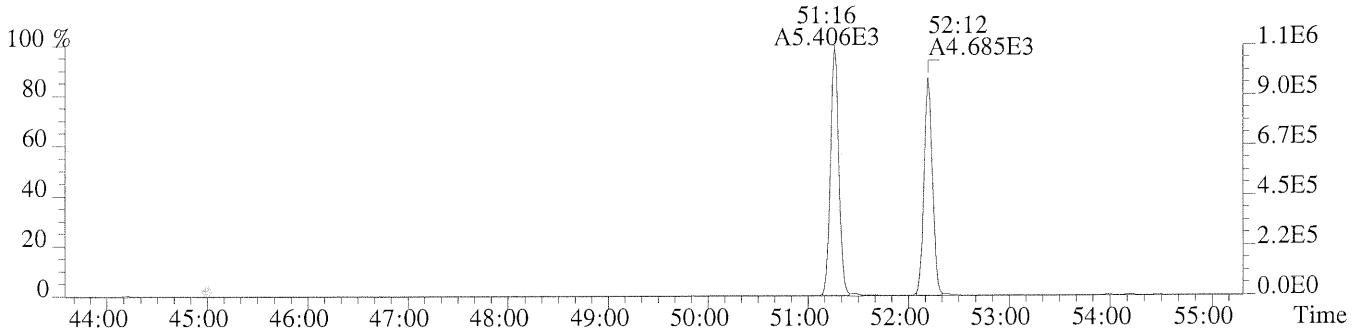


File:U142062 #1-581 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

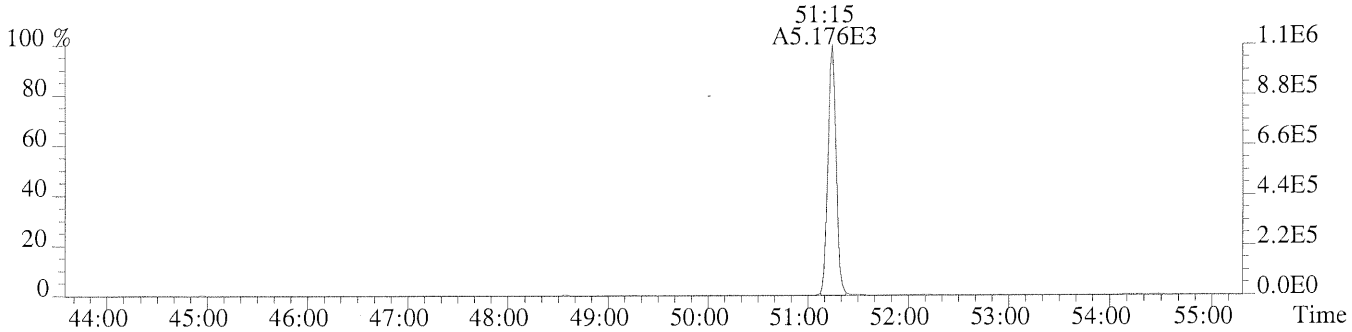
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,660.0,1.00%,F,T)



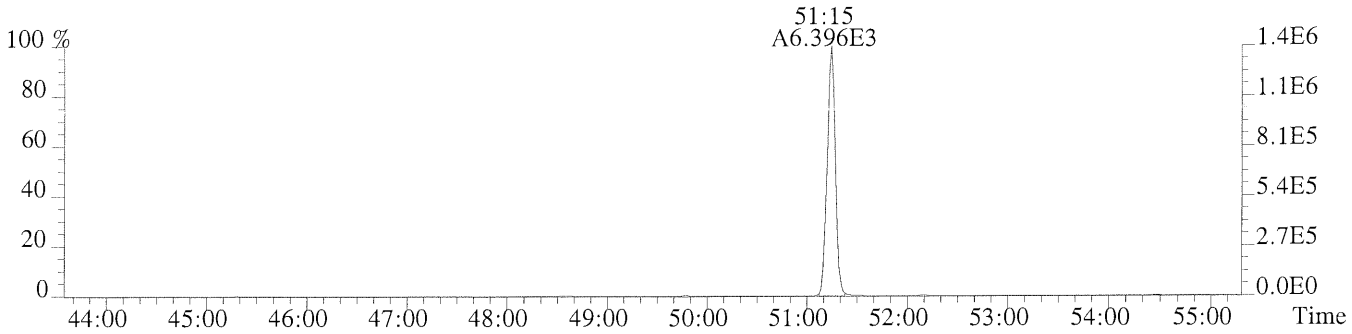
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,840.0,1.00%,F,T)



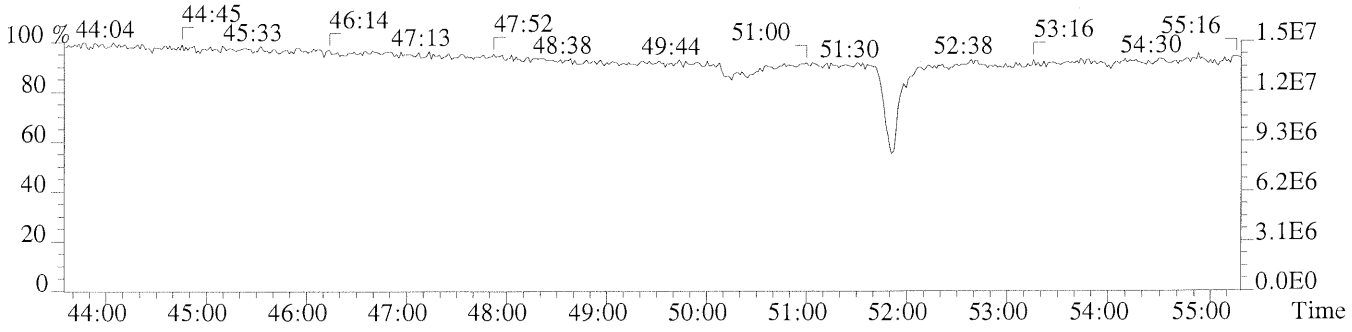
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,736.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)

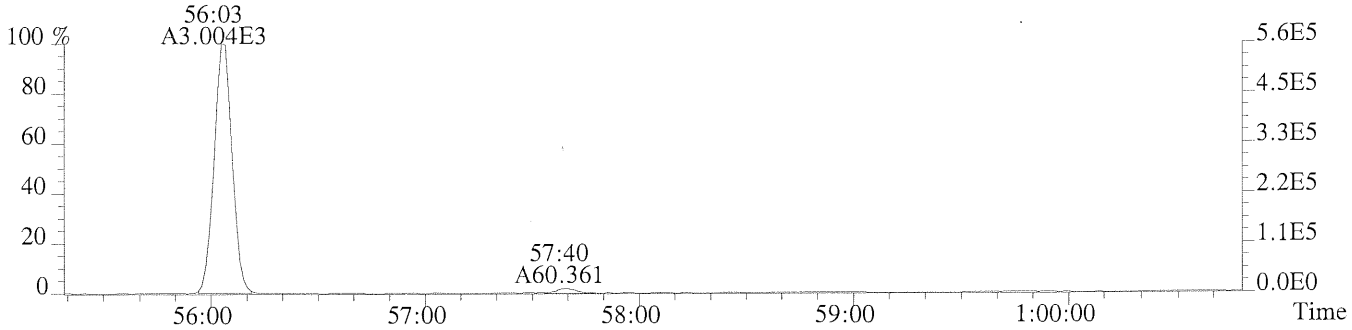


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

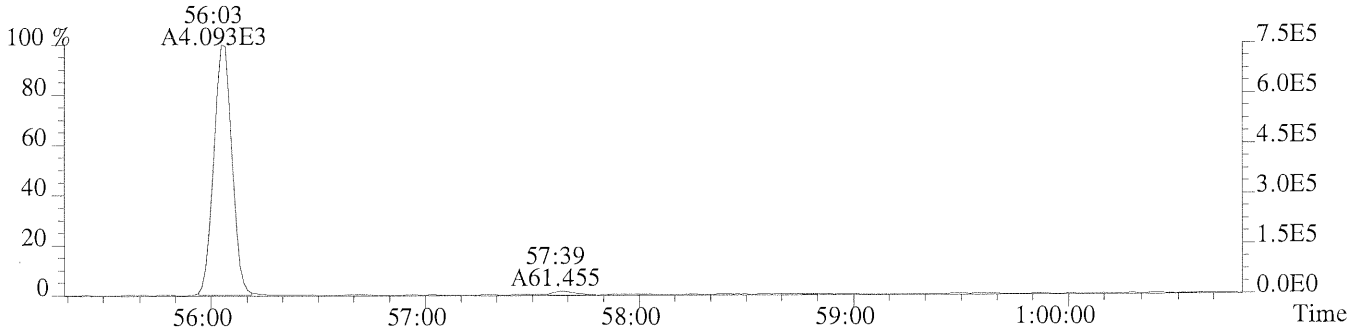


File:U142062 #1-310 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

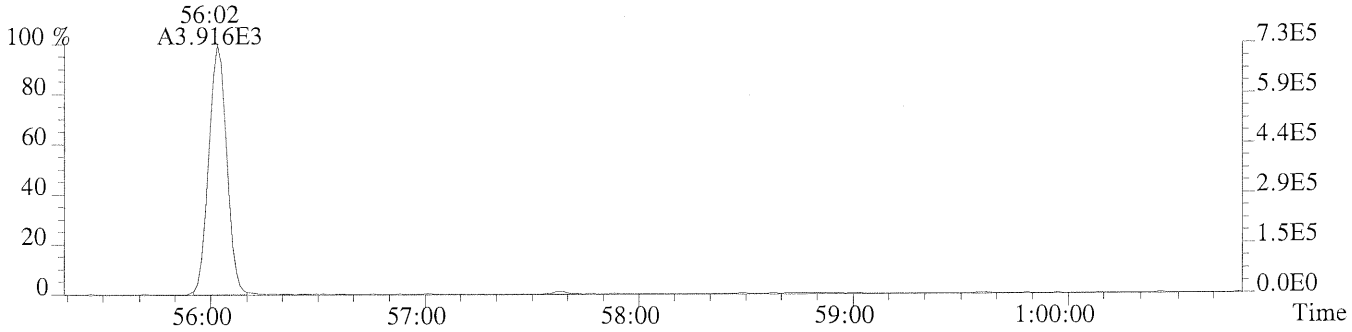
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



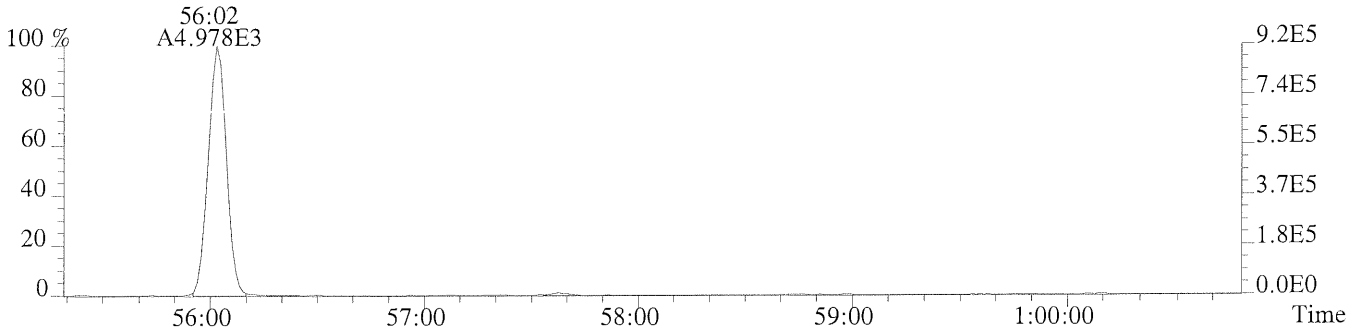
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1168.0,1.00%,F,T)



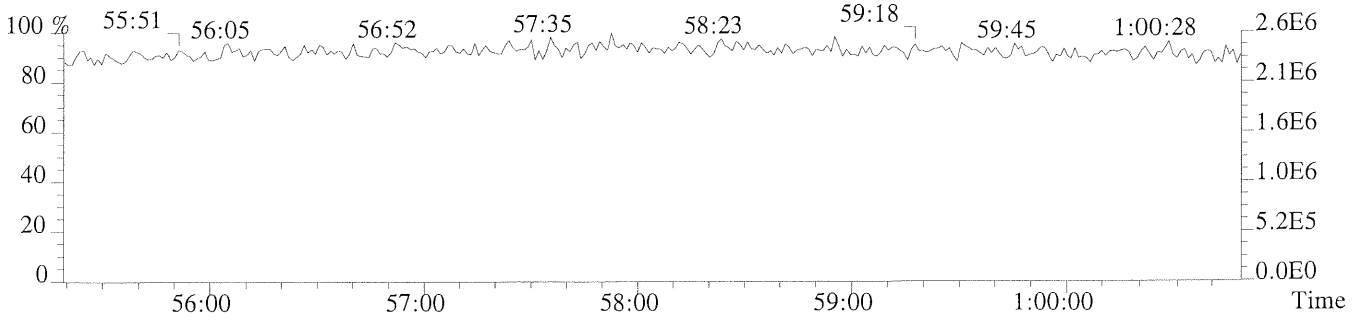
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,928.0,1.00%,F,T)



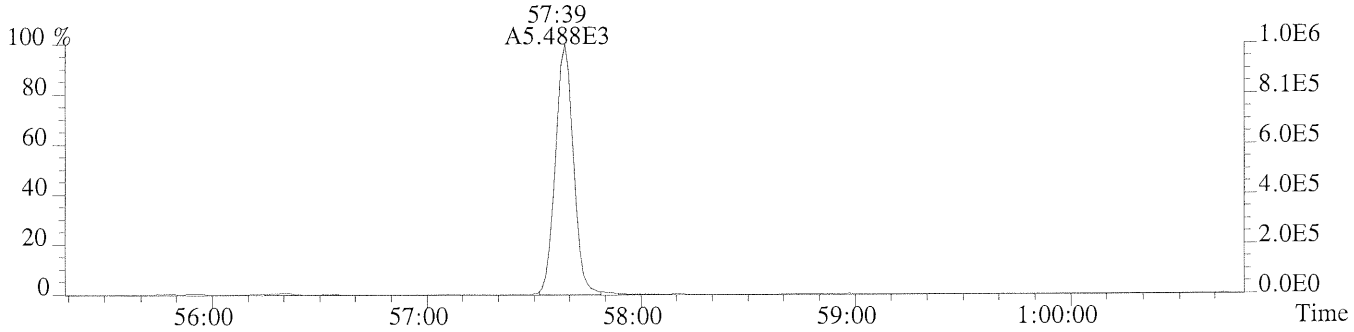
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1284.0,1.00%,F,T)



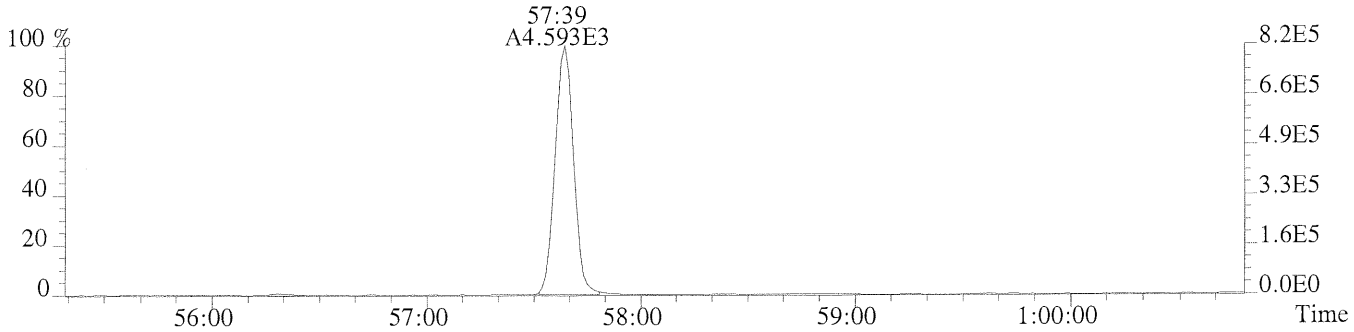
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



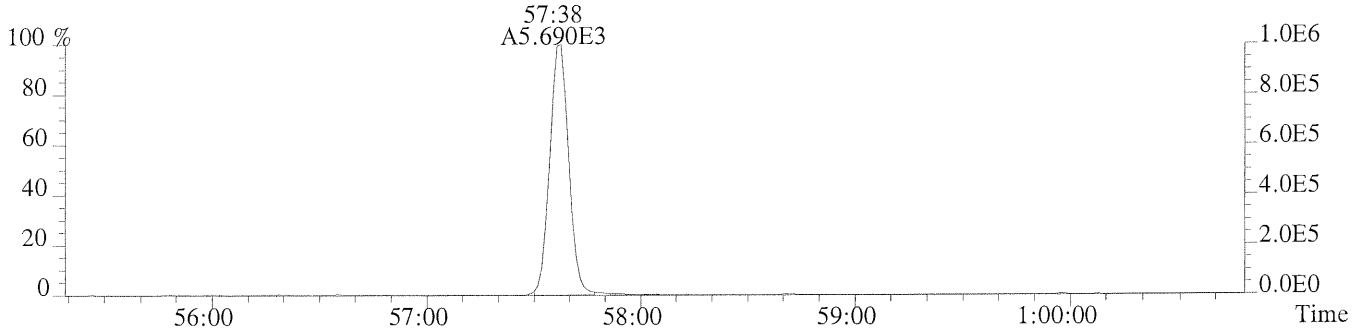
File:U142062 #1-310 Acq: 8-NOV-2011 05:31:30 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1020.0,1.00%,F,T)



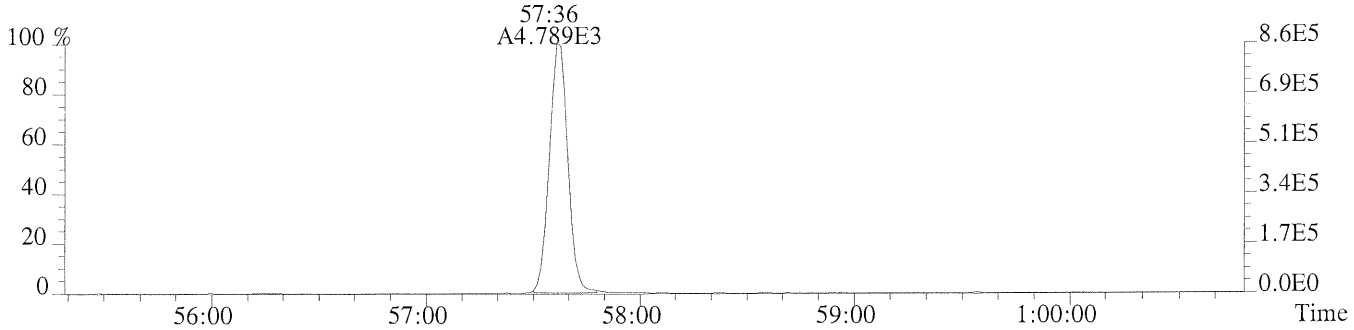
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1444.0,1.00%,F,T)



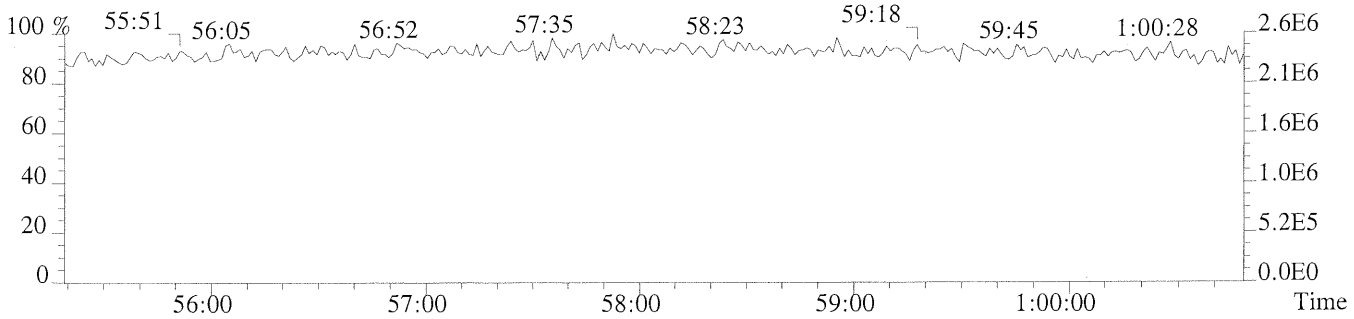
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,748.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



FORM 4A
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142063 Analysis Date: 8-NOV-11 Time: 06:56:35

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2-MoCB	M/M+2	3.06	2.66-3.60	44.0	35.0 - 65.0
4-MoCB	M/M+2	2.99	2.66-3.60	45.5	35.0 - 65.0
22'-DiCB	M/M+2	1.60	1.33-1.79	53.4	35.0 - 65.0
44'-DiCB	M/M+2	1.53	1.33-1.79	45.4	35.0 - 65.0
22'6'-TrCB	M/M+2	1.00	0.88-1.20	52.0	35.0 - 65.0
344'-TrCB	M/M+2	1.03	0.88-1.20	45.4	35.0 - 65.0
22'66'-TeCB	M/M+2	0.75	0.65-0.89	57.2	35.0 - 65.0
344'5-TeCB	M/M+2	0.78	0.65-0.89	47.2	35.0 - 65.0
33'44'-TeCB	M/M+2	0.80	0.65-0.89	48.6	35.0 - 65.0
22'466'-PeCB	M+2/M+4	1.57	1.32-1.78	51.3	35.0 - 65.0
2'344'5-PeCB	M+2/M+4	1.53	1.32-1.78	46.7	35.0 - 65.0
23'44'5-PeCB	M+2/M+4	1.59	1.32-1.78	45.4	35.0 - 65.0
2344'5-PeCB	M+2/M+4	1.62	1.32-1.78	48.3	35.0 - 65.0
233'44'-PeCB	M+2/M+4	1.55	1.32-1.78	47.0	35.0 - 65.0
33'44'5-PeCB	M+2/M+4	1.59	1.32-1.78	48.3	35.0 - 65.0
22'44'66'-HxCB	M+2/M+4	1.14	1.05-1.43	51.6	35.0 - 65.0
23'44'55'-HxCB	M+2/M+4	1.21	1.05-1.43	46.7	35.0 - 65.0
233'44'5-HxCB	M+2/M+4	1.19	1.05-1.43	92.0	70.0 -130.0
33'44'55'-HxCB	M+2/M+4	1.22	1.05-1.43	48.6	35.0 - 65.0
22'34'566'-HpCB	M+2/M+4	0.94	0.89-1.21	52.0	35.0 - 65.0
233'44'55'-HpCB	M+2/M+4	0.96	0.89-1.21	51.6	35.0 - 65.0
22'33'55'66'-OcCB	M+2/M+4	0.84	0.76-1.02	54.3	35.0 - 65.0
233'44'55'6-OcCB	M+2/M+4	0.85	0.76-1.02	52.8	35.0 - 65.0
22'33'4'55'66'-NoCB	M+2/M+4	0.76	0.65-0.89	56.8	35.0 - 65.0
22'33'44'55'6-NoCB	M+2/M+4	0.69	0.65-0.89	49.1	35.0 - 65.0
DeCB	M+4/M+6	1.20	0.99-1.33	53.9	35.0 - 65.0

(1) See Table 7, Method 1668A, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

(3) Contract-required concentration range as specified in Table 6, Method 1668A, under VER.

SP1668F4A

FORM 4B
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142063 Analysis Date: 8-NOV-11 Time: 06:56:35

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
LABELED COMPOUNDS					
13C-2-MoCB	M/M+2	2.94	2.66-3.60	104.5	50.0 - 150.0
13C-4-MoCB	M/M+2	2.96	2.66-3.60	108.9	50.0 - 150.0
13C-22'-DiCB	M/M+2	1.54	1.33-1.79	105.2	50.0 - 150.0
13C-44'-DiCB	M/M+2	1.48	1.33-1.79	109.0	50.0 - 150.0
13C-22'6'-TrCB	M/M+2	1.05	0.88-1.20	119.3	50.0 - 150.0
13C-344'-TrCB	M/M+2	1.02	0.88-1.20	86.3	50.0 - 150.0
13C-22'66'-TeCB	M/M+2	0.78	0.65-0.89	78.5	50.0 - 150.0
13C-344'5-TeCB	M/M+2	0.76	0.65-0.89	87.4	50.0 - 150.0
13C-33'44'-TeCB	M/M+2	0.78	0.65-0.89	83.5	50.0 - 150.0
13C-22'466'-PeCB	M+2/M+4	1.53	1.32-1.78	89.6	50.0 - 150.0
13C-2'344'5-PeCB	M+2/M+4	1.52	1.32-1.78	81.7	50.0 - 150.0
13C-23'44'5-PeCB	M+2/M+4	1.51	1.32-1.78	82.7	50.0 - 150.0
13C-2344'5-PeCB	M+2/M+4	1.52	1.32-1.78	77.1	50.0 - 150.0
13C-233'44'-PeCB	M+2/M+4	1.55	1.32-1.78	80.4	50.0 - 150.0
13C-33'44'5-PeCB	M+2/M+4	1.55	1.32-1.78	85.6	50.0 - 150.0
13C-22'44'66'-HxCB	M+2/M+4	1.23	1.05-1.43	86.2	50.0 - 150.0
13C-23'44'55'-HxCB	M+2/M+4	1.23	1.05-1.43	72.9	50.0 - 150.0
13C-233'44'5'-HxCB	M+2/M+4	1.22	1.05-1.43	152.0	100.0 - 300.0
13C-33'44'55'-HxCB	M+2/M+4	1.25	1.05-1.43	74.1	50.0 - 150.0
13C-22'34'566'-HpCB	M+2/M+4	1.05	0.89-1.21	111.7	50.0 - 150.0
13C-233'44'55'-HpCB	M+2/M+4	1.05	0.89-1.21	104.0	50.0 - 150.0
13C-22'33'55'66'-OcCB	M+2/M+4	0.91	0.76-1.02	98.1	50.0 - 150.0
13C-233'44'55'6-OcCB	M+2/M+4	0.90	0.76-1.02	103.2	50.0 - 150.0
13C-22'33'4'55'66'-NoCB	M+2/M+4	0.77	0.65-0.89	97.3	50.0 - 150.0
13C-22'33'44'55'6-NoCB	M+2/M+4	0.76	0.65-0.89	101.2	50.0 - 150.0
13C-DeCB	M+4/M+6	1.21	0.99-1.33	92.9	50.0 - 150.0
CLEANUP STANDARDS					
13C-244'-TrCB	M/M+2	1.00	0.88-1.20	83.7	50.0 - 150.0
13C-233'55'-PeCB	M+2/M+4	1.59	1.32-1.78	96.8	50.0 - 150.0
13C-22'33'55'6-HpCB	M+2/M+4	1.05	0.89-1.21	87.4	50.0 - 150.0

(1) See Table 7, Method 1668A, for m/z specifications.
(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.
(3) Contract-required concentration range, as specified in Table 6, Method 1668A, under VER.

SP1668F4B

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
CCAL CS3

Run #7 Filename U142063 Samp: 1 Inj: 1 Acquired: 8-NOV-11 06:56:35
Processed: 11-NOV-11 17:17:18 Sample ID: CCAL CS3

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1	1	2-MoCB	13:21	1.047e+04	3.428e+03	3.06	yes	no
2	3	4-MoCB	15:37	1.043e+04	3.487e+03	2.99	yes	no
3	4	22'-DiCB	15:52	7.160e+03	4.464e+03	1.60	yes	no
4	15	44'-DiCB	21:54	6.506e+03	4.240e+03	1.53	yes	no
5	19	22'6'-TrCB	19:03	4.568e+03	4.564e+03	1.00	yes	no
6	37	344'-TrCB	29:02	5.235e+03	5.103e+03	1.03	yes	no
7	54	22'66'-TeCB	22:11	4.669e+03	6.208e+03	0.75	yes	no
8	81	344'5-TeCB	35:49	3.750e+03	4.809e+03	0.78	yes	no
9	77	33'44'-TeCB	36:23	3.614e+03	4.514e+03	0.80	yes	no
10	104	22'466'-PeCB	27:46	7.600e+03	4.828e+03	1.57	yes	no
11	123	2'344'5-PeCB	38:22	4.551e+03	2.975e+03	1.53	yes	no
12	118	23'44'5-PeCB	38:42	4.644e+03	2.928e+03	1.59	yes	no
13	114	2344'5-PeCB	39:14	4.611e+03	2.843e+03	1.62	yes	no
14	105	233'44'-PeCB	39:53	4.416e+03	2.858e+03	1.55	yes	no
15	126	33'44'5-PeCB	42:59	4.108e+03	2.590e+03	1.59	yes	no
16	155	22'44'66'-HxCB	33:29	6.527e+03	5.723e+03	1.14	yes	no
17	167	23'44'55'-HxCB	44:50	2.820e+03	2.331e+03	1.21	yes	no
18	156/7	233'44'5-HxCB	46:01	5.313e+03	4.475e+03	1.19	yes	no
19	169	33'44'55'-HxCB	49:14	2.392e+03	1.967e+03	1.22	yes	no
20	188	22'34'566'-HpCB	39:13	5.545e+03	5.873e+03	0.94	yes	no
21	189	233'44'55'-HpCB	51:45	2.492e+03	2.604e+03	0.96	yes	no
22	202	22'33'55'66'-OcCB	44:36	3.186e+03	3.800e+03	0.84	yes	no
23	205	233'44'55'6-OcCB	54:19	2.554e+03	3.009e+03	0.85	yes	no
24	208	22'33'4'55'66'-NoCB	51:16	2.367e+03	3.118e+03	0.76	yes	no
25	206	22'33'44'55'6-NoCB	56:04	1.591e+03	2.298e+03	0.69	yes	no
26	209	DeCB	57:39	3.205e+03	2.682e+03	1.20	yes	no
27	1L	13C-2-MoCB	13:20	2.199e+04	7.477e+03	2.94	yes	no
28	3L	13C-4-MoCB	15:36	2.207e+04	7.453e+03	2.96	yes	no
29	4L	13C-22'-DiCB	15:51	1.185e+04	7.684e+03	1.54	yes	no
30	15L	13C-44'-DiCB	21:53	1.445e+04	9.780e+03	1.48	yes	no
31	19L	13C-22'6'-TrCB	19:02	8.999e+03	8.540e+03	1.05	yes	no
32	37L	13C-344'-TrCB	28:60	1.056e+04	1.037e+04	1.02	yes	no
33	54L	13C-22'66'-TeCB	22:10	8.326e+03	1.064e+04	0.78	yes	no
34	81L	13C-344'5-TeCB	35:47	7.578e+03	9.967e+03	0.76	yes	no
35	77L	13C-33'44'-TeCB	36:21	7.354e+03	9.448e+03	0.78	yes	no
36	104L	13C-22'466'-PeCB	27:45	1.423e+04	9.290e+03	1.53	yes	no
37	123L	13C-2'344'5-PeCB	38:21	9.531e+03	6.285e+03	1.52	yes	no
38	118L	13C-23'44'5-PeCB	38:41	1.007e+04	6.659e+03	1.51	yes	no
39	114L	13C-2344'5-PeCB	39:13	9.394e+03	6.188e+03	1.52	yes	no
40	105L	13C-233'44'-PeCB	39:51	9.302e+03	6.013e+03	1.55	yes	no
41	126L	13C-33'44'5-PeCB	42:57	8.787e+03	5.656e+03	1.55	yes	no
42	155L	13C-22'44'66'-HxCB	33:27	1.324e+04	1.078e+04	1.23	yes	no
43	167L	13C-23'44'55'-HxCB	44:49	6.048e+03	4.899e+03	1.23	yes	no
44	156/7	13C-233'44'5'-HxCB	45:58	1.163e+04	9.530e+03	1.22	yes	no
45	169L	13C-33'44'55'-HxCB	49:13	5.027e+03	4.013e+03	1.25	yes	no
46	188L	13C-22'34'566'-HpCB	39:11	1.134e+04	1.084e+04	1.05	yes	no
47	189L	13C-233'44'55'-HpCB	51:44	5.870e+03	5.581e+03	1.05	yes	no
48	202L	13C-22'33'55'66'-OcCB	44:34	7.117e+03	7.795e+03	0.91	yes	no
49	205L	13C-233'44'55'6-OcCB	54:18	5.615e+03	6.241e+03	0.90	yes	no
50	208L	13C-22'33'4'55'66'-NoCB	51:14	4.767e+03	6.195e+03	0.77	yes	no
51	206L	13C-22'33'44'55'6-NoCB	56:02	3.679e+03	4.826e+03	0.76	yes	no
52	209L	13C-DeCB	57:38	6.697e+03	5.535e+03	1.21	yes	no

Filename U142063 Acquired: 8-NOV-11 06:56:35

53	28L	13C-244'-TrCB	24:57	1.232e+04	1.228e+04	1.00	yes	no
54	111L	13C-233'55'-PeCB	36:23	1.381e+04	8.710e+03	1.59	yes	no
55	178L	13C-22'33'55'6-HpCB	42:15	7.246e+03	6.919e+03	1.05	yes	no
56	9L	13C-2,5-DiCB	17:52	1.397e+04	9.142e+03	1.53	yes	no
57	52L	13C-22'55'-TeCB	26:47	9.259e+03	1.194e+04	0.78	yes	no
58	101L	13C-22'4'55'-PeCB	33:41	1.138e+04	7.414e+03	1.53	yes	no
59	138L	13C-22'3'44'5'-HxCB	41:48	9.445e+03	7.577e+03	1.25	yes	no
60	194L	13C-22'33'44'55'-OcCB	53:50	4.005e+03	4.421e+03	0.91	yes	no

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
Office(713)266-1599. Fax(713)266-0130

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
CCAL CS3

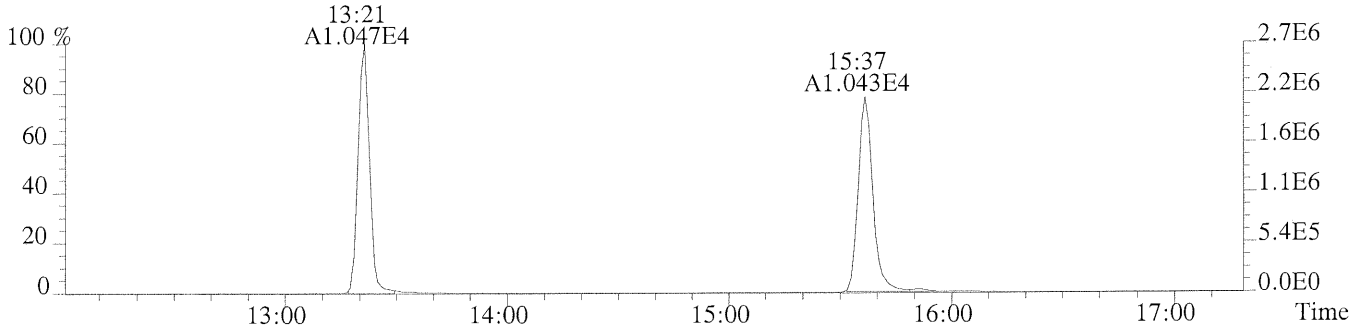
Run #7 Filename U142063 Samp: 1 Inj: 1 Acquired: 8-NOV-11 06:56:35
Processed: 11-NOV-11 17:17:181 LAB. ID: CCAL CS3

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	2.71e+06	1.68e+03	1.6e+03	8.79e+05	2.30e+03	3.8e+02
2	4-MoCB	2.13e+06	1.68e+03	1.3e+03	7.14e+05	2.30e+03	3.1e+02
3	22'-DiCB	1.57e+06	1.78e+03	8.8e+02	9.88e+05	7.54e+03	1.3e+02
4	44'-DiCB	1.11e+06	1.75e+03	6.4e+02	7.54e+05	9.87e+03	7.6e+01
5	22'6'-TrCB	9.96e+05	1.18e+03	8.4e+02	1.01e+06	1.16e+03	8.7e+02
6	344'-TrCB	8.33e+05	1.81e+03	4.6e+02	7.95e+05	1.26e+03	6.3e+02
7	22'66'-TeCB	9.60e+05	1.08e+03	8.9e+02	1.27e+06	1.04e+03	1.2e+03
8	344'5-TeCB	6.33e+05	7.68e+02	8.2e+02	8.20e+05	9.64e+02	8.5e+02
9	33'44'-TeCB	5.87e+05	7.68e+02	7.6e+02	7.41e+05	9.64e+02	7.7e+02
10	22'466'-PeCB	1.31e+06	1.01e+03	1.3e+03	8.60e+05	1.65e+03	5.2e+02
11	2'344'5-PeCB	7.87e+05	1.07e+03	7.4e+02	5.23e+05	1.67e+03	3.1e+02
12	23'44'5-PeCB	8.07e+05	1.07e+03	7.6e+02	5.26e+05	1.67e+03	3.1e+02
13	2344'5-PeCB	7.97e+05	1.07e+03	7.5e+02	5.08e+05	1.67e+03	3.0e+02
14	233'44'-PeCB	7.34e+05	1.07e+03	6.9e+02	4.83e+05	1.67e+03	2.9e+02
15	33'44'5-PeCB	6.50e+05	1.07e+03	6.1e+02	4.12e+05	1.67e+03	2.5e+02
16	22'44'66'-HxCB	1.18e+06	1.80e+03	6.6e+02	1.03e+06	1.46e+03	7.1e+02
17	23'44'55'-HxCB	5.83e+05	1.41e+03	4.1e+02	4.87e+05	9.24e+02	5.3e+02
18	233'44'5-HxCB	8.48e+05	1.41e+03	6.0e+02	7.16e+05	9.24e+02	7.8e+02
19	33'44'55'-HxCB	4.65e+05	1.41e+03	3.3e+02	3.78e+05	9.24e+02	4.1e+02
20	22'34'566'-HpCB	9.95e+05	1.41e+03	7.1e+02	1.05e+06	7.28e+02	1.4e+03
21	233'44'55'-HpCB	5.11e+05	1.61e+03	3.2e+02	5.27e+05	1.95e+03	2.7e+02
22	22'33'55'66'-OcCB	6.85e+05	9.76e+02	7.0e+02	8.00e+05	1.26e+03	6.3e+02
23	233'44'55'6-OcCB	5.18e+05	9.76e+02	5.3e+02	6.24e+05	1.26e+03	4.9e+02
24	22'33'4'55'66'-NoCB	4.92e+05	1.06e+03	4.6e+02	6.56e+05	1.24e+03	5.3e+02
25	22'33'44'55'6-NoCB	2.85e+05	9.80e+02	2.9e+02	4.23e+05	8.96e+02	4.7e+02
26	DeCB	5.85e+05	7.16e+02	8.2e+02	4.86e+05	8.00e+02	6.1e+02
27	13C-2-MoCB	5.78e+06	2.22e+03	2.6e+03	1.93e+06	6.44e+03	3.0e+02
28	13C-4-MoCB	4.49e+06	2.22e+03	2.0e+03	1.53e+06	6.44e+03	2.4e+02
29	13C-22'-DiCB	2.60e+06	1.86e+03	1.4e+03	1.67e+06	1.71e+03	9.8e+02
30	13C-44'-DiCB	2.53e+06	1.20e+03	2.1e+03	1.71e+06	1.12e+03	1.5e+03
31	13C-22'6'-TrCB	1.96e+06	1.11e+04	1.8e+02	1.85e+06	7.05e+03	2.6e+02
32	13C-344'-TrCB	1.63e+06	8.33e+03	2.0e+02	1.63e+06	9.69e+03	1.7e+02
33	13C-22'66'-TeCB	1.66e+06	3.71e+03	4.5e+02	2.13e+06	1.28e+03	1.7e+03
34	13C-344'5-TeCB	1.27e+06	2.11e+03	6.0e+02	1.67e+06	8.12e+02	2.1e+03
35	13C-33'44'-TeCB	1.19e+06	2.11e+03	5.6e+02	1.53e+06	8.12e+02	1.9e+03
36	13C-22'466'-PeCB	2.53e+06	1.17e+03	2.2e+03	1.63e+06	1.06e+03	1.5e+03
37	13C-2'344'5-PeCB	1.69e+06	3.74e+03	4.5e+02	1.11e+06	3.14e+03	3.5e+02
38	13C-23'44'5-PeCB	1.81e+06	3.74e+03	4.8e+02	1.18e+06	3.14e+03	3.8e+02
39	13C-2344'5-PeCB	1.65e+06	3.74e+03	4.4e+02	1.10e+06	3.14e+03	3.5e+02
40	13C-233'44'-PeCB	1.53e+06	3.74e+03	4.1e+02	9.99e+05	3.14e+03	3.2e+02
41	13C-33'44'5-PeCB	1.40e+06	3.74e+03	3.7e+02	9.00e+05	3.14e+03	2.9e+02
42	13C-22'44'66'-HxCB	2.44e+06	6.04e+02	4.0e+03	1.98e+06	1.40e+03	1.4e+03
43	13C-23'44'55'-HxCB	1.29e+06	1.07e+03	1.2e+03	1.04e+06	1.59e+03	6.5e+02
44	13C-233'44'5'-HxCB	1.86e+06	1.07e+03	1.7e+03	1.51e+06	1.59e+03	9.5e+02
45	13C-33'44'55'-HxCB	9.95e+05	1.07e+03	9.3e+02	7.89e+05	1.59e+03	5.0e+02
46	13C-22'34'566'-HpCB	1.99e+06	1.09e+03	1.8e+03	1.91e+06	6.24e+02	3.1e+03
47	13C-233'44'55'-HpCB	1.19e+06	1.25e+03	9.5e+02	1.14e+06	1.28e+03	8.9e+02
48	13C-22'33'55'66'-OcCB	1.52e+06	1.28e+03	1.2e+03	1.65e+06	9.88e+02	1.7e+03
49	13C-233'44'55'6-OcCB	1.15e+06	1.28e+03	9.0e+02	1.28e+06	9.88e+02	1.3e+03
50	13C-22'33'4'55'66'-NoCB	9.89e+05	1.22e+03	8.1e+02	1.29e+06	1.07e+03	1.2e+03
51	13C-22'33'44'55'6-NoCB	6.74e+05	7.72e+02	8.7e+02	8.94e+05	1.10e+03	8.1e+02
52	13C-DeCB	1.18e+06	8.80e+02	1.3e+03	9.91e+05	8.32e+02	1.2e+03

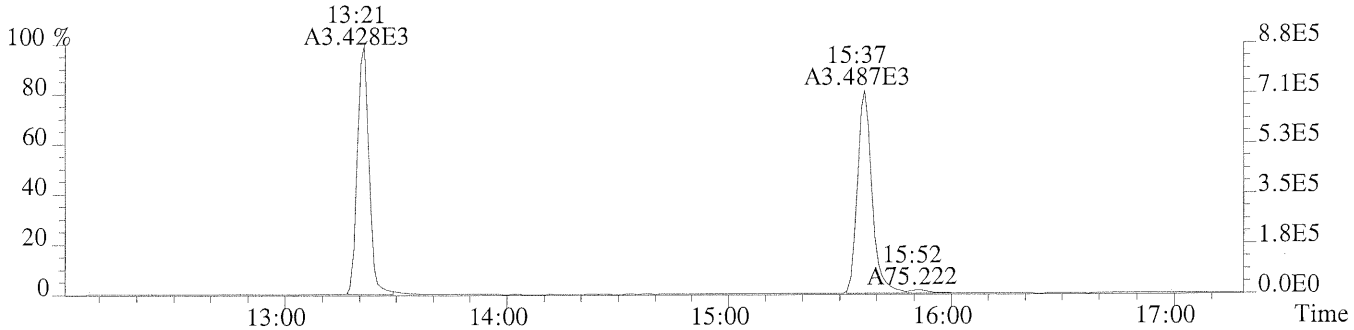
53	13C-244'-TrCB	2.02e+06	8.33e+03	2.4e+02	2.08e+06	9.69e+03	2.1e+02
54	13C-233'55'-PeCB	2.44e+06	9.44e+02	2.6e+03	1.55e+06	1.30e+03	1.2e+03
55	13C-22'33'55'6-HpCB	1.28e+06	1.09e+03	1.2e+03	1.23e+06	6.24e+02	2.0e+03
56	13C-2,5-DiCB	2.99e+06	1.20e+03	2.5e+03	1.96e+06	1.12e+03	1.7e+03
57	13C-22'55'-TeCB	1.61e+06	2.42e+03	6.7e+02	2.06e+06	1.25e+03	1.6e+03
58	13C-22'4'55'-PeCB	2.04e+06	9.44e+02	2.2e+03	1.35e+06	1.30e+03	1.0e+03
59	13C-22'3'44'5'-HxCB	1.66e+06	9.72e+02	1.7e+03	1.34e+06	1.18e+03	1.1e+03
60	13C-22'33'44'55'-OcCB	8.16e+05	1.28e+03	6.4e+02	9.09e+05	9.88e+02	9.2e+02

File:U142063 #1-341 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

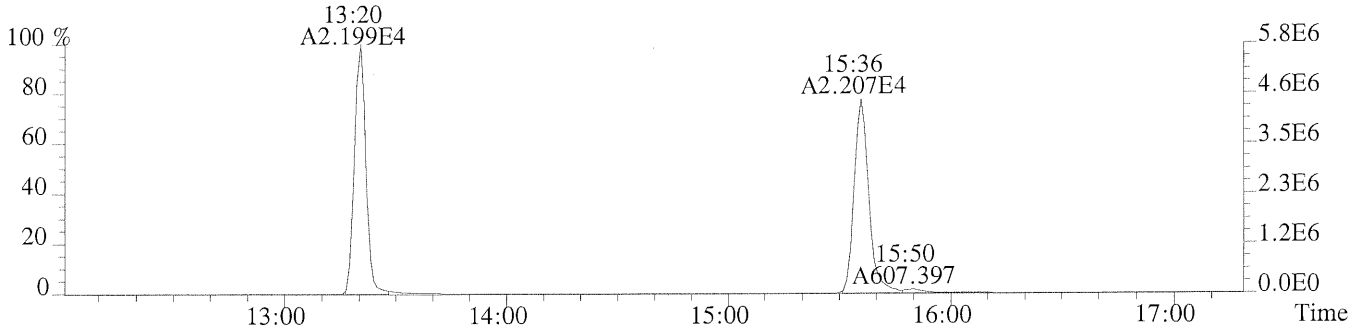
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1676.0,1.00%,F,T)



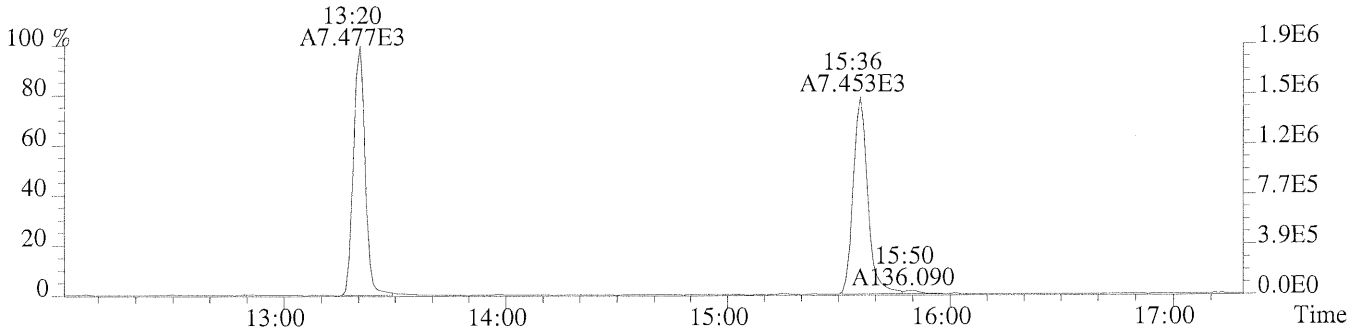
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2296.0,1.00%,F,T)



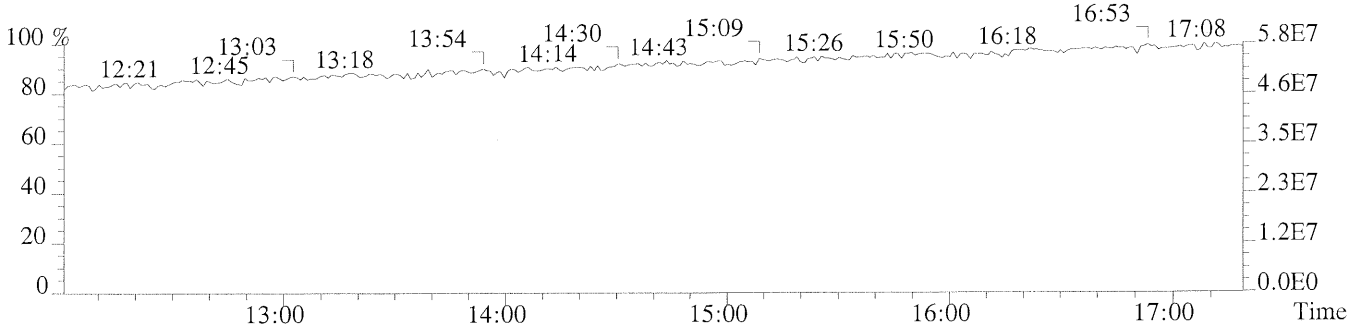
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2220.0,1.00%,F,T)



202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6444.0,1.00%,F,T)

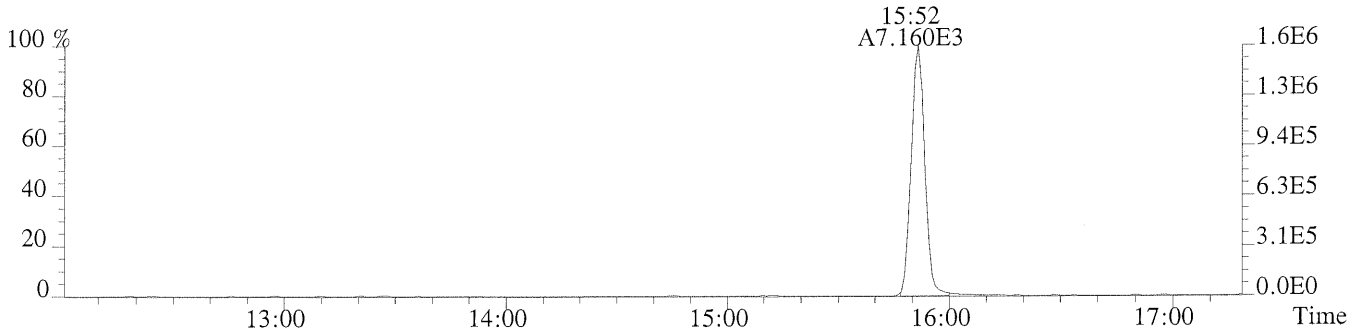


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

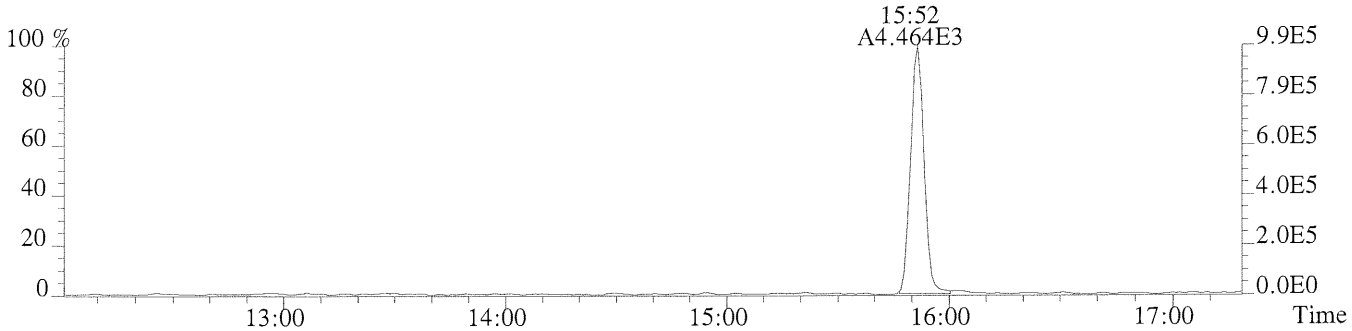


File:U142063 #1-341 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

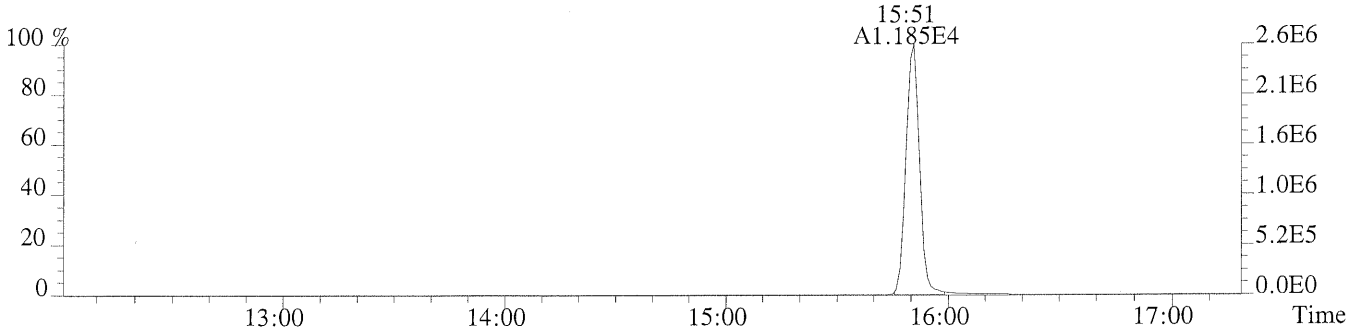
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1780.0,1.00%,F,T)



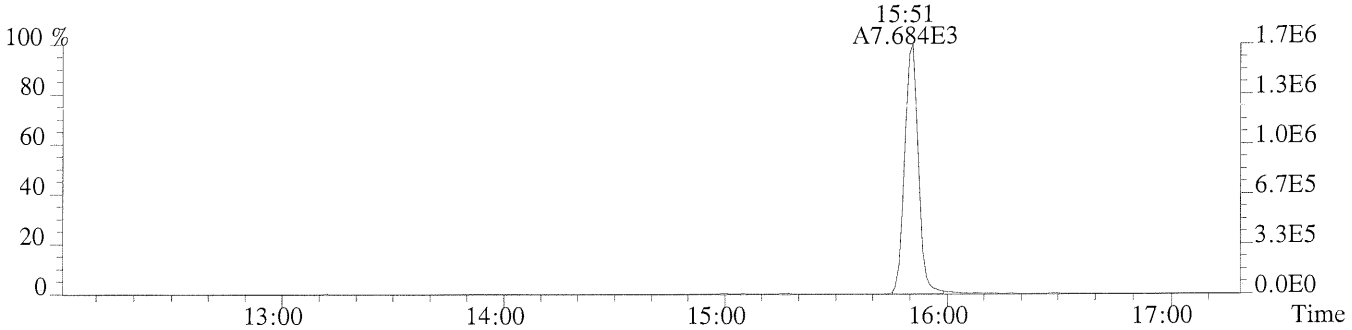
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7544.0,1.00%,F,T)



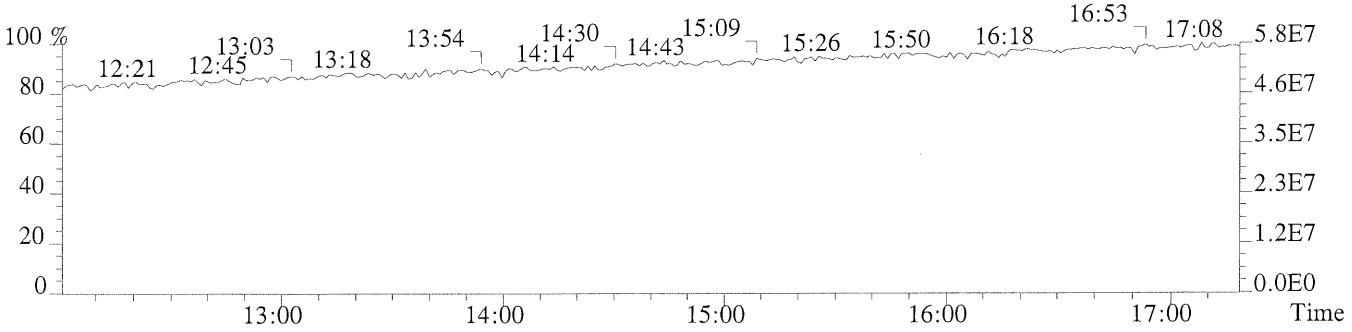
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1864.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1708.0,1.00%,F,T)

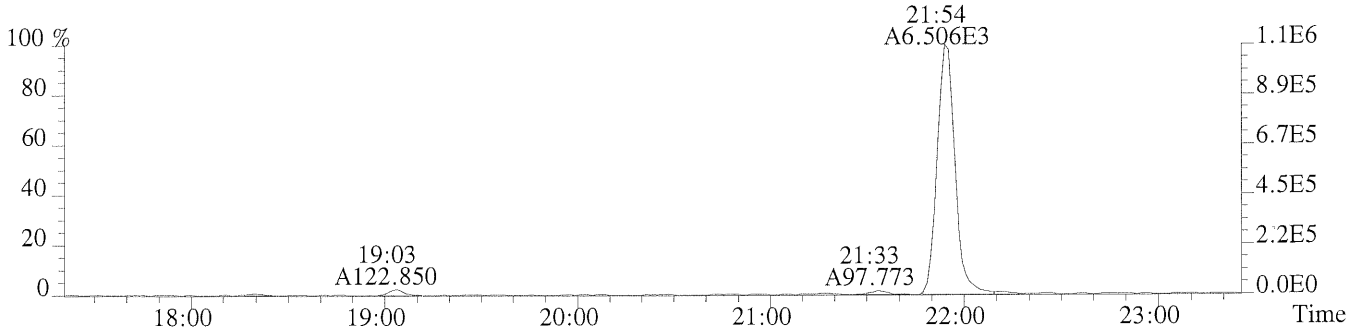


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

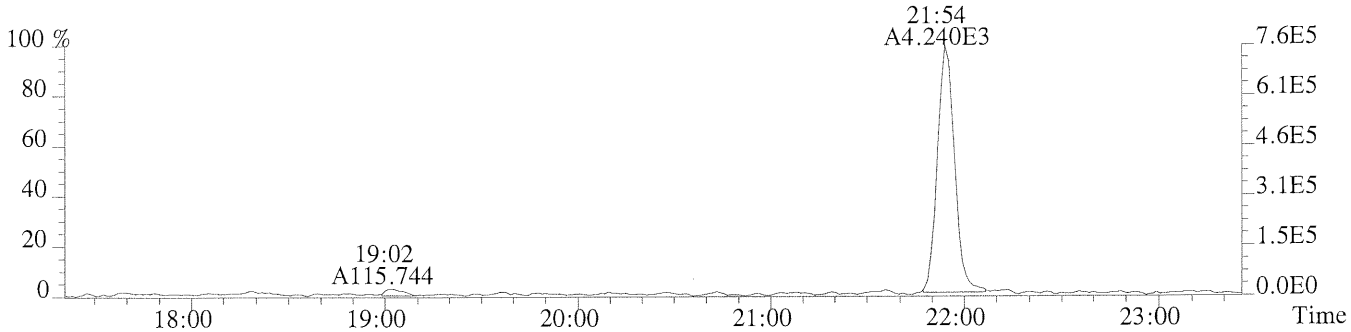


File:U142063 #1-336 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

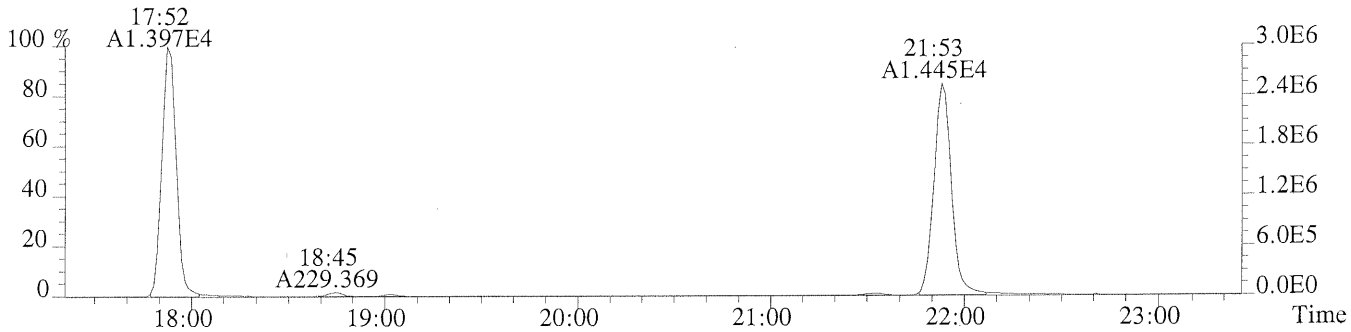
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1748.0,1.00%,F,T)



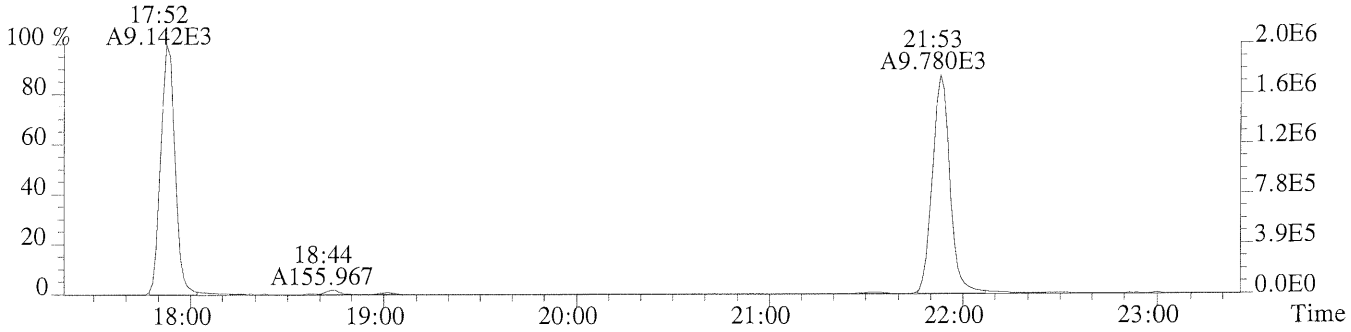
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9868.0,1.00%,F,T)



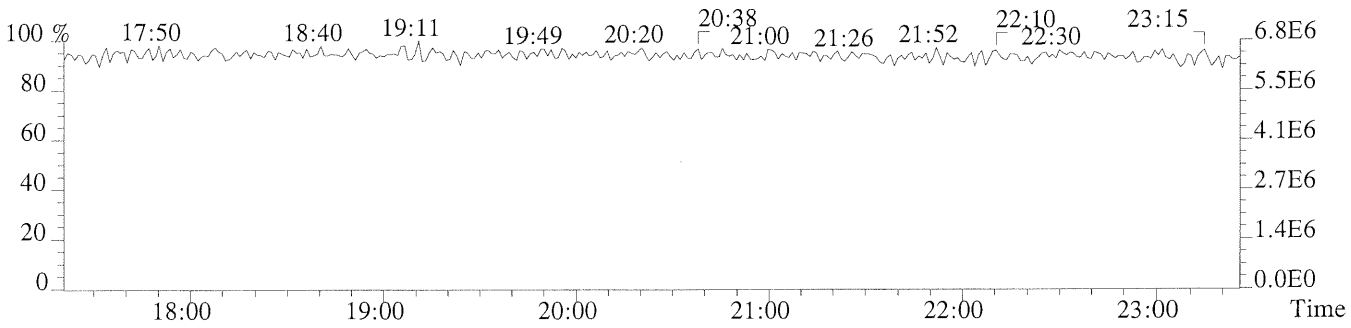
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1120.0,1.00%,F,T)

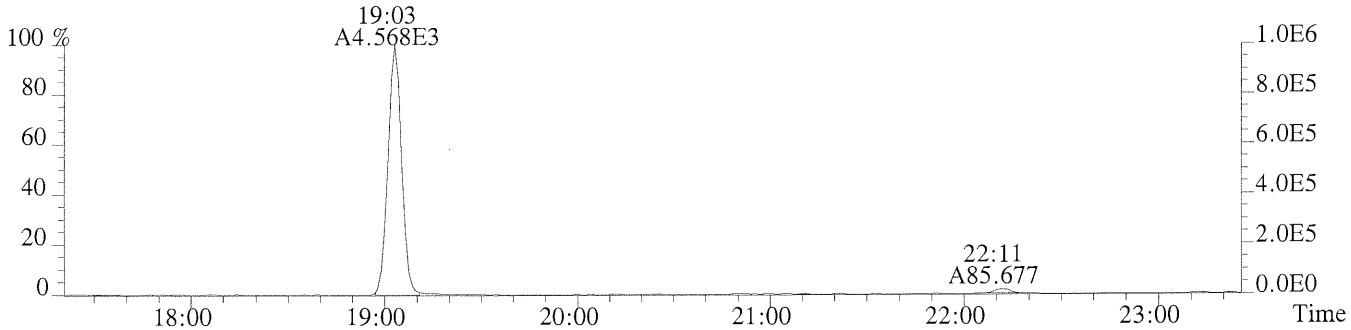


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

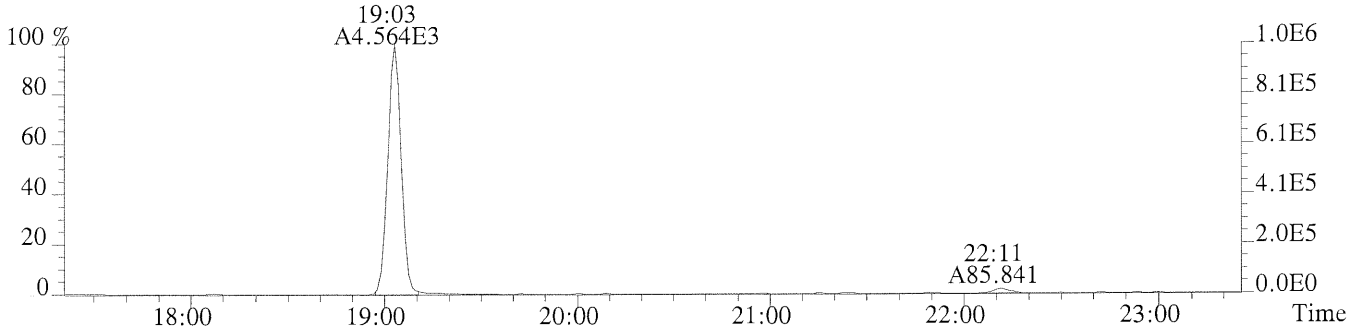


File:U142063 #1-336 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

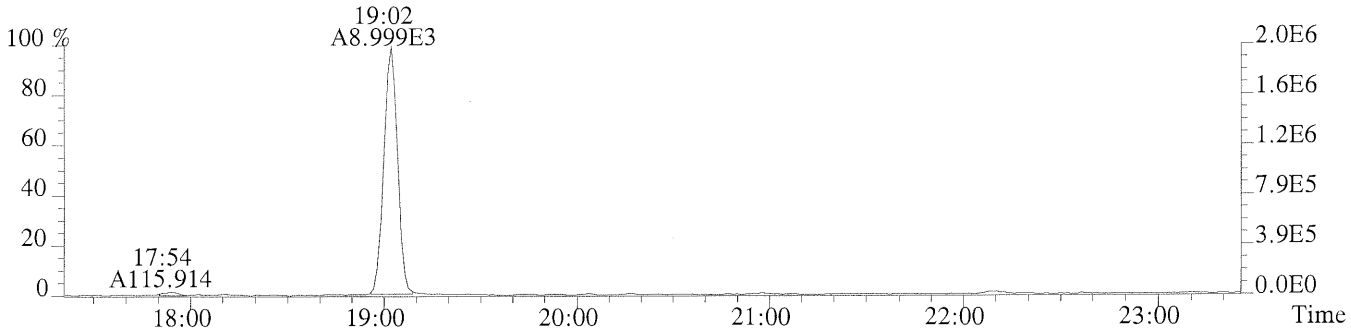
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1180.0,1.00%,F,T)



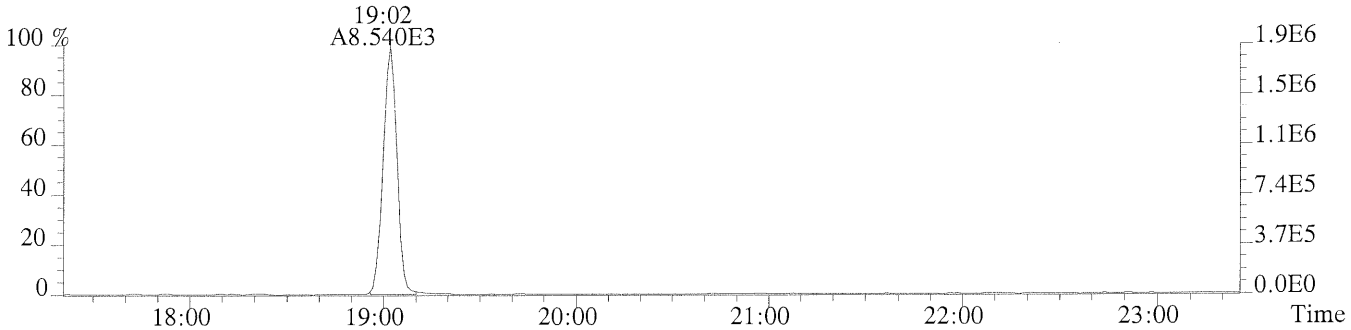
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1164.0,1.00%,F,T)



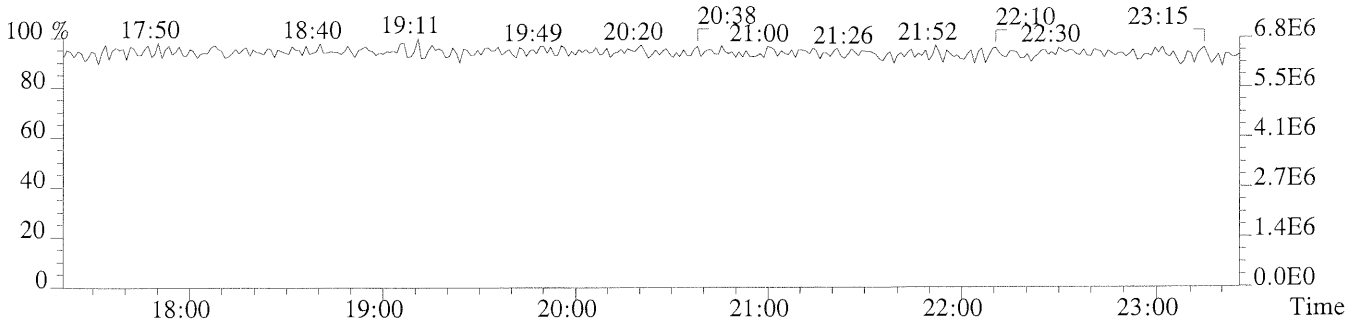
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11080.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7052.0,1.00%,F,T)

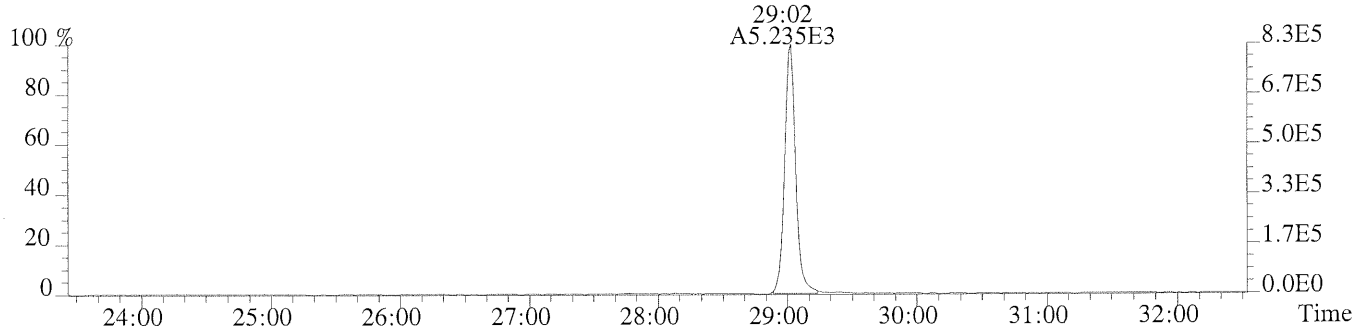


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

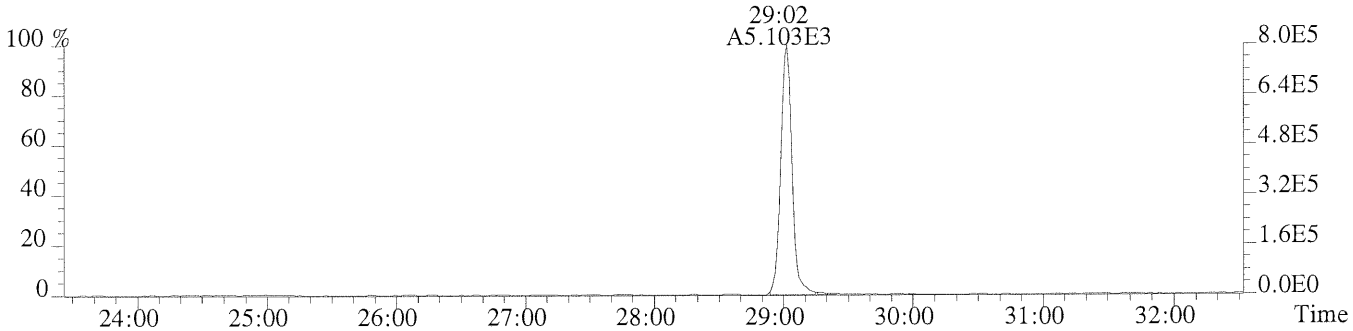


File:U142063 #1-582 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

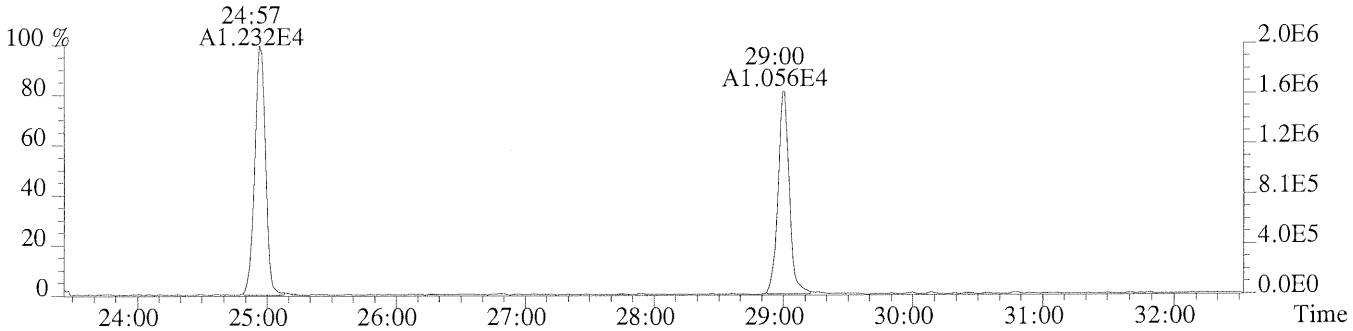
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1812.0,1.00%,F,T)



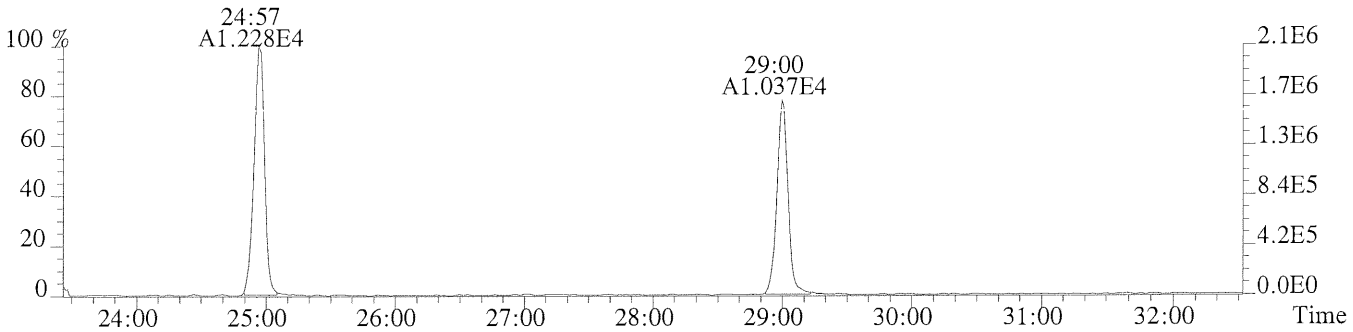
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)



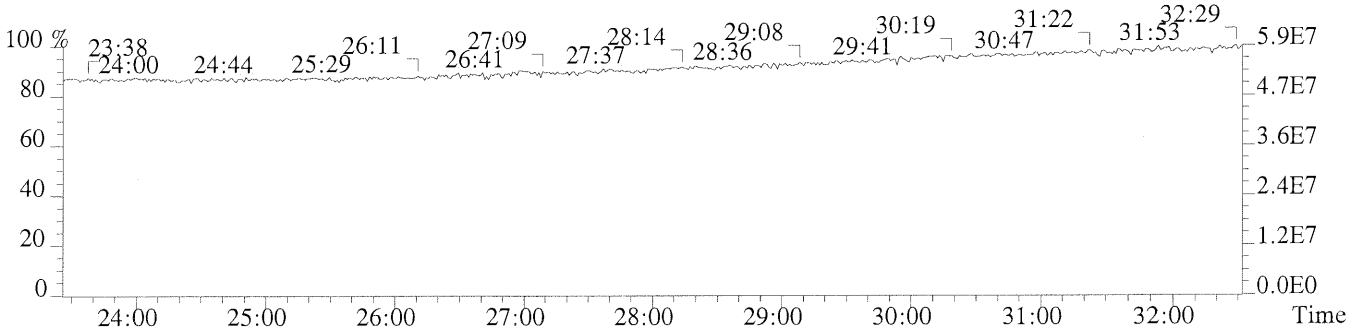
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8328.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9692.0,1.00%,F,T)

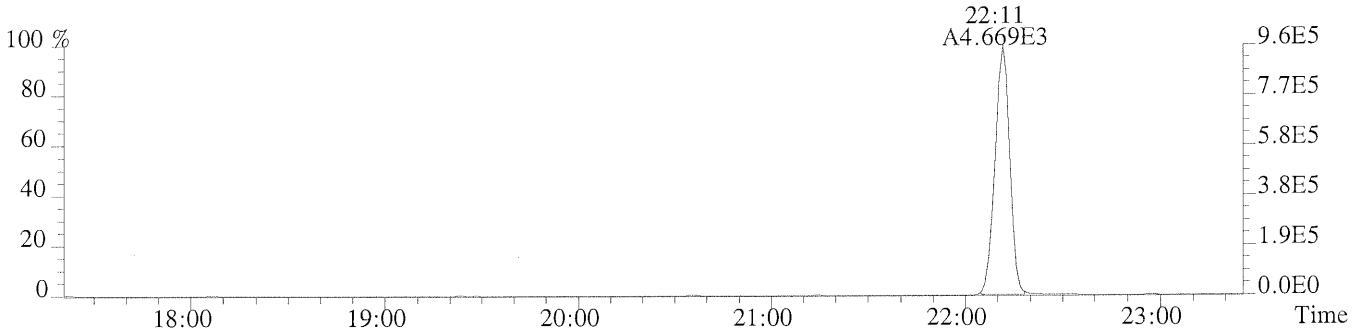


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

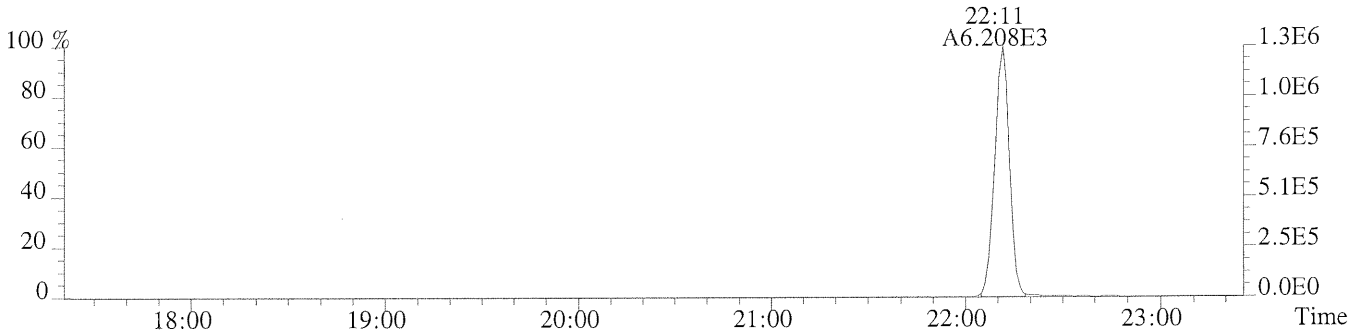


File:U142063 #1-336 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

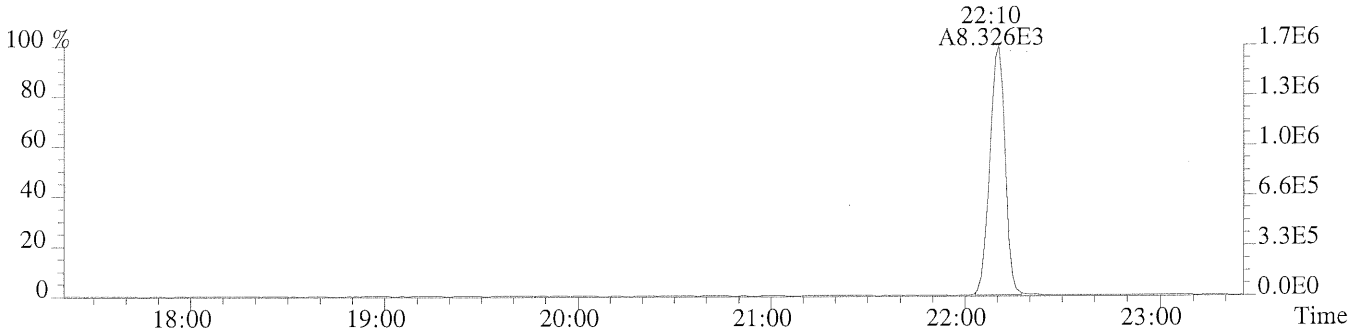
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)



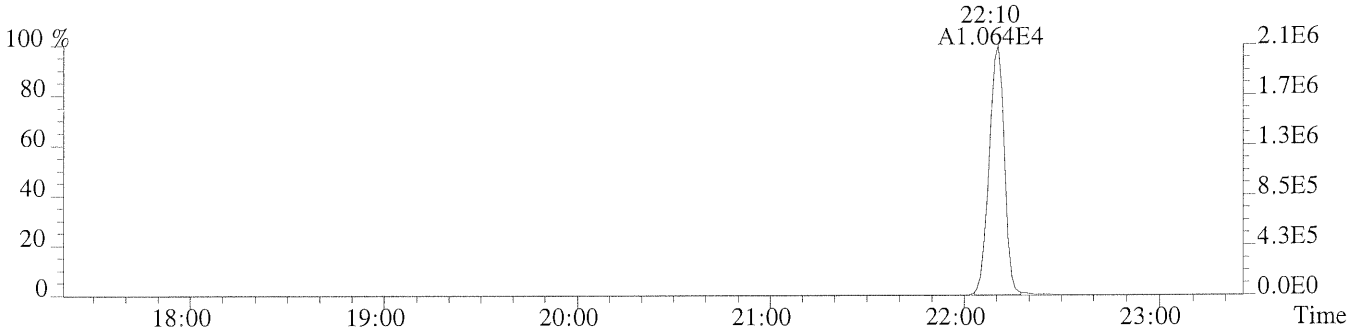
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



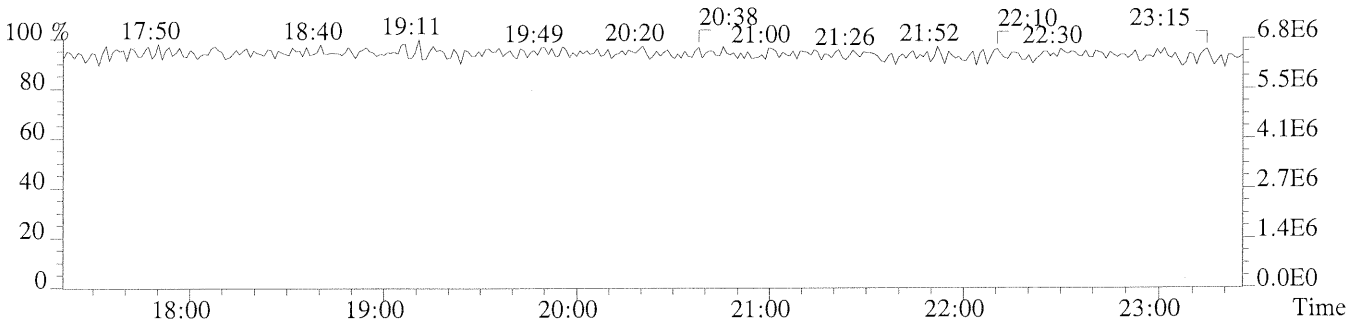
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3712.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)

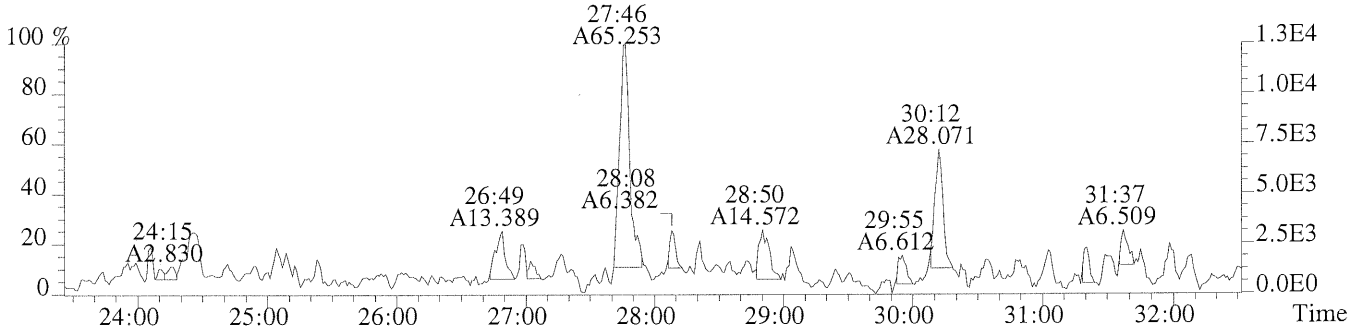


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

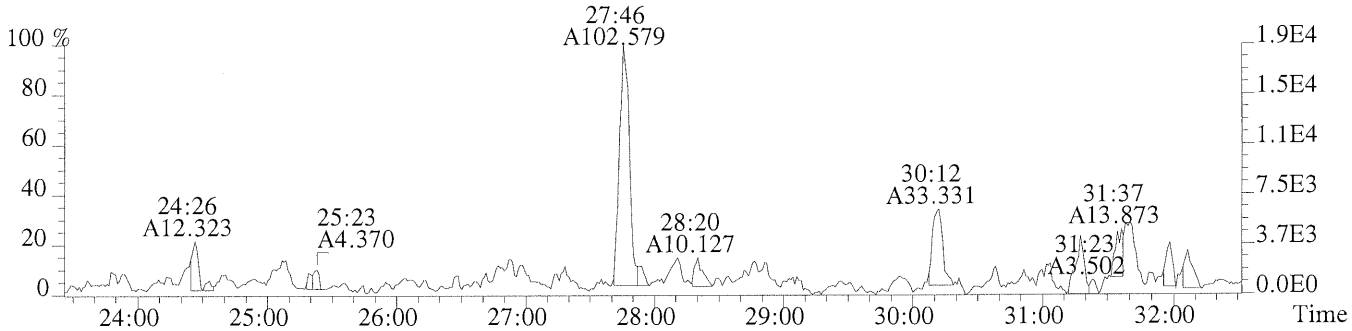


File:U142063 #1-582 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

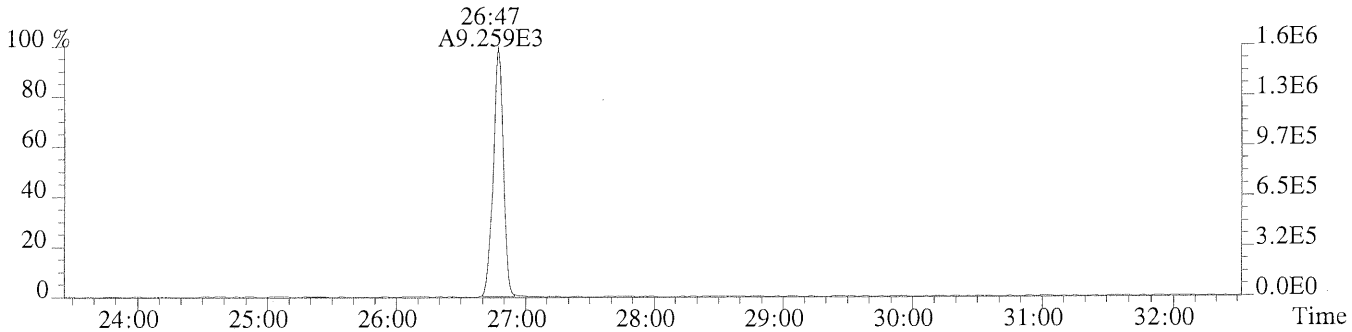
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)



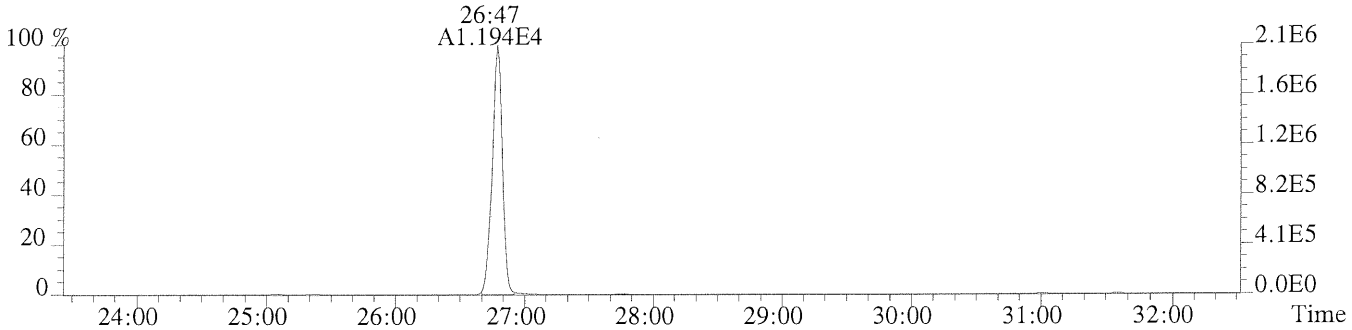
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



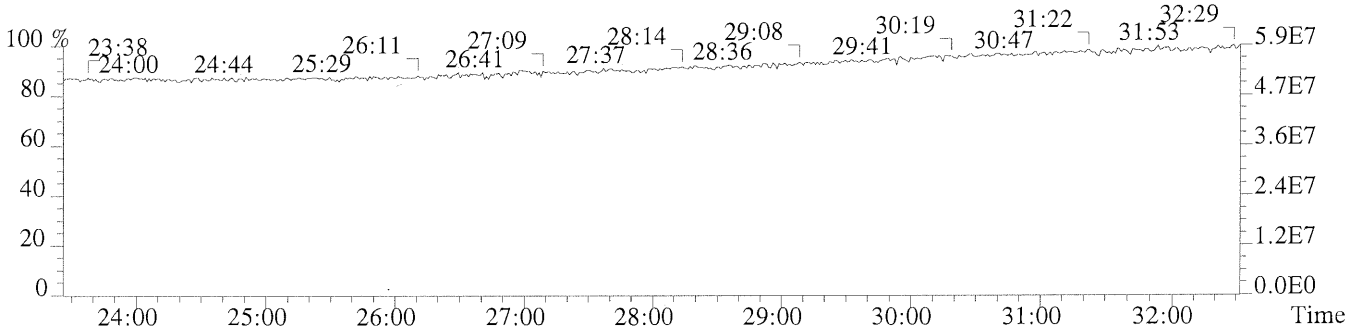
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2424.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1248.0,1.00%,F,T)

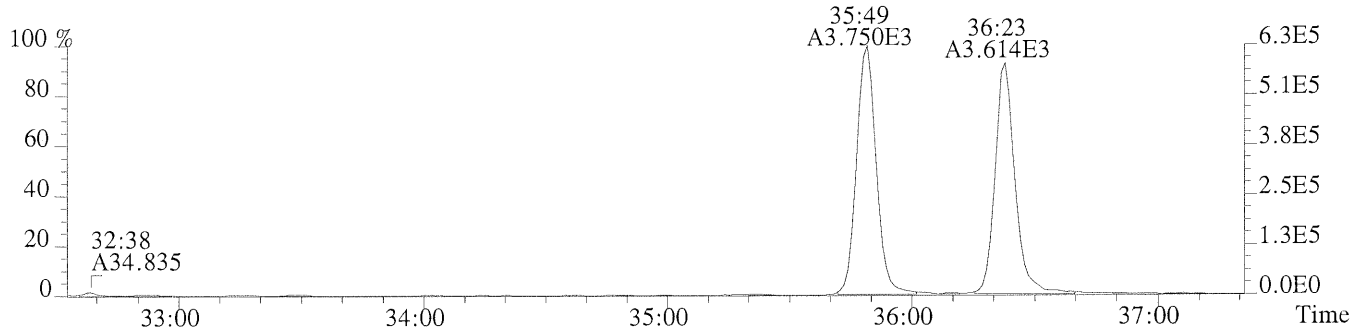


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

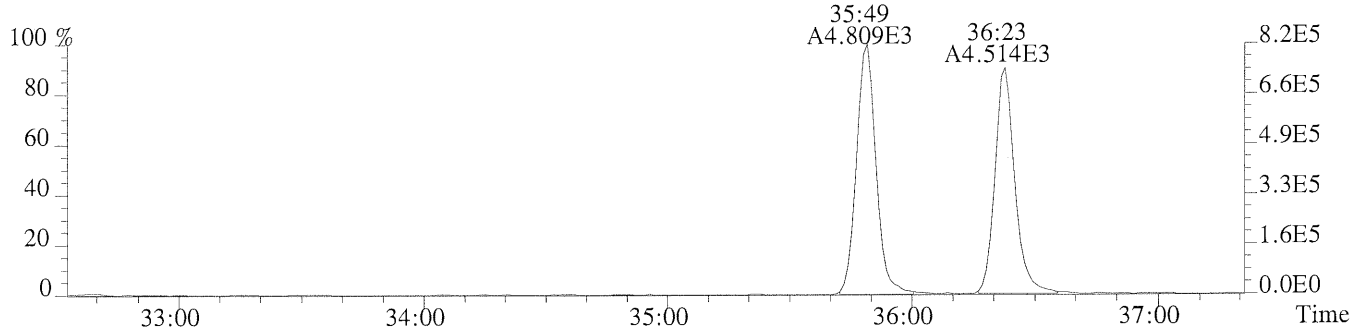


File:U142063 #1-308 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

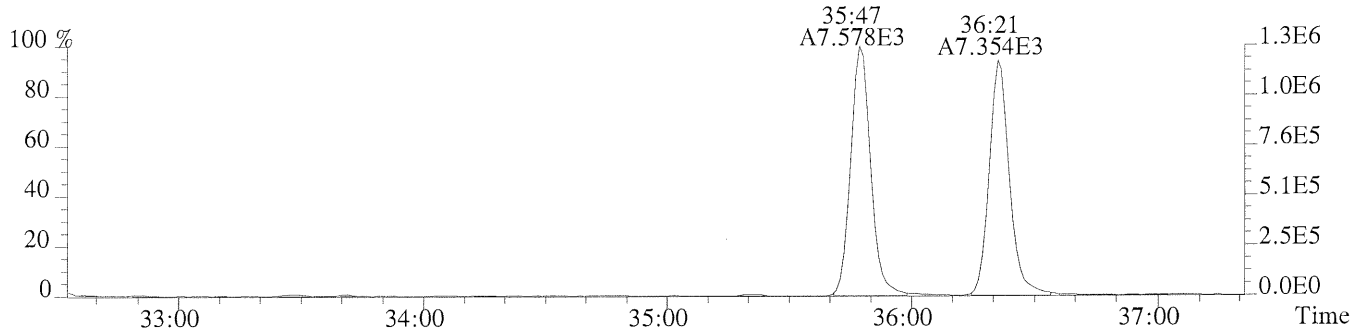
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,768.0,1.00%,F,T)



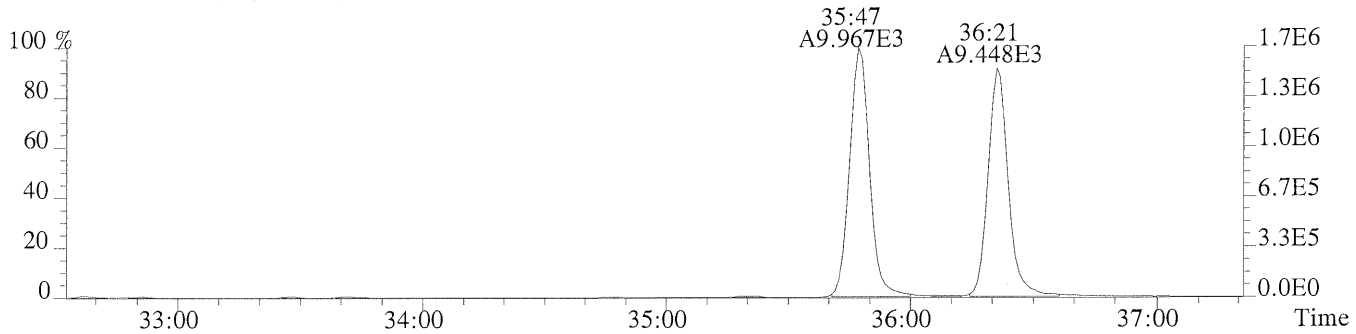
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



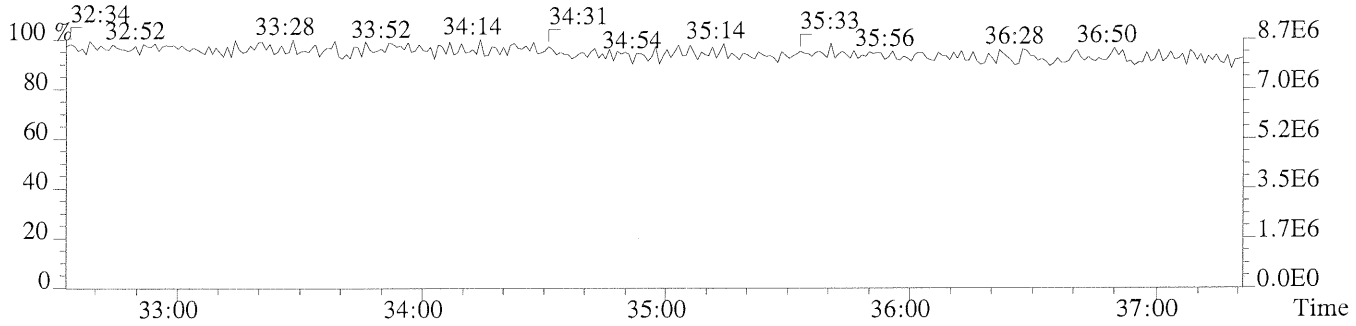
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2112.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,812.0,1.00%,F,T)

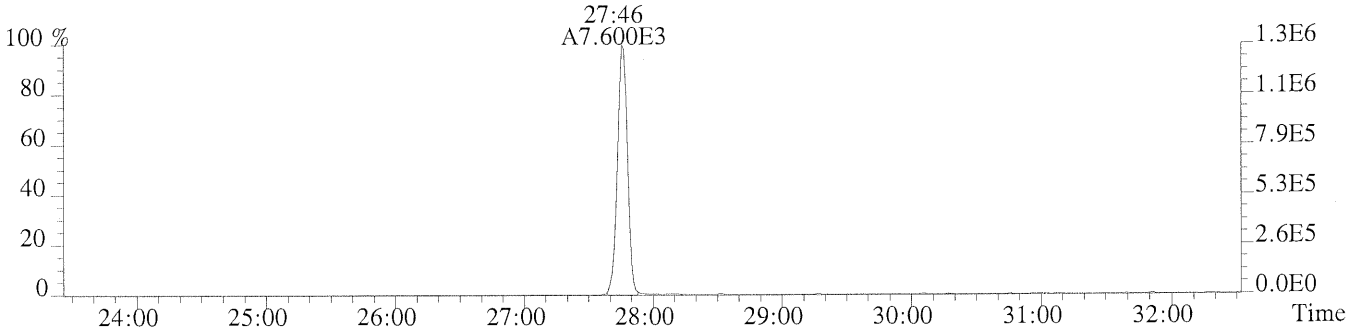


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

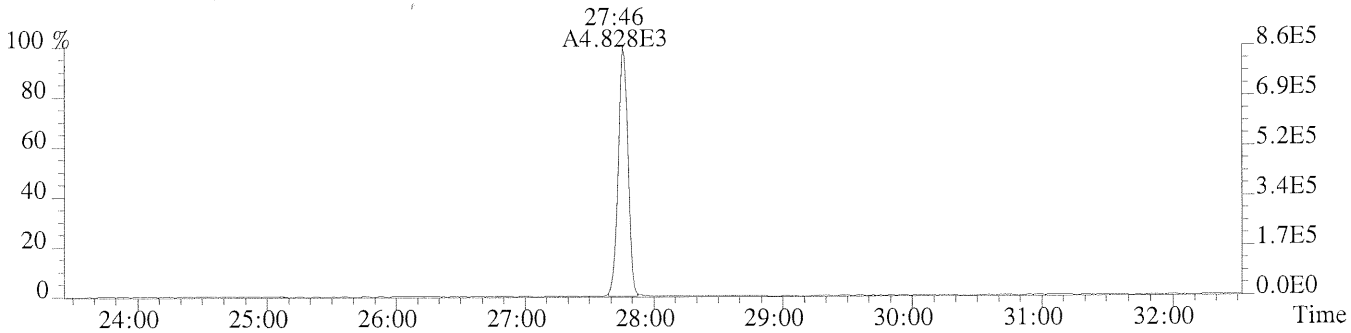


File:U142063 #1-582 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

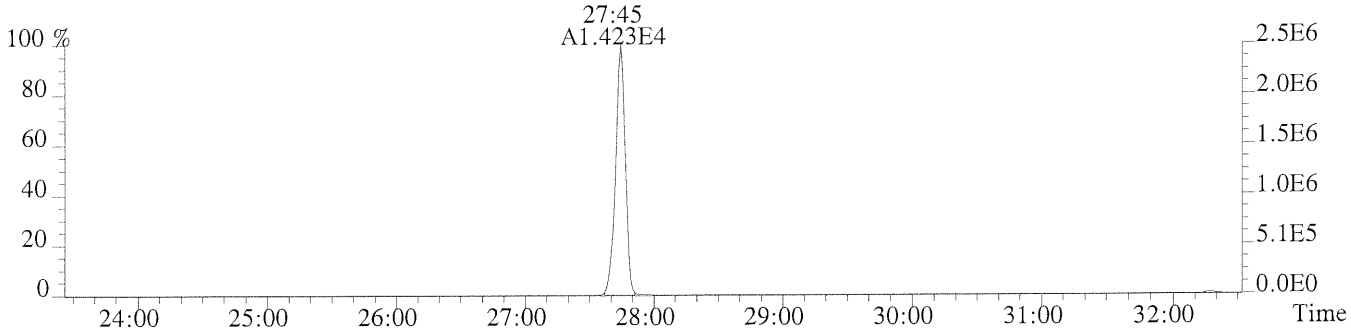
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1012.0,1.00%,F,T)



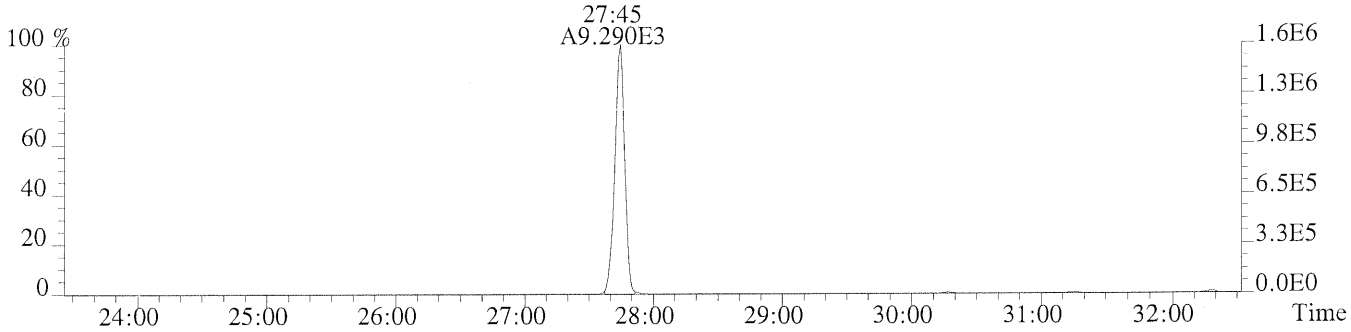
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1652.0,1.00%,F,T)



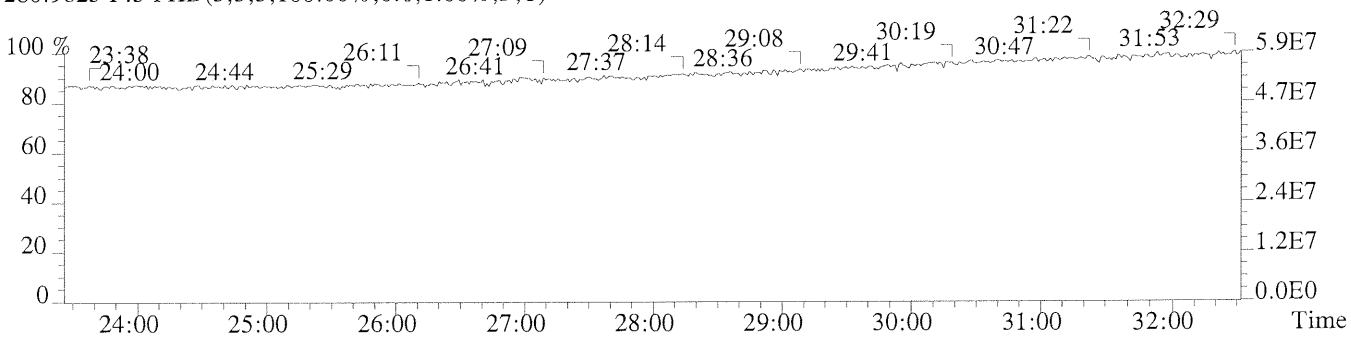
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1168.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1056.0,1.00%,F,T)

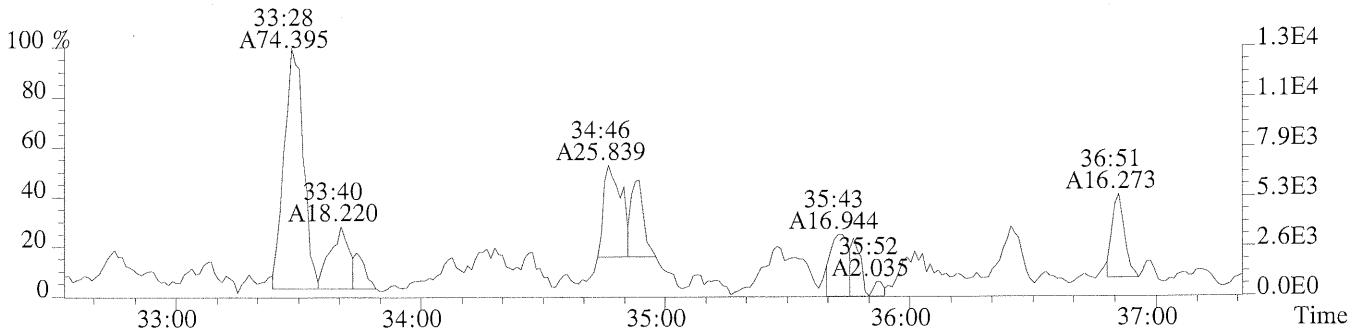


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

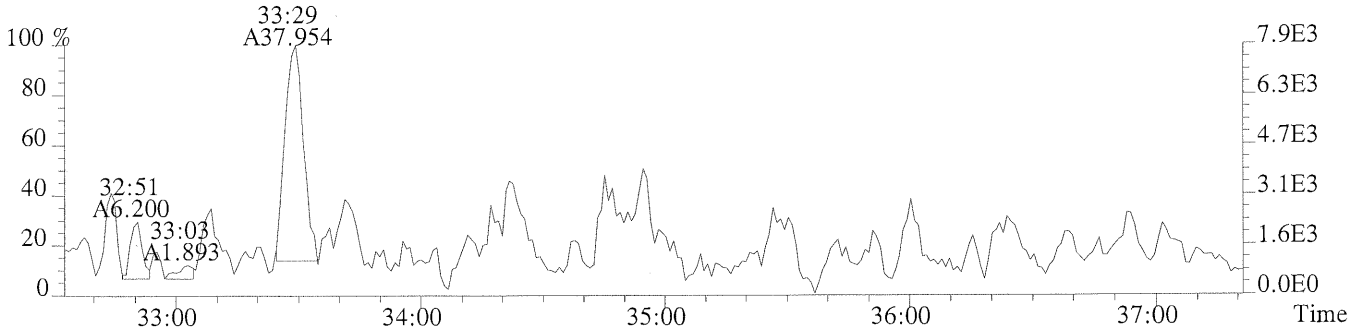


File:U142063 #1-308 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

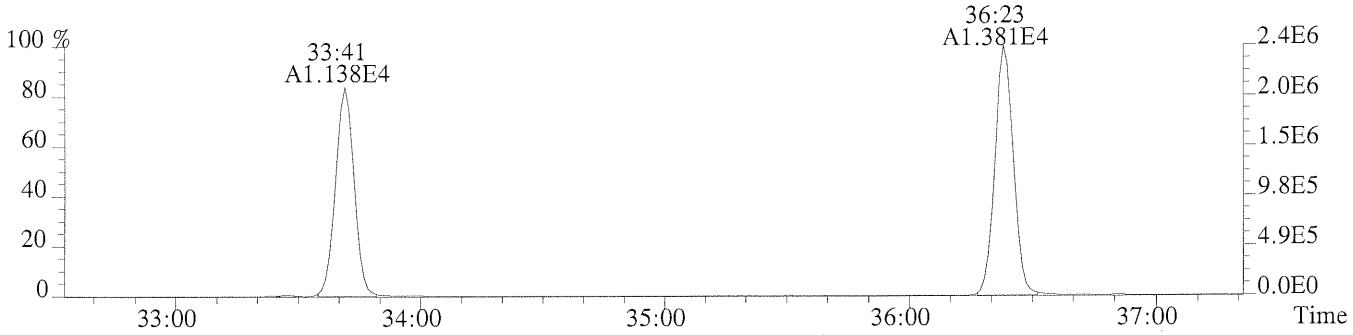
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



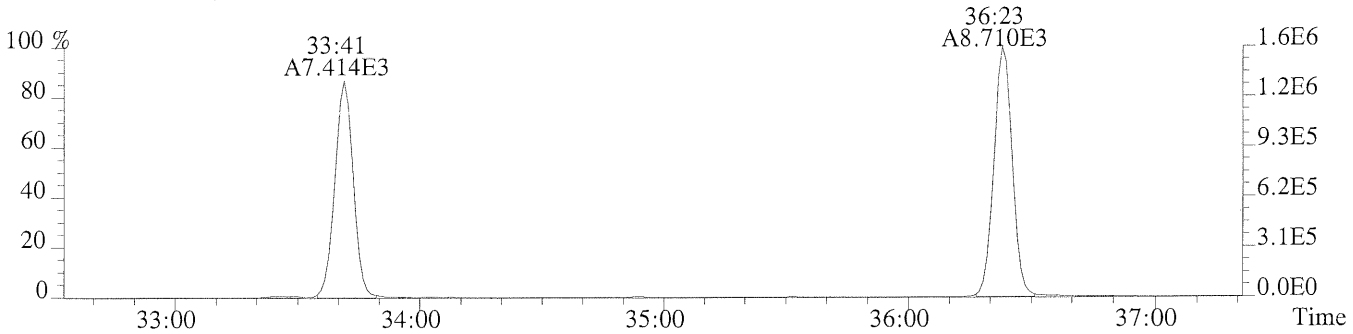
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1600.0,1.00%,F,T)



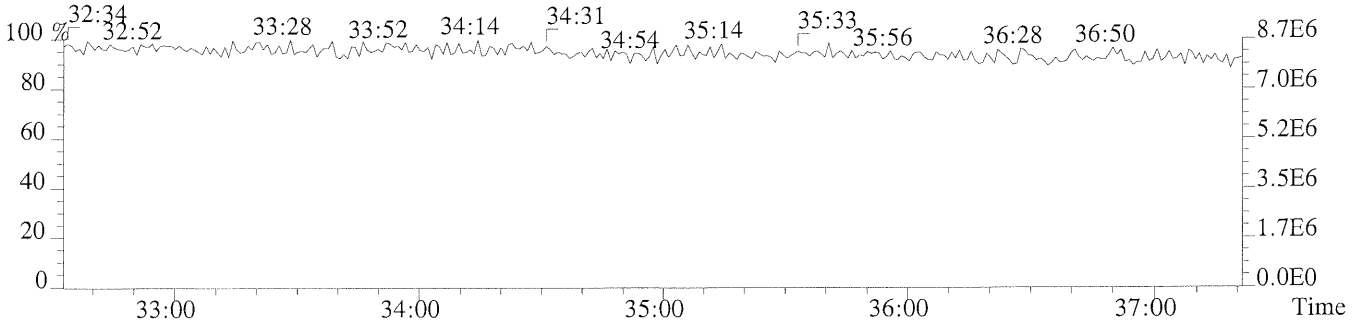
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1300.0,1.00%,F,T)

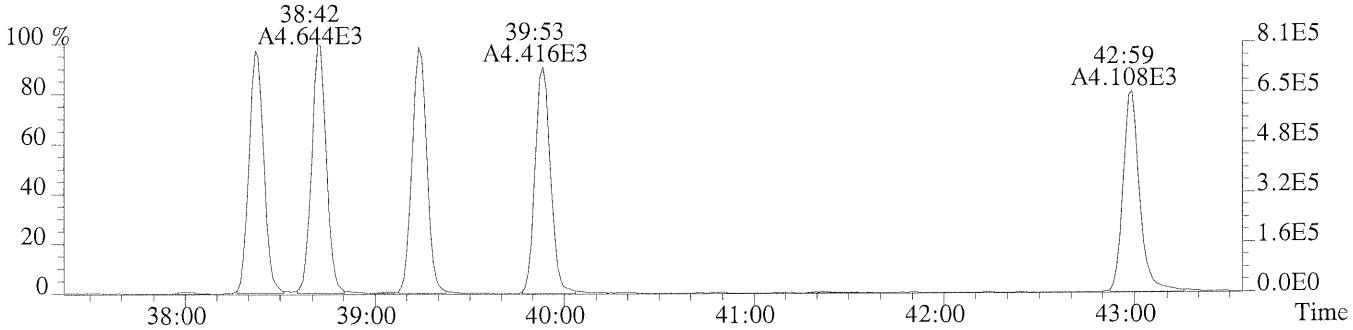


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

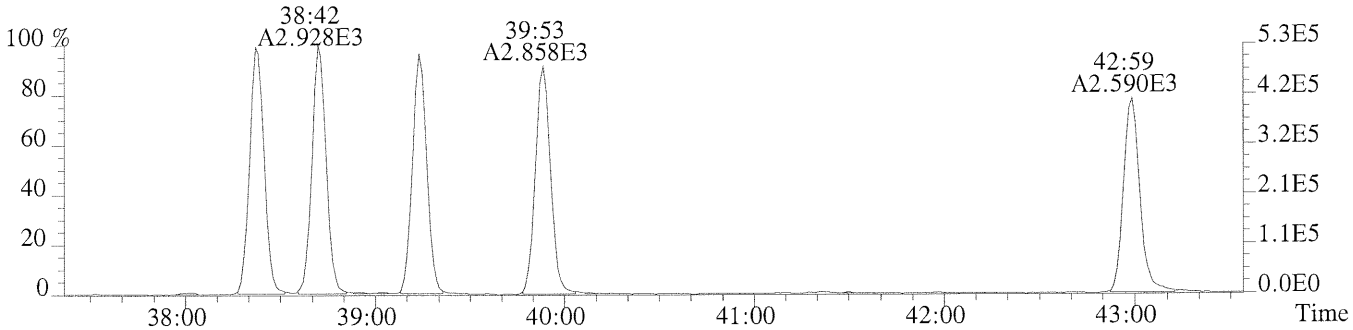


File:U142063 #1-397 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

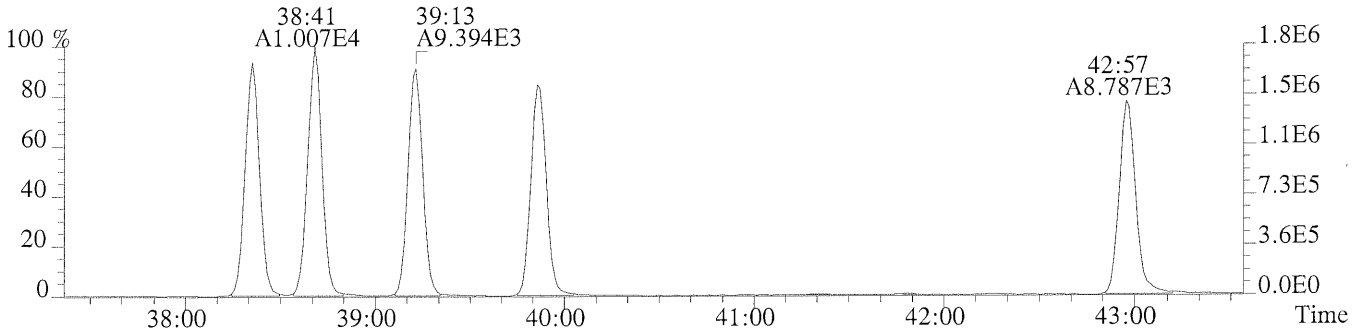
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1068.0,1.00%,F,T)



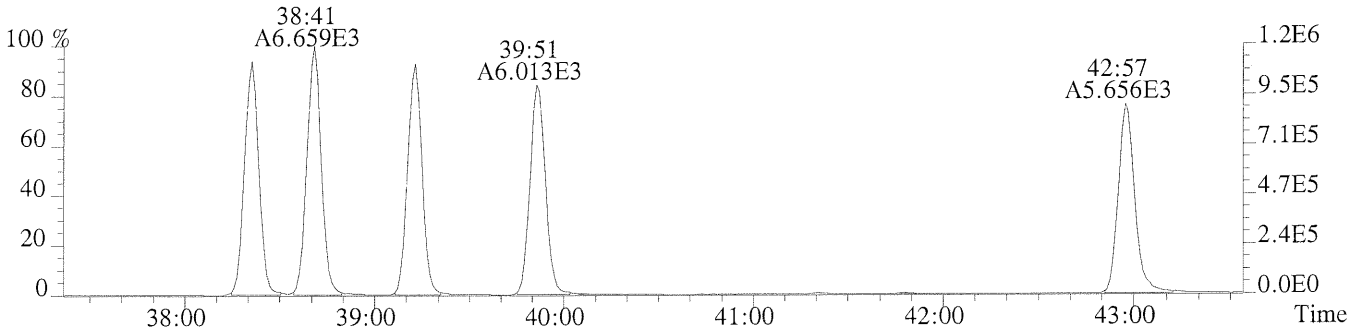
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1672.0,1.00%,F,T)



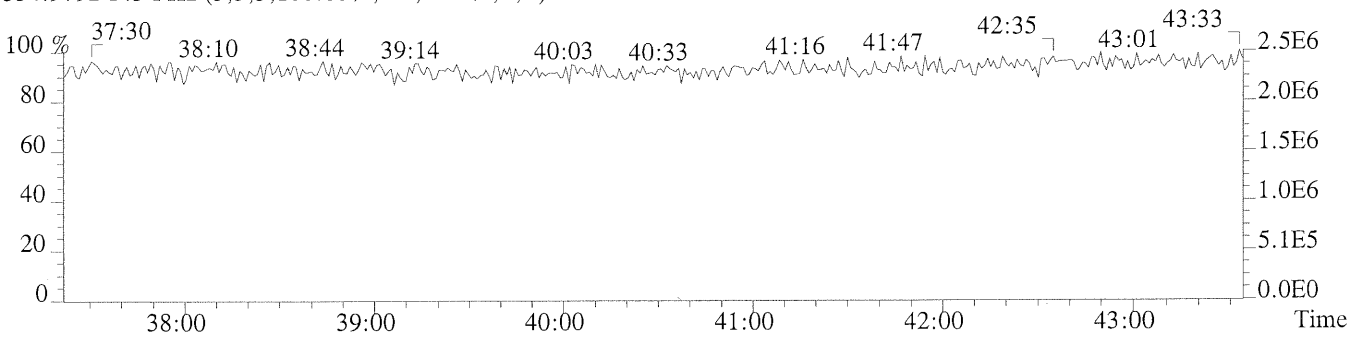
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3744.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3136.0,1.00%,F,T)

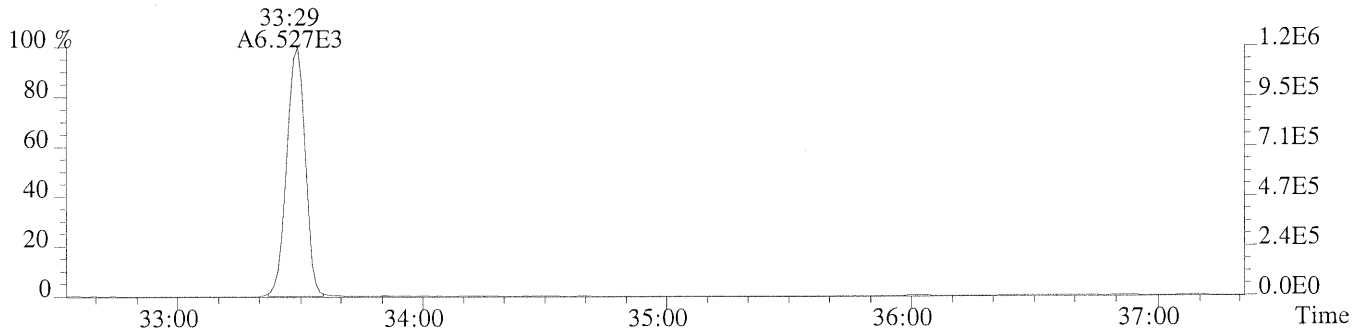


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

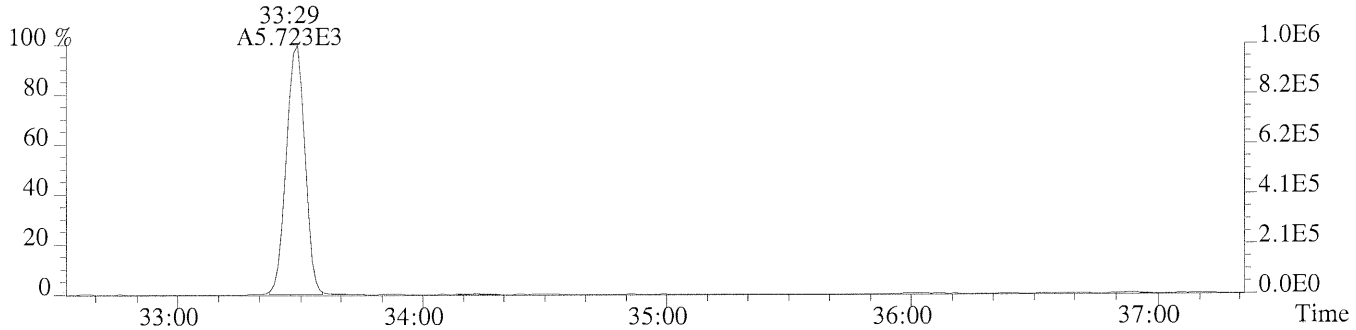


File:U142063 #1-308 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

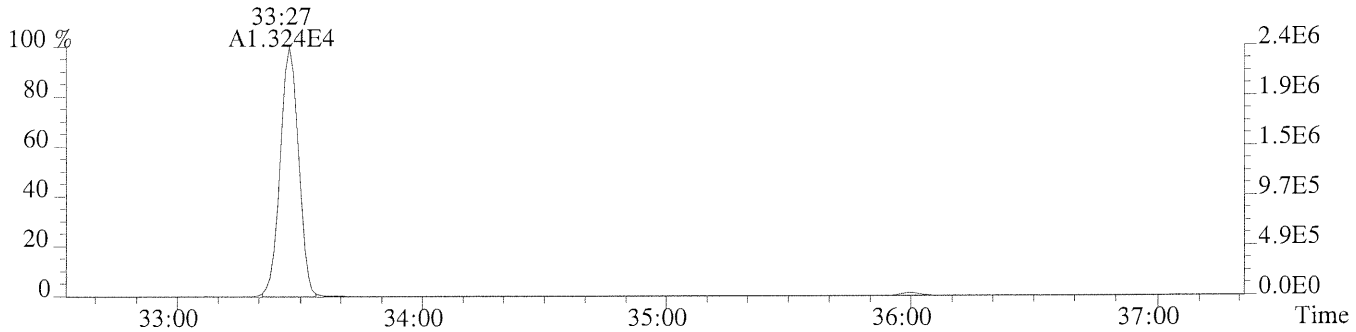
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1800.0,1.00%,F,T)



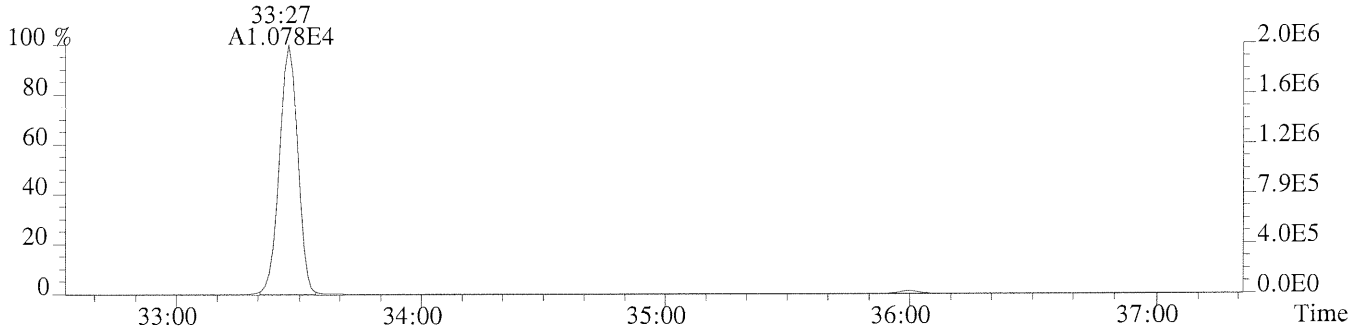
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1456.0,1.00%,F,T)



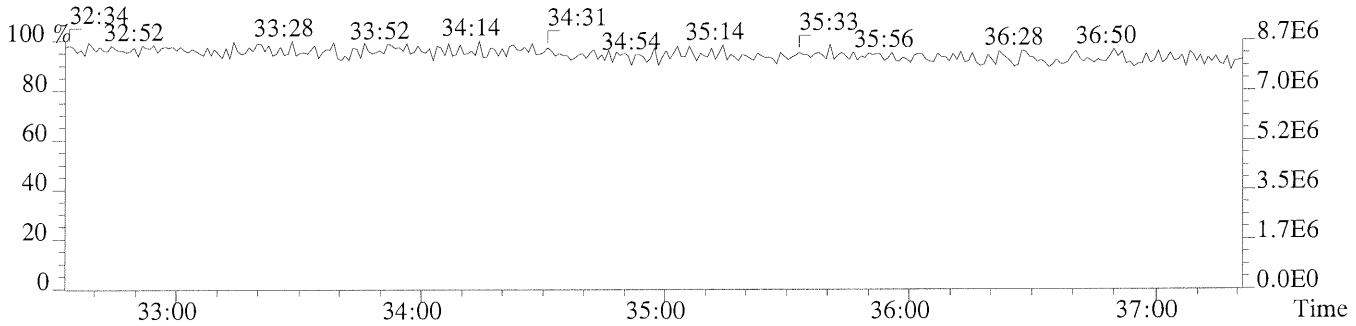
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,604.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1396.0,1.00%,F,T)

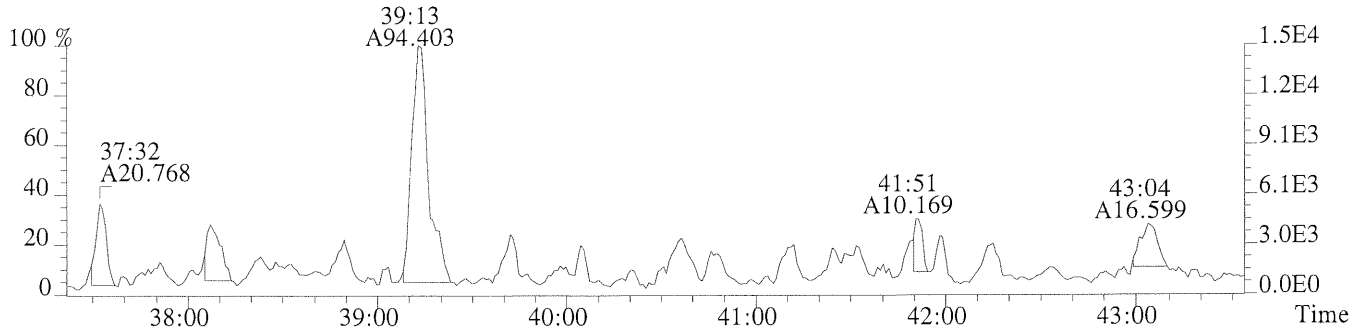


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

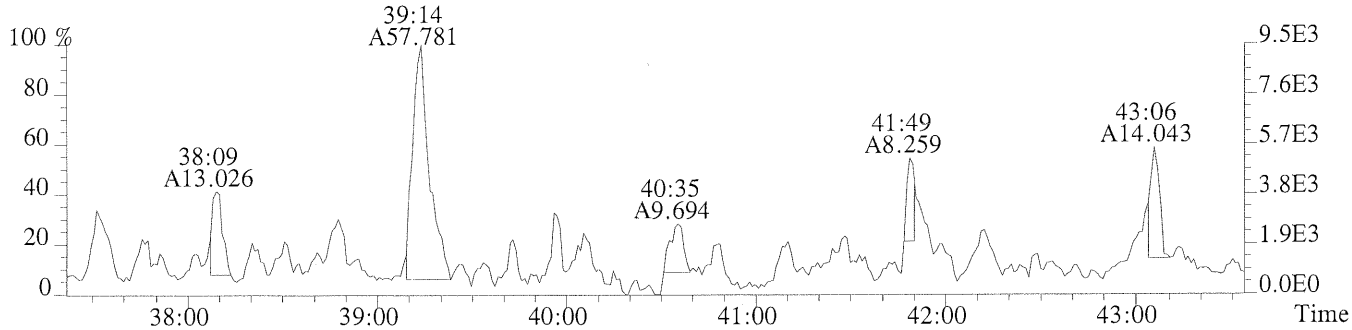


File:U142063 #1-397 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

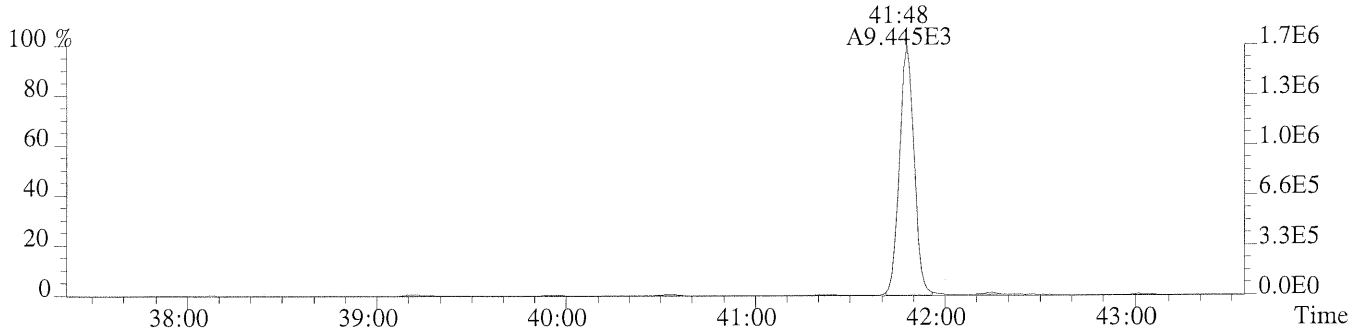
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1388.0,1.00%,F,T)



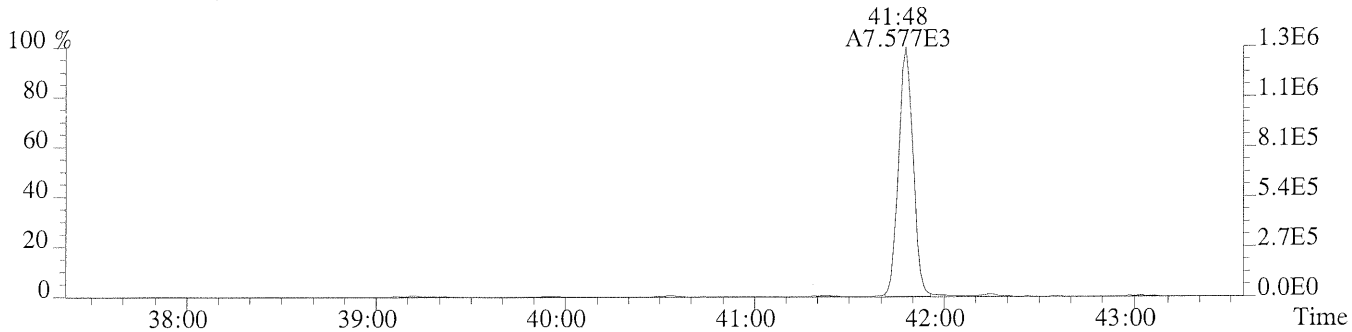
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1300.0,1.00%,F,T)



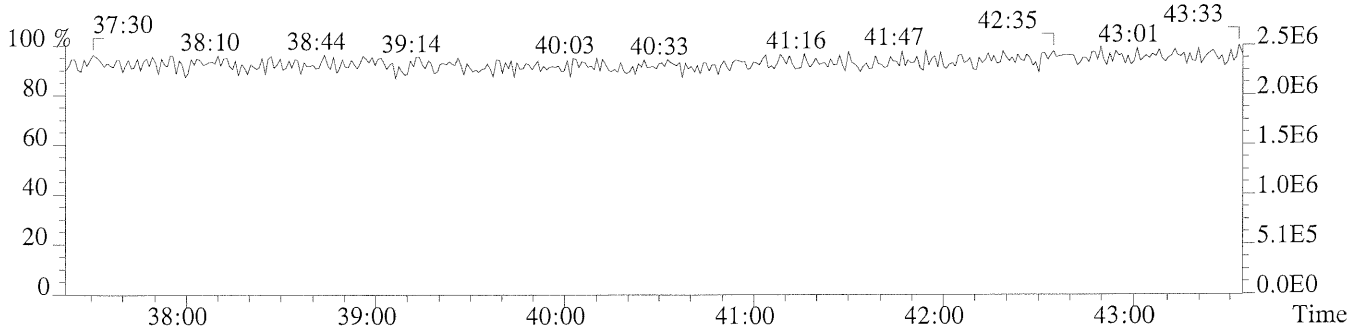
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1184.0,1.00%,F,T)

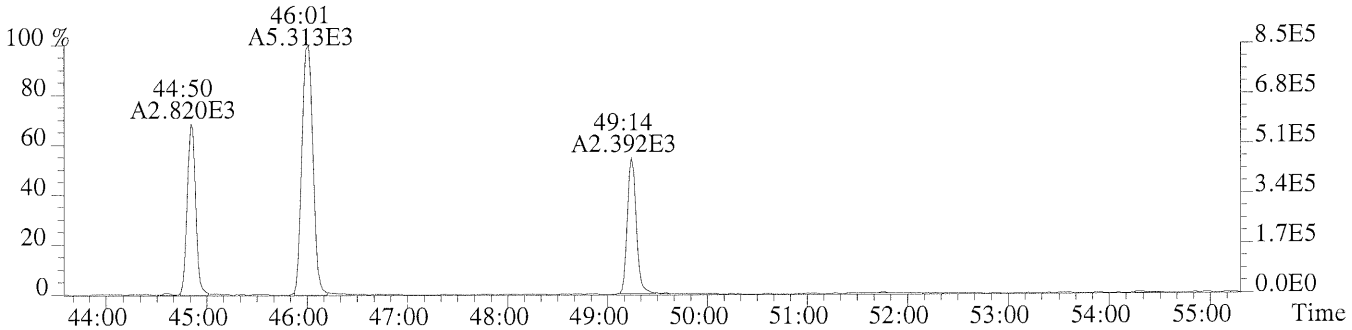


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

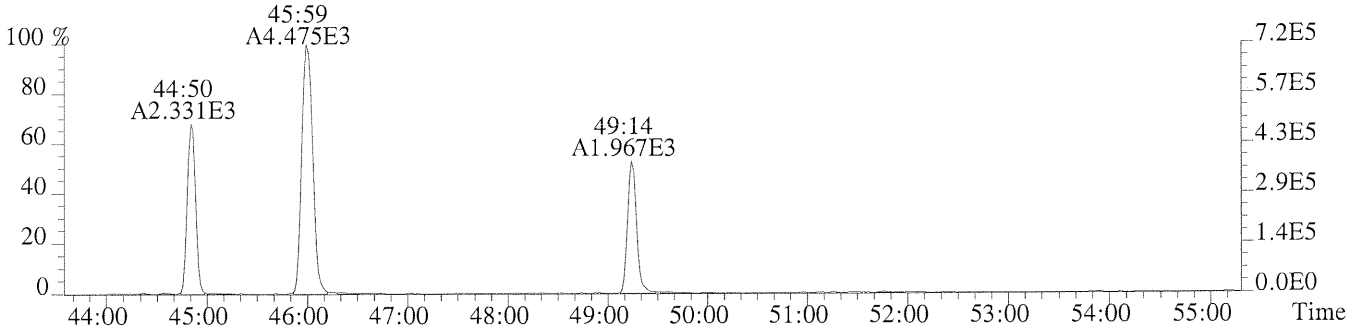


File:U142063 #1-581 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

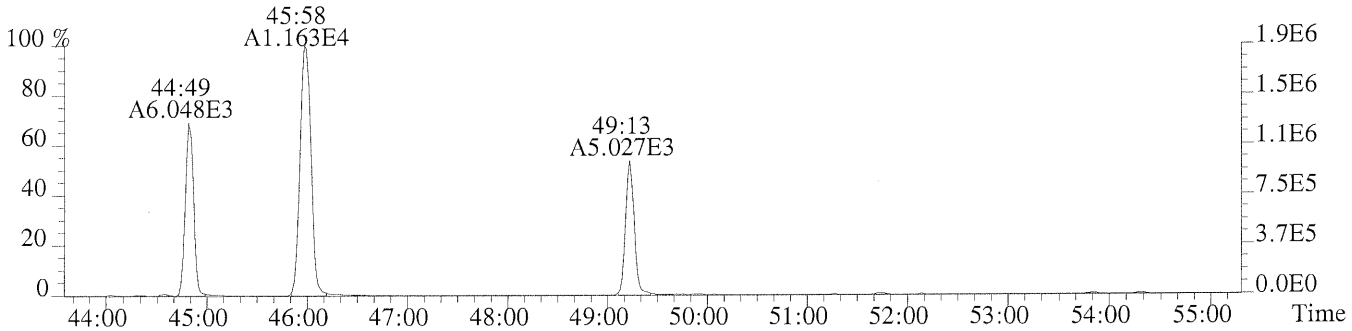
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1412.0,1.00%,F,T)



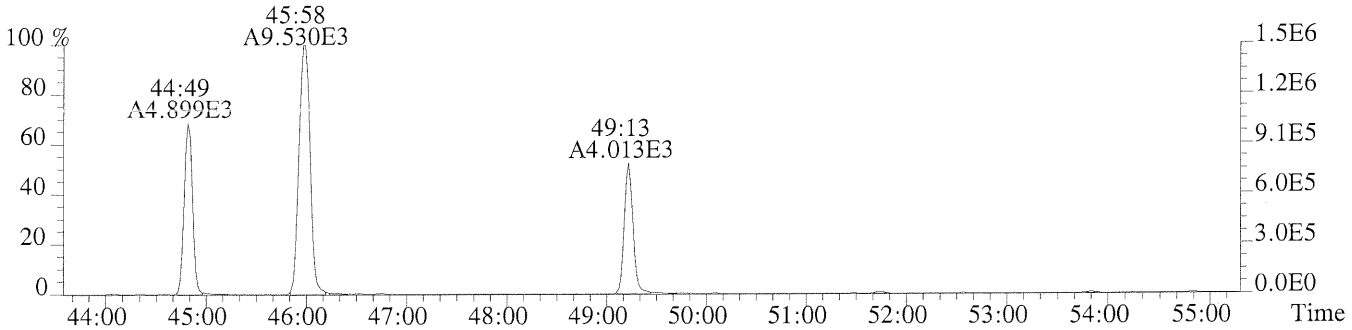
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



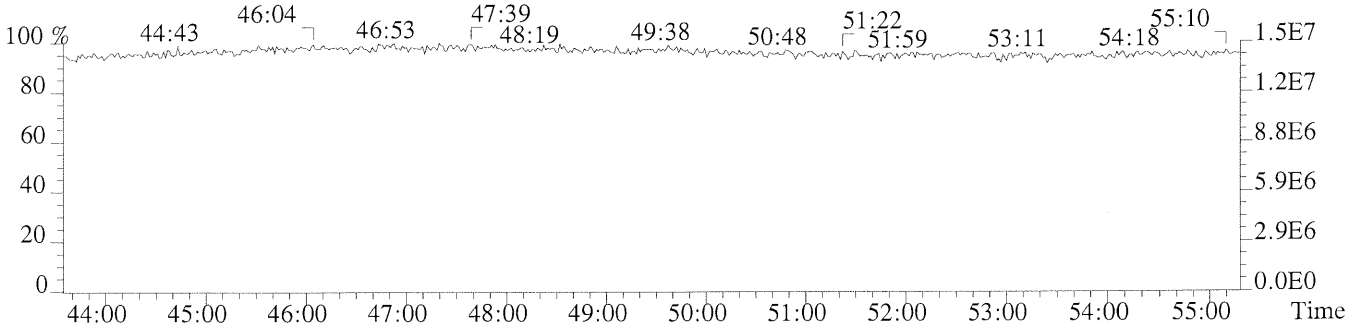
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1072.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1588.0,1.00%,F,T)

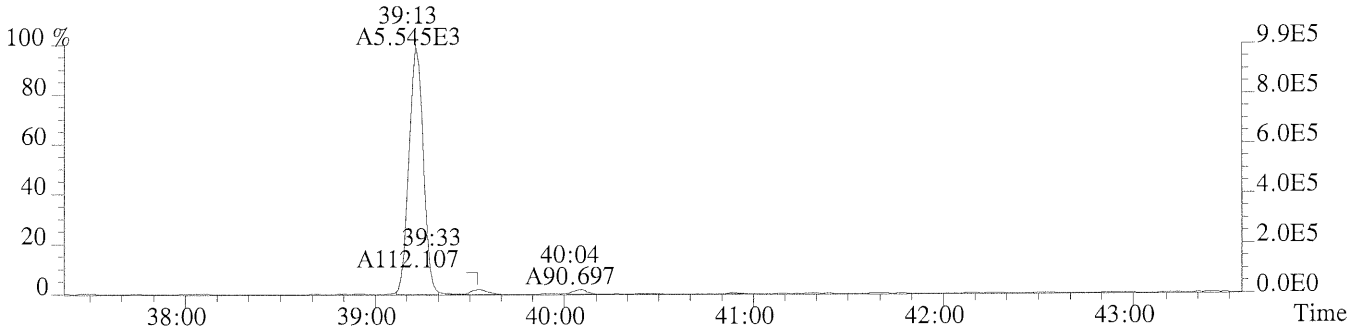


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

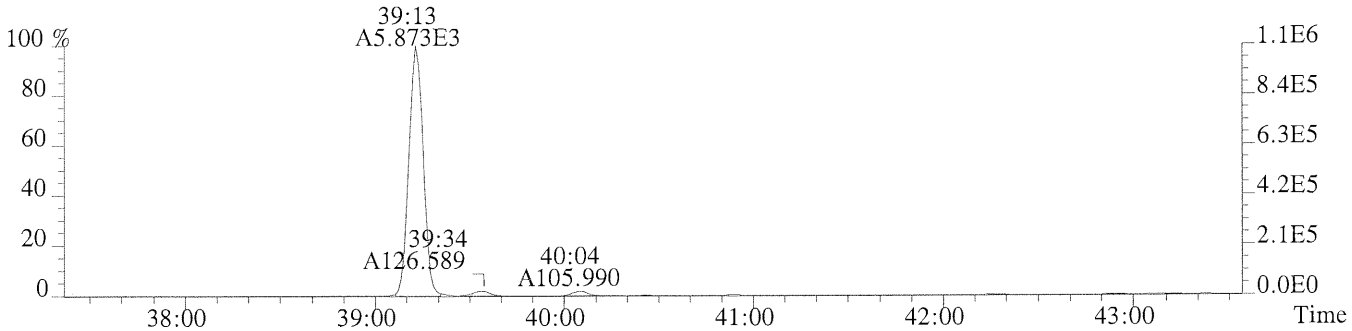


File:U142063 #1-397 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

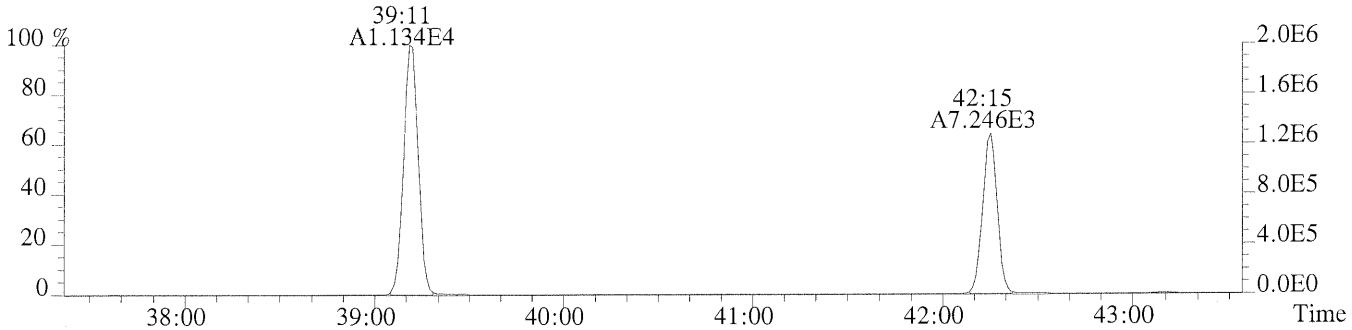
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1408.0,1.00%,F,T)



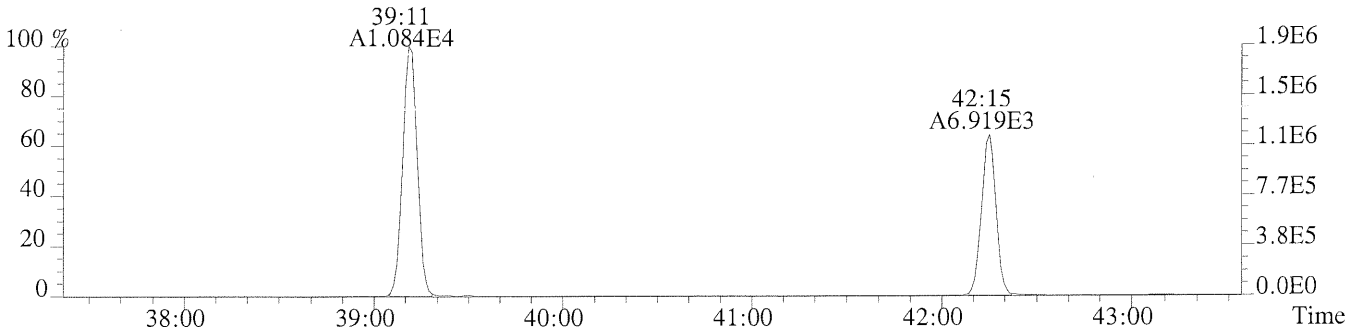
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,728.0,1.00%,F,T)



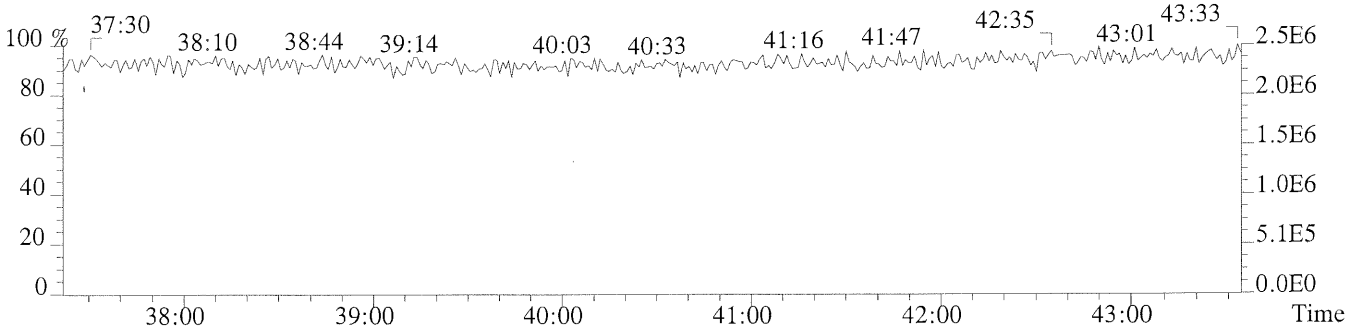
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1088.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,624.0,1.00%,F,T)

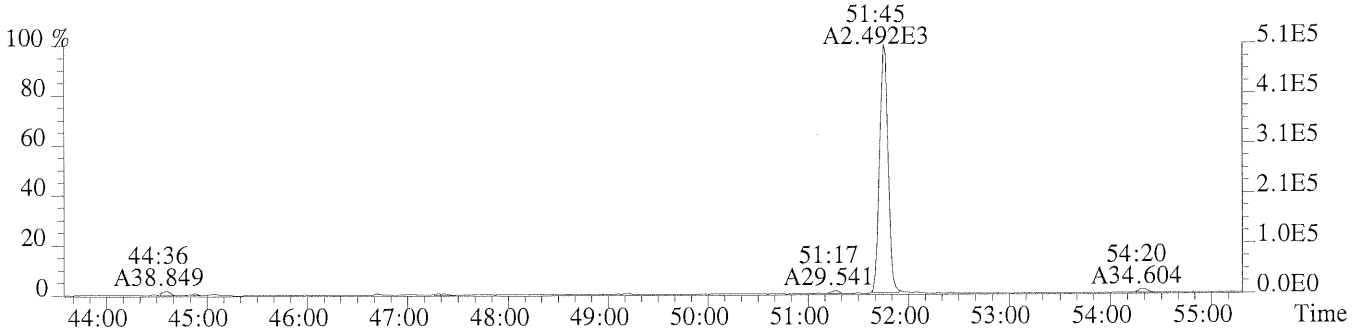


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

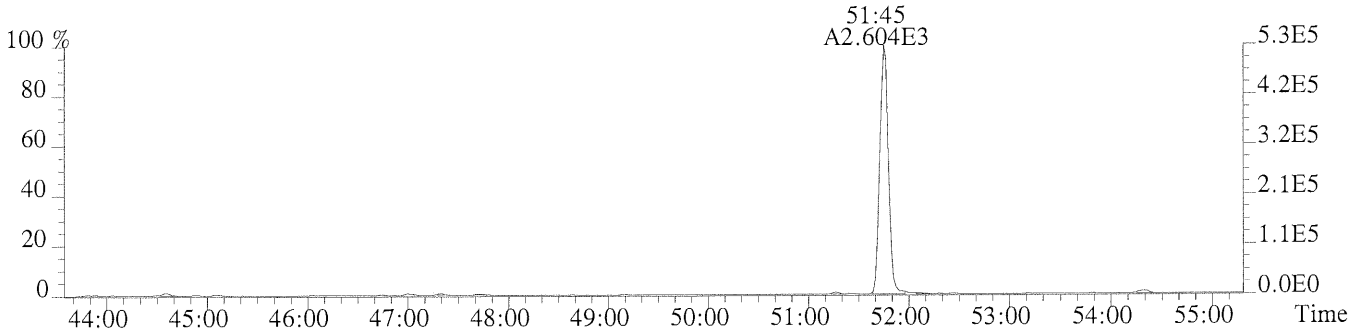


File:U142063 #1-581 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

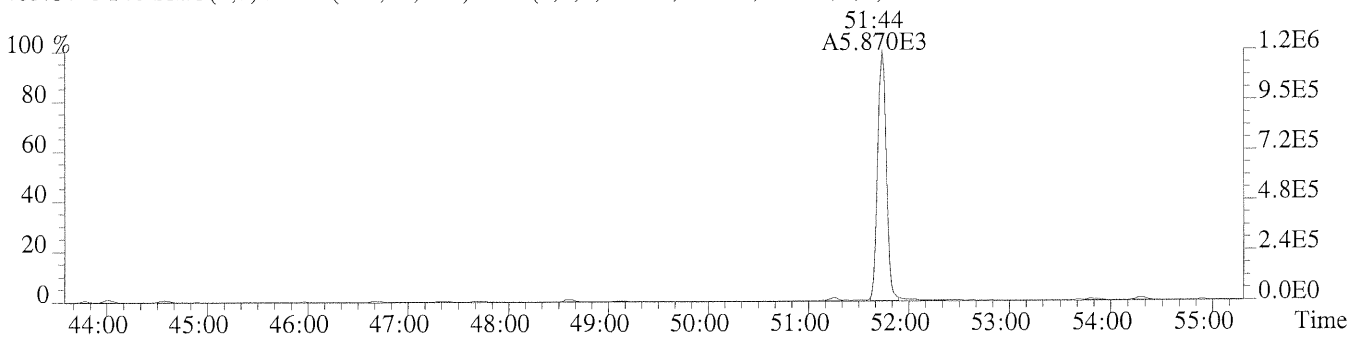
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1612.0,1.00%,F,T)



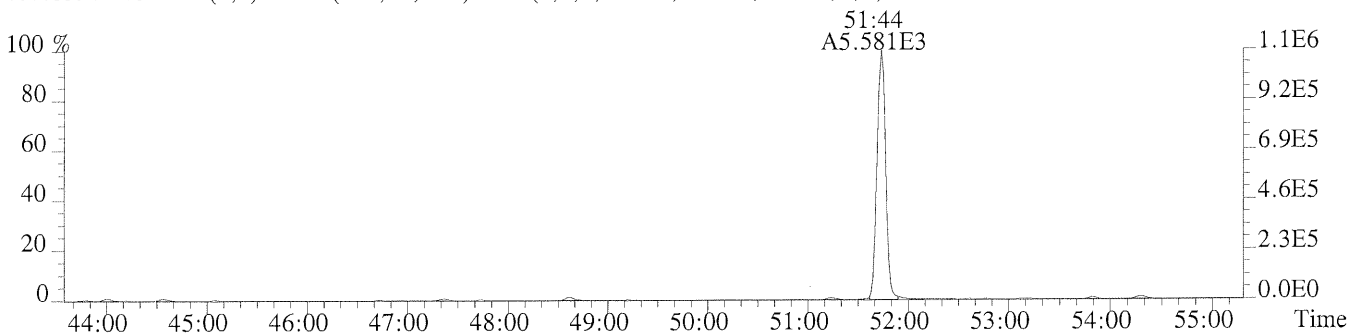
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1952.0,1.00%,F,T)



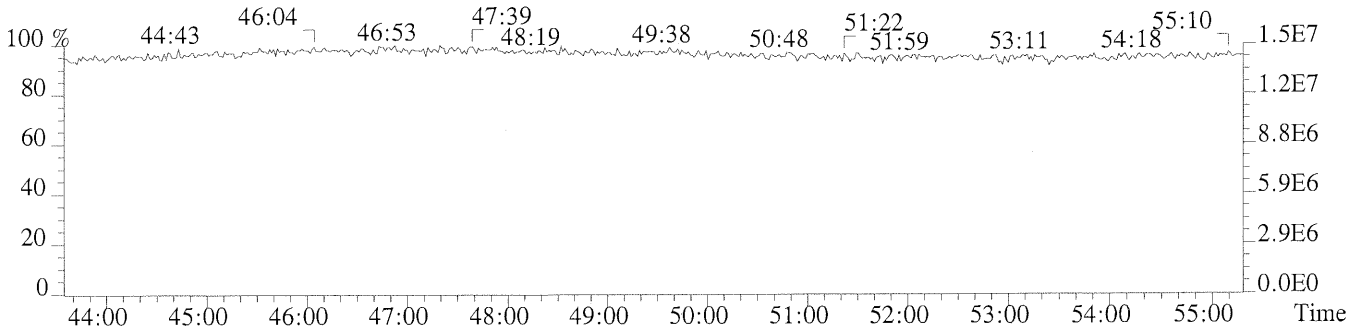
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1248.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)

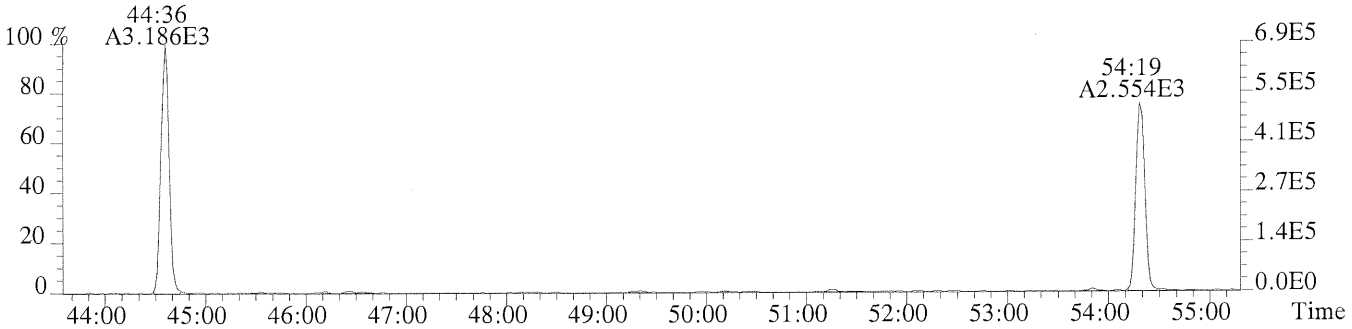


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

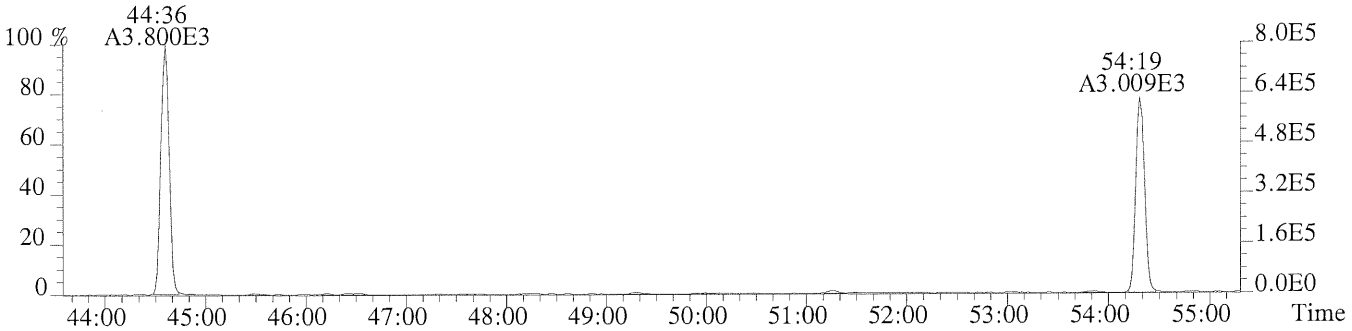


File:U142063 #1-581 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

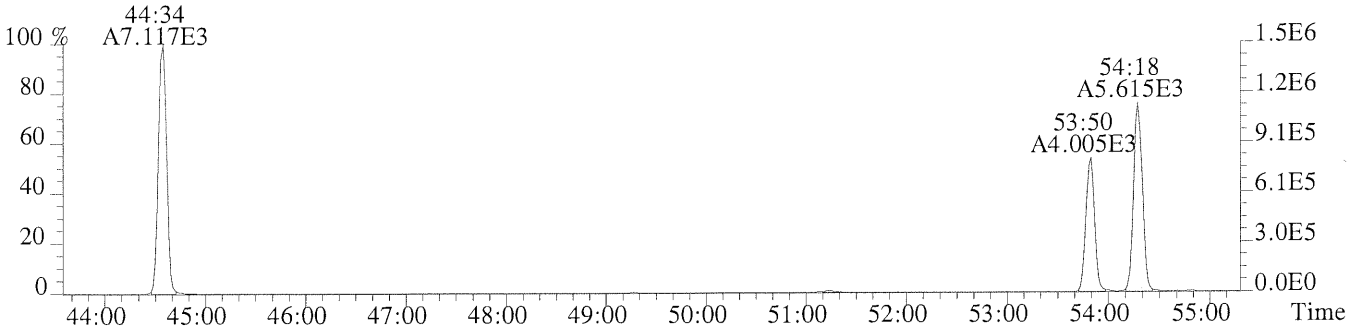
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



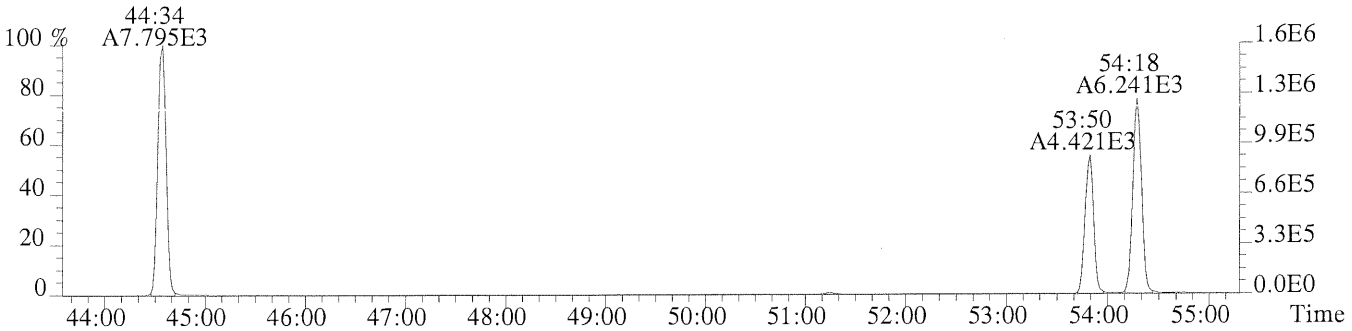
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)



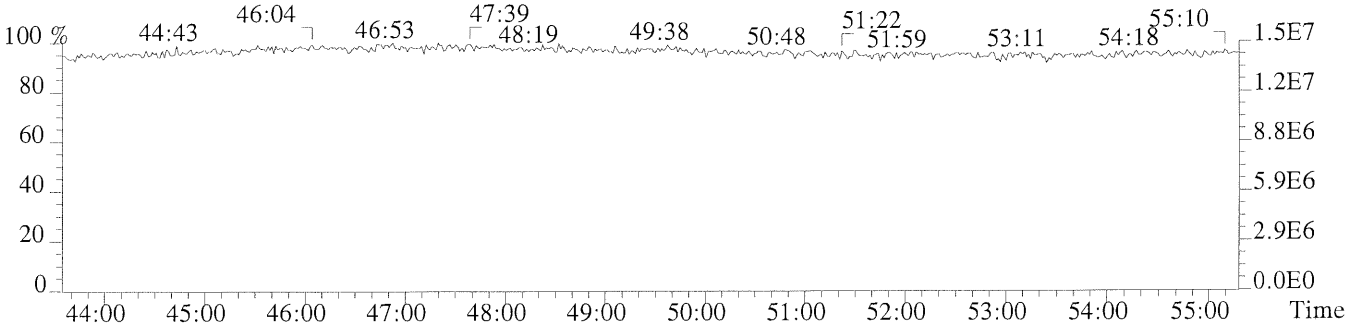
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,988.0,1.00%,F,T)

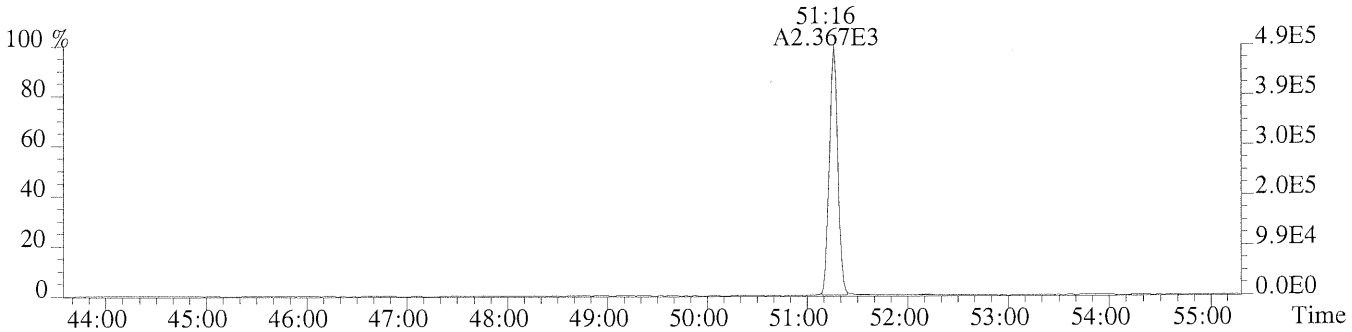


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

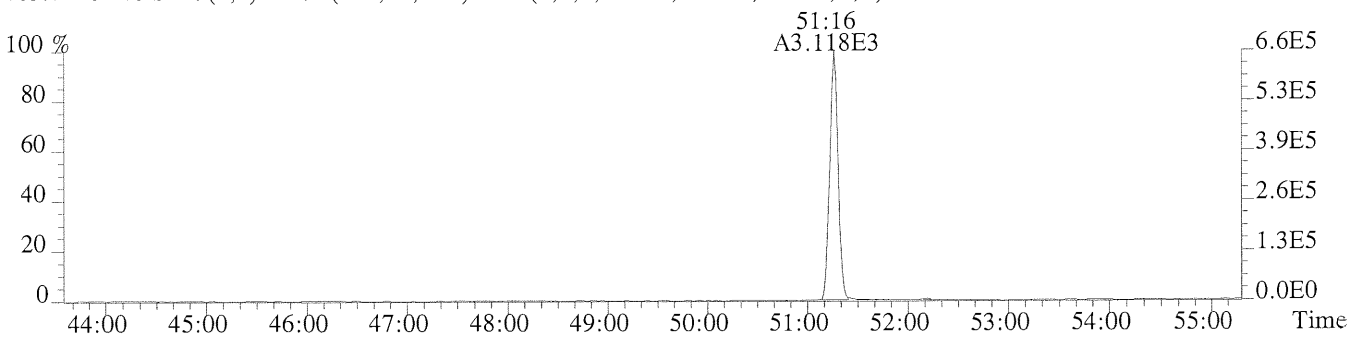


File:U142063 #1-581 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

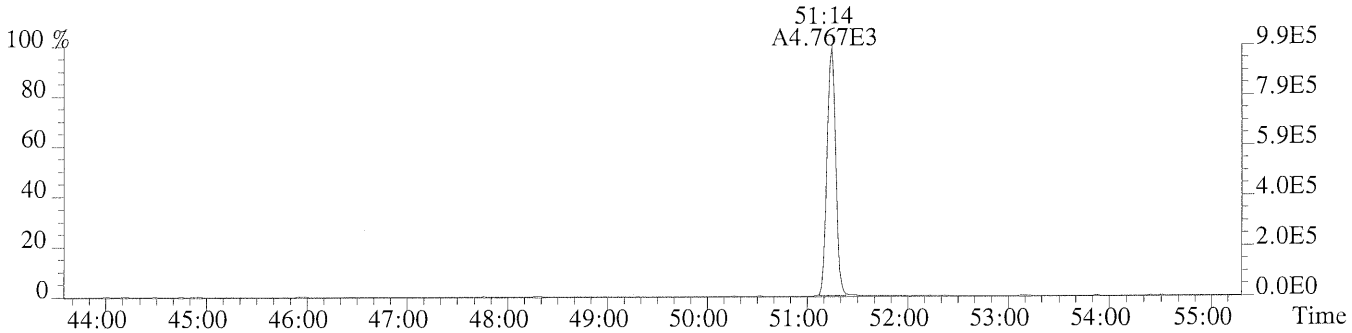
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1060.0,1.00%,F,T)



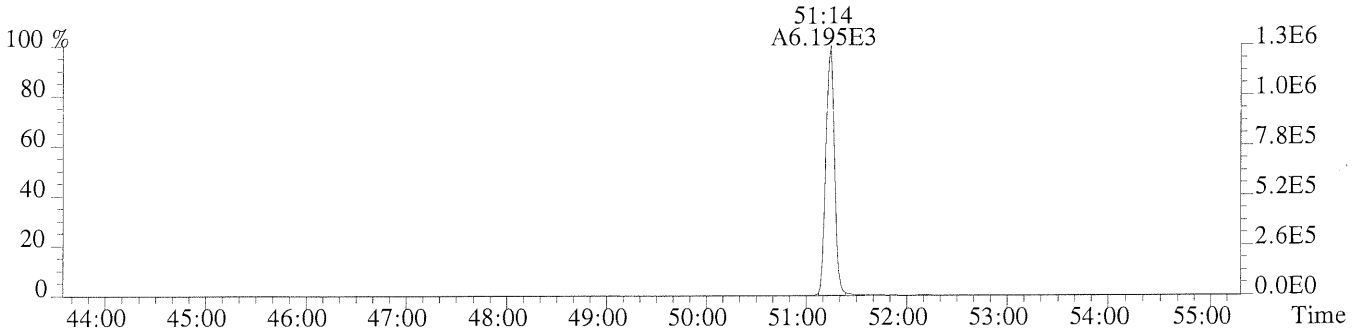
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)



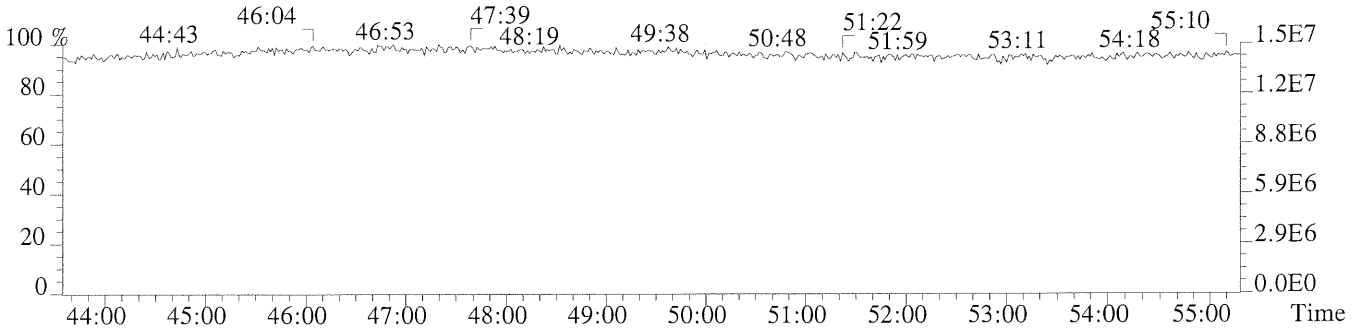
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1072.0,1.00%,F,T)

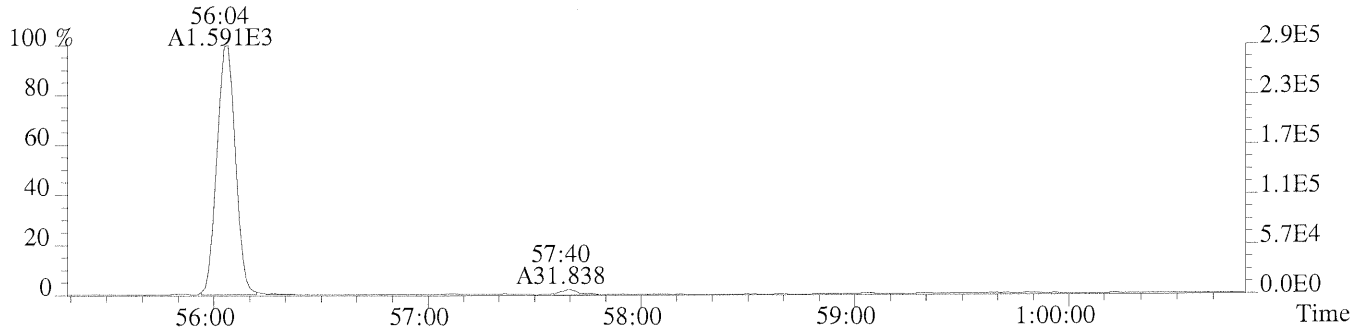


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

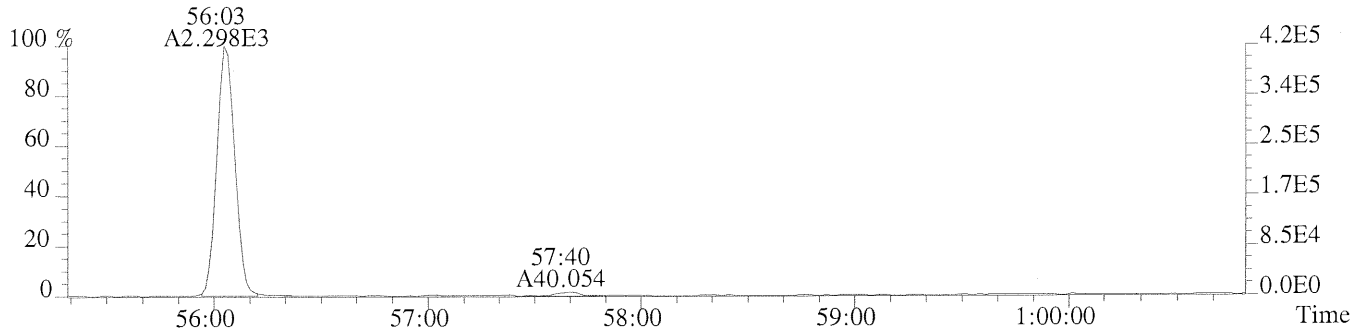


File:U142063 #1-311 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

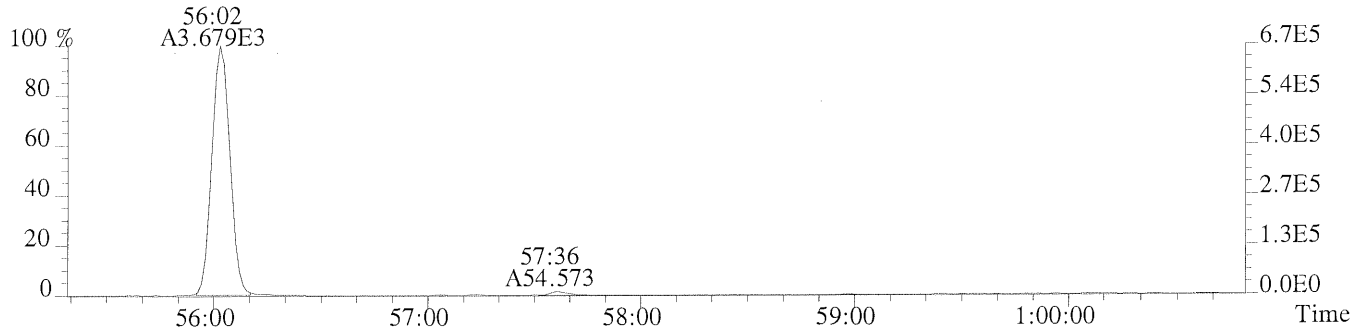
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,980.0,1.00%,F,T)



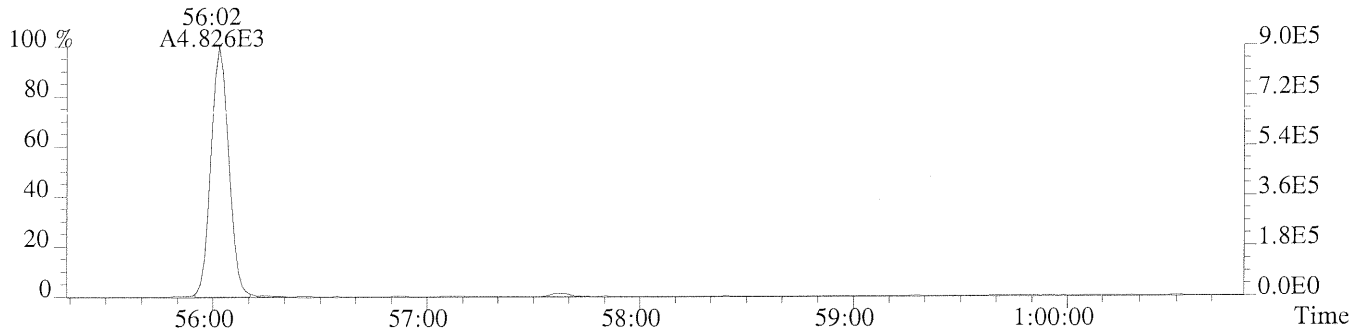
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)



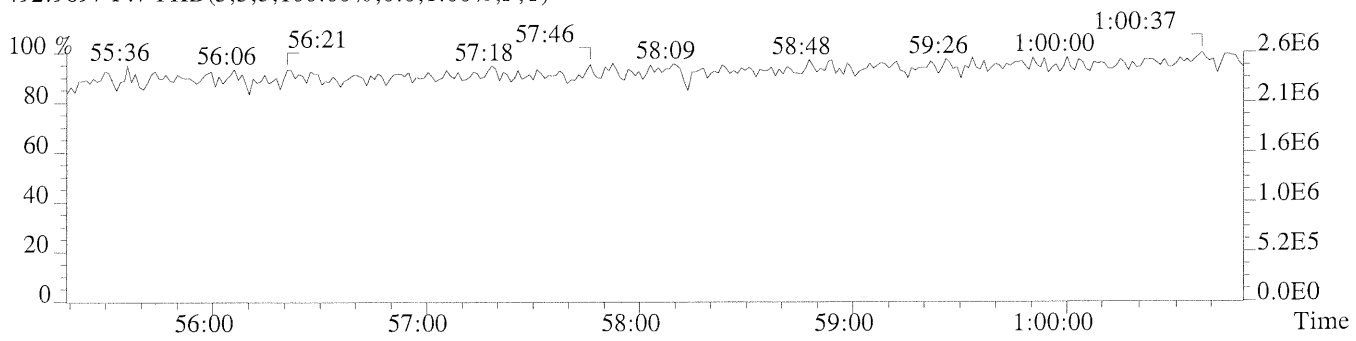
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1100.0,1.00%,F,T)

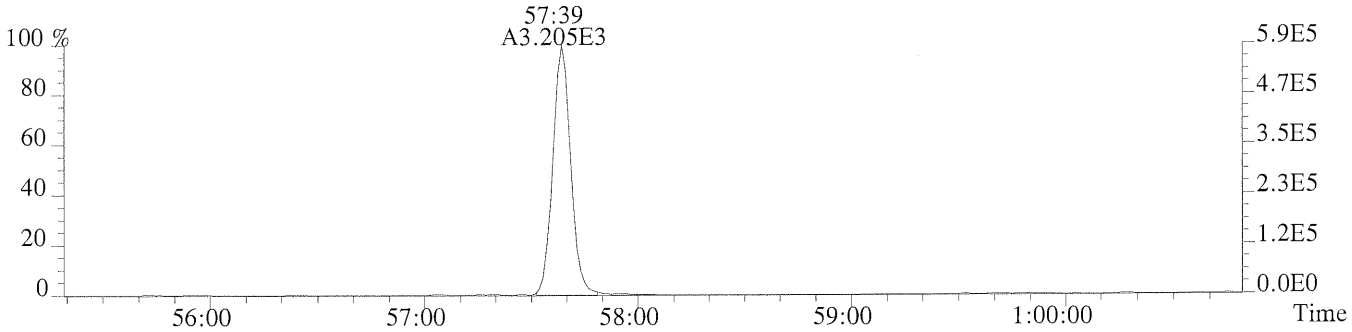


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

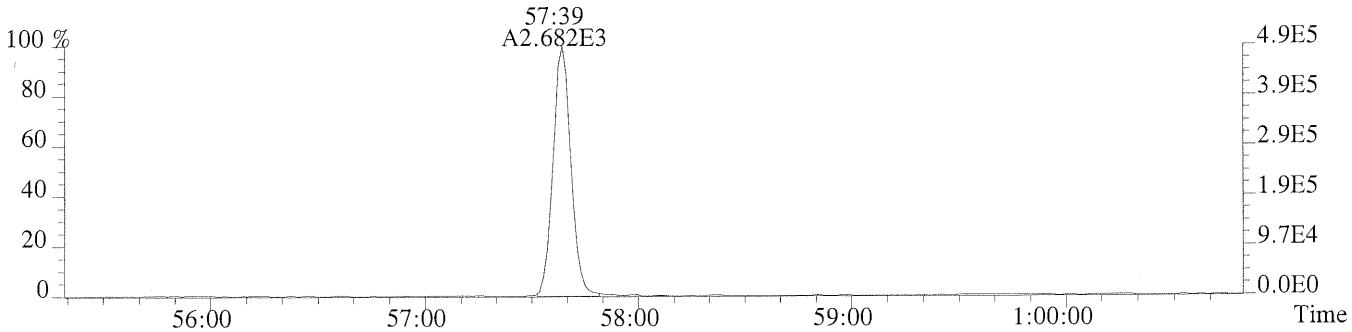


File:U142063 #1-311 Acq: 8-NOV-2011 06:56:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

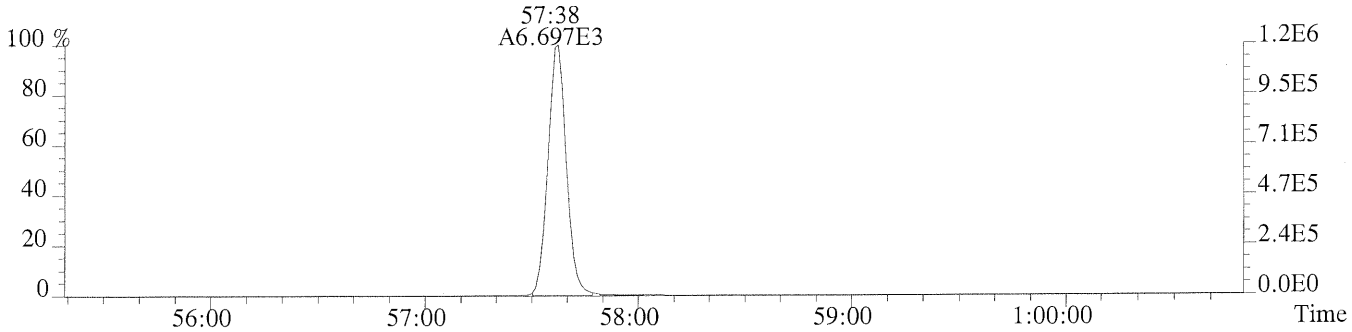
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



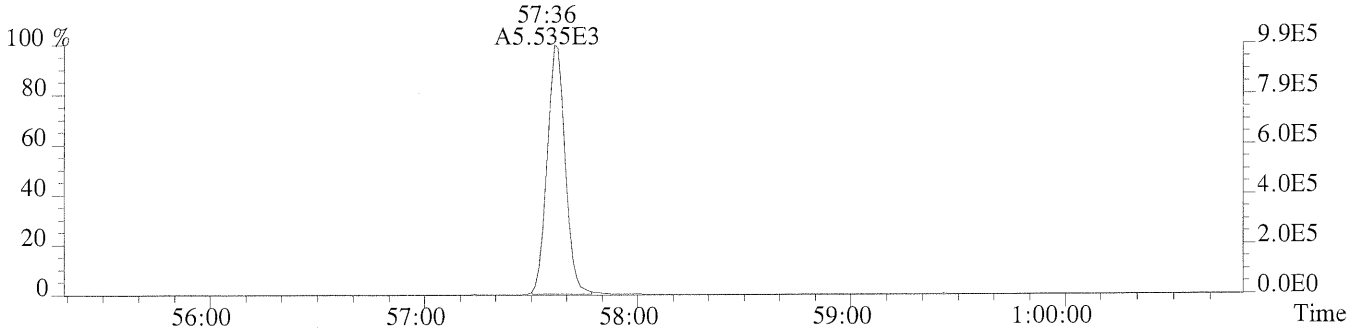
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,800.0,1.00%,F,T)



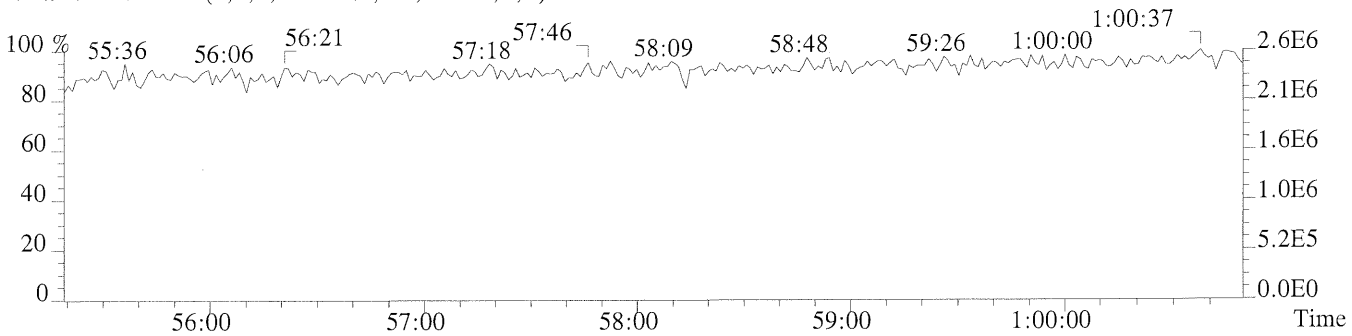
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



RW/CS3 Daily Calibration QC Checklist

Calibration File Name: U142083

Circle one
Beginning **Ending**

Date: 11 Nov 11

Method: **1668 WHO** **1668 Total** **1668 (209)** **1668 WHO & TOTAL**

Date 11/12/11	**First Reviewer**		

Date 11/21/11	**Second Reviewer**		

5DFC
PCDD/PCDF/PCB ANALYTICAL SEQUENCE SUMMARY

Lab Name: Columbia Analytical Services Contract:

Lab Code: TX01411 Case No.: SDG No.:

GC Column: SPB-OCTYL ID: 0.25 (mm) Instrument ID: E-HRMS-01

Init. Calib. Date: 02/23/11

Init. Calib.Times: 09:22

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, AND LABORATORY CONTROL SAMPLES (LCSs) IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CCAL CS3		U142083	11-NOV-11	05:48:26
DCCS-209	B4-25-1	U142082	11-NOV-11	04:31:26
DCCS-209	B4-25-1	U142082	11-NOV-11	04:31:26
METHOD BLANK	EQ1100505-01	U142084	11-NOV-11	07:19:22
BISB-A19-SS-PCBs	E1101034-018	U142085	11-NOV-11	08:21:04
BISB-E23-SS-PCBs	E1101034-019	U142086	11-NOV-11	09:29:14
BISB-K8-SS-PCBs	E1101034-020	U142087	11-NOV-11	10:37:21
BISB-B27-SS-PCBs	E1101034-021	U142088	11-NOV-11	11:45:38
BLANK-SS-PCBs	E1101034-022	U142089	11-NOV-11	12:53:45
BLANK-PCBs	E1101034-023	U142090	11-NOV-11	14:01:53
B4CS-CS1-PCBs	E1101017-004DL	U142091	11-NOV-11	15:25:12

Sample List Report MassLynx 4.1

Sample List: C:\MassLynx\CASHOUSTON.PRO\SampleDB\U1111111.SPL
Last Modified: Friday, November 11, 2011 15:24:57 Central Standard Time
Printed: Friday, November 11, 2011 17:03:51 Central Standard Time

Columbia Analytical Services
19408 Park Row
Suite 320
Houston, Texas 77084

Page Position (1, 1)

C: U142083CAL/RES/SURR

	Date	Time	File Name	Sample ID	Client ID	Analyst	Comments	GC Met	Acq Met
1	11/11/11	04:31	U142082	PCB 209 INJECTION	B4-25-1		HRMS check 04:28	1668EPA	1668EPA
2		05:48	U142083	CCAL CS3	B2-26-1			1668EPA	1668EPA
3		07:19	U142084	EQ1100505-01	MB			1668EPA	1668EPA
4		08:21	U142085	E1101034-018	BISB-A19-SS-PCBs			1668EPA	1668EPA
5		09:29	U142086	E1101034-019	BISB-E23-SS-PCBs			1668EPA	1668EPA
6		10:37	U142087	E1101034-020	BISB-K8-SS-PCBs			1668EPA	1668EPA
7		11:45	U142088	E1101034-021	BISB-B27-SS-PCBs			1668EPA	1668EPA
8		12:53	U142089	E1101034-022	Blank-SS-PCBs			1668EPA	1668EPA
9		14:01	U142090	E1101034-023	Blank-PCBs			1668EPA	1668EPA
10		15:25	U142091	E1101017-004DL	B4CS-CS1-PCBs		HRMS check 16:58	1668EPA	1668EPA
11			---	---	---			1668EPA	1668EPA
12			---	---	---			1668EPA	1668EPA
13			---	---	---			1668EPA	1668EPA
14			---	---	---			1668EPA	1668EPA
15			---	---	---			1668EPA	1668EPA
16			---	---	---			1668EPA	1668EPA
17			---	---	---			1668EPA	1668EPA
18			---	---	---			1668EPA	1668EPA
19			---	---	---			---	---
20			---	---	---			---	---
21			---	---	---			TCDFCAS	TCDFCAS
22			---	---	---			1668EPA	1668EPA
23			---	---	---			---	---
24			---	---	---			---	---
25			---	---	---			TCDFCAS	TCDFCAS
26			---	---	---			TCDFCAS	TCDFCAS
27			---	---	---			1668EPA	1668EPA
28			---	---	---			1668EPA	1668EPA
29			---	---	---			8290cas	8290CAS
30			---	---	---			TCDFCAS	TCDFCAS
31			---	---	---			---	---
32			---	---	---			---	---
33	---	---	---	---	---	---	---	---	---
34	---	---	---	---	---	---	---	---	---
35	---	---	---	---	---	---	---	---	---
36	---	---	---	---	---	---	---	---	---
37	---	---	---	---	---	---	---	---	---
38	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---

Solvent dilution
ZZ
11/11/11

Reviewed By: CR
11/17/11

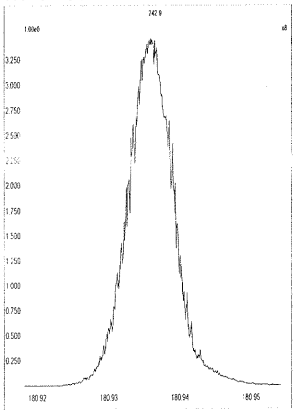
083

Experiment Calibration Report **MassLynx 4.1**

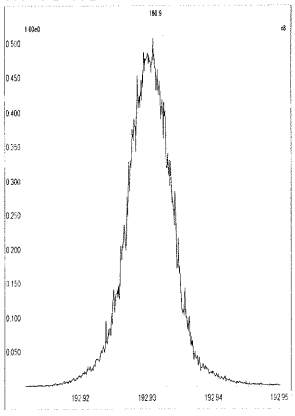
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, November 11, 2011 04:28:04 Central Standard Time

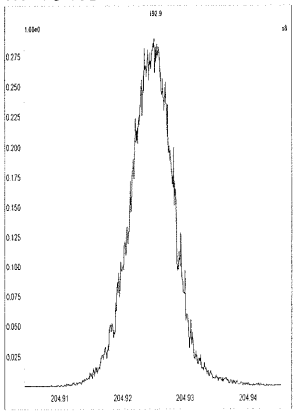
M 180.9888 R 11465



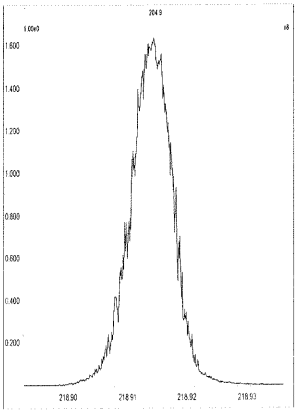
M 192.9888 R 11960



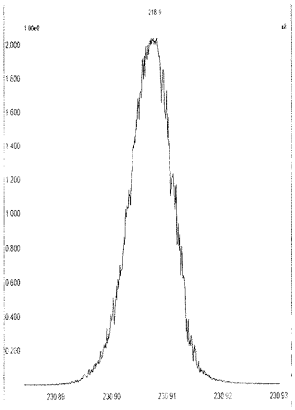
M 204.9888 R 11792



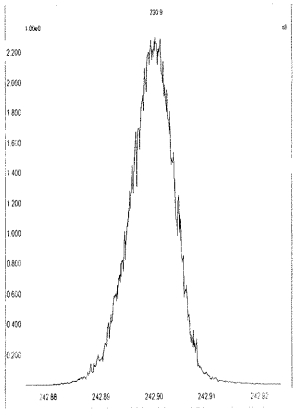
M 218.9856 R 13365



M 230.9856 R 12688



M 242.9856 R 11903

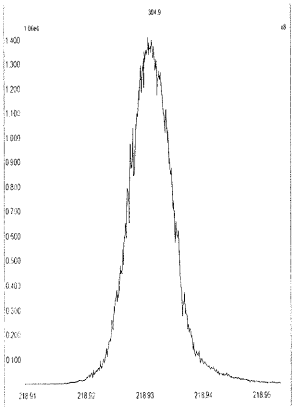


Experiment Calibration Report **MassLynx 4.1**

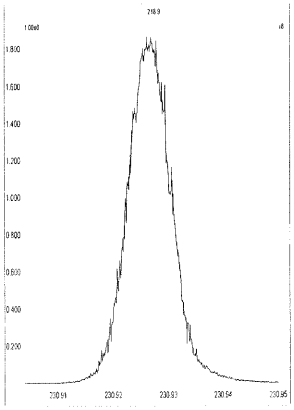
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, November 11, 2011 04:28:29 Central Standard Time

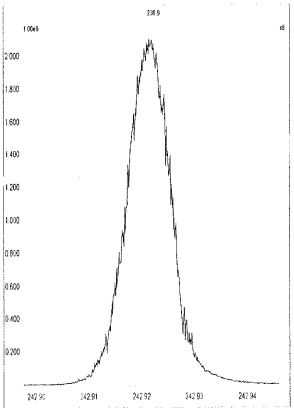
M 218.9856 R 12021



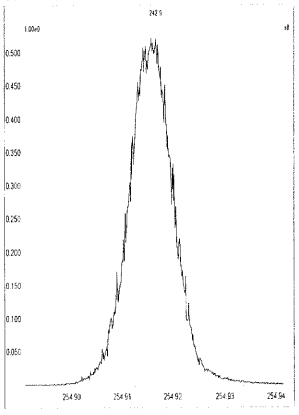
M 230.9856 R 12254



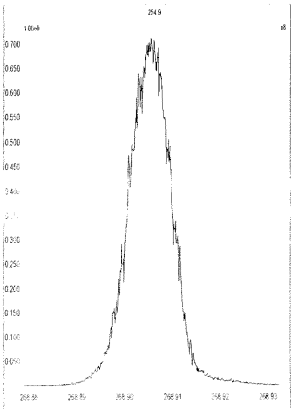
M 242.9856 R 11682



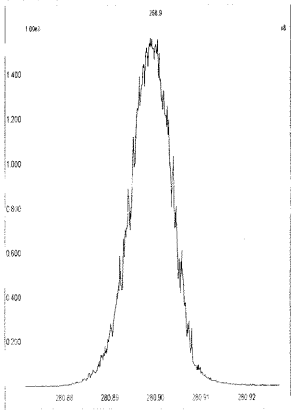
M 254.9856 R 12316



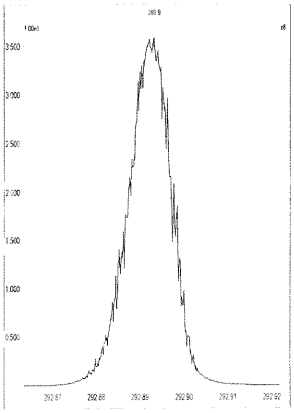
M 268.9824 R 13300



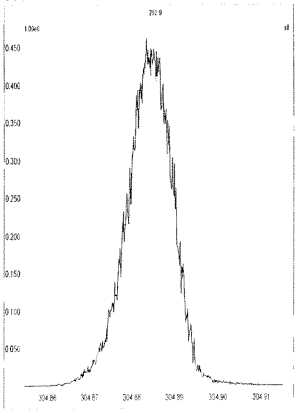
M 280.9824 R 12959



M 292.9824 R 12751



M 304.9824 R 12315

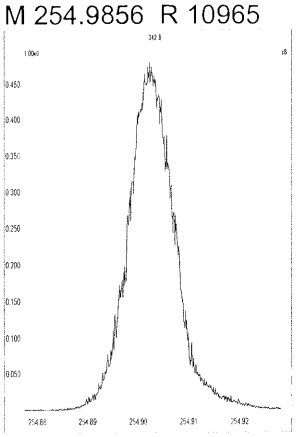


Experiment Calibration Report **MassLynx 4.1**

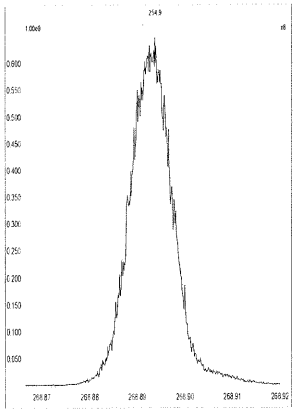
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, November 11, 2011 04:28:55 Central Standard Time

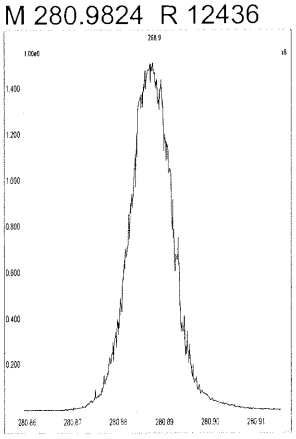
M 254.9856 R 10965



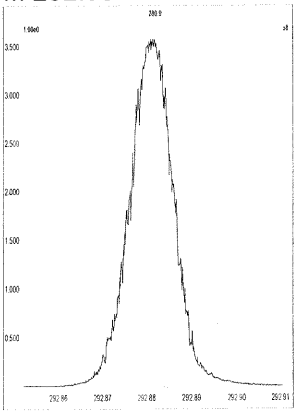
M 268.9824 R 12564



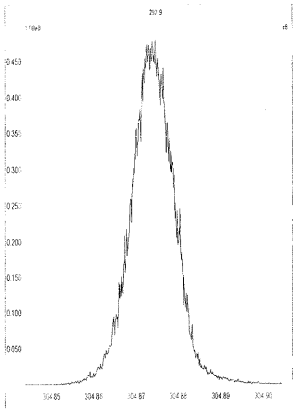
M 280.9824 R 12436



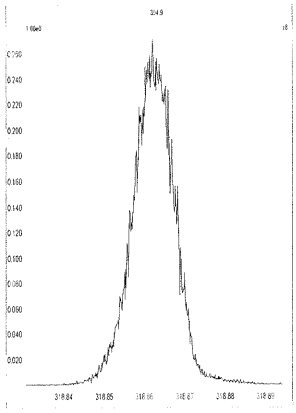
M 292.9824 R 12502



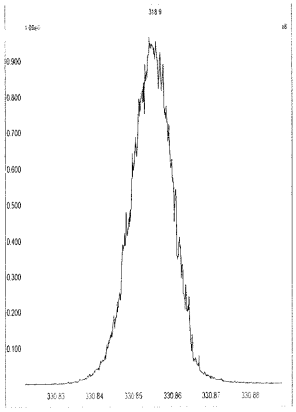
M 304.9824 R 13089



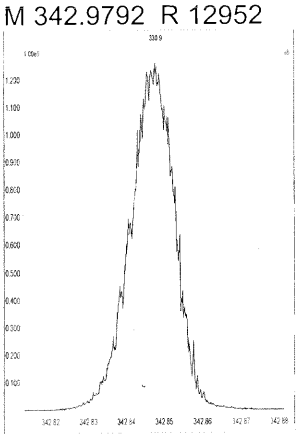
M 318.9792 R 13087



M 330.9792 R 12822



M 342.9792 R 12952

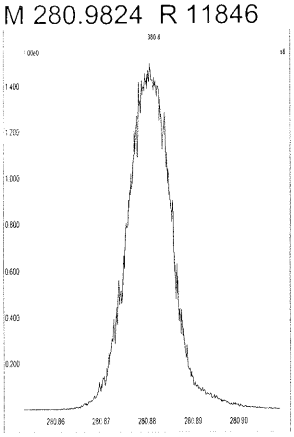


Experiment Calibration Report **MassLynx 4.1**

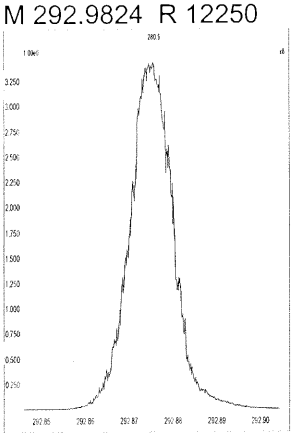
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, November 11, 2011 04:29:18 Central Standard Time

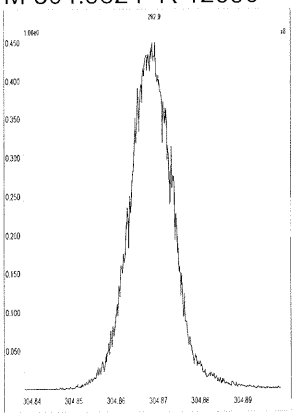
M 280.9824 R 11846



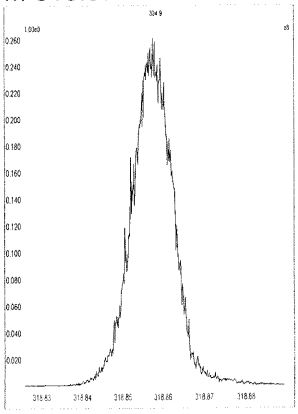
M 292.9824 R 12250



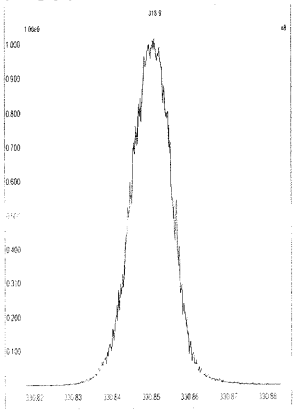
M 304.9824 R 12690



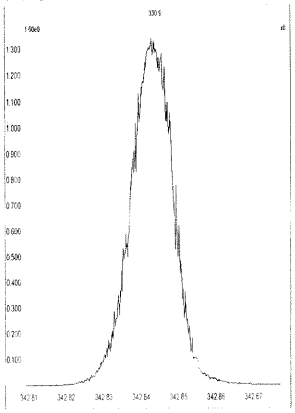
M 318.9792 R 13155



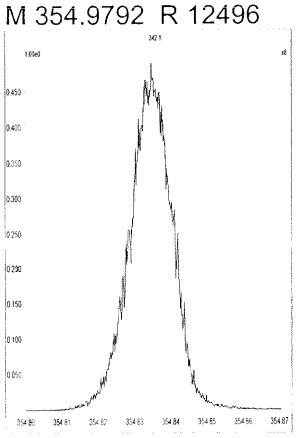
M 330.9792 R 13222



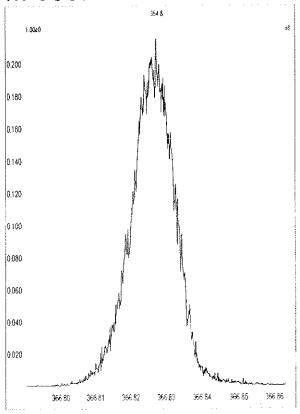
M 342.9792 R 13025



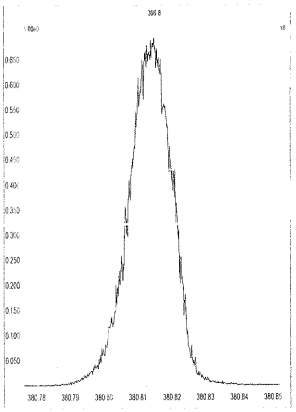
M 354.9792 R 12496



M 366.9792 R 12755



M 380.9760 R 13156

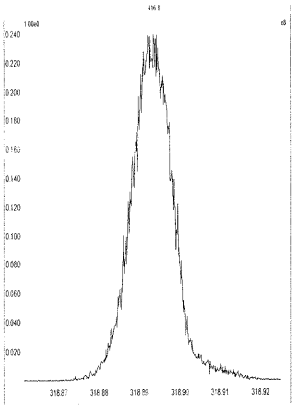


Experiment Calibration Report **MassLynx 4.1**

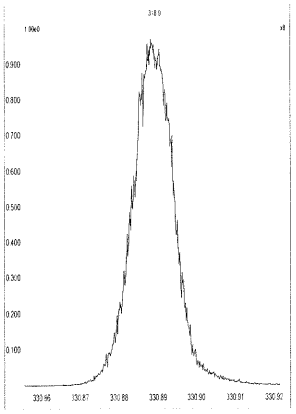
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, November 11, 2011 04:29:46 Central Standard Time

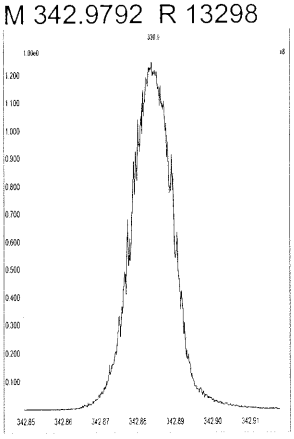
M 318.9792 R 12562



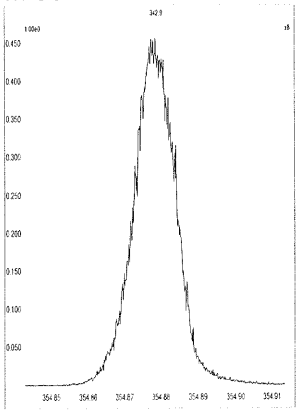
M 330.9792 R 12950



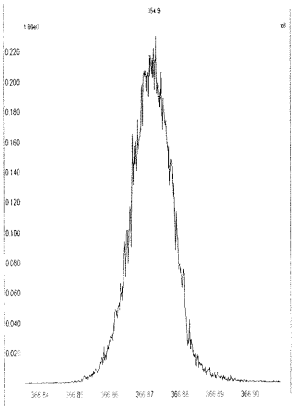
M 342.9792 R 13298



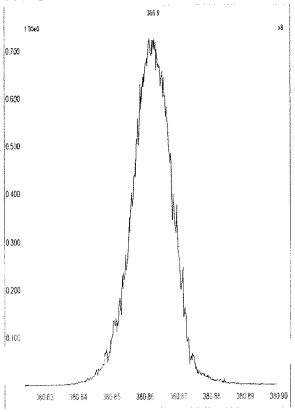
M 354.9792 R 12951



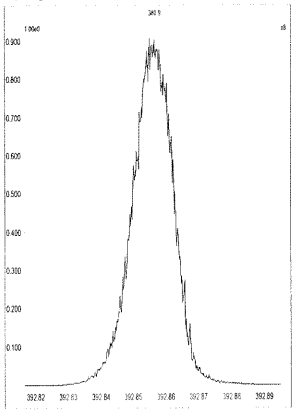
M 366.9792 R 12888



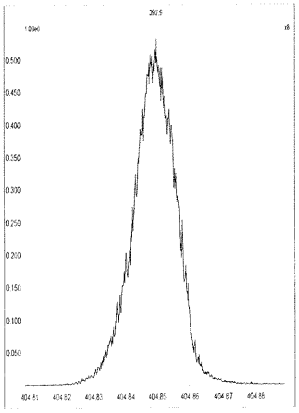
M 380.9760 R 13440



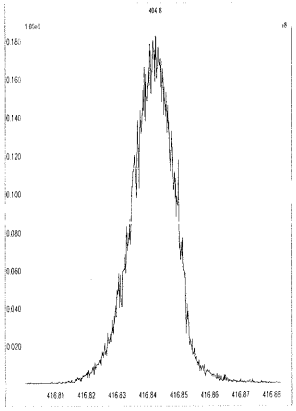
M 392.9760 R 13584



M 404.9760 R 12756



M 416.9760 R 12499

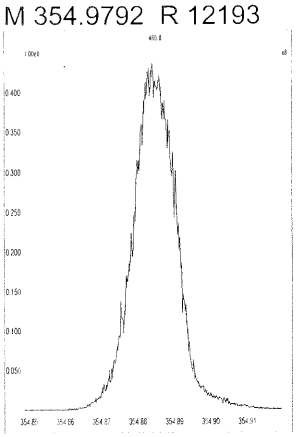


Experiment Calibration Report **MassLynx 4.1**

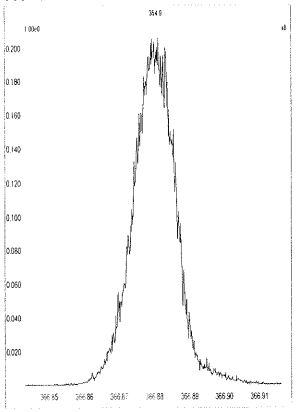
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Friday, November 11, 2011 04:30:14 Central Standard Time

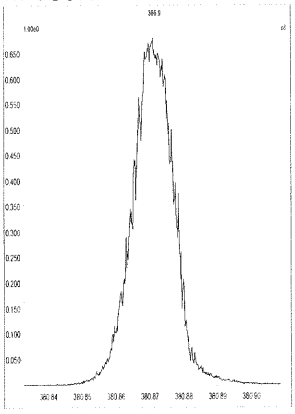
M 354.9792 R 12193



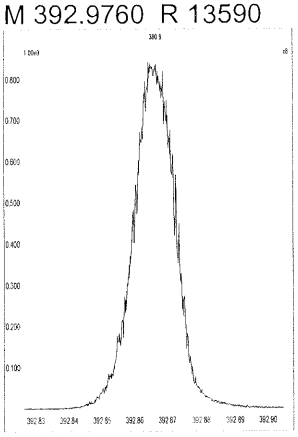
M 366.9792 R 13365



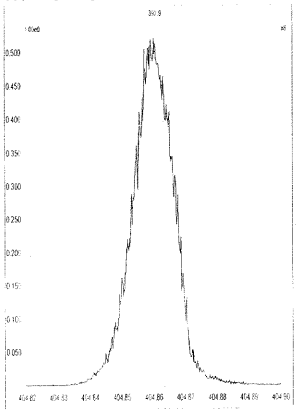
M 380.9760 R 13587



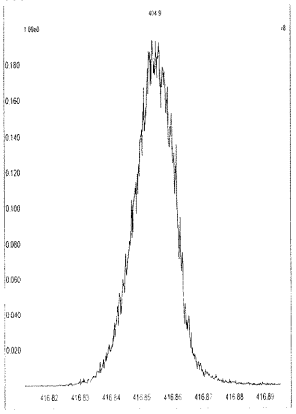
M 392.9760 R 13590



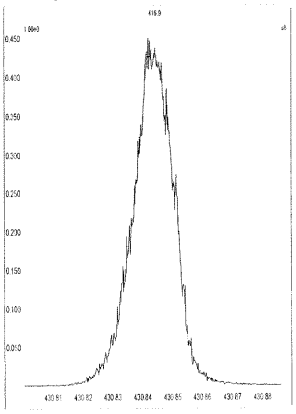
M 404.9760 R 13090



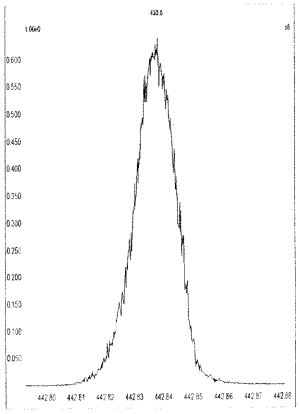
M 416.9760 R 12819



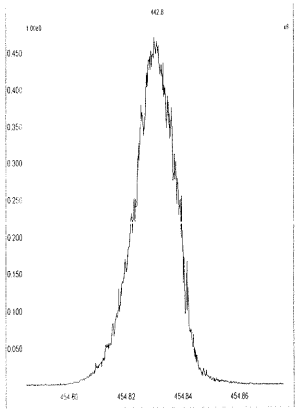
M 430.9728 R 13086



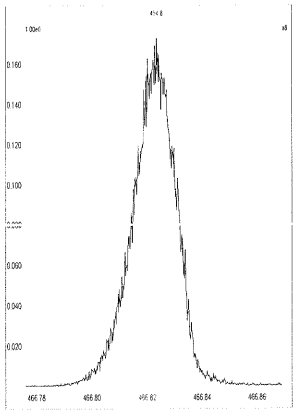
M 442.9728 R 13514



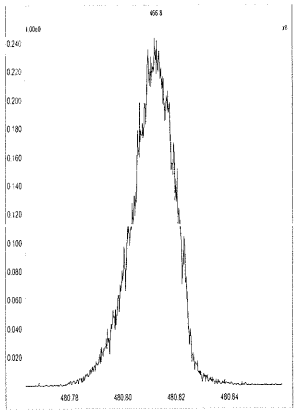
M 454.9728 R 12885



M 466.9728 R 12954



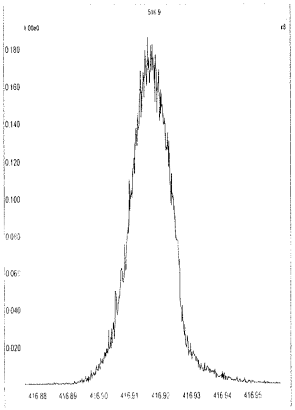
M 480.9696 R 12953



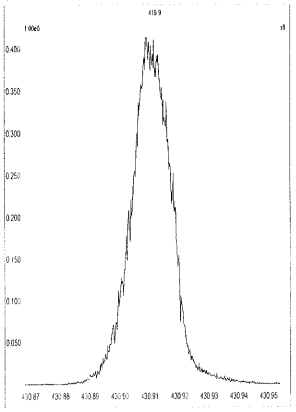
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

Printed: Friday, November 11, 2011 04:30:39 Central Standard Time

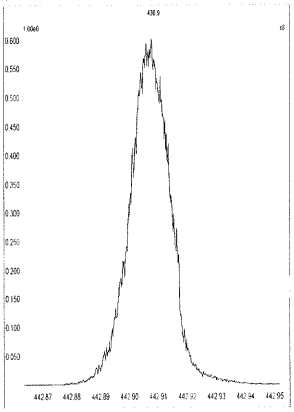
M 416.9760 R 12888



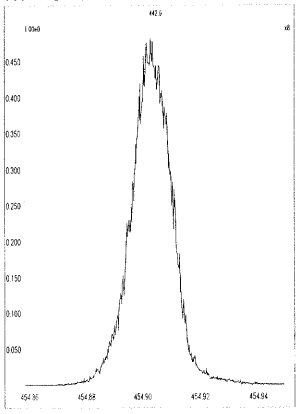
M 430.9728 R 13227



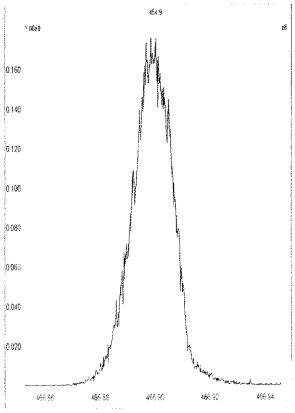
M 442.9728 R 13439



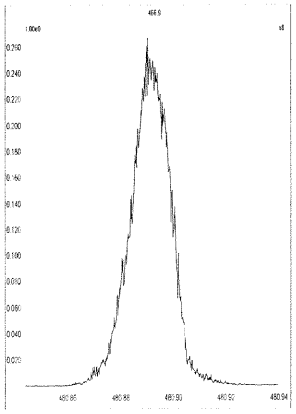
M 454.9728 R 13224



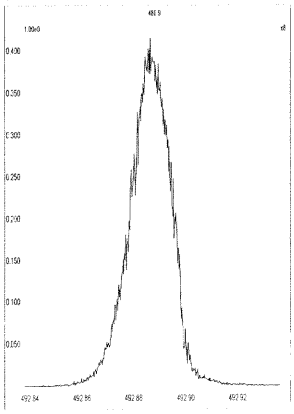
M 466.9728 R 13157



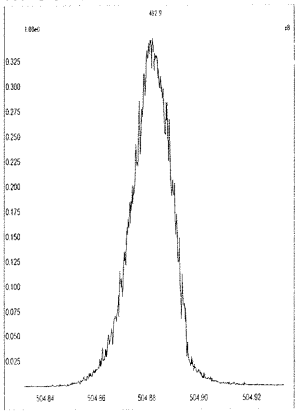
M 480.9696 R 13814



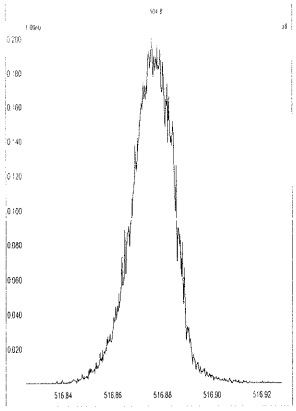
M 492.9696 R 13514



M 504.9696 R 13296



M 516.9697 R 12688

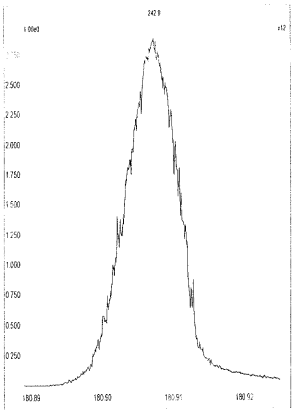


Experiment Calibration Report **MassLynx 4.1**

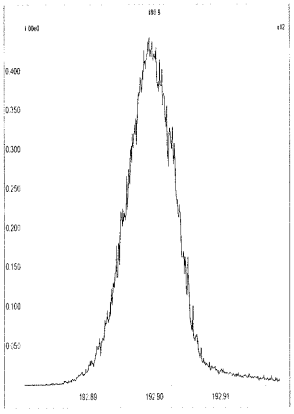
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, November 11, 2011 16:58:09 Central Standard Time

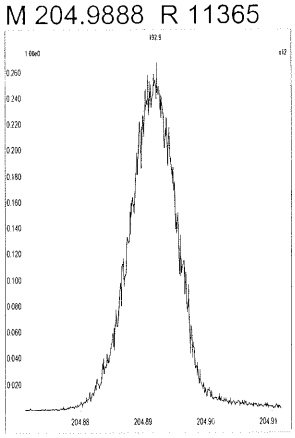
M 180.9888 R 9882



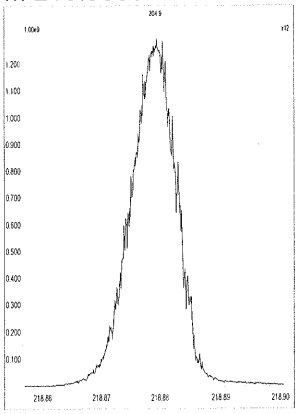
M 192.9888 R 10550



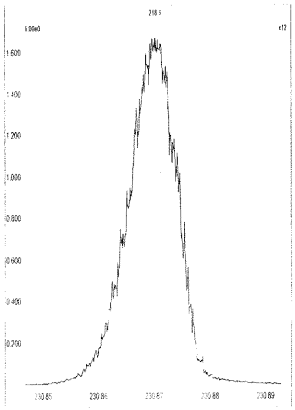
M 204.9888 R 11365



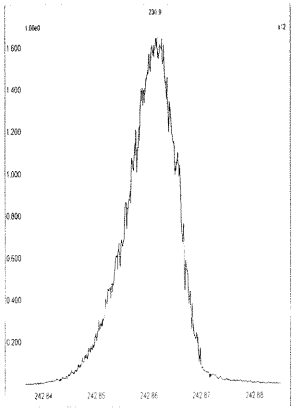
M 218.9856 R 12314



M 230.9856 R 11013



M 242.9856 R 10417

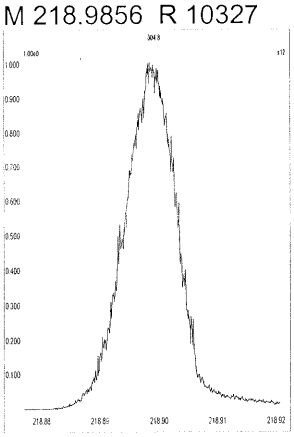


Experiment Calibration Report **MassLynx 4.1**

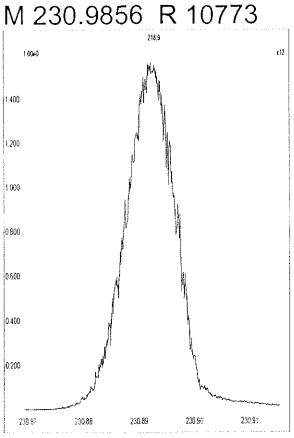
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, November 11, 2011 16:58:34 Central Standard Time

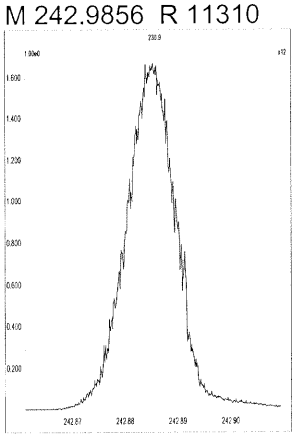
M 218.9856 R 10327



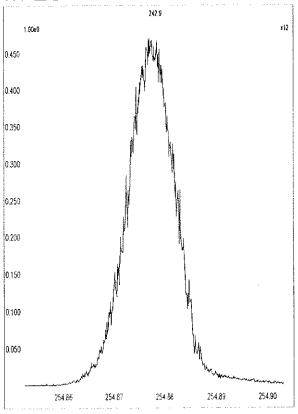
M 230.9856 R 10773



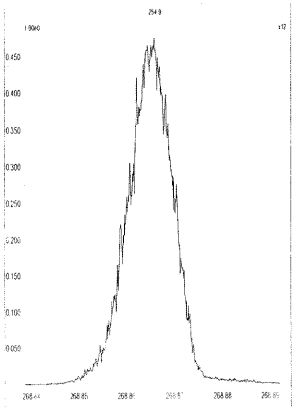
M 242.9856 R 11310



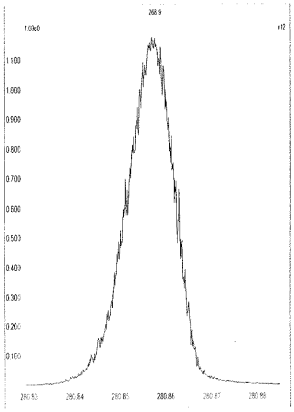
M 254.9856 R 11362



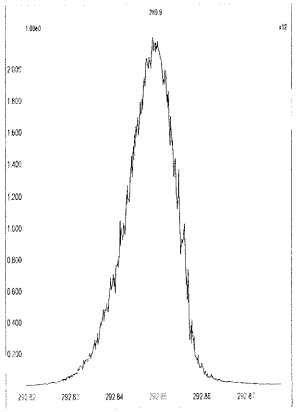
M 268.9824 R 12255



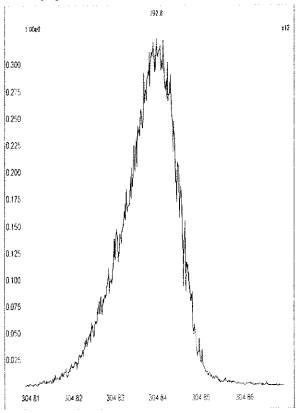
M 280.9824 R 11419



M 292.9824 R 10639



M 304.9824 R 9582

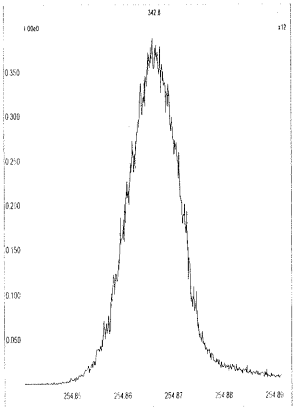


Experiment Calibration Report **MassLynx 4.1**

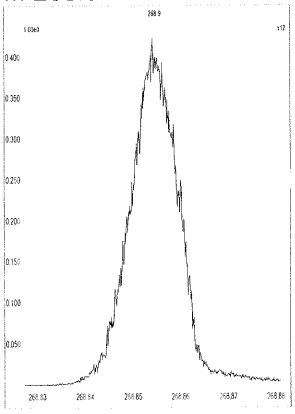
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, November 11, 2011 16:59:24 Central Standard Time

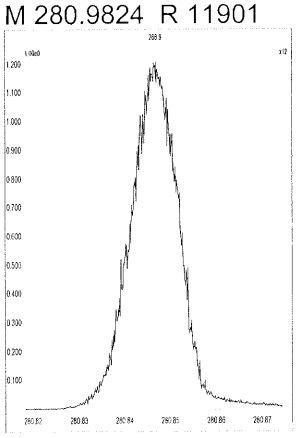
M 254.9856 R 9397



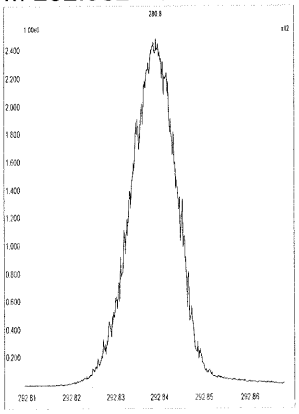
M 268.9824 R 11681



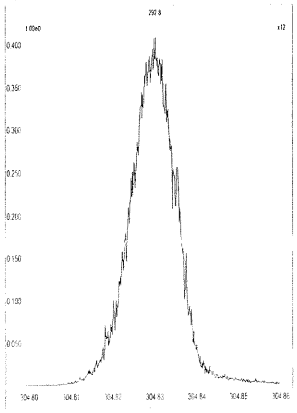
M 280.9824 R 11901



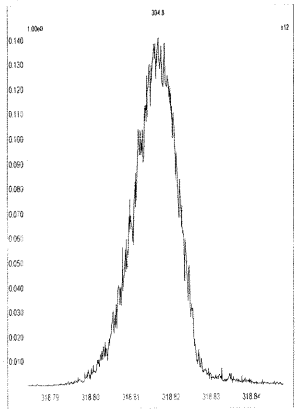
M 292.9824 R 12078



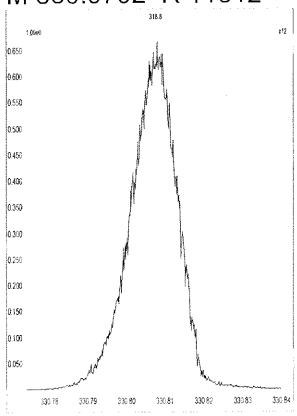
M 304.9824 R 11632



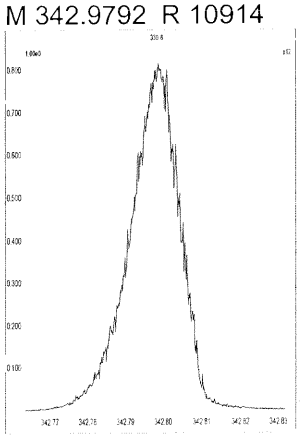
M 318.9792 R 12021



M 330.9792 R 11312



M 342.9792 R 10914

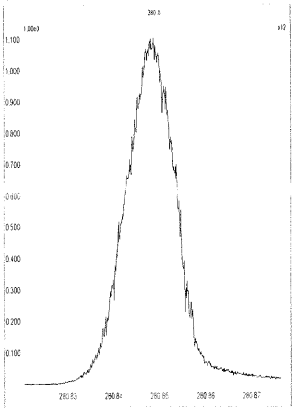


Experiment Calibration Report **MassLynx 4.1**

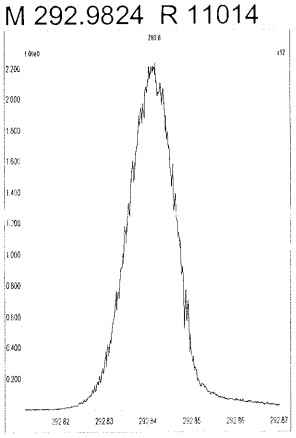
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, November 11, 2011 17:00:03 Central Standard Time

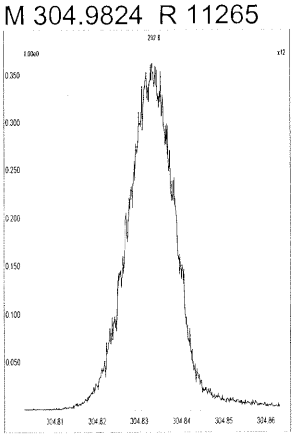
M 280.9824 R 10779



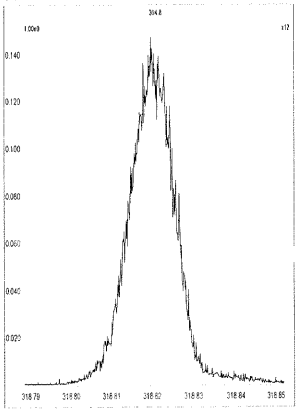
M 292.9824 R 11014



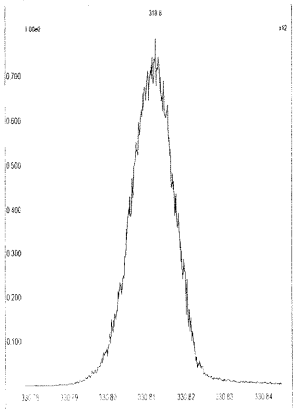
M 304.9824 R 11265



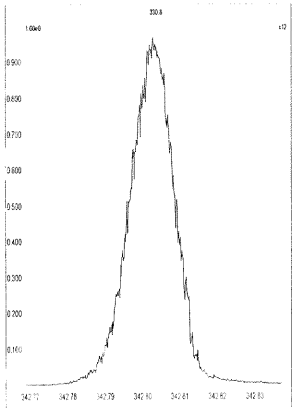
M 318.9792 R 12949



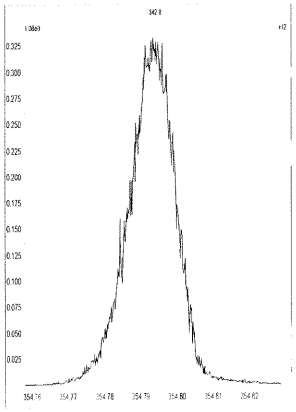
M 330.9792 R 12254



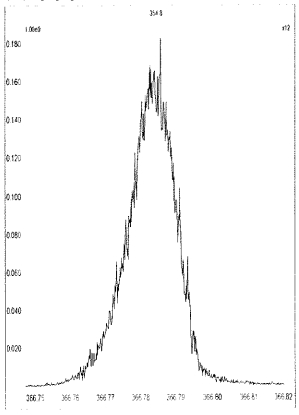
M 342.9792 R 12312



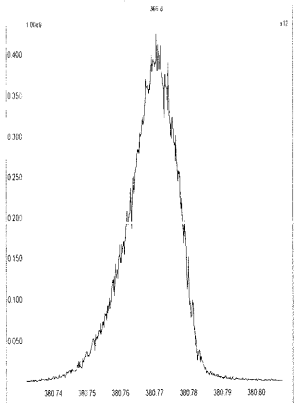
M 354.9792 R 11521



M 366.9792 R 11060



M 380.9760 R 10639

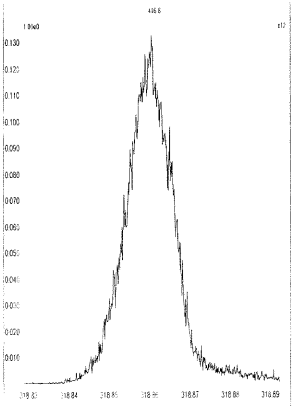


Experiment Calibration Report **MassLynx 4.1**

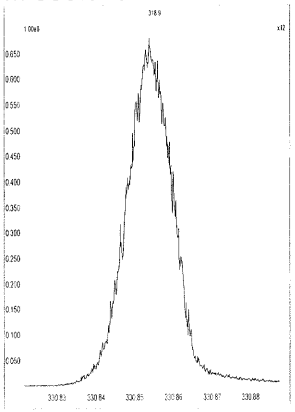
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, November 11, 2011 17:00:46 Central Standard Time

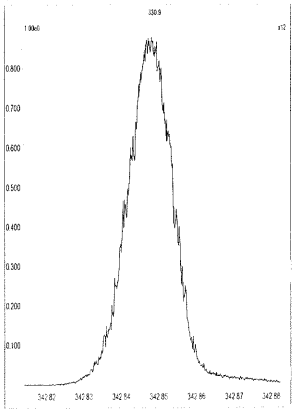
M 318.9792 R 11680



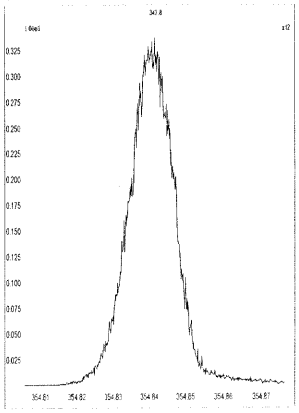
M 330.9792 R 11678



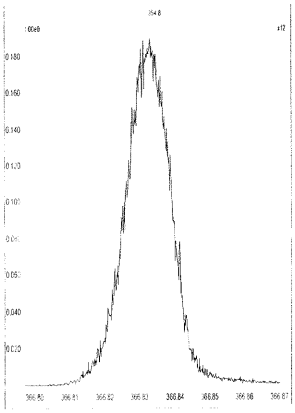
M 342.9792 R 11736



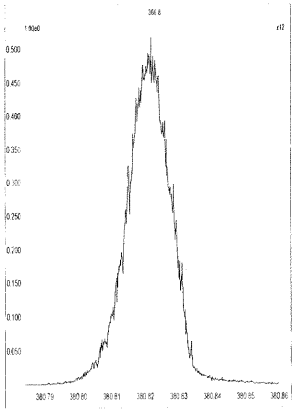
M 354.9792 R 12252



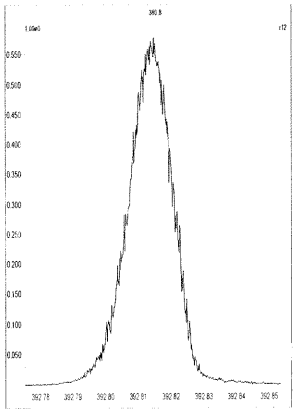
M 366.9792 R 12136



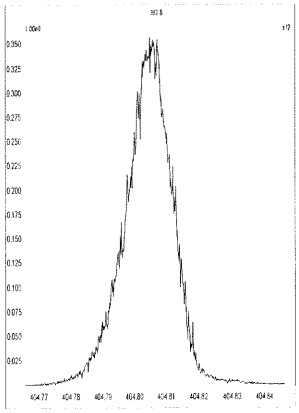
M 380.9760 R 12624



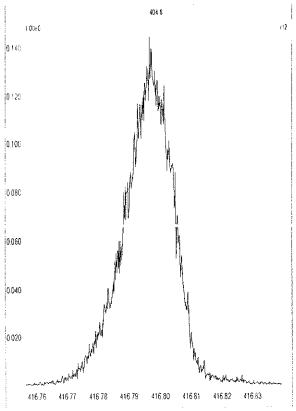
M 392.9760 R 12251



M 404.9760 R 11792



M 416.9760 R 11208

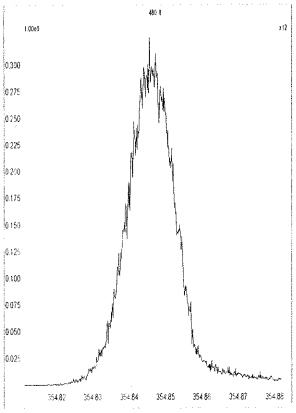


Experiment Calibration Report **MassLynx 4.1**

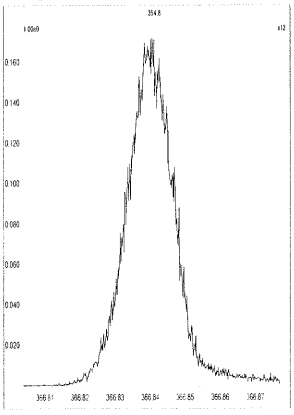
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Friday, November 11, 2011 17:01:37 Central Standard Time

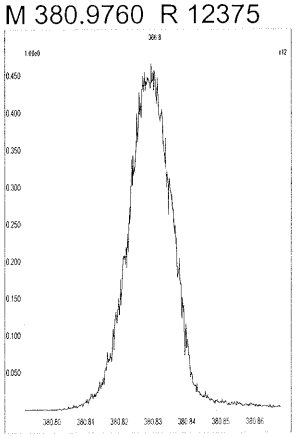
M 354.9792 R 10962



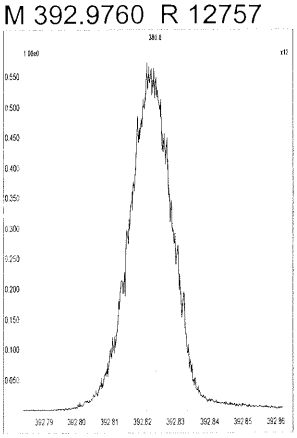
M 366.9792 R 11111



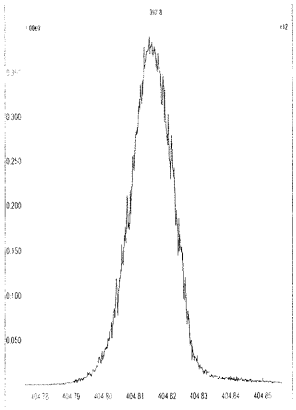
M 380.9760 R 12375



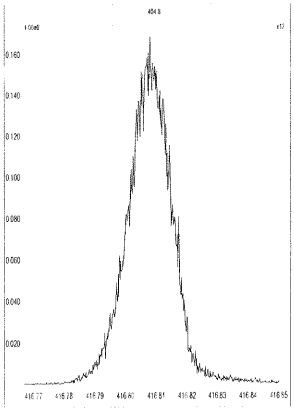
M 392.9760 R 12757



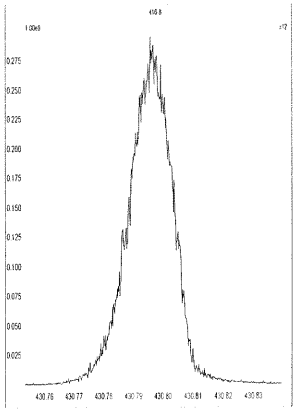
M 404.9760 R 12626



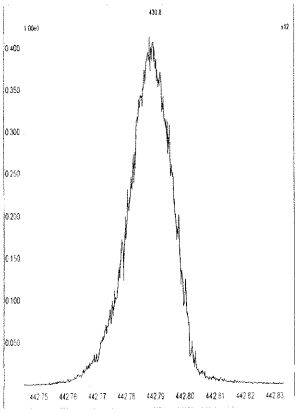
M 416.9760 R 12374



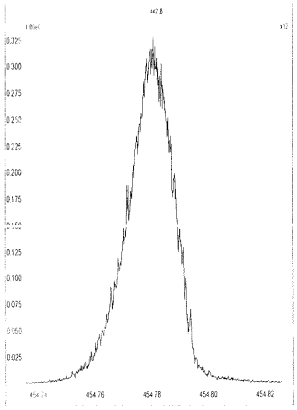
M 430.9728 R 12559



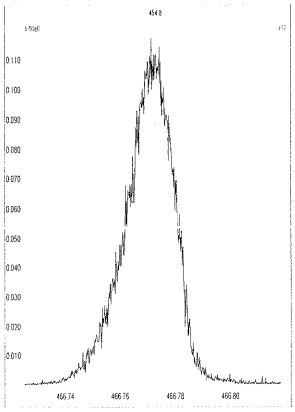
M 442.9728 R 12135



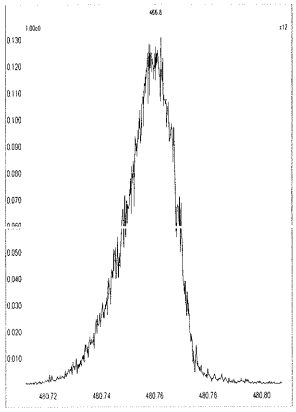
M 454.9728 R 11794



M 466.9728 R 11111



M 480.9696 R 10915

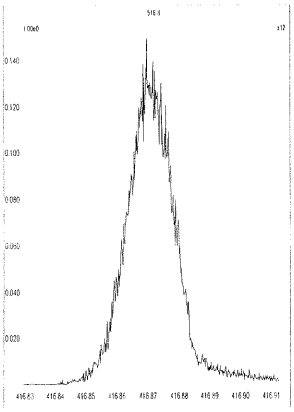


Experiment Calibration Report **MassLynx 4.1**

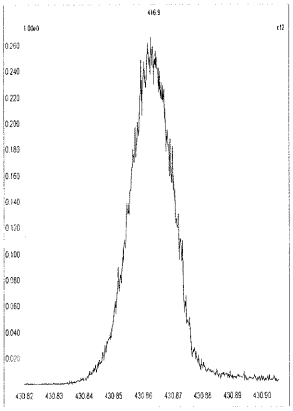
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

Printed: Friday, November 11, 2011 17:02:30 Central Standard Time

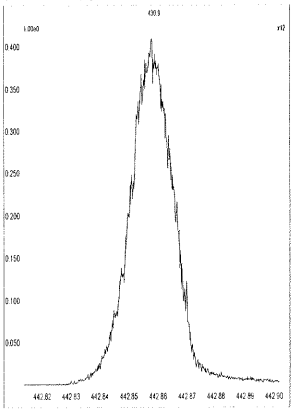
M 416.9760 R 11261



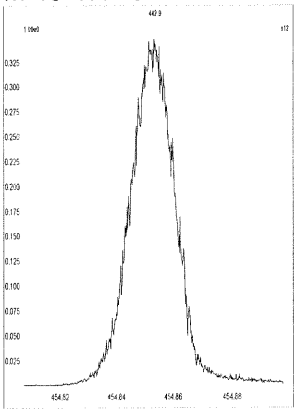
M 430.9728 R 12374



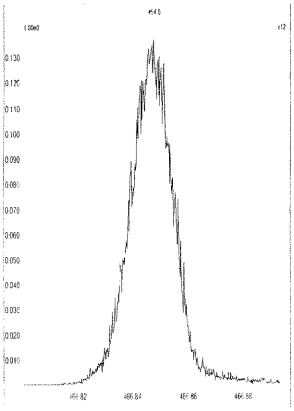
M 442.9728 R 13085



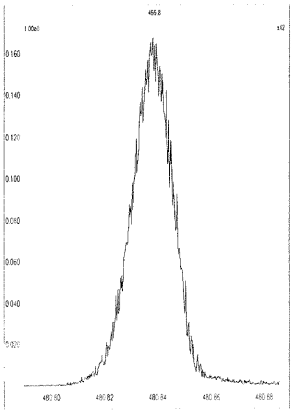
M 454.9728 R 12314



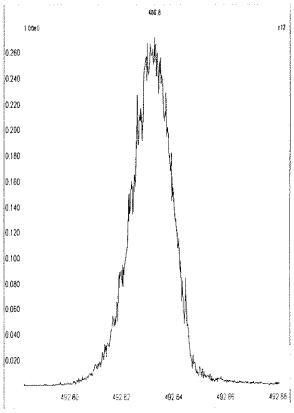
M 466.9728 R 13438



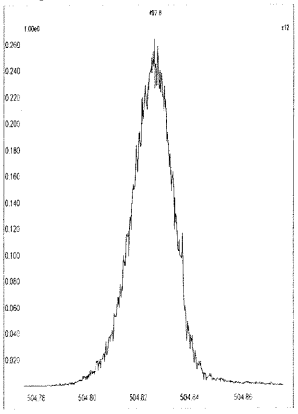
M 480.9696 R 13089



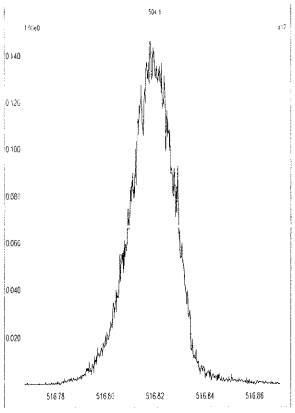
M 492.9696 R 13020



M 504.9696 R 12192



M 516.9697 R 12198



DCCS2091

METHOD 1668
DILUTED COMBINED 209 CONGENER SOLUTION (DCCS-209)

CLIENT ID:

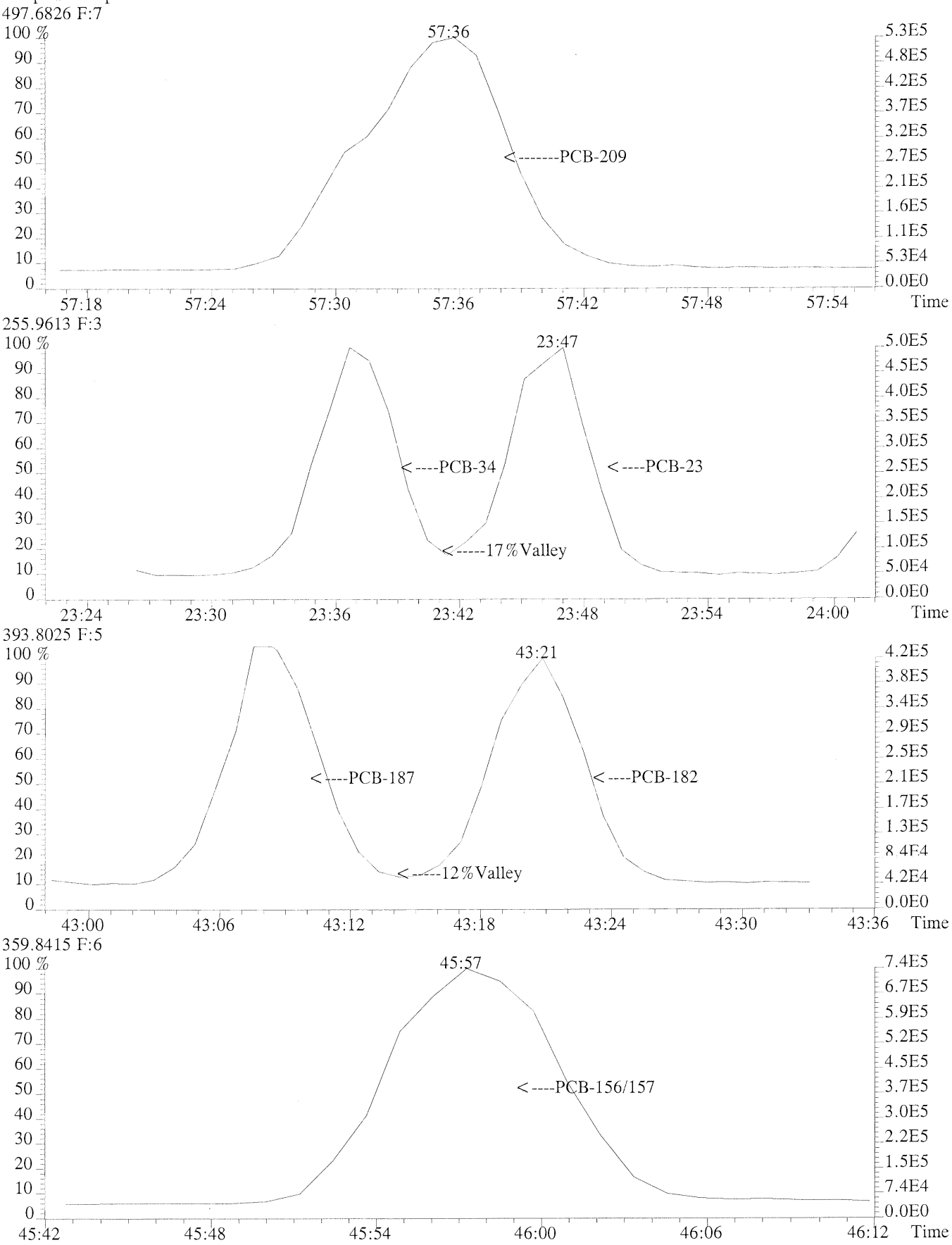
DCCS-209

Lab Name: COLUMBIA ANALYTICAL SERVICES
Lab Code: CAS Case No.: _____ SDG No.:
GC Column: SPB-Octyl ID: 0.25 (mm) Lab File ID: U142082
Date Analyzed: 11-NOV-2011
Time Analyzed: 04:31:26

Retention Time for PCB 209:	(>55 min)	57:36
% Valley between PCB 34 and PCB 23:	(<40%)	17
% Valley between PCB 187 and PCB 182:	(<40%)	12
Seconds of coelution between PCB 156 and PCB 157:	(<2 sec)	0

Reference: Section 6.9.1.1 Method 1668

File:U142082 #1-310 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
DCCS-209

Run #8 Filename U142082 Samp: 1 Inj: 1 Acquired: 11-NOV-11 04:31:26
Processed: 17-NOV-11 10:49:02 Sample ID: B4-25-1

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	n	1.0712
2	1	PCB-2	15:24	3.648e+03	1.153e+03	3.16	y	n	1.0085
3	1	PCB-3	NotFnd	*	*	*	n	n	1.0363
4	1	PCB-4	NotFnd	*	*	*	n	n	1.1136
5	1	PCB-10	16:00	3.180e+03	2.131e+03	1.49	y	n	1.7324
6	2	PCB-9	17:52	2.291e+03	1.533e+03	1.49	y	n	1.2476
7	2	PCB-7	18:02	2.630e+03	1.837e+03	1.43	y	n	1.4573
8	2	PCB-6	18:16	2.414e+03	1.600e+03	1.51	y	n	1.3094
9	2	PCB-5	18:36	2.312e+03	1.566e+03	1.48	y	n	1.2651
10	2	PCB-8	18:44	2.438e+03	1.804e+03	1.35	y	n	1.3838
11	2	PCB-14	20:23	2.397e+03	1.619e+03	1.48	y	n	1.3101
12	2	PCB-11	21:14	2.256e+03	1.684e+03	1.34	y	n	1.2855
13	2	PCB-12/13	21:33	4.627e+03	3.348e+03	1.38	y	n	1.3008
14	2	PCB-15	NotFnd	*	*	*	n	n	0.9770
15	2	PCB-19	NotFnd	*	*	*	n	n	1.0009
16	2	PCB-18/30	20:54	3.474e+03	3.428e+03	1.01	y	n	1.2005
17	2	PCB-17	21:20	1.430e+03	1.392e+03	1.03	y	n	0.9817
18	2	PCB-27	21:33	1.961e+03	1.960e+03	1.00	y	n	1.3639
19	2	PCB-24	21:42	1.983e+03	2.004e+03	0.99	y	n	1.3870
20	2	PCB-16	21:49	1.282e+03	1.273e+03	1.01	y	n	0.8888
21	2	PCB-32	22:20	2.126e+03	2.130e+03	1.00	y	n	1.4804
22	3	PCB-34	23:37	2.139e+03	2.111e+03	1.01	y	n	1.4784
23	3	PCB-23	23:46	2.188e+03	2.100e+03	1.04	y	n	1.4917
24	3	PCB-26/29	24:06	4.560e+03	4.323e+03	1.05	y	n	1.5450
25	3	PCB-25	24:19	2.449e+03	2.185e+03	1.12	y	n	1.6121
26	3	PCB-31	24:38	2.340e+03	2.281e+03	1.03	y	n	1.6073
27	3	PCB-20/28	24:57	4.627e+03	4.489e+03	1.03	y	n	1.5856
28	3	PCB-21/33	25:08	4.354e+03	4.237e+03	1.03	y	n	1.4942
29	3	PCB-22	25:34	2.243e+03	2.064e+03	1.09	y	n	1.4981
30	3	PCB-36	27:09	2.170e+03	2.067e+03	1.05	y	n	1.4738
31	3	PCB-39	27:31	2.294e+03	2.277e+03	1.01	y	n	1.5901
32	3	PCB-38	28:06	1.920e+03	1.850e+03	1.04	y	n	1.3114
33	3	PCB-35	28:33	1.759e+03	1.842e+03	0.95	y	n	1.2526
34	3	PCB-37	NotFnd	*	*	*	n	n	1.0888
35	2	PCB-54	NotFnd	*	*	*	n	n	1.0020
36	3	PCB-50/53	24:22	5.461e+03	7.193e+03	0.76	y	n	1.2016
37	3	PCB-45/51	25:06	5.193e+03	7.012e+03	0.74	y	y	1.1590
38	3	PCB-46	25:21	2.326e+03	2.906e+03	0.80	y	n	0.9936
39	3	PCB-52	26:46	2.912e+03	3.646e+03	0.80	y	y	1.2454
40	3	PCB-43/73	26:56	6.277e+03	8.041e+03	0.78	y	y	1.3596
41	3	PCB-49/69	27:15	6.130e+03	8.039e+03	0.76	y	y	1.3456
42	3	PCB-48	27:33	2.759e+03	3.727e+03	0.74	y	n	1.2318
43	3	PCB-44/47/65	27:48	8.731e+03	1.186e+04	0.74	y	n	1.3035
44	3	PCB-59/62/75	28:06	1.025e+04	1.366e+04	0.75	y	n	1.5137
45	3	PCB-42	28:18	2.571e+03	3.379e+03	0.76	y	n	1.1300
46	3	PCB-40/41/71	28:48	7.820e+03	1.052e+04	0.74	y	y	1.1612
47	3	PCB-64	29:02	3.469e+03	4.657e+03	0.74	y	y	1.5434
48	3	PCB-72	29:52	3.571e+03	4.819e+03	0.74	y	n	1.5935
49	3	PCB-68	30:09	3.862e+03	5.314e+03	0.73	y	n	1.7428
50	3	PCB-57	30:35	3.298e+03	4.548e+03	0.73	y	n	1.4900

51	3	PCB-58	30:50	3.423e+03	4.733e+03	0.72	y	n	1.5491
52	3	PCB-67	31:00	3.471e+03	4.954e+03	0.70	y	n	1.6002
53	3	PCB-63	31:16	3.251e+03	4.634e+03	0.70	y	n	1.4975
54	3	PCB-61/70/74/76	31:36	1.378e+04	1.892e+04	0.73	y	y	1.5530
55	3	PCB-66	31:55	3.196e+03	4.434e+03	0.72	y	n	1.4492
56	3	PCB-55	32:05	3.375e+03	4.577e+03	0.74	y	n	1.5102
57	4	PCB-56	32:36	3.077e+03	4.122e+03	0.75	y	n	1.3673
58	4	PCB-60	32:49	3.193e+03	3.965e+03	0.81	y	n	1.3594
59	4	PCB-80	33:14	3.384e+03	4.221e+03	0.80	y	n	1.4444
60	4	PCB-79	34:45	3.049e+03	3.852e+03	0.79	y	n	1.3107
61	4	PCB-78	35:19	2.848e+03	3.537e+03	0.81	y	n	1.2127
62	4	PCB-81	NotFnd	*	*	*	n	n	1.0336
63	4	PCB-77	NotFnd	*	*	*	n	n	0.9953
64	3	PCB-104	NotFnd	*	*	*	n	n	1.0300
65	3	PCB-96	28:06	3.834e+03	2.472e+03	1.55	y	n	1.2462
66	3	PCB-103	30:03	3.150e+03	2.018e+03	1.56	y	n	1.0213
67	3	PCB-94	30:16	2.970e+03	1.827e+03	1.63	y	n	0.9479
68	3	PCB-95	30:43	2.952e+03	1.870e+03	1.58	y	n	0.9531
69	3	PCB-93/100	30:56	6.309e+03	4.006e+03	1.57	y	n	1.0193
70	3	PCB-98/102	31:06	6.084e+03	3.811e+03	1.60	y	y	0.9778
71	3	PCB-88/91	31:35	5.969e+03	3.740e+03	1.60	y	y	0.9593
72	3	PCB-84	31:48	2.672e+03	1.622e+03	1.65	y	n	0.8487
73	3	PCB-89	32:17	2.676e+03	1.643e+03	1.63	y	n	0.8534
74	4	PCB-121	32:42	4.461e+03	2.797e+03	1.60	y	n	1.4344
75	4	PCB-92	33:05	2.963e+03	1.939e+03	1.53	y	n	0.9689
76	4	PCB-90/101/113	33:40	1.053e+04	6.769e+03	1.56	y	n	1.1393
77	4	PCB-83/99	34:15	6.461e+03	3.950e+03	1.64	y	y	1.0288
78	4	PCB-112	34:23	4.120e+03	2.670e+03	1.54	y	y	1.3418
79	4	PCB-86/87/97/109/119/125	34:44	2.130e+04	1.353e+04	1.57	y	y	1.1472
80	4	PCB-117	35:24	3.896e+03	2.425e+03	1.61	y	y	1.2493
81	4	PCB-85/116	35:28	7.167e+03	4.612e+03	1.55	y	y	1.1640
82	4	PCB-110/115	35:40	8.325e+03	5.261e+03	1.58	y	y	1.3425
83	4	PCB-82	35:59	2.567e+03	1.608e+03	1.60	y	n	0.8251
84	4	PCB-111	36:22	4.396e+03	2.749e+03	1.60	y	n	1.4121
85	4	PCB-120	36:50	4.140e+03	2.579e+03	1.61	y	n	1.3278
86	5	PCB-108/124	37:59	6.716e+03	4.440e+03	1.51	y	n	1.1023
87	5	PCB-107	38:13	3.527e+03	2.362e+03	1.49	y	n	1.1639
88	5	PCB-123	NotFnd	*	*	*	n	n	1.0180
89	5	PCB-106	38:27	3.448e+03	2.247e+03	1.53	y	n	1.1254
90	5	PCB-118	NotFnd	*	*	*	n	n	0.9968
91	5	PCB-122	39:01	2.918e+03	1.912e+03	1.53	y	n	0.9545
92	5	PCB-114	NotFnd	*	*	*	n	n	0.9914
93	5	PCB-105	NotFnd	*	*	*	n	n	1.0109
94	5	PCB-127	41:20	2.966e+03	2.016e+03	1.47	y	n	0.9845
95	5	PCB-126	NotFnd	*	*	*	n	n	0.9601
96	4	PCB-155	NotFnd	*	*	*	n	n	0.9884
97	4	PCB-152	33:38	3.180e+03	2.771e+03	1.15	y	n	1.5781
98	4	PCB-150	33:48	3.311e+03	2.836e+03	1.17	y	n	1.6300
99	4	PCB-136	34:10	3.019e+03	2.631e+03	1.15	y	n	1.4984
100	4	PCB-145	34:27	3.245e+03	2.856e+03	1.14	y	n	1.6178
101	4	PCB-148	35:59	2.410e+03	1.915e+03	1.26	y	n	1.1471
102	4	PCB-135/151	36:36	4.666e+03	4.161e+03	1.12	y	n	1.1704
103	4	PCB-154	36:50	2.590e+03	2.354e+03	1.10	y	n	1.3110
104	4	PCB-144	37:09	2.343e+03	2.032e+03	1.15	y	n	1.1604
105	5	PCB-147/149	37:31	5.470e+03	4.469e+03	1.22	y	n	1.3178
106	5	PCB-134	37:43	2.381e+03	1.652e+03	1.44	n	n	1.0696
107	5	PCB-143	37:48	2.359e+03	2.113e+03	1.12	y	n	1.1859

108	5	PCB-139/140	38:06	5.476e+03	4.340e+03	1.26	y	n	1.3015
109	5	PCB-131	38:18	2.396e+03	1.919e+03	1.25	y	n	1.1444
110	5	PCB-142	38:28	2.270e+03	1.831e+03	1.24	y	n	1.0875
111	5	PCB-132	38:46	2.385e+03	1.949e+03	1.22	y	n	1.1493
112	5	PCB-133	39:17	2.318e+03	1.885e+03	1.23	y	n	1.1146
113	5	PCB-165	39:40	3.166e+03	2.492e+03	1.27	y	n	1.5005
114	5	PCB-146	39:55	2.660e+03	2.111e+03	1.26	y	n	1.2651
115	5	PCB-161	40:04	3.128e+03	2.535e+03	1.23	y	n	1.5016
116	5	PCB-153/168	40:34	5.985e+03	4.946e+03	1.21	y	n	1.4493
117	5	PCB-141	40:44	2.531e+03	1.974e+03	1.28	y	n	1.1946
118	5	PCB-130	41:08	2.076e+03	1.628e+03	1.28	y	n	0.9824
119	5	PCB-137	41:22	2.356e+03	1.867e+03	1.26	y	n	1.1197
120	5	PCB-164	41:29	3.264e+03	2.660e+03	1.23	y	n	1.5711
121	5	PCB-129/138/163	41:48	7.586e+03	6.095e+03	1.24	y	n	1.2093
122	5	PCB-160	41:57	3.151e+03	2.494e+03	1.26	y	n	1.4969
123	5	PCB-158	42:10	3.330e+03	2.599e+03	1.28	y	n	1.5724
124	5	PCB-128/166	43:02	5.184e+03	4.153e+03	1.25	y	n	1.2379
125	6	PCB-159	44:02	2.050e+03	1.661e+03	1.23	y	n	0.9842
126	6	PCB-162	44:19	2.229e+03	1.872e+03	1.19	y	n	1.0874
127	6	PCB-167	NotFnd	*	*	*	n	n	1.0081
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.0060
129	6	PCB-169	NotFnd	*	*	*	n	n	0.9915
130	5	PCB-188	NotFnd	*	*	*	n	n	0.9902
131	5	PCB-179	39:31	2.653e+03	2.726e+03	0.97	y	n	1.3204
132	5	PCB-184	40:03	2.985e+03	3.043e+03	0.98	y	n	1.4796
133	5	PCB-176	40:23	2.563e+03	2.625e+03	0.98	y	n	1.2737
134	5	PCB-186	40:52	2.756e+03	2.755e+03	1.00	y	n	1.3529
135	5	PCB-178	42:14	1.798e+03	1.867e+03	0.96	y	n	0.8997
136	5	PCB-175	42:52	1.894e+03	1.960e+03	0.97	y	n	0.9460
137	5	PCB-187	43:09	2.086e+03	2.145e+03	0.97	y	n	1.0387
138	5	PCB-182	43:21	1.983e+03	1.967e+03	1.01	y	n	0.9697
139	6	PCB-183	43:46	1.631e+03	1.682e+03	0.97	y	n	0.8132
140	6	PCB-185	43:51	1.486e+03	1.484e+03	1.00	y	n	0.7290
141	6	PCB-174	44:00	1.469e+03	1.436e+03	1.02	y	n	0.7131
142	6	PCB-177	44:26	1.363e+03	1.396e+03	0.98	y	n	0.6773
143	6	PCB-181	44:51	1.524e+03	1.541e+03	0.99	y	n	0.7526
144	6	PCB-171/173	45:03	2.668e+03	2.618e+03	1.02	y	n	0.6488
145	6	PCB-172	46:41	1.265e+03	1.276e+03	0.99	y	n	0.6237
146	6	PCB-192	46:58	1.824e+03	1.769e+03	1.03	y	n	0.8819
147	6	PCB-180/193	47:18	3.197e+03	3.208e+03	1.00	y	n	0.7862
148	6	PCB-191	47:42	1.704e+03	1.714e+03	0.99	y	n	0.8391
149	6	PCB-170	48:36	1.249e+03	1.218e+03	1.03	y	n	0.6057
150	6	PCB-190	49:08	1.653e+03	1.682e+03	0.98	y	n	0.8187
151	6	PCB-189	NotFnd	*	*	*	n	n	0.8632
152	6	PCB-202	NotFnd	*	*	*	n	n	0.8634
153	6	PCB-201	45:28	2.464e+03	2.834e+03	0.87	y	n	1.2156
154	6	PCB-204	46:09	2.405e+03	2.777e+03	0.87	y	n	1.1889
155	6	PCB-197	46:23	2.636e+03	2.997e+03	0.88	y	n	1.2923
156	6	PCB-200	46:29	2.387e+03	2.698e+03	0.88	y	n	1.1668
157	6	PCB-198/199	49:16	3.468e+03	4.017e+03	0.86	y	n	0.8587
158	6	PCB-196	49:57	1.708e+03	1.942e+03	0.88	y	n	0.8377
159	6	PCB-203	50:09	1.970e+03	2.245e+03	0.88	y	n	0.9670
160	6	PCB-195	51:28	1.527e+03	1.827e+03	0.84	y	n	0.7695
161	6	PCB-194	53:49	1.860e+03	2.256e+03	0.82	y	n	0.9442
162	6	PCB-205	NotFnd	*	*	*	n	n	0.8885
163	6	PCB-208	NotFnd	*	*	*	n	n	0.8804
164	6	PCB-207	52:09	1.653e+03	2.062e+03	0.80	y	n	1.0576

165	7	PCB-206	NotFnd	*	*	*	n	n	0.9310
166	7	PCB-209	NotFnd	*	*	*	n	n	0.8938
167	1	PCB-1L	13:18	1.442e+04	4.850e+03	2.97	y	n	1.2197
168	1	PCB-3L	15:34	1.425e+04	4.572e+03	3.12	y	n	1.1732
169	1	PCB-4L	15:49	6.223e+03	4.088e+03	1.52	y	n	0.8031
170	2	PCB-15L	21:51	8.600e+03	5.612e+03	1.53	y	n	0.9620
171	2	PCB-19L	19:00	4.617e+03	4.712e+03	0.98	y	n	0.6361
172	3	PCB-37L	28:57	6.756e+03	6.912e+03	0.98	y	n	1.1440
173	2	PCB-54L	22:08	4.209e+03	5.183e+03	0.81	y	n	1.1399
174	4	PCB-81L	35:44	4.700e+03	5.993e+03	0.78	y	n	0.9468
175	4	PCB-77L	36:18	5.080e+03	6.428e+03	0.79	y	n	0.9489
176	3	PCB-104L	27:43	7.004e+03	4.607e+03	1.52	y	n	1.3966
177	5	PCB-123L	38:18	5.860e+03	3.828e+03	1.53	y	n	1.0295
178	5	PCB-118L	38:38	5.900e+03	3.752e+03	1.57	y	n	1.0766
179	5	PCB-114L	39:10	5.906e+03	3.622e+03	1.63	y	n	1.0747
180	5	PCB-105L	39:49	5.620e+03	3.565e+03	1.58	y	n	1.0133
181	5	PCB-126L	42:55	5.175e+03	3.217e+03	1.61	y	n	0.8978
182	4	PCB-155L	33:25	6.710e+03	5.363e+03	1.25	y	n	1.6371
183	6	PCB-167L	44:47	3.791e+03	2.963e+03	1.28	y	n	0.8820
184	6	PCB-156/157L	45:56	7.131e+03	5.737e+03	1.24	y	n	0.8178
185	6	PCB-169L	49:10	3.349e+03	2.666e+03	1.26	y	n	0.7164
186	5	PCB-188L	39:09	5.157e+03	4.968e+03	1.04	y	n	2.3576
187	6	PCB-189L	51:42	3.151e+03	3.019e+03	1.04	y	n	1.3072
188	6	PCB-202L	44:31	3.209e+03	3.597e+03	0.89	y	n	1.8049
189	6	PCB-205L	54:15	2.295e+03	2.522e+03	0.91	y	n	1.3631
190	6	PCB-208L	51:11	2.113e+03	2.787e+03	0.76	y	n	1.3370
191	7	PCB-206L	56:00	1.996e+03	2.471e+03	0.81	y	n	0.9978
192	7	PCB-209L	57:35	2.520e+03	2.074e+03	1.22	y	n	1.5625
193	3	PCB-28L	NotFnd	*	*	*	n	n	1.3869
194	4	PCB-111L	NotFnd	*	*	*	n	n	1.2384
195	5	PCB-178L	NotFnd	*	*	*	n	n	0.9527
196	2	PCB-9L	NotFnd	*	*	*	n	n	-
197	3	PCB-52L	NotFnd	*	*	*	n	n	-
198	4	PCB-101L	NotFnd	*	*	*	n	n	-
199	5	PCB-138L	NotFnd	*	*	*	n	n	-
200	6	PCB-194L	NotFnd	*	*	*	n	n	-

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
DCCS-209

Run #8 Filename U142082#1 Samp: 1 Inj: 1 Acquired: 11-NOV-11 04:31:26

Processed: 17-NOV-11 10:49:02 LAB. ID: B4-25-1

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	2.47e+03	*	*	2.62e+03	*
2	PCB-2	8.50e+05	2.47e+03	3.4e+02	2.76e+05	2.62e+03	1.1e+02
3	PCB-3	*	2.47e+03	*	*	2.62e+03	*
4	PCB-4	*	3.58e+03	*	*	1.33e+04	*
5	PCB-10	7.15e+05	3.58e+03	2.0e+02	4.59e+05	1.33e+04	3.5e+01
6	PCB-9	5.54e+05	5.46e+03	1.0e+02	3.72e+05	2.57e+04	1.4e+01
7	PCB-7	6.16e+05	5.46e+03	1.1e+02	4.02e+05	2.57e+04	1.6e+01
8	PCB-6	5.43e+05	5.46e+03	9.9e+01	3.69e+05	2.57e+04	1.4e+01
9	PCB-5	5.27e+05	5.46e+03	9.6e+01	3.41e+05	2.57e+04	1.3e+01
10	PCB-8	5.52e+05	5.46e+03	1.0e+02	3.86e+05	2.57e+04	1.5e+01
11	PCB-14	5.20e+05	5.46e+03	9.5e+01	3.41e+05	2.57e+04	1.3e+01
12	PCB-11	4.67e+05	5.46e+03	8.6e+01	3.22e+05	2.57e+04	1.3e+01
13	PCB-12/13	7.11e+05	5.46e+03	1.3e+02	4.80e+05	2.57e+04	1.9e+01
14	PCB-15	*	5.46e+03	*	*	2.57e+04	*
15	PCB-19	*	2.32e+03	*	*	2.27e+03	*
16	PCB-18/30	6.77e+05	2.32e+03	2.9e+02	6.78e+05	2.27e+03	3.0e+02
17	PCB-17	3.05e+05	2.32e+03	1.3e+02	3.07e+05	2.27e+03	1.3e+02
18	PCB-27	4.17e+05	2.32e+03	1.8e+02	4.11e+05	2.27e+03	1.8e+02
19	PCB-24	4.37e+05	2.32e+03	1.9e+02	4.39e+05	2.27e+03	1.9e+02
20	PCB-16	2.75e+05	2.32e+03	1.2e+02	2.89e+05	2.27e+03	1.3e+02
21	PCB-32	4.59e+05	2.32e+03	2.0e+02	4.65e+05	2.27e+03	2.0e+02
22	PCB-34	4.03e+05	1.60e+04	2.5e+01	3.89e+05	1.49e+04	2.6e+01
23	PCB-23	4.19e+05	1.60e+04	2.6e+01	3.92e+05	1.49e+04	2.6e+01
24	PCB-26/29	7.37e+05	1.60e+04	4.6e+01	7.12e+05	1.49e+04	4.8e+01
25	PCB-25	4.40e+05	1.60e+04	2.7e+01	4.01e+05	1.49e+04	2.7e+01
26	PCB-31	4.43e+05	1.60e+04	2.8e+01	4.22e+05	1.49e+04	2.8e+01
27	PCB-20/28	7.67e+05	1.60e+04	4.8e+01	7.55e+05	1.49e+04	5.1e+01
28	PCB-21/33	4.89e+05	1.60e+04	3.0e+01	4.69e+05	1.49e+04	3.2e+01
29	PCB-22	4.29e+05	1.60e+04	2.7e+01	3.95e+05	1.49e+04	2.7e+01
30	PCB-36	4.09e+05	1.60e+04	2.5e+01	3.86e+05	1.49e+04	2.6e+01
31	PCB-39	4.19e+05	1.60e+04	2.6e+01	3.98e+05	1.49e+04	2.7e+01
32	PCB-38	3.53e+05	1.60e+04	2.2e+01	3.46e+05	1.49e+04	2.3e+01
33	PCB-35	3.26e+05	1.60e+04	2.0e+01	3.34e+05	1.49e+04	2.3e+01
34	PCB-37	*	1.60e+04	*	*	1.49e+04	*
35	PCB-54	*	1.77e+03	*	*	2.02e+03	*
36	PCB-50/53	8.91e+05	1.80e+03	5.0e+02	1.18e+06	2.27e+03	5.2e+02
37	PCB-45/51	5.77e+05	1.80e+03	3.2e+02	7.52e+05	2.27e+03	3.3e+02
38	PCB-46	4.35e+05	1.80e+03	2.4e+02	5.32e+05	2.27e+03	2.3e+02
39	PCB-52	5.39e+05	1.80e+03	3.0e+02	6.77e+05	2.27e+03	3.0e+02
40	PCB-43/73	7.12e+05	1.80e+03	4.0e+02	8.92e+05	2.27e+03	3.9e+02
41	PCB-49/69	8.26e+05	1.80e+03	4.6e+02	1.09e+06	2.27e+03	4.8e+02
42	PCB-48	5.13e+05	1.80e+03	2.8e+02	6.84e+05	2.27e+03	3.0e+02
43	PCB-44/47/65	1.33e+06	1.80e+03	7.4e+02	1.80e+06	2.27e+03	7.9e+02
44	PCB-59/62/75	1.39e+06	1.80e+03	7.7e+02	1.85e+06	2.27e+03	8.1e+02
45	PCB-42	4.95e+05	1.80e+03	2.8e+02	6.31e+05	2.27e+03	2.8e+02
46	PCB-40/41/71	9.85e+05	1.80e+03	5.5e+02	1.34e+06	2.27e+03	5.9e+02
47	PCB-64	6.48e+05	1.80e+03	3.6e+02	8.62e+05	2.27e+03	3.8e+02

48	PCB-72	6.61e+05	1.80e+03	3.7e+02	8.89e+05	2.27e+03	3.9e+02
49	PCB-68	6.91e+05	1.80e+03	3.8e+02	9.20e+05	2.27e+03	4.1e+02
50	PCB-57	6.20e+05	1.80e+03	3.4e+02	8.39e+05	2.27e+03	3.7e+02
51	PCB-58	6.32e+05	1.80e+03	3.5e+02	8.46e+05	2.27e+03	3.7e+02
52	PCB-67	6.09e+05	1.80e+03	3.4e+02	8.42e+05	2.27e+03	3.7e+02
53	PCB-63	6.05e+05	1.80e+03	3.4e+02	8.16e+05	2.27e+03	3.6e+02
54	PCB-61/70/74/76	1.35e+06	1.80e+03	7.5e+02	1.82e+06	2.27e+03	8.0e+02
55	PCB-66	5.74e+05	1.80e+03	3.2e+02	7.81e+05	2.27e+03	3.4e+02
56	PCB-55	6.12e+05	1.80e+03	3.4e+02	8.43e+05	2.27e+03	3.7e+02
57	PCB-56	5.58e+05	5.99e+03	9.3e+01	7.63e+05	4.96e+03	1.5e+02
58	PCB-60	5.81e+05	5.99e+03	9.7e+01	7.17e+05	4.96e+03	1.4e+02
59	PCB-80	5.95e+05	5.99e+03	9.9e+01	7.44e+05	4.96e+03	1.5e+02
60	PCB-79	5.26e+05	5.99e+03	8.8e+01	6.74e+05	4.96e+03	1.4e+02
61	PCB-78	4.92e+05	5.99e+03	8.2e+01	6.26e+05	4.96e+03	1.3e+02
62	PCB-81	*	5.99e+03	*	*	4.96e+03	*
63	PCB-77	*	5.99e+03	*	*	4.96e+03	*
64	PCB-104	*	1.08e+03	*	*	9.52e+02	*
65	PCB-96	7.15e+05	1.08e+03	6.6e+02	4.67e+05	9.52e+02	4.9e+02
66	PCB-103	5.93e+05	1.08e+03	5.5e+02	3.84e+05	9.52e+02	4.0e+02
67	PCB-94	5.55e+05	1.08e+03	5.1e+02	3.44e+05	9.52e+02	3.6e+02
68	PCB-95	5.55e+05	1.08e+03	5.1e+02	3.48e+05	9.52e+02	3.7e+02
69	PCB-93/100	1.12e+06	1.08e+03	1.0e+03	7.20e+05	9.52e+02	7.6e+02
70	PCB-98/102	6.40e+05	1.08e+03	5.9e+02	4.09e+05	9.52e+02	4.3e+02
71	PCB-88/91	5.97e+05	1.08e+03	5.5e+02	3.75e+05	9.52e+02	3.9e+02
72	PCB-84	4.96e+05	1.08e+03	4.6e+02	2.96e+05	9.52e+02	3.1e+02
73	PCB-89	4.98e+05	1.08e+03	4.6e+02	3.03e+05	9.52e+02	3.2e+02
74	PCB-121	8.14e+05	2.97e+03	2.7e+02	5.16e+05	1.98e+03	2.6e+02
75	PCB-92	5.27e+05	2.97e+03	1.8e+02	3.56e+05	1.98e+03	1.8e+02
76	PCB-90/101/113	1.39e+06	2.97e+03	4.7e+02	8.87e+05	1.98e+03	4.5e+02
77	PCB-83/99	6.97e+05	2.97e+03	2.3e+02	4.35e+05	1.98e+03	2.2e+02
78	PCB-112	7.48e+05	2.97e+03	2.5e+02	4.71e+05	1.98e+03	2.4e+02
79	CB-86/87/97/109/119/125	2.16e+06	2.97e+03	7.3e+02	1.38e+06	1.98e+03	7.0e+02
80	PCB-117	8.05e+05	2.97e+03	2.7e+02	5.00e+05	1.98e+03	2.5e+02
81	PCB-85/116	1.22e+06	2.97e+03	4.1e+02	7.98e+05	1.98e+03	4.0e+02
82	PCB-110/115	8.32e+05	2.97e+03	2.8e+02	5.30e+05	1.98e+03	2.7e+02
83	PCB-82	4.64e+05	2.97e+03	1.6e+02	2.75e+05	1.98e+03	1.4e+02
84	PCB-111	8.01e+05	2.97e+03	2.7e+02	4.92e+05	1.98e+03	2.5e+02
85	PCB-120	7.43e+05	2.97e+03	2.5e+02	4.56e+05	1.98e+03	2.3e+02
86	PCB-108/124	1.20e+06	1.81e+04	6.7e+01	7.77e+05	1.44e+04	5.4e+01
87	PCB-107	6.34e+05	1.81e+04	3.5e+01	4.17e+05	1.44e+04	2.9e+01
88	PCB-123	*	1.81e+04	*	*	1.44e+04	*
89	PCB-106	5.91e+05	1.81e+04	3.3e+01	3.90e+05	1.44e+04	2.7e+01
90	PCB-118	*	1.81e+04	*	*	1.44e+04	*
91	PCB-122	5.23e+05	1.81e+04	2.9e+01	3.45e+05	1.44e+04	2.4e+01
92	PCB-114	*	1.81e+04	*	*	1.44e+04	*
93	PCB-105	*	1.81e+04	*	*	1.44e+04	*
94	PCB-127	5.28e+05	1.81e+04	2.9e+01	3.49e+05	1.44e+04	2.4e+01
95	PCB-126	*	1.81e+04	*	*	1.44e+04	*
96	PCB-155	*	2.43e+03	*	*	1.72e+03	*
97	PCB-152	5.74e+05	2.43e+03	2.4e+02	5.03e+05	1.72e+03	2.9e+02
98	PCB-150	5.90e+05	2.43e+03	2.4e+02	5.08e+05	1.72e+03	3.0e+02
99	PCB-136	5.51e+05	2.43e+03	2.3e+02	4.75e+05	1.72e+03	2.8e+02
100	PCB-145	5.88e+05	2.43e+03	2.4e+02	5.03e+05	1.72e+03	2.9e+02
101	PCB-148	4.38e+05	2.43e+03	1.8e+02	3.40e+05	1.72e+03	2.0e+02
102	PCB-135/151	5.12e+05	2.43e+03	2.1e+02	4.65e+05	1.72e+03	2.7e+02
103	PCB-154	4.66e+05	2.43e+03	1.9e+02	4.20e+05	1.72e+03	2.4e+02
104	PCB-144	4.07e+05	2.43e+03	1.7e+02	3.68e+05	1.72e+03	2.1e+02

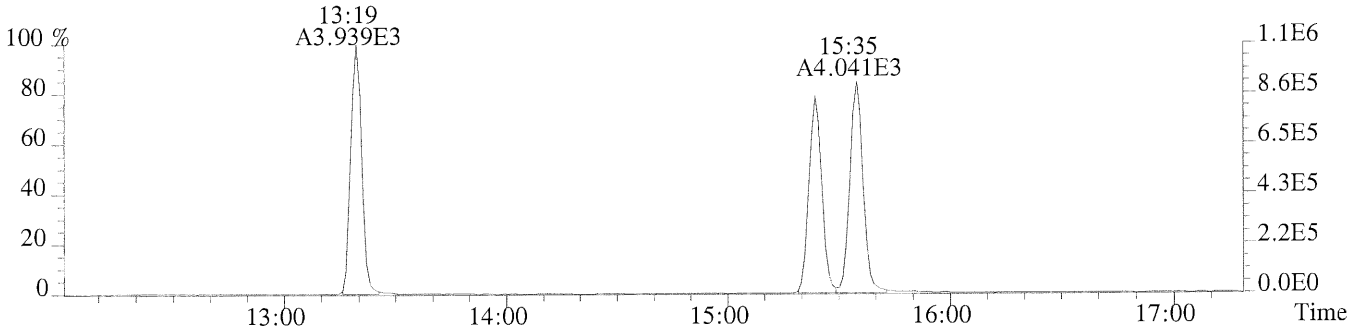
PCB-147/149	9.85e+05	1.57e+03	6.3e+02	8.01e+05	2.49e+03	3.2e+02
PCB-134	3.98e+05	1.57e+03	2.5e+02	3.20e+05	2.49e+03	1.3e+02
PCB-143	4.50e+05	1.57e+03	2.9e+02	3.64e+05	2.49e+03	1.5e+02
PCB-139/140	9.41e+05	1.57e+03	6.0e+02	7.61e+05	2.49e+03	3.1e+02
PCB-131	4.24e+05	1.57e+03	2.7e+02	3.42e+05	2.49e+03	1.4e+02
PCB-142	4.06e+05	1.57e+03	2.6e+02	3.24e+05	2.49e+03	1.3e+02
PCB-132	4.25e+05	1.57e+03	2.7e+02	3.59e+05	2.49e+03	1.4e+02
PCB-133	4.10e+05	1.57e+03	2.6e+02	3.30e+05	2.49e+03	1.3e+02
PCB-165	5.60e+05	1.57e+03	3.6e+02	4.33e+05	2.49e+03	1.7e+02
PCB-146	4.77e+05	1.57e+03	3.0e+02	3.90e+05	2.49e+03	1.6e+02
PCB-161	5.45e+05	1.57e+03	3.5e+02	4.37e+05	2.49e+03	1.8e+02
PCB-153/168	8.60e+05	1.57e+03	5.5e+02	6.89e+05	2.49e+03	2.8e+02
PCB-141	4.40e+05	1.57e+03	2.8e+02	3.30e+05	2.49e+03	1.3e+02
PCB-130	3.72e+05	1.57e+03	2.4e+02	2.92e+05	2.49e+03	1.2e+02
PCB-137	4.60e+05	1.57e+03	2.9e+02	3.43e+05	2.49e+03	1.4e+02
PCB-164	5.34e+05	1.57e+03	3.4e+02	4.49e+05	2.49e+03	1.8e+02
PCB-129/138/163	1.07e+06	1.57e+03	6.8e+02	8.88e+05	2.49e+03	3.6e+02
PCB-160	5.35e+05	1.57e+03	3.4e+02	4.38e+05	2.49e+03	1.8e+02
PCB-158	5.82e+05	1.57e+03	3.7e+02	4.37e+05	2.49e+03	1.8e+02
PCB-128/166	8.05e+05	1.57e+03	5.1e+02	6.51e+05	2.49e+03	2.6e+02
PCB-159	4.37e+05	1.27e+04	3.4e+01	3.46e+05	2.61e+03	1.3e+02
PCB-162	4.48e+05	1.27e+04	3.5e+01	3.78e+05	2.61e+03	1.4e+02
PCB-167	*	1.27e+04	*	*	2.61e+03	*
PCB-156/157	*	1.27e+04	*	*	2.61e+03	*
PCB-169	*	1.27e+04	*	*	2.61e+03	*
PCB-188	*	1.95e+03	*	*	9.92e+02	*
PCB-179	4.62e+05	1.95e+03	2.4e+02	4.81e+05	9.92e+02	4.9e+02
PCB-184	5.06e+05	1.95e+03	2.6e+02	5.38e+05	9.92e+02	5.4e+02
PCB-176	4.36e+05	1.95e+03	2.2e+02	4.53e+05	9.92e+02	4.6e+02
PCB-186	4.79e+05	1.95e+03	2.5e+02	4.67e+05	9.92e+02	4.7e+02
PCB-178	3.07e+05	1.95e+03	1.6e+02	3.15e+05	9.92e+02	3.2e+02
PCB-175	3.25e+05	1.95e+03	1.7e+02	3.43e+05	9.92e+02	3.5e+02
PCB-187	3.80e+05	1.95e+03	2.0e+02	3.81e+05	9.92e+02	3.8e+02
PCB-182	3.42e+05	1.95e+03	1.8e+02	3.36e+05	9.92e+02	3.4e+02
PCB-183	3.48e+05	1.78e+03	2.0e+02	3.62e+05	2.07e+03	1.8e+02
PCB-185	3.40e+05	1.78e+03	1.9e+02	3.29e+05	2.07e+03	1.6e+02
PCB-174	3.19e+05	1.78e+03	1.8e+02	3.16e+05	2.07e+03	1.5e+02
PCB-177	2.89e+05	1.78e+03	1.6e+02	2.93e+05	2.07e+03	1.4e+02
PCB-181	3.21e+05	1.78e+03	1.8e+02	3.18e+05	2.07e+03	1.5e+02
PCB-171/173	5.03e+05	1.78e+03	2.8e+02	4.95e+05	2.07e+03	2.4e+02
PCB-172	2.55e+05	1.78e+03	1.4e+02	2.69e+05	2.07e+03	1.3e+02
PCB-192	3.86e+05	1.78e+03	2.2e+02	3.62e+05	2.07e+03	1.7e+02
PCB-180/193	4.80e+05	1.78e+03	2.7e+02	4.96e+05	2.07e+03	2.4e+02
PCB-191	3.56e+05	1.78e+03	2.0e+02	3.59e+05	2.07e+03	1.7e+02
PCB-170	2.51e+05	1.78e+03	1.4e+02	2.46e+05	2.07e+03	1.2e+02
PCB-190	3.37e+05	1.78e+03	1.9e+02	3.49e+05	2.07e+03	1.7e+02
PCB-189	*	1.78e+03	*	*	2.07e+03	*
PCB-202	*	1.27e+03	*	*	1.68e+03	*
PCB-201	4.95e+05	1.27e+03	3.9e+02	5.86e+05	1.68e+03	3.5e+02
PCB-204	5.07e+05	1.27e+03	4.0e+02	5.96e+05	1.68e+03	3.5e+02
PCB-197	5.49e+05	1.27e+03	4.3e+02	6.25e+05	1.68e+03	3.7e+02
PCB-200	5.03e+05	1.27e+03	4.0e+02	5.85e+05	1.68e+03	3.5e+02
PCB-198/199	5.39e+05	1.27e+03	4.3e+02	6.39e+05	1.68e+03	3.8e+02
PCB-196	3.46e+05	1.27e+03	2.7e+02	4.09e+05	1.68e+03	2.4e+02
PCB-203	4.02e+05	1.27e+03	3.2e+02	4.59e+05	1.68e+03	2.7e+02
PCB-195	3.19e+05	1.27e+03	2.5e+02	3.78e+05	1.68e+03	2.2e+02
PCB-194	3.25e+05	1.27e+03	2.6e+02	3.78e+05	1.68e+03	2.2e+02
PCB-205	*	1.27e+03	*	*	1.68e+03	*

Run #8 Filename U142082#1 Samp: 1 Acquired: 11-NOV-11 04:31:26

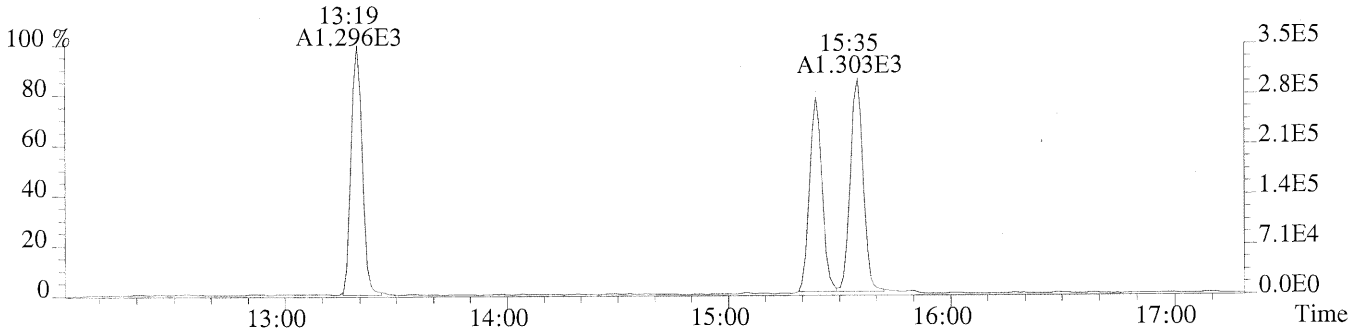
163	PCB-208	*	1.28e+03	*	*	1.00e+03	*
164	PCB-207	3.41e+05	1.28e+03	2.7e+02	4.15e+05	1.00e+03	4.1e+02
165	PCB-206	*	1.02e+03	*	*	9.28e+02	*
166	PCB-209	*	1.05e+03	*	*	7.76e+02	*
167	PCB-1L	3.93e+06	3.27e+03	1.2e+03	1.32e+06	6.77e+03	2.0e+02
168	PCB-3L	3.26e+06	3.27e+03	1.0e+03	1.03e+06	6.77e+03	1.5e+02
169	PCB-4L	1.46e+06	2.57e+03	5.7e+02	9.66e+05	2.40e+03	4.0e+02
170	PCB-15L	1.81e+06	3.29e+03	5.5e+02	1.16e+06	3.67e+03	3.2e+02
171	PCB-19L	1.10e+06	1.96e+04	5.6e+01	1.08e+06	9.52e+03	1.1e+02
172	PCB-37L	1.18e+06	1.74e+04	6.7e+01	1.18e+06	1.05e+04	1.1e+02
173	PCB-54L	9.20e+05	5.94e+03	1.5e+02	1.15e+06	2.16e+03	5.3e+02
174	PCB-81L	8.22e+05	3.22e+03	2.6e+02	1.06e+06	1.36e+03	7.8e+02
175	PCB-77L	8.62e+05	3.22e+03	2.7e+02	1.09e+06	1.36e+03	8.0e+02
176	PCB-104L	1.27e+06	1.89e+03	6.7e+02	8.54e+05	1.07e+03	8.0e+02
177	PCB-123L	1.05e+06	3.52e+03	3.0e+02	6.88e+05	2.80e+03	2.5e+02
178	PCB-118L	1.02e+06	3.52e+03	2.9e+02	6.61e+05	2.80e+03	2.4e+02
179	PCB-114L	1.05e+06	3.52e+03	3.0e+02	6.50e+05	2.80e+03	2.3e+02
180	PCB-105L	9.47e+05	3.52e+03	2.7e+02	6.13e+05	2.80e+03	2.2e+02
181	PCB-126L	8.36e+05	3.52e+03	2.4e+02	5.36e+05	2.80e+03	1.9e+02
182	PCB-155L	1.23e+06	1.84e+03	6.6e+02	9.83e+05	2.38e+03	4.1e+02
183	PCB-167L	8.02e+05	3.12e+03	2.6e+02	6.38e+05	2.00e+03	3.2e+02
184	PCB-156/157L	1.15e+06	3.12e+03	3.7e+02	9.32e+05	2.00e+03	4.7e+02
185	PCB-169L	6.67e+05	3.12e+03	2.1e+02	5.25e+05	2.00e+03	2.6e+02
186	PCB-188L	9.12e+05	1.76e+03	5.2e+02	8.83e+05	1.34e+03	6.6e+02
187	PCB-189L	6.59e+05	2.44e+03	2.7e+02	6.18e+05	1.71e+03	3.6e+02
188	PCB-202L	6.65e+05	1.30e+03	5.1e+02	7.45e+05	1.58e+03	4.7e+02
189	PCB-205L	4.60e+05	1.30e+03	3.5e+02	5.07e+05	1.58e+03	3.2e+02
190	PCB-208L	4.24e+05	1.44e+03	2.9e+02	5.71e+05	1.19e+03	4.8e+02
191	PCB-206L	3.41e+05	7.72e+02	4.4e+02	4.38e+05	9.44e+02	4.6e+02
192	PCB-209L	4.44e+05	7.52e+02	5.9e+02	3.70e+05	9.32e+02	4.0e+02
193	PCB-28L	*	1.74e+04	*	*	1.05e+04	*
194	PCB-111L	*	2.51e+03	*	*	1.87e+03	*
195	PCB-178L	*	1.76e+03	*	*	1.34e+03	*
196	PCB-9L	*	3.29e+03	*	*	3.67e+03	*
197	PCB-52L	*	4.74e+03	*	*	1.48e+03	*
198	PCB-101L	*	2.51e+03	*	*	1.87e+03	*
199	PCB-138L	*	1.66e+03	*	*	2.20e+03	*
200	PCB-194L	*	1.30e+03	*	*	1.58e+03	*

File:U142082 #1-341 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

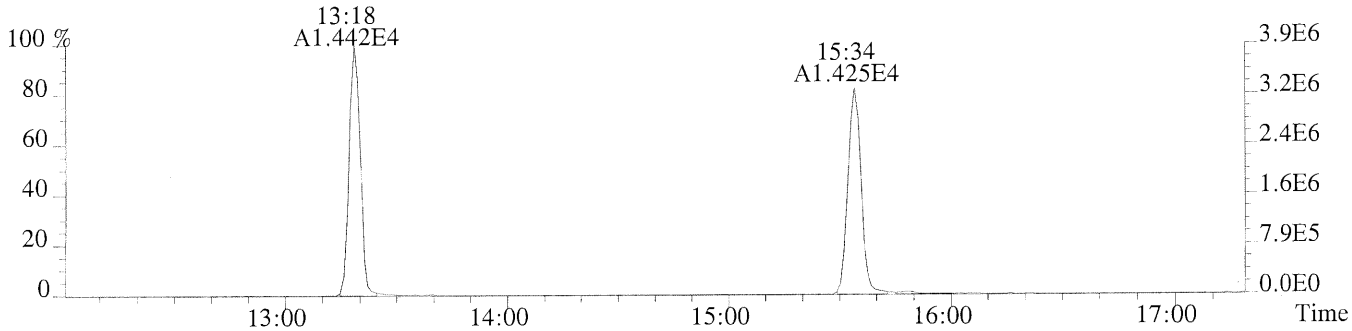
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2468.0,1.00%,F,T)



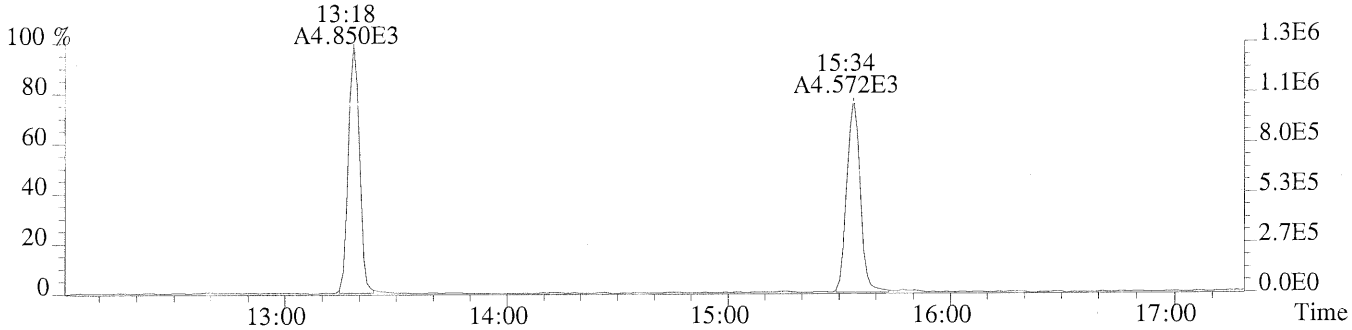
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2620.0,1.00%,F,T)



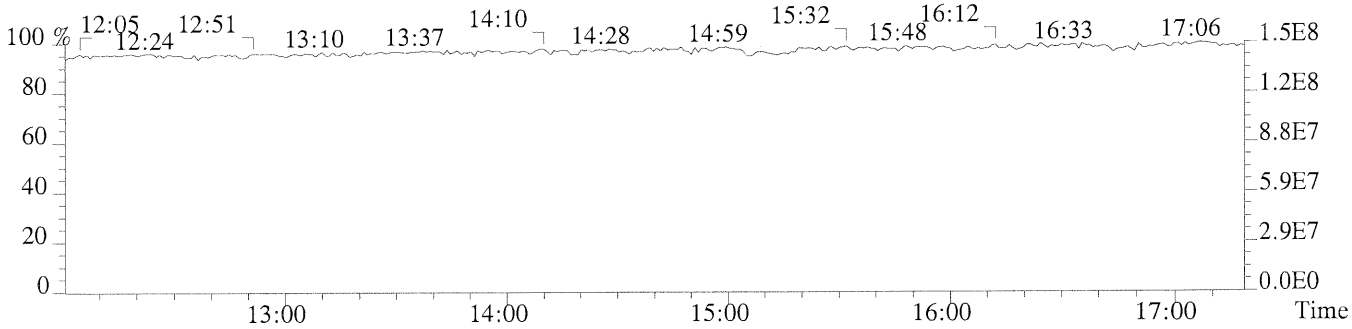
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3268.0,1.00%,F,T)



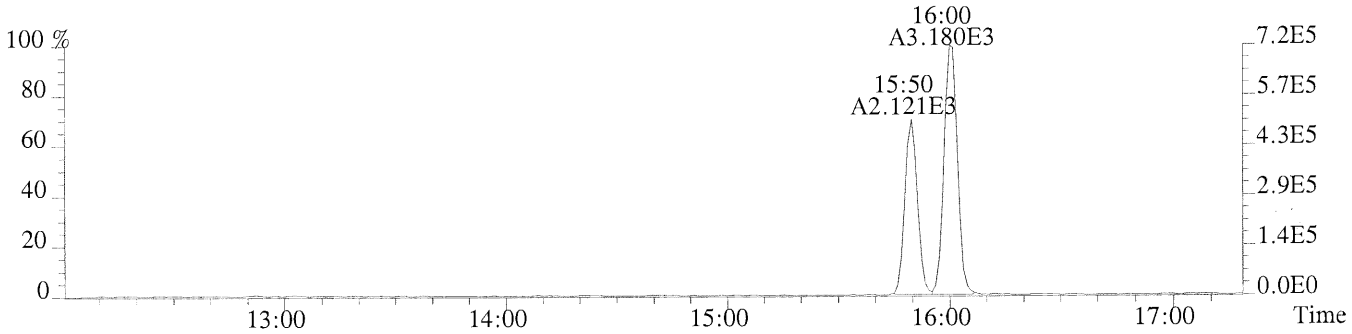
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6768.0,1.00%,F,T)



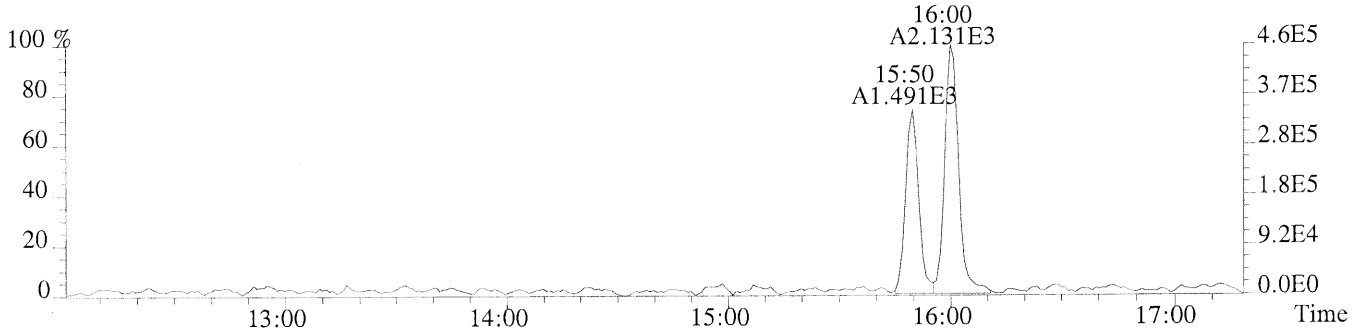
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



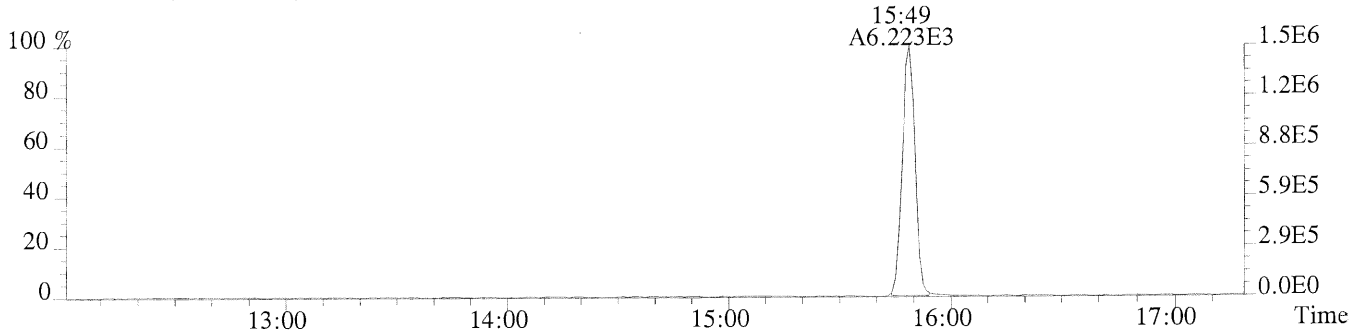
File:U142082 #1-341 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3576.0,1.00%,F,T)



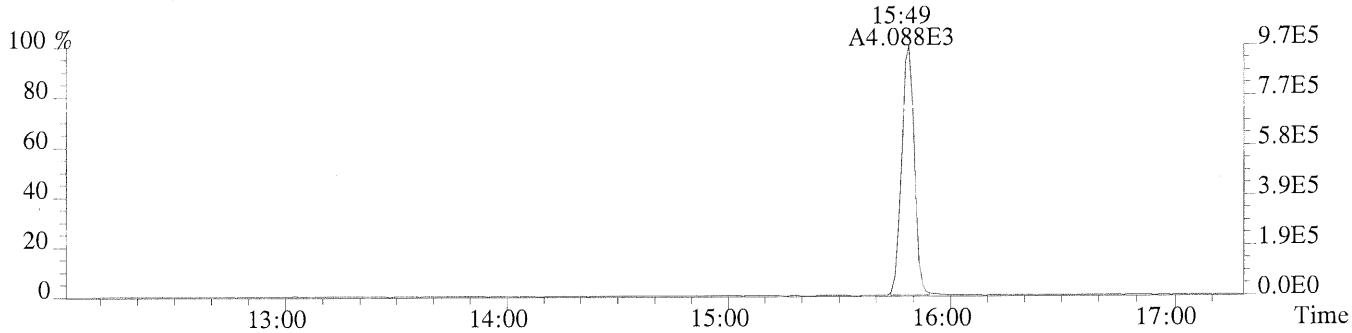
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,13280.0,1.00%,F,T)



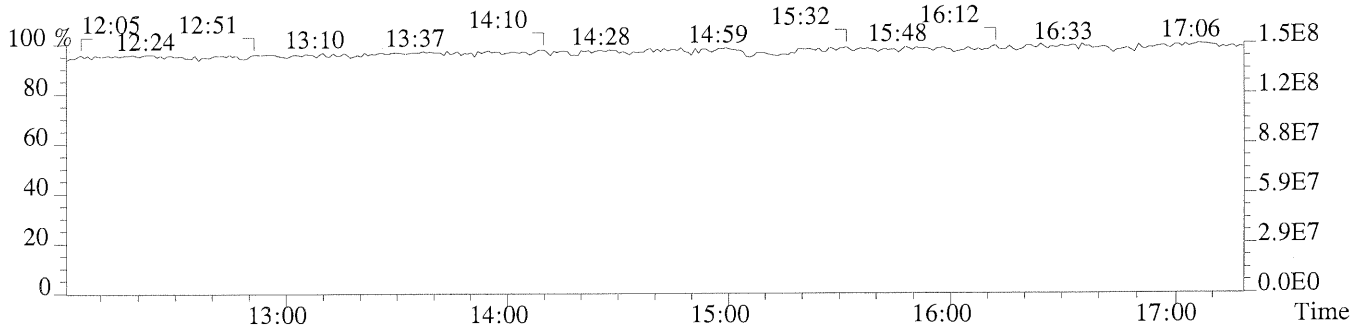
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2572.0,1.00%,F,T)



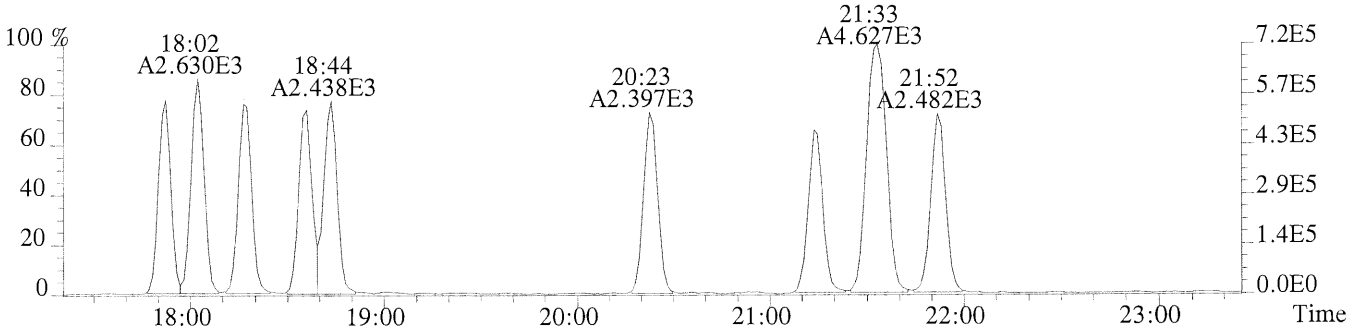
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2396.0,1.00%,F,T)



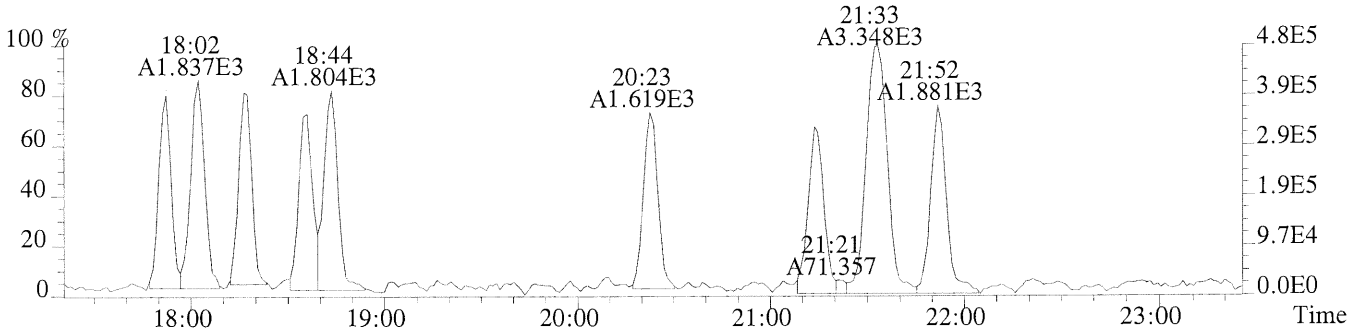
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



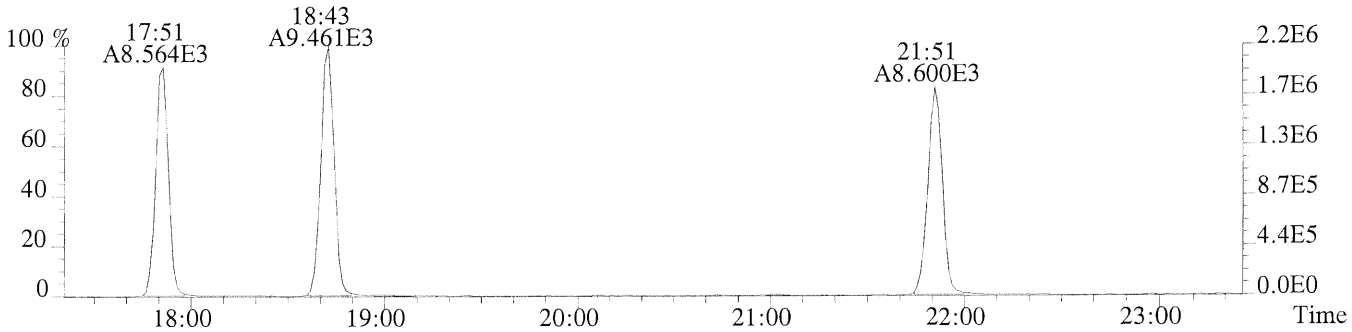
File:U142082 #1-336 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5464.0,1.00%,F,T)



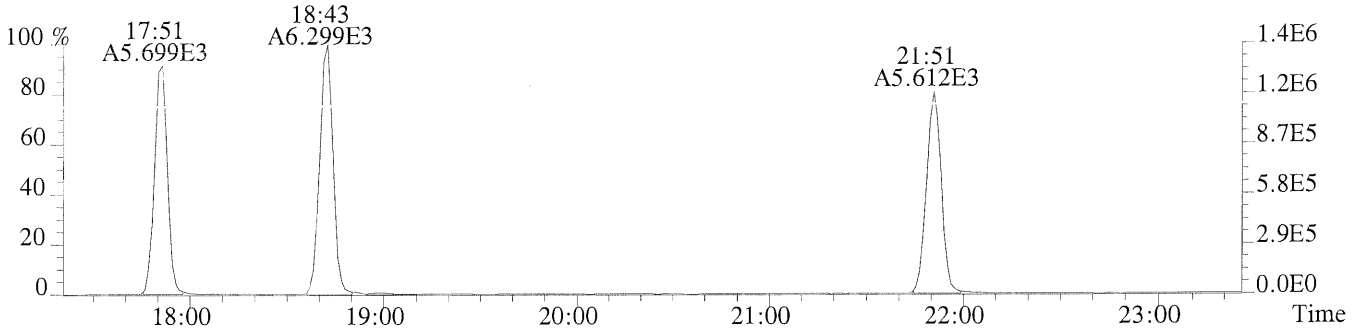
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,25724.0,1.00%,F,T)



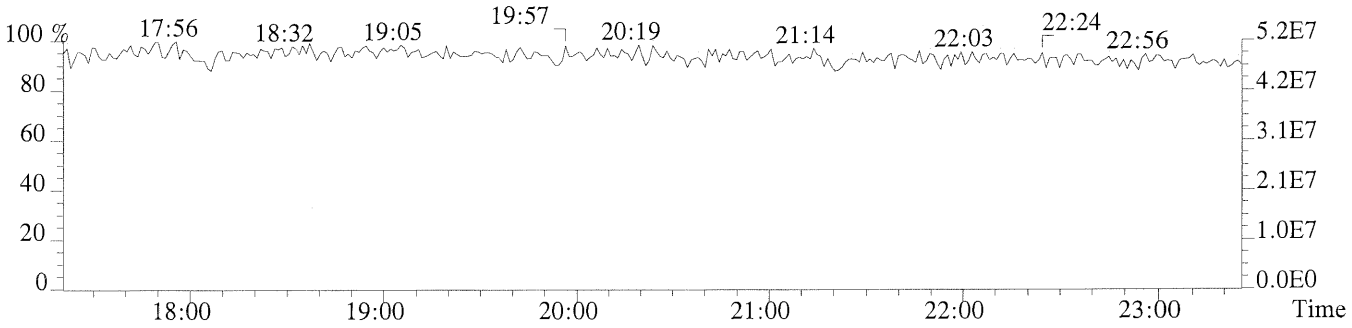
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3292.0,1.00%,F,T)



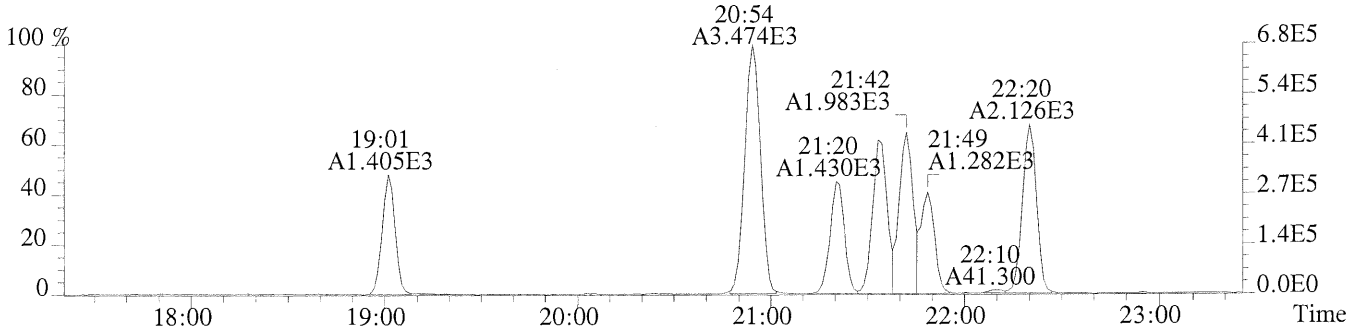
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3668.0,1.00%,F,T)



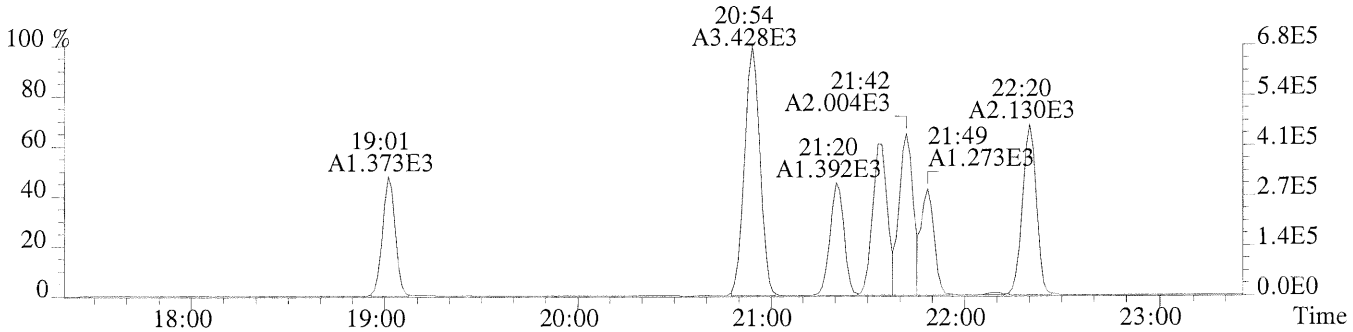
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



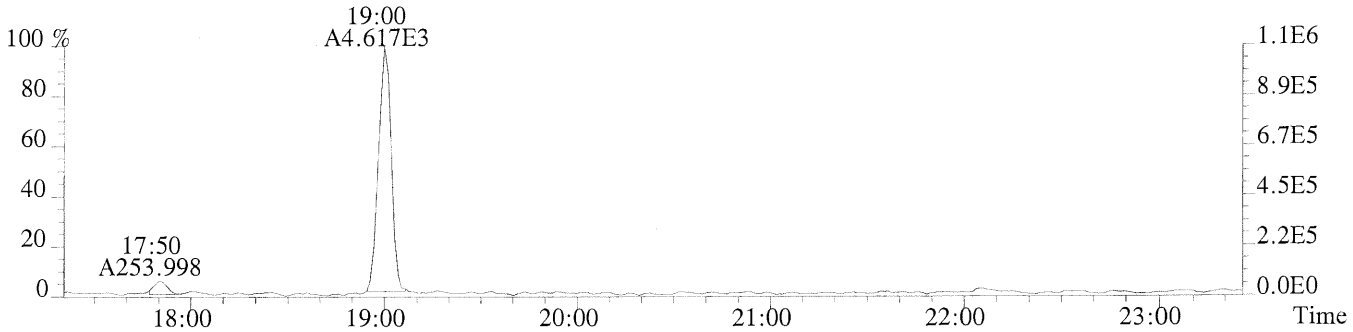
File:U142082 #1-336 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2324.0,1.00%,F,T)



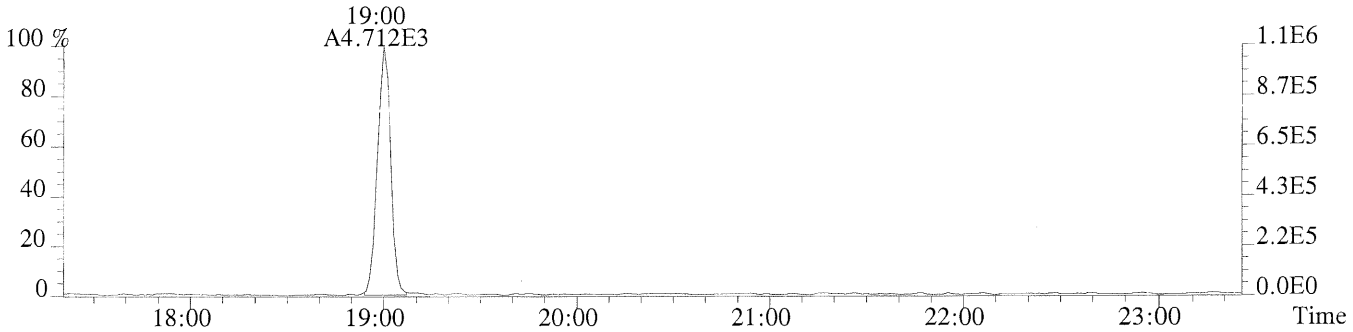
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2272.0,1.00%,F,T)



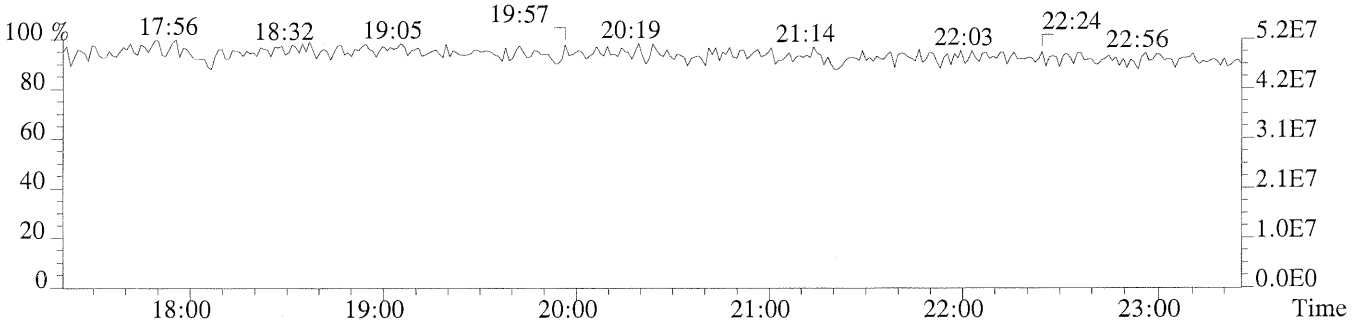
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,19584.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9520.0,1.00%,F,T)

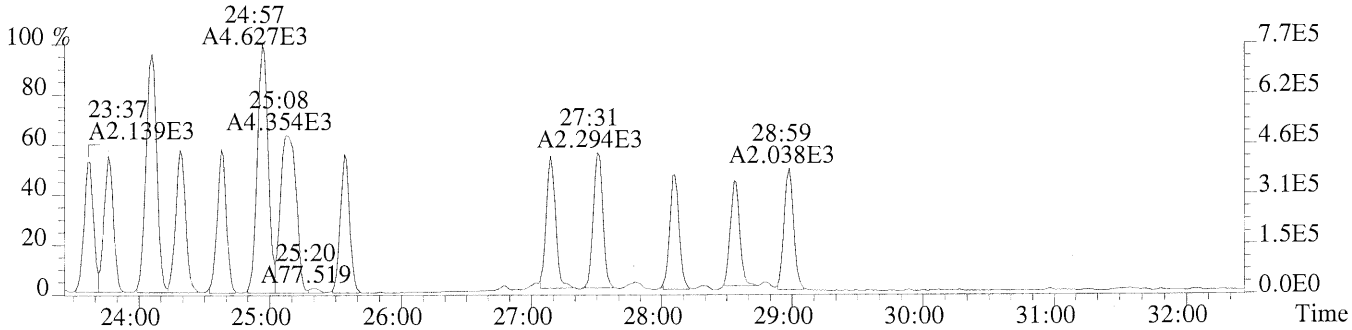


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

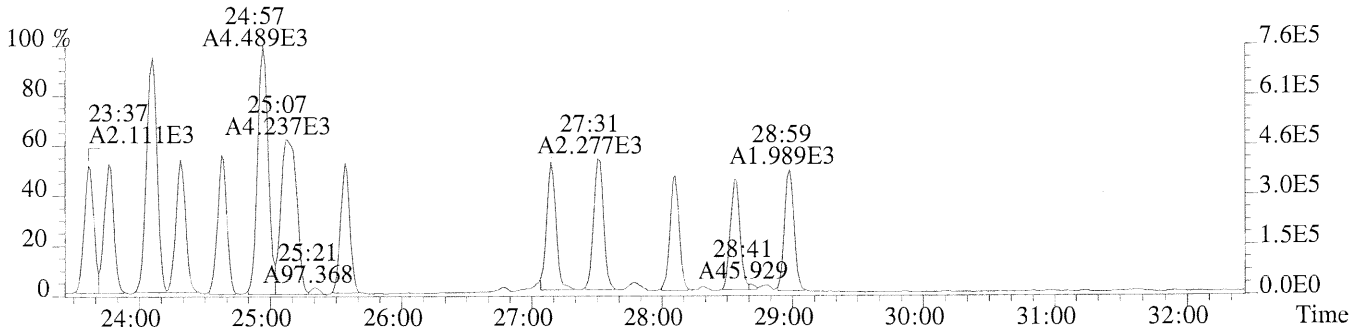


File:U142082 #1-576 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

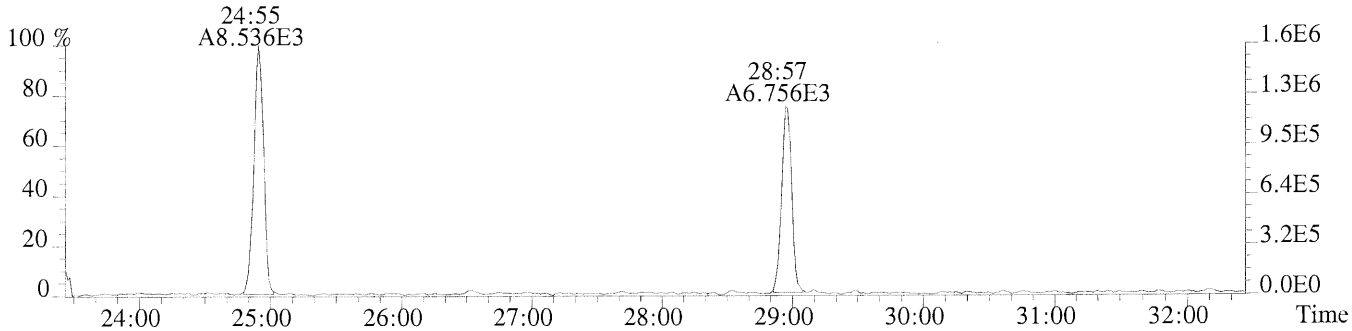
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16032.0,1.00%,F,T)



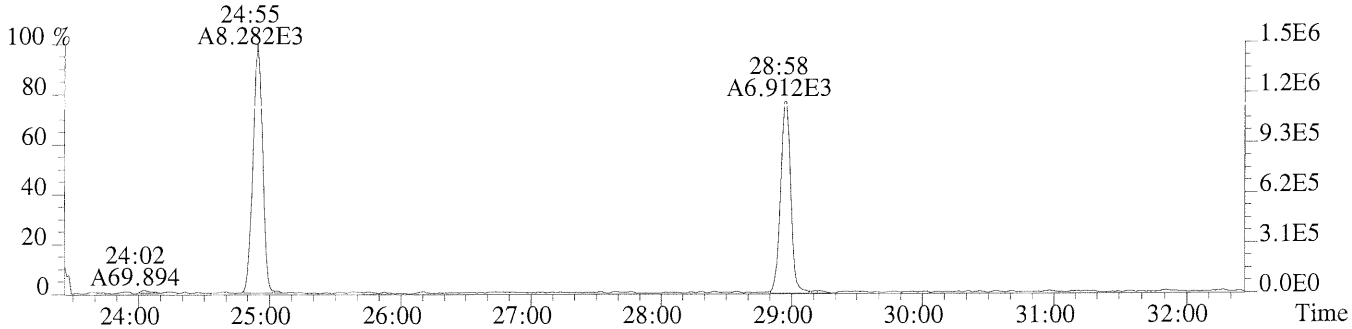
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14852.0,1.00%,F,T)



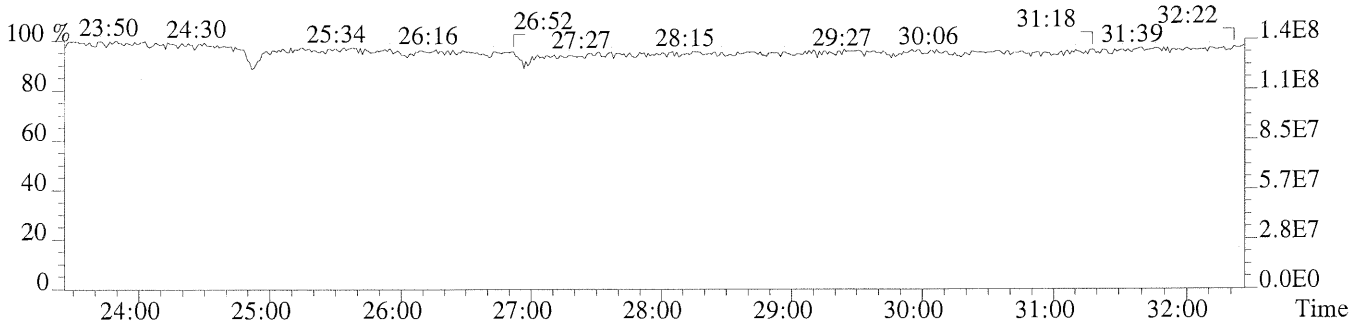
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17420.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10476.0,1.00%,F,T)

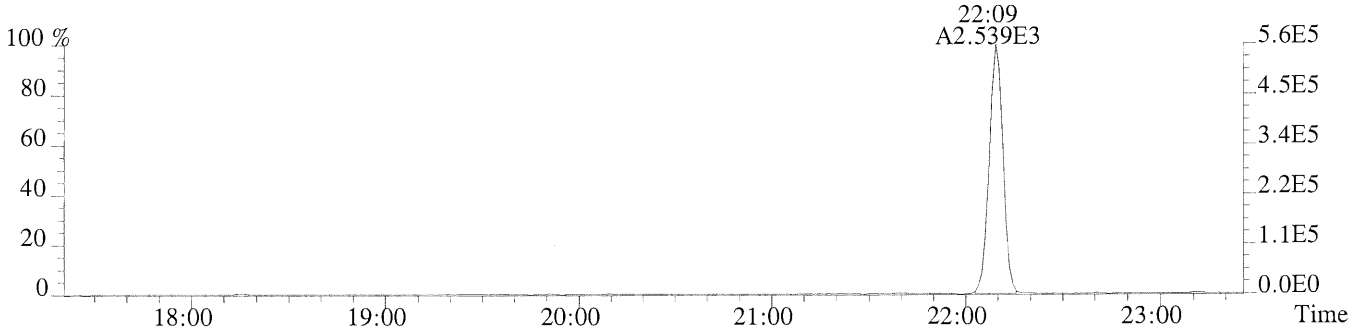


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

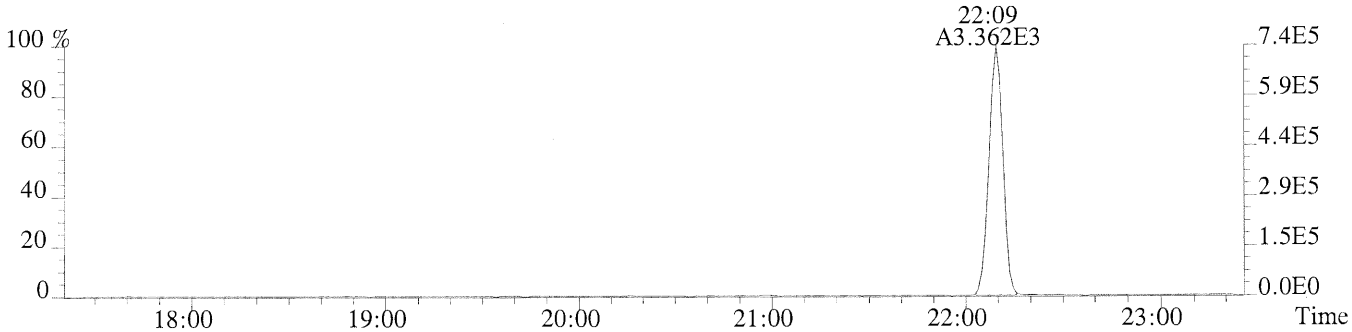


File:U142082 #1-336 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

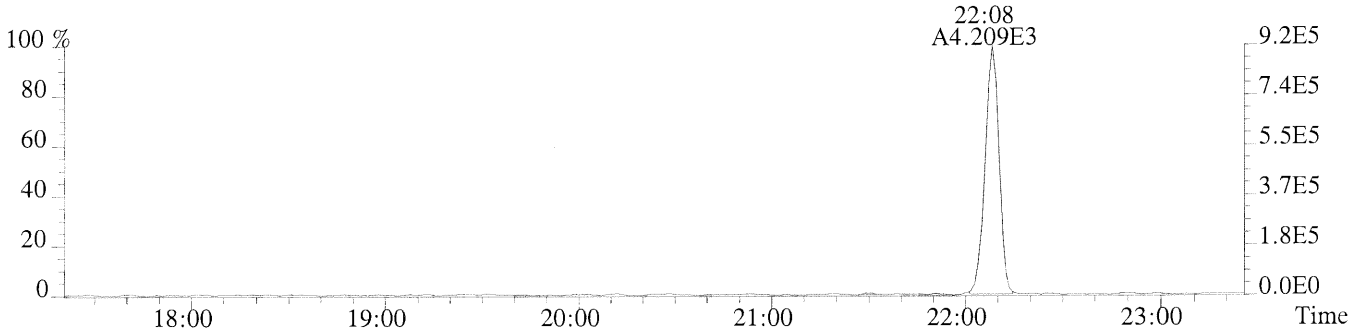
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1768.0,1.00%,F,T)



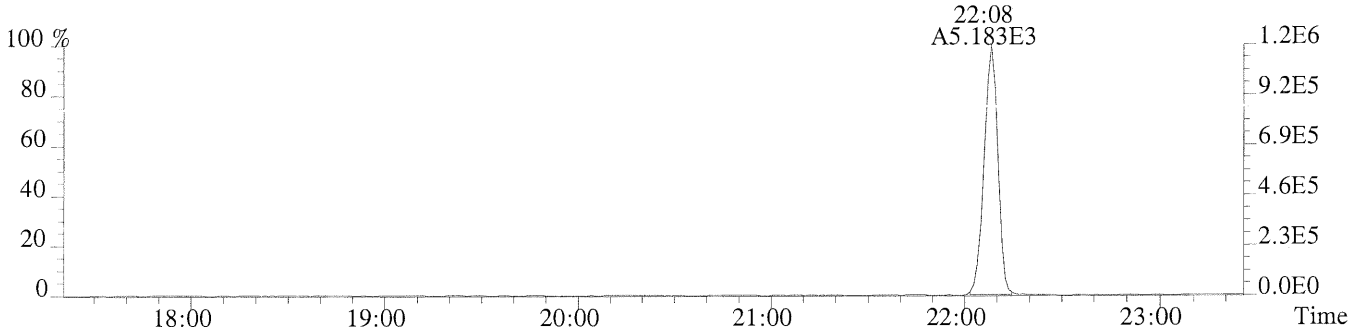
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2020.0,1.00%,F,T)



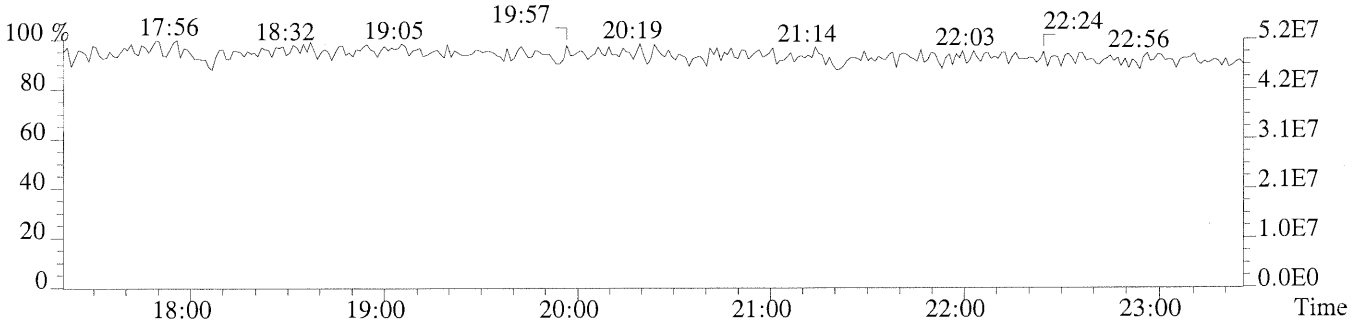
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5936.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2156.0,1.00%,F,T)

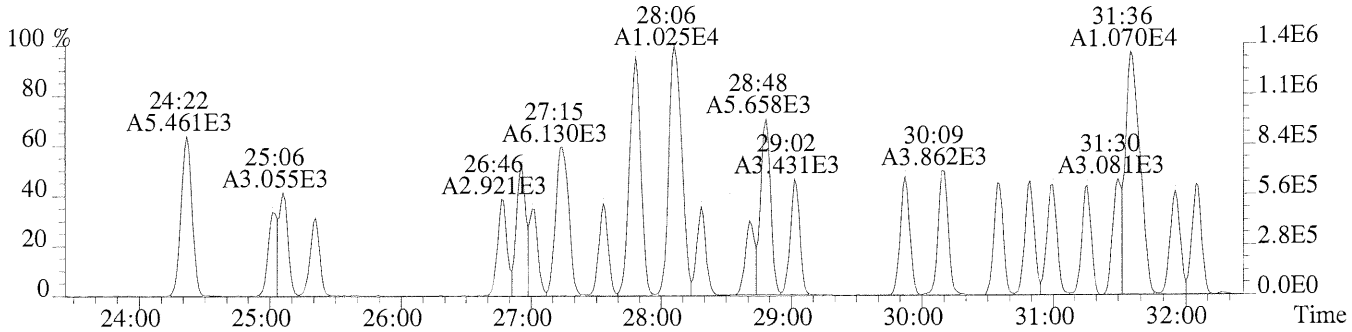


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

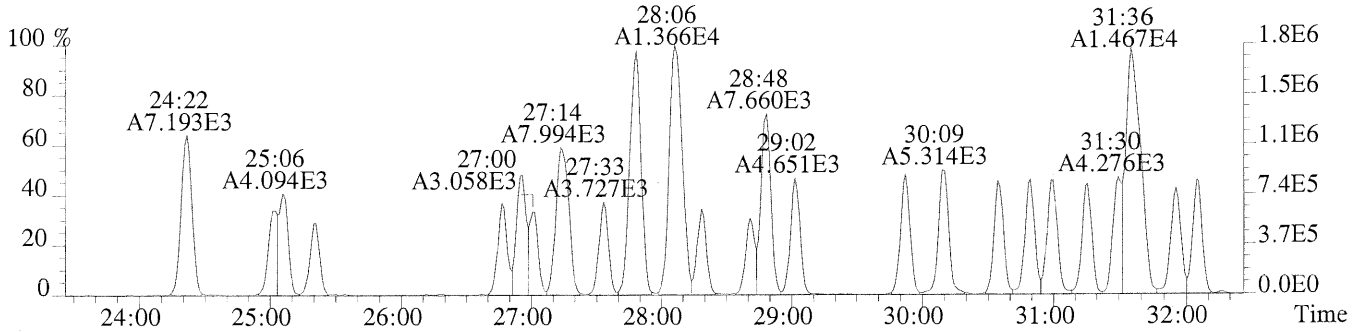


File:U142082 #1-576 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

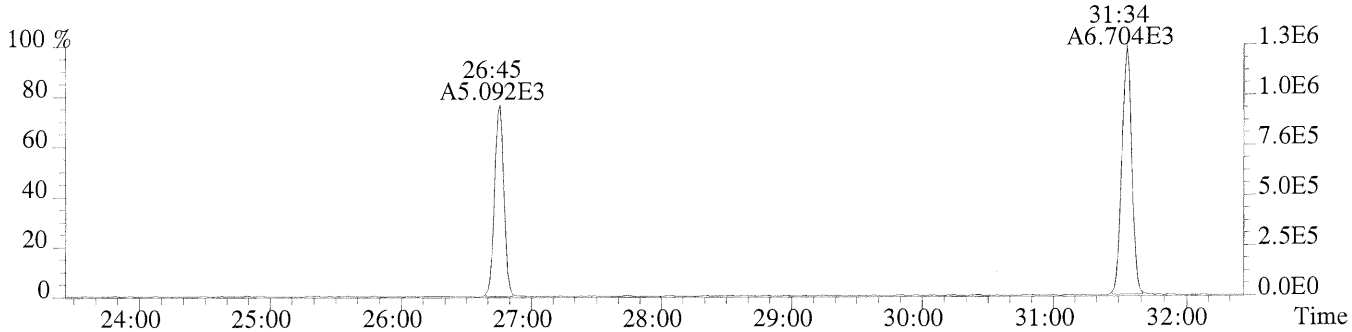
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1800.0,1.00%,F,T)



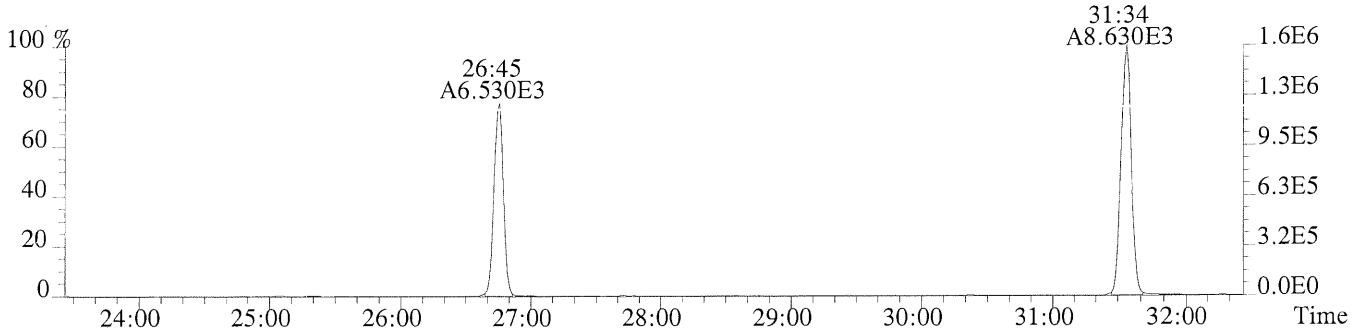
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2268.0,1.00%,F,T)



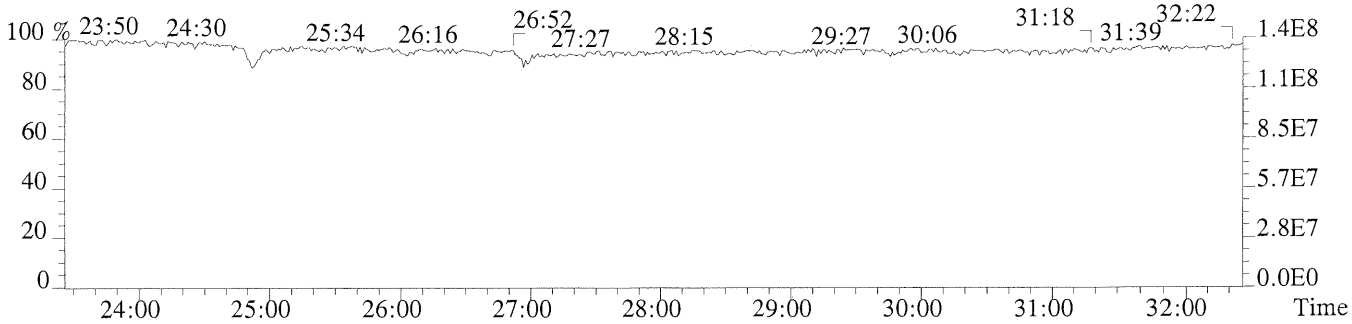
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4744.0,1.00%,F,T)



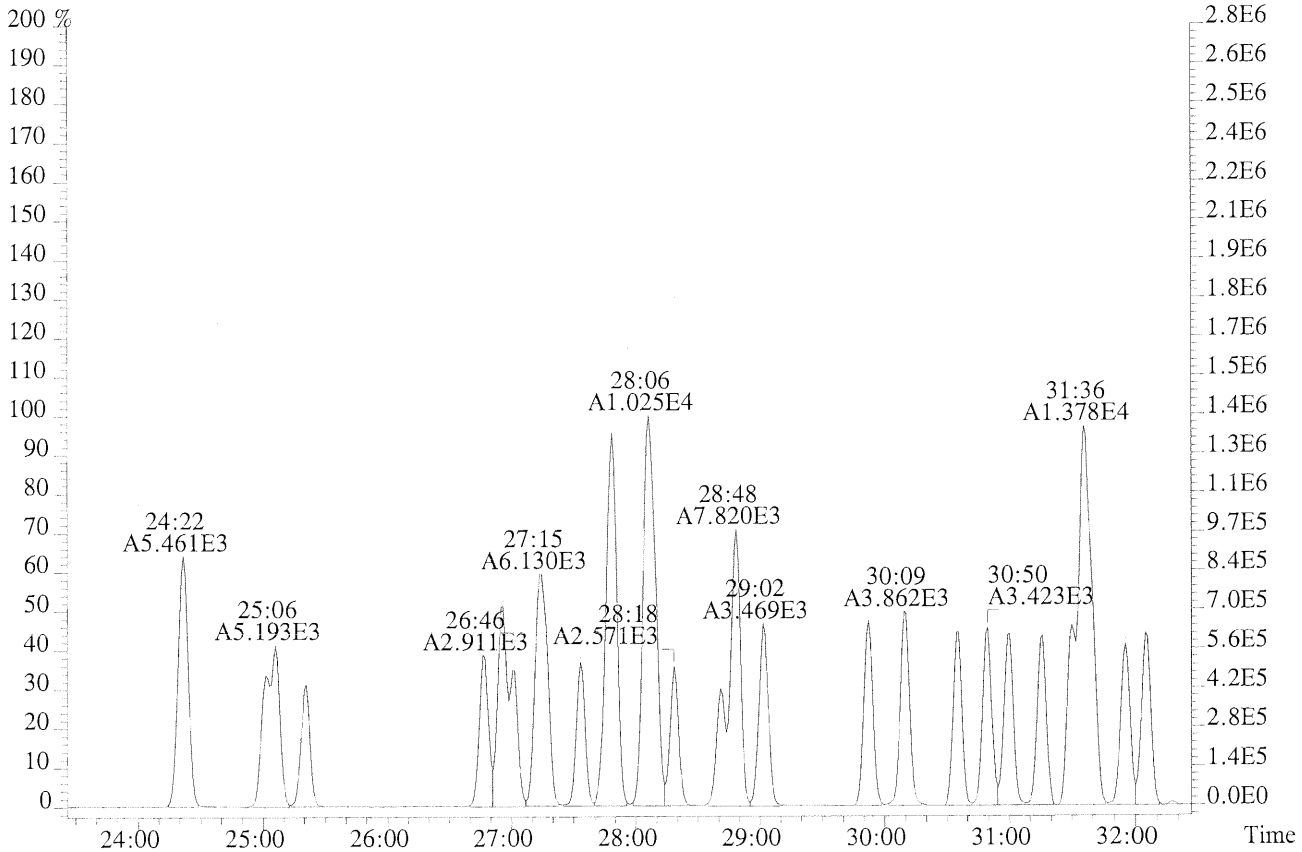
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1480.0,1.00%,F,T)



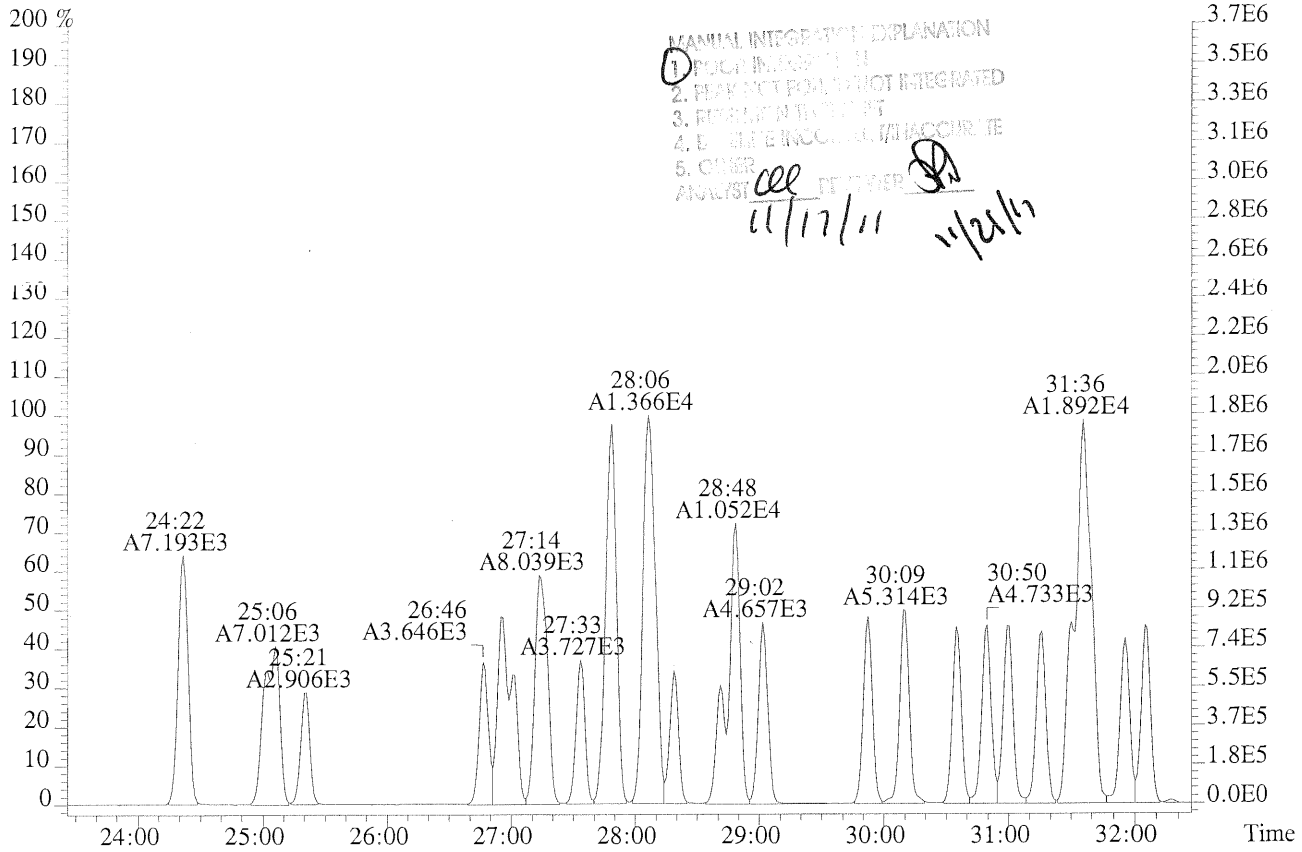
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142082 #1-576 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1800.0,1.00%,F,T)

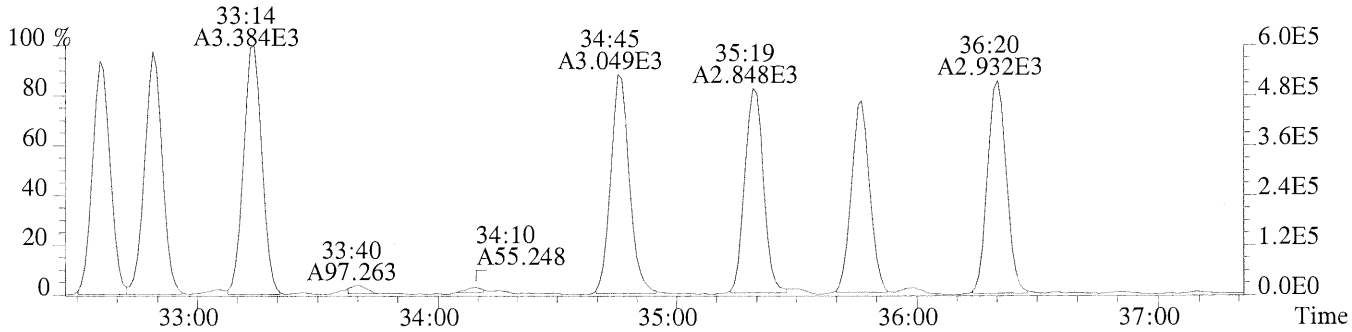


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2268.0,1.00%,F,T)

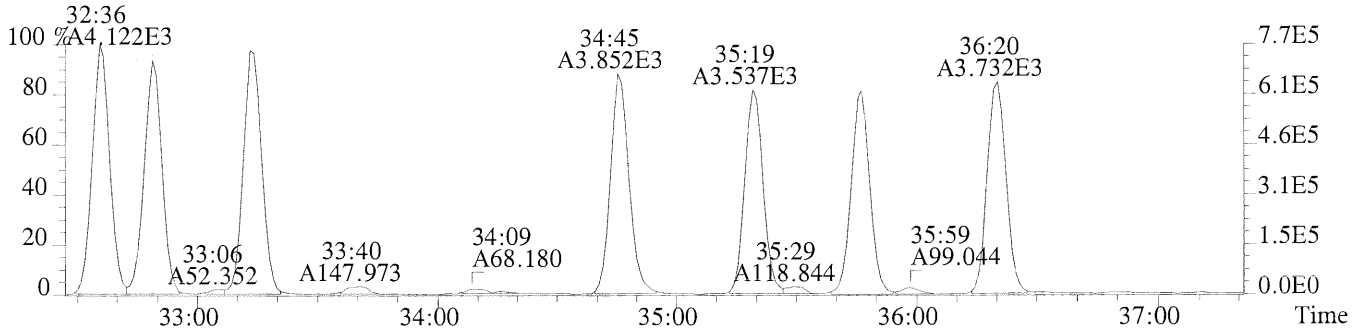


File:U142082 #1-314 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

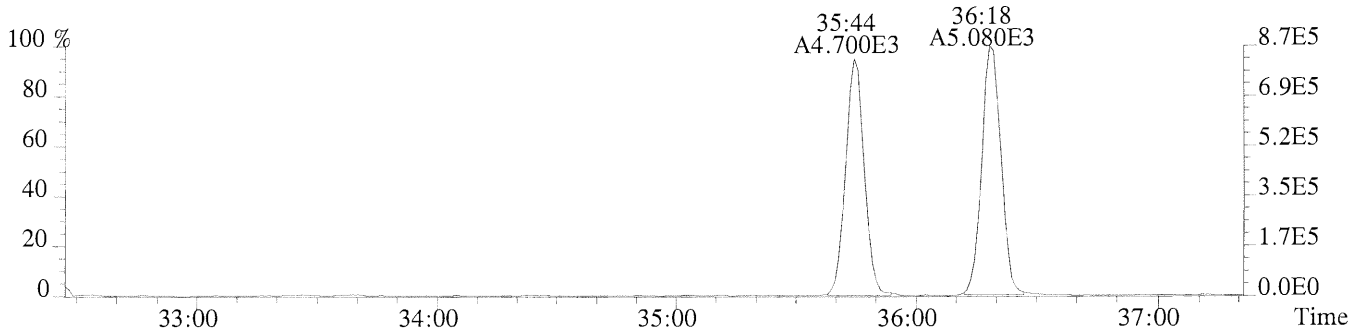
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5992.0,1.00%,F,T)



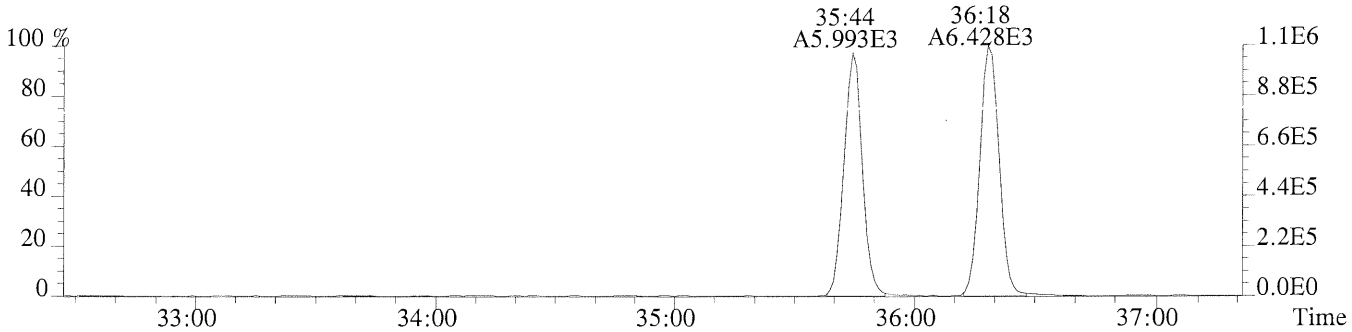
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4956.0,1.00%,F,T)



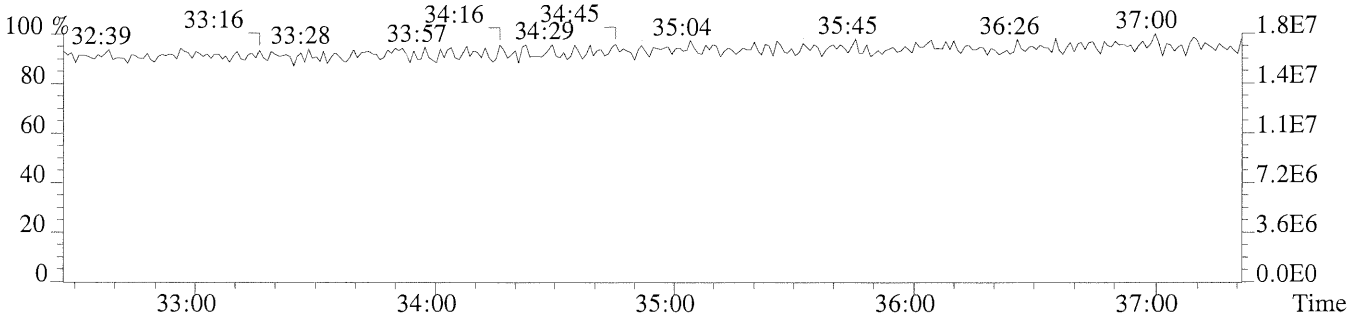
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3216.0,1.00%,F,T)



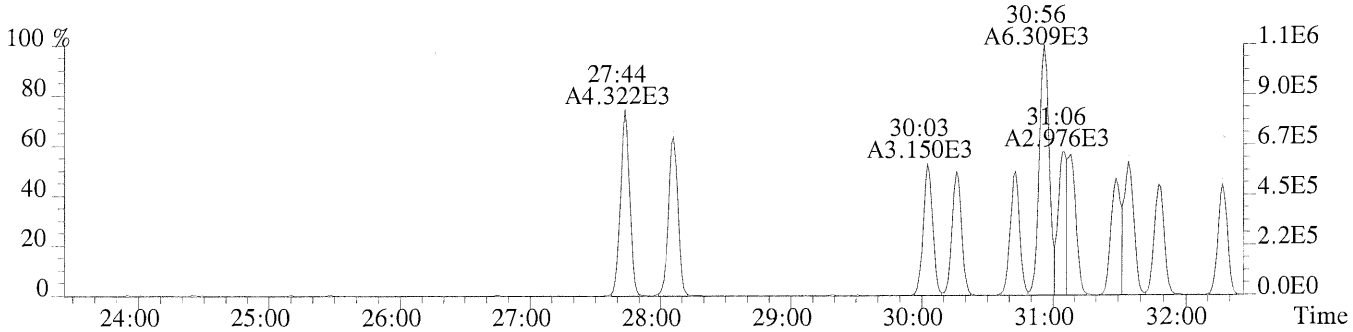
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1360.0,1.00%,F,T)



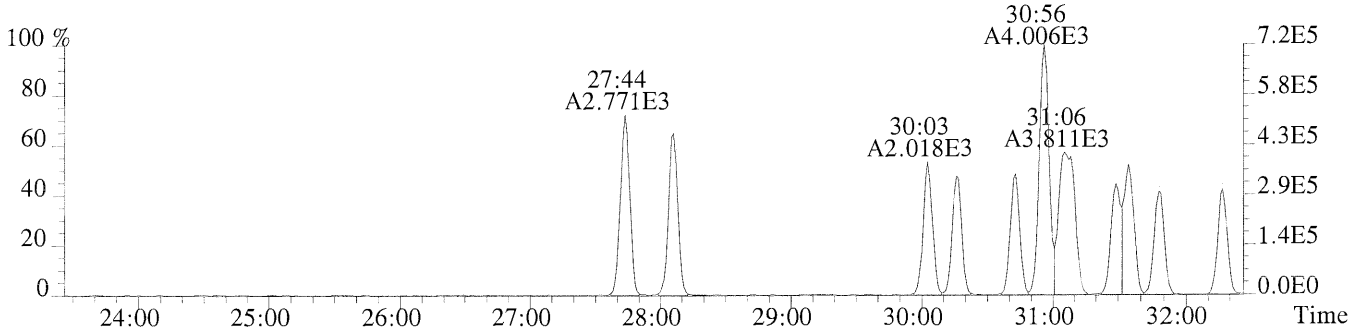
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



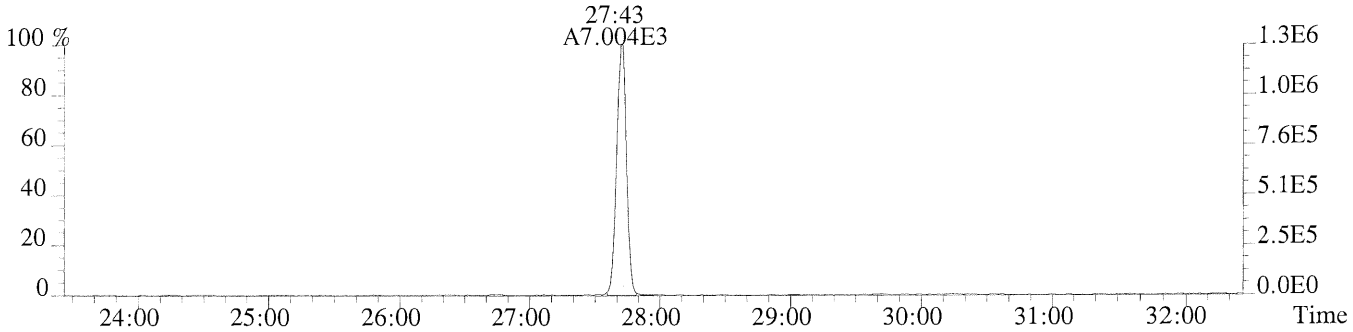
File:U142082 #1-576 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)



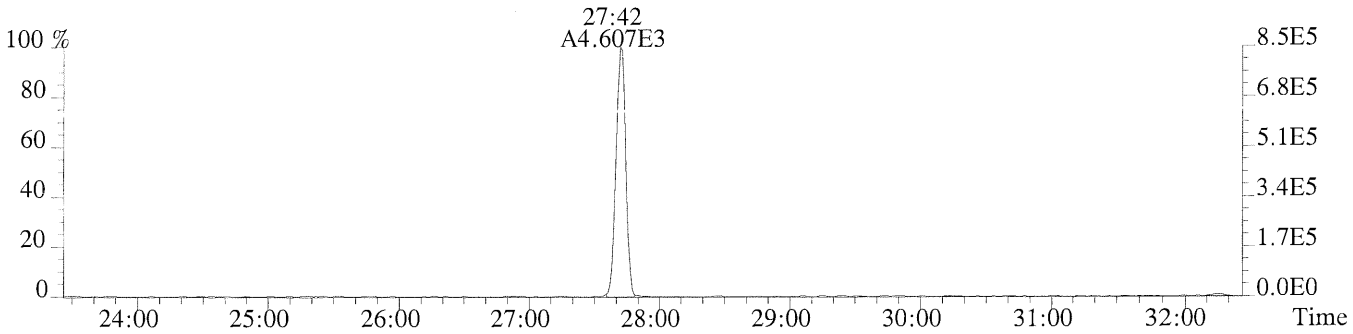
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



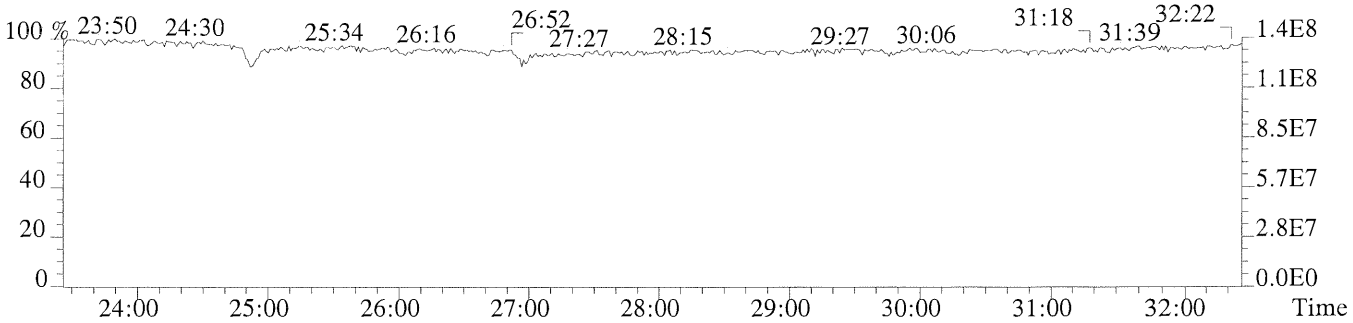
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1888.0,1.00%,F,T)



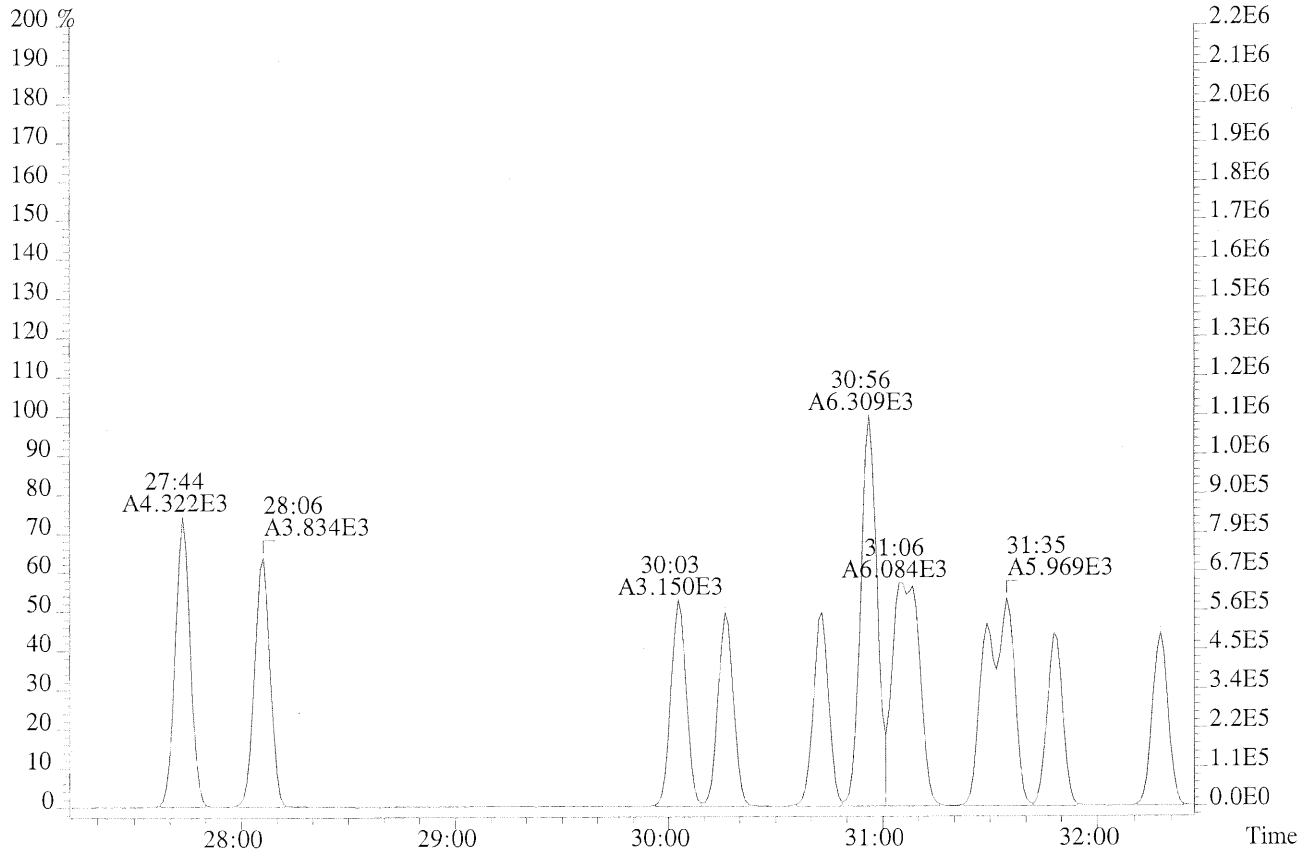
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1068.0,1.00%,F,T)



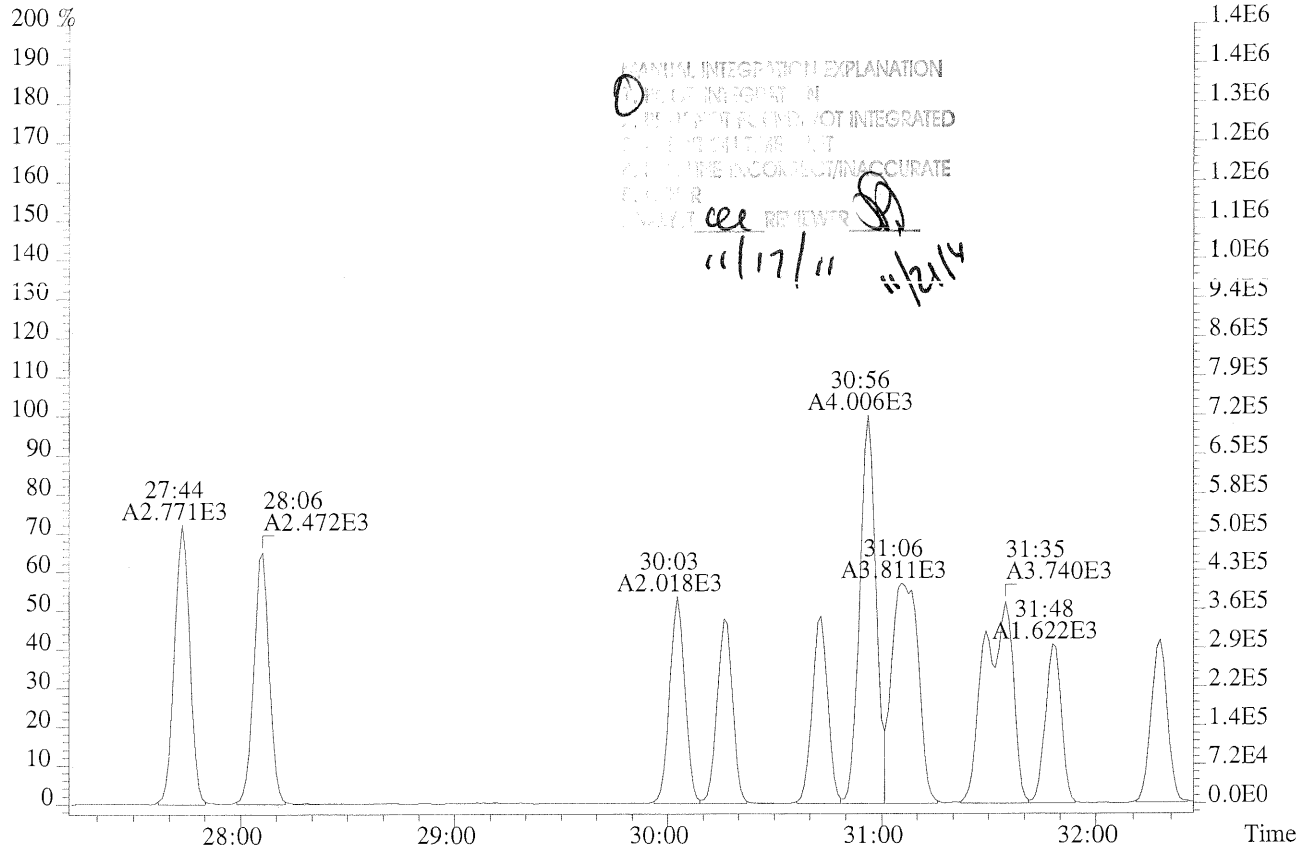
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142082 #1-576 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)

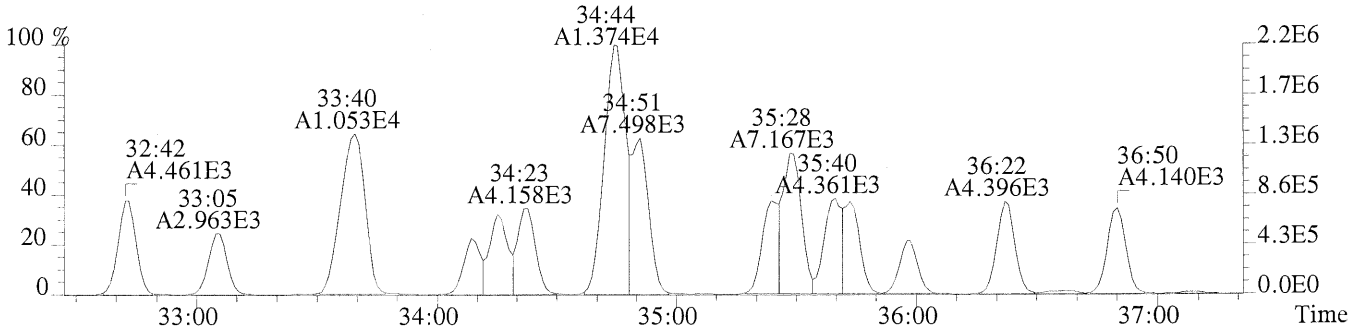


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)

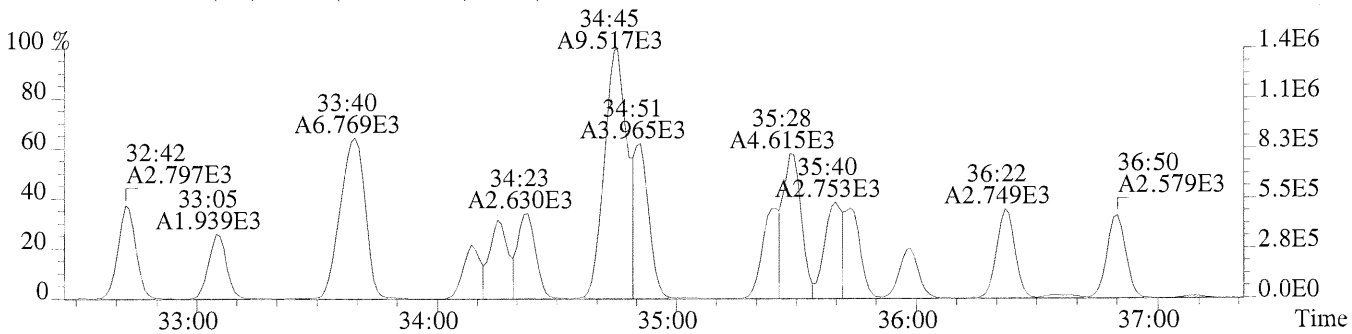


File:U142082 #1-314 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

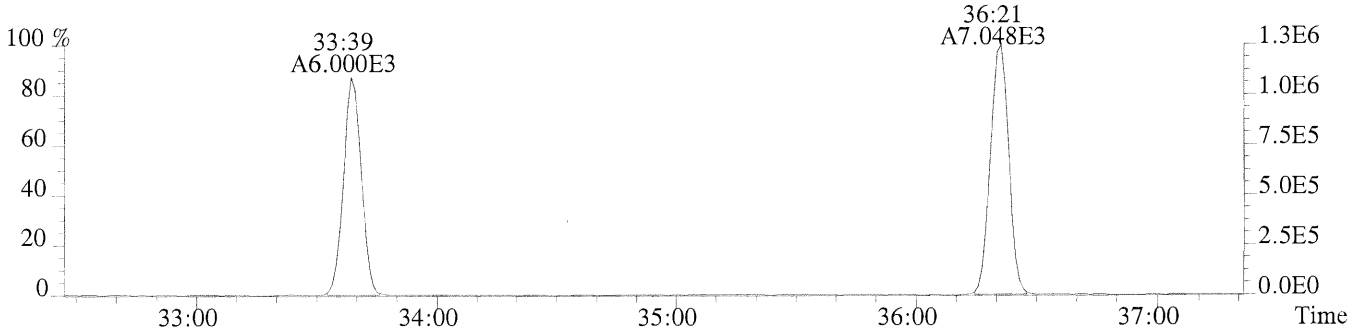
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2972.0,1.00%,F,T)



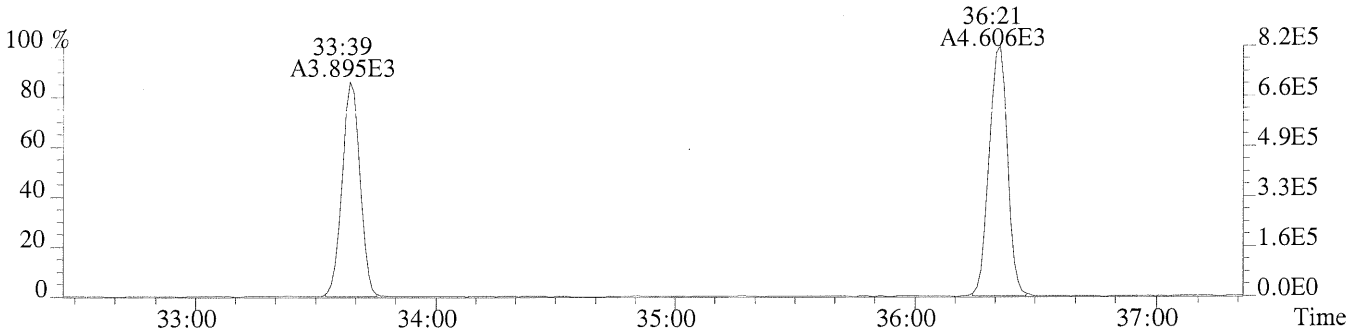
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1980.0,1.00%,F,T)



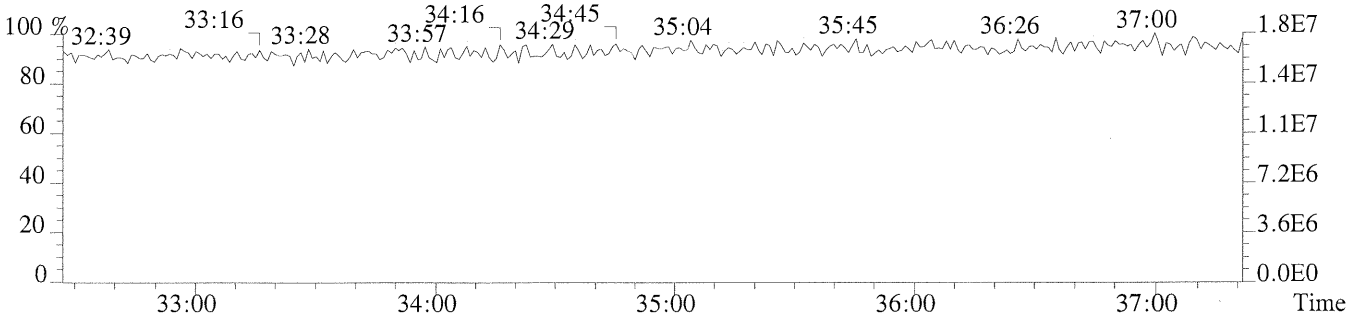
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2512.0,1.00%,F,T)



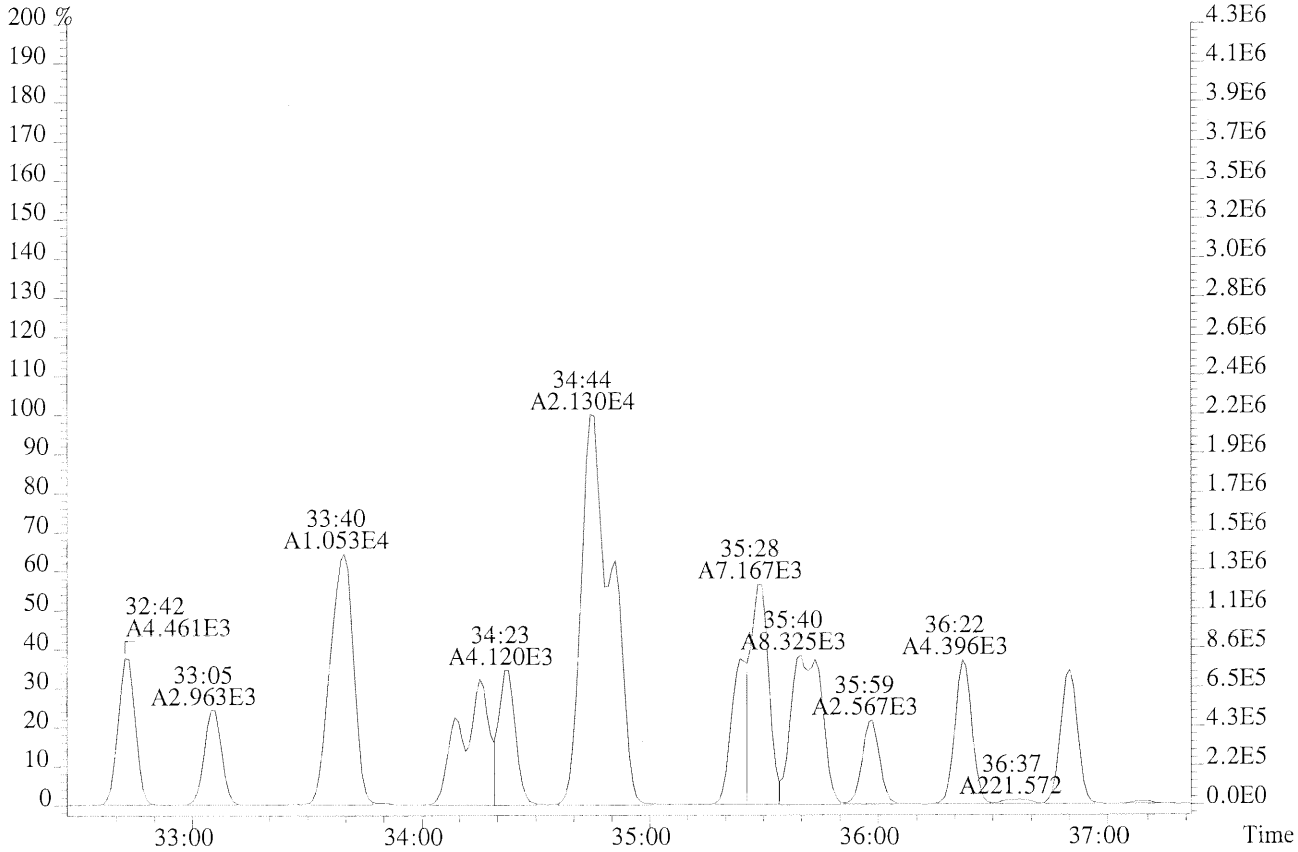
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1868.0,1.00%,F,T)



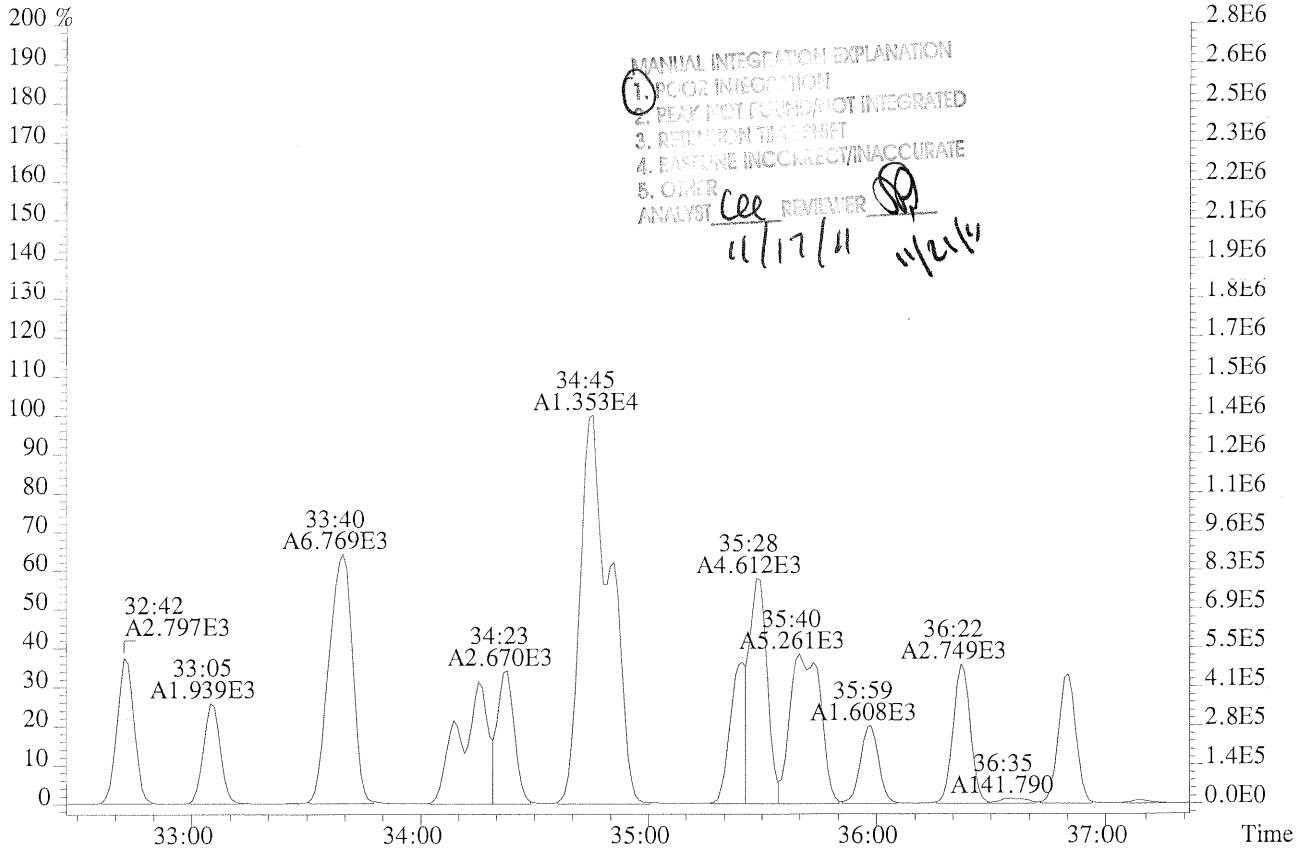
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142082 #1-314 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2972.0,1.00%,F,T)



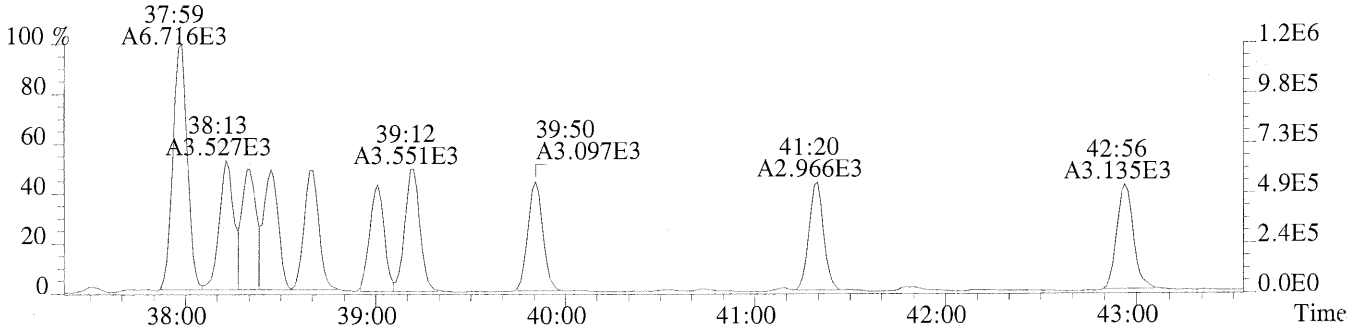
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1980.0,1.00%,F,T)



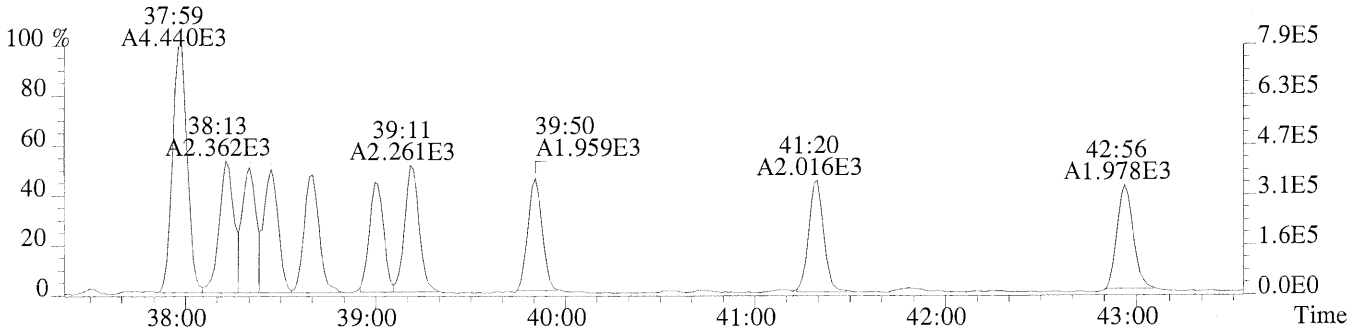
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Cee REVIEWER
11/17/11 11/21/11

File:U142082 #1-396 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

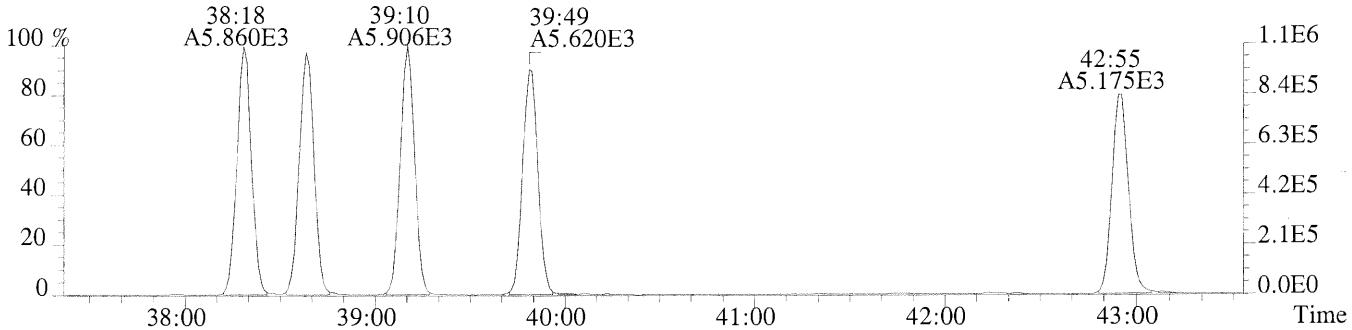
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18056.0,1.00%,F,T)



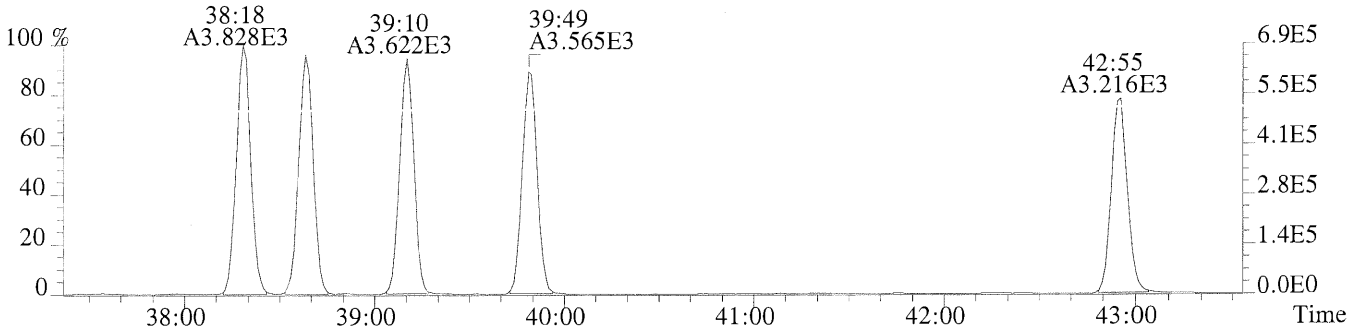
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14352.0,1.00%,F,T)



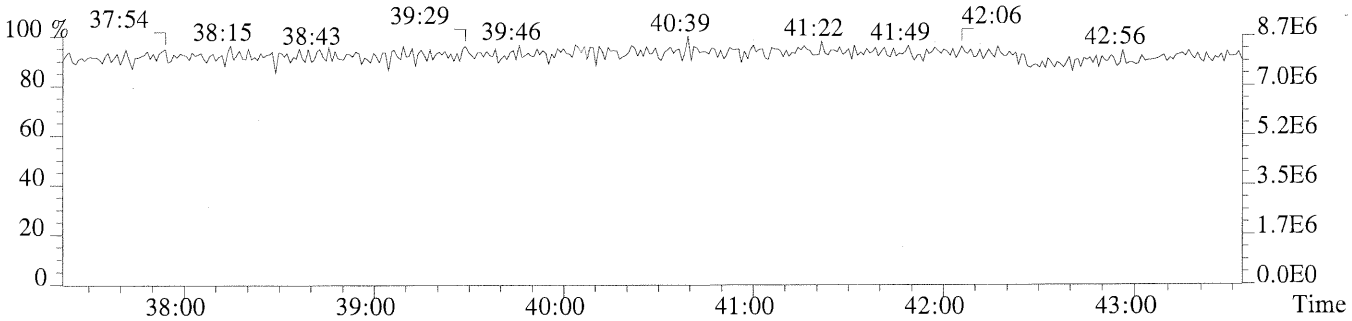
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3516.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2804.0,1.00%,F,T)

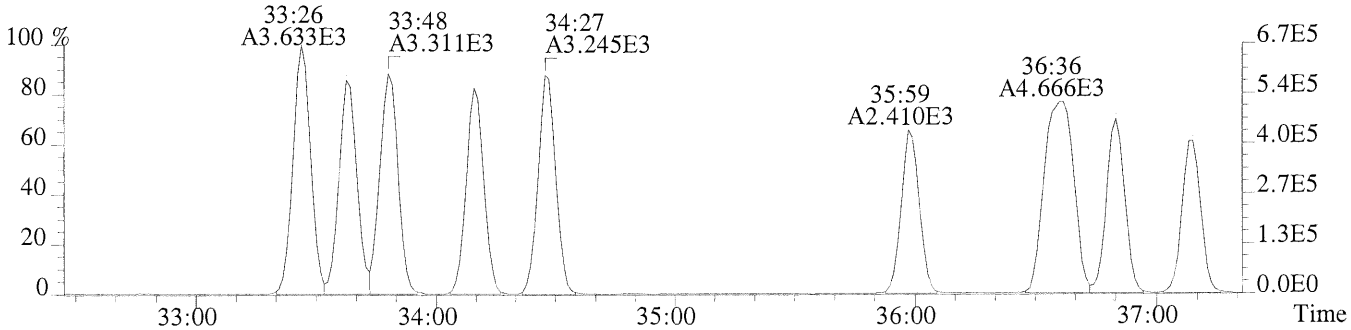


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

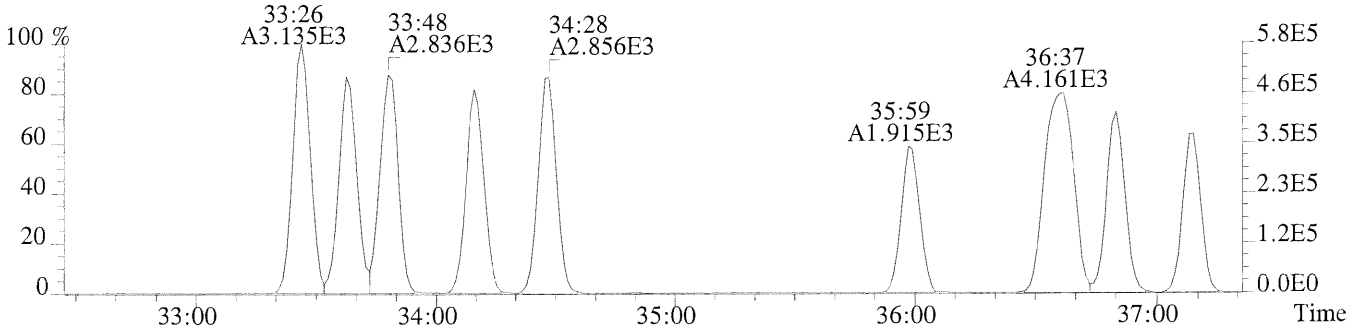


File:U142082 #1-314 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

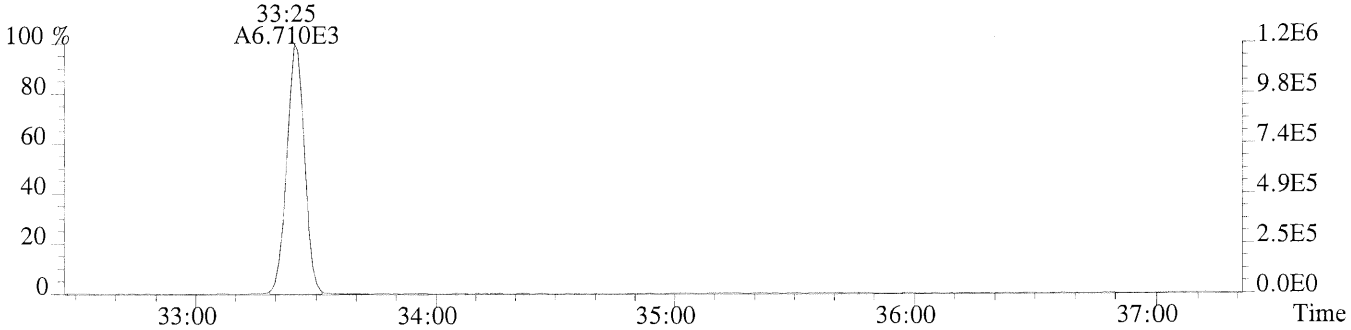
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2432.0,1.00%,F,T)



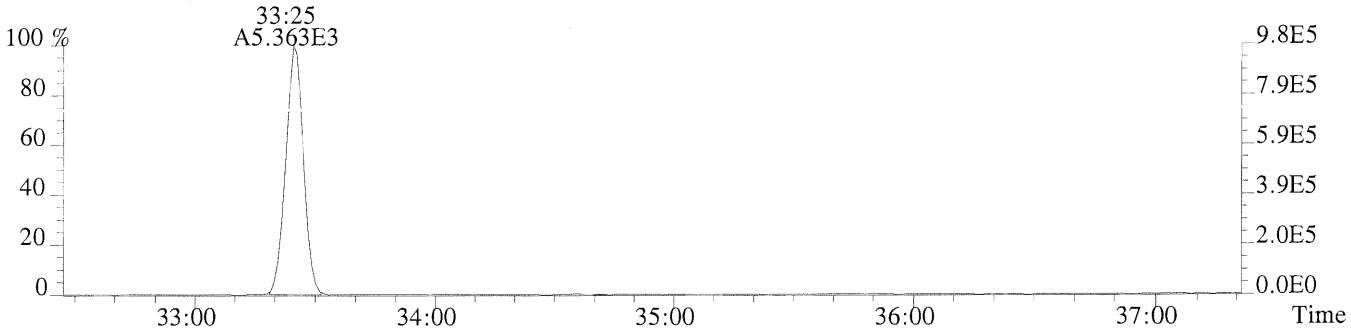
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1720.0,1.00%,F,T)



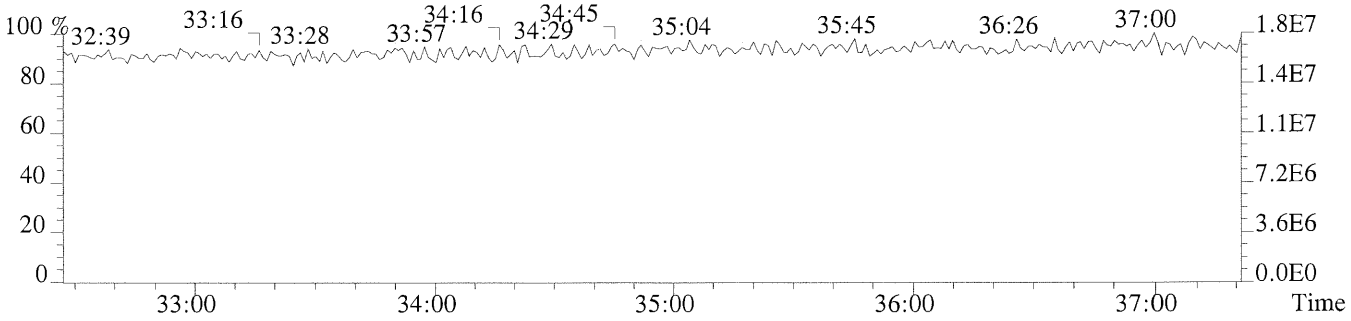
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1844.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2384.0,1.00%,F,T)

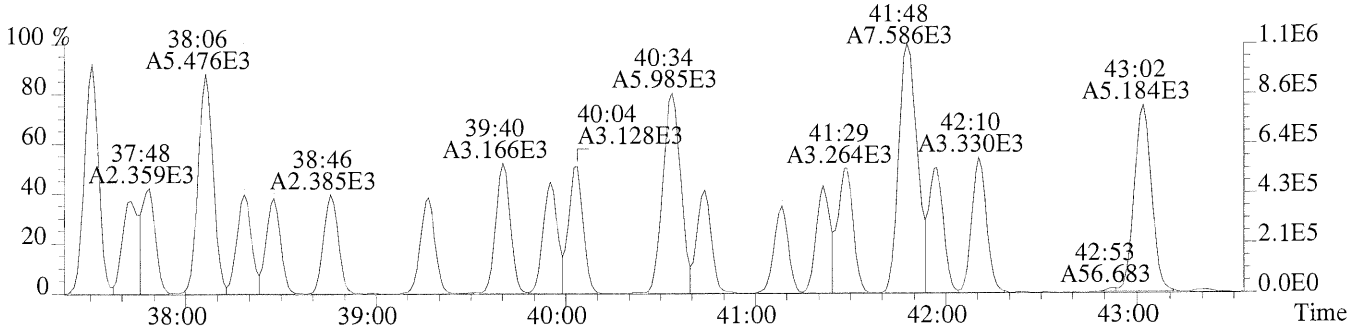


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

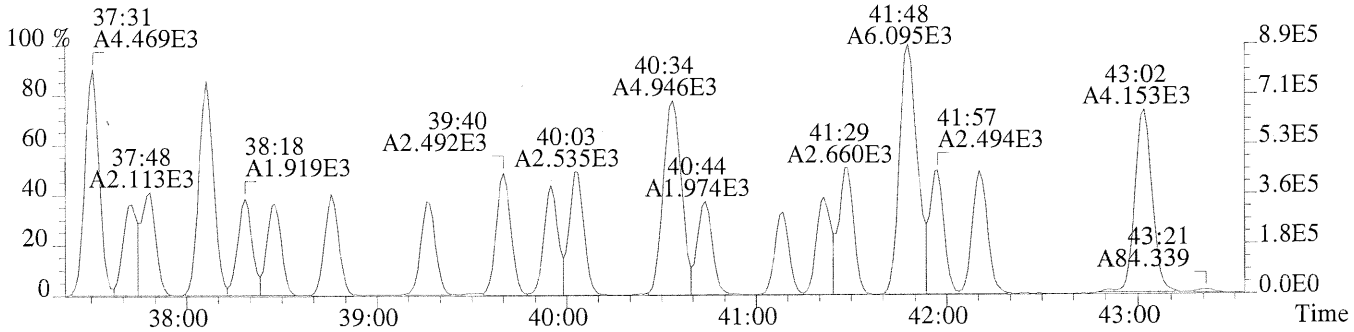


File:U142082 #1-396 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

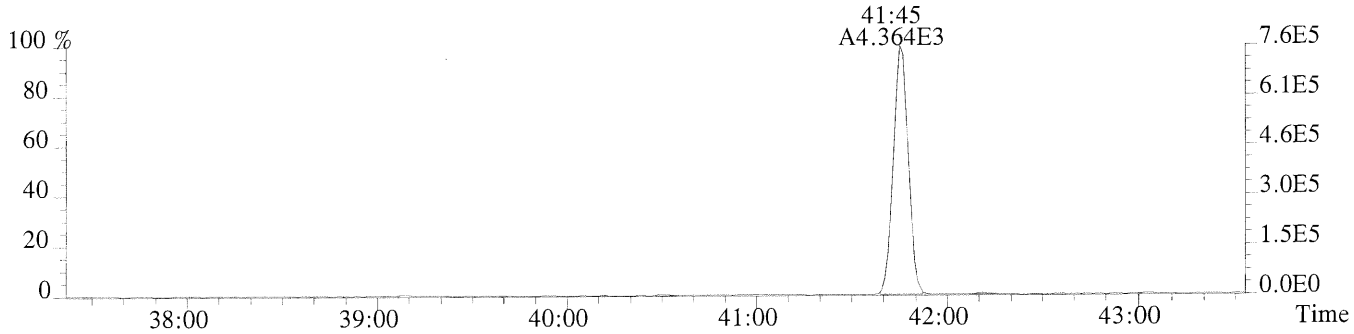
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1572.0,1.00%,F,T)



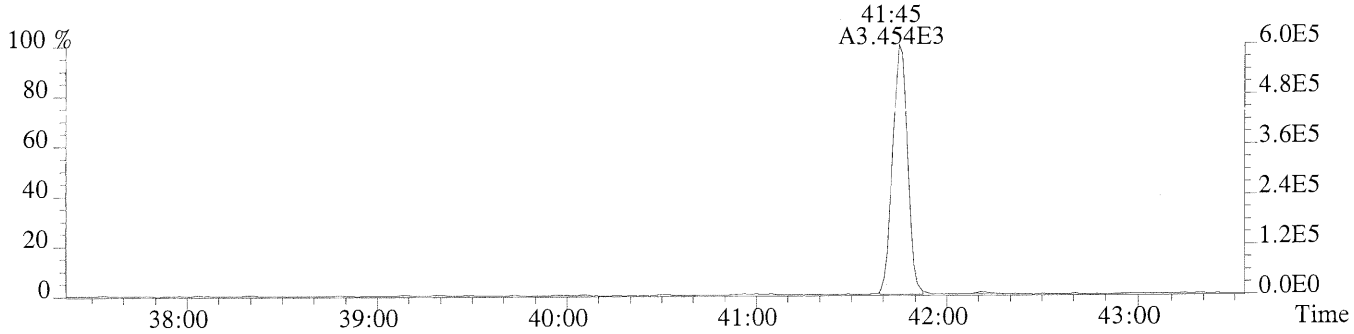
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2492.0,1.00%,F,T)



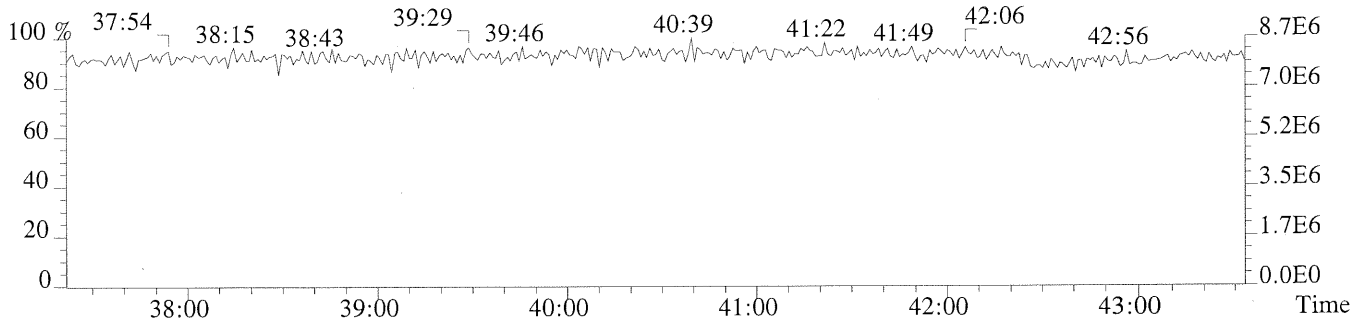
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1656.0,1.00%,F,T)



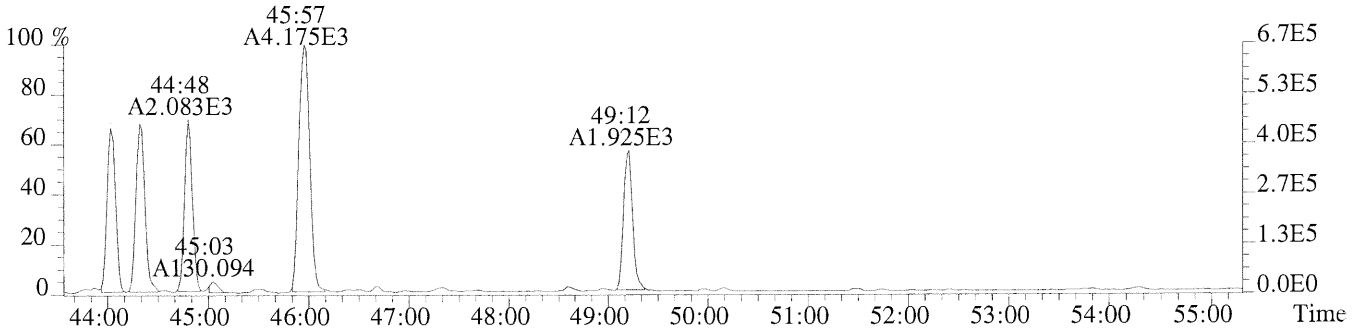
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2200.0,1.00%,F,T)



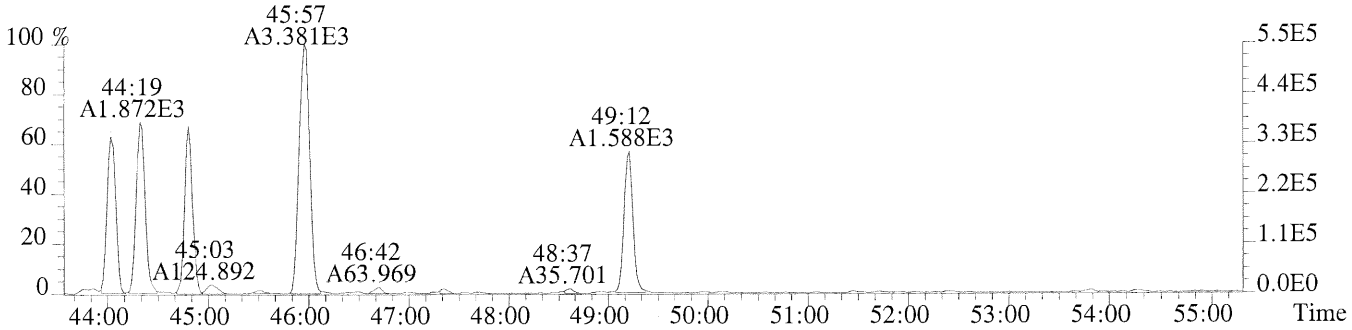
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



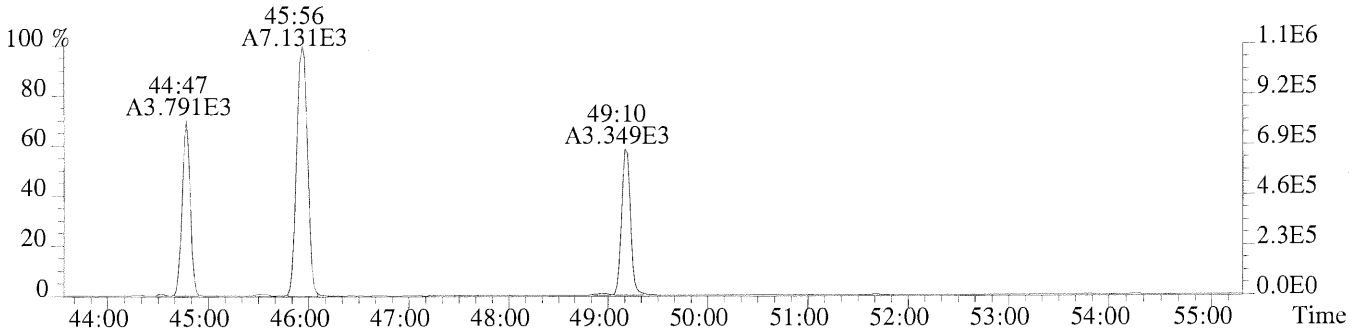
File:U142082 #1-582 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12736.0,1.00%,F,T)



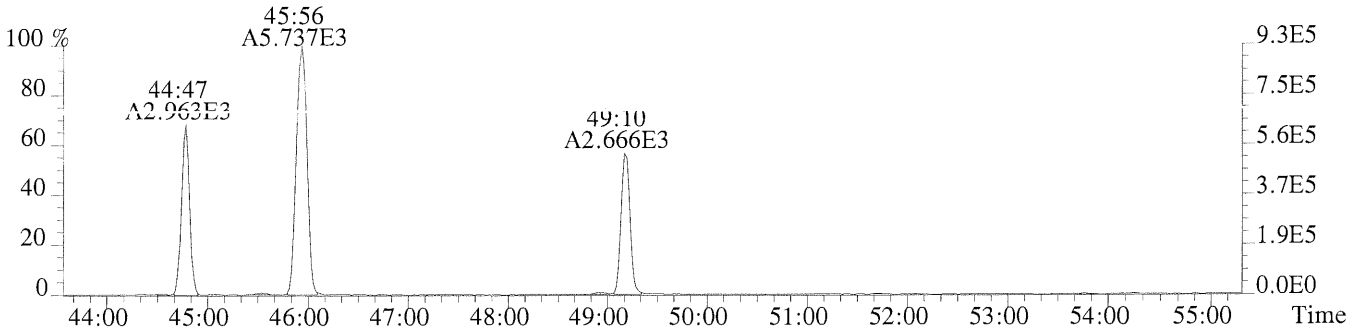
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2608.0,1.00%,F,T)



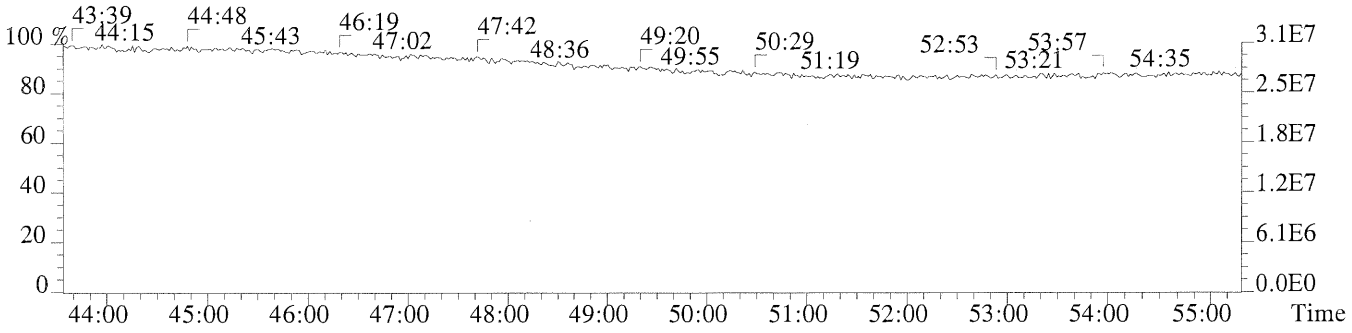
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3120.0,1.00%,F,T)



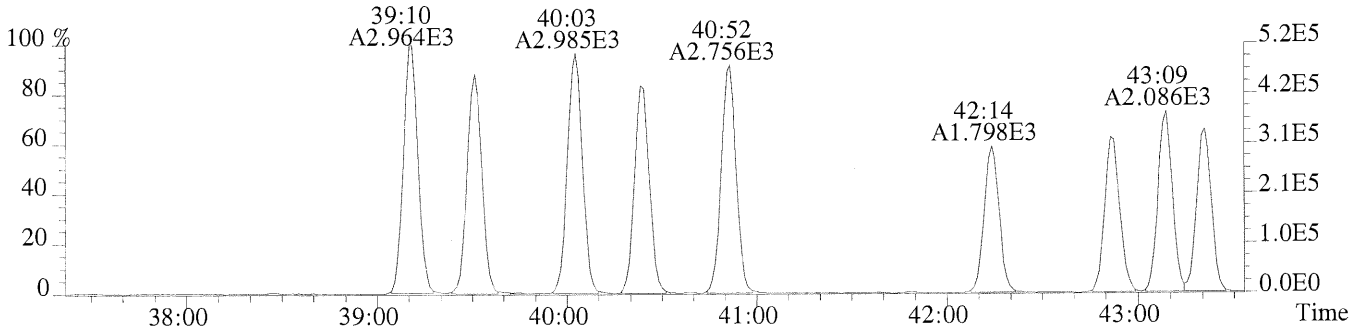
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2000.0,1.00%,F,T)



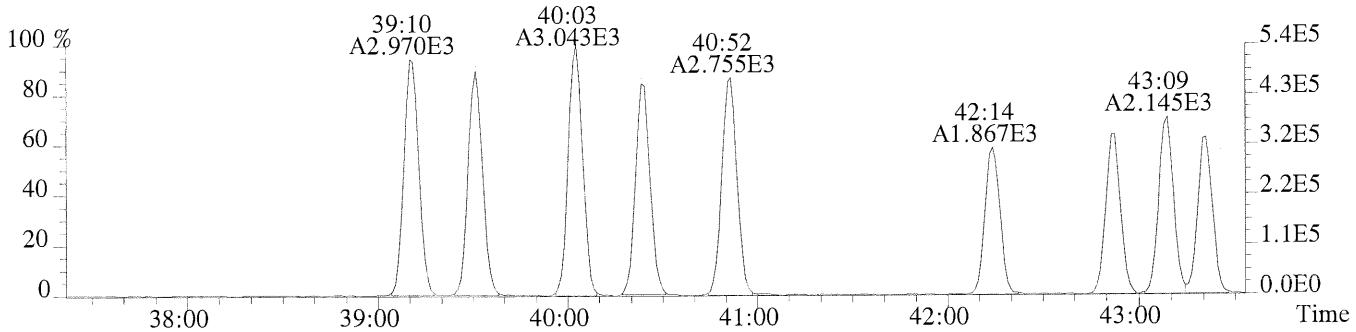
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



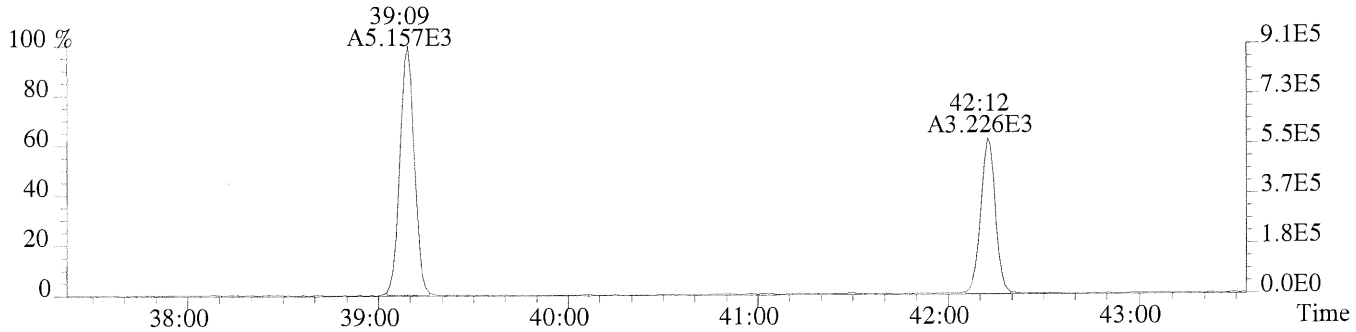
File:U142082 #1-396 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1948.0,1.00%,F,T)



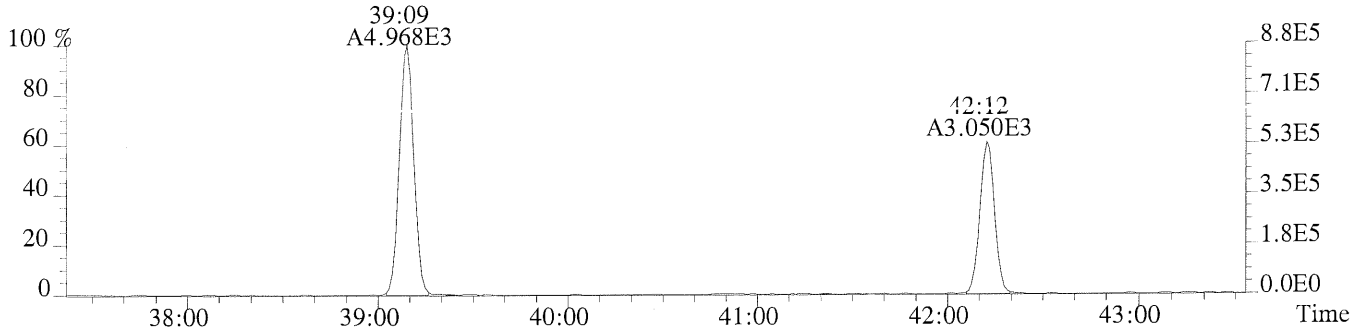
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



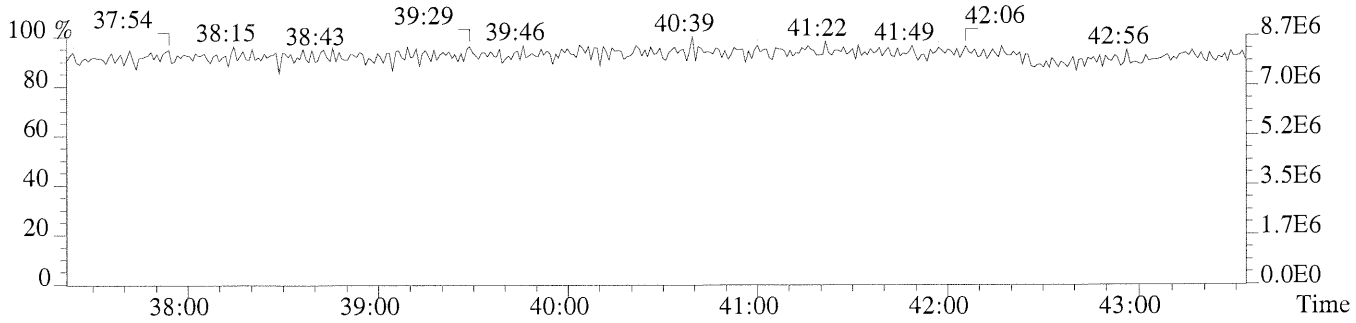
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1764.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1336.0,1.00%,F,T)

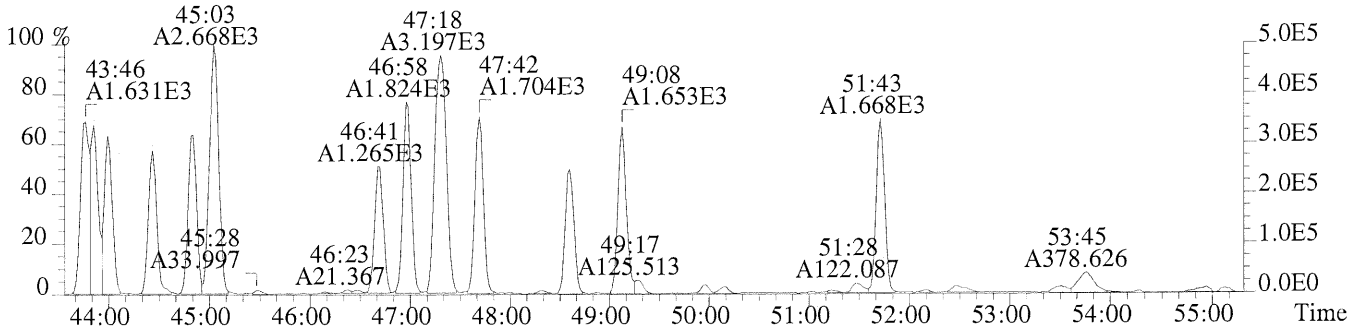


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

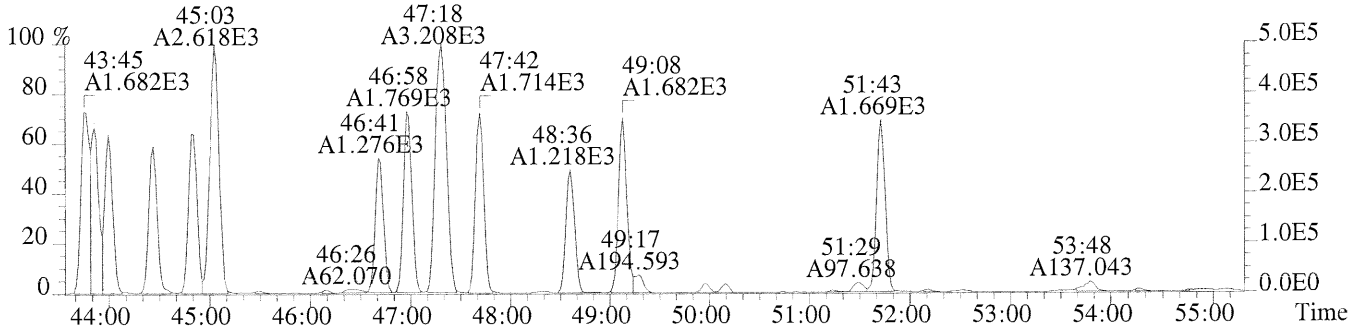


File:U142082 #1-582 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

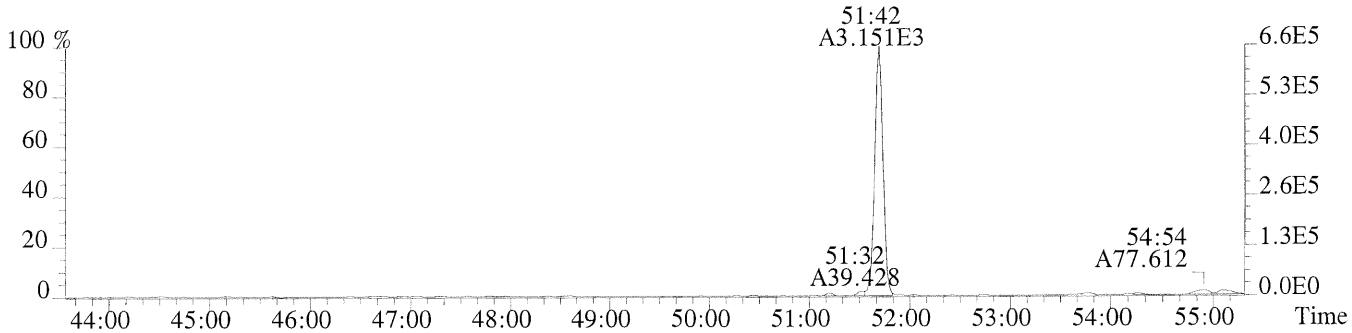
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1780.0,1.00%,F,T)



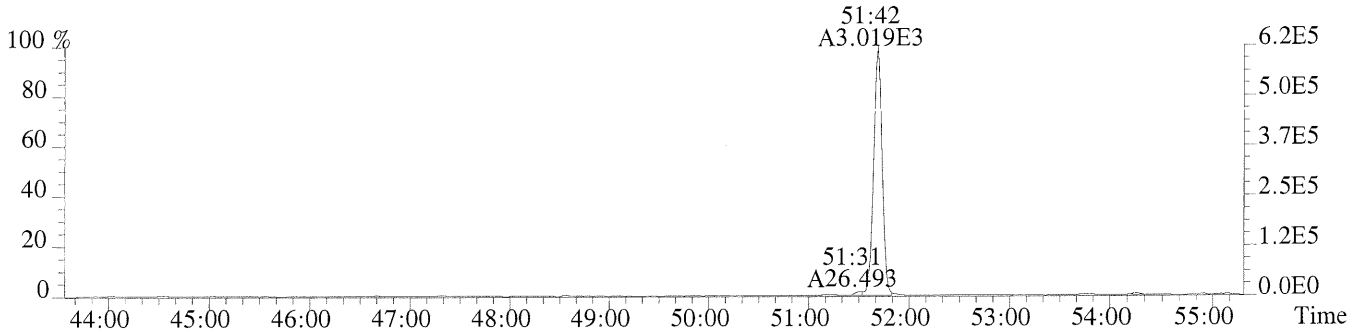
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2068.0,1.00%,F,T)



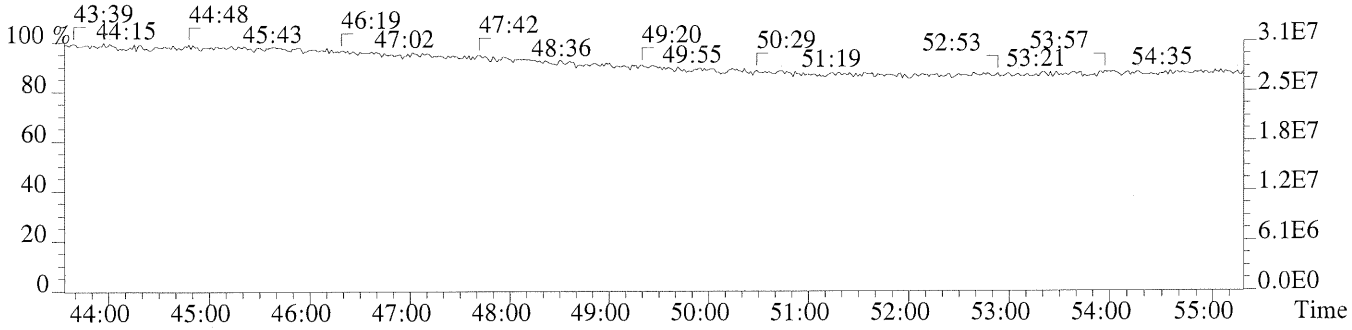
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2436.0,1.00%,F,T)



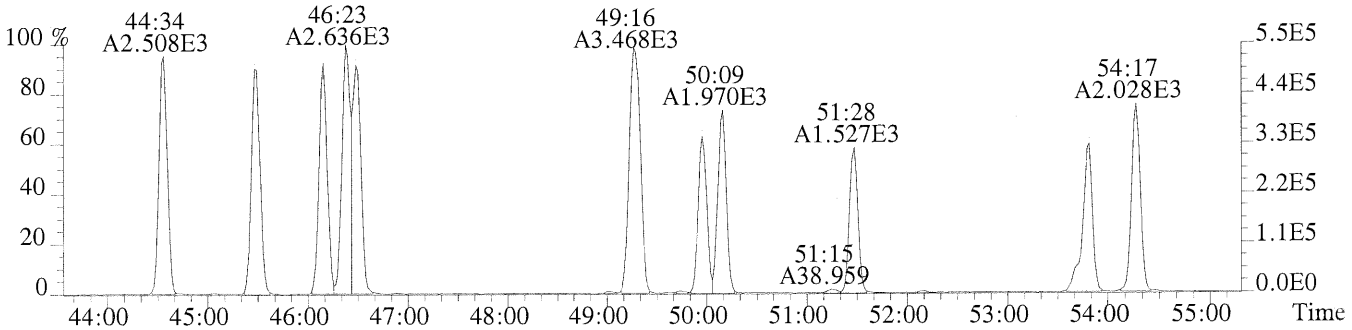
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1708.0,1.00%,F,T)



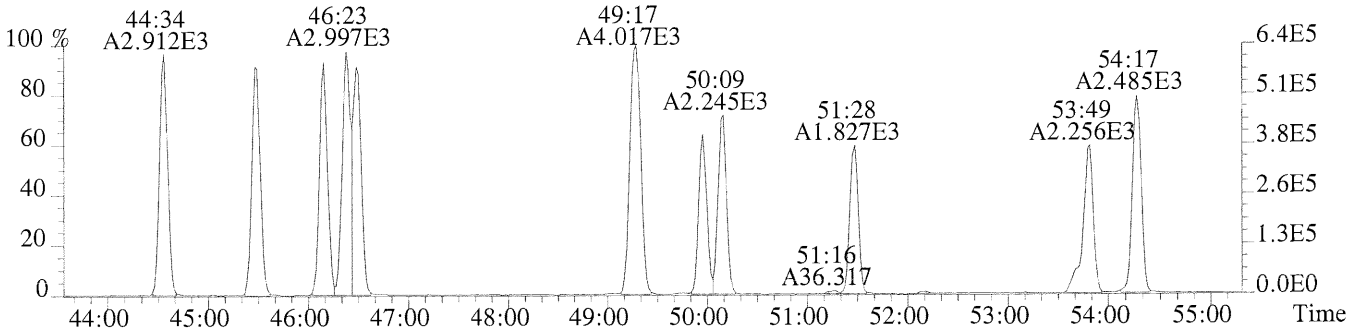
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



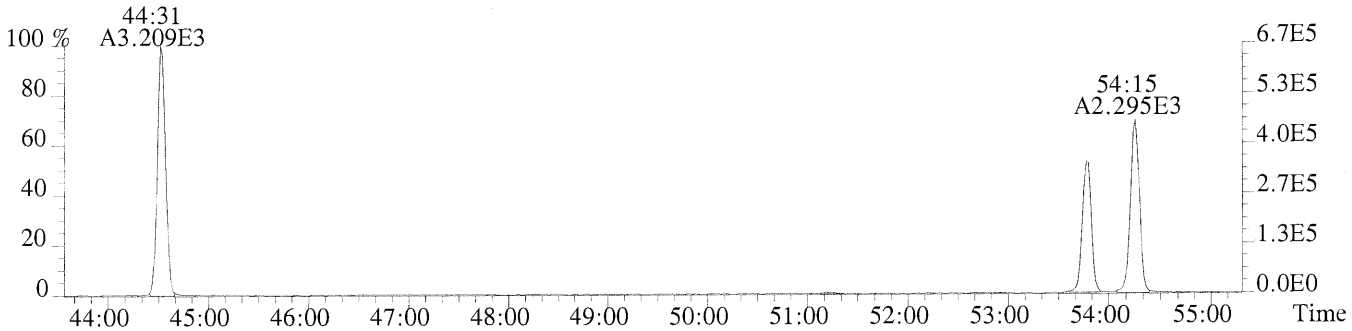
File:U142082 #1-582 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1268.0,1.00%,F,T)



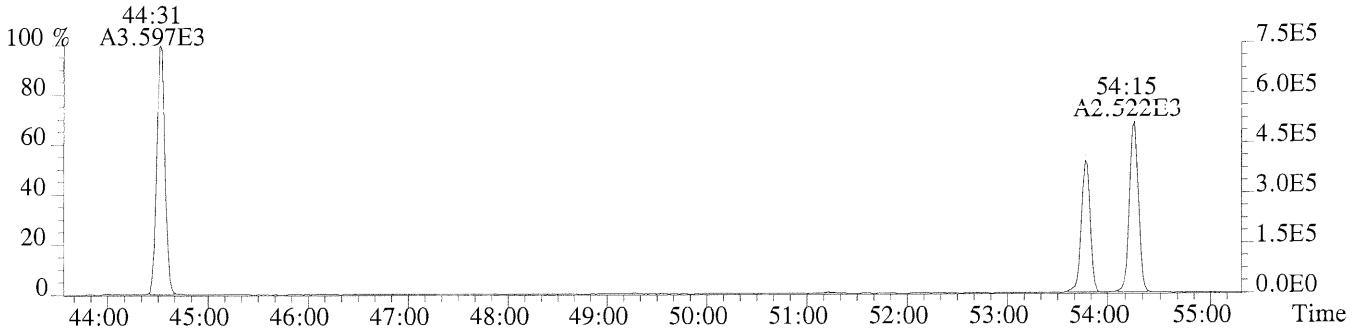
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1684.0,1.00%,F,T)



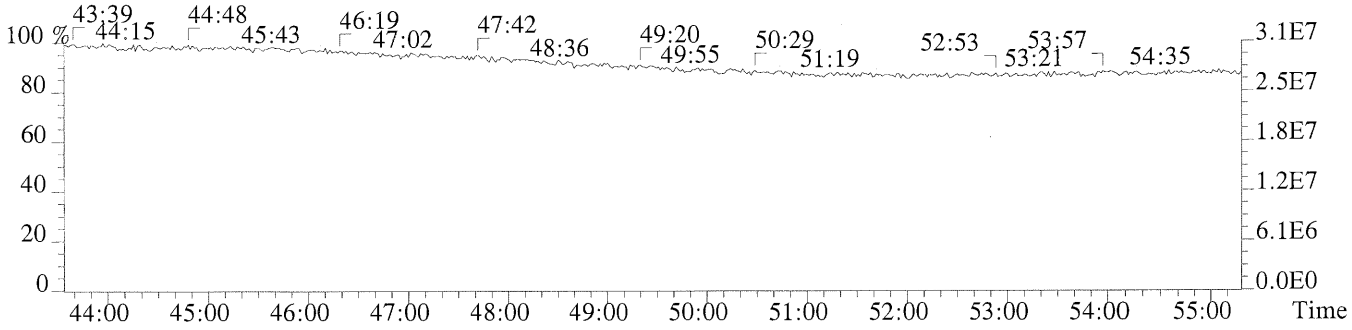
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1296.0,1.00%,F,T)



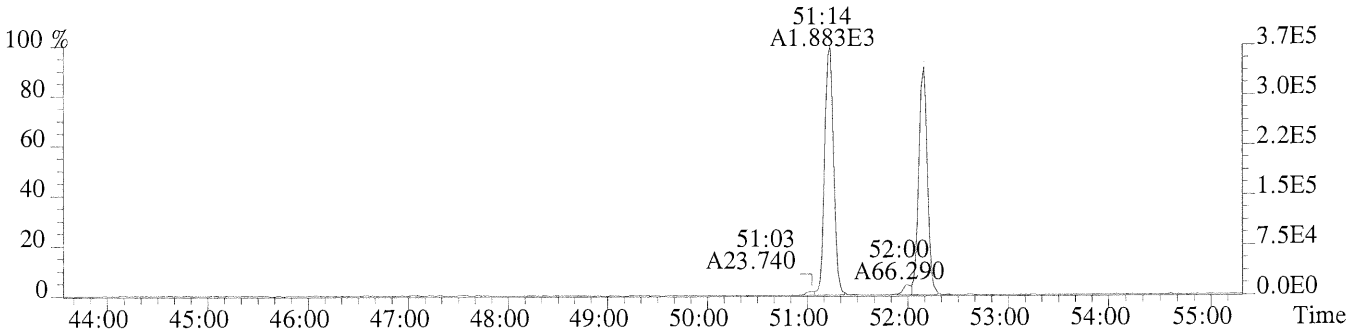
441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1584.0,1.00%,F,T)



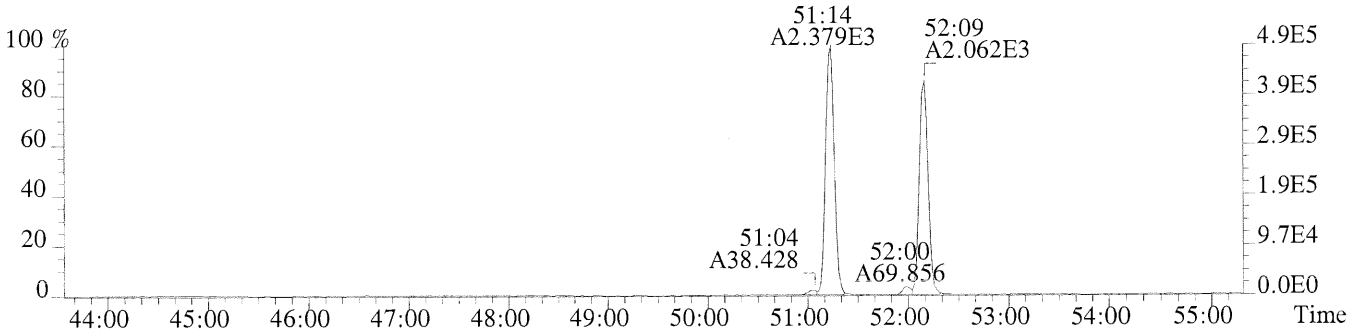
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



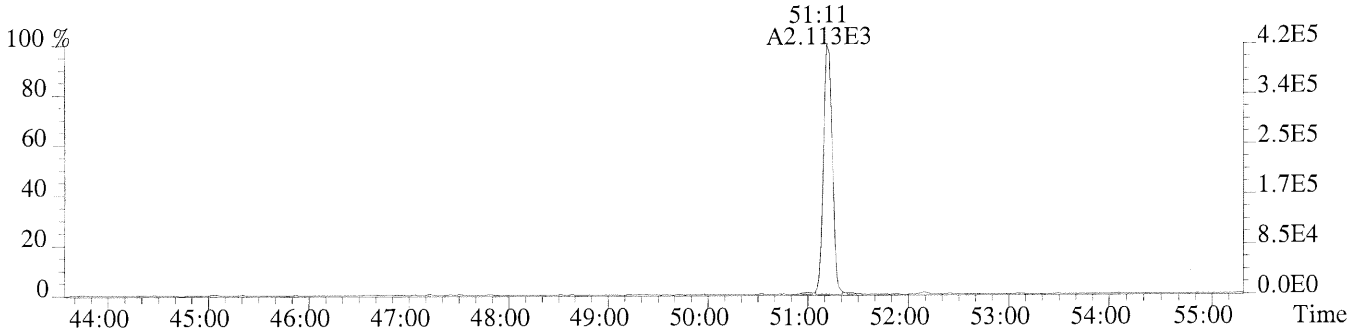
File:U142082 #1-582 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1284.0,1.00%,F,T)



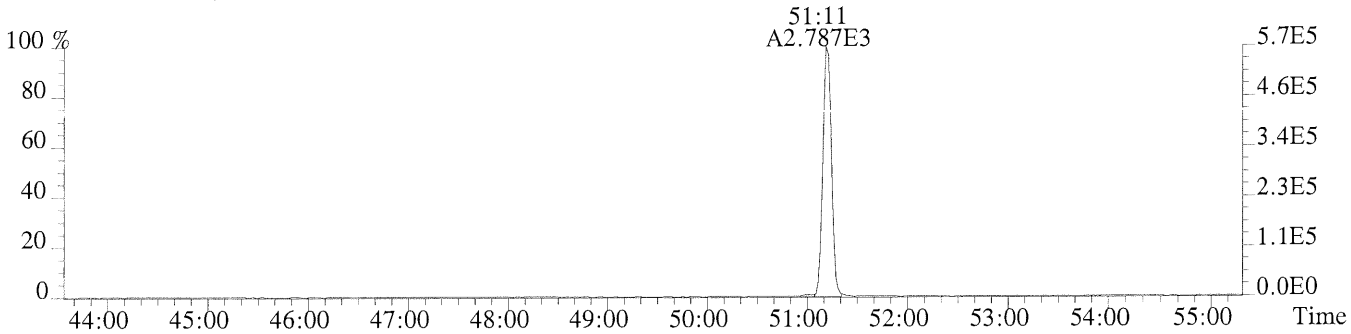
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)



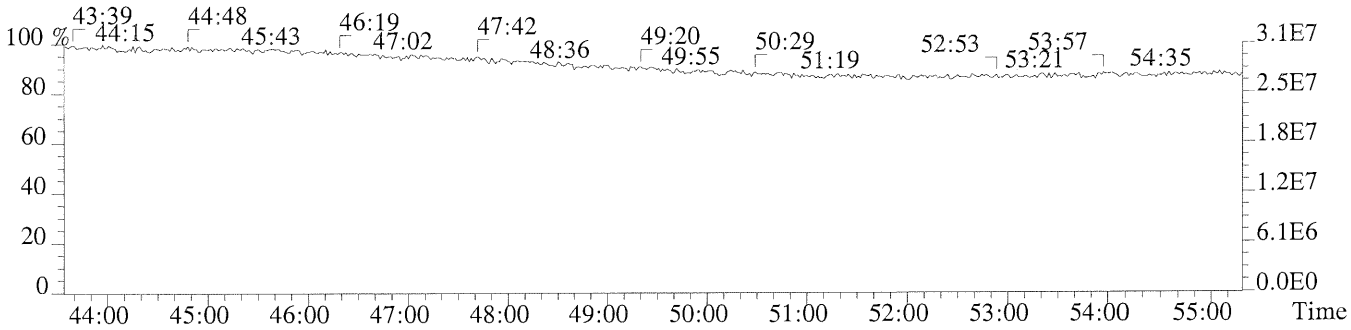
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1444.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1192.0,1.00%,F,T)

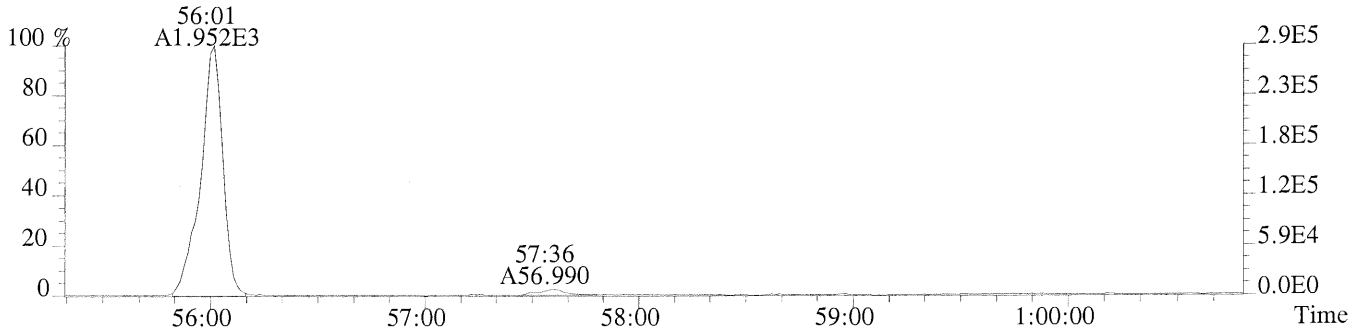


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

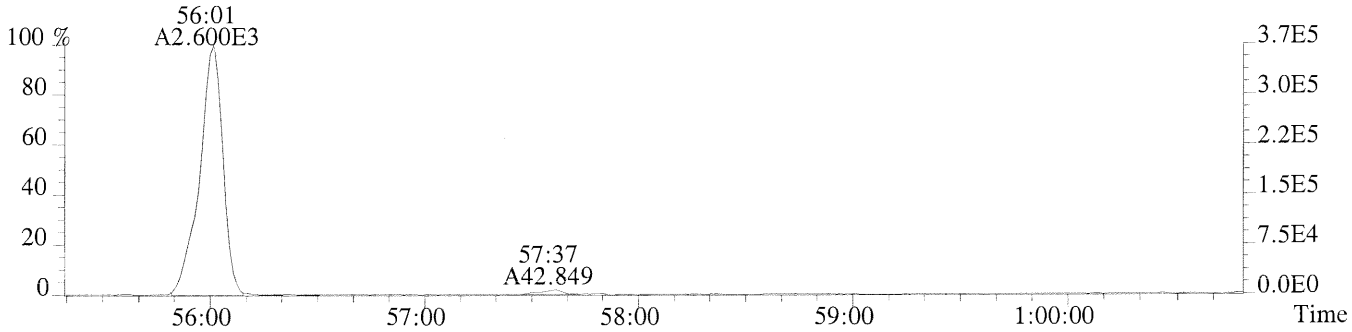


File:U142082 #1-310 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

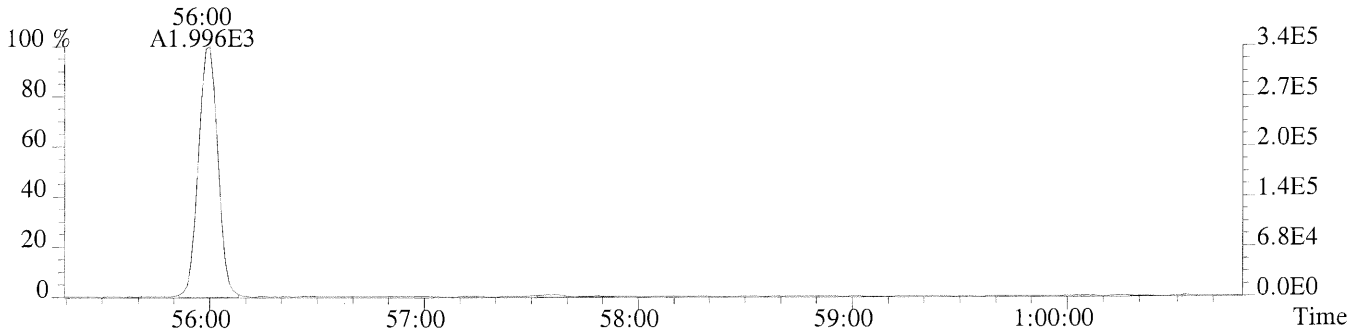
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)



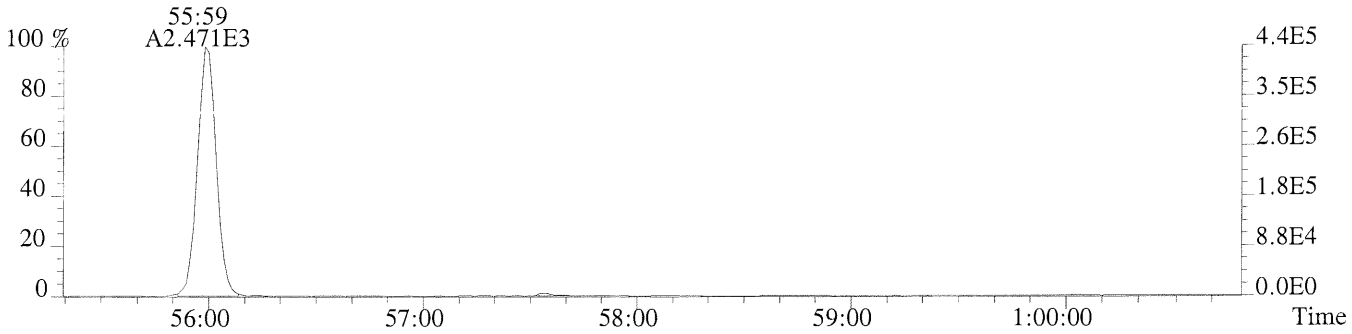
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,928.0,1.00%,F,T)



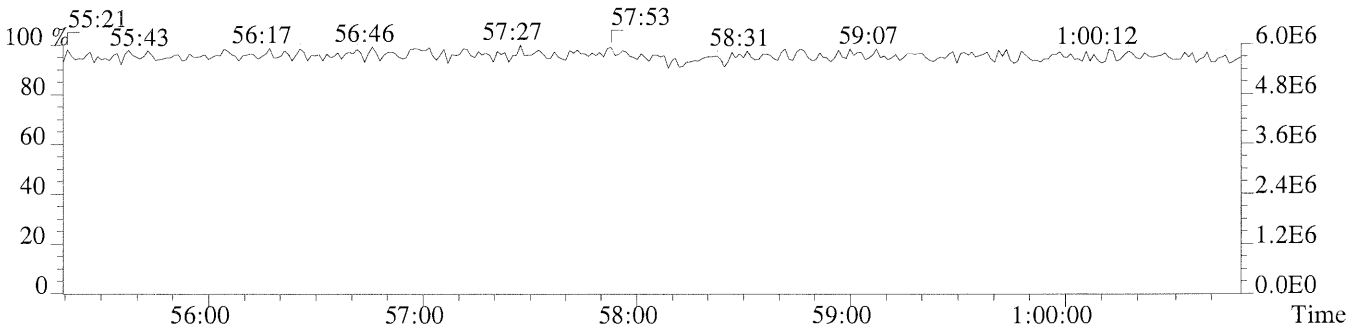
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



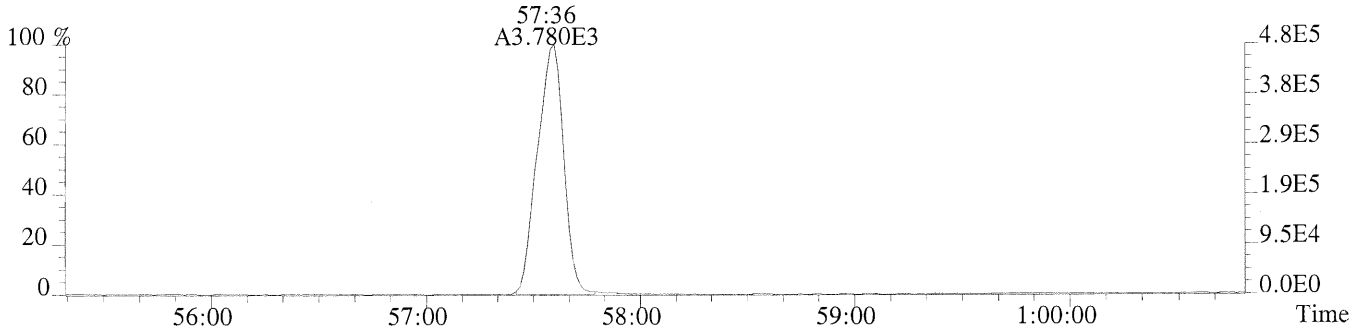
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



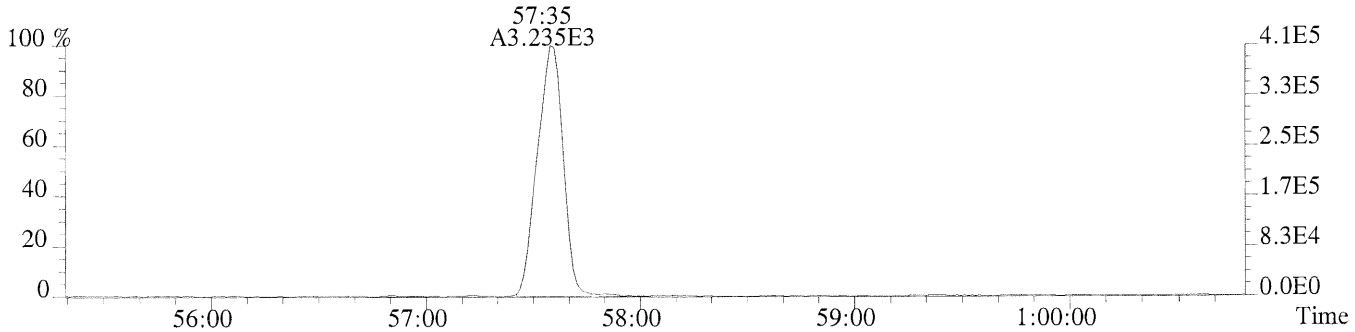
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



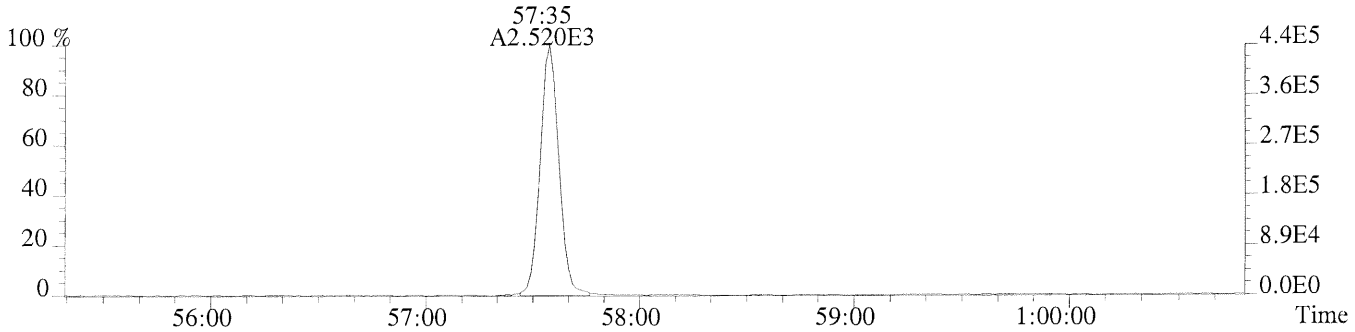
File:U142082 #1-310 Acq:11-NOV-2011 04:31:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1052.0,1.00%,F,T)



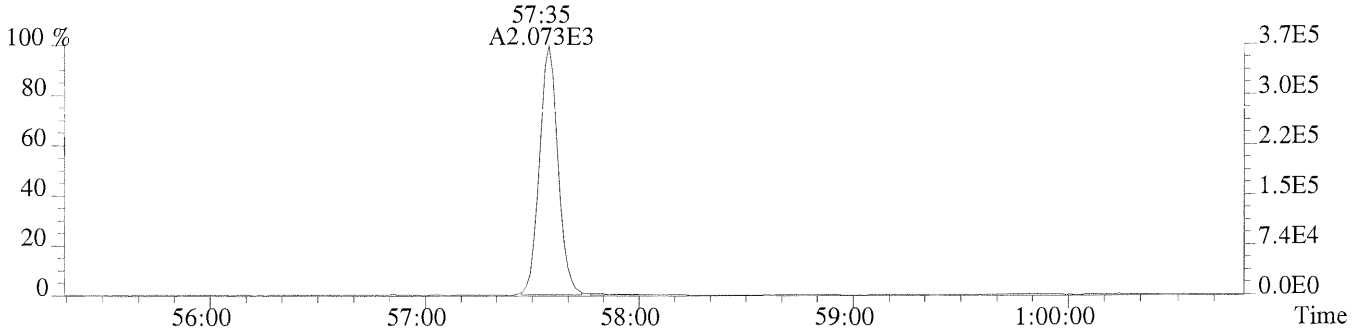
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



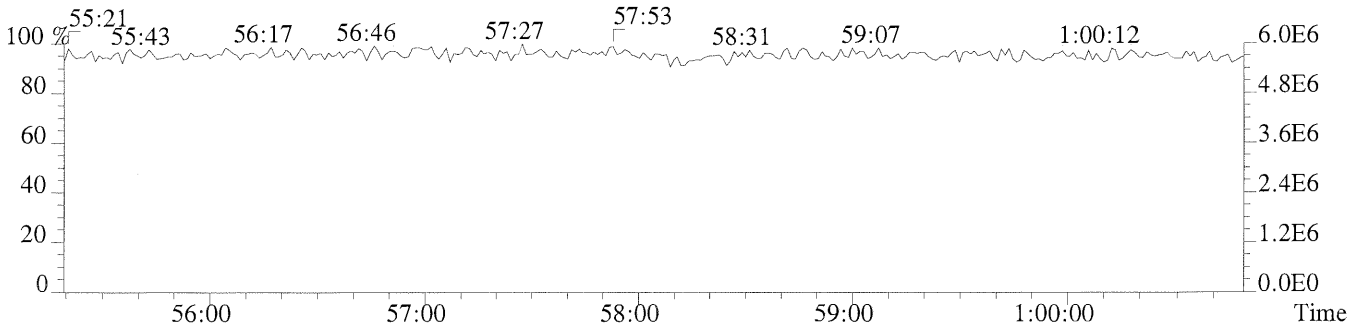
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



FORM 4A
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142083 Analysis Date: 11-NOV-11 Time: 05:48:26

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2-MoCB	M/M+2	3.12	2.66-3.60	49.7	35.0 - 65.0
4-MoCB	M/M+2	3.12	2.66-3.60	51.4	35.0 - 65.0
22'-DiCB	M/M+2	1.56	1.33-1.79	54.5	35.0 - 65.0
44'-DiCB	M/M+2	1.56	1.33-1.79	50.1	35.0 - 65.0
22'6'-TrCB	M/M+2	1.00	0.88-1.20	53.7	35.0 - 65.0
344'-TrCB	M/M+2	1.03	0.88-1.20	50.3	35.0 - 65.0
22'66'-TeCB	M/M+2	0.71	0.65-0.89	54.9	35.0 - 65.0
344'5-TeCB	M/M+2	0.81	0.65-0.89	52.3	35.0 - 65.0
33'44'-TeCB	M/M+2	0.82	0.65-0.89	54.3	35.0 - 65.0
22'466'-PeCB	M+2/M+4	1.60	1.32-1.78	52.0	35.0 - 65.0
2'344'5-PeCB	M+2/M+4	1.68	1.32-1.78	48.6	35.0 - 65.0
23'44'5-PeCB	M+2/M+4	1.56	1.32-1.78	48.1	35.0 - 65.0
2344'5-PeCB	M+2/M+4	1.48	1.32-1.78	51.1	35.0 - 65.0
233'44'-PeCB	M+2/M+4	1.50	1.32-1.78	48.7	35.0 - 65.0
33'44'5-PeCB	M+2/M+4	1.61	1.32-1.78	51.5	35.0 - 65.0
22'44'66'-HxCB	M+2/M+4	1.19	1.05-1.43	51.0	35.0 - 65.0
23'44'55'-HxCB	M+2/M+4	1.30	1.05-1.43	48.5	35.0 - 65.0
233'44'5-HxCB	M+2/M+4	1.23	1.05-1.43	99.1	70.0 -130.0
33'44'55'-HxCB	M+2/M+4	1.26	1.05-1.43	51.3	35.0 - 65.0
22'34'566'-HpCB	M+2/M+4	1.01	0.89-1.21	53.9	35.0 - 65.0
233'44'55'-HpCB	M+2/M+4	1.03	0.89-1.21	56.9	35.0 - 65.0
22'33'55'66'-OcCB	M+2/M+4	0.87	0.76-1.02	55.6	35.0 - 65.0
233'44'55'6-OcCB	M+2/M+4	0.90	0.76-1.02	53.7	35.0 - 65.0
22'33'4'55'66'-NoCB	M+2/M+4	0.80	0.65-0.89	57.1	35.0 - 65.0
22'33'44'55'6-NoCB	M+2/M+4	0.75	0.65-0.89	51.3	35.0 - 65.0
DeCB	M+4/M+6	1.17	0.99-1.33	54.9	35.0 - 65.0

(1) See Table 7, Method 1668A, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

(3) Contract-required concentration range as specified in Table 6, Method 1668A, under VER.

SP1668F4A

FORM 4B
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142083 Analysis Date: 11-NOV-11 Time: 05:48:26

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
LABELED COMPOUNDS					
13C-2-MoCB	M/M+2	3.02	2.66-3.60	100.3	50.0 - 150.0
13C-4-MoCB	M/M+2	3.01	2.66-3.60	100.7	50.0 - 150.0
13C-22'-DiCB	M/M+2	1.56	1.33-1.79	88.7	50.0 - 150.0
13C-44'-DiCB	M/M+2	1.51	1.33-1.79	104.9	50.0 - 150.0
13C-22'6'-TrCB	M/M+2	1.02	0.88-1.20	100.5	50.0 - 150.0
13C-344'-TrCB	M/M+2	1.06	0.88-1.20	94.5	50.0 - 150.0
13C-22'66'-TeCB	M/M+2	0.80	0.65-0.89	74.0	50.0 - 150.0
13C-344'5-TeCB	M/M+2	0.78	0.65-0.89	90.1	50.0 - 150.0
13C-33'44'-TeCB	M/M+2	0.74	0.65-0.89	85.3	50.0 - 150.0
13C-22'466'-PeCB	M+2/M+4	1.54	1.32-1.78	89.6	50.0 - 150.0
13C-2'344'5-PeCB	M+2/M+4	1.51	1.32-1.78	93.0	50.0 - 150.0
13C-23'44'5-PeCB	M+2/M+4	1.55	1.32-1.78	92.6	50.0 - 150.0
13C-2344'5-PeCB	M+2/M+4	1.52	1.32-1.78	85.7	50.0 - 150.0
13C-233'44'-PeCB	M+2/M+4	1.52	1.32-1.78	87.6	50.0 - 150.0
13C-33'44'5-PeCB	M+2/M+4	1.53	1.32-1.78	86.4	50.0 - 150.0
13C-22'44'66'-HxCB	M+2/M+4	1.24	1.05-1.43	88.9	50.0 - 150.0
13C-23'44'55'-HxCB	M+2/M+4	1.25	1.05-1.43	83.1	50.0 - 150.0
13C-233'44'5'-HxCB	M+2/M+4	1.27	1.05-1.43	166.1	100.0 - 300.0
13C-33'44'55'-HxCB	M+2/M+4	1.26	1.05-1.43	79.5	50.0 - 150.0
13C-22'34'566'-HpCB	M+2/M+4	1.04	0.89-1.21	126.5	50.0 - 150.0
13C-233'44'55'-HpCB	M+2/M+4	1.02	0.89-1.21	112.0	50.0 - 150.0
13C-22'33'55'66'-OcCB	M+2/M+4	0.93	0.76-1.02	105.3	50.0 - 150.0
13C-233'44'55'6-OcCB	M+2/M+4	0.92	0.76-1.02	100.6	50.0 - 150.0
13C-22'33'4'55'66'-NoCB	M+2/M+4	0.78	0.65-0.89	97.2	50.0 - 150.0
13C-22'33'44'55'6-NoCB	M+2/M+4	0.79	0.65-0.89	112.1	50.0 - 150.0
13C-DeCB	M+4/M+6	1.19	0.99-1.33	90.1	50.0 - 150.0
CLEANUP STANDARDS					
13C-244'-TrCB	M/M+2	1.04	0.88-1.20	96.0	50.0 - 150.0
13C-233'55'-PeCB	M+2/M+4	1.55	1.32-1.78	93.7	50.0 - 150.0
13C-22'33'55'6-HpCB	M+2/M+4	1.05	0.89-1.21	81.5	50.0 - 150.0

(1) See Table 7, Method 1668A, for m/z specifications.
(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.
(3) Contract-required concentration range, as specified in Table 6, Method 1668A, under VER.

SP1668F4B

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
CCAL CS3

Run #7 Filename U142083 Samp: 1 Inj: 1 Acquired: 11-NOV-11 05:48:26
Processed: 17-NOV-11 11:08:57 Sample ID: CCAL CS3

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1	1	2-MoCB	13:19	9.531e+03	3.054e+03	3.12	yes	no
2	3	4-MoCB	15:35	9.199e+03	2.947e+03	3.12	yes	no
3	4	22'-DiCB	15:49	5.091e+03	3.257e+03	1.56	yes	no
4	15	44'-DiCB	21:52	5.814e+03	3.726e+03	1.56	yes	no
5	19	22'6'-TrCB	19:01	3.314e+03	3.330e+03	1.00	yes	no
6	37	344'-TrCB	28:59	4.621e+03	4.500e+03	1.03	yes	no
7	54	22'66'-TeCB	22:09	2.969e+03	4.188e+03	0.71	yes	no
8	81	344'5-TeCB	35:46	3.174e+03	3.940e+03	0.81	yes	no
9	77	33'44'-TeCB	36:20	3.029e+03	3.712e+03	0.82	yes	no
10	104	22'466'-PeCB	27:44	5.310e+03	3.312e+03	1.60	yes	no
11	123	2'344'5-PeCB	38:20	3.817e+03	2.279e+03	1.68	yes	no
12	118	23'44'5-PeCB	38:39	3.753e+03	2.401e+03	1.56	yes	no
13	114	2344'5-PeCB	39:11	3.586e+03	2.419e+03	1.48	yes	no
14	105	233'44'-PeCB	39:50	3.383e+03	2.250e+03	1.50	yes	no
15	126	33'44'5-PeCB	42:56	3.043e+03	1.893e+03	1.61	yes	no
16	155	22'44'66'-HxCB	33:26	4.412e+03	3.718e+03	1.19	yes	no
17	167	23'44'55'-HxCB	44:48	2.243e+03	1.726e+03	1.30	yes	no
18	156/7	233'44'5-HxCB	45:58	4.143e+03	3.358e+03	1.23	yes	no
19	169	33'44'55'-HxCB	49:12	1.791e+03	1.420e+03	1.26	yes	no
20	188	22'34'566'-HpCB	39:10	3.710e+03	3.685e+03	1.01	yes	no
21	189	233'44'55'-HpCB	51:43	1.695e+03	1.646e+03	1.03	yes	no
22	202	22'33'55'66'-OcCB	44:34	1.968e+03	2.273e+03	0.87	yes	no
23	205	233'44'55'6-OcCB	54:17	1.437e+03	1.603e+03	0.90	yes	no
24	208	22'33'4'55'66'-NoCB	51:14	1.347e+03	1.690e+03	0.80	yes	no
25	206	22'33'44'55'6-NoCB	56:01	1.065e+03	1.418e+03	0.75	yes	no
26	209	DeCB	57:36	1.732e+03	1.475e+03	1.17	yes	no
27	1L	13C-2-MoCB	13:18	1.776e+04	5.891e+03	3.02	yes	no
28	3L	13C-4-MoCB	15:34	1.714e+04	5.687e+03	3.01	yes	no
29	4L	13C-22'-DiCB	15:48	8.383e+03	5.384e+03	1.56	yes	no
30	15L	13C-44'-DiCB	21:51	1.173e+04	7.771e+03	1.51	yes	no
31	19L	13C-22'6'-TrCB	18:60	6.231e+03	6.120e+03	1.02	yes	no
32	37L	13C-344'-TrCB	28:57	8.582e+03	8.079e+03	1.06	yes	no
33	54L	13C-22'66'-TeCB	22:07	5.760e+03	7.240e+03	0.80	yes	no
34	81L	13C-344'5-TeCB	35:44	5.763e+03	7.387e+03	0.78	yes	no
35	77L	13C-33'44'-TeCB	36:19	5.323e+03	7.159e+03	0.74	yes	no
36	104L	13C-22'466'-PeCB	27:42	9.764e+03	6.344e+03	1.54	yes	no
37	123L	13C-2'344'5-PeCB	38:18	7.420e+03	4.902e+03	1.51	yes	no
38	118L	13C-23'44'5-PeCB	38:38	7.801e+03	5.029e+03	1.55	yes	no
39	114L	13C-2344'5-PeCB	39:10	7.155e+03	4.700e+03	1.52	yes	no
40	105L	13C-233'44'-PeCB	39:49	6.898e+03	4.533e+03	1.52	yes	no
41	126L	13C-33'44'5-PeCB	42:55	6.039e+03	3.947e+03	1.53	yes	no
42	155L	13C-22'44'66'-HxCB	33:25	8.920e+03	7.214e+03	1.24	yes	no
43	167L	13C-23'44'55'-HxCB	44:47	4.509e+03	3.614e+03	1.25	yes	no
44	156/7	13C-233'44'5'-HxCB	45:56	8.413e+03	6.636e+03	1.27	yes	no
45	169L	13C-33'44'55'-HxCB	49:11	3.521e+03	2.795e+03	1.26	yes	no
46	188L	13C-22'34'566'-HpCB	39:09	7.057e+03	6.803e+03	1.04	yes	no
47	189L	13C-233'44'55'-HpCB	51:42	3.443e+03	3.361e+03	1.02	yes	no
48	202L	13C-22'33'55'66'-OcCB	44:31	4.254e+03	4.575e+03	0.93	yes	no
49	205L	13C-233'44'55'6-OcCB	54:15	3.057e+03	3.314e+03	0.92	yes	no
50	208L	13C-22'33'4'55'66'-NoCB	51:11	2.649e+03	3.392e+03	0.78	yes	no
51	206L	13C-22'33'44'55'6-NoCB	55:59	2.301e+03	2.896e+03	0.79	yes	no
52	209L	13C-DeCB	57:35	3.553e+03	2.987e+03	1.19	yes	no

53	28L	13C-244'-TrCB	24:55	1.048e+04	1.004e+04	1.04	yes	no
54	111L	13C-233'55'-PeCB	36:20	9.071e+03	5.865e+03	1.55	yes	no
55	178L	13C-22'33'55'6-HpCB	42:12	4.413e+03	4.195e+03	1.05	yes	no
56	9L	13C-2,5-DiCB	17:50	1.164e+04	7.682e+03	1.52	yes	no
57	52L	13C-22'55'-TeCB	26:44	6.718e+03	8.697e+03	0.77	yes	no
58	101L	13C-22'4'55'-PeCB	33:39	7.803e+03	5.070e+03	1.54	yes	no
59	138L	13C-22'3'44'5'-HxCB	41:45	6.186e+03	4.896e+03	1.26	yes	no
60	194L	13C-22'33'44'55'-OcCB	53:46	2.199e+03	2.448e+03	0.90	yes	no

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
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Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
CCAL CS3

Run #7 Filename U142083#1 Samp: 1 Inj: 1 Acquired: 11-NOV-11 05:48:26

Processed: 17-NOV-11 11:08:57 LAB. ID: CCAL CS3

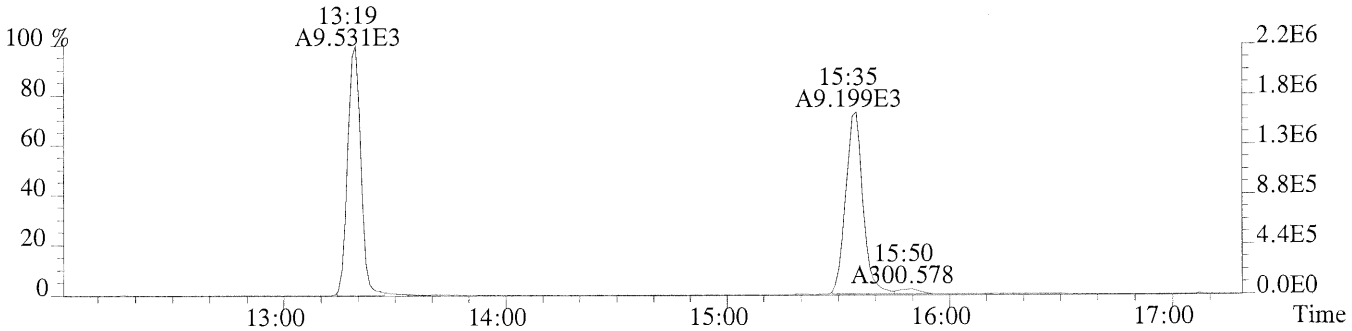
	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	2.19e+06	2.31e+03	9.5e+02	6.95e+05	1.82e+03	3.8e+02
2	4-MoCB	1.60e+06	2.31e+03	6.9e+02	5.06e+05	1.82e+03	2.8e+02
3	22'-DiCB	9.29e+05	2.29e+03	4.1e+02	6.07e+05	2.16e+04	2.8e+01
4	44'-DiCB	9.07e+05	4.75e+03	1.9e+02	5.91e+05	3.49e+04	1.7e+01
5	22'6'-TrCB	6.11e+05	5.55e+03	1.1e+02	6.08e+05	3.10e+03	2.0e+02
6	344'-TrCB	6.37e+05	1.53e+03	4.2e+02	6.28e+05	1.72e+03	3.6e+02
7	22'66'-TeCB	5.06e+05	2.34e+03	2.2e+02	7.39e+05	2.79e+03	2.6e+02
8	344'5-TeCB	4.81e+05	1.62e+03	3.0e+02	5.95e+05	1.78e+03	3.3e+02
9	33'44'-TeCB	4.39e+05	1.62e+03	2.7e+02	5.61e+05	1.78e+03	3.2e+02
10	22'466'-PeCB	8.28e+05	9.84e+02	8.4e+02	5.12e+05	1.78e+03	2.9e+02
11	2'344'5-PeCB	6.28e+05	6.90e+03	9.1e+01	3.84e+05	4.60e+03	8.3e+01
12	23'44'5-PeCB	6.21e+05	6.90e+03	9.0e+01	3.97e+05	4.60e+03	8.6e+01
13	2344'5-PeCB	5.87e+05	6.90e+03	8.5e+01	4.03e+05	4.60e+03	8.7e+01
14	233'44'-PeCB	5.56e+05	6.90e+03	8.1e+01	3.72e+05	4.60e+03	8.1e+01
15	33'44'5-PeCB	4.73e+05	6.90e+03	6.9e+01	2.81e+05	4.60e+03	6.1e+01
16	22'44'66'-HxCB	7.28e+05	1.12e+03	6.5e+02	5.94e+05	1.93e+03	3.1e+02
17	23'44'55'-HxCB	4.49e+05	1.85e+03	2.4e+02	3.60e+05	1.64e+03	2.2e+02
18	233'44'5-HxCB	6.26e+05	1.85e+03	3.4e+02	5.00e+05	1.64e+03	3.0e+02
19	33'44'55'-HxCB	3.32e+05	1.85e+03	1.8e+02	2.71e+05	1.64e+03	1.6e+02
20	22'34'566'-HpCB	6.34e+05	1.20e+03	5.3e+02	6.19e+05	6.32e+02	9.8e+02
21	233'44'55'-HpCB	3.35e+05	1.52e+03	2.2e+02	3.44e+05	7.12e+02	4.8e+02
22	22'33'55'66'-OcCB	3.90e+05	9.48e+02	4.1e+02	4.61e+05	1.46e+03	3.2e+02
23	233'44'55'6-OcCB	2.96e+05	9.48e+02	3.1e+02	3.24e+05	1.46e+03	2.2e+02
24	22'33'4'55'66'-NoCB	2.62e+05	1.74e+03	1.5e+02	3.37e+05	1.38e+03	2.4e+02
25	22'33'44'55'6-NoCB	1.84e+05	8.32e+02	2.2e+02	2.66e+05	9.96e+02	2.7e+02
26	DeCB	3.05e+05	8.88e+02	3.4e+02	2.59e+05	7.68e+02	3.4e+02
27	13C-2-MoCB	4.16e+06	2.60e+03	1.6e+03	1.37e+06	6.83e+03	2.0e+02
28	13C-4-MoCB	3.01e+06	2.60e+03	1.2e+03	1.01e+06	6.83e+03	1.5e+02
29	13C-22'-DiCB	1.56e+06	1.48e+03	1.1e+03	1.02e+06	1.84e+03	5.5e+02
30	13C-44'-DiCB	1.82e+06	2.69e+03	6.8e+02	1.20e+06	3.27e+03	3.7e+02
31	13C-22'6'-TrCB	1.16e+06	1.84e+04	6.3e+01	1.14e+06	7.66e+03	1.5e+02
32	13C-344'-TrCB	1.20e+06	1.74e+04	6.9e+01	1.14e+06	1.12e+04	1.0e+02
33	13C-22'66'-TeCB	9.92e+05	8.48e+03	1.2e+02	1.25e+06	3.15e+03	4.0e+02
34	13C-344'5-TeCB	8.74e+05	4.99e+03	1.8e+02	1.11e+06	1.85e+03	6.0e+02
35	13C-33'44'-TeCB	7.97e+05	4.99e+03	1.6e+02	1.01e+06	1.85e+03	5.5e+02
36	13C-22'466'-PeCB	1.54e+06	1.97e+03	7.8e+02	9.80e+05	1.64e+03	6.0e+02
37	13C-2'344'5-PeCB	1.23e+06	5.71e+03	2.1e+02	7.84e+05	1.18e+03	6.7e+02
38	13C-23'44'5-PeCB	1.26e+06	5.71e+03	2.2e+02	8.06e+05	1.18e+03	6.9e+02
39	13C-2344'5-PeCB	1.18e+06	5.71e+03	2.1e+02	7.49e+05	1.18e+03	6.4e+02
40	13C-233'44'-PeCB	1.11e+06	5.71e+03	2.0e+02	7.02e+05	1.18e+03	6.0e+02
41	13C-33'44'5-PeCB	8.94e+05	5.71e+03	1.6e+02	5.70e+05	1.18e+03	4.9e+02
42	13C-22'44'66'-HxCB	1.47e+06	1.08e+03	1.4e+03	1.18e+06	1.62e+03	7.3e+02
43	13C-23'44'55'-HxCB	9.08e+05	1.46e+03	6.2e+02	7.16e+05	1.62e+03	4.4e+02
44	13C-233'44'5'-HxCB	1.30e+06	1.46e+03	8.9e+02	9.88e+05	1.62e+03	6.1e+02
45	13C-33'44'55'-HxCB	6.47e+05	1.46e+03	4.4e+02	5.14e+05	1.62e+03	3.2e+02
46	13C-22'34'566'-HpCB	1.17e+06	1.67e+03	7.0e+02	1.12e+06	7.92e+02	1.4e+03
47	13C-233'44'55'-HpCB	6.86e+05	1.91e+03	3.6e+02	6.58e+05	1.32e+03	5.0e+02
48	13C-22'33'55'66'-OcCB	8.67e+05	1.00e+03	8.7e+02	9.46e+05	1.54e+03	6.2e+02
49	13C-233'44'55'6-OcCB	6.05e+05	1.00e+03	6.1e+02	6.66e+05	1.54e+03	4.3e+02

Run #7 Filename U142083#1 Samp: 1 Acquired: 11-NOV-11 05:48:26

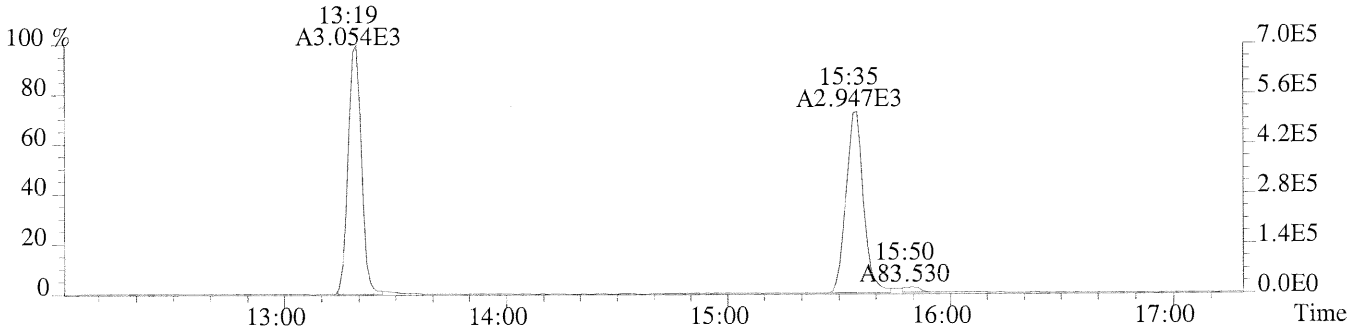
50	13C-22'33'4'55'66'-NoCB	5.39e+05	1.22e+03	4.4e+02	6.68e+05	9.32e+02	7.2e+02
51	13C-22'33'44'55'6-NoCB	4.00e+05	7.08e+02	5.6e+02	5.14e+05	9.16e+02	5.6e+02
52	13C-DeCB	6.25e+05	8.04e+02	7.8e+02	5.24e+05	9.84e+02	5.3e+02
53	13C-244'-TrCB	1.50e+06	1.74e+04	8.6e+01	1.45e+06	1.12e+04	1.3e+02
54	13C-233'55'-PeCB	1.49e+06	2.66e+03	5.6e+02	9.83e+05	2.02e+03	4.9e+02
55	13C-22'33'55'6-HpCB	7.33e+05	1.67e+03	4.4e+02	6.88e+05	7.92e+02	8.7e+02
56	13C-2,5-DiCB	2.14e+06	2.69e+03	7.9e+02	1.43e+06	3.27e+03	4.4e+02
57	13C-22'55'-TeCB	1.06e+06	6.81e+03	1.6e+02	1.33e+06	2.16e+03	6.2e+02
58	13C-22'4'55'-PeCB	1.26e+06	2.66e+03	4.8e+02	8.24e+05	2.02e+03	4.1e+02
59	13C-22'3'44'5'-HxCB	1.04e+06	8.92e+02	1.2e+03	8.26e+05	1.80e+03	4.6e+02
60	13C-22'33'44'55'-OcCB	4.30e+05	1.00e+03	4.3e+02	4.77e+05	1.54e+03	3.1e+02

File:U142083 #1-341 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

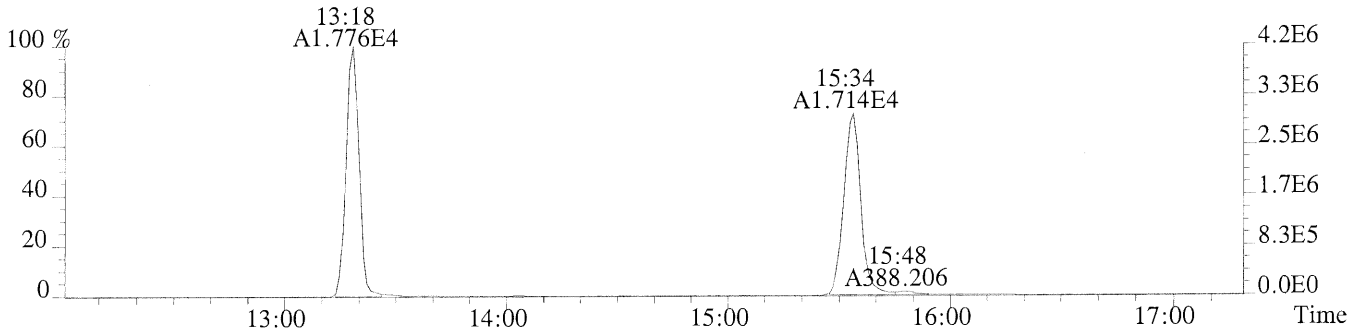
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2308.0,1.00%,F,T)



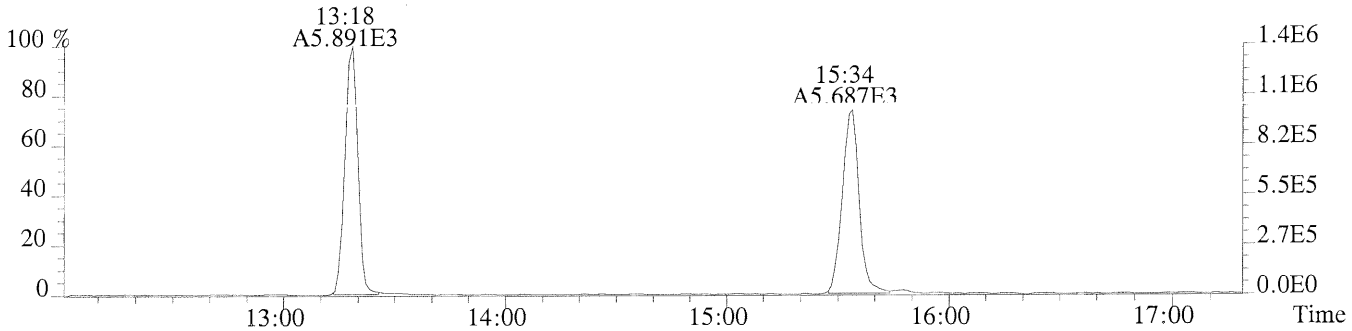
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1820.0,1.00%,F,T)



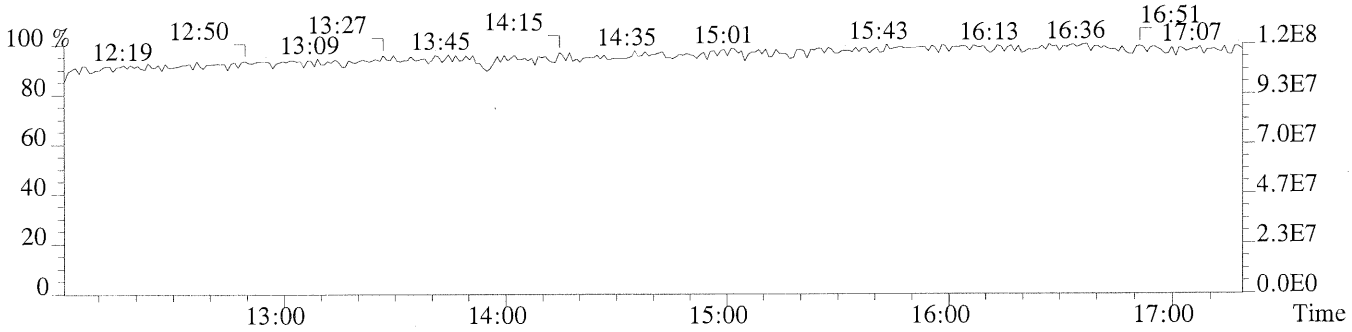
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2604.0,1.00%,F,T)



202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6828.0,1.00%,F,T)

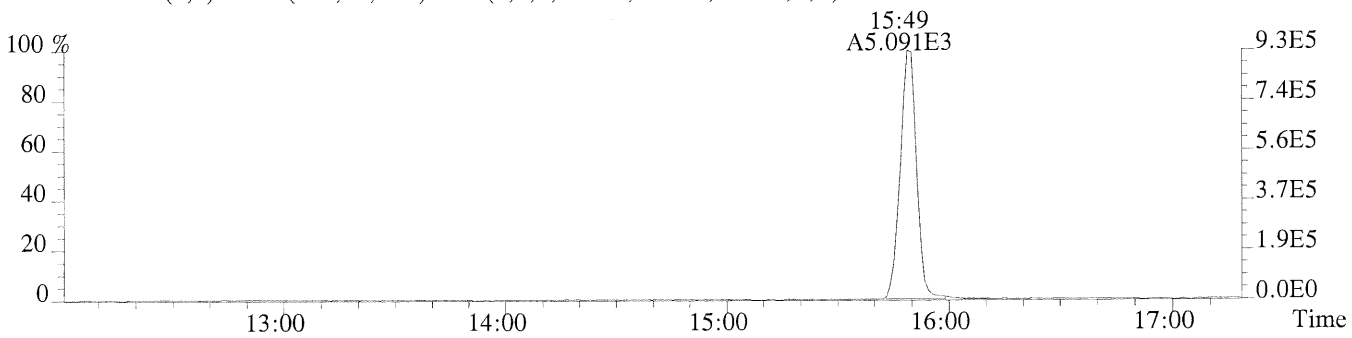


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

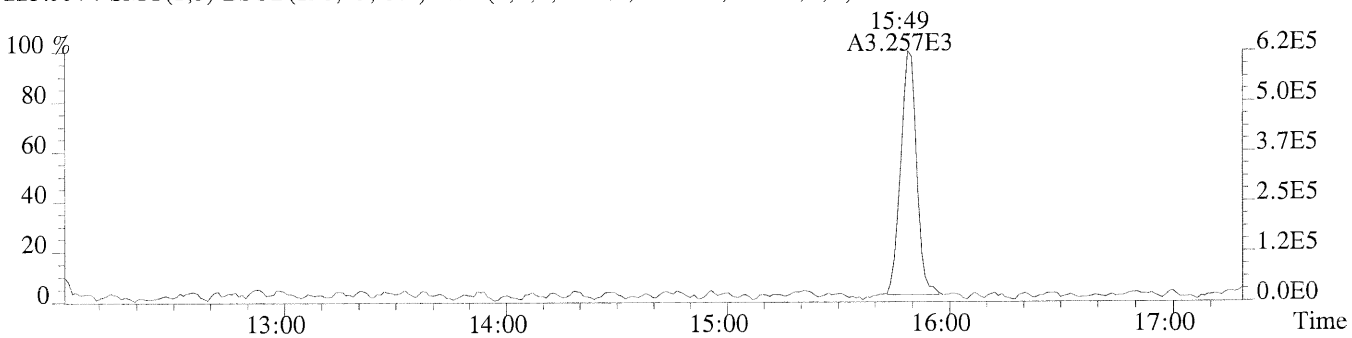


File:U142083 #1-341 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

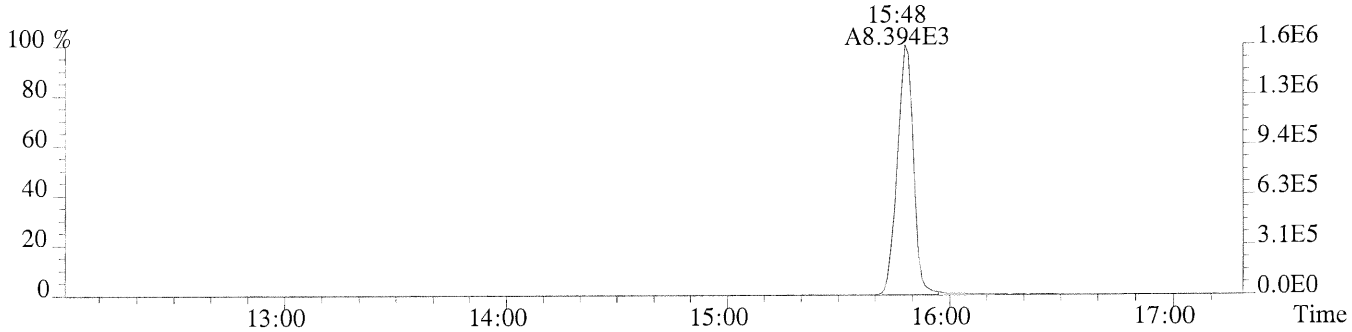
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2292.0,1.00%,F,T)



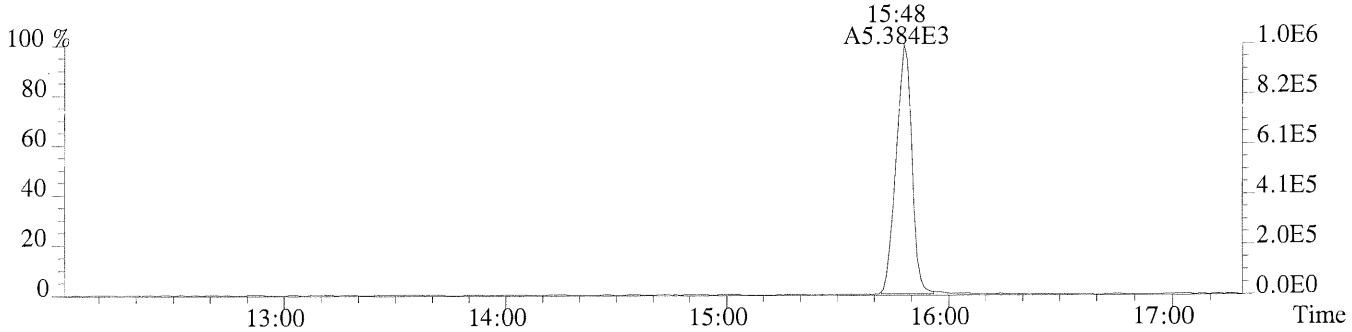
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,21592.0,1.00%,F,T)



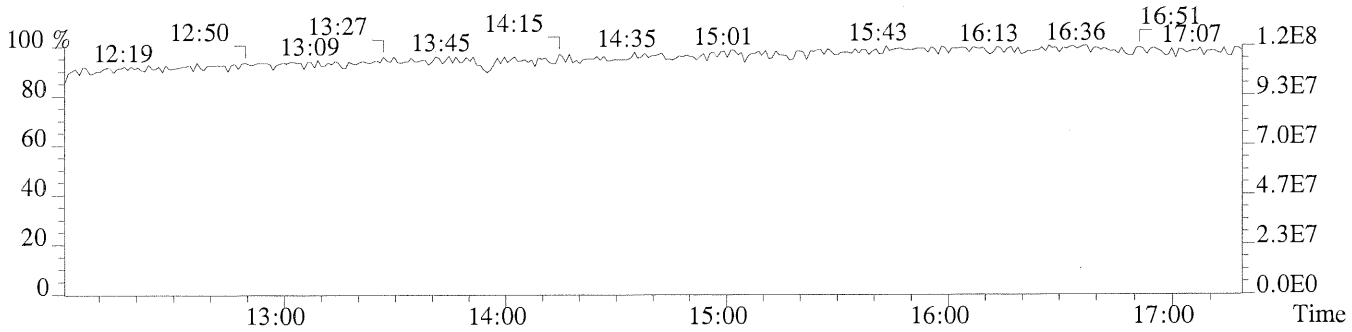
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1476.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1844.0,1.00%,F,T)

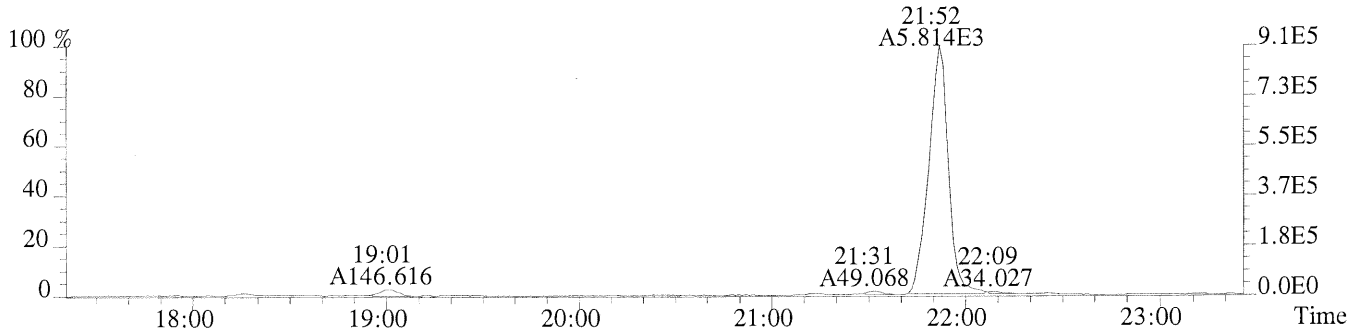


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

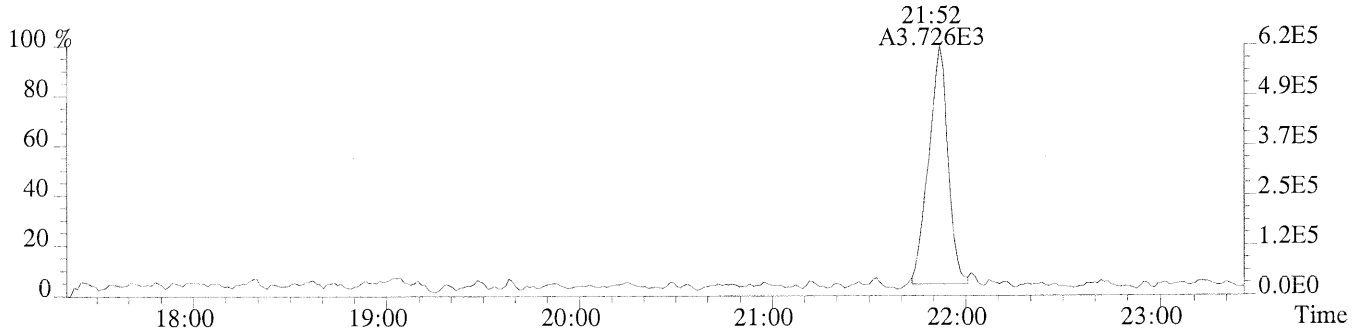


File:U142083 #1-336 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

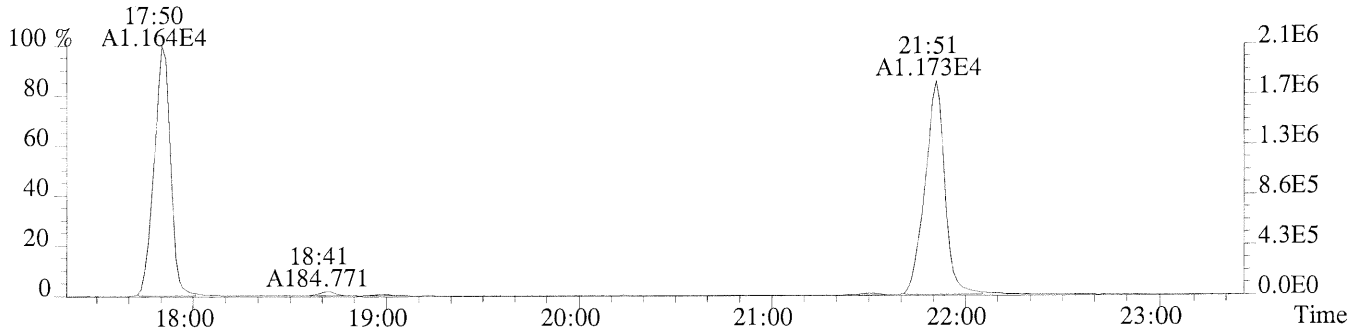
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4752.0,1.00%,F,T)



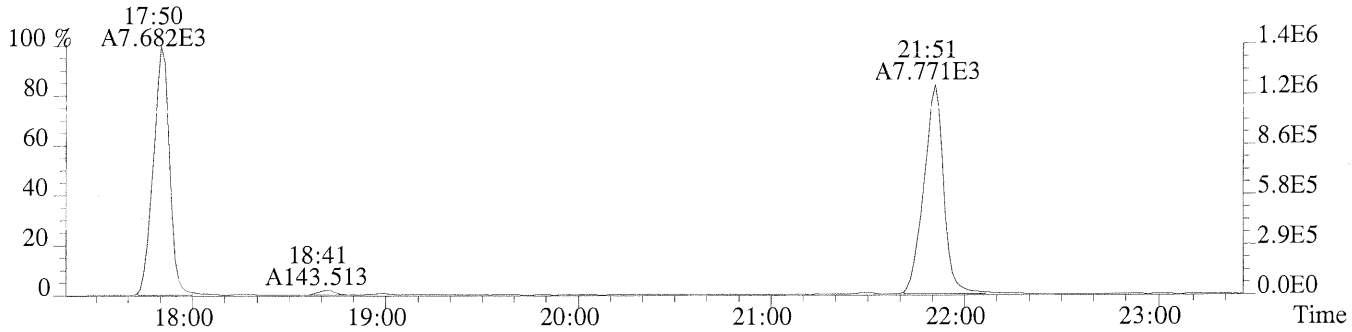
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,34864.0,1.00%,F,T)



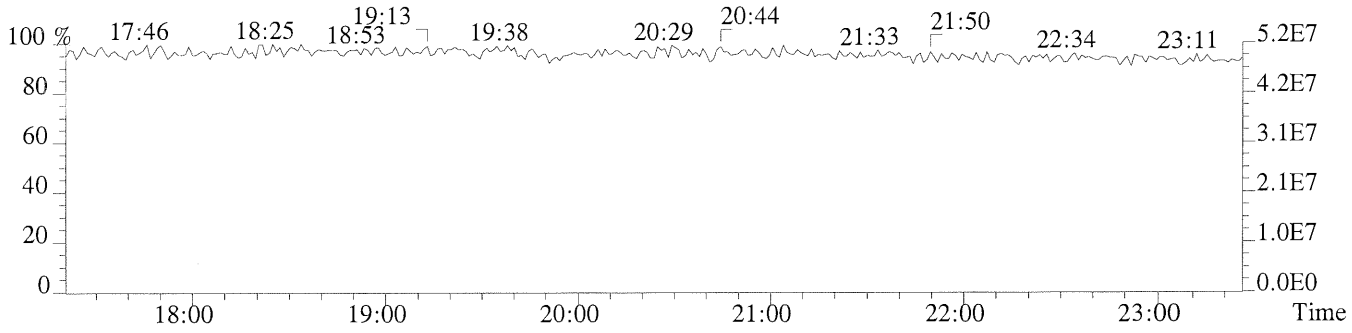
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2692.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3268.0,1.00%,F,T)

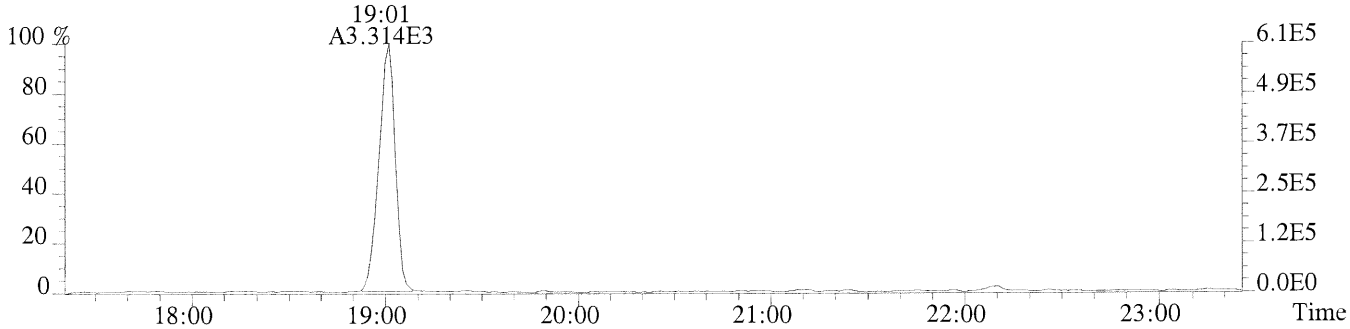


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

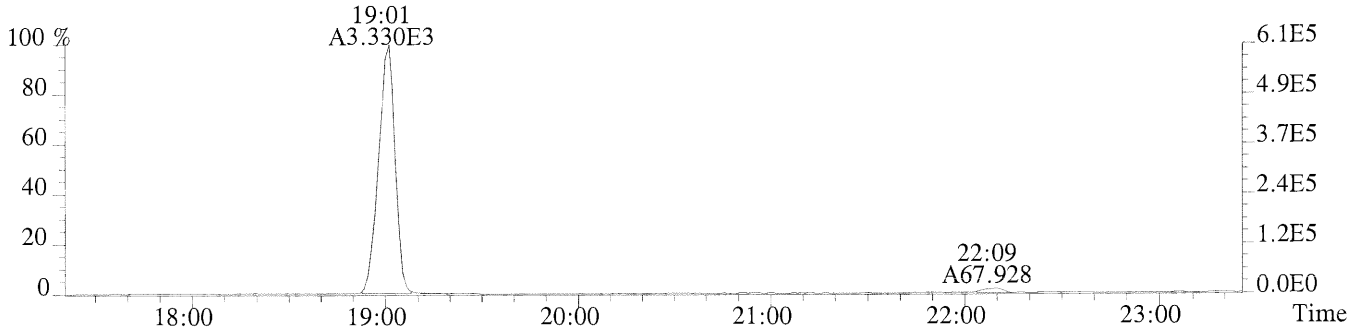


File:U142083 #1-336 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

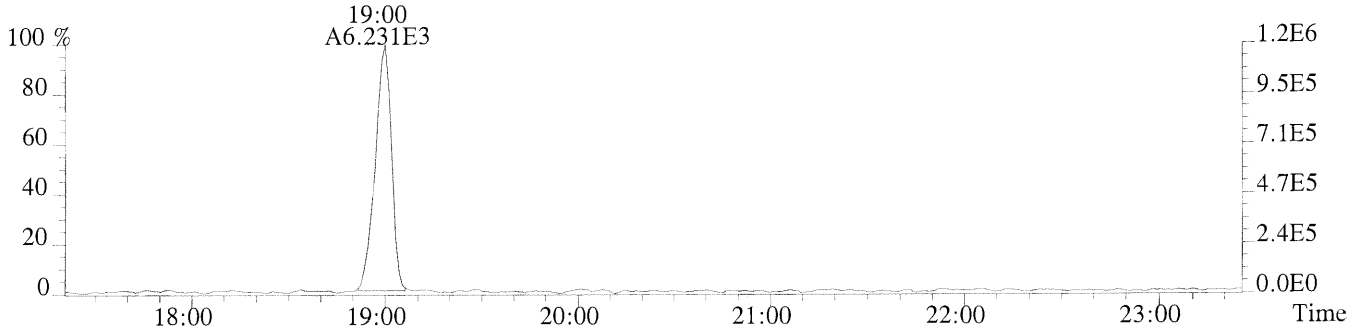
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5552.0,1.00%,F,T)



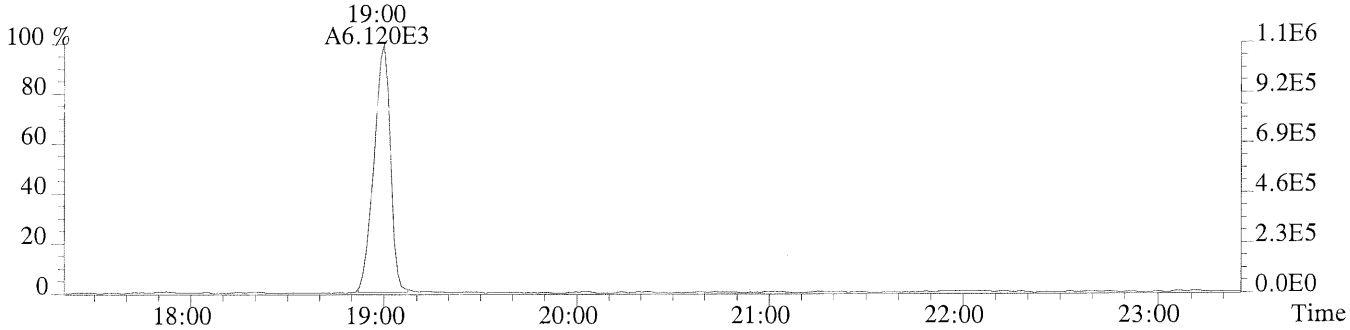
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3100.0,1.00%,F,T)



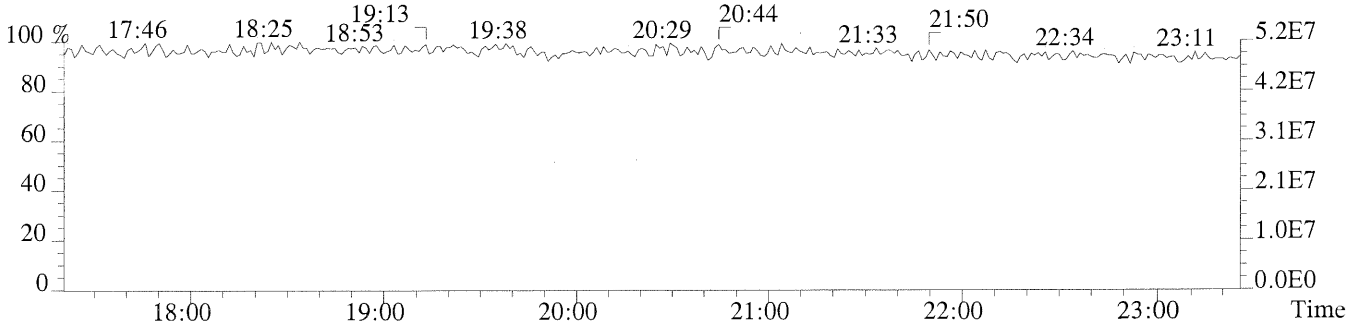
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18404.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7660.0,1.00%,F,T)

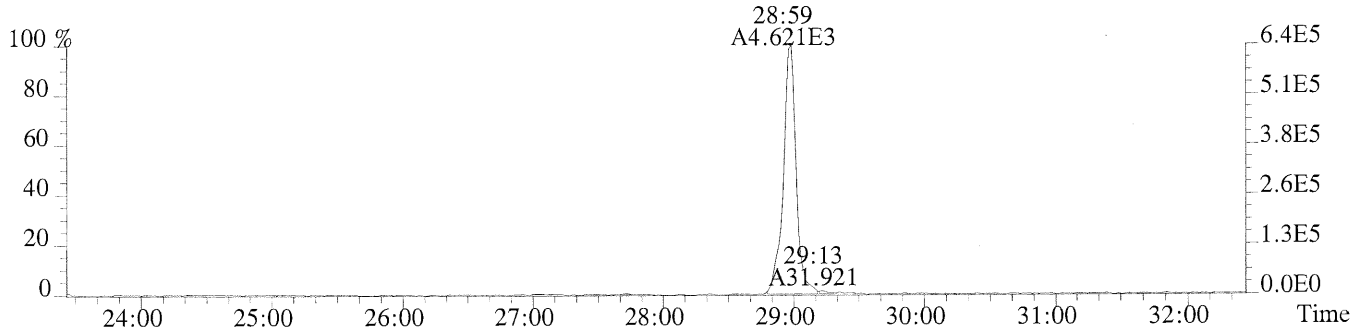


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

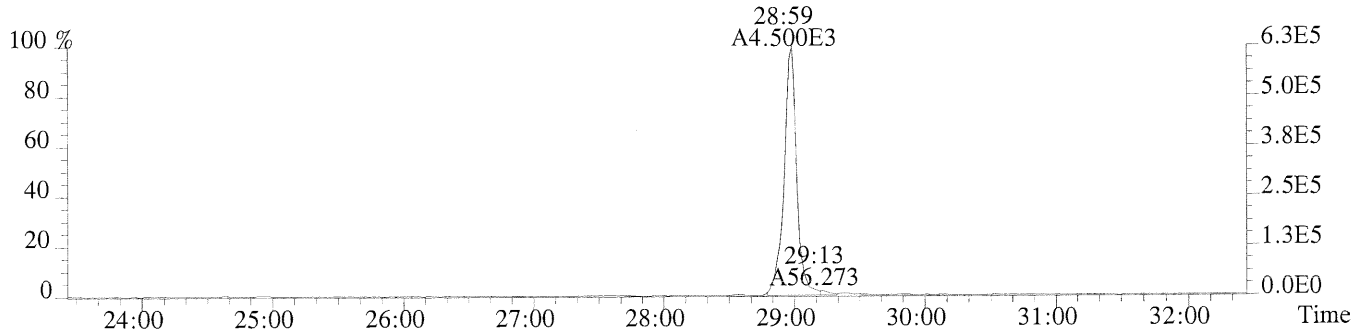


File:U142083 #1-576 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

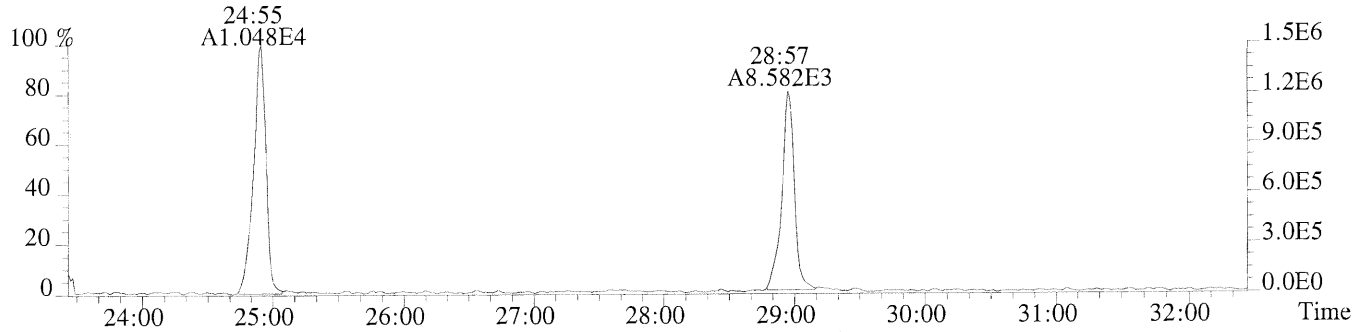
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1532.0,1.00%,F,T)



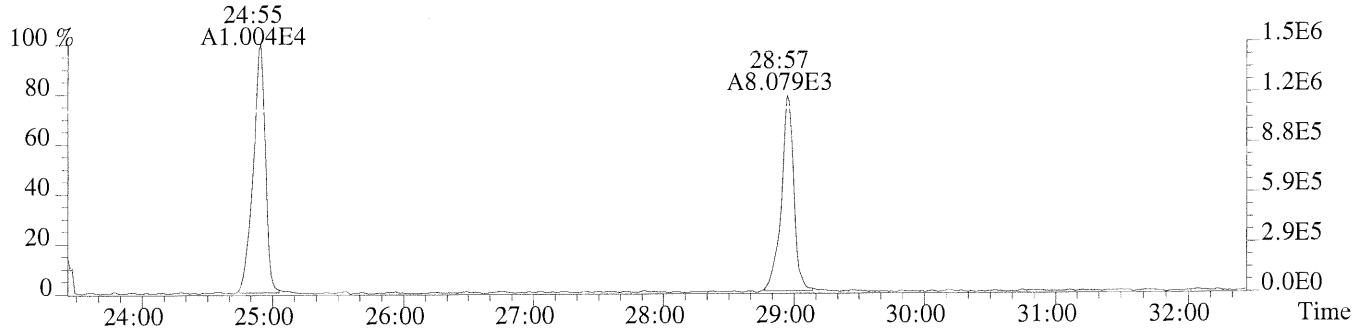
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1724.0,1.00%,F,T)



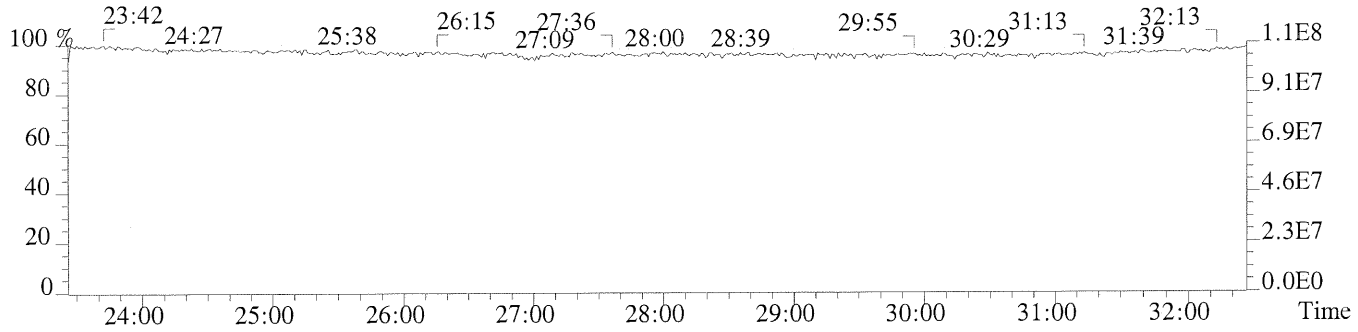
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17392.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11224.0,1.00%,F,T)

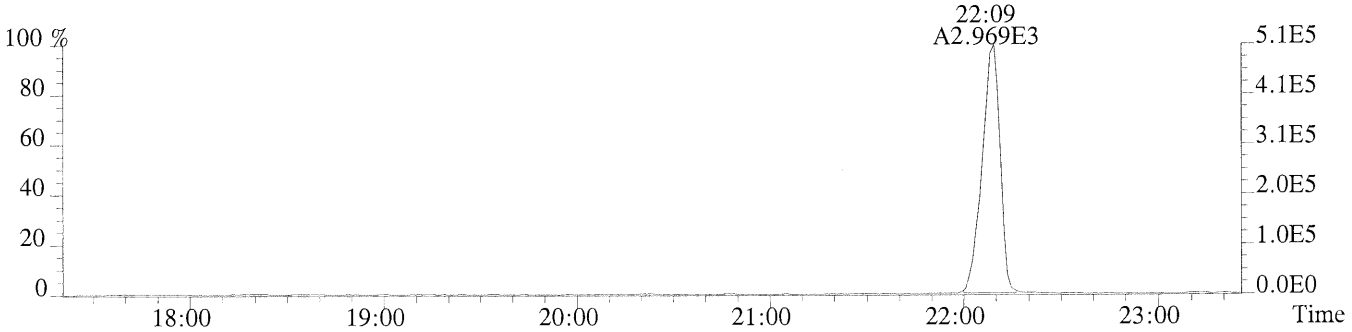


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

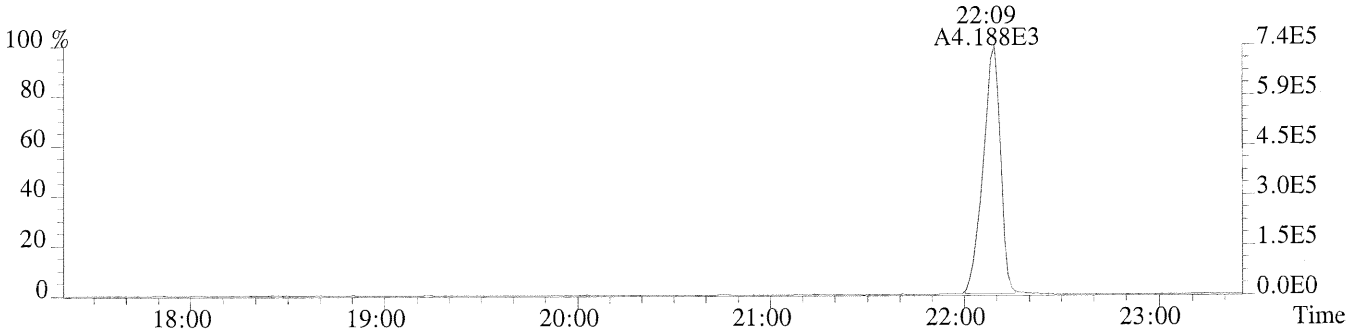


File:U142083 #1-336 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

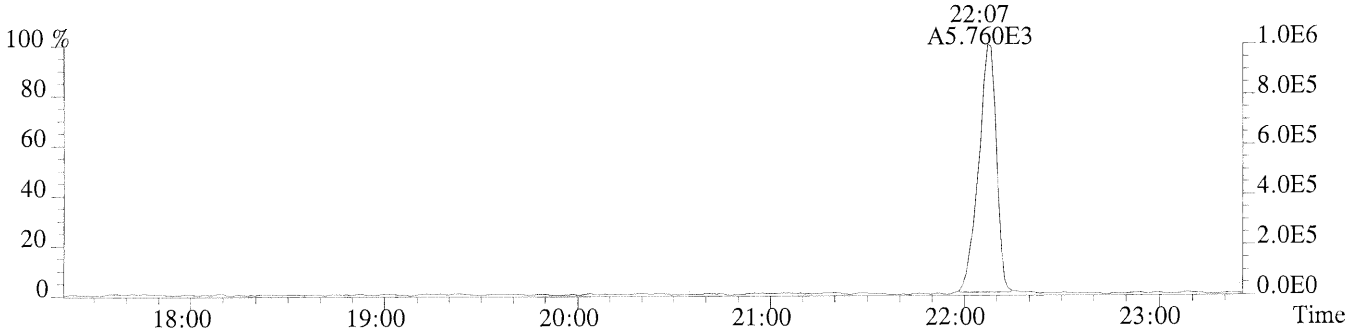
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2344.0,1.00%,F,T)



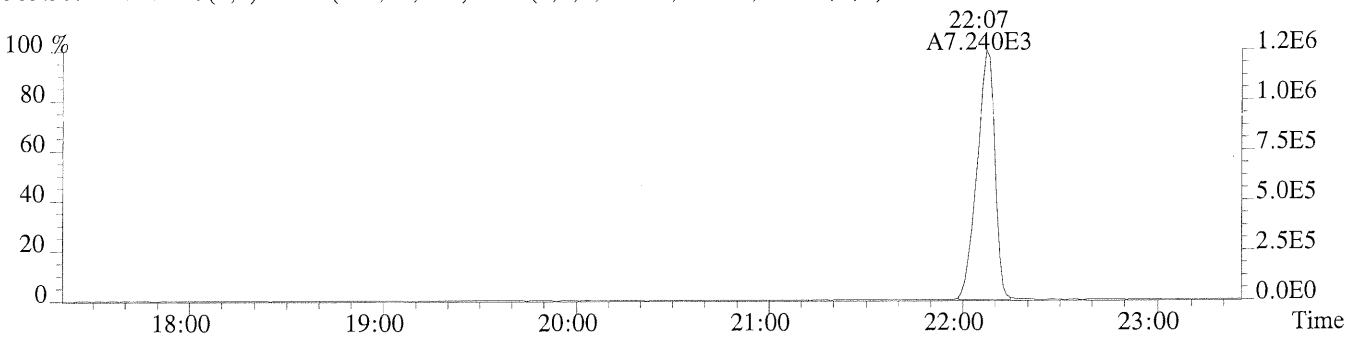
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2792.0,1.00%,F,T)



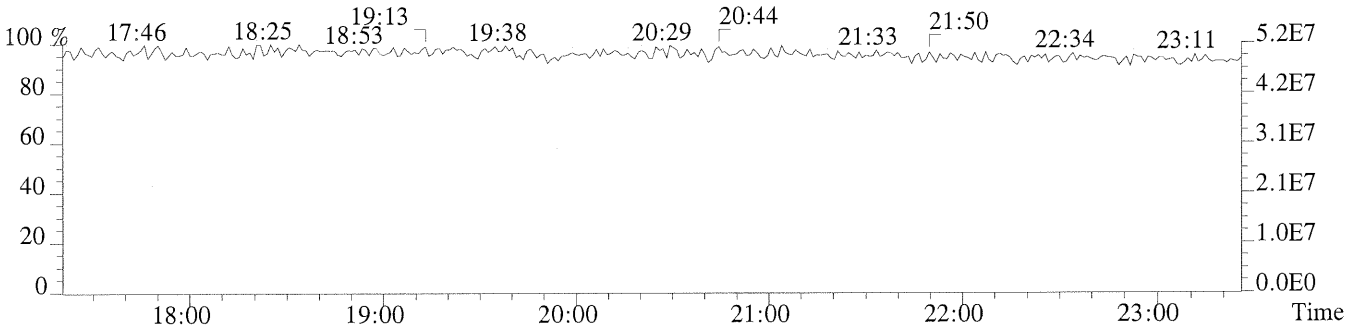
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8484.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3152.0,1.00%,F,T)

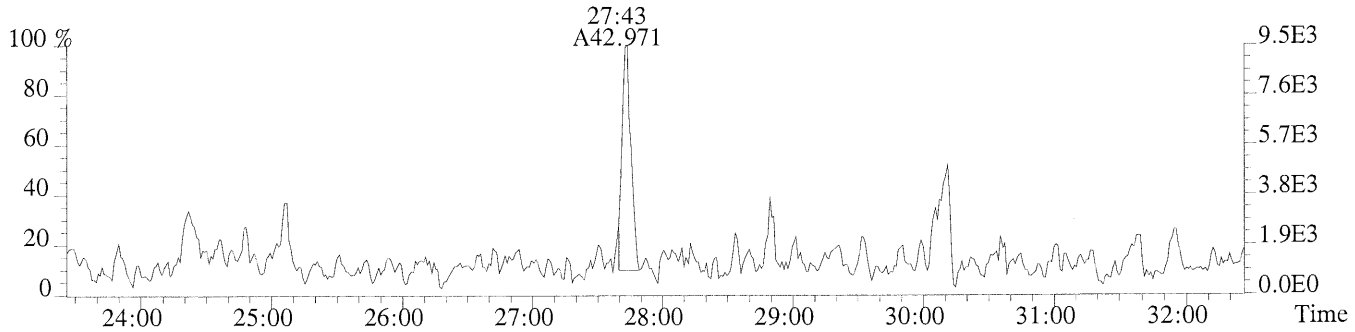


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

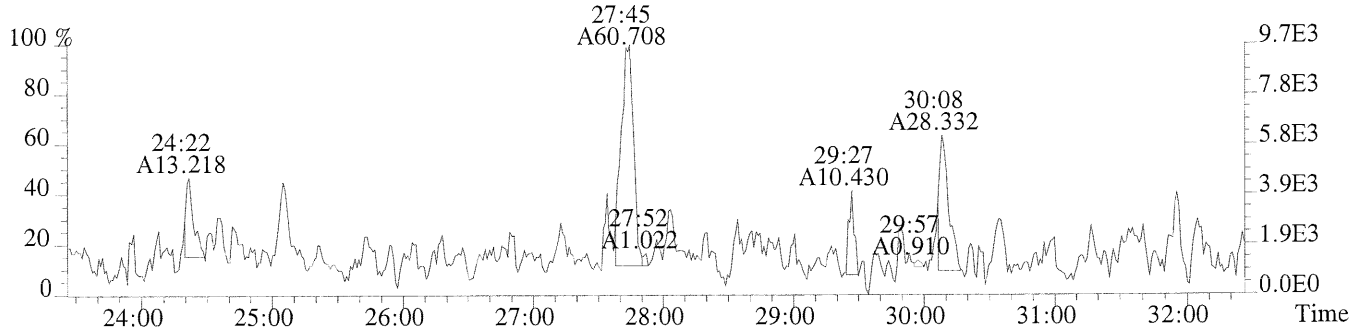


File:U142083 #1-576 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

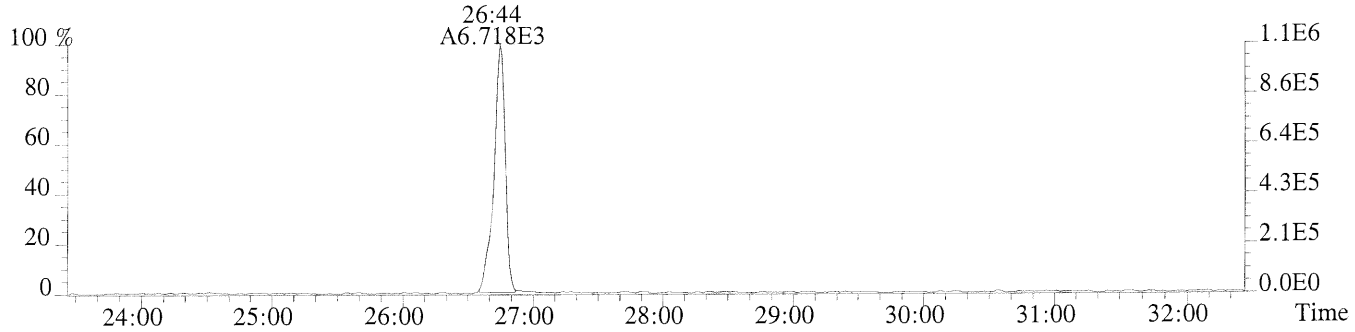
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1520.0,1.00%,F,T)



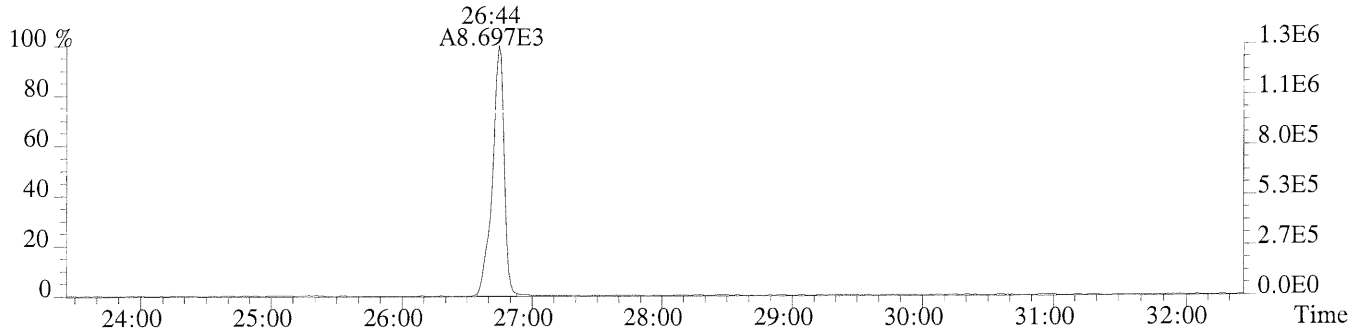
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1900.0,1.00%,F,T)



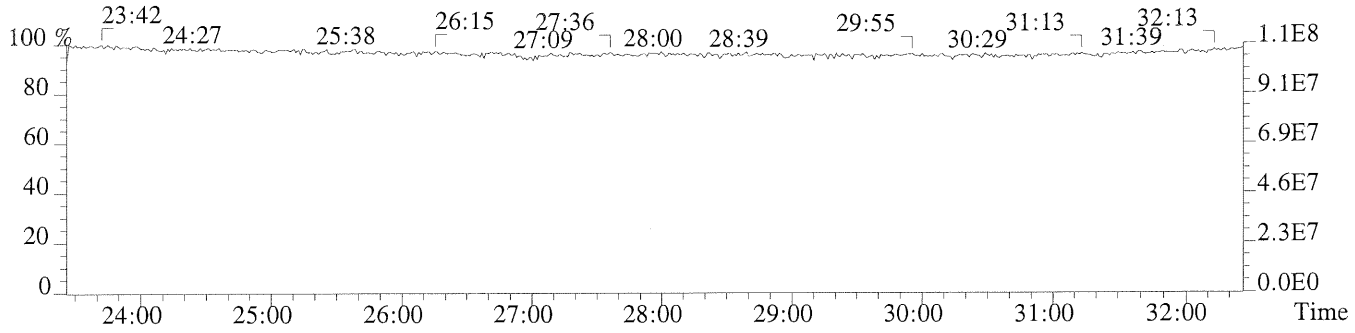
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6812.0,1.00%,F,T)



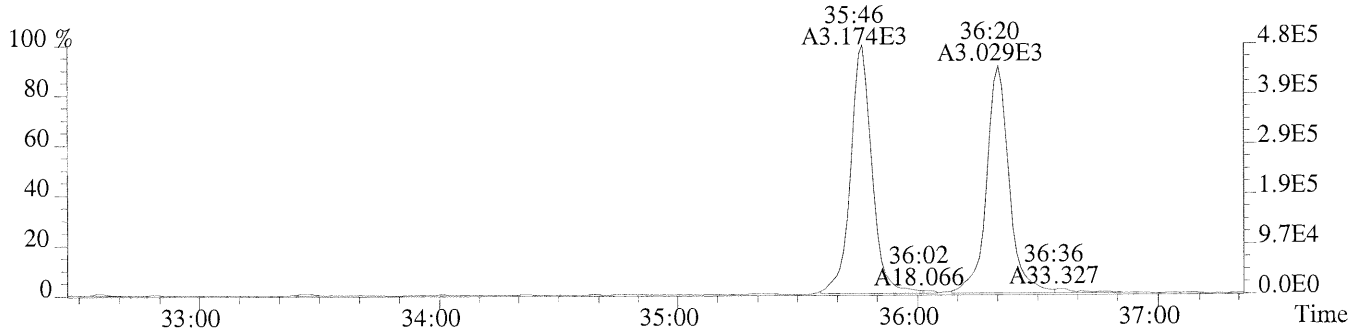
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2164.0,1.00%,F,T)



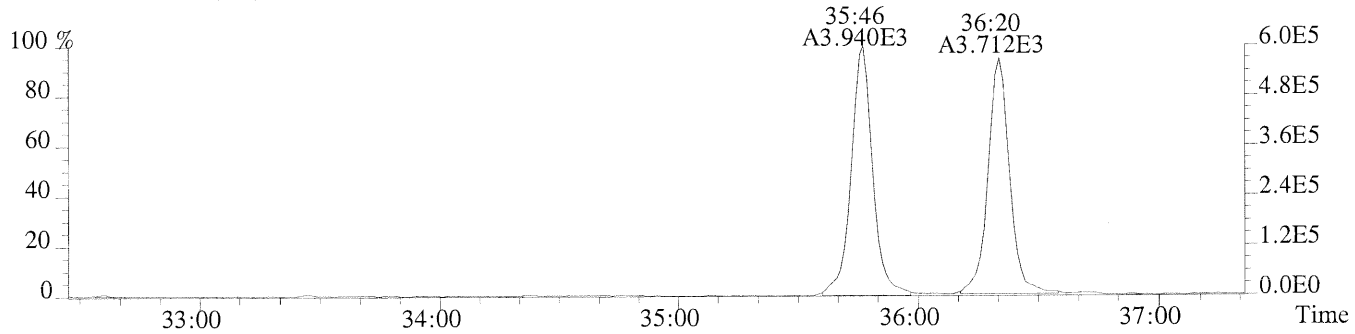
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



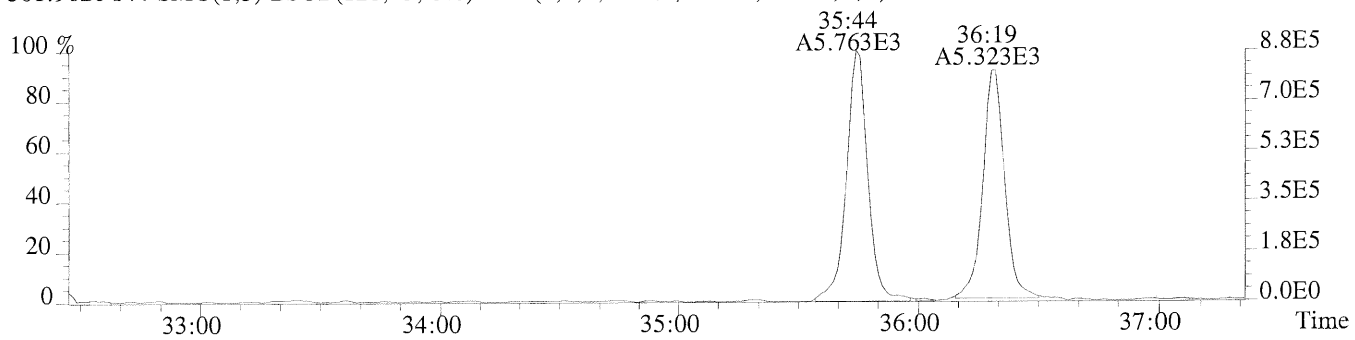
File:U142083 #1-314 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1616.0,1.00%,F,T)



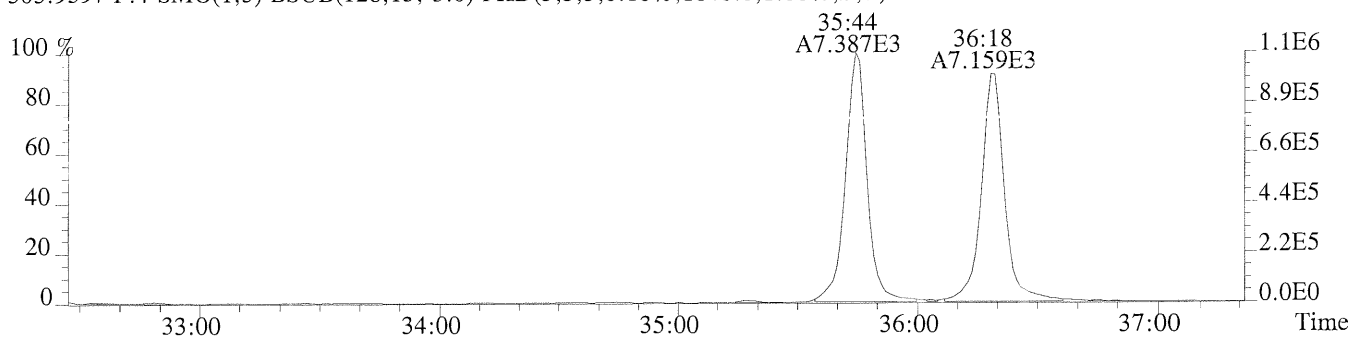
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1776.0,1.00%,F,T)



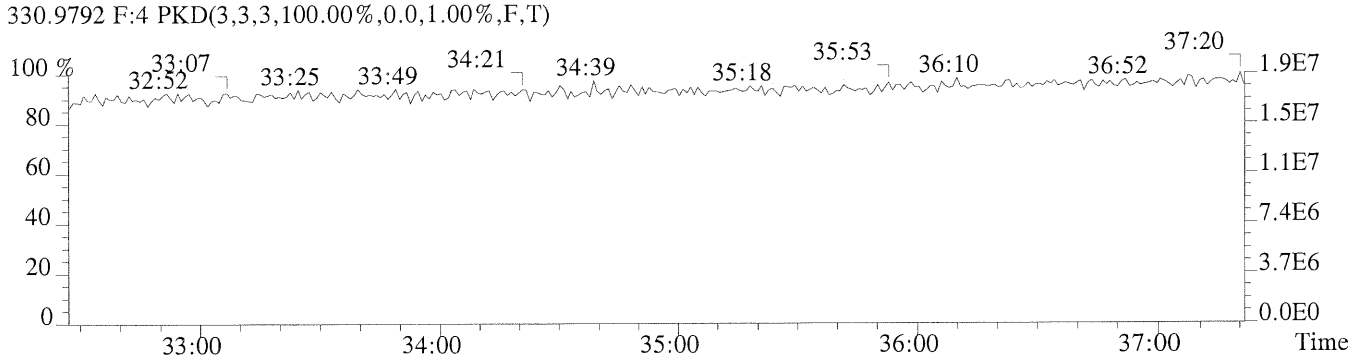
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4988.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1848.0,1.00%,F,T)

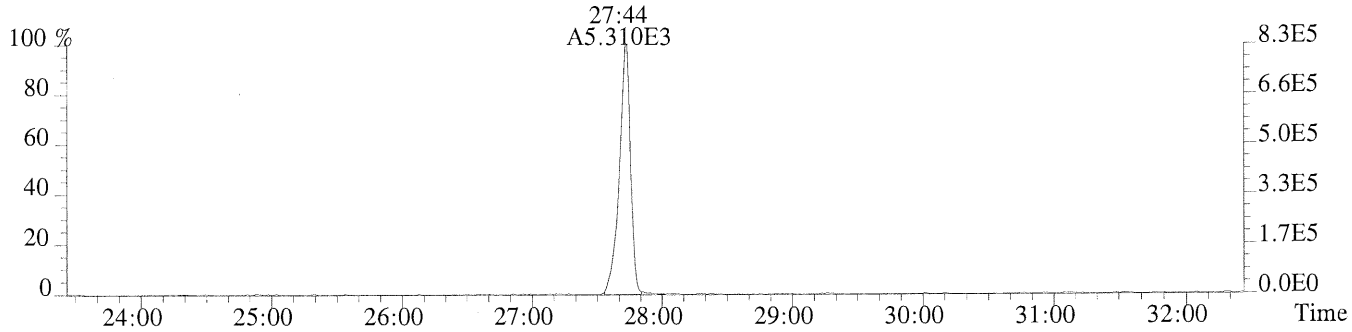


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

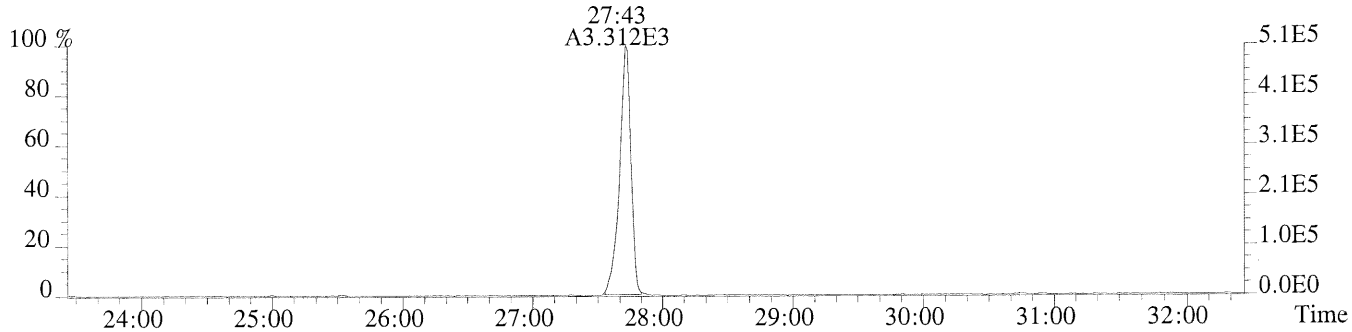


File:U142083 #1-576 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

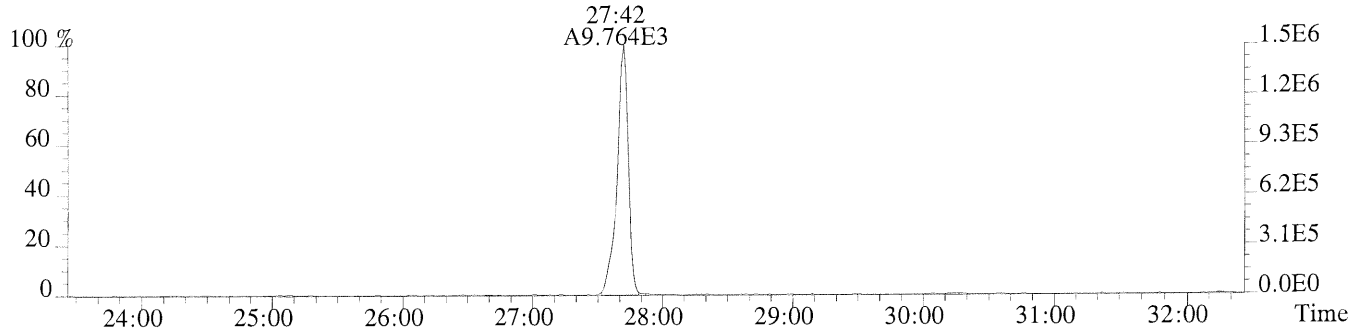
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



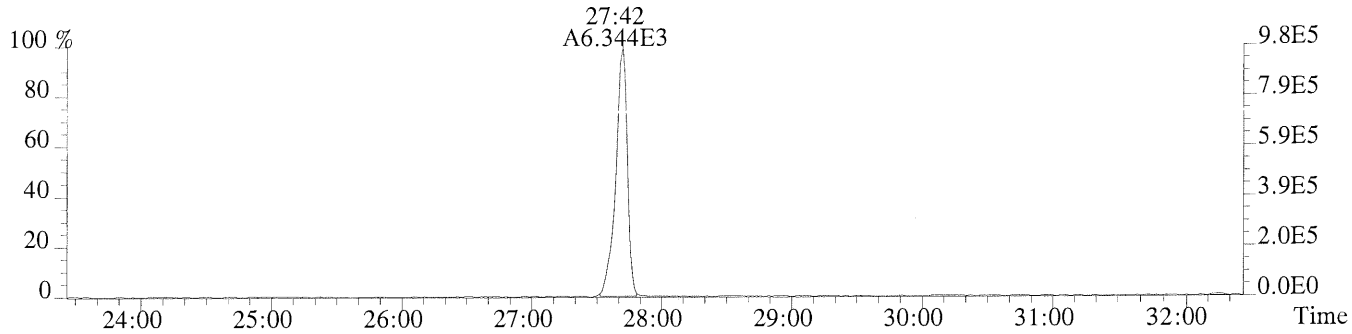
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1776.0,1.00%,F,T)



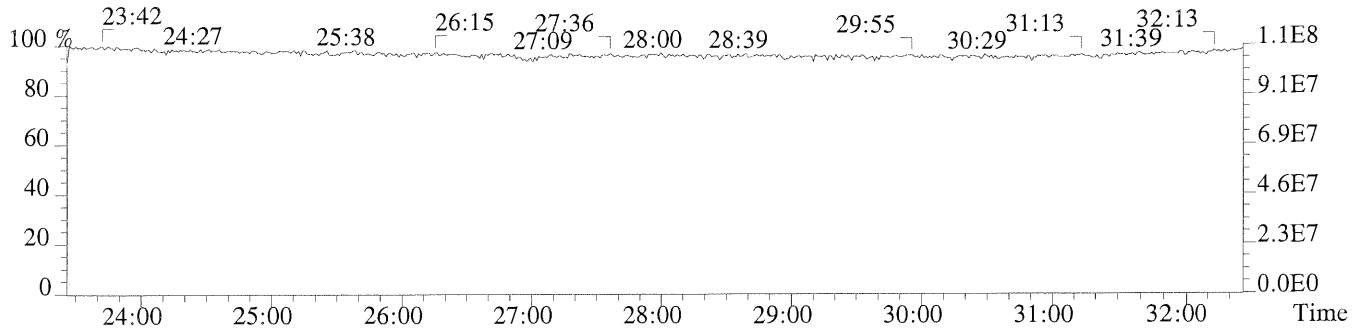
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1972.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1644.0,1.00%,F,T)

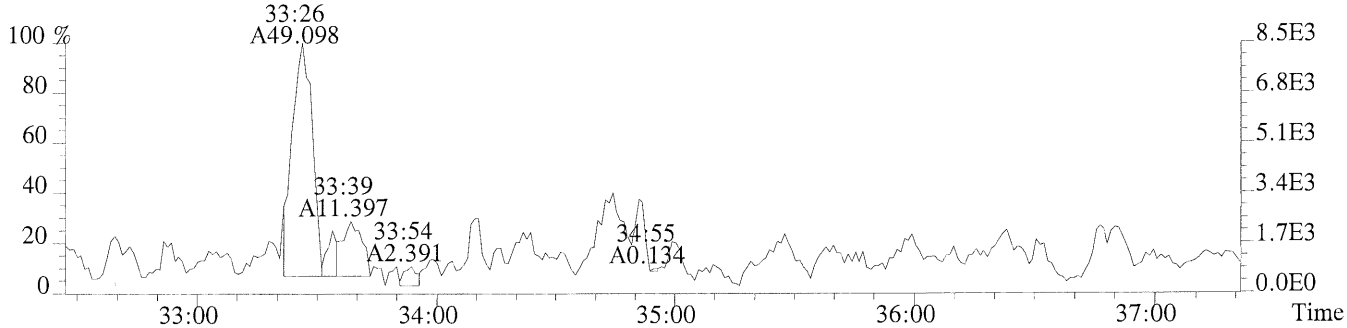


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

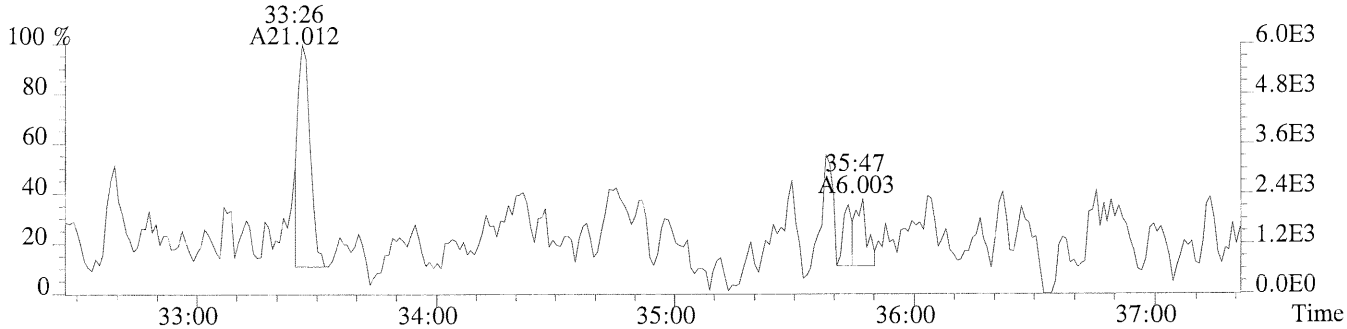


File:U142083 #1-314 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

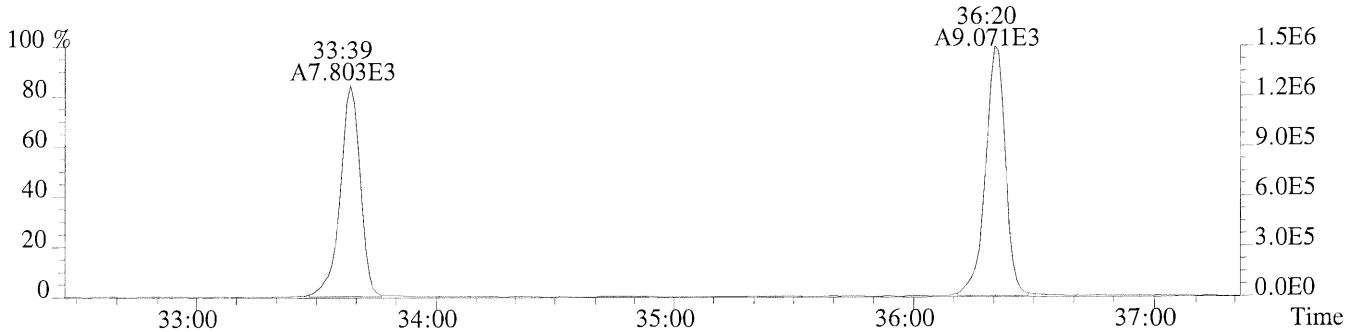
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1508.0,1.00%,F,T)



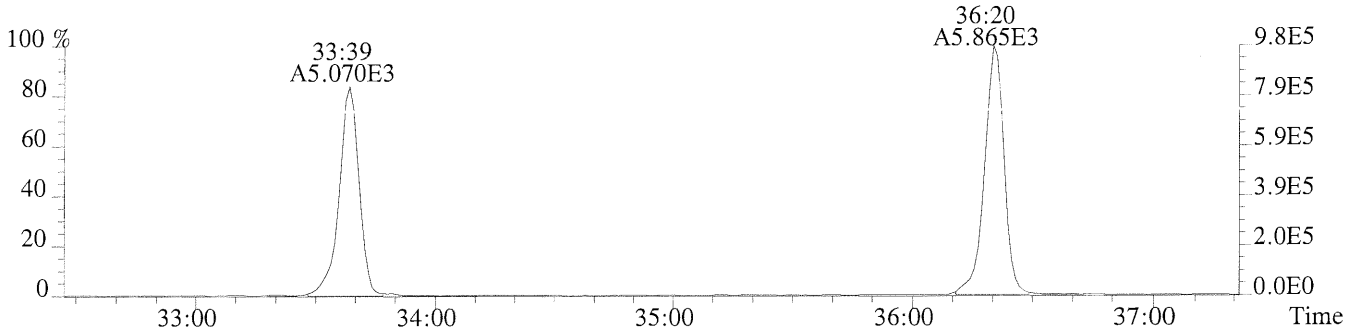
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1712.0,1.00%,F,T)



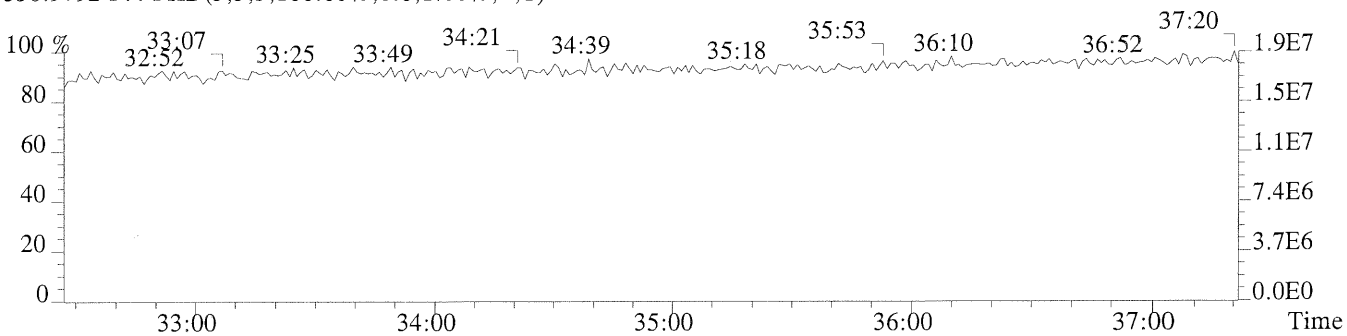
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2656.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2024.0,1.00%,F,T)

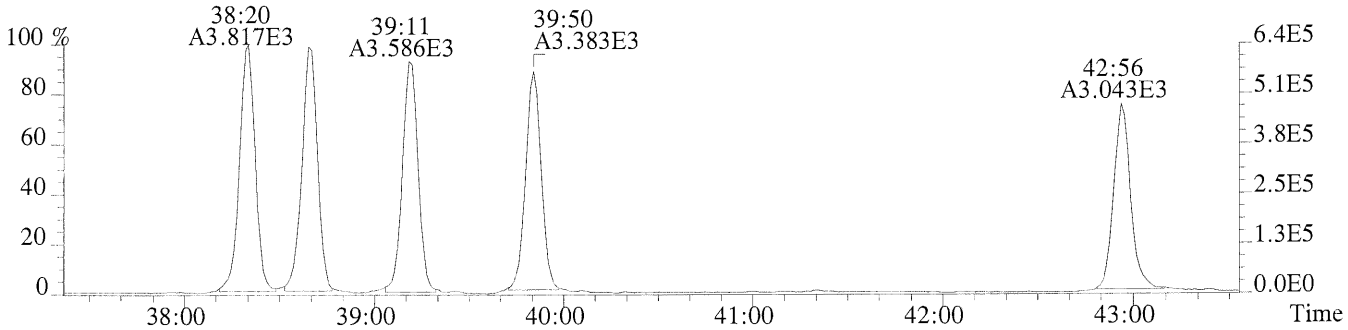


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

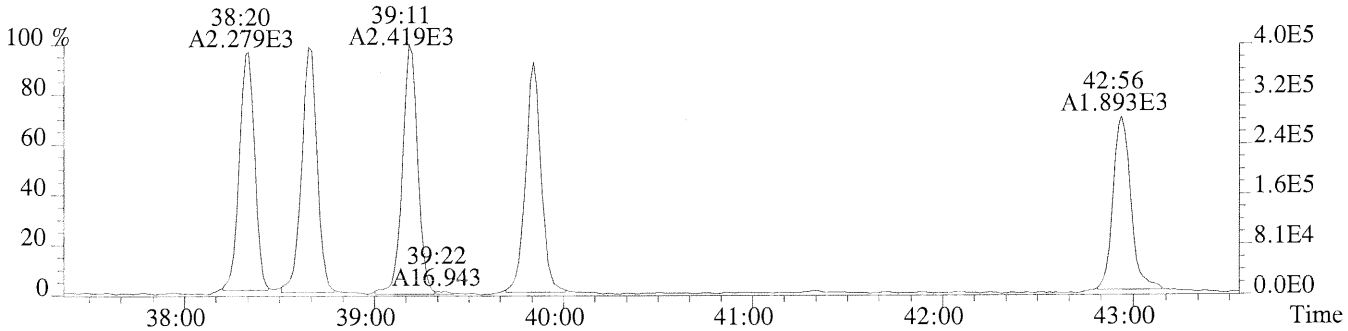


File:U142083 #1-396 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

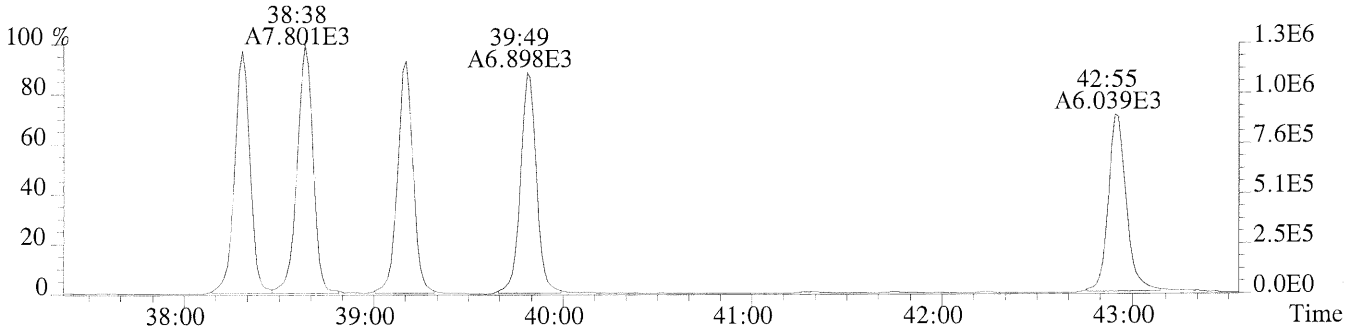
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6900.0,1.00%,F,T)



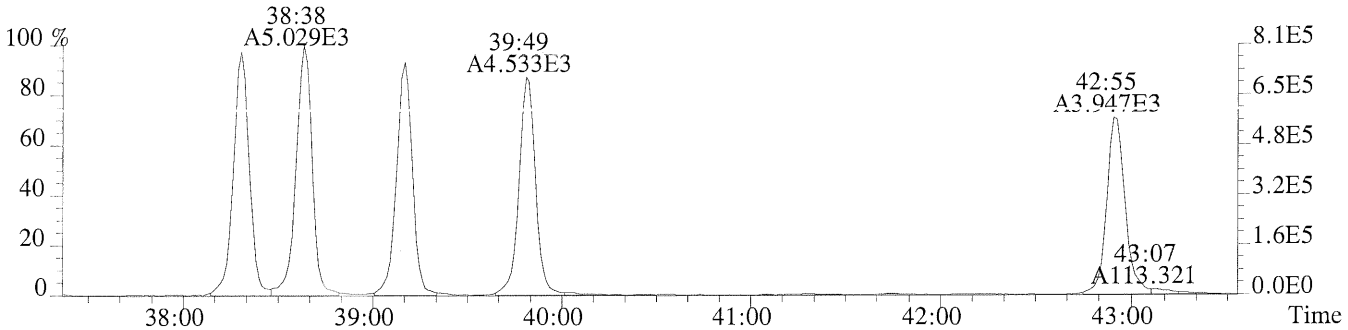
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4604.0,1.00%,F,T)



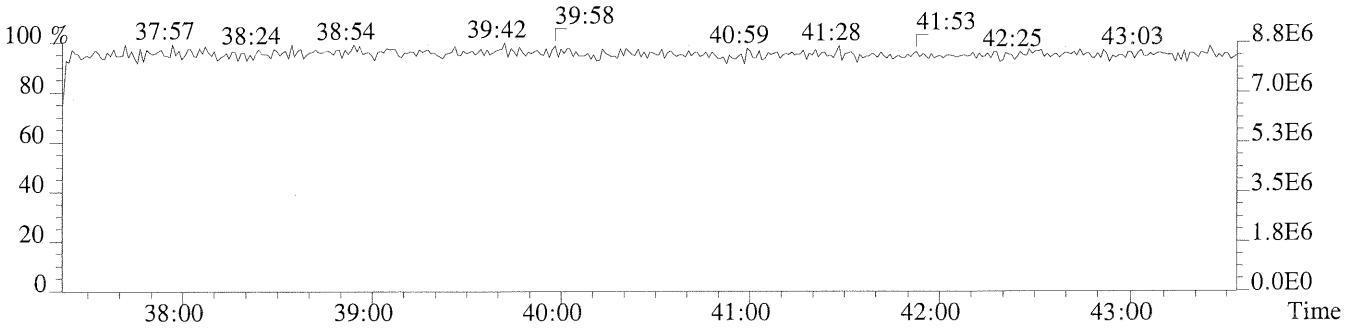
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5708.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)

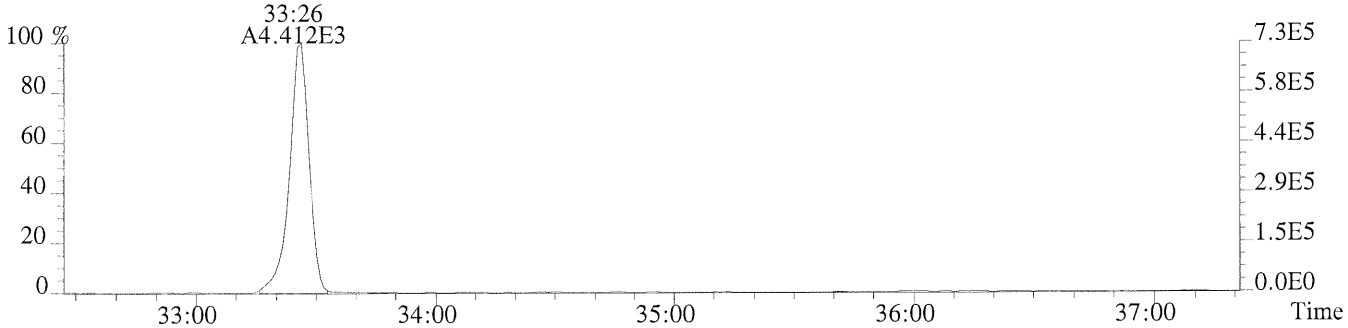


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

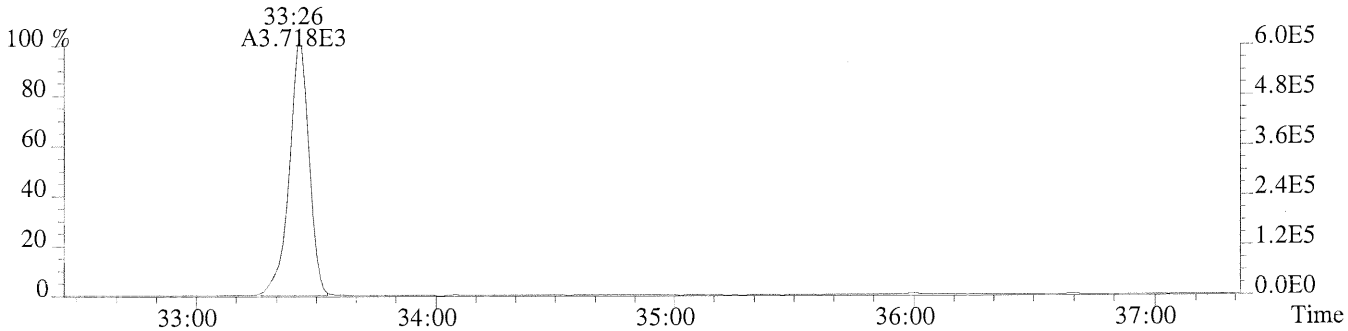


File:U142083 #1-314 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

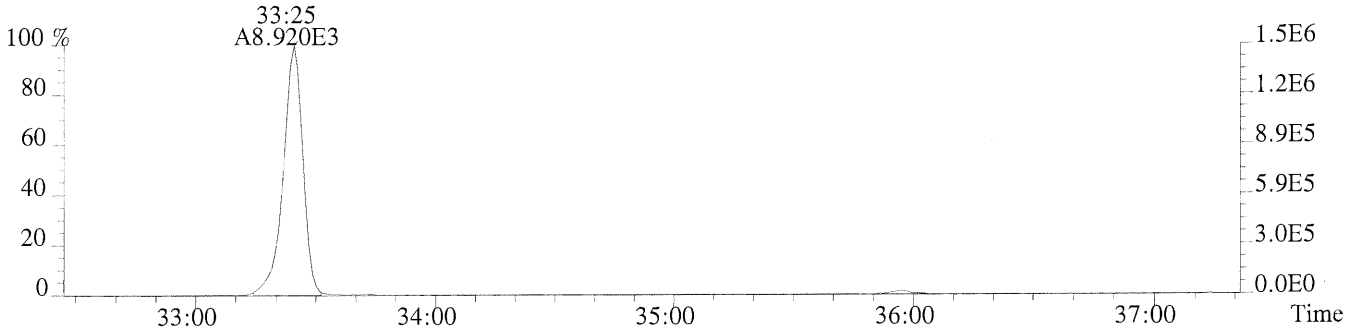
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1116.0,1.00%,F,T)



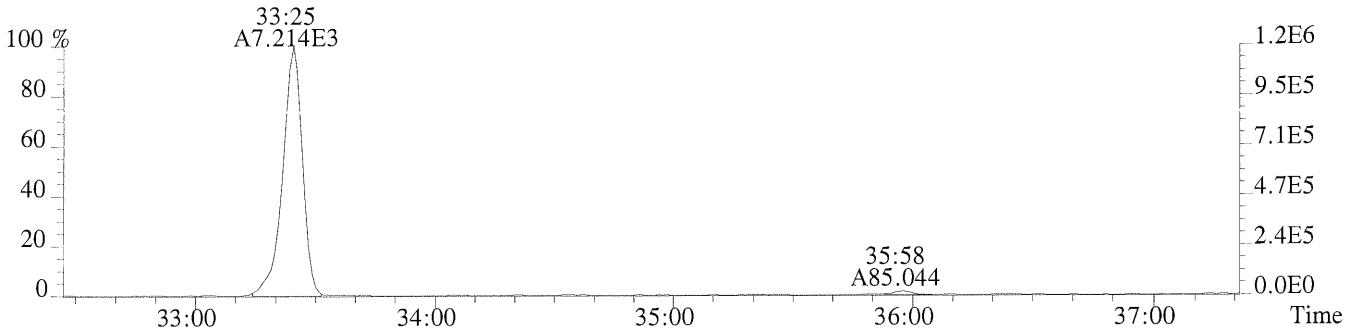
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1932.0,1.00%,F,T)



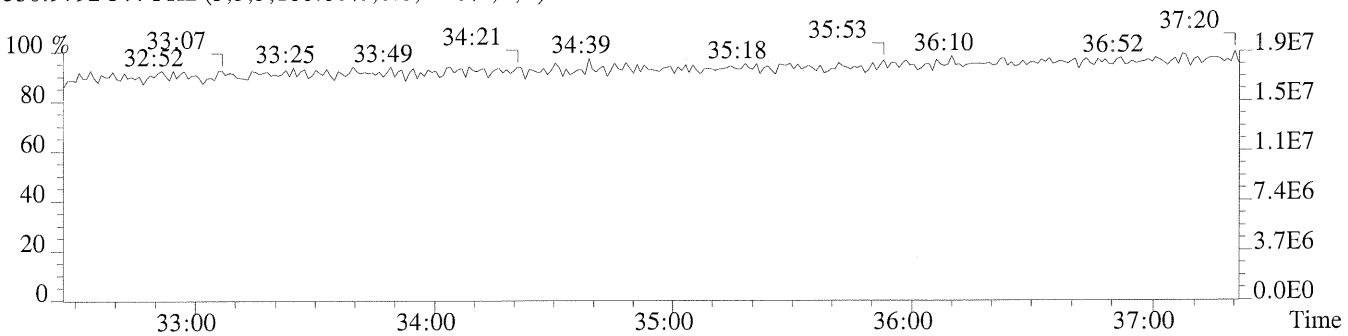
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1624.0,1.00%,F,T)

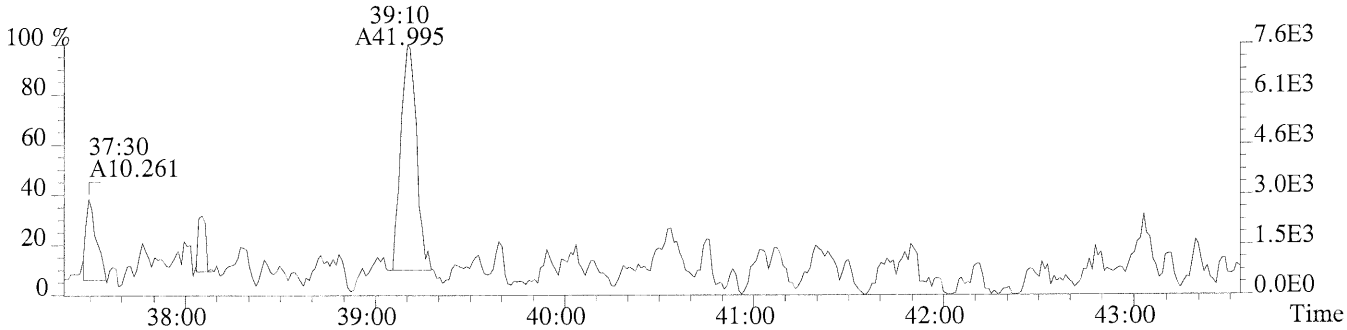


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

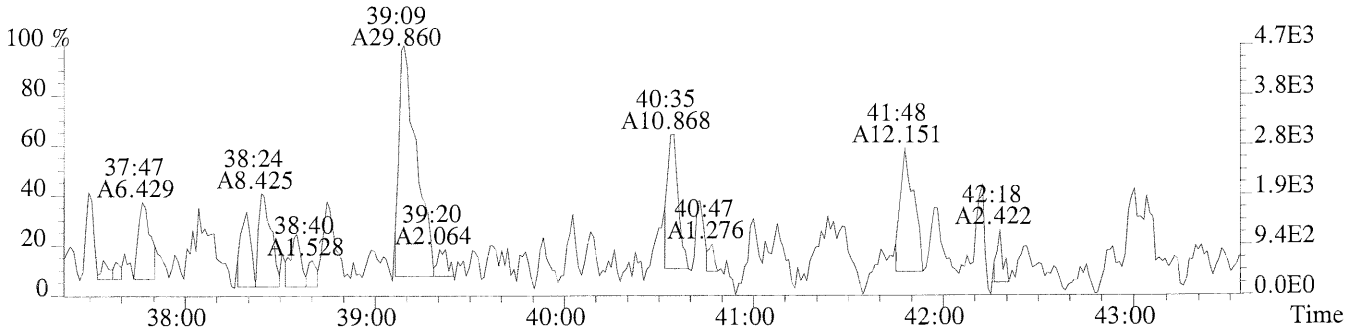


File:U142083 #1-396 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

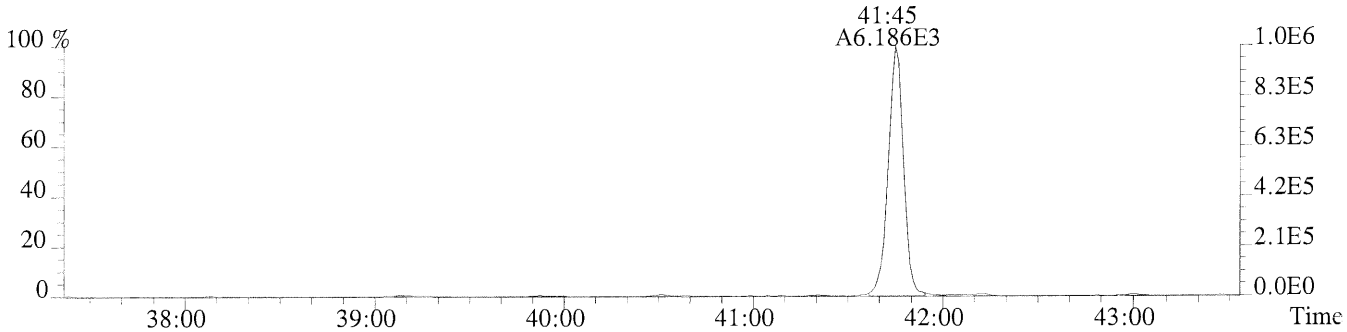
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



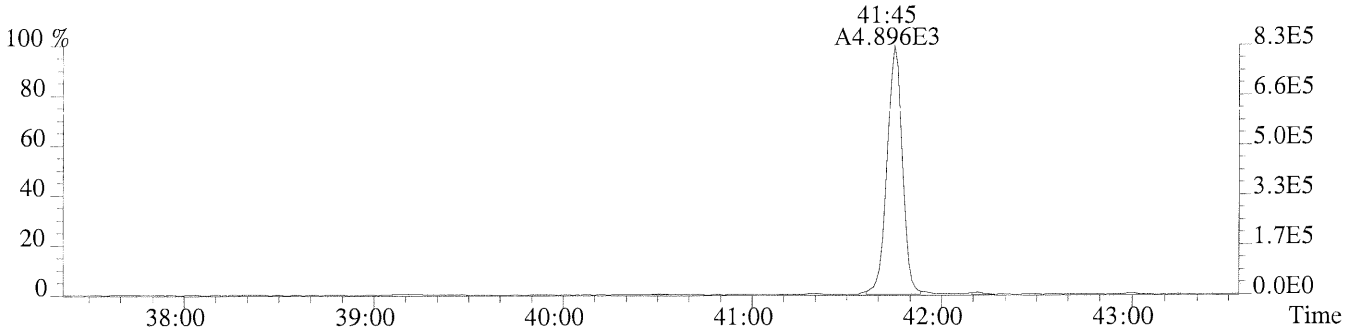
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



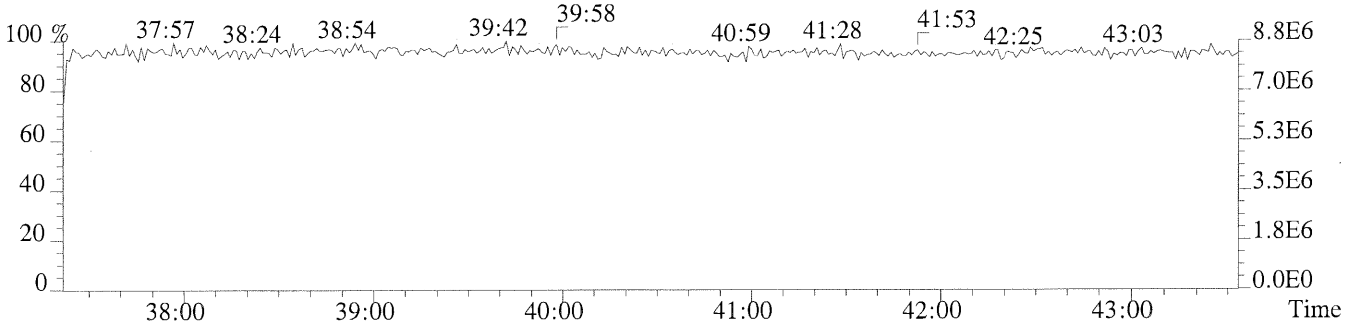
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1796.0,1.00%,F,T)

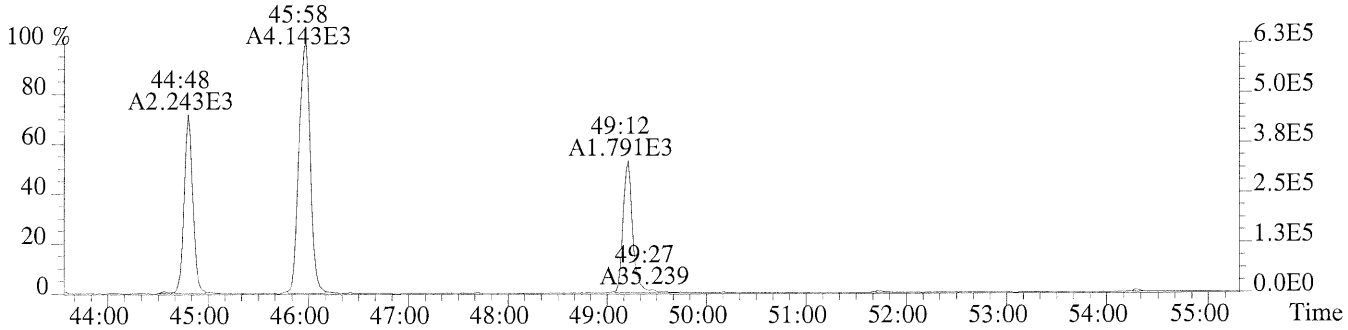


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

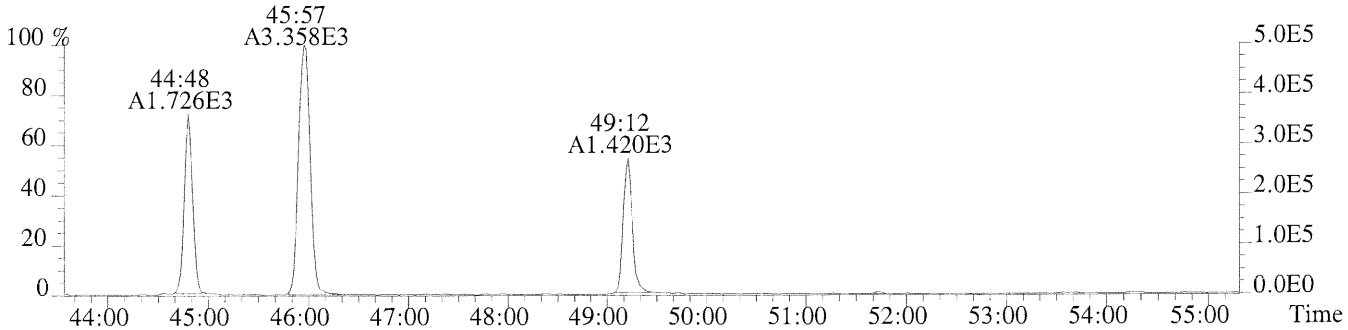


File:U142083 #1-582 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

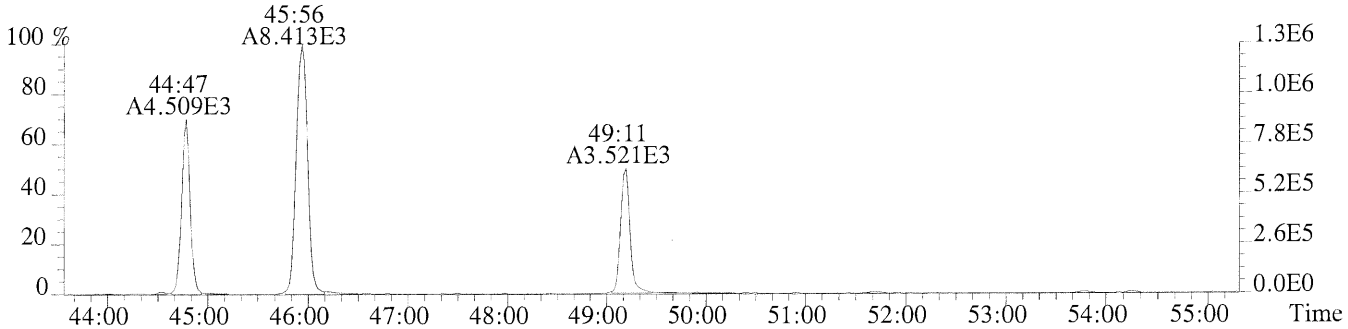
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1852.0,1.00%,F,T)



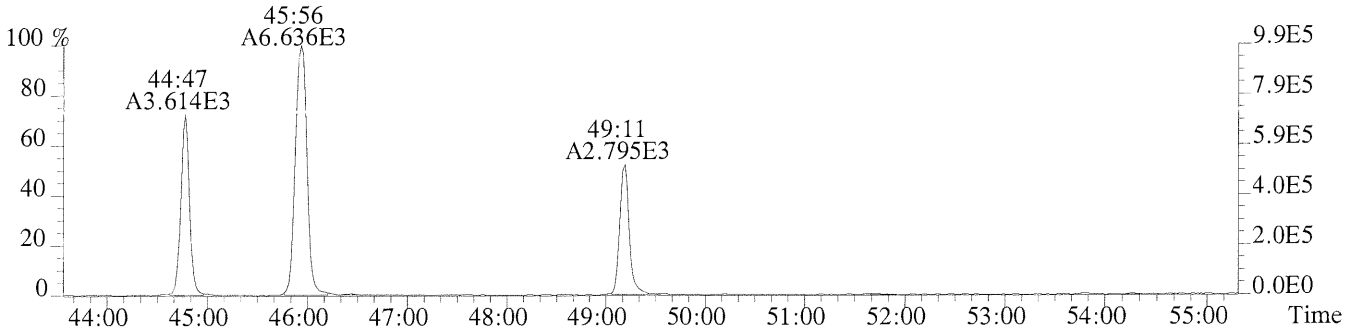
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1644.0,1.00%,F,T)



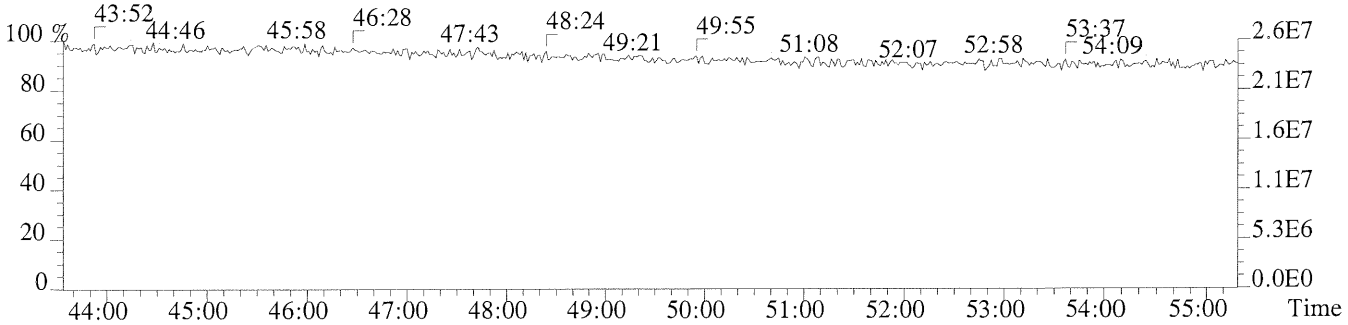
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1460.0,1.00%,F,T)



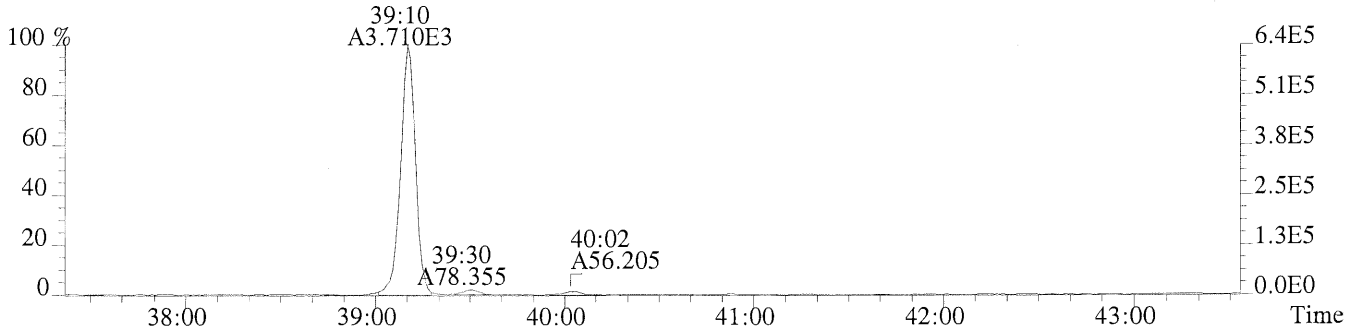
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1624.0,1.00%,F,T)



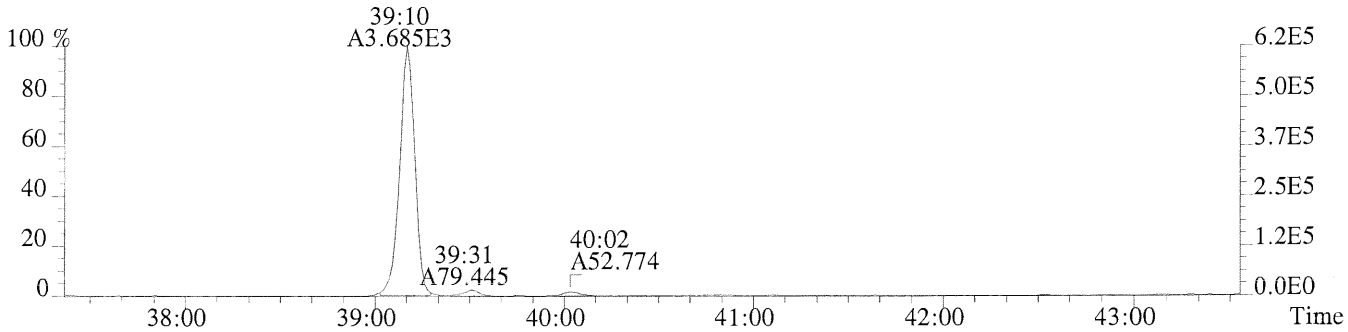
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



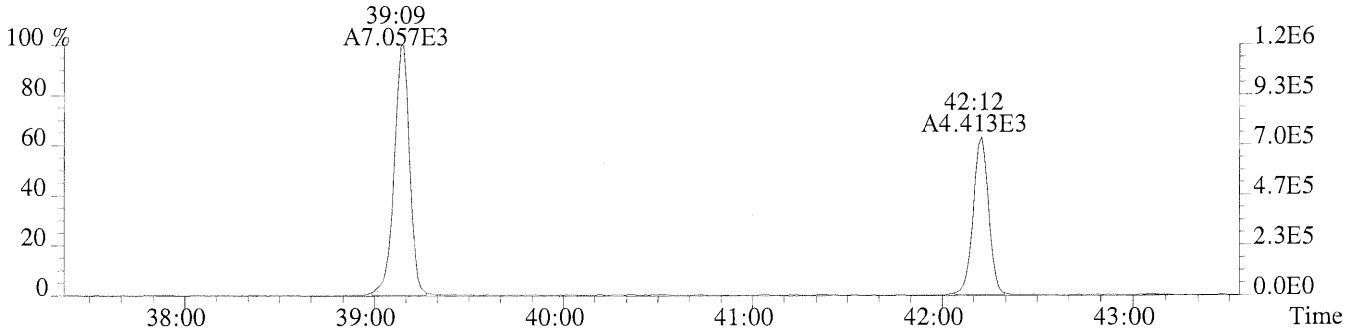
File:U142083 #1-396 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



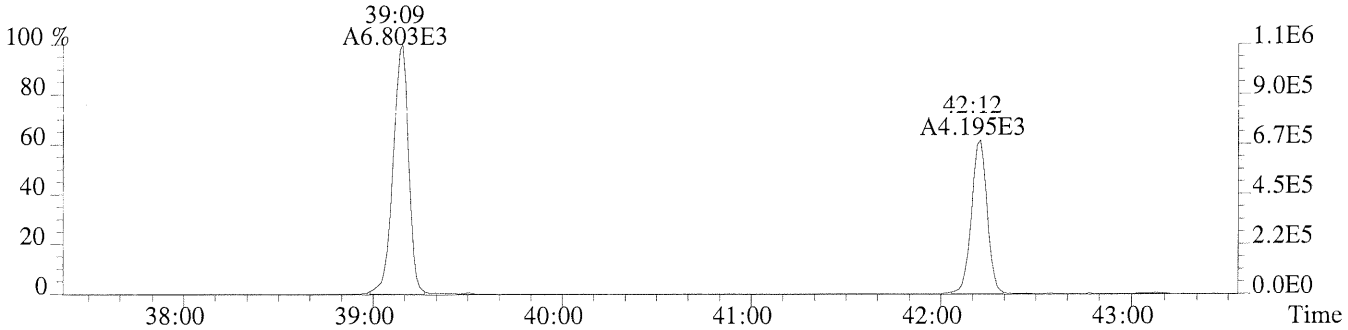
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,632.0,1.00%,F,T)



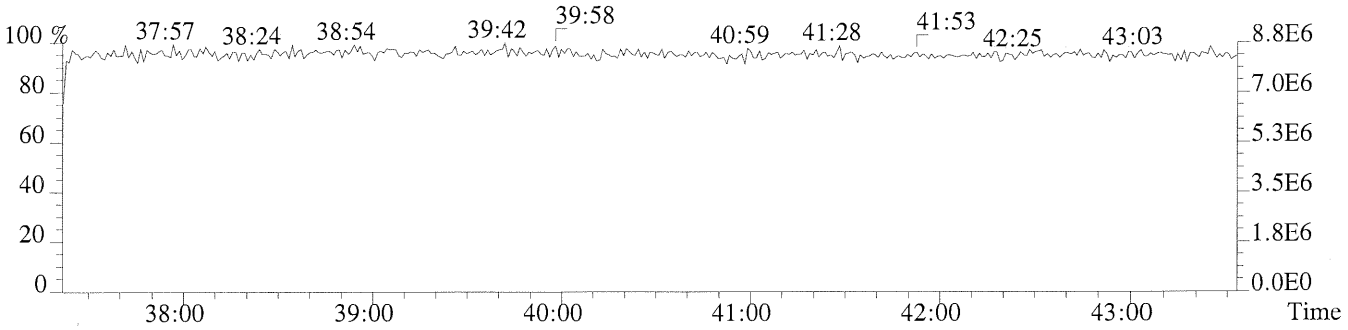
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1672.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,792.0,1.00%,F,T)

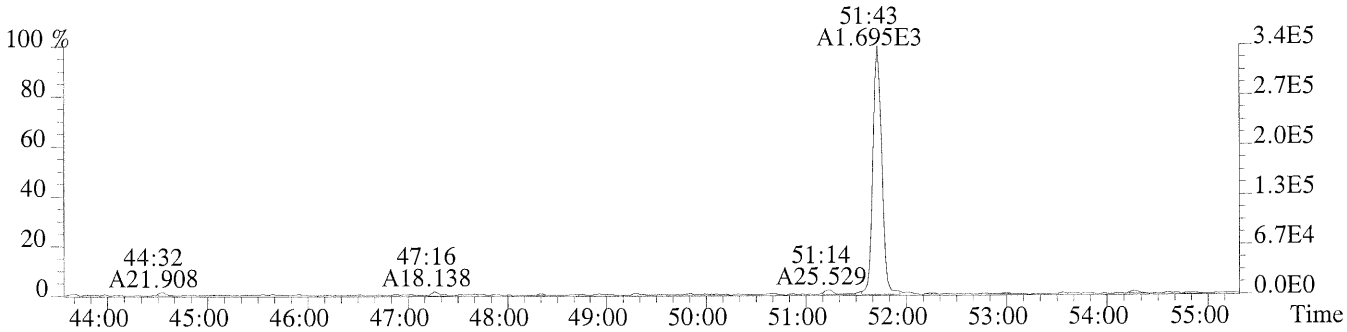


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

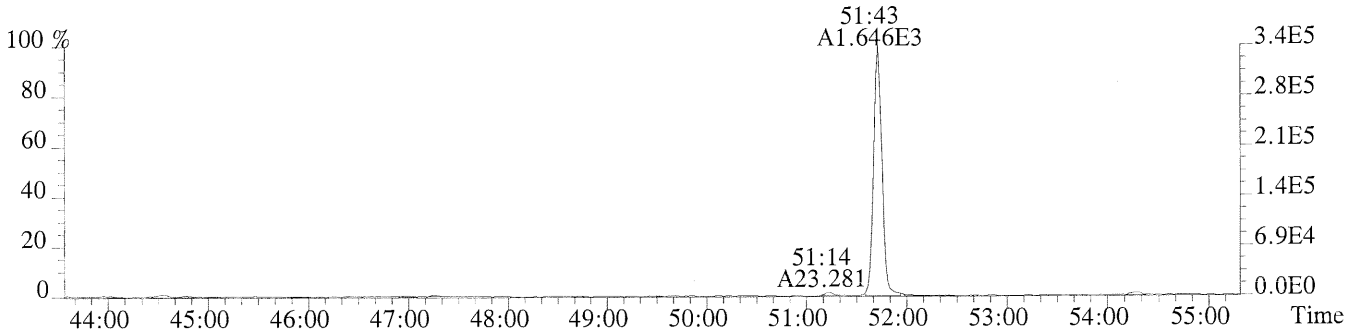


File:U142083 #1-582 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

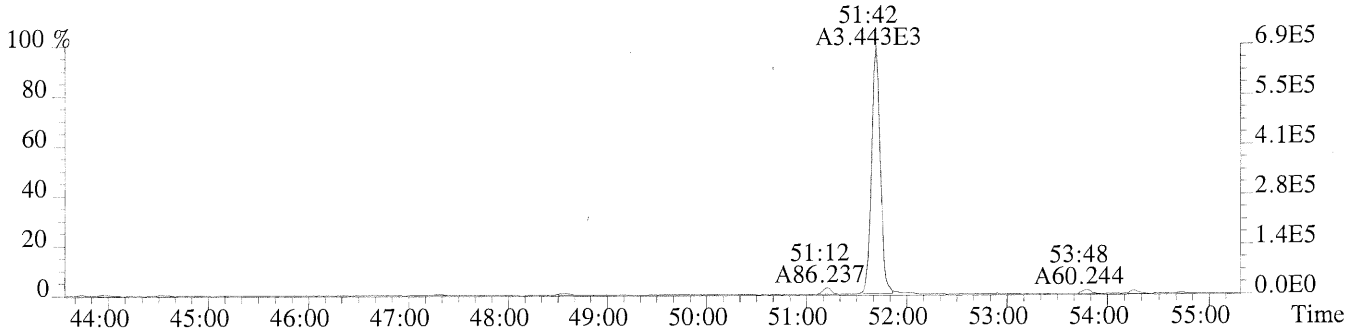
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1516.0,1.00%,F,T)



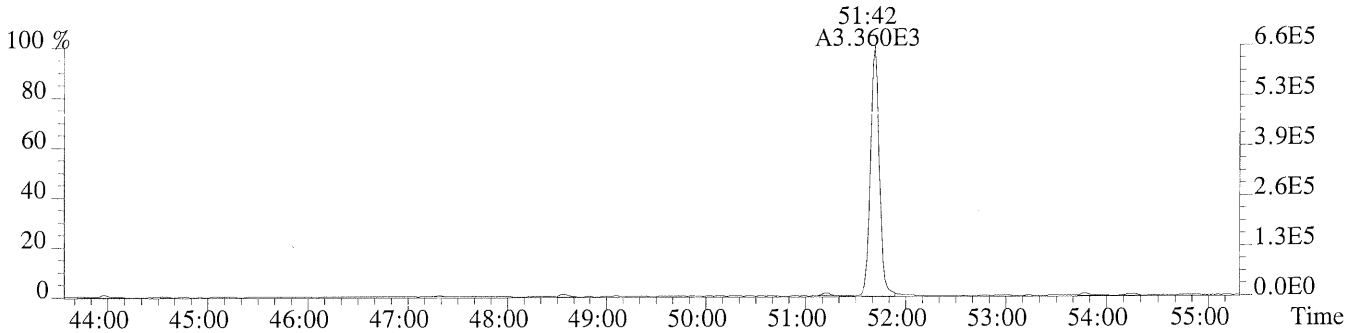
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,712.0,1.00%,F,T)



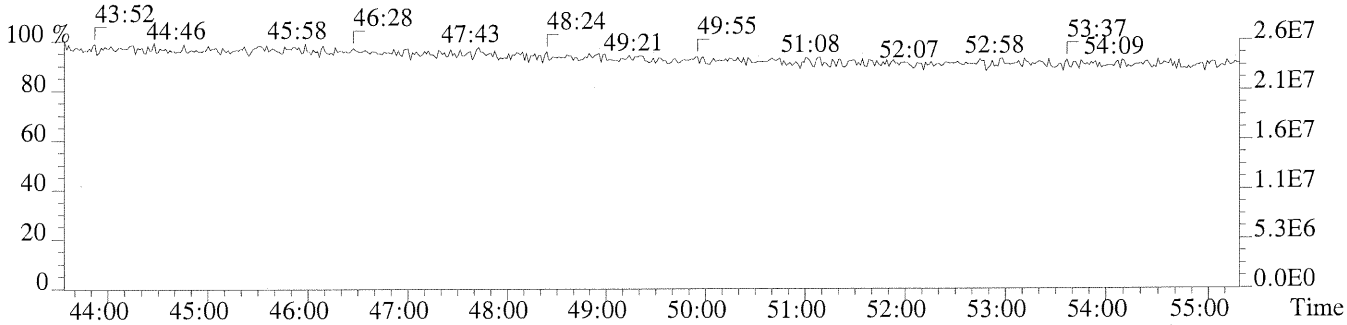
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1912.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1320.0,1.00%,F,T)

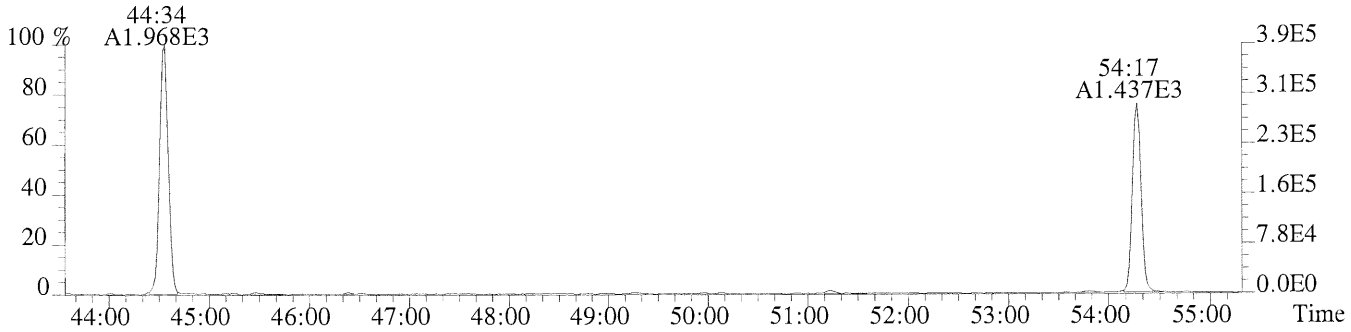


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

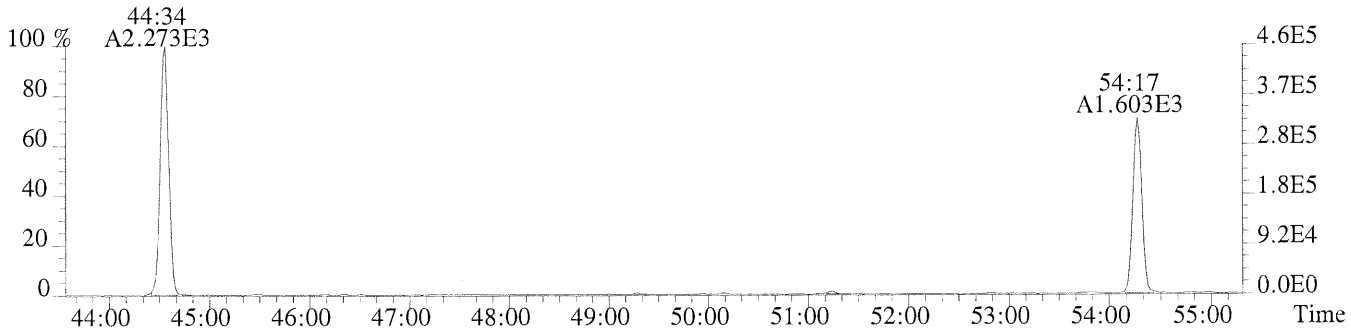


File:U142083 #1-582 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

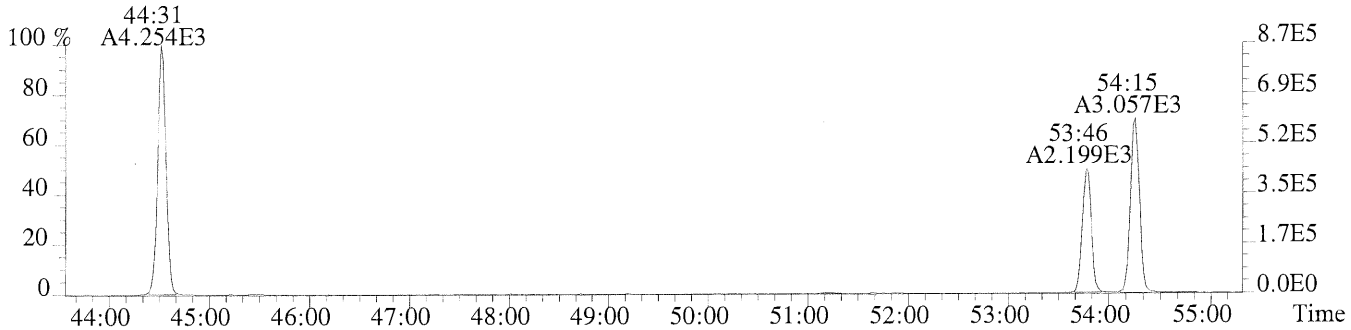
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,948.0,1.00%,F,T)



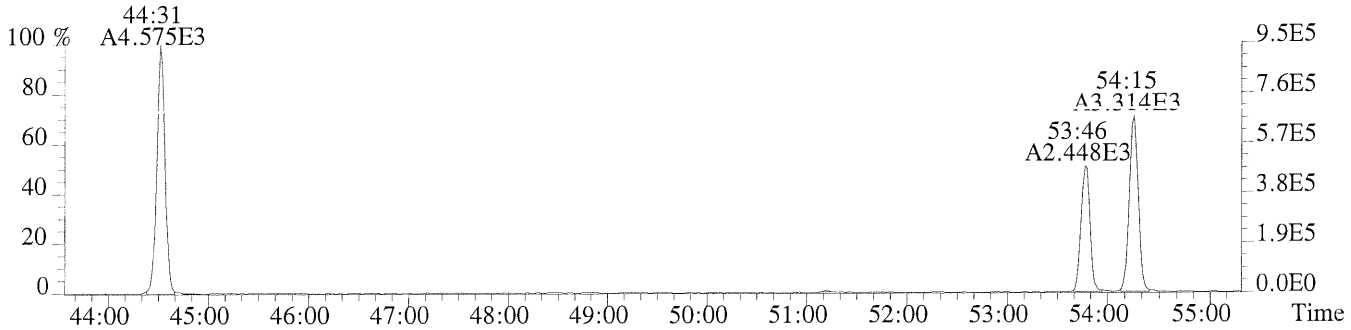
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1460.0,1.00%,F,T)



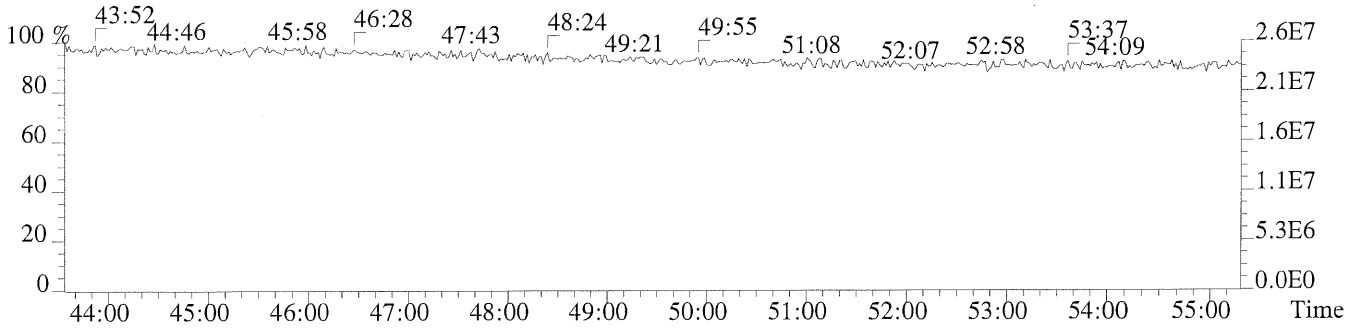
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1536.0,1.00%,F,T)

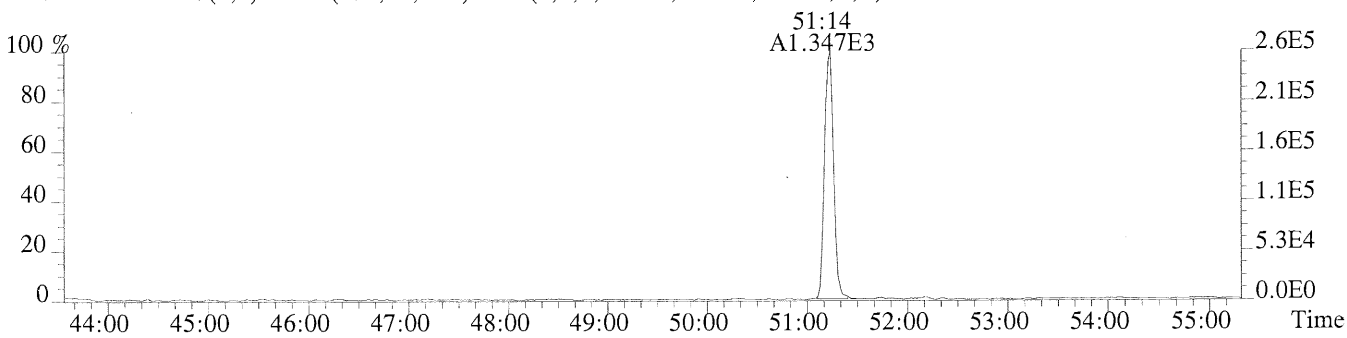


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

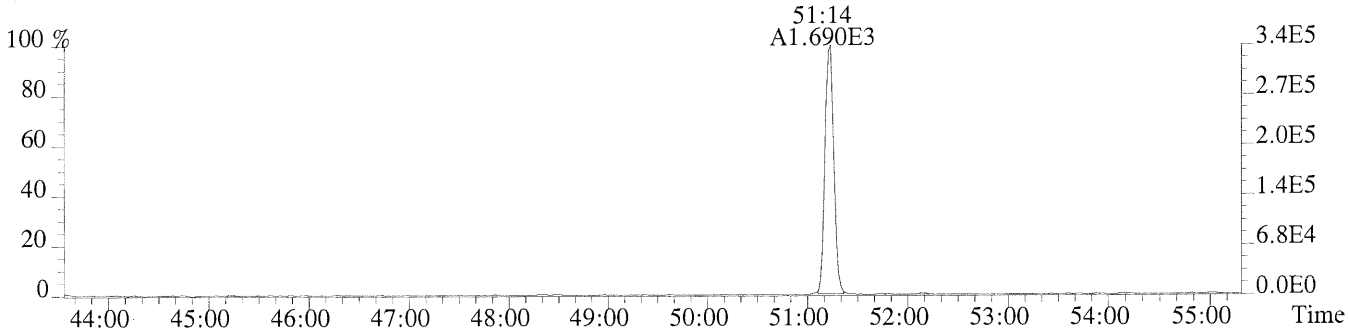


File:U142083 #1-582 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

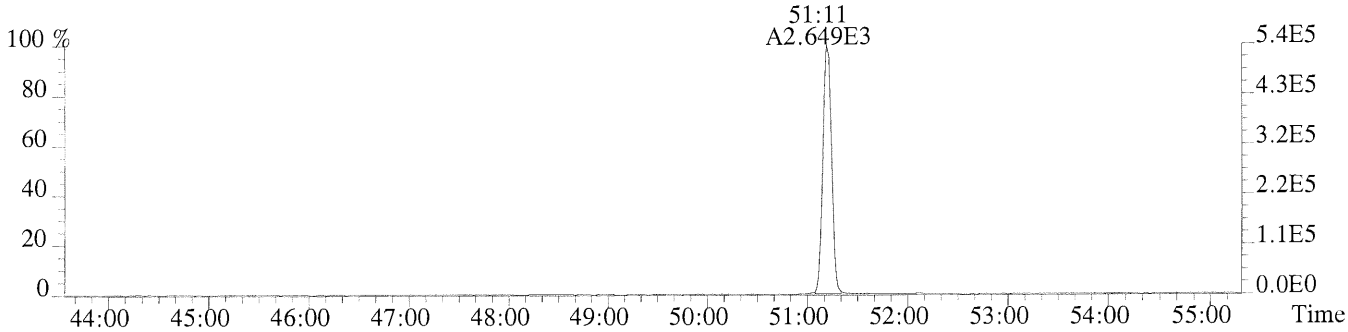
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1736.0,1.00%,F,T)



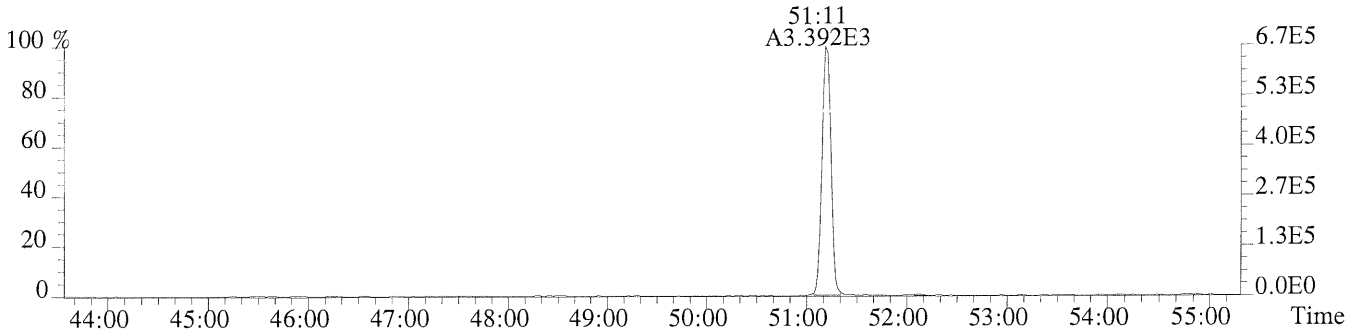
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1384.0,1.00%,F,T)



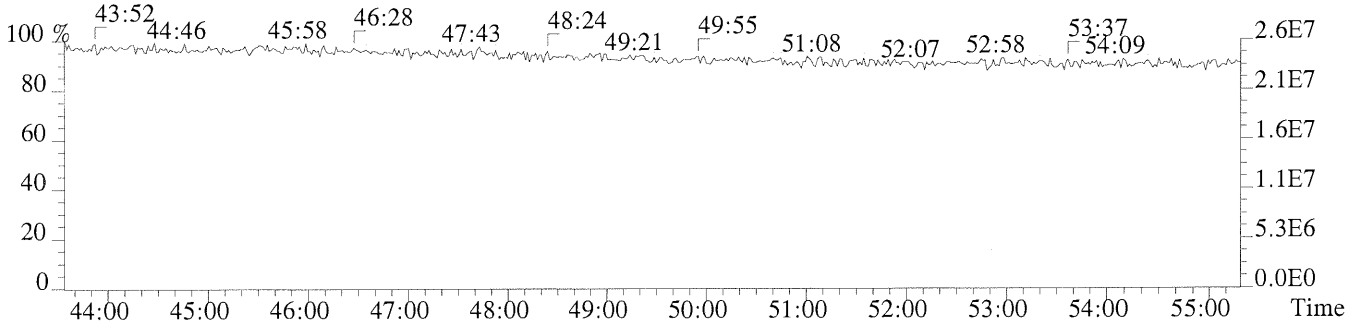
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)

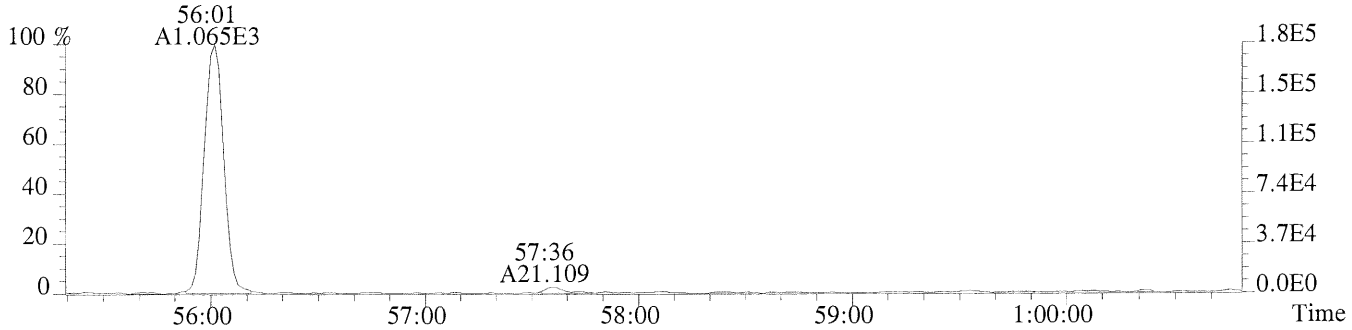


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

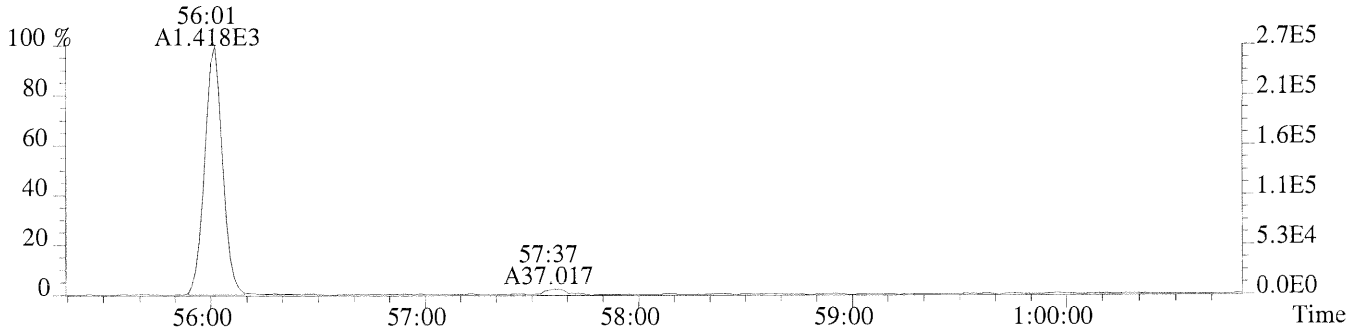


File:U142083 #1-310 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

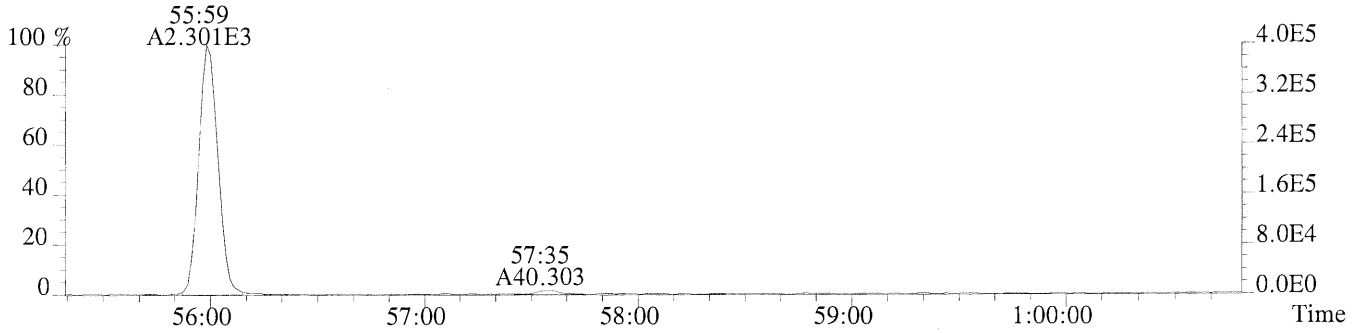
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)



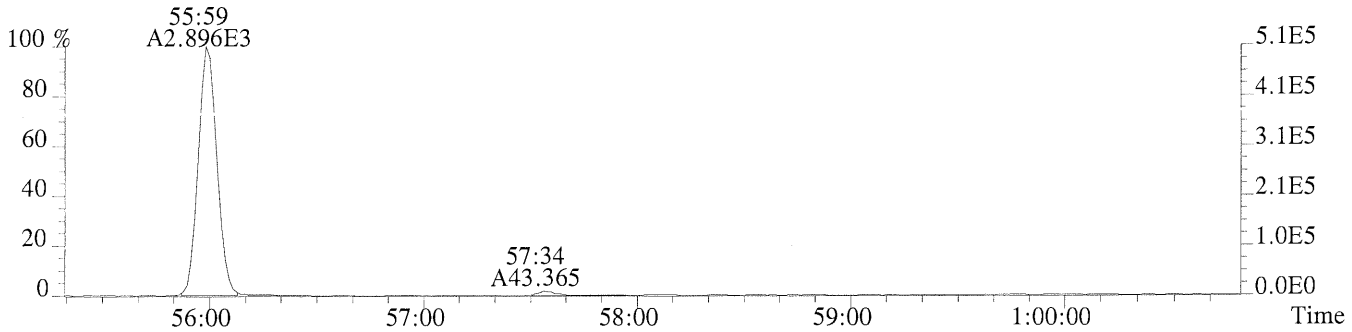
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,996.0,1.00%,F,T)



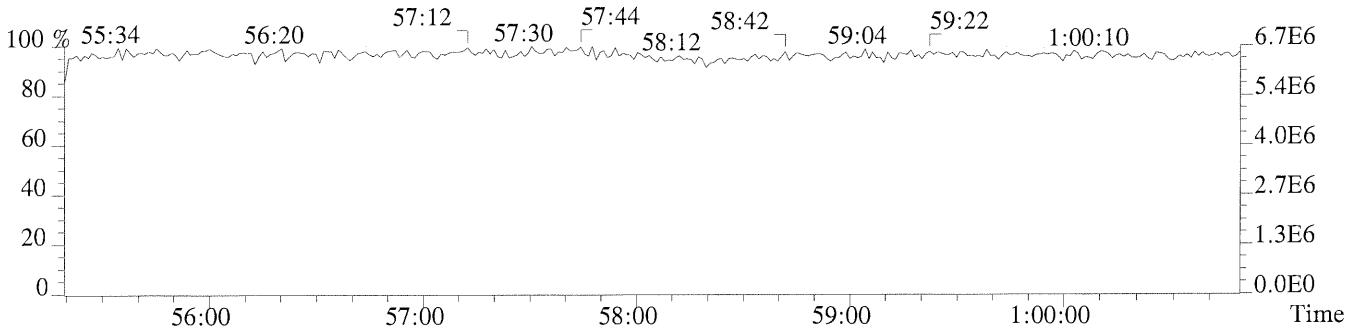
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,708.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,916.0,1.00%,F,T)

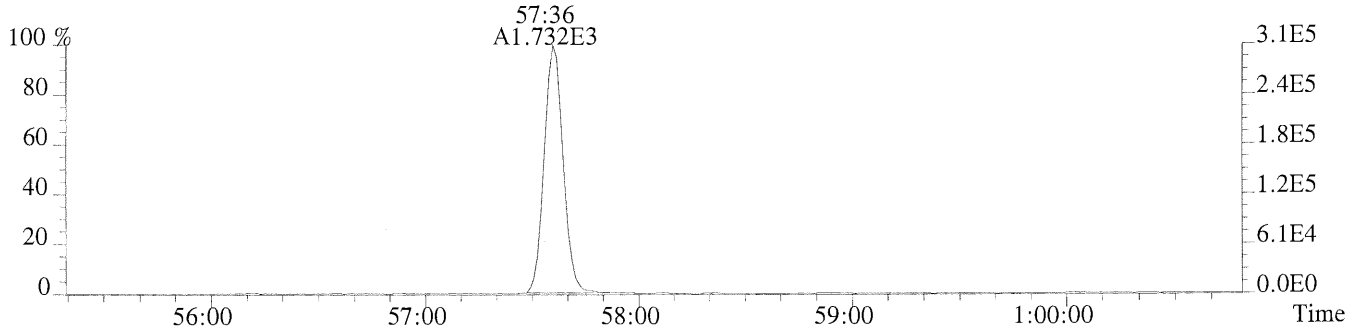


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

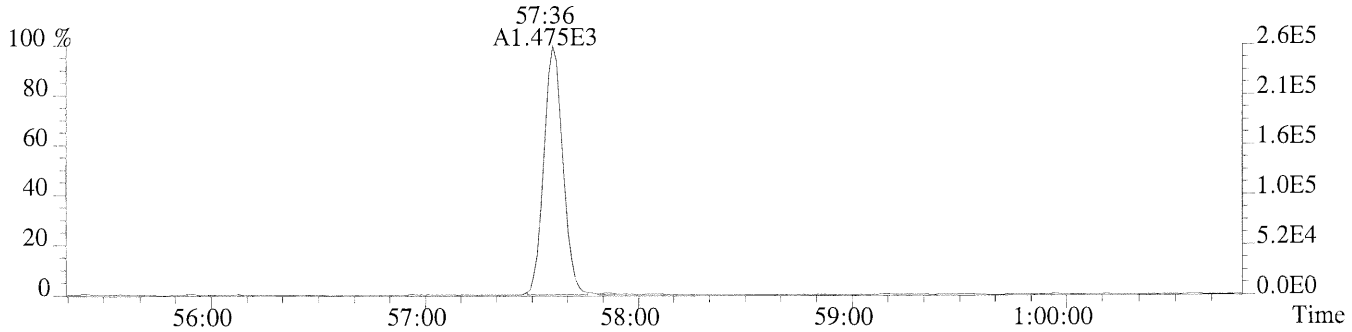


File:U142083 #1-310 Acq:11-NOV-2011 05:48:26 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

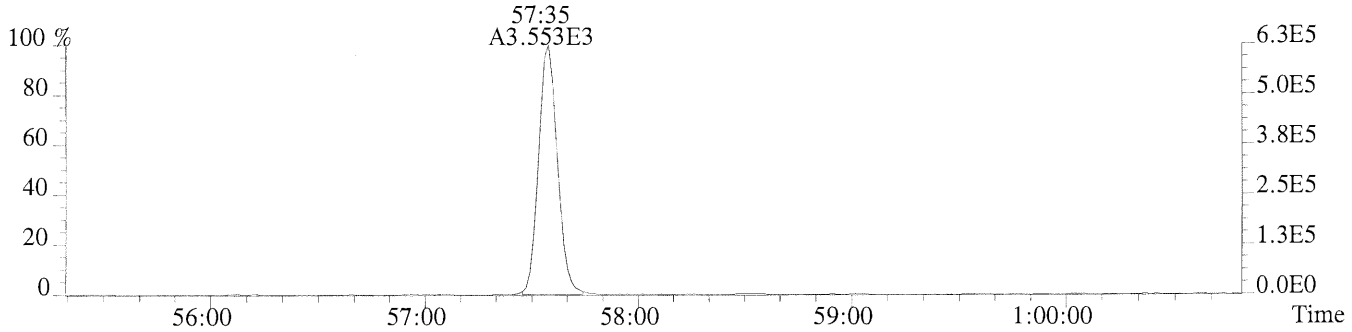
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



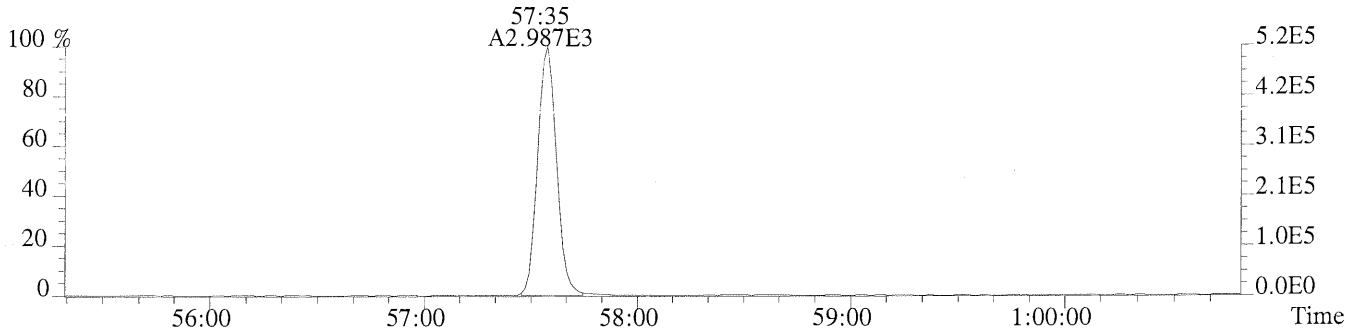
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,768.0,1.00%,F,T)



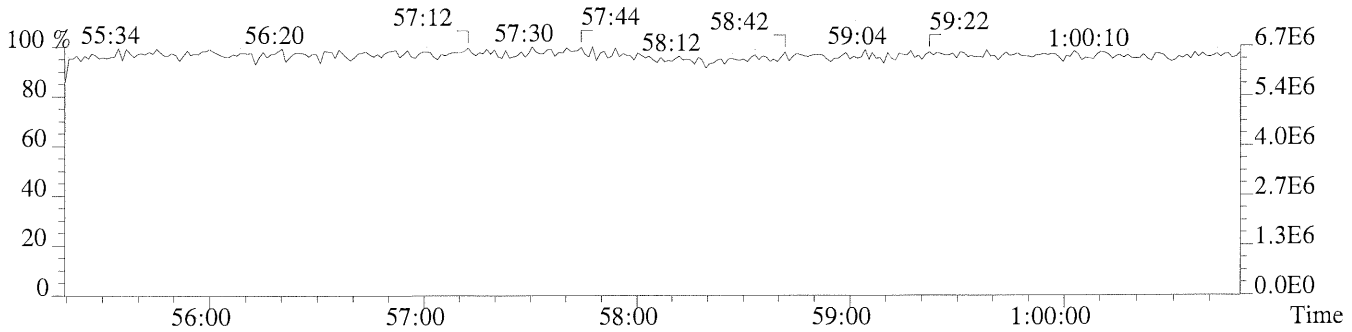
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



RW/CS3 Daily Calibration QC Checklist

Calibration File Name: 0142093

Circle one
Beginning **Ending**

Date: 12NOV11

Method: **1668 WHO** **1668 Total** **1668 (209)** **1668 WHO & TOTAL**

Date 11/15/11	**First Reviewer** Cer

Date 11/19/11	**Second Reviewer**

5DFC
PCDD/PCDF/PCB ANALYTICAL SEQUENCE SUMMARY

Lab Name: Columbia Analytical Services Contract:

Lab Code: TX01411 Case No.: SDG No.:

GC Column: SPB-OCTYL ID: 0.25 (mm) Instrument ID: E-HRMS-01

Init. Calib. Date: 02/23/11

Init. Calib.Times: 09:22

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, AND LABORATORY CONTROL SAMPLES (LCSs) IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
B4-25-1	DCCS-209	U142092	12-NOV-11	06:05:04
B4-25-1	DCCS-209	U142092	12-NOV-11	06:05:04
METHOD BLANK	EQ1100504-01	U142094	12-NOV-11	08:31:16
B4CS-CS2-PCBs	E1101017-005	U142095	12-NOV-11	09:34:39

5DFC
PCDD/PCDF/PCB ANALYTICAL SEQUENCE SUMMARY

Lab Name: Columbia Analytical Services Contract:

Lab Code: TX01411 Case No.: SDG No.:

GC Column: SPB-OCTYL ID: 0.25 (mm) Instrument ID: E-HRMS-01

Init. Calib. Date: 02/23/11

Init. Calib.Times: 09:22

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, AND LABORATORY CONTROL SAMPLES (LCSs) IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CCAL CS3	CCAL CS3	U142093	12-NOV-11	07:18:55
LCS	EQ1100504-02	U142096	12-NOV-11	10:42:55
DLCS	EQ1100504-03	U142097	12-NOV-11	11:51:09

Sample List Report MassLynx 4.1

Sample List: C:\MassLynx\CASHOUSTON.PRO\SampleDB\U1111112.SPL
Last Modified: Saturday, November 12, 2011 08:30:36 Central Standard Time
Printed: Saturday, November 12, 2011 12:13:18 Central Standard Time

Columbia Analytical Services
19408 Park Row
Suite 320
Houston, Texas 77084

Page Position (1, 1)

C: U142093RES/CAL/SURR

	Date	Time	File Name	Sample ID	Client ID	Analyst	Comments	GC Met	Acq Met
1	11/12/11	06:05	U142092	PCB 209 INJECTION	B4-25-1		HRMS Check 06:01	1668EPA	1668EPA
2		07:18	U142093	CCAL CS3	B2-26-1			1668EPA	1668EPA
3		08:31	U142094	EQ1100504-01	MB			1668EPA	1668EPA
4		09:34	U142095	E1101017-005	B4CS-CS2-PCBs		Solvent dilution	1668EPA	1668EPA
5		10:42	U142096	EQ1100504-02	LCS			1668EPA	1668EPA
6		11:51	U142097	EQ1100504-03	DLCS		HRMS Check 13:43	1668EPA	1668EPA
7			---	---	---			1668EPA	1668EPA
8			---	---	---			1668EPA	1668EPA
9			---	---	---			1668EPA	1668EPA
10			---	---	---			1668EPA	1668EPA
11			---	---	---			1668EPA	1668EPA
12			---	---	---			1668EPA	1668EPA
13			---	---	---			1668EPA	1668EPA
14			---	---	---			1668EPA	1668EPA
15			---	---	---			1668EPA	1668EPA
16			---	---	---			1668EPA	1668EPA
17			---	---	---			1668EPA	1668EPA
18			---	---	---			1668EPA	1668EPA
19			---	---	---			---	---
20			---	---	---			---	---
21			---	---	---			TCDFCAS	TCDFCAS
22			---	---	---			1668EPA	1668EPA
23			---	---	---			---	---
24			---	---	---			---	---
25			---	---	---			TCDFCAS	TCDFCAS
26			---	---	---			TCDFCAS	TCDFCAS
27			---	---	---			1668EPA	1668EPA
28			---	---	---			1668EPA	1668EPA
29			---	---	---			8290cas	8290CAS
30			---	---	---			TCDFCAS	TCDFCAS
31			---	---	---			---	---
32			---	---	---			---	---
33	---	---	---	---	---	---	---	---	---
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37	---	---	---	---	---	---	---	---	---
38	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---

LL 11/14/11

Reviewed By: cel
11/18/11

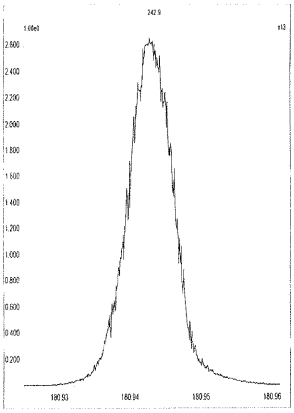
084

Experiment Calibration Report **MassLynx 4.1**

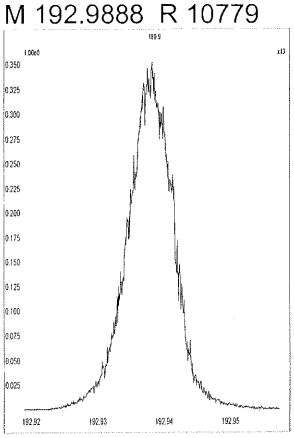
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, November 12, 2011 06:01:47 Central Standard Time

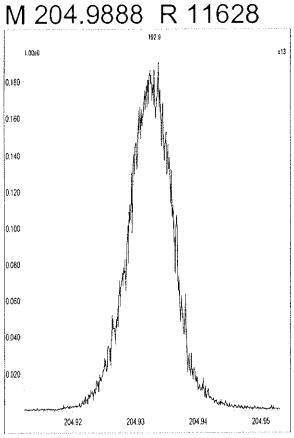
M 180.9888 R 11790



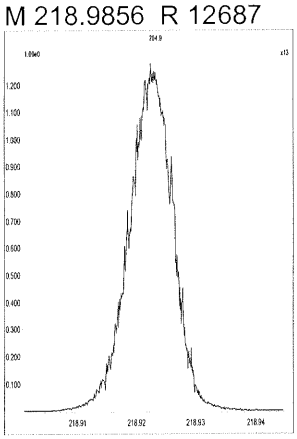
M 192.9888 R 10779



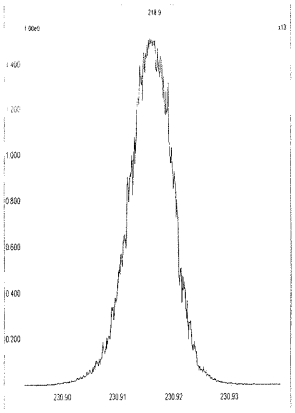
M 204.9888 R 11628



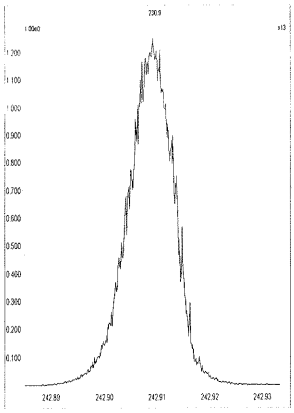
M 218.9856 R 12687



M 230.9856 R 12436



M 242.9856 R 11573

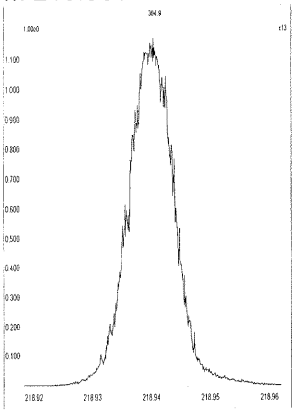


Experiment Calibration Report **MassLynx 4.1**

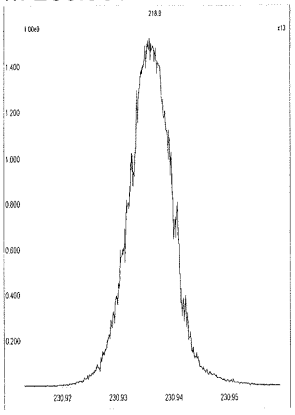
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, November 12, 2011 06:02:13 Central Standard Time

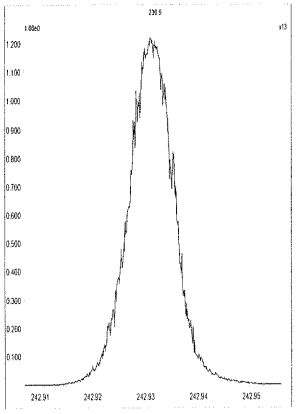
M 218.9856 R 12313



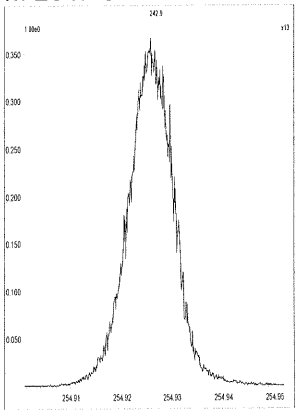
M 230.9856 R 12562



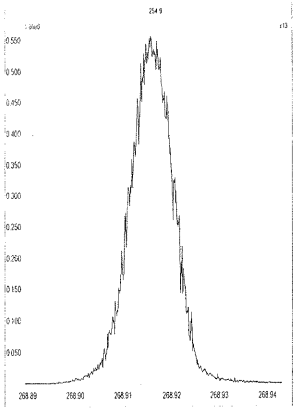
M 242.9856 R 11848



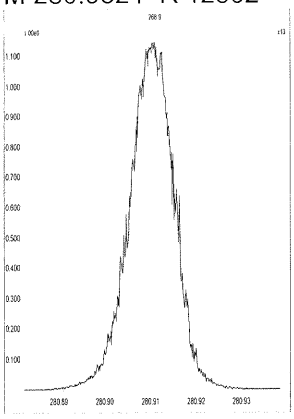
M 254.9856 R 12196



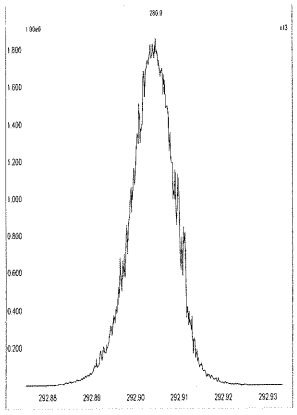
M 268.9824 R 13508



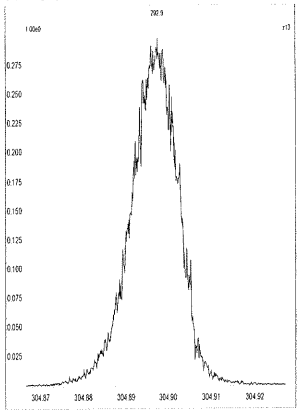
M 280.9824 R 12562



M 292.9824 R 11734



M 304.9824 R 11793

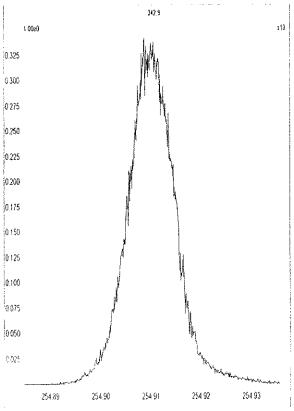


Experiment Calibration Report **MassLynx 4.1**

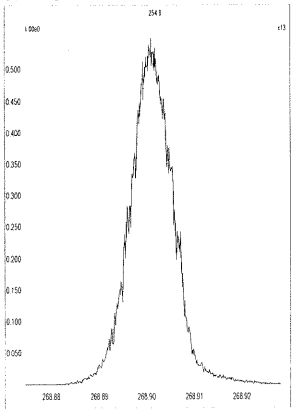
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, November 12, 2011 06:02:38 Central Standard Time

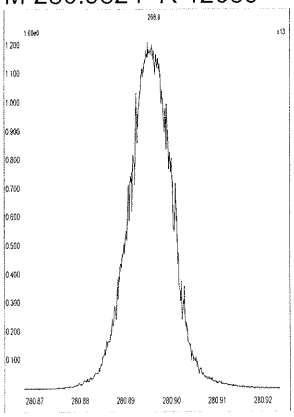
M 254.9856 R 11062



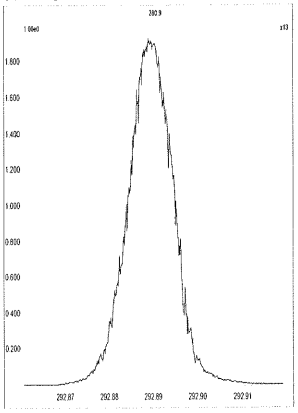
M 268.9824 R 12137



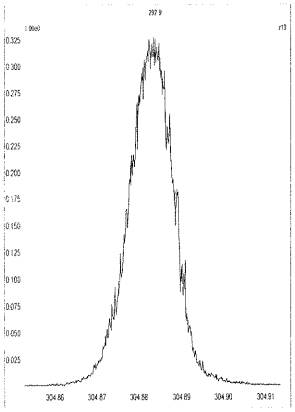
M 280.9824 R 12689



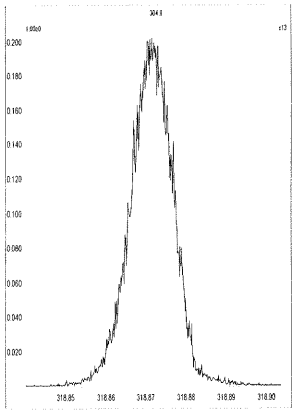
M 292.9824 R 12074



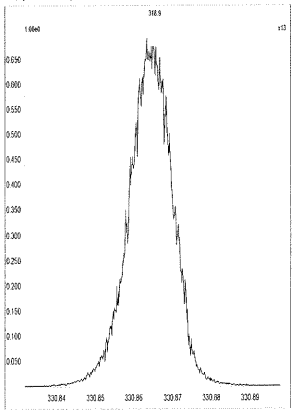
M 304.9824 R 12195



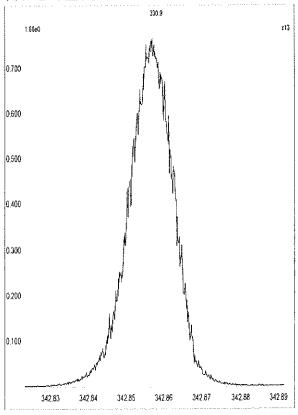
M 318.9792 R 13156



M 330.9792 R 12434



M 342.9792 R 12141

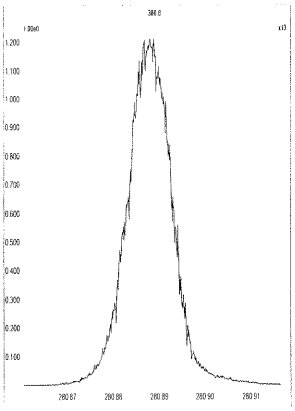


Experiment Calibration Report **MassLynx 4.1**

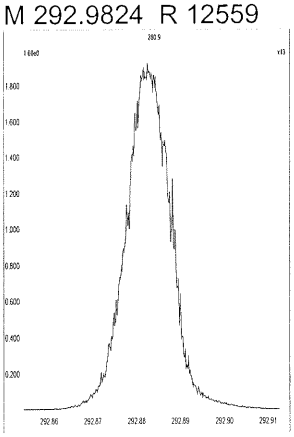
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, November 12, 2011 06:03:06 Central Standard Time

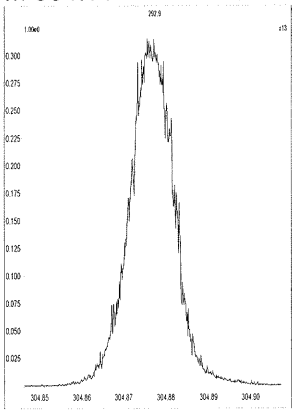
M 280.9824 R 12375



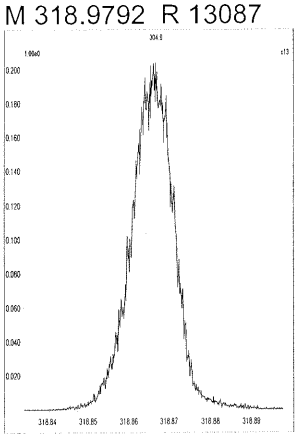
M 292.9824 R 12559



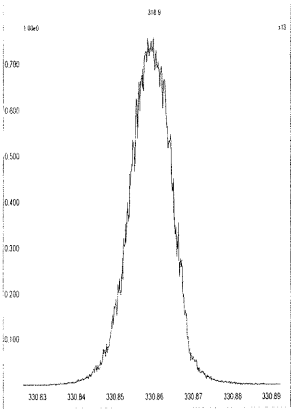
M 304.9824 R 12019



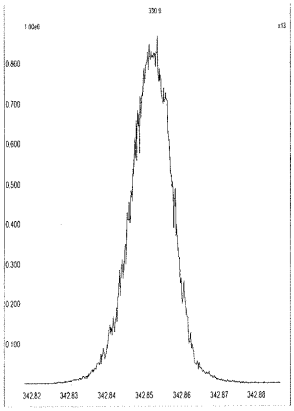
M 318.9792 R 13087



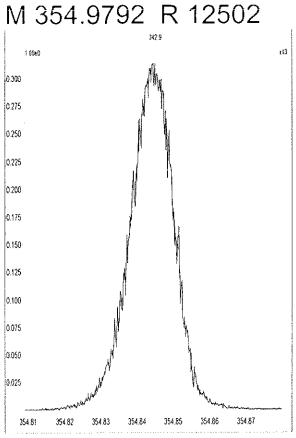
M 330.9792 R 13159



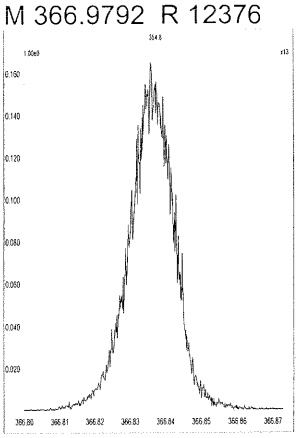
M 342.9792 R 12625



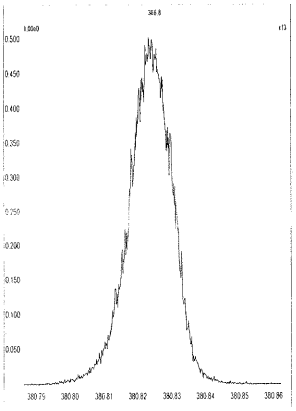
M 354.9792 R 12502



M 366.9792 R 12376



M 380.9760 R 12258

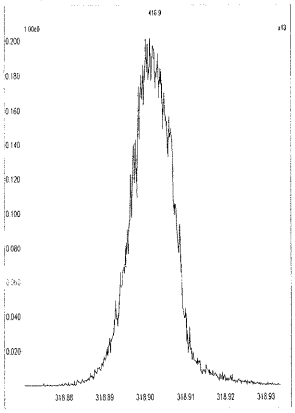


Experiment Calibration Report **MassLynx 4.1**

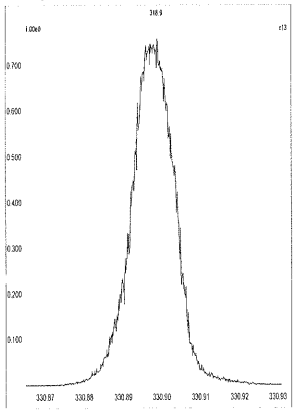
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, November 12, 2011 06:03:34 Central Standard Time

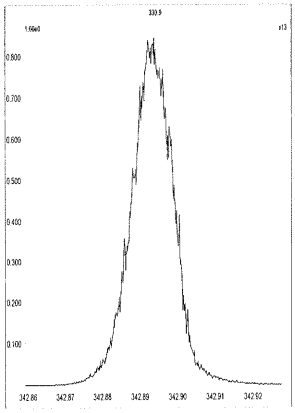
M 318.9792 R 12437



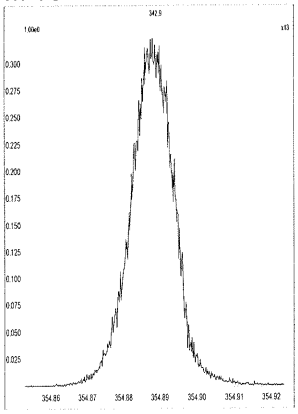
M 330.9792 R 12884



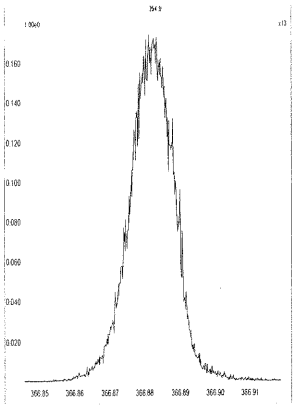
M 342.9792 R 12887



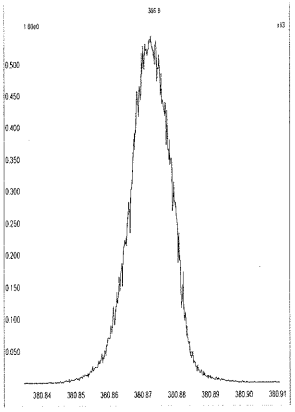
M 354.9792 R 12314



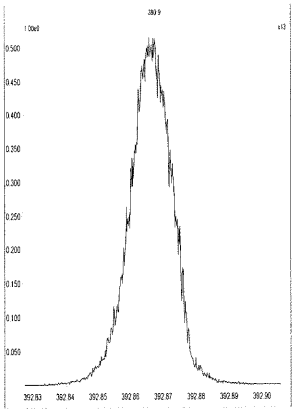
M 366.9792 R 12137



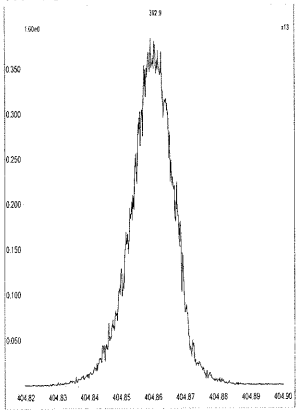
M 380.9760 R 13158



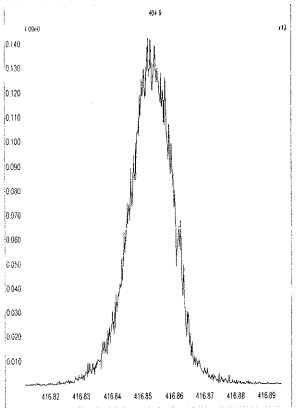
M 392.9760 R 12818



M 404.9760 R 12377



M 416.9760 R 12018

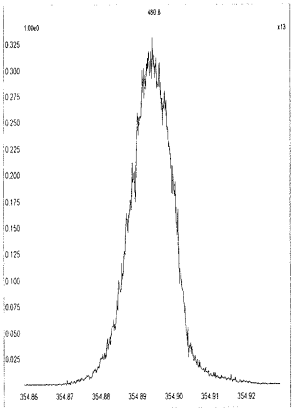


Experiment Calibration Report **MassLynx 4.1**

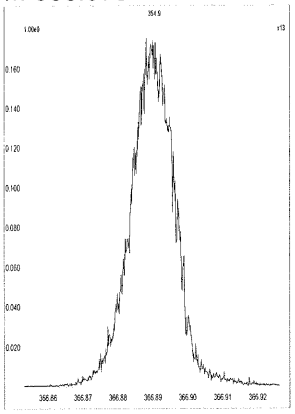
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Saturday, November 12, 2011 06:04:02 Central Standard Time

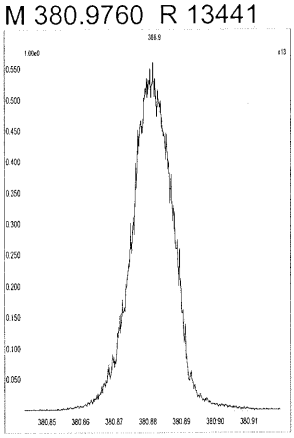
M 354.9792 R 12194



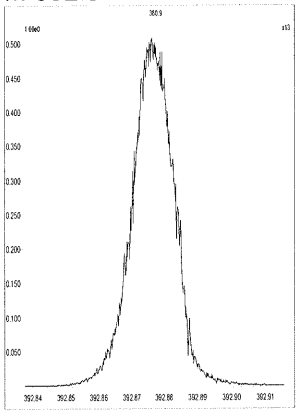
M 366.9792 R 13023



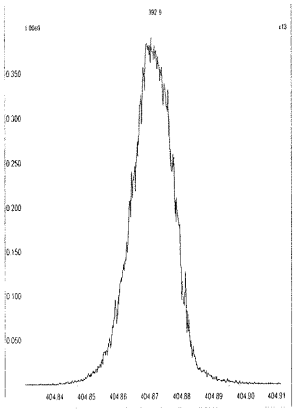
M 380.9760 R 13441



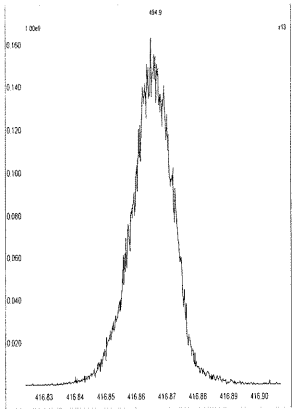
M 392.9760 R 13226



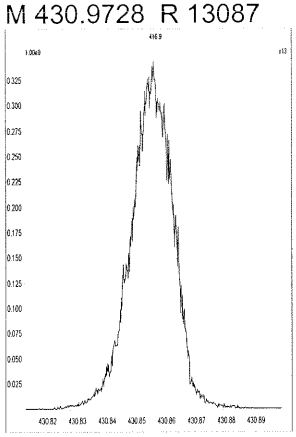
M 404.9760 R 13017



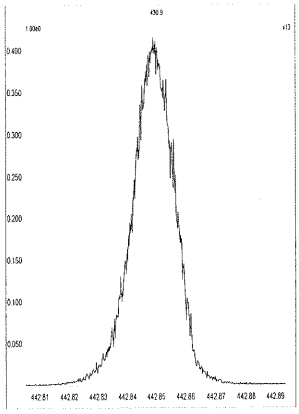
M 416.9760 R 12886



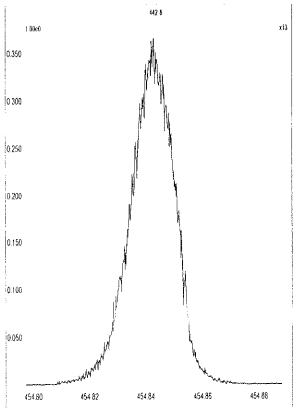
M 430.9728 R 13087



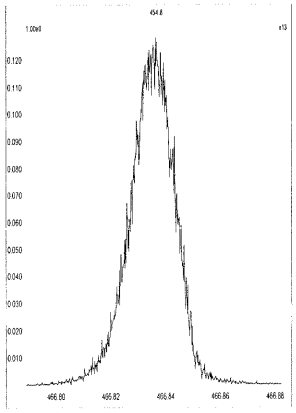
M 442.9728 R 12821



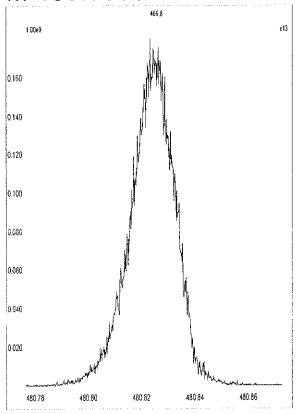
M 454.9728 R 12754



M 466.9728 R 12313



M 480.9696 R 12500

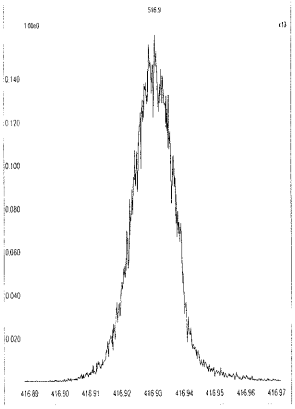


Experiment Calibration Report **MassLynx 4.1**

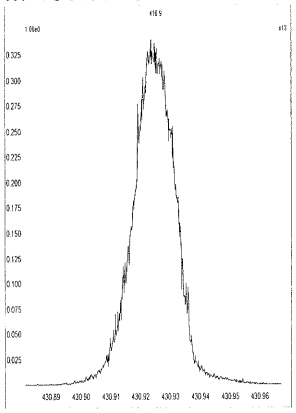
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

Printed: Saturday, November 12, 2011 06:04:27 Central Standard Time

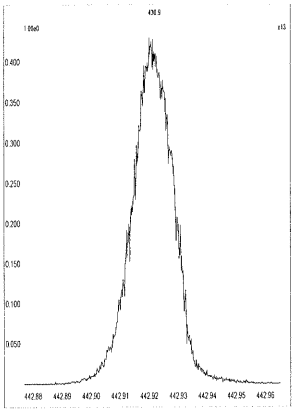
M 416.9760 R 11679



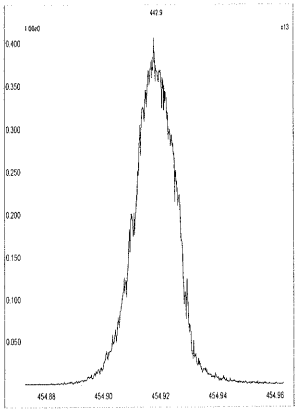
M 430.9728 R 13227



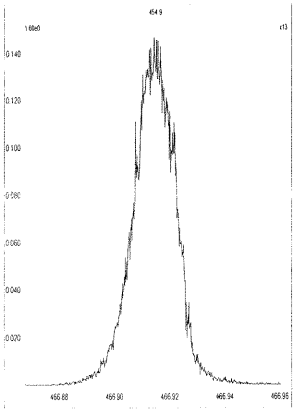
M 442.9728 R 13226



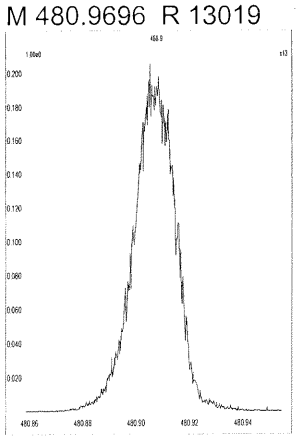
M 454.9728 R 13159



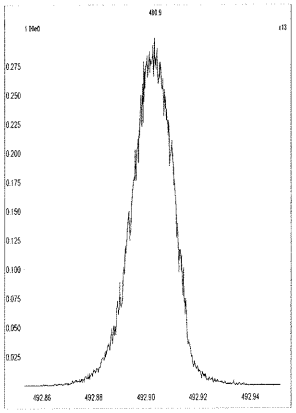
M 466.9728 R 12953



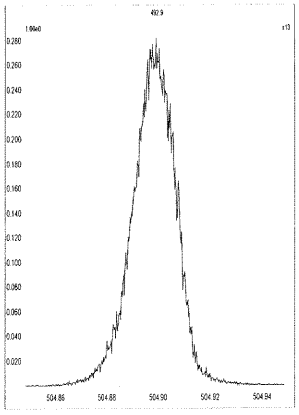
M 480.9696 R 13019



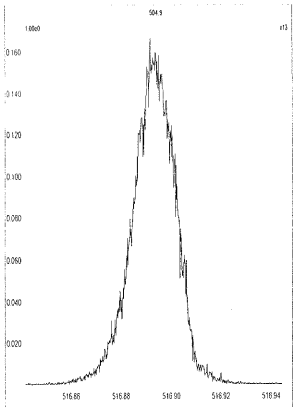
M 492.9696 R 12883



M 504.9696 R 13368



M 516.9697 R 13295

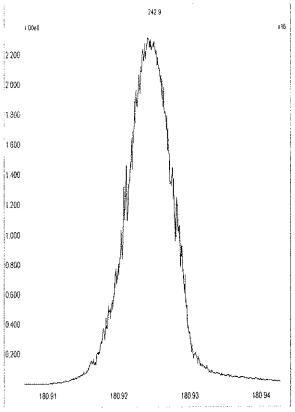


Experiment Calibration Report **MassLynx 4.1**

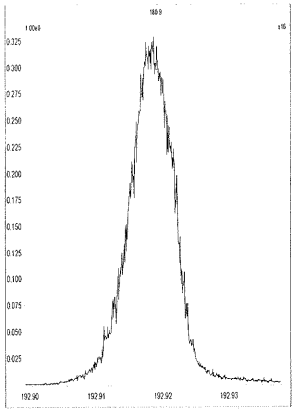
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, November 12, 2011 13:43:50 Central Standard Time

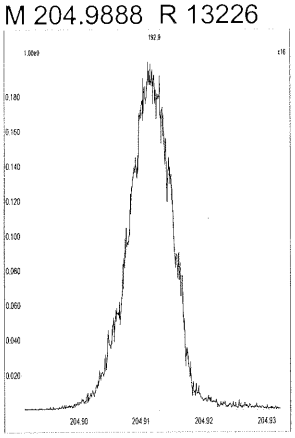
M 180.9888 R 11108



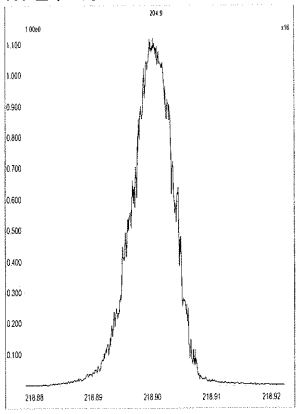
M 192.9888 R 12022



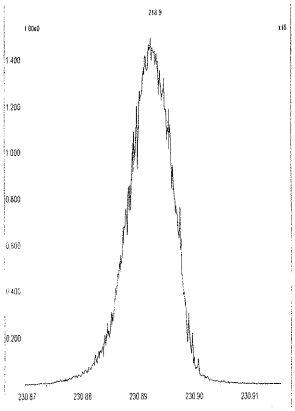
M 204.9888 R 13226



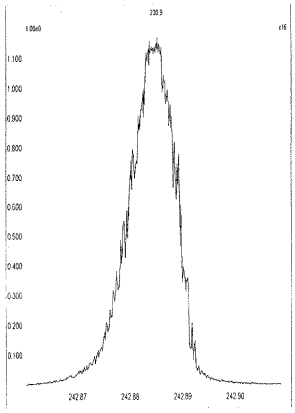
M 218.9856 R 13369



M 230.9856 R 12377



M 242.9856 R 11850

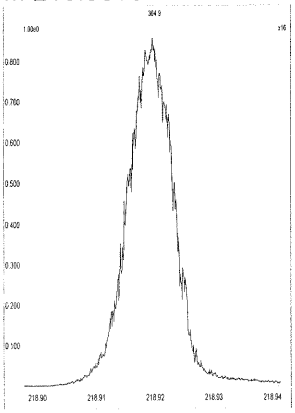


Experiment Calibration Report **MassLynx 4.1**

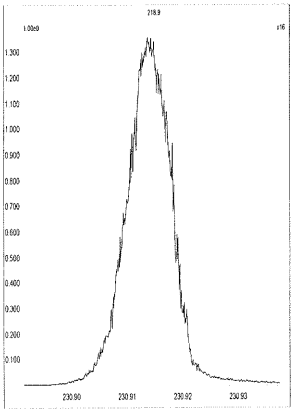
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, November 12, 2011 13:44:59 Central Standard Time

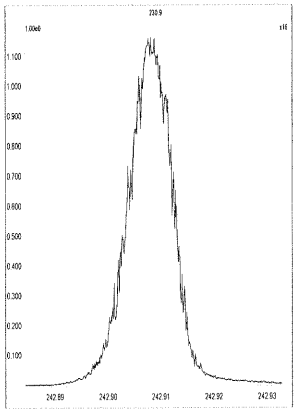
M 218.9856 R 11625



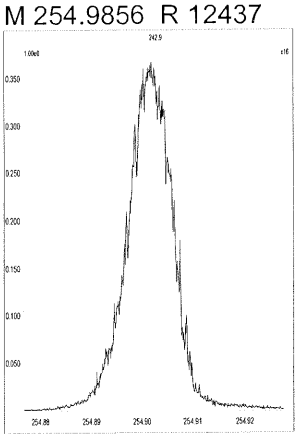
M 230.9856 R 12436



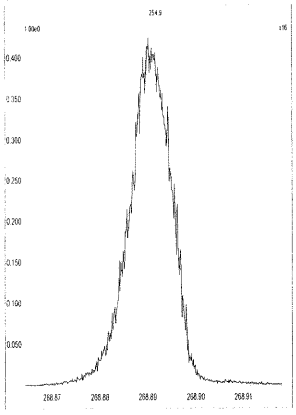
M 242.9856 R 12194



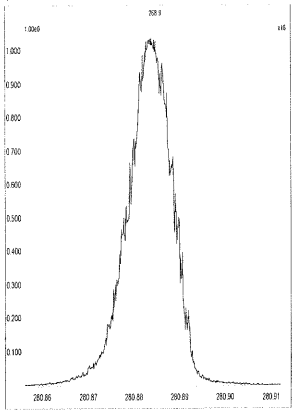
M 254.9856 R 12437



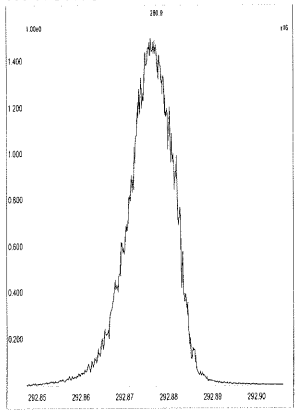
M 268.9824 R 13090



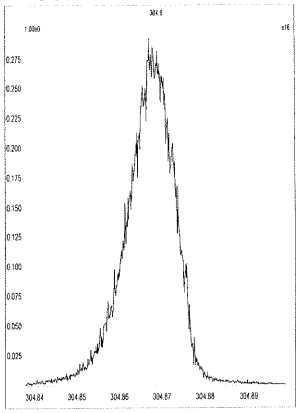
M 280.9824 R 12695



M 292.9824 R 12138



M 304.9824 R 11110

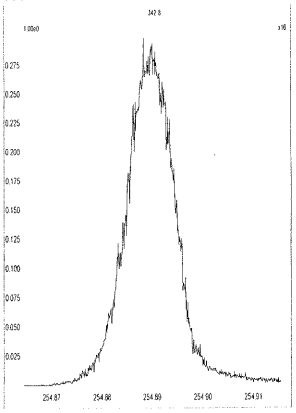


Experiment Calibration Report **MassLynx 4.1**

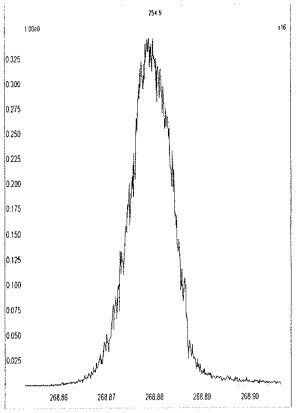
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, November 12, 2011 13:45:49 Central Standard Time

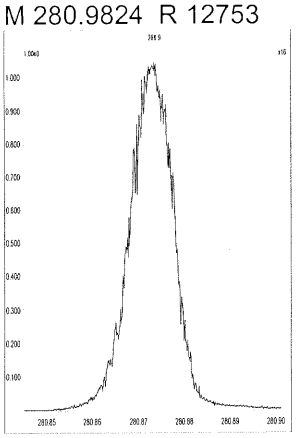
M 254.9856 R 11363



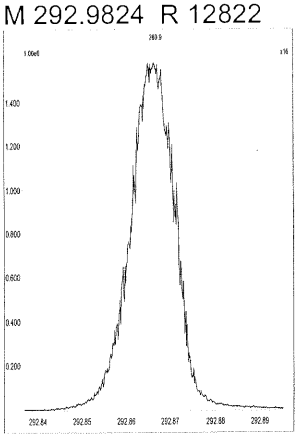
M 268.9824 R 12821



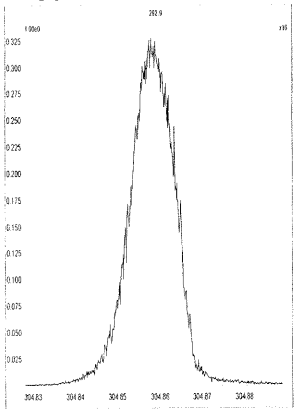
M 280.9824 R 12753



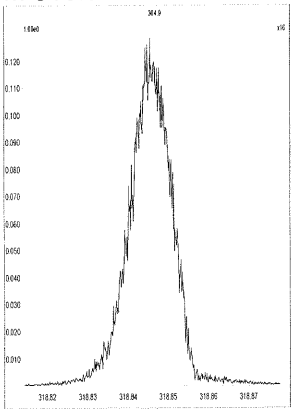
M 292.9824 R 12822



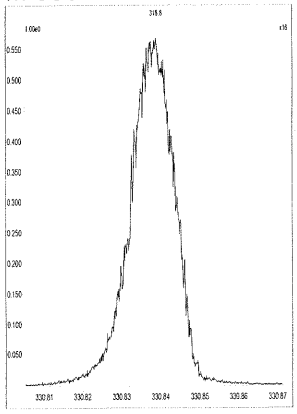
M 304.9824 R 12952



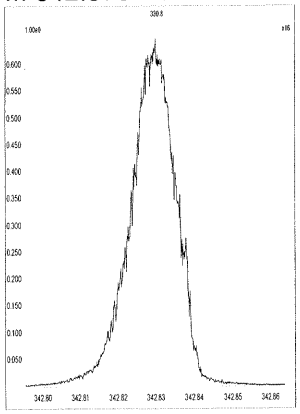
M 318.9792 R 13092



M 330.9792 R 12316



M 342.9792 R 12313

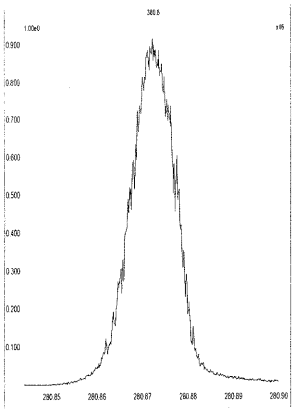


Experiment Calibration Report **MassLynx 4.1**

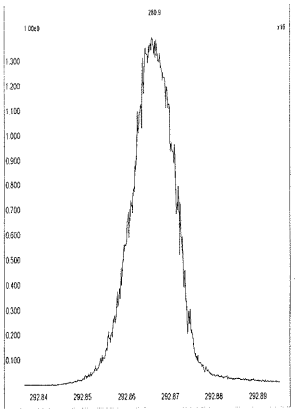
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, November 12, 2011 13:46:50 Central Standard Time

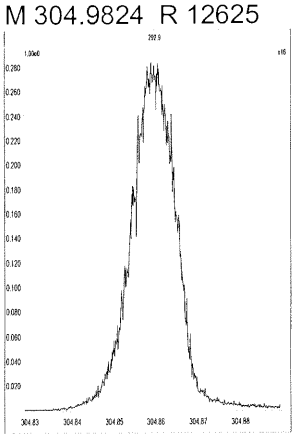
M 280.9824 R 11741



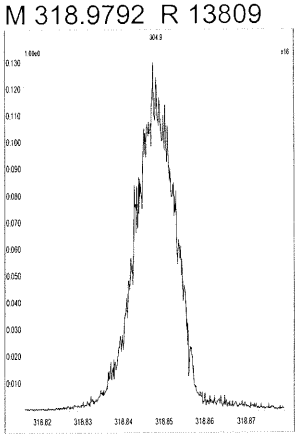
M 292.9824 R 12079



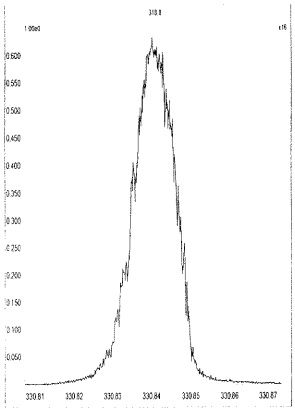
M 304.9824 R 12625



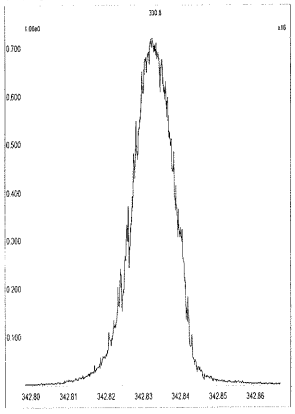
M 318.9792 R 13809



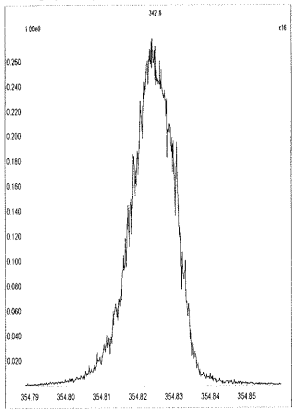
M 330.9792 R 13228



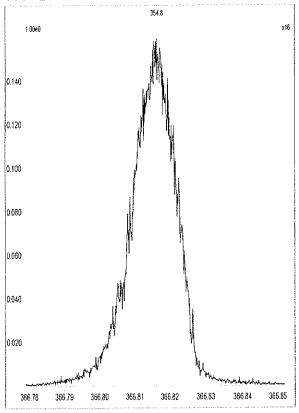
M 342.9792 R 12824



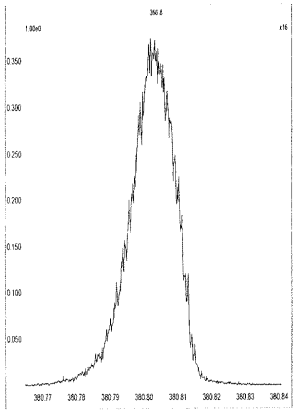
M 354.9792 R 12378



M 366.9792 R 11961



M 380.9760 R 11846

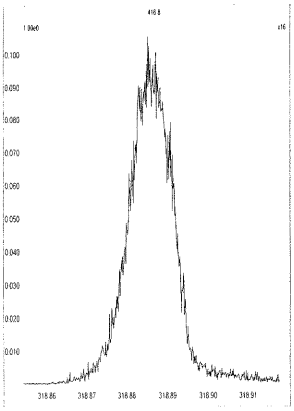


Experiment Calibration Report **MassLynx 4.1**

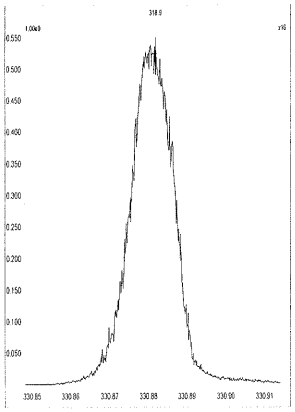
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, November 12, 2011 13:47:47 Central Standard Time

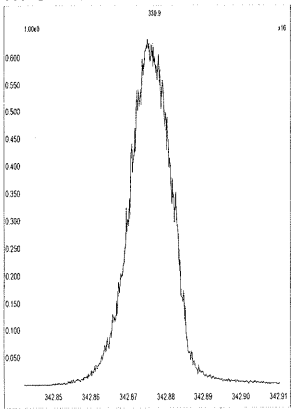
M 318.9792 R 12891



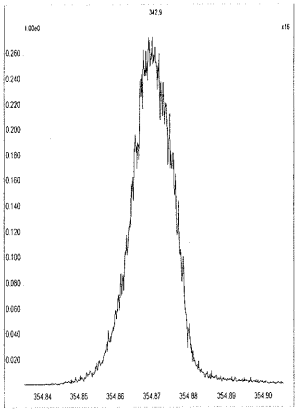
M 330.9792 R 12502



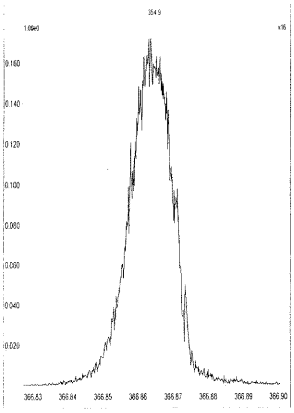
M 342.9792 R 12755



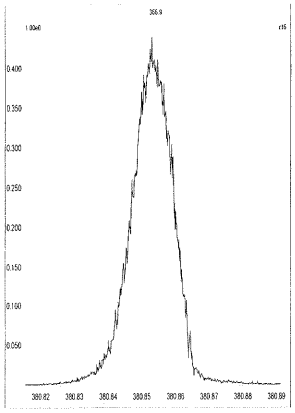
M 354.9792 R 13024



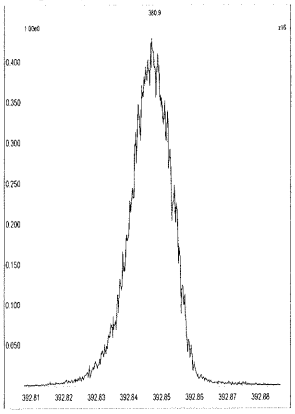
M 366.9792 R 13228



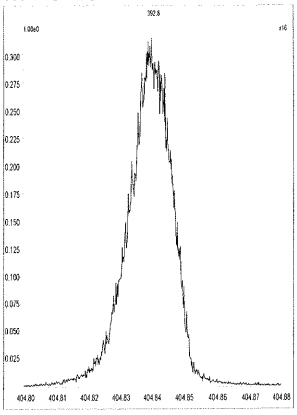
M 380.9760 R 13440



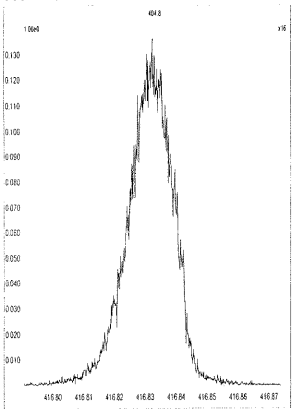
M 392.9760 R 12956



M 404.9760 R 12954



M 416.9760 R 12314

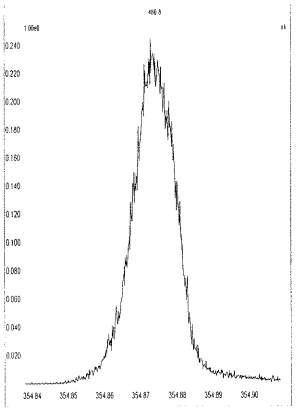


Experiment Calibration Report **MassLynx 4.1**

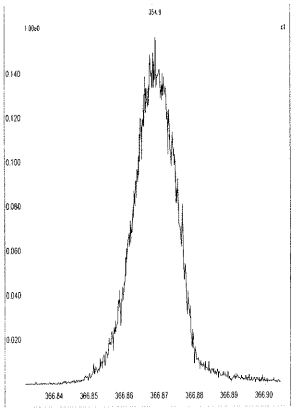
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Saturday, November 12, 2011 13:54:26 Central Standard Time

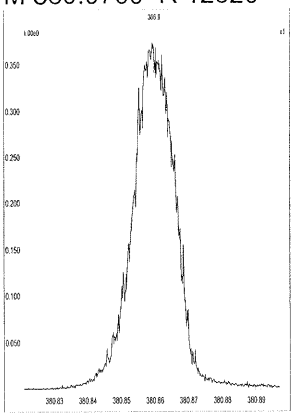
M 354.9792 R 12624



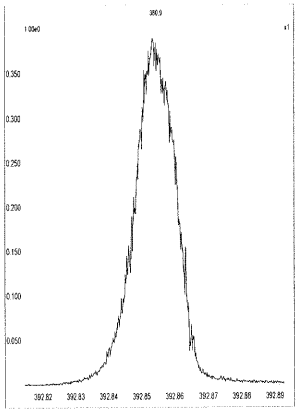
M 366.9792 R 13229



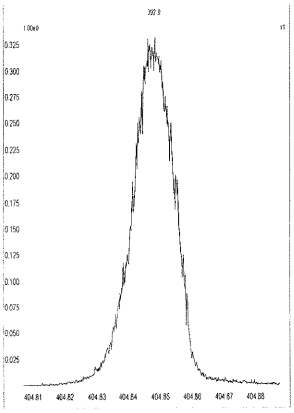
M 380.9760 R 12820



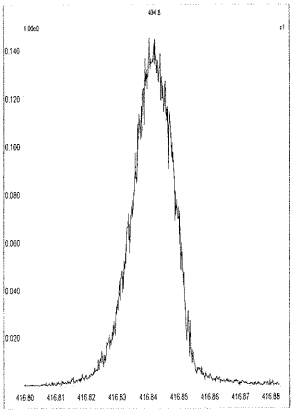
M 392.9760 R 13366



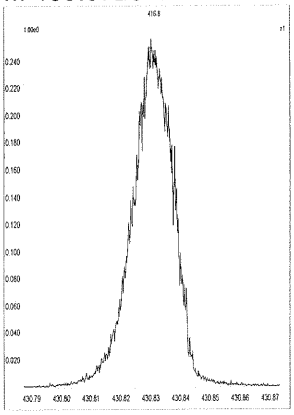
M 404.9760 R 13228



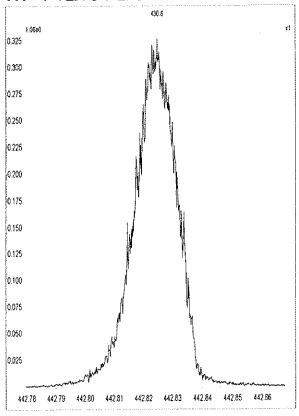
M 416.9760 R 13368



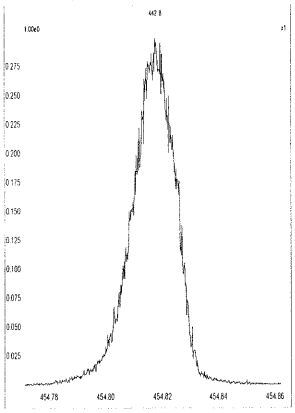
M 430.9728 R 13515



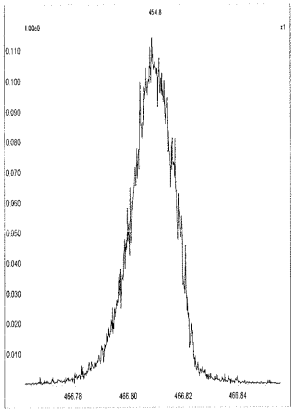
M 442.9728 R 12886



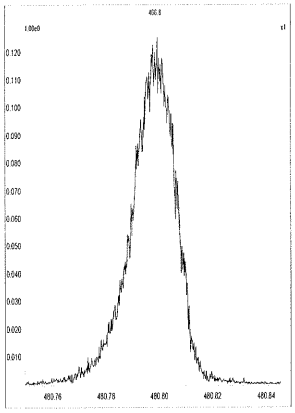
M 454.9728 R 12624



M 466.9728 R 12255



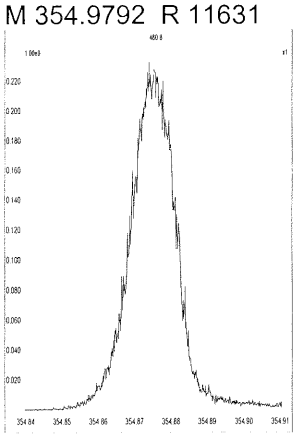
M 480.9696 R 11736



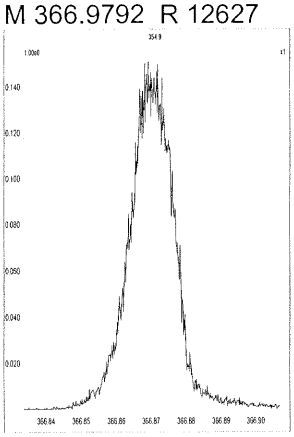
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Saturday, November 12, 2011 13:55:24 Central Standard Time

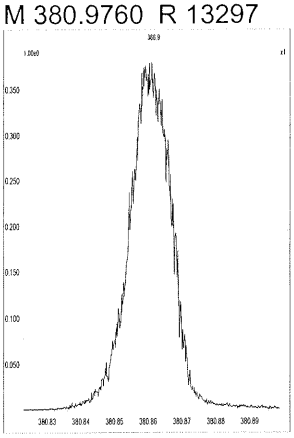
M 354.9792 R 11631



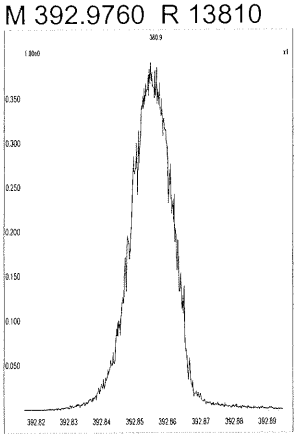
M 366.9792 R 12627



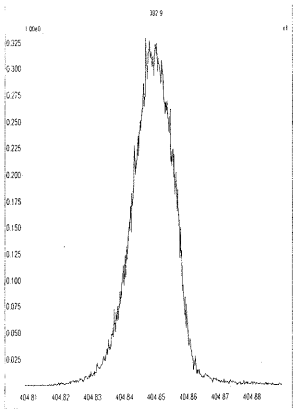
M 380.9760 R 13297



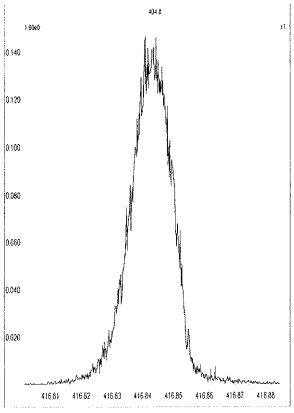
M 392.9760 R 13810



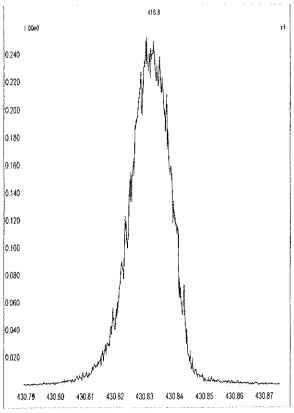
M 404.9760 R 12954



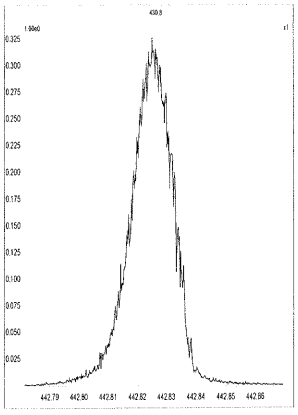
M 416.9760 R 13660



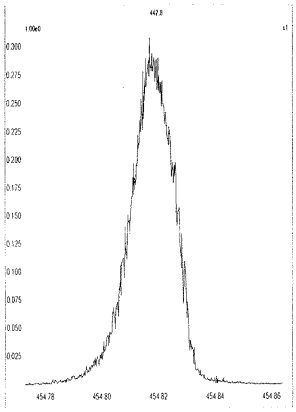
M 430.9728 R 13229



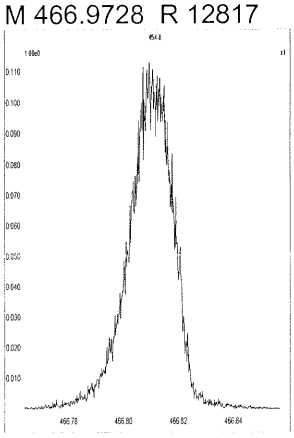
M 442.9728 R 14040



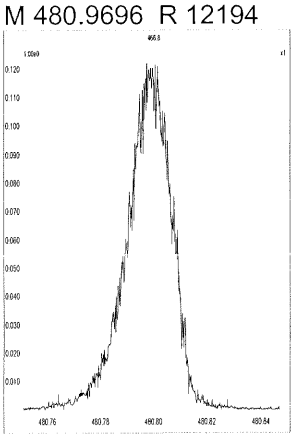
M 454.9728 R 12253



M 466.9728 R 12817



M 480.9696 R 12194



DCCS2091

METHOD 1668
DILUTED COMBINED 209 CONGENER SOLUTION (DCCS-209)

CLIENT ID:

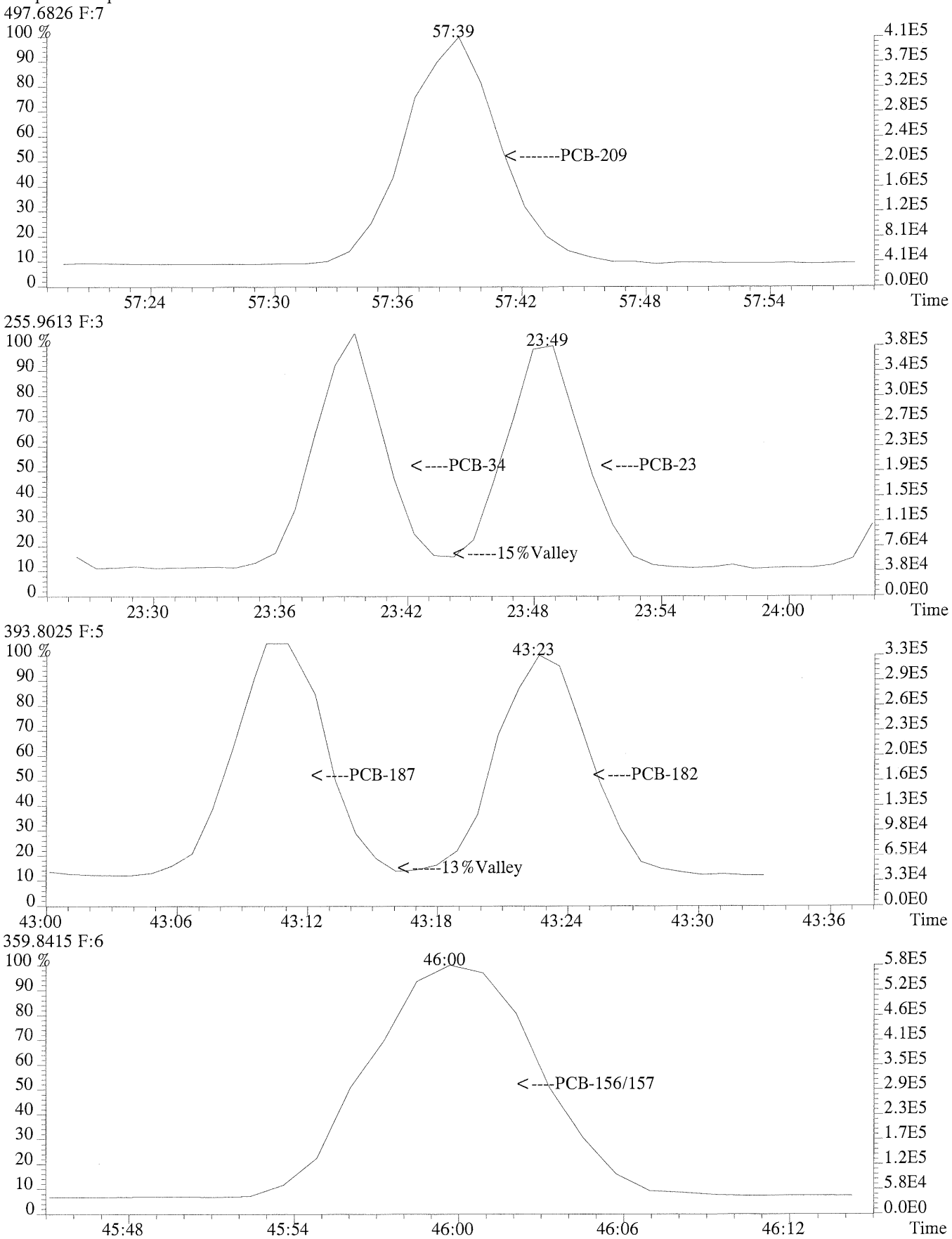
DCCS-209

Lab Name: COLUMBIA ANALYTICAL SERVICES
Lab Code: CAS Case No.: _____ SDG No.:
GC Column: SPB-Octyl ID: 0.25 (mm) Lab File ID: U142092
Date Analyzed: 12-NOV-2011
Time Analyzed: 06:05:04

Retention Time for PCB 209:	(>55 min)	57:39
% Valley between PCB 34 and PCB 23:	(<40%)	15
% Valley between PCB 187 and PCB 182:	(<40%)	13
Seconds of coelution between PCB 156 and PCB 157:	(<2 sec)	0

Reference: Section 6.9.1.1 Method 1668

File:U142092 #1-310 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
B4-25-1

Run #8 Filename U142092 Samp: 1 Inj: 1 Acquired: 12-NOV-11 06:05:04
Processed: 15-NOV-11 14:20:06 Sample ID: DCCS-209

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	n	1.0712
2	1	PCB-2	15:25	2.531e+03	8.200e+02	3.09	y	n	1.0770
3	1	PCB-3	NotFnd	*	*	*	n	n	1.0363
4	1	PCB-4	NotFnd	*	*	*	n	n	1.1136
5	1	PCB-10	16:03	1.966e+03	1.265e+03	1.55	y	n	1.5736
6	2	PCB-9	17:55	1.609e+03	1.074e+03	1.50	y	n	1.3066
7	2	PCB-7	18:04	1.754e+03	1.284e+03	1.37	y	n	1.4795
8	2	PCB-6	18:19	1.632e+03	1.115e+03	1.46	y	n	1.3380
9	2	PCB-5	18:38	1.664e+03	1.079e+03	1.54	y	n	1.3355
10	2	PCB-8	18:46	1.784e+03	1.155e+03	1.54	y	n	1.4312
11	2	PCB-14	20:25	1.567e+03	1.104e+03	1.42	y	n	1.3008
12	2	PCB-11	21:16	1.690e+03	9.795e+02	1.73	y	n	1.3001
13	2	PCB-12/13	21:36	3.317e+03	2.093e+03	1.58	y	n	1.3176
14	2	PCB-15	NotFnd	*	*	*	n	n	0.9770
15	2	PCB-19	NotFnd	*	*	*	n	n	1.0009
16	2	PCB-18/30	20:56	2.288e+03	2.318e+03	0.99	y	n	1.1735
17	2	PCB-17	21:22	1.001e+03	9.635e+02	1.04	y	n	1.0011
18	2	PCB-27	21:37	1.321e+03	1.293e+03	1.02	y	n	1.3320
19	2	PCB-24	21:44	1.363e+03	1.314e+03	1.04	y	n	1.3644
20	2	PCB-16	21:51	8.890e+02	8.633e+02	1.03	y	n	0.8929
21	2	PCB-32	22:22	1.417e+03	1.391e+03	1.02	y	n	1.4307
22	3	PCB-34	23:40	1.462e+03	1.453e+03	1.01	y	n	1.4854
23	3	PCB-23	23:49	1.546e+03	1.504e+03	1.03	y	n	1.5542
24	3	PCB-26/29	24:08	3.071e+03	2.930e+03	1.05	y	n	1.5289
25	3	PCB-25	24:21	1.591e+03	1.554e+03	1.02	y	n	1.6023
26	3	PCB-31	24:41	1.518e+03	1.561e+03	0.97	y	n	1.5686
27	3	PCB-20/28	24:59	3.041e+03	2.937e+03	1.04	y	n	1.5229
28	3	PCB-21/33	25:10	2.906e+03	2.730e+03	1.06	y	n	1.4358
29	3	PCB-22	25:37	1.485e+03	1.484e+03	1.00	y	n	1.5129
30	3	PCB-36	27:12	1.491e+03	1.429e+03	1.04	y	n	1.4882
31	3	PCB-39	27:33	1.617e+03	1.598e+03	1.01	y	n	1.6385
32	3	PCB-38	28:08	1.303e+03	1.313e+03	0.99	y	n	1.3328
33	3	PCB-35	28:36	1.324e+03	1.402e+03	0.94	y	n	1.3892
34	3	PCB-37	NotFnd	*	*	*	n	n	1.0888
35	2	PCB-54	NotFnd	*	*	*	n	n	1.0020
36	3	PCB-50/53	24:24	3.646e+03	4.803e+03	0.76	y	n	1.2262
37	3	PCB-45/51	25:08	2.935e+03	3.952e+03	0.74	y	y	0.9994
38	3	PCB-46	25:23	1.495e+03	1.901e+03	0.79	y	n	0.9857
39	3	PCB-52	26:49	1.822e+03	2.448e+03	0.74	y	y	1.2392
40	3	PCB-43/73	26:58	3.911e+03	5.305e+03	0.74	y	y	1.3375
41	3	PCB-49/69	27:16	4.008e+03	5.347e+03	0.75	y	n	1.3576
42	3	PCB-48	27:36	1.871e+03	2.504e+03	0.75	y	n	1.2697
43	3	PCB-44/47/65	27:51	5.780e+03	7.723e+03	0.75	y	n	1.3064
44	3	PCB-59/62/75	28:09	7.013e+03	9.159e+03	0.77	y	n	1.5646
45	3	PCB-42	28:21	1.617e+03	2.171e+03	0.74	y	n	1.0994
46	3	PCB-40/41/71	28:50	5.266e+03	7.104e+03	0.74	y	y	1.1968
47	3	PCB-64	29:04	2.348e+03	3.155e+03	0.74	y	n	1.5973
48	3	PCB-72	29:55	2.393e+03	3.108e+03	0.77	y	n	1.5966
49	3	PCB-68	30:12	2.616e+03	3.342e+03	0.78	y	n	1.7294
50	3	PCB-57	30:37	2.224e+03	2.942e+03	0.76	y	n	1.4992

51	3	PCB-58	30:51	2.325e+03	3.154e+03	0.74	y	n	1.5901
52	3	PCB-67	31:02	2.375e+03	3.118e+03	0.76	y	n	1.5941
53	3	PCB-63	31:18	2.206e+03	2.941e+03	0.75	y	n	1.4939
54	3	PCB-61/70/74/76	31:38	8.974e+03	1.186e+04	0.76	y	y	1.5121
55	3	PCB-66	31:58	2.153e+03	2.720e+03	0.79	y	n	1.4143
56	3	PCB-55	32:08	2.066e+03	2.762e+03	0.75	y	n	1.4012
57	4	PCB-56	32:38	2.151e+03	2.773e+03	0.78	y	n	1.4291
58	4	PCB-60	32:52	2.142e+03	2.835e+03	0.76	y	n	1.4446
59	4	PCB-80	33:16	2.313e+03	2.830e+03	0.82	y	n	1.4927
60	4	PCB-79	34:48	2.043e+03	2.682e+03	0.76	y	n	1.3715
61	4	PCB-78	35:22	1.900e+03	2.390e+03	0.80	y	n	1.2451
62	4	PCB-81	NotFnd	*	*	*	n	n	1.0336
63	4	PCB-77	NotFnd	*	*	*	n	n	0.9953
64	3	PCB-104	NotFnd	*	*	*	n	n	1.0300
65	3	PCB-96	28:08	2.419e+03	1.546e+03	1.57	y	n	1.1381
66	3	PCB-103	30:05	2.034e+03	1.239e+03	1.64	y	n	0.9394
67	3	PCB-94	30:19	1.809e+03	1.115e+03	1.62	y	n	0.8395
68	3	PCB-95	30:45	1.864e+03	1.205e+03	1.55	y	n	0.8809
69	3	PCB-93/100	30:59	3.806e+03	2.471e+03	1.54	y	n	0.9010
70	3	PCB-98/102	31:08	3.757e+03	2.366e+03	1.59	y	n	0.8787
71	3	PCB-88/91	31:37	3.638e+03	2.287e+03	1.59	y	y	0.8504
72	3	PCB-84	31:51	1.586e+03	1.011e+03	1.57	y	n	0.7456
73	3	PCB-89	32:20	1.456e+03	8.615e+02	1.69	y	n	0.6652
74	4	PCB-121	32:45	2.986e+03	1.828e+03	1.63	y	n	1.3818
75	4	PCB-92	33:09	2.055e+03	1.258e+03	1.63	y	n	0.9511
76	4	PCB-90/101/113	33:42	6.996e+03	4.515e+03	1.55	y	n	1.1014
77	4	PCB-83/99	34:18	4.388e+03	2.629e+03	1.67	y	y	1.0070
78	4	PCB-112	34:25	2.679e+03	1.788e+03	1.50	y	y	1.2824
79	4	PCB-86/87/97/109/119/125	34:47	1.445e+04	9.157e+03	1.58	y	y	1.1292
80	4	PCB-117	35:27	2.577e+03	1.753e+03	1.47	y	y	1.2430
81	4	PCB-85/116	35:31	4.741e+03	3.062e+03	1.55	y	y	1.1198
82	4	PCB-110/115	35:43	5.500e+03	3.624e+03	1.52	y	y	1.3095
83	4	PCB-82	36:01	1.699e+03	1.093e+03	1.56	y	n	0.8014
84	4	PCB-111	36:25	2.927e+03	1.817e+03	1.61	y	n	1.3617
85	4	PCB-120	36:52	2.681e+03	1.767e+03	1.52	y	n	1.2766
86	5	PCB-108/124	38:01	4.614e+03	2.888e+03	1.60	y	n	1.0767
87	5	PCB-107	38:16	2.646e+03	1.563e+03	1.69	y	n	1.2081
88	5	PCB-123	NotFnd	*	*	*	n	n	1.0180
89	5	PCB-106	38:30	2.289e+03	1.375e+03	1.66	y	n	1.0517
90	5	PCB-118	NotFnd	*	*	*	n	n	0.9968
91	5	PCB-122	39:03	2.345e+03	1.483e+03	1.58	y	n	1.0986
92	5	PCB-114	NotFnd	*	*	*	n	n	0.9914
93	5	PCB-105	NotFnd	*	*	*	n	n	1.0109
94	5	PCB-127	41:22	2.392e+03	1.492e+03	1.60	y	n	1.1149
95	5	PCB-126	NotFnd	*	*	*	n	n	0.9601
96	4	PCB-155	NotFnd	*	*	*	n	n	0.9884
97	4	PCB-152	33:40	1.952e+03	1.733e+03	1.13	y	n	1.3589
98	4	PCB-150	33:51	2.148e+03	1.871e+03	1.15	y	n	1.4817
99	4	PCB-136	34:12	1.908e+03	1.655e+03	1.15	y	n	1.3138
100	4	PCB-145	34:30	2.073e+03	1.809e+03	1.15	y	n	1.4314
101	4	PCB-148	36:01	1.438e+03	1.327e+03	1.08	y	n	1.0193
102	4	PCB-135/151	36:37	2.959e+03	2.592e+03	1.14	y	n	1.0233
103	4	PCB-154	36:53	1.731e+03	1.546e+03	1.12	y	n	1.2084
104	4	PCB-144	37:11	1.430e+03	1.314e+03	1.09	y	n	1.0116
105	5	PCB-147/149	37:33	3.837e+03	3.046e+03	1.26	y	n	1.2689
106	5	PCB-134	37:45	1.477e+03	1.167e+03	1.27	y	n	0.9748
107	5	PCB-143	37:50	1.663e+03	1.334e+03	1.25	y	n	1.1051

108	5	PCB-139/140	38:09	3.606e+03	2.969e+03	1.21	y	n	1.2122
109	5	PCB-131	38:21	1.549e+03	1.258e+03	1.23	y	n	1.0349
110	5	PCB-142	38:30	1.498e+03	1.239e+03	1.21	y	n	1.0093
111	5	PCB-132	38:48	1.878e+03	1.529e+03	1.23	y	n	1.2562
112	5	PCB-133	39:19	1.784e+03	1.413e+03	1.26	y	n	1.1788
113	5	PCB-165	39:43	2.398e+03	1.945e+03	1.23	y	n	1.6012
114	5	PCB-146	39:57	2.025e+03	1.688e+03	1.20	y	n	1.3691
115	5	PCB-161	40:05	2.391e+03	1.909e+03	1.25	y	n	1.5855
116	5	PCB-153/168	40:36	4.557e+03	3.699e+03	1.23	y	n	1.5220
117	5	PCB-141	40:46	1.825e+03	1.514e+03	1.21	y	n	1.2309
118	5	PCB-130	41:10	1.578e+03	1.302e+03	1.21	y	n	1.0617
119	5	PCB-137	41:24	1.870e+03	1.528e+03	1.22	y	n	1.2531
120	5	PCB-164	41:31	2.262e+03	1.892e+03	1.20	y	n	1.5316
121	5	PCB-129/138/163	41:50	5.690e+03	4.652e+03	1.22	y	n	1.2711
122	5	PCB-160	41:59	2.471e+03	2.026e+03	1.22	y	n	1.6583
123	5	PCB-158	42:13	2.523e+03	2.008e+03	1.26	y	n	1.6705
124	5	PCB-128/166	43:04	3.967e+03	3.275e+03	1.21	y	n	1.3352
125	6	PCB-159	44:05	1.658e+03	1.323e+03	1.25	y	n	1.0994
126	6	PCB-162	44:21	1.734e+03	1.433e+03	1.21	y	n	1.1677
127	6	PCB-167	NotFnd	*	*	*	n	n	1.0081
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.0060
129	6	PCB-169	NotFnd	*	*	*	n	n	0.9915
130	5	PCB-188	NotFnd	*	*	*	n	n	0.9902
131	5	PCB-179	39:33	2.012e+03	2.053e+03	0.98	y	n	1.3403
132	5	PCB-184	40:05	2.241e+03	2.217e+03	1.01	y	n	1.4698
133	5	PCB-176	40:26	1.923e+03	1.985e+03	0.97	y	n	1.2884
134	5	PCB-186	40:53	1.998e+03	2.039e+03	0.98	y	n	1.3312
135	5	PCB-178	42:16	1.378e+03	1.372e+03	1.00	y	n	0.9070
136	5	PCB-175	42:54	1.497e+03	1.486e+03	1.01	y	n	0.9836
137	5	PCB-187	43:10	1.636e+03	1.675e+03	0.98	y	n	1.0915
138	5	PCB-182	43:23	1.525e+03	1.417e+03	1.08	y	n	0.9699
139	6	PCB-183	43:48	1.241e+03	1.250e+03	0.99	y	n	0.8214
140	6	PCB-185	43:54	1.131e+03	1.107e+03	1.02	y	n	0.7379
141	6	PCB-174	44:02	1.053e+03	1.069e+03	0.99	y	n	0.6998
142	6	PCB-177	44:29	1.051e+03	1.006e+03	1.04	y	n	0.6785
143	6	PCB-181	44:52	1.170e+03	1.169e+03	1.00	y	n	0.7711
144	6	PCB-171/173	45:05	2.002e+03	2.043e+03	0.98	y	n	0.6669
145	6	PCB-172	46:43	9.621e+02	9.942e+02	0.97	y	n	0.6450
146	6	PCB-192	47:00	1.358e+03	1.356e+03	1.00	y	n	0.8951
147	6	PCB-180/193	47:21	2.427e+03	2.520e+03	0.96	y	n	0.8156
148	6	PCB-191	47:44	1.316e+03	1.320e+03	1.00	y	n	0.8692
149	6	PCB-170	48:38	9.078e+02	9.465e+02	0.96	y	n	0.6114
150	6	PCB-190	49:10	1.201e+03	1.272e+03	0.94	y	n	0.8154
151	6	PCB-189	NotFnd	*	*	*	n	n	0.8632
152	6	PCB-202	NotFnd	*	*	*	n	n	0.8634
153	6	PCB-201	45:31	1.836e+03	2.218e+03	0.83	y	n	1.2280
154	6	PCB-204	46:12	1.774e+03	2.201e+03	0.81	y	n	1.2043
155	6	PCB-197	46:25	1.999e+03	2.476e+03	0.81	y	n	1.3558
156	6	PCB-200	46:31	1.779e+03	2.072e+03	0.86	y	n	1.1664
157	6	PCB-198/199	49:20	2.584e+03	3.102e+03	0.83	y	n	0.8611
158	6	PCB-196	50:00	1.249e+03	1.519e+03	0.82	y	n	0.8385
159	6	PCB-203	50:12	1.465e+03	1.749e+03	0.84	y	n	0.9737
160	6	PCB-195	51:31	1.165e+03	1.399e+03	0.83	y	n	0.7768
161	6	PCB-194	53:51	1.178e+03	1.352e+03	0.87	y	n	0.7662
162	6	PCB-205	NotFnd	*	*	*	n	n	0.8885
163	6	PCB-208	NotFnd	*	*	*	n	n	0.8804
164	6	PCB-207	52:12	1.150e+03	1.456e+03	0.79	y	n	1.0322

165	7	PCB-206	NotFnd	*	*	*	n	n	0.9310
166	7	PCB-209	NotFnd	*	*	*	n	n	0.8938
167	1	PCB-1L	13:20	9.160e+03	3.162e+03	2.90	y	n	1.2197
168	1	PCB-3L	15:36	9.454e+03	3.113e+03	3.04	y	n	1.1732
169	1	PCB-4L	15:51	4.013e+03	2.522e+03	1.59	y	n	0.8031
170	2	PCB-15L	21:53	6.027e+03	3.865e+03	1.56	y	n	0.9620
171	2	PCB-19L	19:02	3.142e+03	3.131e+03	1.00	y	n	0.6361
172	3	PCB-37L	29:00	4.636e+03	4.792e+03	0.97	y	n	1.1440
173	2	PCB-54L	22:10	2.750e+03	3.412e+03	0.81	y	n	1.1399
174	4	PCB-81L	35:47	3.147e+03	4.052e+03	0.78	y	n	0.9468
175	4	PCB-77L	36:21	3.230e+03	4.082e+03	0.79	y	n	0.9489
176	3	PCB-104L	27:45	4.441e+03	2.826e+03	1.57	y	n	1.3966
177	5	PCB-123L	38:21	3.813e+03	2.523e+03	1.51	y	n	1.0295
178	5	PCB-118L	38:41	4.262e+03	2.746e+03	1.55	y	n	1.0766
179	5	PCB-114L	39:13	4.419e+03	2.840e+03	1.56	y	n	1.0747
180	5	PCB-105L	39:51	4.181e+03	2.781e+03	1.50	y	n	1.0133
181	5	PCB-126L	42:57	3.817e+03	2.532e+03	1.51	y	n	0.8978
182	4	PCB-155L	33:27	4.200e+03	3.354e+03	1.25	y	n	1.6371
183	6	PCB-167L	44:49	2.825e+03	2.291e+03	1.23	y	n	0.8820
184	6	PCB-156/157L	45:58	5.462e+03	4.483e+03	1.22	y	n	0.8178
185	6	PCB-169L	49:12	2.428e+03	2.078e+03	1.17	y	n	0.7164
186	5	PCB-188L	39:11	3.905e+03	3.667e+03	1.06	y	n	2.3576
187	6	PCB-189L	51:44	2.302e+03	2.258e+03	1.02	y	n	1.3072
188	6	PCB-202L	44:34	2.464e+03	2.758e+03	0.89	y	n	1.8042
189	6	PCB-205L	54:18	1.703e+03	1.879e+03	0.91	y	n	1.3631
190	6	PCB-208L	51:14	1.570e+03	2.005e+03	0.78	y	n	1.3370
191	7	PCB-206L	56:02	1.380e+03	1.777e+03	0.78	y	n	0.9978
192	7	PCB-209L	57:37	1.880e+03	1.593e+03	1.18	y	n	1.5625
193	3	PCB-28L	NotFnd	*	*	*	n	n	1.3869
194	4	PCB-111L	NotFnd	*	*	*	n	n	1.2384
195	5	PCB-178L	NotFnd	*	*	*	n	n	0.9527
196	2	PCB-9L	NotFnd	*	*	*	n	n	-
197	3	PCB-52L	NotFnd	*	*	*	n	n	-
198	4	PCB-101L	NotFnd	*	*	*	n	n	-
199	5	PCB-138L	NotFnd	*	*	*	n	n	-
200	6	PCB-194L	NotFnd	*	*	*	n	n	-

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
B4-25-1

Run #8 Filename U142092#1 Samp: 1 Inj: 1 Acquired: 12-NOV-11 06:05:04

Processed: 15-NOV-11 14:20:06 LAB. ID: DCCS-209

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	2.84e+03	*	*	4.12e+03	*
2	PCB-2	6.57e+05	2.84e+03	2.3e+02	2.12e+05	4.12e+03	5.1e+01
3	PCB-3	*	2.84e+03	*	*	4.12e+03	*
4	PCB-4	*	2.31e+03	*	*	1.47e+04	*
5	PCB-10	4.99e+05	2.31e+03	2.2e+02	3.08e+05	1.47e+04	2.1e+01
6	PCB-9	4.16e+05	3.11e+03	1.3e+02	2.80e+05	1.89e+04	1.5e+01
7	PCB-7	4.56e+05	3.11e+03	1.5e+02	3.14e+05	1.89e+04	1.7e+01
8	PCB-6	4.07e+05	3.11e+03	1.3e+02	2.67e+05	1.89e+04	1.4e+01
9	PCB-5	4.13e+05	3.11e+03	1.3e+02	2.77e+05	1.89e+04	1.5e+01
10	PCB-8	4.48e+05	3.11e+03	1.4e+02	2.85e+05	1.89e+04	1.5e+01
11	PCB-14	3.76e+05	3.11e+03	1.2e+02	2.71e+05	1.89e+04	1.4e+01
12	PCB-11	3.74e+05	3.11e+03	1.2e+02	2.39e+05	1.89e+04	1.3e+01
13	PCB-12/13	5.61e+05	3.11e+03	1.8e+02	3.59e+05	1.89e+04	1.9e+01
14	PCB-15	*	3.11e+03	*	*	1.89e+04	*
15	PCB-19	*	2.10e+03	*	*	1.40e+03	*
16	PCB-18/30	4.87e+05	2.10e+03	2.3e+02	4.94e+05	1.40e+03	3.5e+02
17	PCB-17	2.32e+05	2.10e+03	1.1e+02	2.29e+05	1.40e+03	1.6e+02
18	PCB-27	3.11e+05	2.10e+03	1.5e+02	3.01e+05	1.40e+03	2.2e+02
19	PCB-24	3.22e+05	2.10e+03	1.5e+02	3.11e+05	1.40e+03	2.2e+02
20	PCB-16	2.07e+05	2.10e+03	9.9e+01	1.99e+05	1.40e+03	1.4e+02
21	PCB-32	3.36e+05	2.10e+03	1.6e+02	3.34e+05	1.40e+03	2.4e+02
22	PCB-34	3.05e+05	4.46e+03	6.8e+01	3.00e+05	1.29e+03	2.3e+02
23	PCB-23	3.03e+05	4.46e+03	6.8e+01	3.01e+05	1.29e+03	2.3e+02
24	PCB-26/29	5.23e+05	4.46e+03	1.2e+02	4.99e+05	1.29e+03	3.9e+02
25	PCB-25	3.02e+05	4.46e+03	6.8e+01	2.96e+05	1.29e+03	2.3e+02
26	PCB-31	3.13e+05	4.46e+03	7.0e+01	3.23e+05	1.29e+03	2.5e+02
27	PCB-20/28	5.51e+05	4.46e+03	1.2e+02	5.19e+05	1.29e+03	4.0e+02
28	PCB-21/33	3.25e+05	4.46e+03	7.3e+01	3.16e+05	1.29e+03	2.4e+02
29	PCB-22	3.00e+05	4.46e+03	6.7e+01	3.04e+05	1.29e+03	2.4e+02
30	PCB-36	2.92e+05	4.46e+03	6.5e+01	2.67e+05	1.29e+03	2.1e+02
31	PCB-39	3.08e+05	4.46e+03	6.9e+01	3.03e+05	1.29e+03	2.3e+02
32	PCB-38	2.57e+05	4.46e+03	5.7e+01	2.56e+05	1.29e+03	2.0e+02
33	PCB-35	2.64e+05	4.46e+03	5.9e+01	2.57e+05	1.29e+03	2.0e+02
34	PCB-37	*	4.46e+03	*	*	1.29e+03	*
35	PCB-54	*	1.26e+03	*	*	1.22e+03	*
36	PCB-50/53	6.19e+05	1.82e+03	3.4e+02	8.23e+05	2.01e+03	4.1e+02
37	PCB-45/51	3.27e+05	1.82e+03	1.8e+02	4.19e+05	2.01e+03	2.1e+02
38	PCB-46	3.01e+05	1.82e+03	1.6e+02	3.78e+05	2.01e+03	1.9e+02
39	PCB-52	3.67e+05	1.82e+03	2.0e+02	4.73e+05	2.01e+03	2.3e+02
40	PCB-43/73	4.65e+05	1.82e+03	2.5e+02	6.35e+05	2.01e+03	3.2e+02
41	PCB-49/69	5.65e+05	1.82e+03	3.1e+02	7.48e+05	2.01e+03	3.7e+02
42	PCB-48	3.73e+05	1.82e+03	2.0e+02	5.07e+05	2.01e+03	2.5e+02
43	PCB-44/47/65	9.04e+05	1.82e+03	5.0e+02	1.18e+06	2.01e+03	5.9e+02
44	PCB-59/62/75	9.85e+05	1.82e+03	5.4e+02	1.27e+06	2.01e+03	6.3e+02
45	PCB-42	3.19e+05	1.82e+03	1.7e+02	4.21e+05	2.01e+03	2.1e+02
46	PCB-40/41/71	6.88e+05	1.82e+03	3.8e+02	9.34e+05	2.01e+03	4.6e+02
47	PCB-64	4.60e+05	1.82e+03	2.5e+02	6.13e+05	2.01e+03	3.0e+02

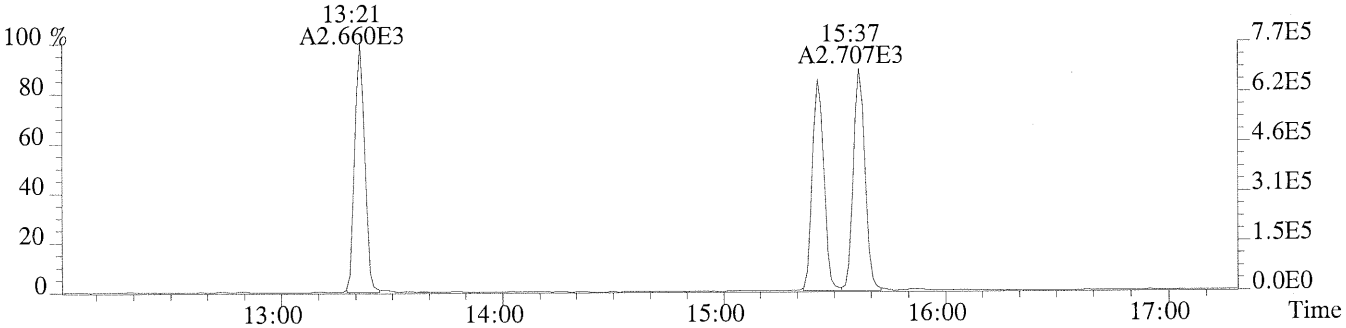
48	PCB-72	4.52e+05	1.82e+03	2.5e+02	5.91e+05	2.01e+03	2.9e+02
49	PCB-68	5.05e+05	1.82e+03	2.8e+02	6.35e+05	2.01e+03	3.2e+02
50	PCB-57	4.32e+05	1.82e+03	2.4e+02	5.59e+05	2.01e+03	2.8e+02
51	PCB-58	4.28e+05	1.82e+03	2.3e+02	5.87e+05	2.01e+03	2.9e+02
52	PCB-67	4.55e+05	1.82e+03	2.5e+02	5.94e+05	2.01e+03	3.0e+02
53	PCB-63	4.03e+05	1.82e+03	2.2e+02	5.70e+05	2.01e+03	2.8e+02
54	PCB-61/70/74/76	8.62e+05	1.82e+03	4.7e+02	1.16e+06	2.01e+03	5.8e+02
55	PCB-66	3.98e+05	1.82e+03	2.2e+02	5.24e+05	2.01e+03	2.6e+02
56	PCB-55	3.91e+05	1.82e+03	2.1e+02	5.30e+05	2.01e+03	2.6e+02
57	PCB-56	3.94e+05	2.43e+03	1.6e+02	5.24e+05	1.78e+03	2.9e+02
58	PCB-60	3.96e+05	2.43e+03	1.6e+02	5.21e+05	1.78e+03	2.9e+02
59	PCB-80	4.21e+05	2.43e+03	1.7e+02	5.23e+05	1.78e+03	2.9e+02
60	PCB-79	3.61e+05	2.43e+03	1.5e+02	4.80e+05	1.78e+03	2.7e+02
61	PCB-78	3.35e+05	2.43e+03	1.4e+02	4.42e+05	1.78e+03	2.5e+02
62	PCB-81	*	2.43e+03	*	*	1.78e+03	*
63	PCB-77	*	2.43e+03	*	*	1.78e+03	*
64	PCB-104	*	1.03e+03	*	*	1.30e+03	*
65	PCB-96	4.62e+05	1.03e+03	4.5e+02	3.03e+05	1.30e+03	2.3e+02
66	PCB-103	3.94e+05	1.03e+03	3.8e+02	2.36e+05	1.30e+03	1.8e+02
67	PCB-94	3.42e+05	1.03e+03	3.3e+02	2.21e+05	1.30e+03	1.7e+02
68	PCB-95	3.45e+05	1.03e+03	3.4e+02	2.26e+05	1.30e+03	1.7e+02
69	PCB-93/100	6.89e+05	1.03e+03	6.7e+02	4.19e+05	1.30e+03	3.2e+02
70	PCB-98/102	4.09e+05	1.03e+03	4.0e+02	2.64e+05	1.30e+03	2.0e+02
71	PCB-88/91	3.71e+05	1.03e+03	3.6e+02	2.32e+05	1.30e+03	1.8e+02
72	PCB-84	2.96e+05	1.03e+03	2.9e+02	1.80e+05	1.30e+03	1.4e+02
73	PCB-89	2.60e+05	1.03e+03	2.5e+02	1.51e+05	1.30e+03	1.2e+02
74	PCB-121	5.61e+05	1.49e+03	3.8e+02	3.42e+05	9.28e+02	3.7e+02
75	PCB-92	3.85e+05	1.49e+03	2.6e+02	2.39e+05	9.28e+02	2.6e+02
76	PCB-90/101/113	9.56e+05	1.49e+03	6.4e+02	6.21e+05	9.28e+02	6.7e+02
77	PCB-83/99	4.78e+05	1.49e+03	3.2e+02	2.98e+05	9.28e+02	3.2e+02
78	PCB-112	5.03e+05	1.49e+03	3.4e+02	3.20e+05	9.28e+02	3.5e+02
79	CB-86/87/97/109/119/125	1.50e+06	1.49e+03	1.0e+03	9.48e+05	9.28e+02	1.0e+03
80	PCB-117	5.37e+05	1.49e+03	3.6e+02	3.60e+05	9.28e+02	3.9e+02
81	PCB-85/116	8.50e+05	1.49e+03	5.7e+02	5.60e+05	9.28e+02	6.0e+02
82	PCB-110/115	5.57e+05	1.49e+03	3.7e+02	3.85e+05	9.28e+02	4.1e+02
83	PCB-82	3.09e+05	1.49e+03	2.1e+02	1.97e+05	9.28e+02	2.1e+02
84	PCB-111	5.44e+05	1.49e+03	3.7e+02	3.60e+05	9.28e+02	3.9e+02
85	PCB-120	4.80e+05	1.49e+03	3.2e+02	3.18e+05	9.28e+02	3.4e+02
86	PCB-108/124	8.33e+05	1.62e+03	5.2e+02	5.07e+05	9.62e+03	5.3e+01
87	PCB-107	4.30e+05	1.62e+03	2.7e+02	2.75e+05	9.62e+03	2.9e+01
88	PCB-123	*	1.62e+03	*	*	9.62e+03	*
89	PCB-106	3.98e+05	1.62e+03	2.5e+02	2.53e+05	9.62e+03	2.6e+01
90	PCB-118	*	1.62e+03	*	*	9.62e+03	*
91	PCB-122	4.32e+05	1.62e+03	2.7e+02	2.64e+05	9.62e+03	2.7e+01
92	PCB-114	*	1.62e+03	*	*	9.62e+03	*
93	PCB-105	*	1.62e+03	*	*	9.62e+03	*
94	PCB-127	4.24e+05	1.62e+03	2.6e+02	2.57e+05	9.62e+03	2.7e+01
95	PCB-126	*	1.62e+03	*	*	9.62e+03	*
96	PCB-155	*	8.96e+02	*	*	1.20e+03	*
97	PCB-152	3.57e+05	8.96e+02	4.0e+02	3.14e+05	1.20e+03	2.6e+02
98	PCB-150	3.97e+05	8.96e+02	4.4e+02	3.46e+05	1.20e+03	2.9e+02
99	PCB-136	3.47e+05	8.96e+02	3.9e+02	3.09e+05	1.20e+03	2.6e+02
100	PCB-145	3.76e+05	8.96e+02	4.2e+02	3.47e+05	1.20e+03	2.9e+02
101	PCB-148	2.80e+05	8.96e+02	3.1e+02	2.49e+05	1.20e+03	2.1e+02
102	PCB-135/151	3.25e+05	8.96e+02	3.6e+02	2.80e+05	1.20e+03	2.3e+02
103	PCB-154	3.18e+05	8.96e+02	3.6e+02	2.82e+05	1.20e+03	2.3e+02
104	PCB-144	2.65e+05	8.96e+02	3.0e+02	2.43e+05	1.20e+03	2.0e+02

105	PCB-147/149	6.83e+05	2.29e+03	3.0e+02	5.45e+05	4.10e+03	1.3e+02
106	PCB-134	2.81e+05	2.29e+03	1.2e+02	2.28e+05	4.10e+03	5.6e+01
107	PCB-143	3.00e+05	2.29e+03	1.3e+02	2.39e+05	4.10e+03	5.8e+01
108	PCB-139/140	6.27e+05	2.29e+03	2.7e+02	5.06e+05	4.10e+03	1.2e+02
109	PCB-131	2.77e+05	2.29e+03	1.2e+02	2.15e+05	4.10e+03	5.2e+01
110	PCB-142	2.72e+05	2.29e+03	1.2e+02	2.30e+05	4.10e+03	5.6e+01
111	PCB-132	3.51e+05	2.29e+03	1.5e+02	2.69e+05	4.10e+03	6.5e+01
112	PCB-133	3.16e+05	2.29e+03	1.4e+02	2.52e+05	4.10e+03	6.1e+01
113	PCB-165	4.19e+05	2.29e+03	1.8e+02	3.54e+05	4.10e+03	8.6e+01
114	PCB-146	3.61e+05	2.29e+03	1.6e+02	3.03e+05	4.10e+03	7.4e+01
115	PCB-161	4.36e+05	2.29e+03	1.9e+02	3.62e+05	4.10e+03	8.8e+01
116	PCB-153/168	6.53e+05	2.29e+03	2.8e+02	5.22e+05	4.10e+03	1.3e+02
117	PCB-141	3.41e+05	2.29e+03	1.5e+02	2.70e+05	4.10e+03	6.6e+01
118	PCB-130	2.78e+05	2.29e+03	1.2e+02	2.36e+05	4.10e+03	5.7e+01
119	PCB-137	3.37e+05	2.29e+03	1.5e+02	2.80e+05	4.10e+03	6.8e+01
120	PCB-164	3.87e+05	2.29e+03	1.7e+02	3.31e+05	4.10e+03	8.1e+01
121	PCB-129/138/163	8.42e+05	2.29e+03	3.7e+02	7.05e+05	4.10e+03	1.7e+02
122	PCB-160	4.33e+05	2.29e+03	1.9e+02	3.53e+05	4.10e+03	8.6e+01
123	PCB-158	4.36e+05	2.29e+03	1.9e+02	3.46e+05	4.10e+03	8.4e+01
124	PCB-128/166	6.31e+05	2.29e+03	2.8e+02	5.10e+05	4.10e+03	1.2e+02
125	PCB-159	3.56e+05	1.00e+03	3.6e+02	2.85e+05	1.13e+03	2.5e+02
126	PCB-162	3.60e+05	1.00e+03	3.6e+02	2.94e+05	1.13e+03	2.6e+02
127	PCB-167	*	1.00e+03	*	*	1.13e+03	*
128	PCB-156/157	*	1.00e+03	*	*	1.13e+03	*
129	PCB-169	*	1.00e+03	*	*	1.13e+03	*
130	PCB-188	*	1.10e+03	*	*	7.48e+02	*
131	PCB-179	3.54e+05	1.10e+03	3.2e+02	3.60e+05	7.48e+02	4.8e+02
132	PCB-184	4.00e+05	1.10e+03	3.6e+02	3.89e+05	7.48e+02	5.2e+02
133	PCB-176	3.37e+05	1.10e+03	3.1e+02	3.62e+05	7.48e+02	4.8e+02
134	PCB-186	3.44e+05	1.10e+03	3.1e+02	3.68e+05	7.48e+02	4.9e+02
135	PCB-178	2.46e+05	1.10e+03	2.2e+02	2.44e+05	7.48e+02	3.3e+02
136	PCB-175	2.57e+05	1.10e+03	2.3e+02	2.63e+05	7.48e+02	3.5e+02
137	PCB-187	2.93e+05	1.10e+03	2.7e+02	2.84e+05	7.48e+02	3.8e+02
138	PCB-182	2.69e+05	1.10e+03	2.4e+02	2.55e+05	7.48e+02	3.4e+02
139	PCB-183	2.61e+05	1.28e+03	2.0e+02	2.62e+05	1.28e+03	2.0e+02
140	PCB-185	2.55e+05	1.28e+03	2.0e+02	2.53e+05	1.28e+03	2.0e+02
141	PCB-174	2.25e+05	1.28e+03	1.8e+02	2.37e+05	1.28e+03	1.9e+02
142	PCB-177	2.24e+05	1.28e+03	1.8e+02	2.05e+05	1.28e+03	1.6e+02
143	PCB-181	2.41e+05	1.28e+03	1.9e+02	2.54e+05	1.28e+03	2.0e+02
144	PCB-171/173	3.90e+05	1.28e+03	3.1e+02	4.01e+05	1.28e+03	3.1e+02
145	PCB-172	2.01e+05	1.28e+03	1.6e+02	2.13e+05	1.28e+03	1.7e+02
146	PCB-192	2.82e+05	1.28e+03	2.2e+02	2.81e+05	1.28e+03	2.2e+02
147	PCB-180/193	3.68e+05	1.28e+03	2.9e+02	3.73e+05	1.28e+03	2.9e+02
148	PCB-191	2.87e+05	1.28e+03	2.2e+02	2.85e+05	1.28e+03	2.2e+02
149	PCB-170	1.90e+05	1.28e+03	1.5e+02	2.06e+05	1.28e+03	1.6e+02
150	PCB-190	2.53e+05	1.28e+03	2.0e+02	2.65e+05	1.28e+03	2.1e+02
151	PCB-189	*	1.28e+03	*	*	1.28e+03	*
152	PCB-202	*	1.00e+03	*	*	8.92e+02	*
153	PCB-201	3.82e+05	1.00e+03	3.8e+02	4.57e+05	8.92e+02	5.1e+02
154	PCB-204	3.78e+05	1.00e+03	3.8e+02	4.68e+05	8.92e+02	5.2e+02
155	PCB-197	4.23e+05	1.00e+03	4.2e+02	5.31e+05	8.92e+02	6.0e+02
156	PCB-200	4.02e+05	1.00e+03	4.0e+02	4.60e+05	8.92e+02	5.2e+02
157	PCB-198/199	4.11e+05	1.00e+03	4.1e+02	4.99e+05	8.92e+02	5.6e+02
158	PCB-196	2.69e+05	1.00e+03	2.7e+02	3.19e+05	8.92e+02	3.6e+02
159	PCB-203	3.15e+05	1.00e+03	3.1e+02	3.74e+05	8.92e+02	4.2e+02
160	PCB-195	2.40e+05	1.00e+03	2.4e+02	2.90e+05	8.92e+02	3.2e+02
161	PCB-194	2.43e+05	1.00e+03	2.4e+02	2.76e+05	8.92e+02	3.1e+02
162	PCB-205	*	1.00e+03	*	*	8.92e+02	*

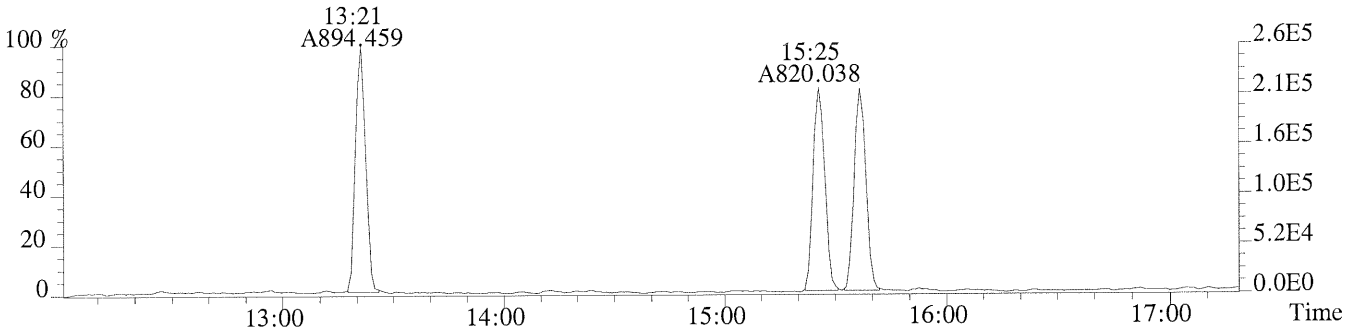
163	PCB-208	*	1.06e+03	*	*	9.64e+02	*
164	PCB-207	2.36e+05	1.06e+03	2.2e+02	2.96e+05	9.64e+02	3.1e+02
165	PCB-206	*	1.17e+03	*	*	1.32e+03	*
166	PCB-209	*	1.06e+03	*	*	1.01e+03	*
167	PCB-1L	2.63e+06	4.48e+03	5.9e+02	9.04e+05	8.93e+03	1.0e+02
168	PCB-3L	2.44e+06	4.48e+03	5.5e+02	7.99e+05	8.93e+03	9.0e+01
169	PCB-4L	1.05e+06	2.01e+03	5.2e+02	6.50e+05	1.92e+03	3.4e+02
170	PCB-15L	1.42e+06	1.64e+03	8.7e+02	9.22e+05	1.44e+03	6.4e+02
171	PCB-19L	7.74e+05	1.40e+04	5.5e+01	7.72e+05	6.80e+03	1.1e+02
172	PCB-37L	8.96e+05	1.59e+04	5.6e+01	9.13e+05	1.11e+04	8.2e+01
173	PCB-54L	6.49e+05	3.74e+03	1.7e+02	7.98e+05	1.74e+03	4.6e+02
174	PCB-81L	5.58e+05	2.75e+03	2.0e+02	7.34e+05	1.66e+03	4.4e+02
175	PCB-77L	5.86e+05	2.75e+03	2.1e+02	7.32e+05	1.66e+03	4.4e+02
176	PCB-104L	8.67e+05	1.42e+03	6.1e+02	5.52e+05	1.64e+03	3.4e+02
177	PCB-123L	6.93e+05	1.96e+03	3.5e+02	4.41e+05	1.94e+03	2.3e+02
178	PCB-118L	7.76e+05	1.96e+03	4.0e+02	4.91e+05	1.94e+03	2.5e+02
179	PCB-114L	7.75e+05	1.96e+03	4.0e+02	5.03e+05	1.94e+03	2.6e+02
180	PCB-105L	7.42e+05	1.96e+03	3.8e+02	4.96e+05	1.94e+03	2.5e+02
181	PCB-126L	6.63e+05	1.96e+03	3.4e+02	4.31e+05	1.94e+03	2.2e+02
182	PCB-155L	7.90e+05	1.41e+03	5.6e+02	6.25e+05	1.72e+03	3.6e+02
183	PCB-167L	5.97e+05	1.55e+03	3.8e+02	4.73e+05	1.64e+03	2.9e+02
184	PCB-156/157L	8.87e+05	1.55e+03	5.7e+02	7.35e+05	1.64e+03	4.5e+02
185	PCB-169L	5.11e+05	1.55e+03	3.3e+02	4.29e+05	1.64e+03	2.6e+02
186	PCB-188L	6.82e+05	1.27e+03	5.4e+02	6.56e+05	7.52e+02	8.7e+02
187	PCB-189L	4.82e+05	1.15e+03	4.2e+02	4.67e+05	1.16e+03	4.0e+02
188	PCB-202L	5.17e+05	7.00e+02	7.4e+02	5.81e+05	8.68e+02	6.7e+02
189	PCB-205L	3.63e+05	7.00e+02	5.2e+02	3.81e+05	8.68e+02	4.4e+02
190	PCB-208L	3.26e+05	8.68e+02	3.8e+02	4.12e+05	1.01e+03	4.1e+02
191	PCB-206L	2.46e+05	9.24e+02	2.7e+02	3.29e+05	9.36e+02	3.5e+02
192	PCB-209L	3.34e+05	9.40e+02	3.6e+02	2.82e+05	7.76e+02	3.6e+02
193	PCB-28L	*	1.59e+04	*	*	1.11e+04	*
194	PCB-111L	*	1.76e+03	*	*	1.40e+03	*
195	PCB-178L	*	1.27e+03	*	*	7.52e+02	*
196	PCB-9L	*	1.64e+03	*	*	1.44e+03	*
197	PCB-52L	*	2.81e+03	*	*	1.62e+03	*
198	PCB-101L	*	1.76e+03	*	*	1.40e+03	*
199	PCB-138L	*	1.40e+03	*	*	1.49e+03	*
200	PCB-194L	*	7.00e+02	*	*	8.68e+02	*

File:U142092 #1-341 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

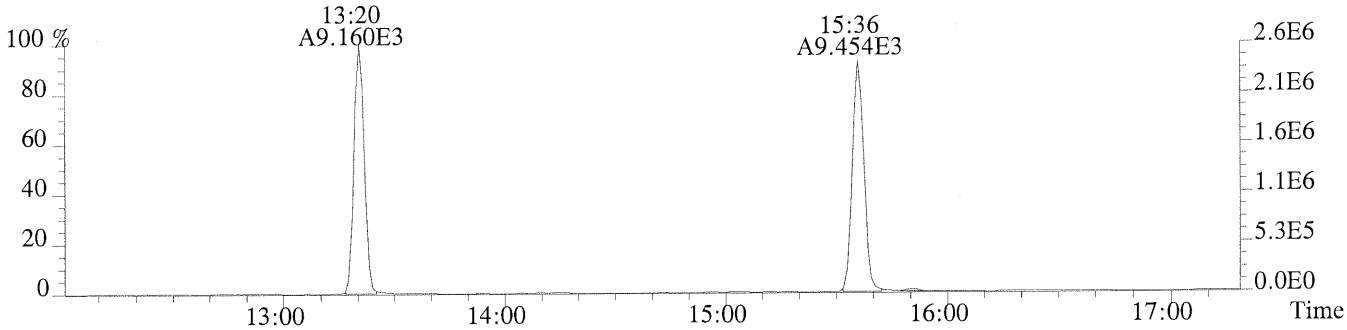
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2836.0,1.00%,F,T)



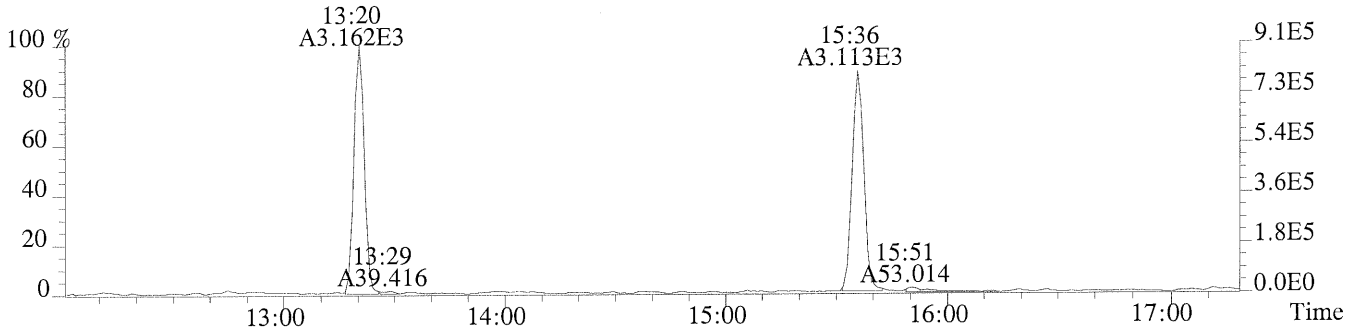
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4124.0,1.00%,F,T)



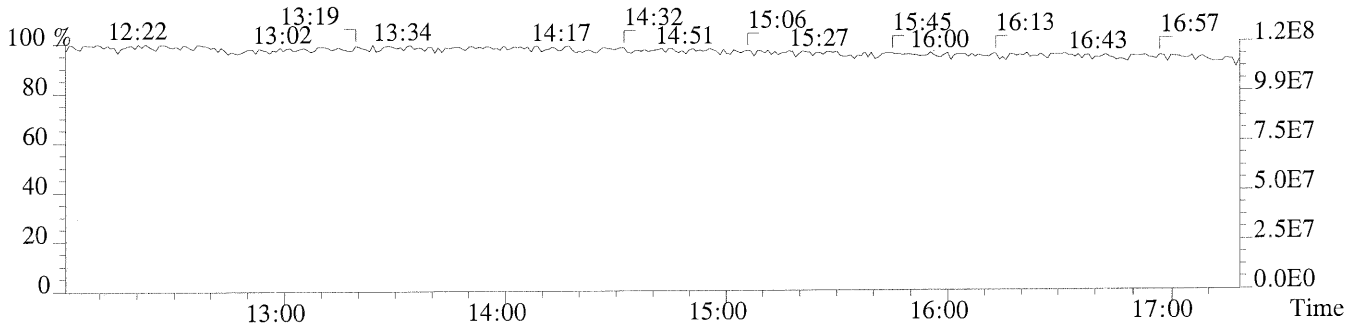
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4476.0,1.00%,F,T)



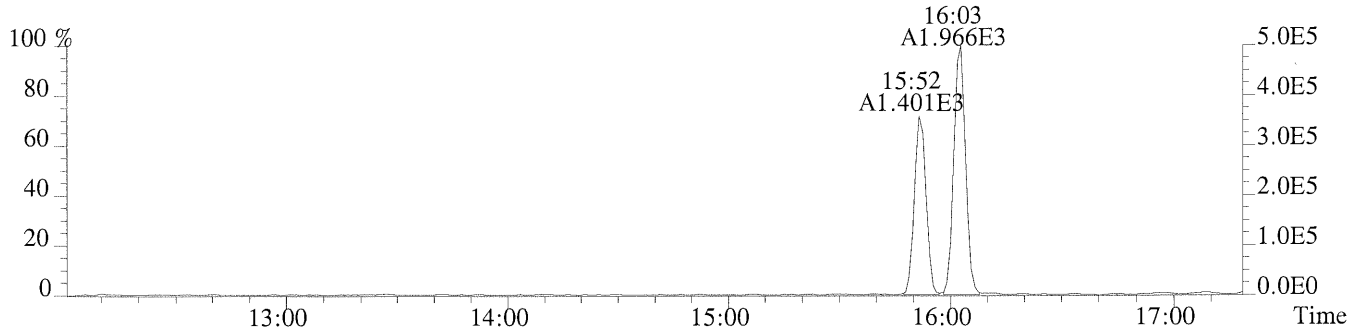
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8928.0,1.00%,F,T)



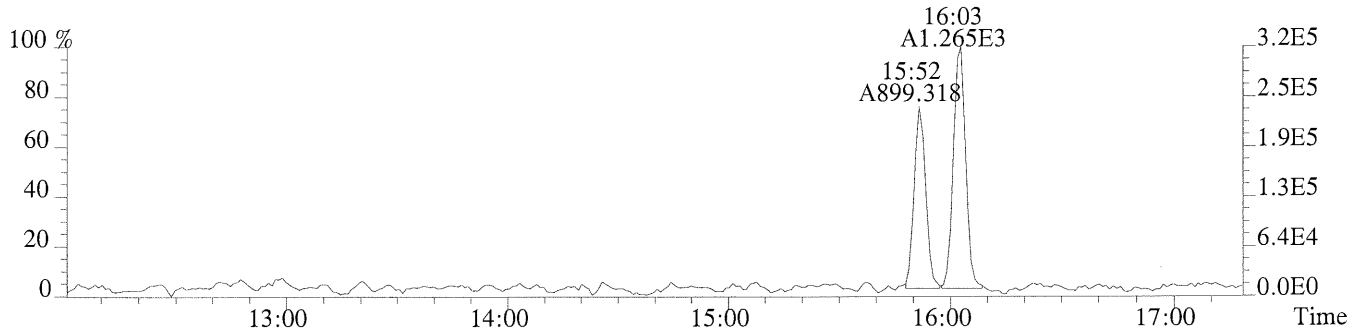
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



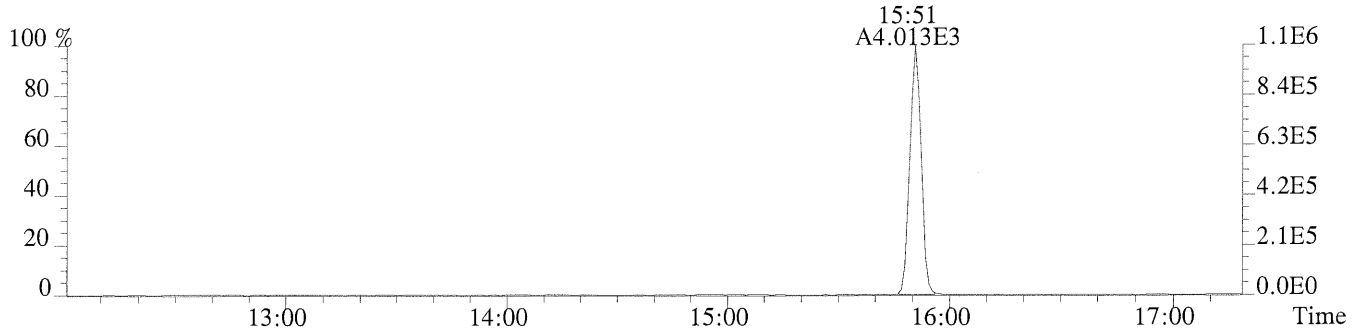
File:U142092 #1-341 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2308.0,1.00%,F,T)



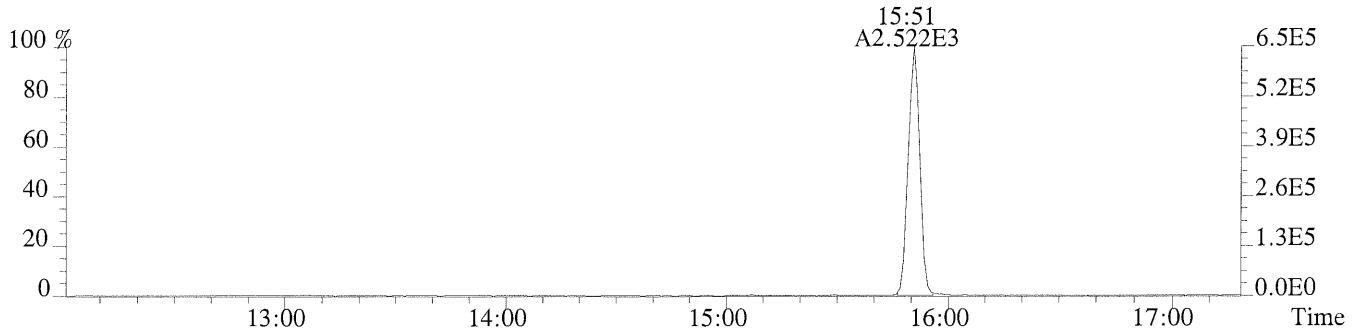
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14684.0,1.00%,F,T)



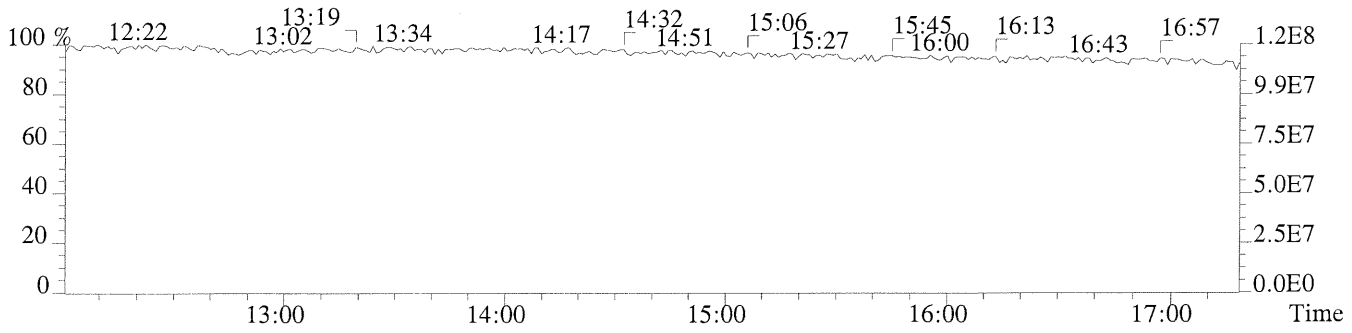
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2008.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1924.0,1.00%,F,T)

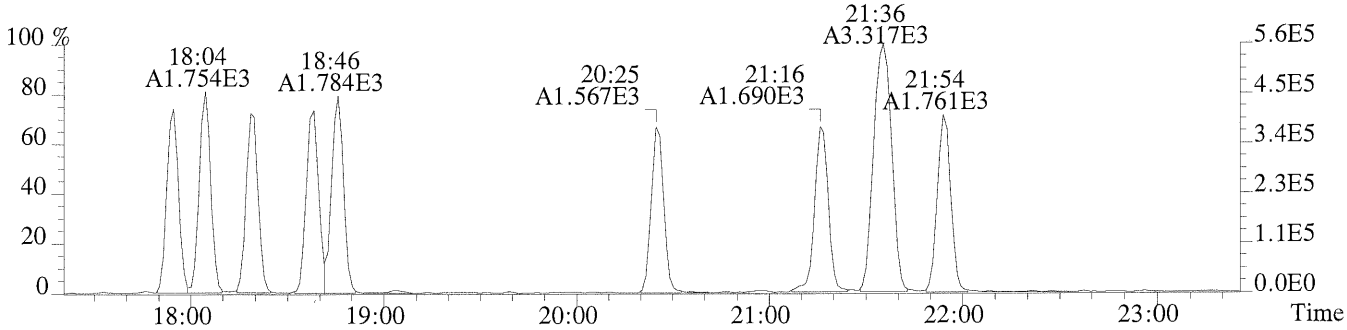


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

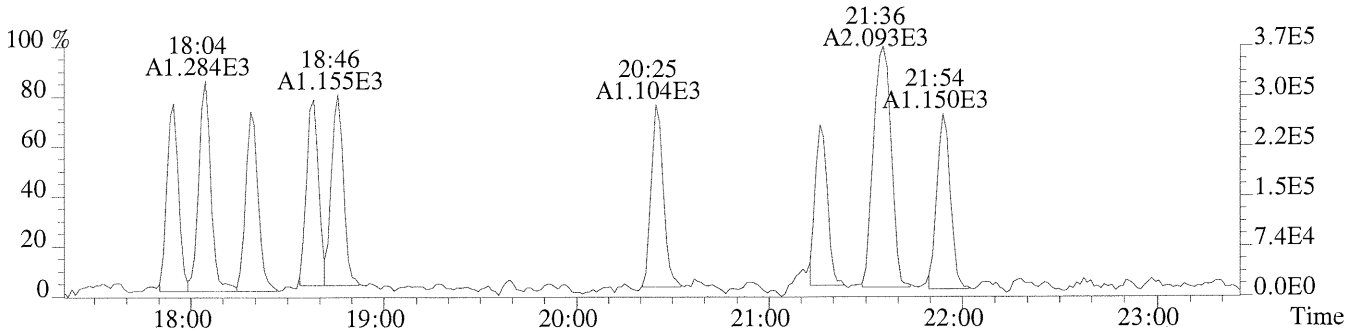


File:U142092 #1-336 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

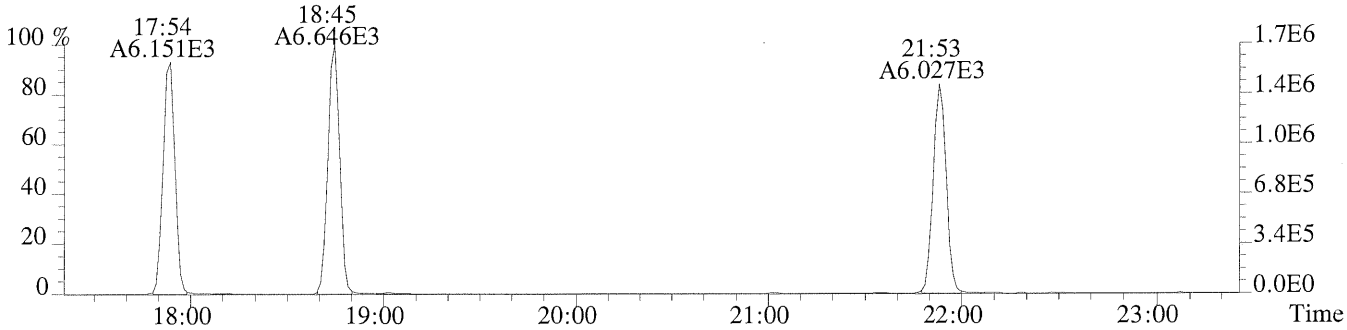
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3108.0,1.00%,F,T)



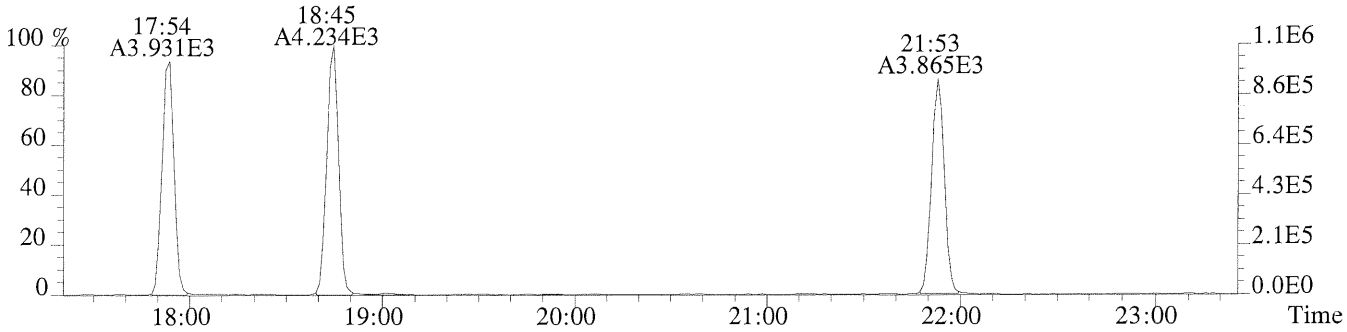
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18936.0,1.00%,F,T)



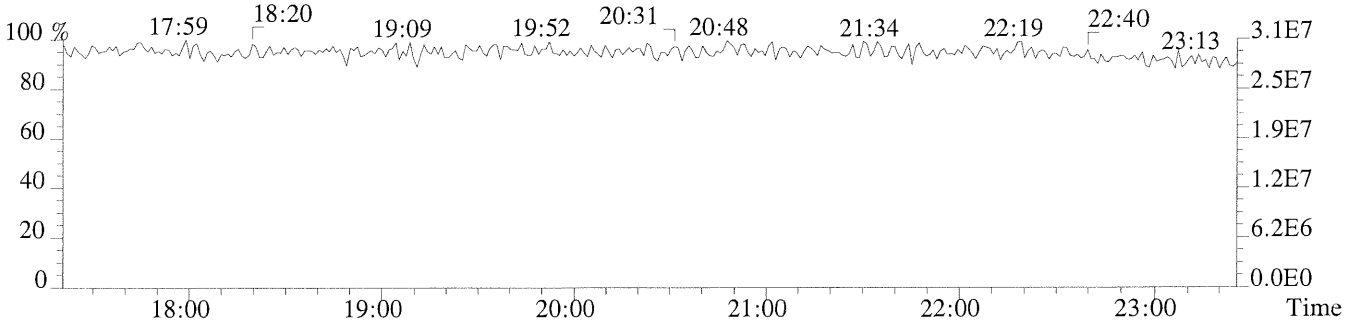
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1640.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1436.0,1.00%,F,T)

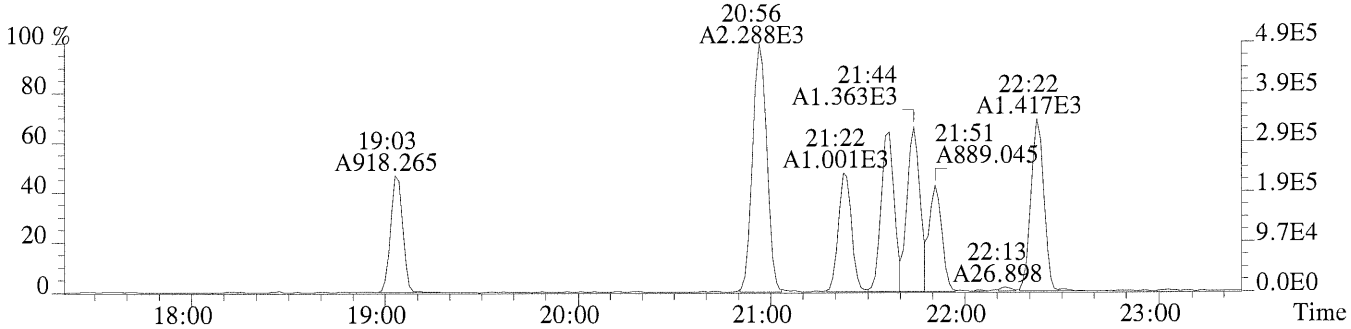


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

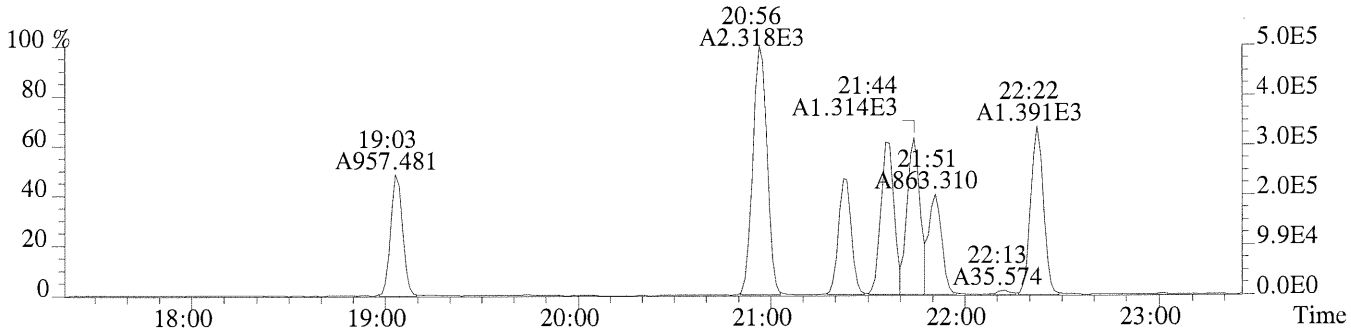


File:U142092 #1-336 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

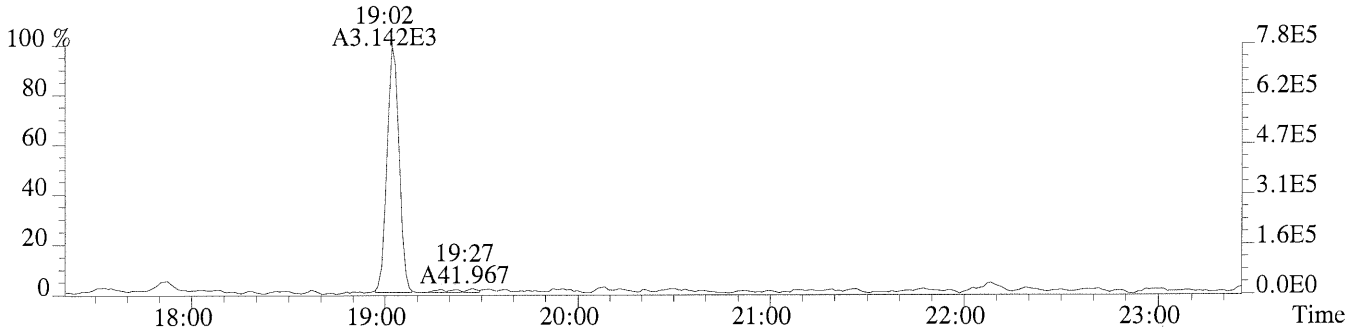
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2096.0,1.00%,F,T)



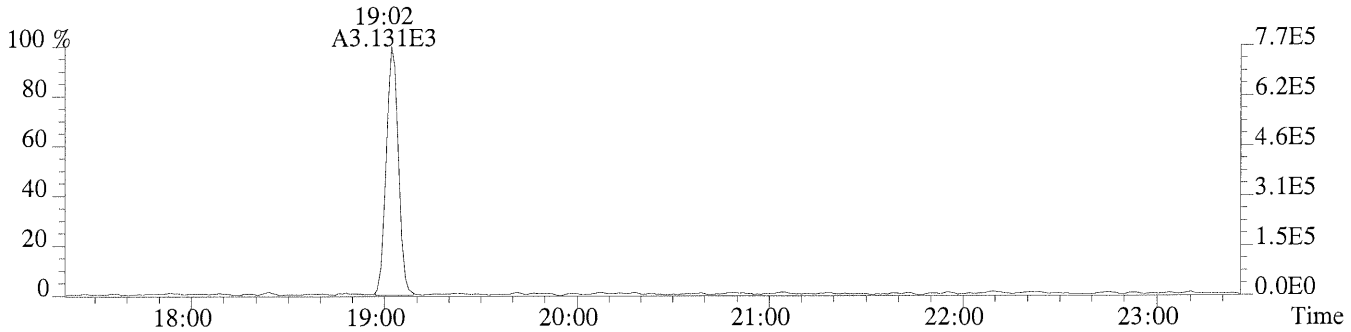
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1400.0,1.00%,F,T)



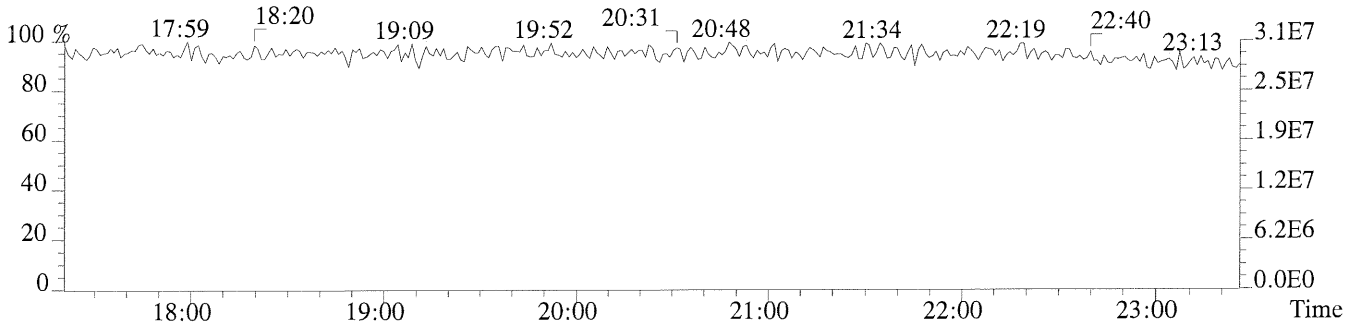
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14036.0,1.00%,F,T)



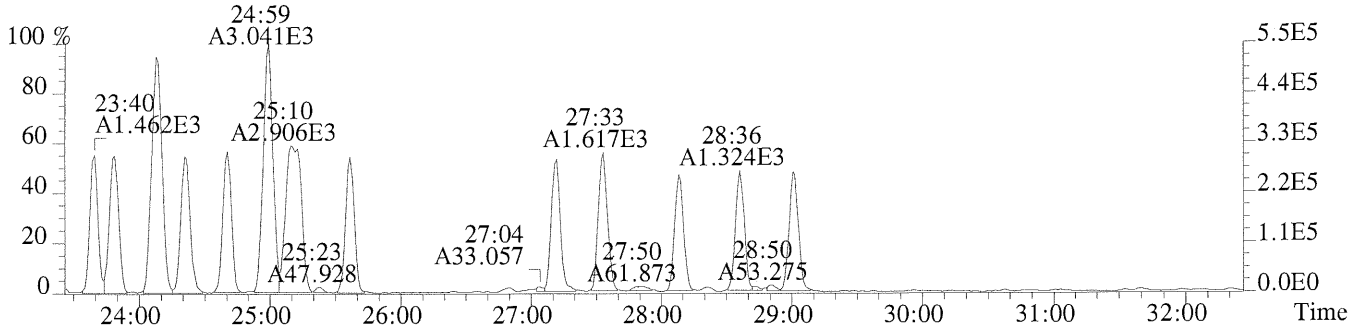
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6796.0,1.00%,F,T)



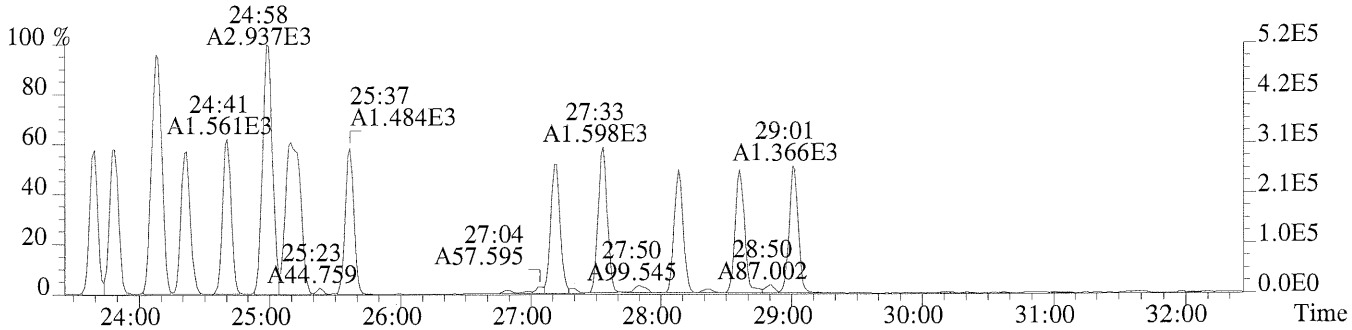
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



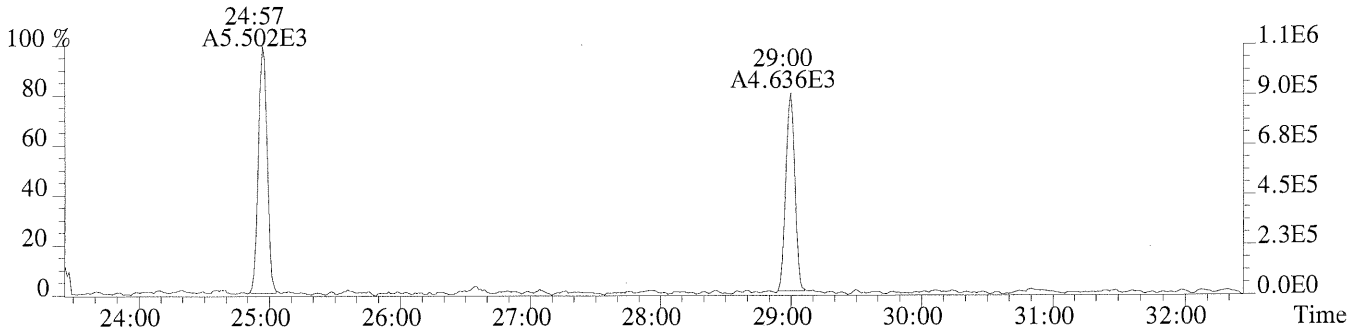
File:U142092 #1-576 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4464.0,1.00%,F,T)



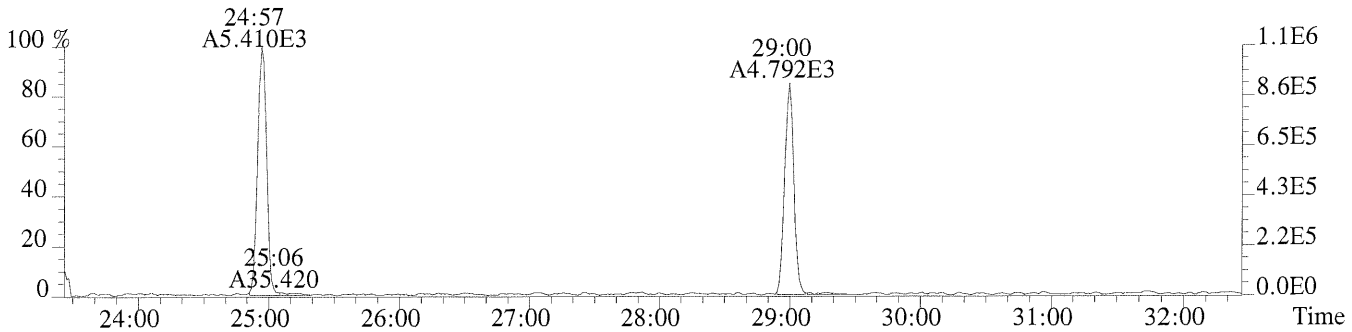
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1292.0,1.00%,F,T)



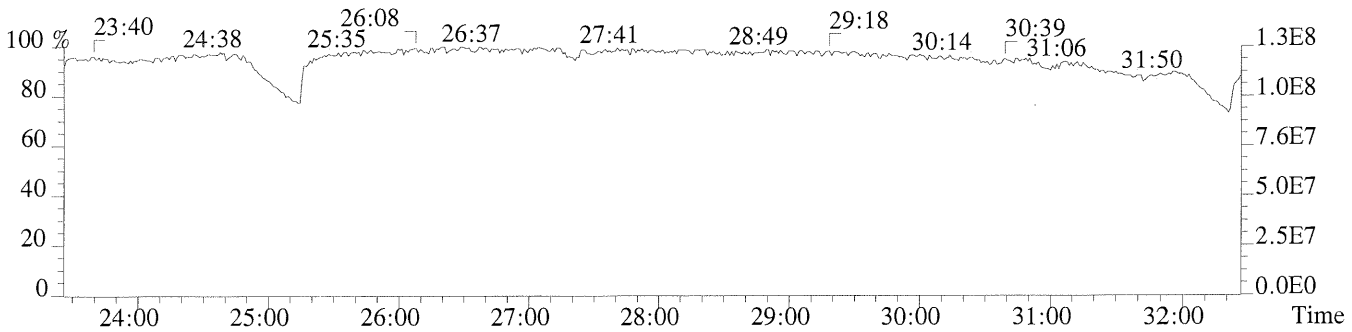
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,15916.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11104.0,1.00%,F,T)

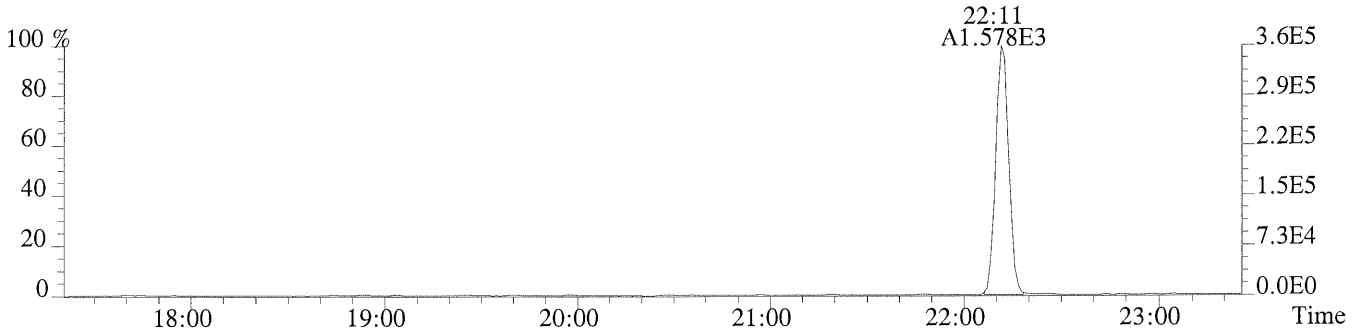


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

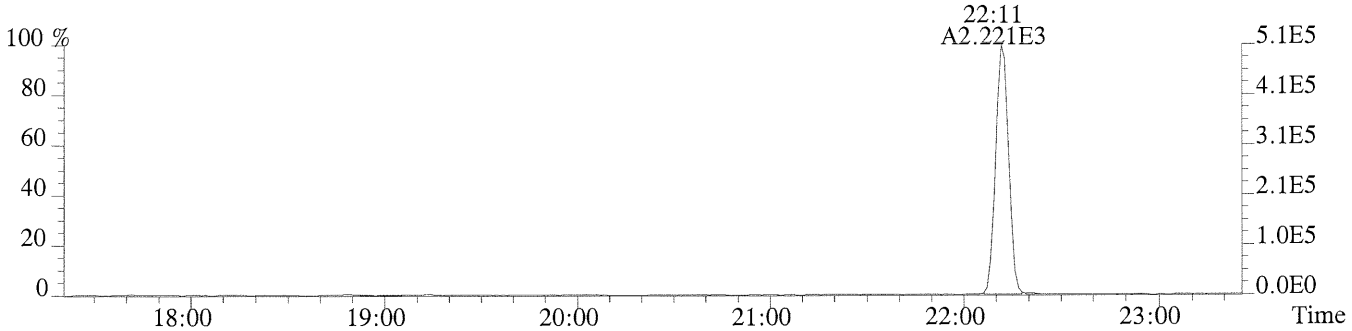


File:U142092 #1-336 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

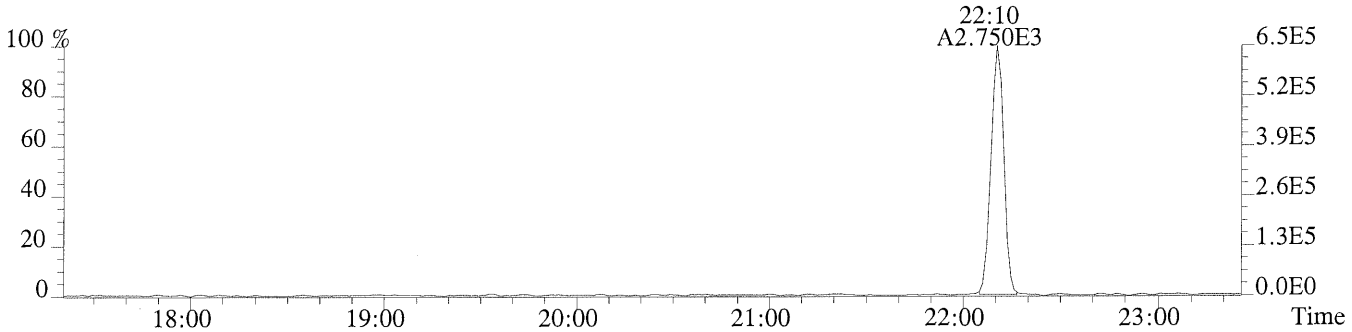
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1256.0,1.00%,F,T)



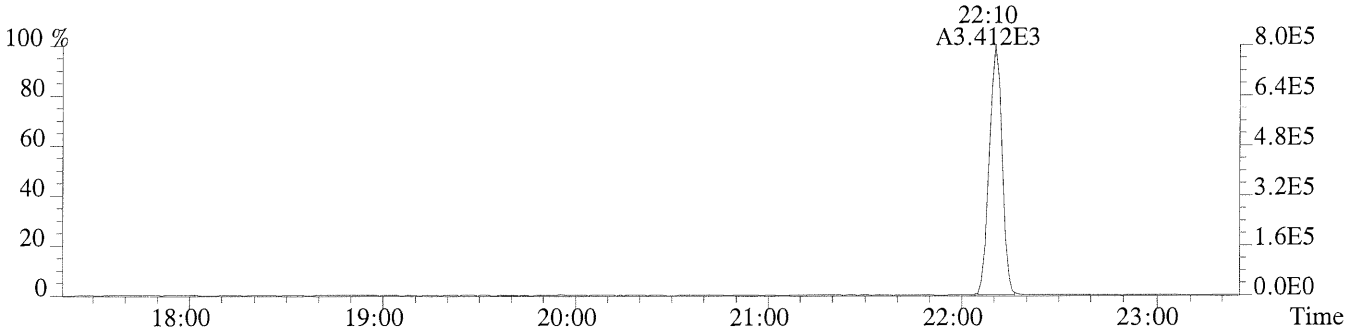
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



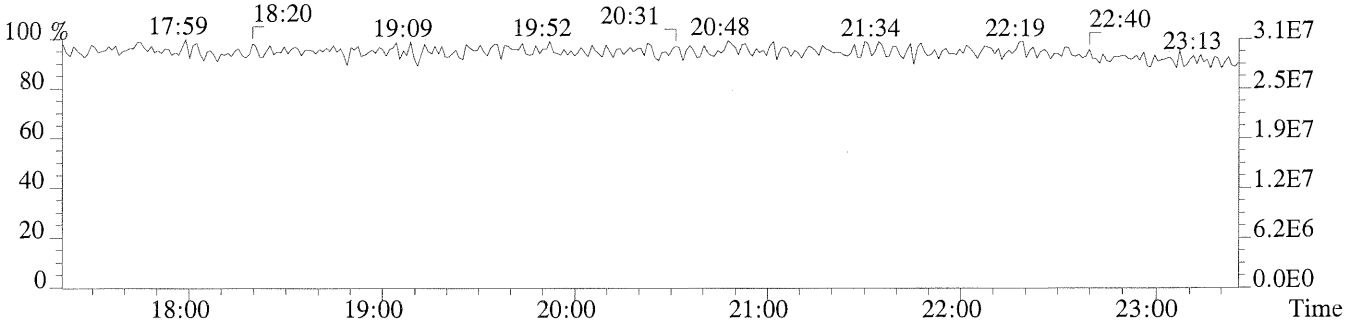
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3744.0,1.00%,F,T)



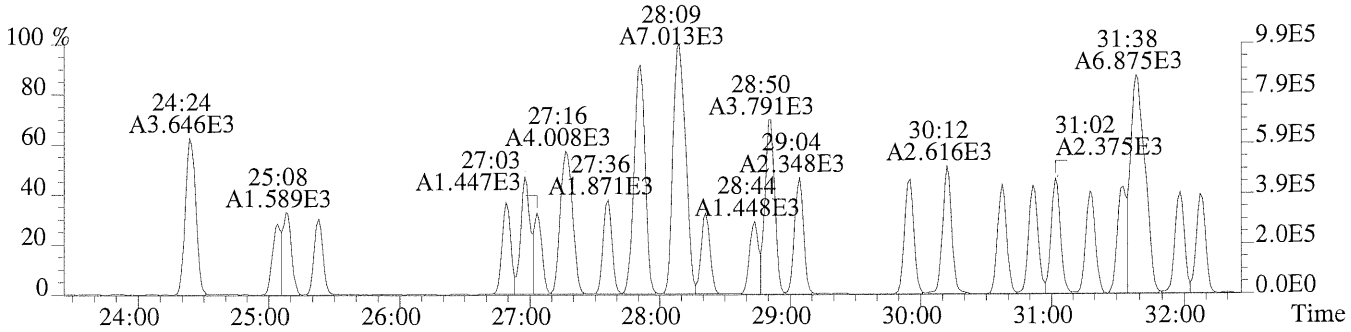
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1736.0,1.00%,F,T)



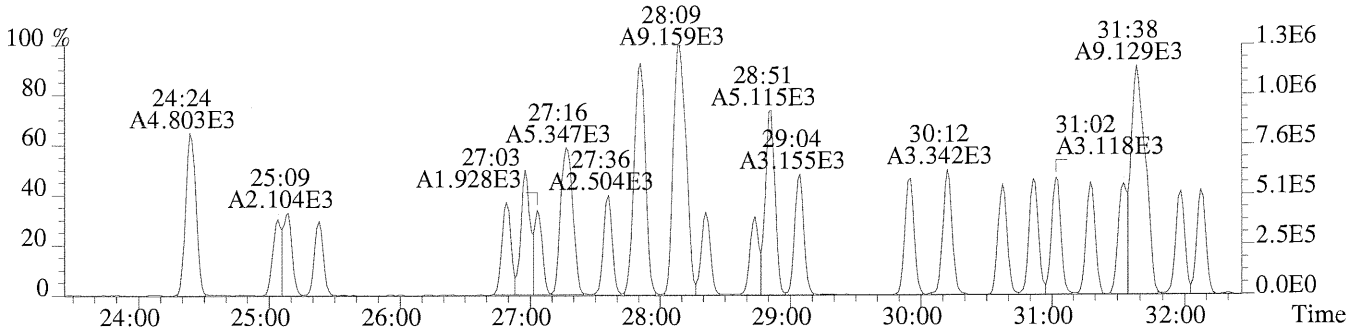
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



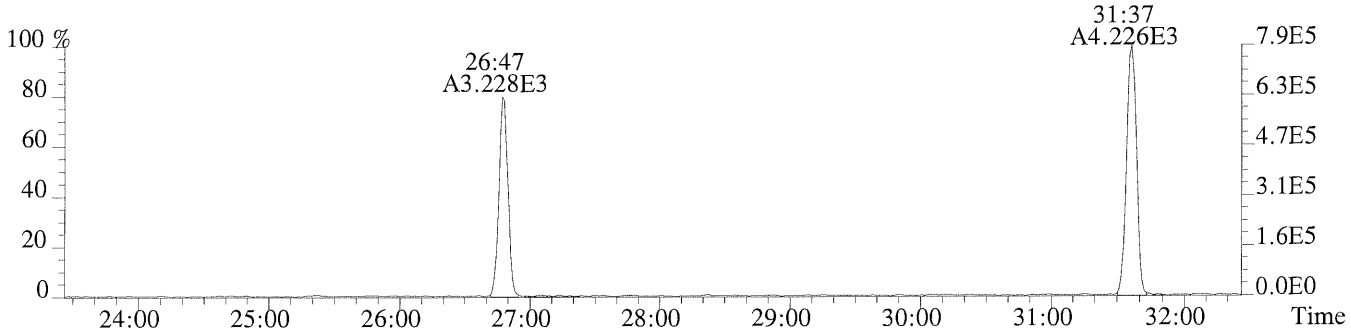
File:U142092 #1-576 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1824.0,1.00%,F,T)



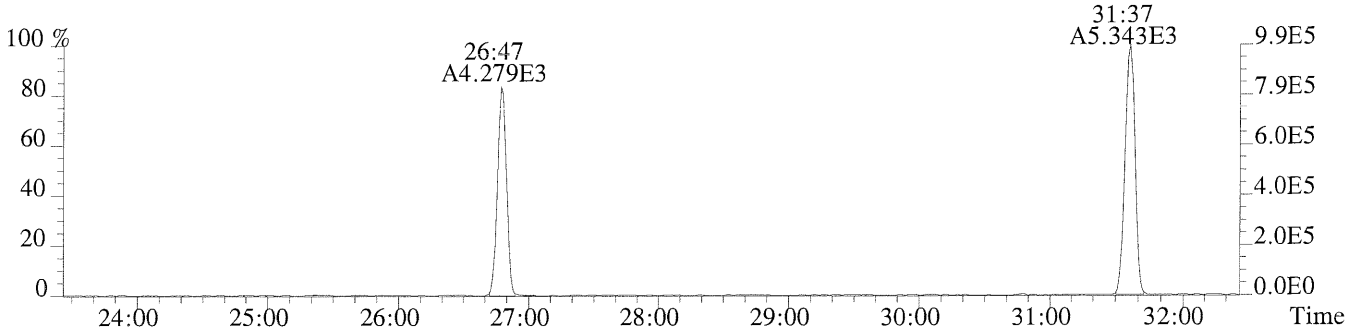
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2012.0,1.00%,F,T)



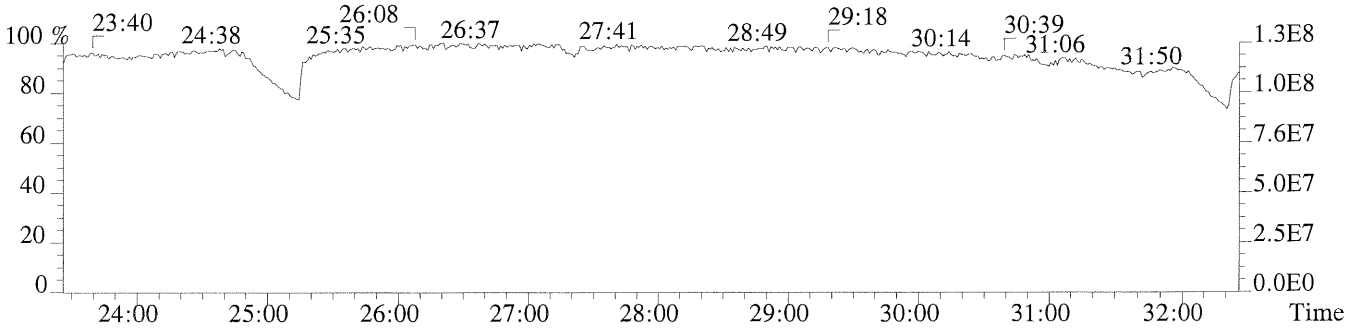
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2812.0,1.00%,F,T)



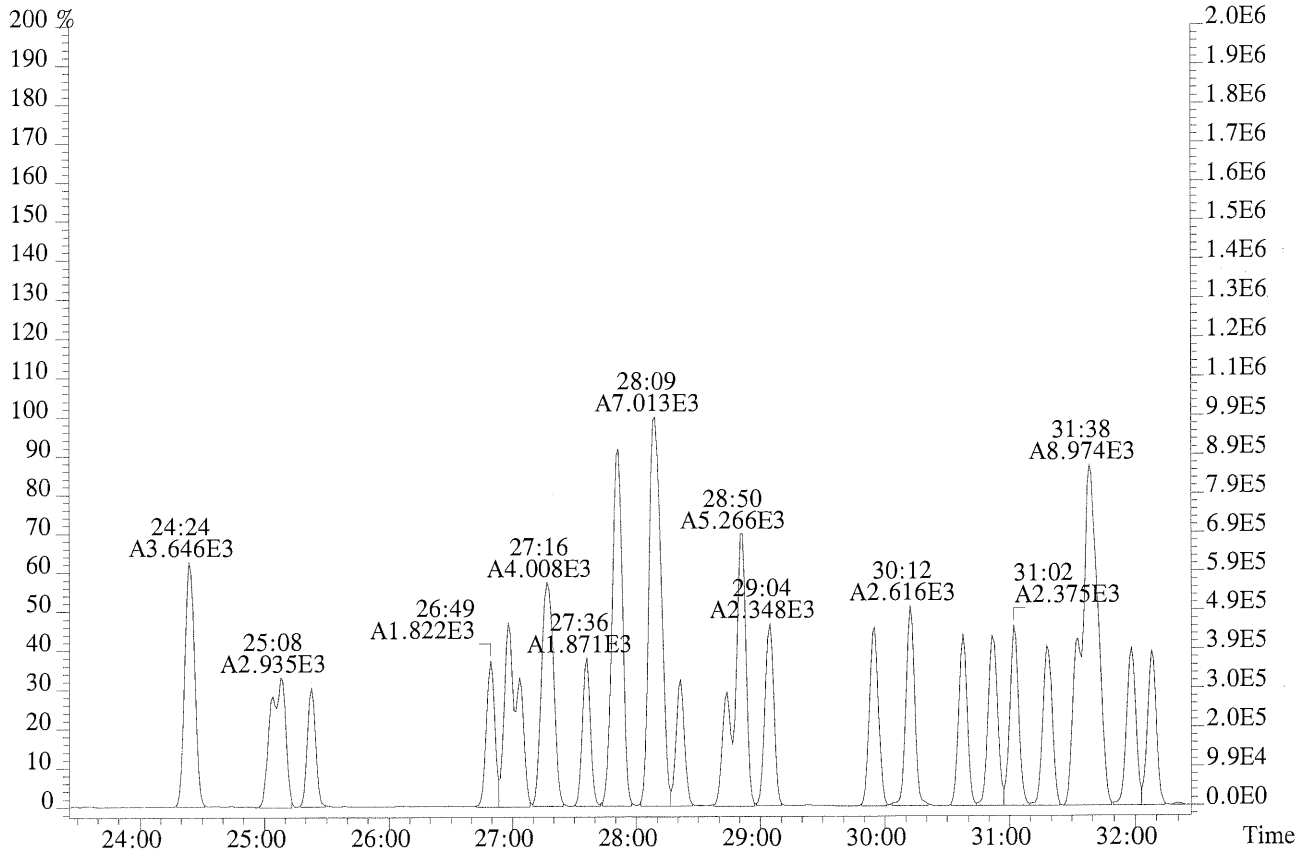
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1616.0,1.00%,F,T)



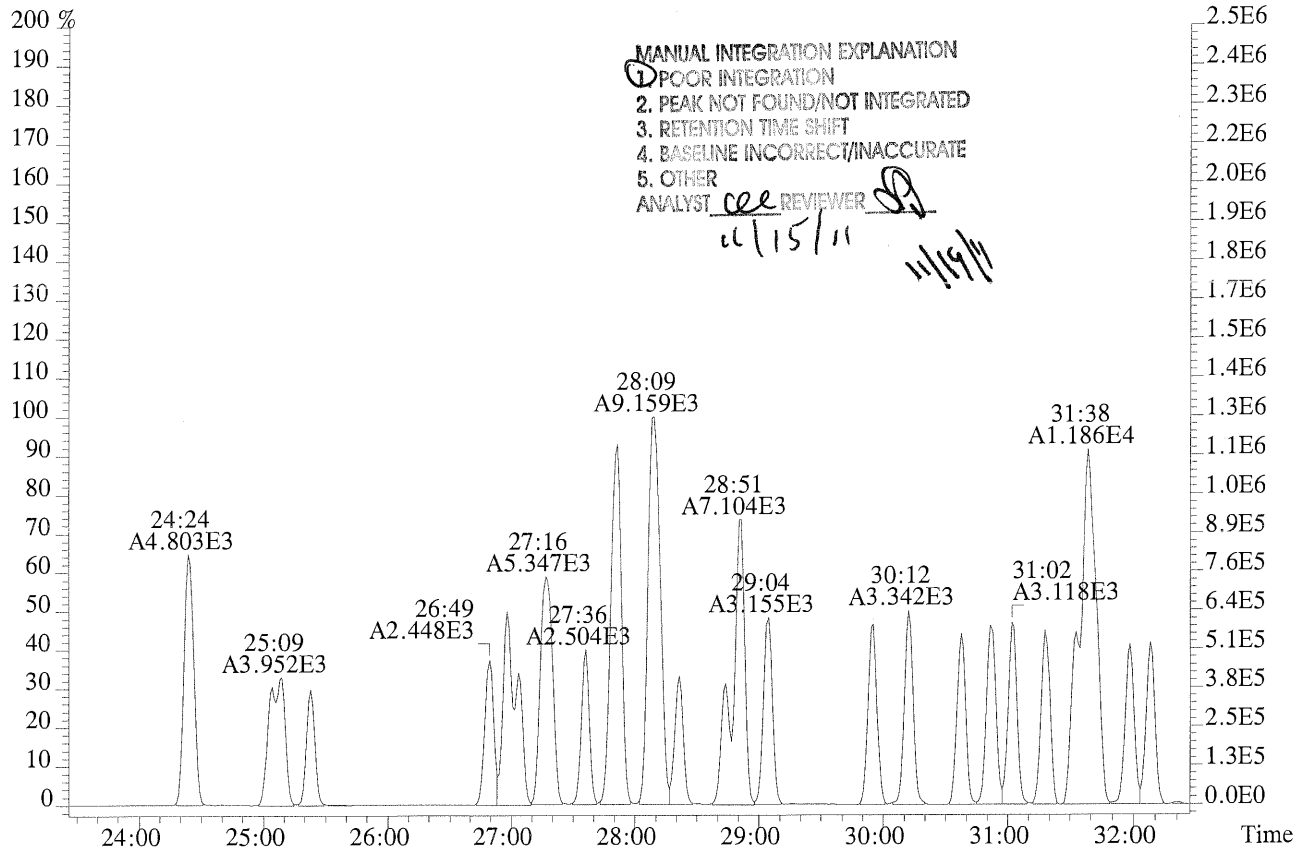
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142092 #1-576 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1824.0,1.00%,F,T)

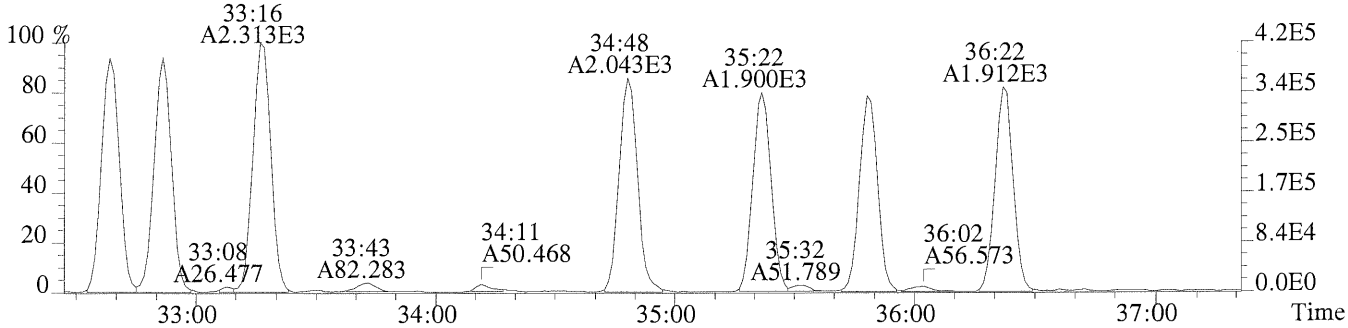


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2012.0,1.00%,F,T)

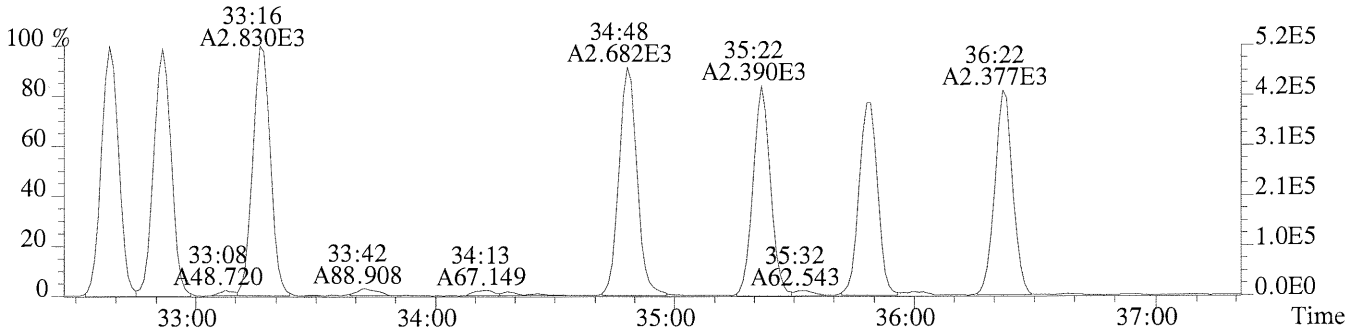


File:U142092 #1-314 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

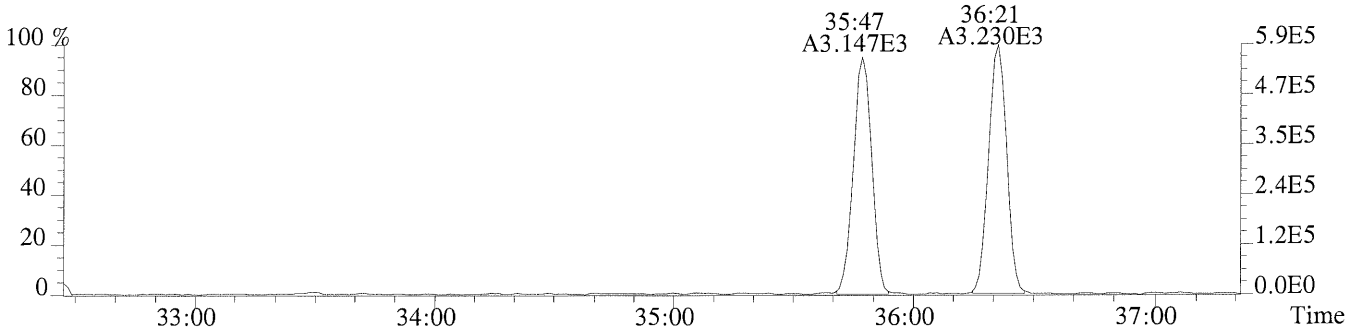
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2428.0,1.00%,F,T)



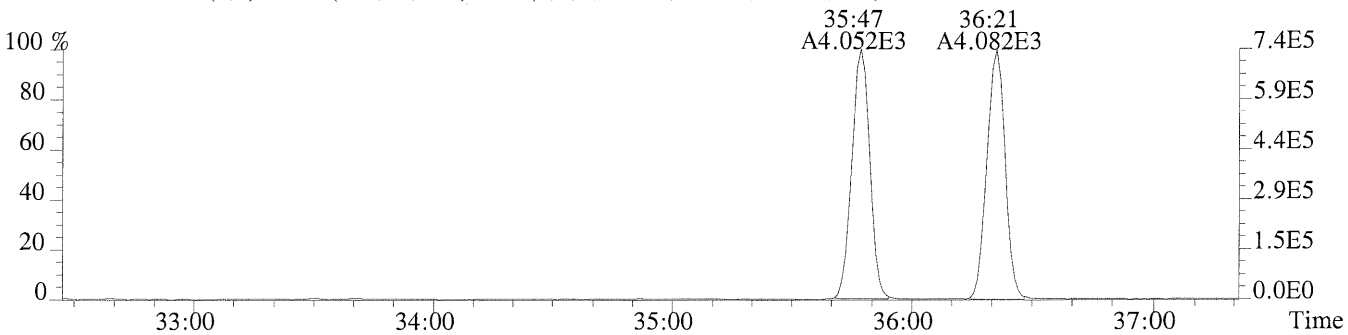
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1784.0,1.00%,F,T)



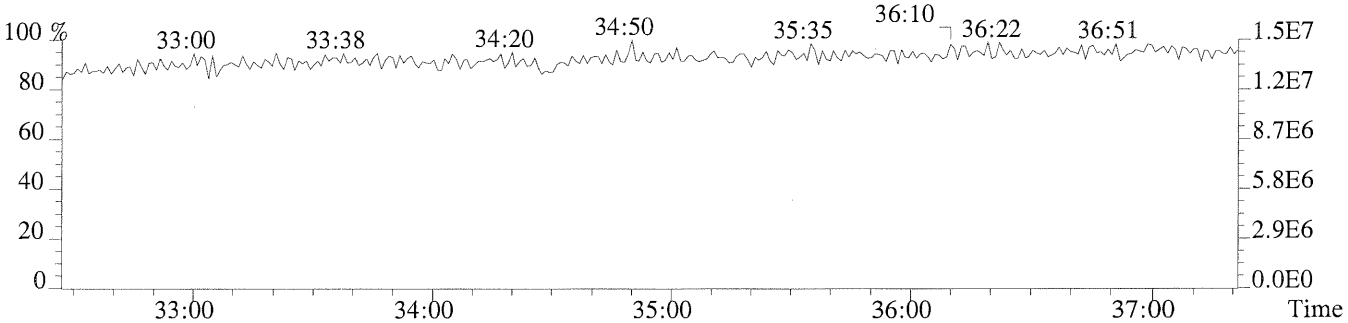
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2748.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1656.0,1.00%,F,T)

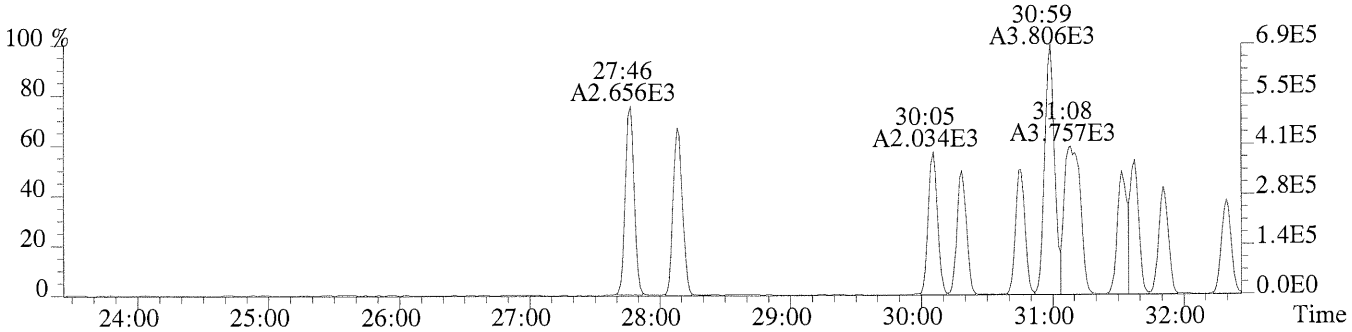


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

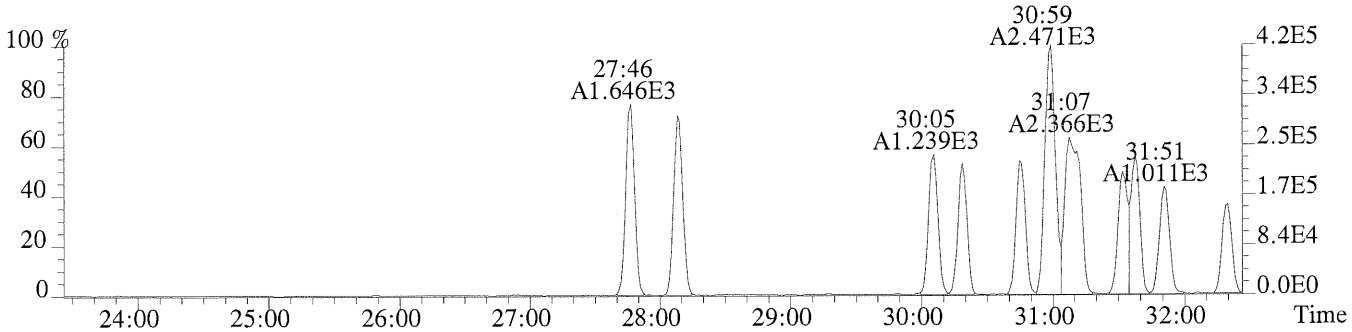


File:U142092 #1-576 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

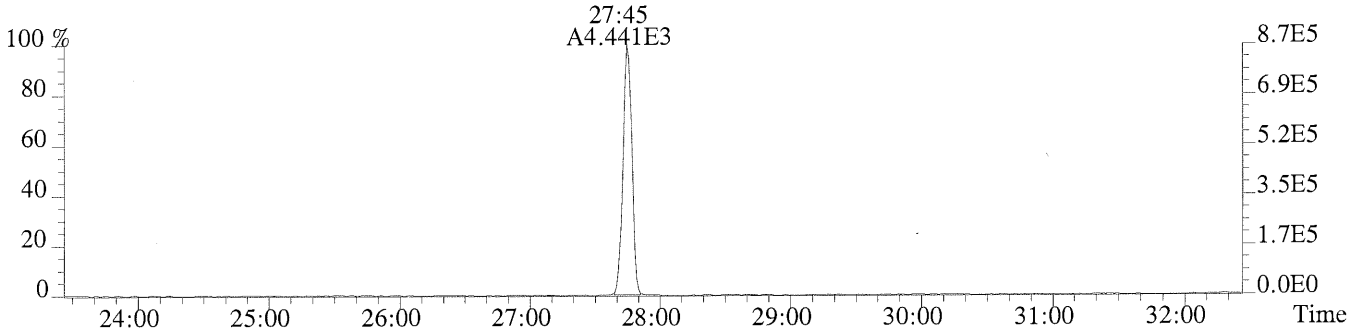
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,T)



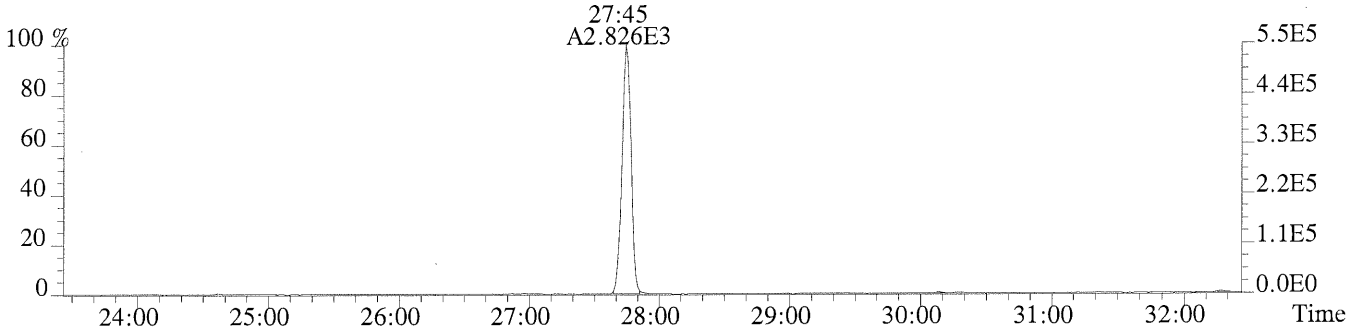
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1296.0,1.00%,F,T)



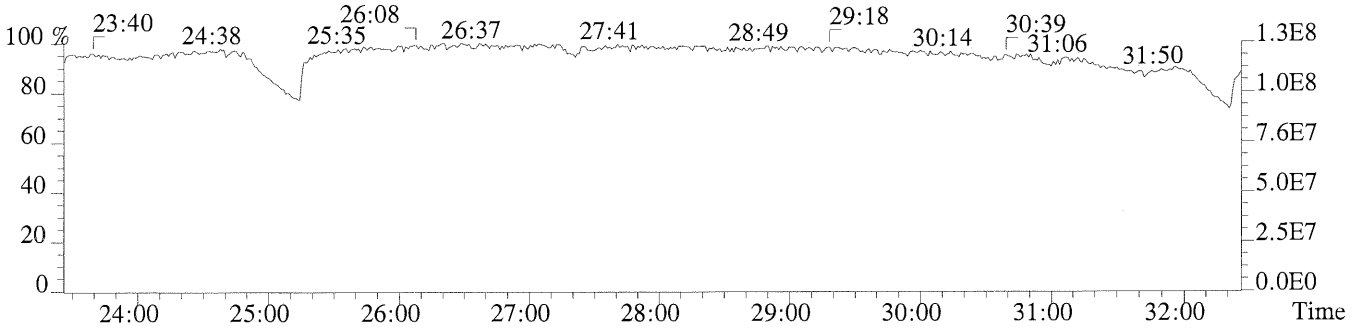
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1416.0,1.00%,F,T)



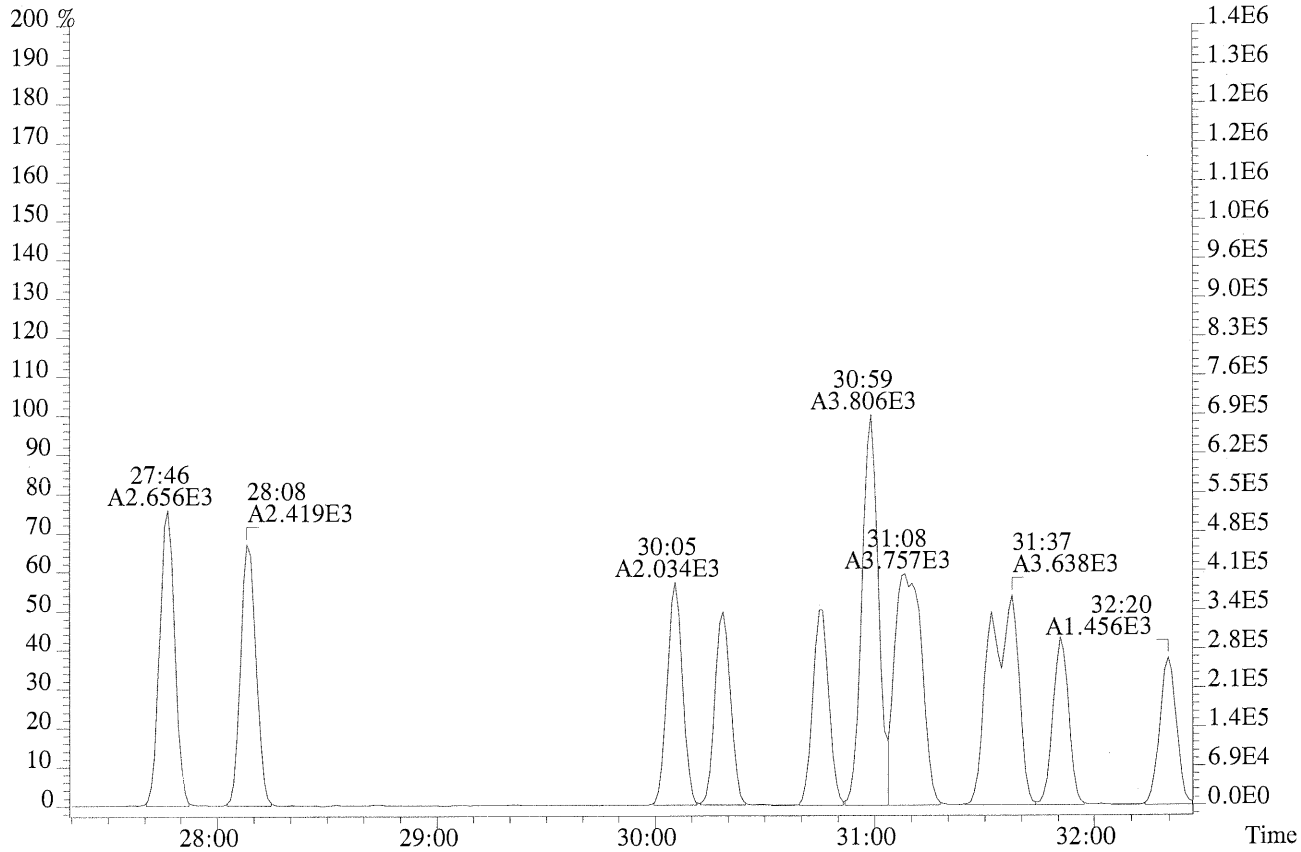
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1636.0,1.00%,F,T)



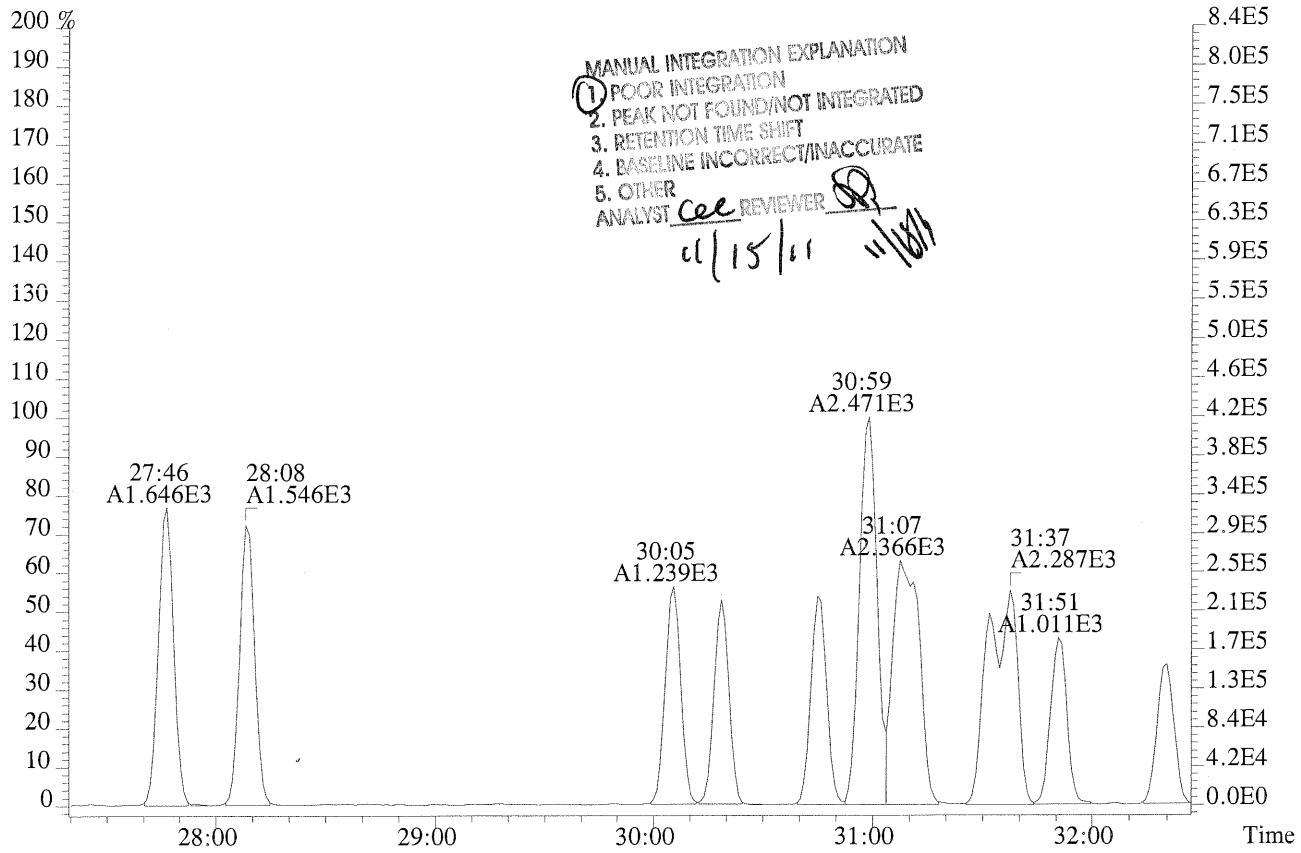
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142092 #1-576 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1028.0,1.00%,F,T)

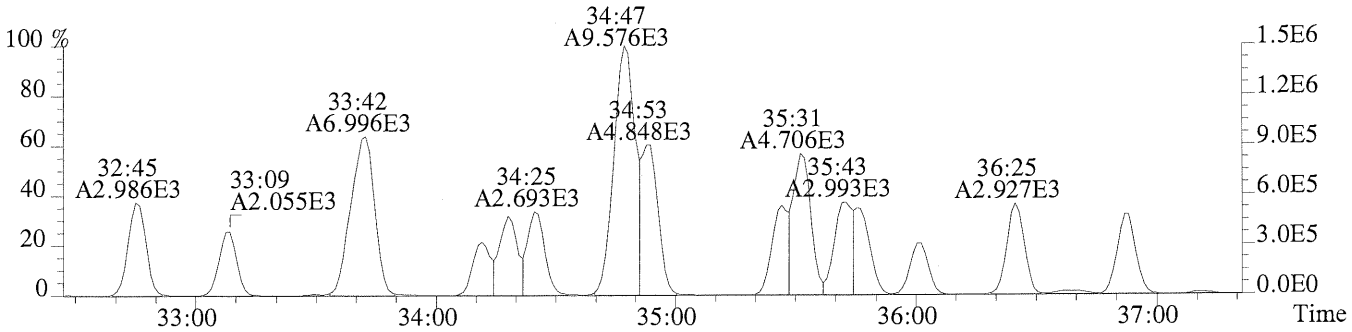


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1296.0,1.00%,F,T)

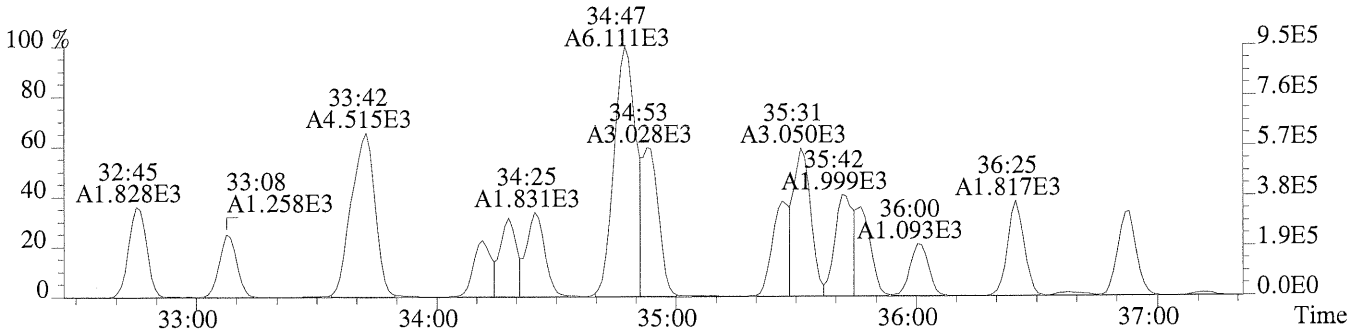


File:U142092 #1-314 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

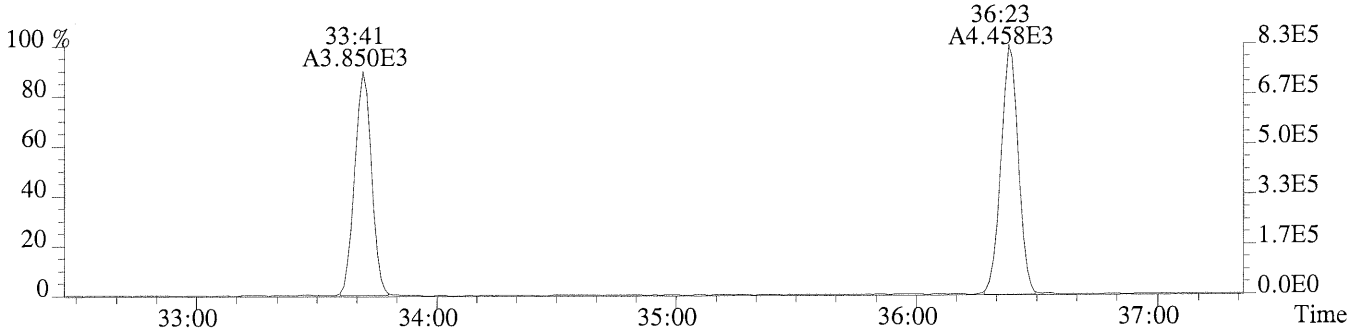
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



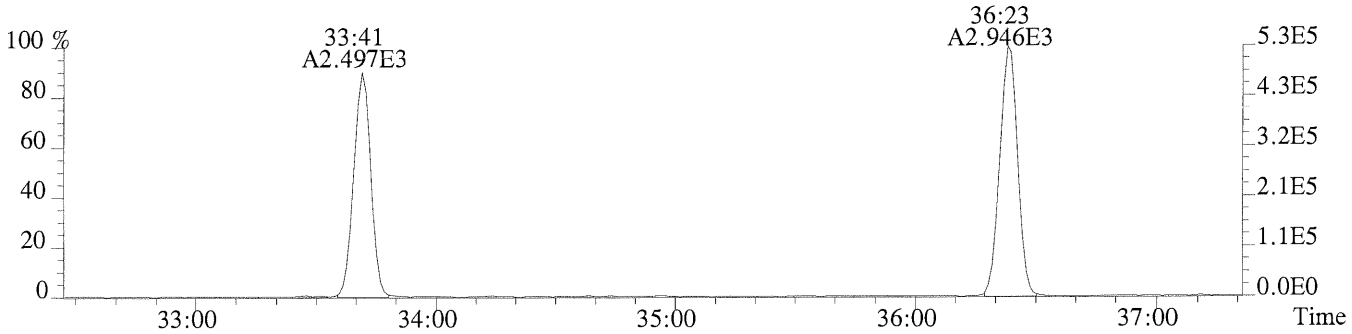
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)



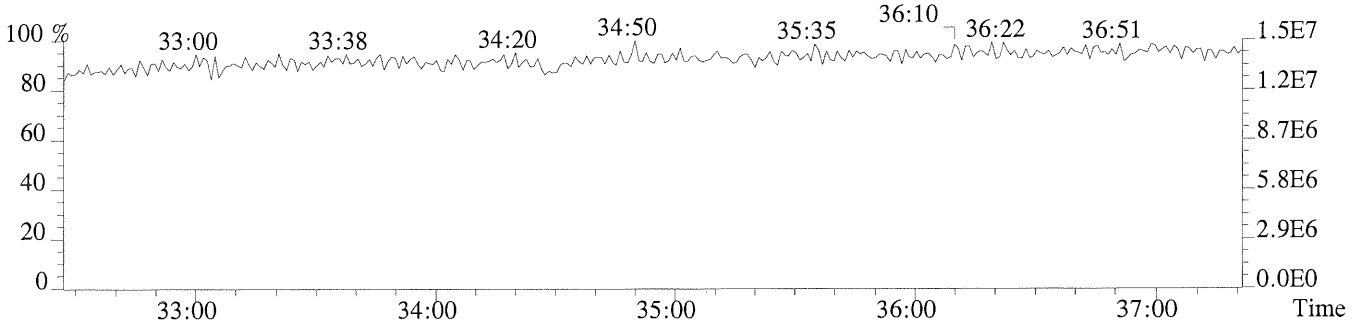
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1760.0,1.00%,F,T)



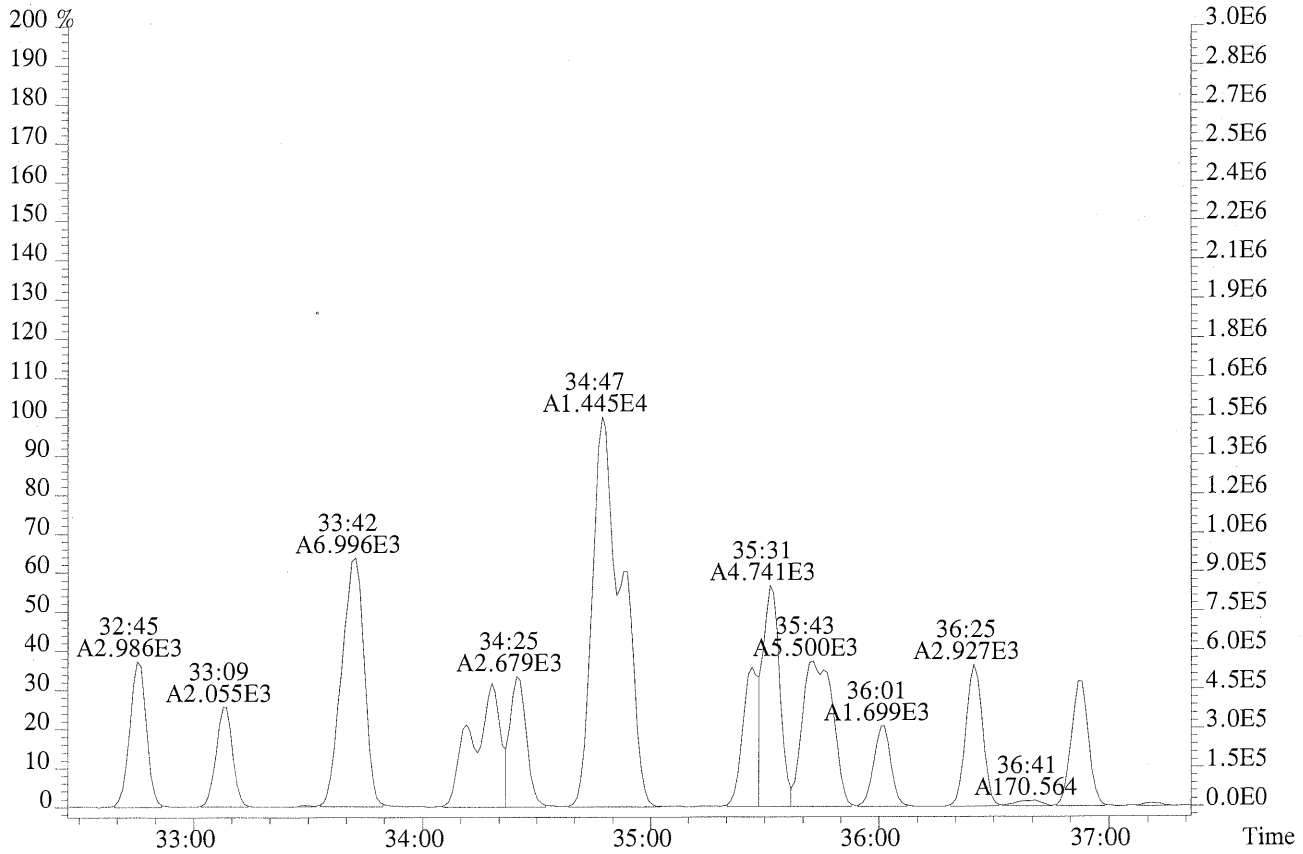
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1404.0,1.00%,F,T)



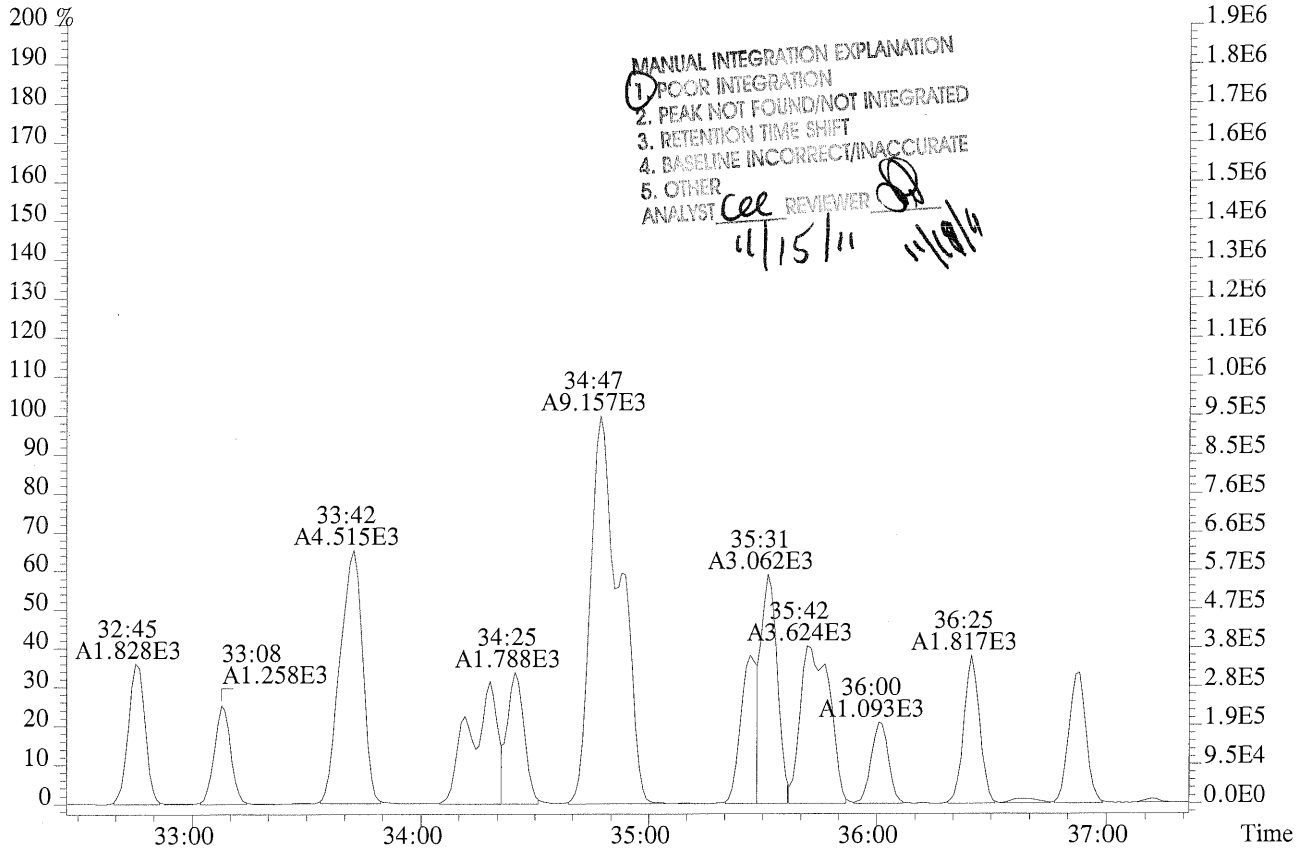
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142092 #1-314 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



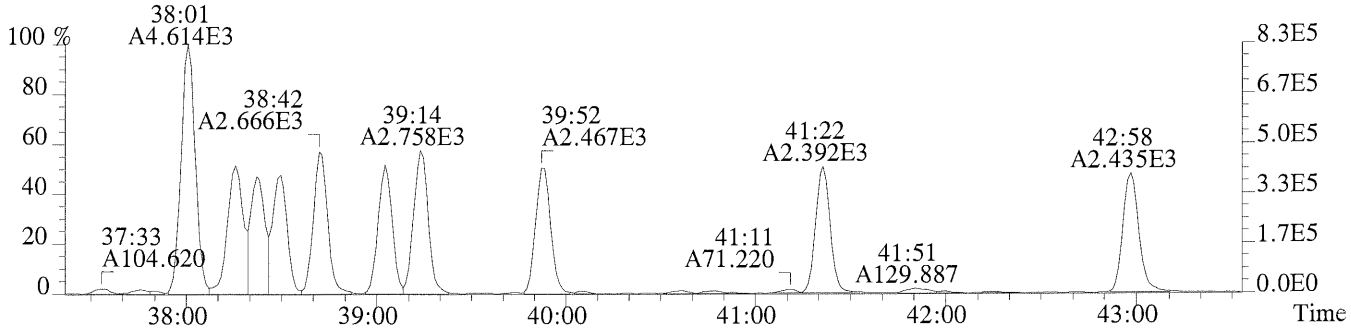
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)



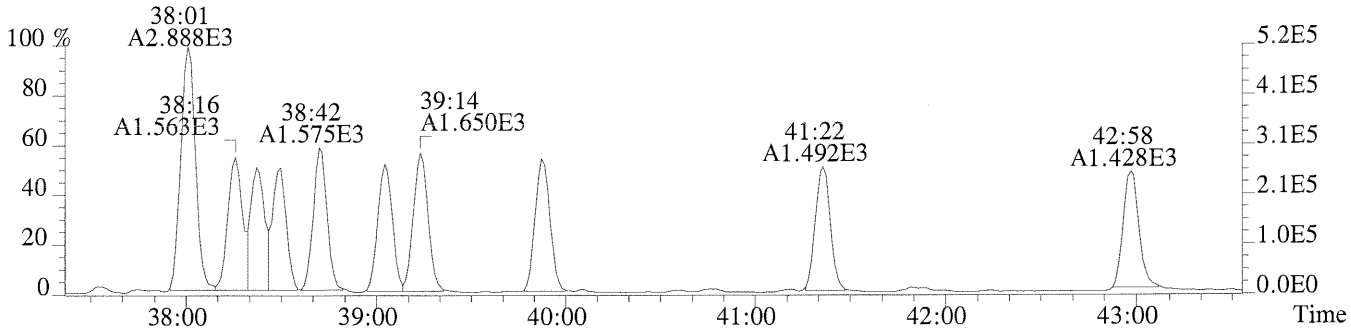
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Cee REVIEWER
11/15/11 11/18/11

File:U142092 #1-396 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

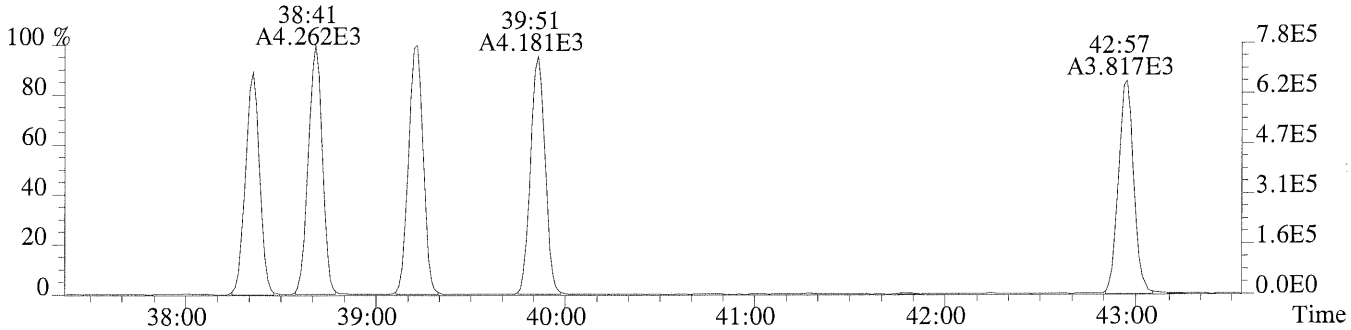
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1616.0,1.00%,F,T)



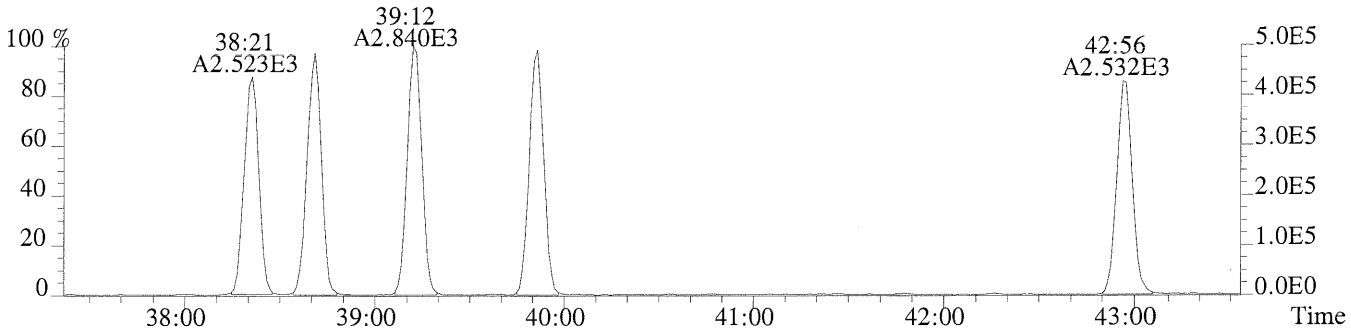
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9624.0,1.00%,F,T)



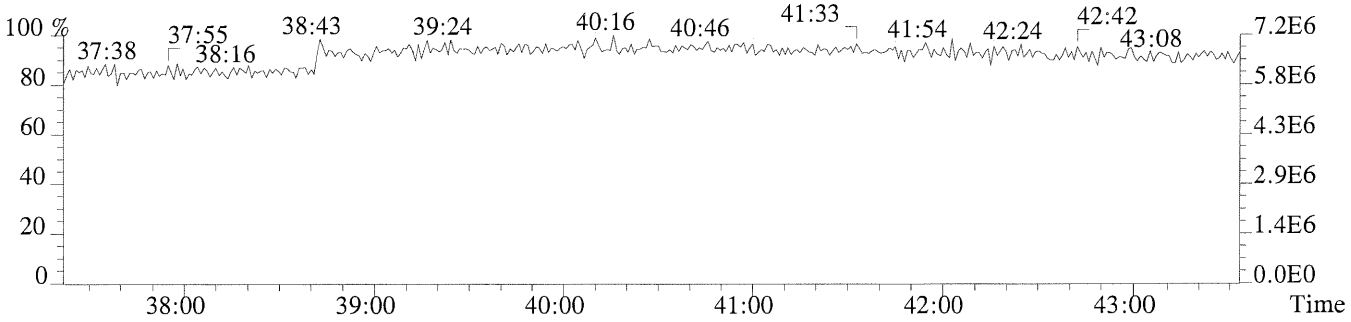
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1960.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1944.0,1.00%,F,T)

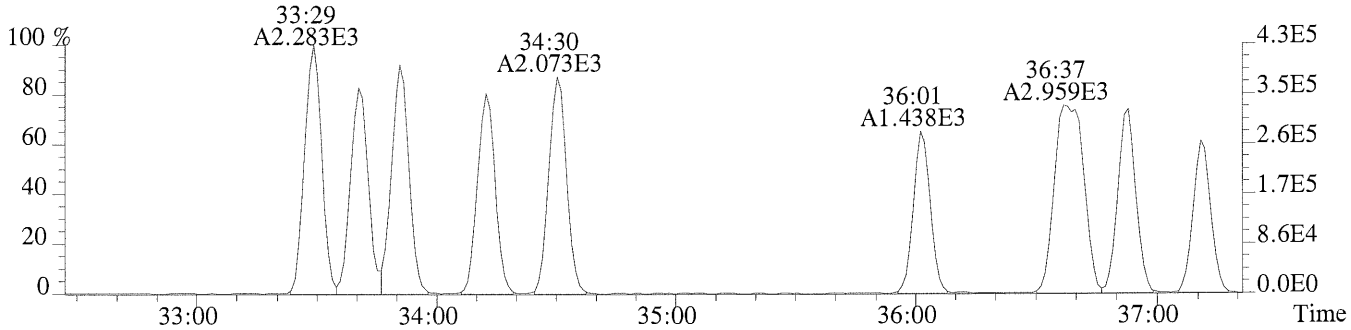


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

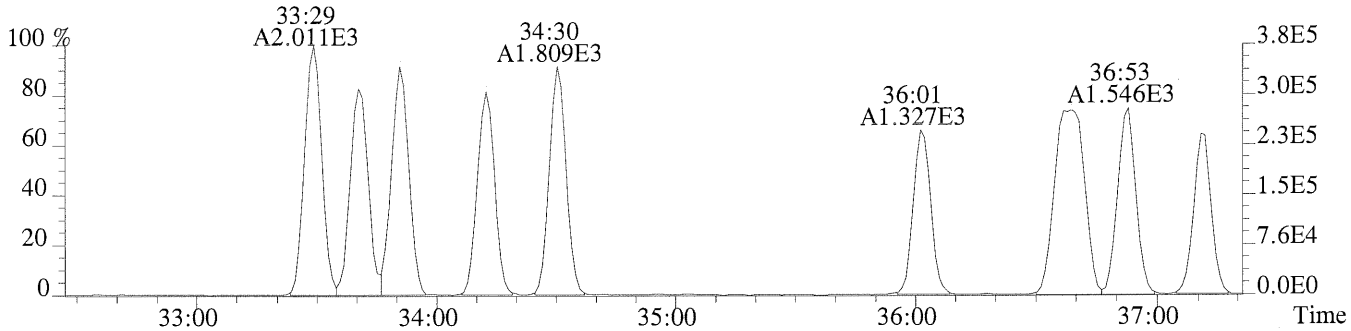


File:U142092 #1-314 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

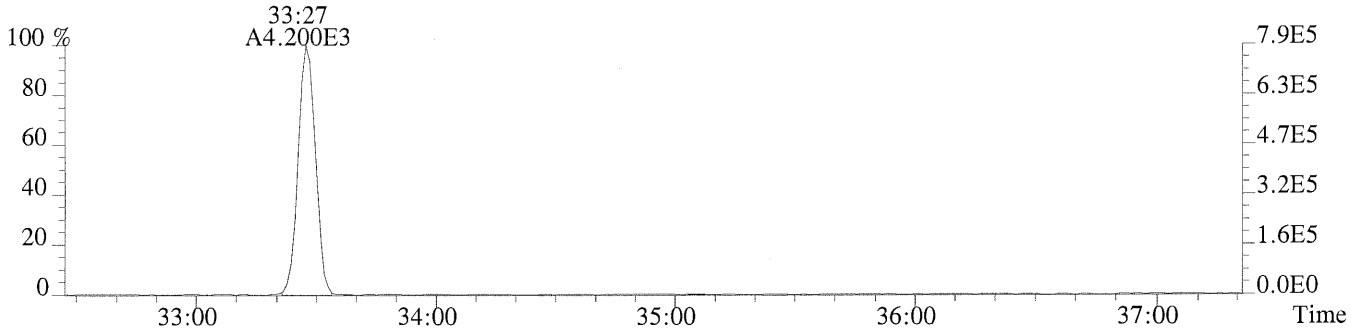
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)



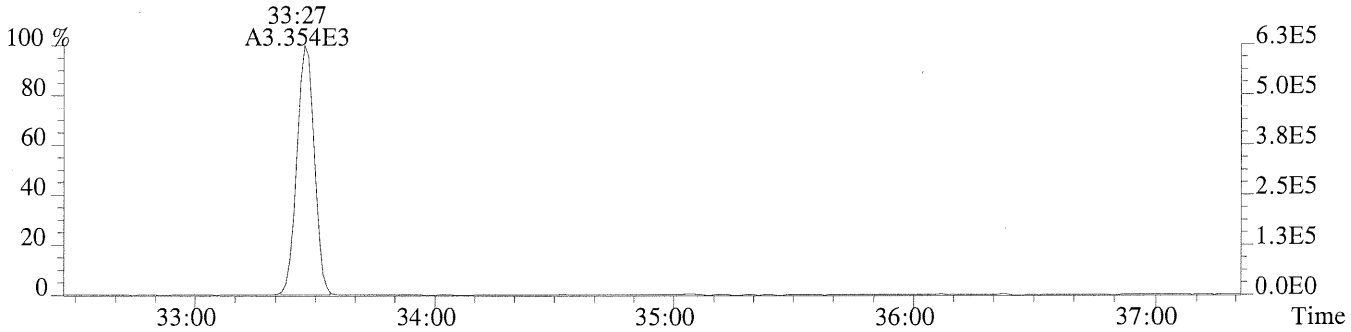
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



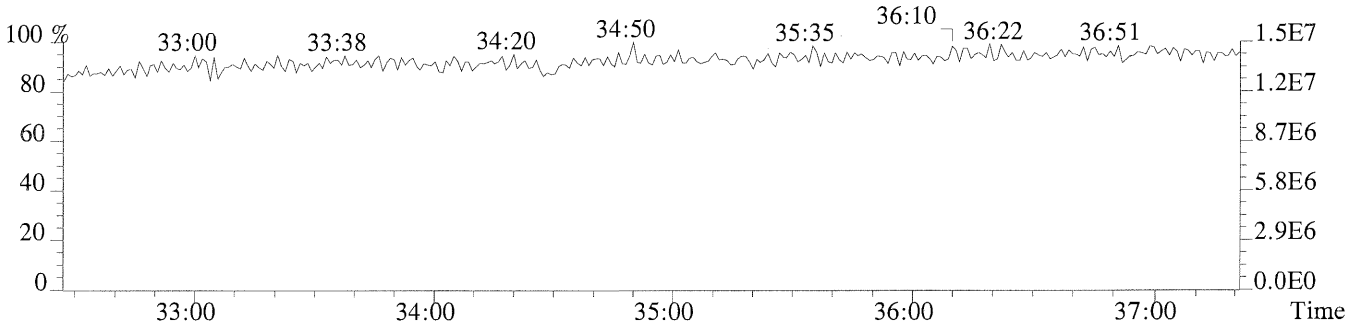
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1412.0,1.00%,F,T)



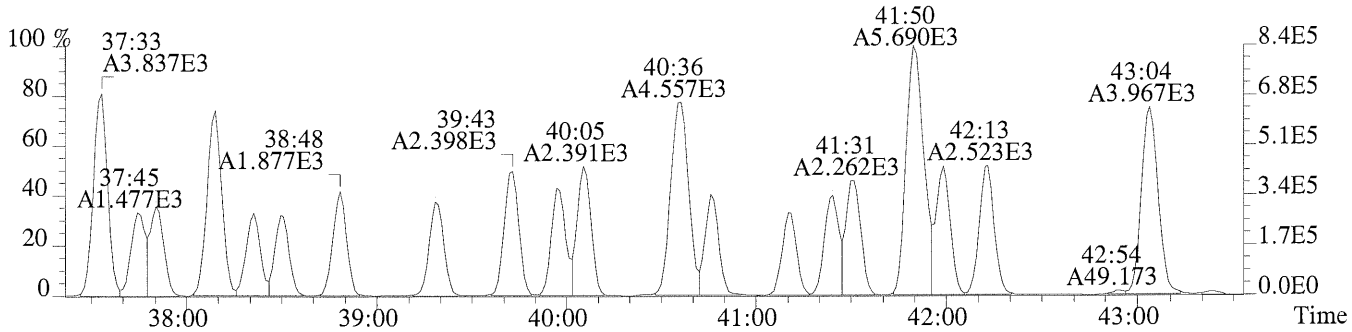
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1720.0,1.00%,F,T)



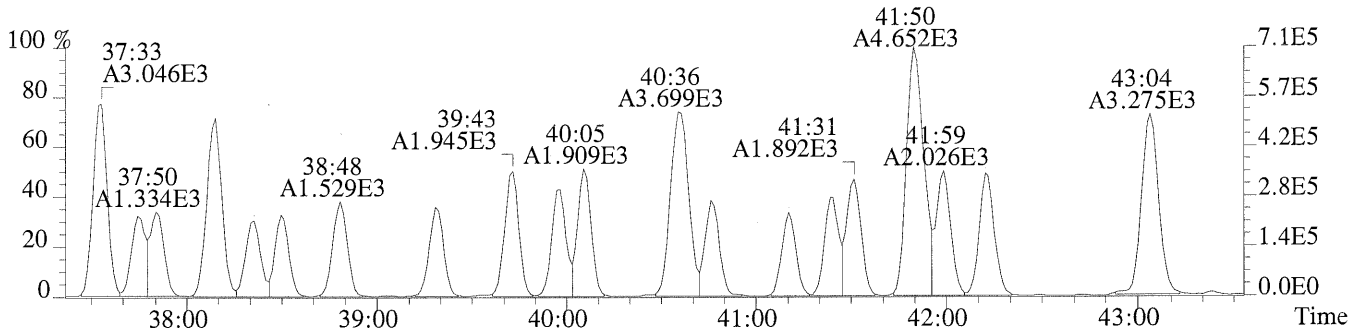
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



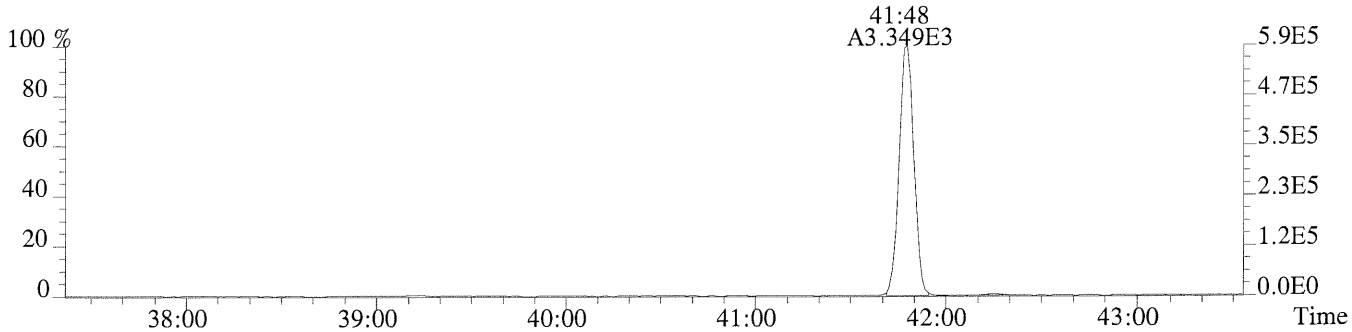
File:U142092 #1-396 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2292.0,1.00%,F,T)



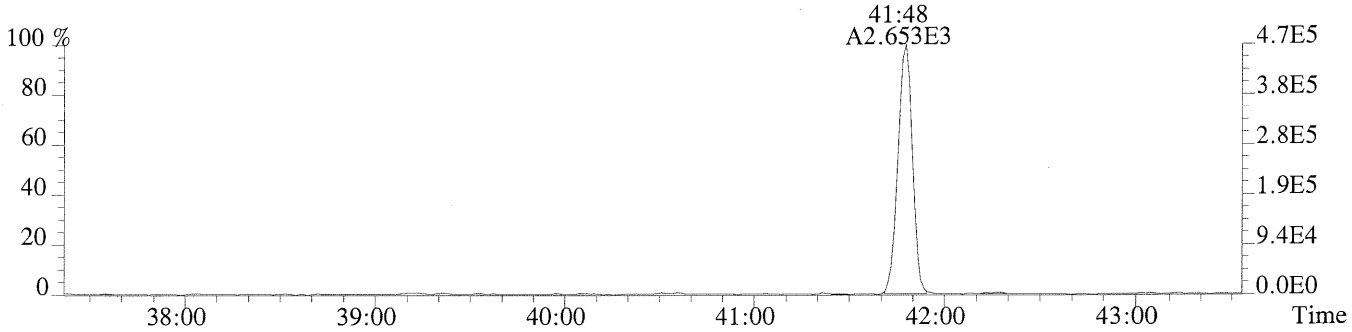
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4100.0,1.00%,F,T)



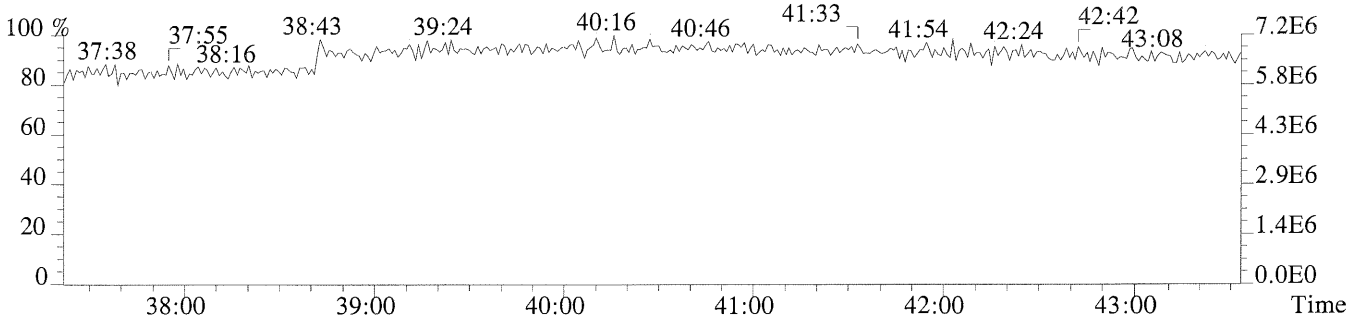
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1396.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1492.0,1.00%,F,T)

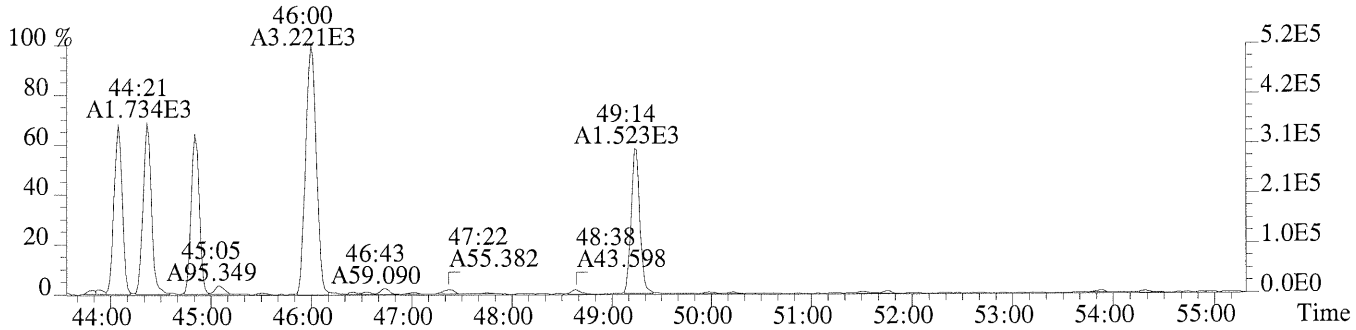


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

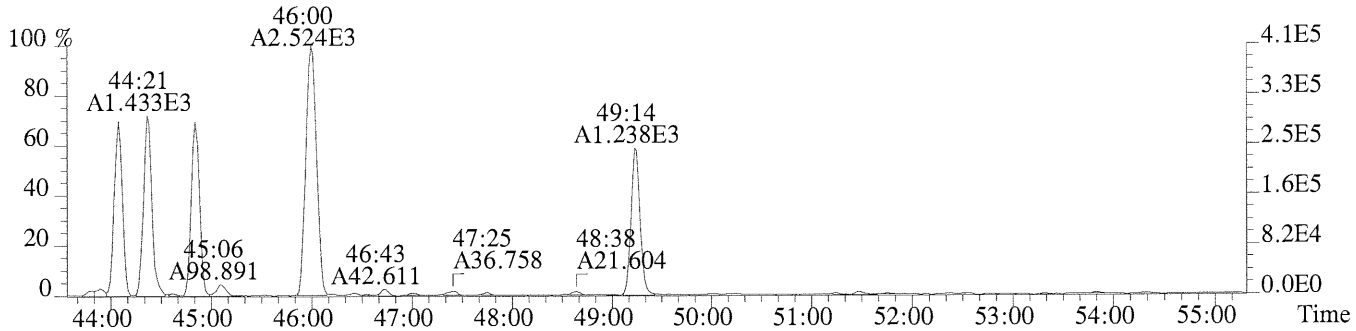


File:U142092 #1-582 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

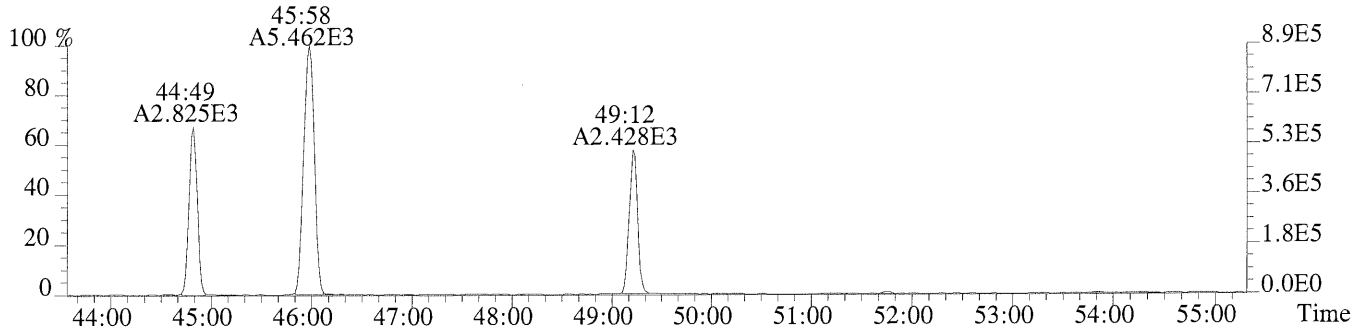
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)



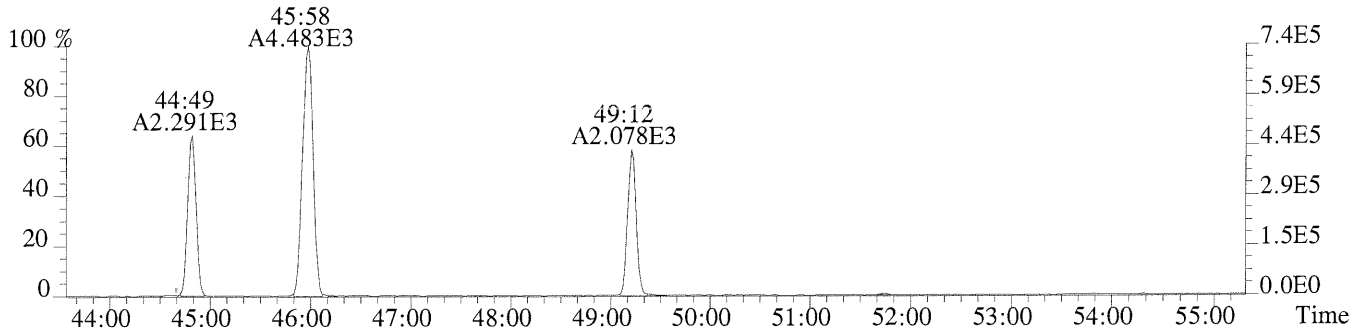
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1128.0,1.00%,F,T)



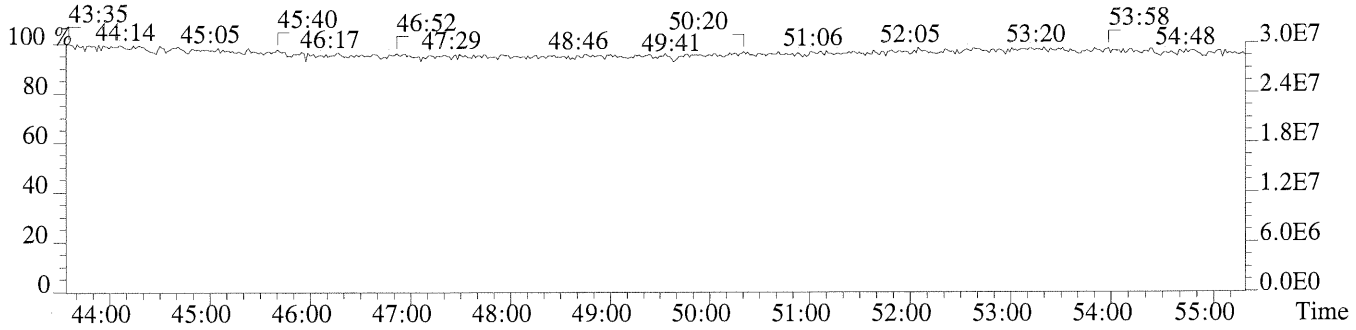
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1552.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1640.0,1.00%,F,T)

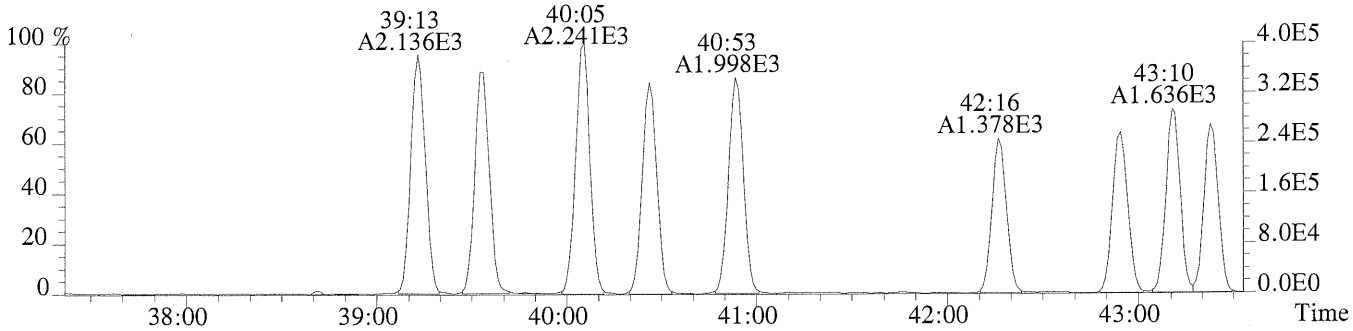


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

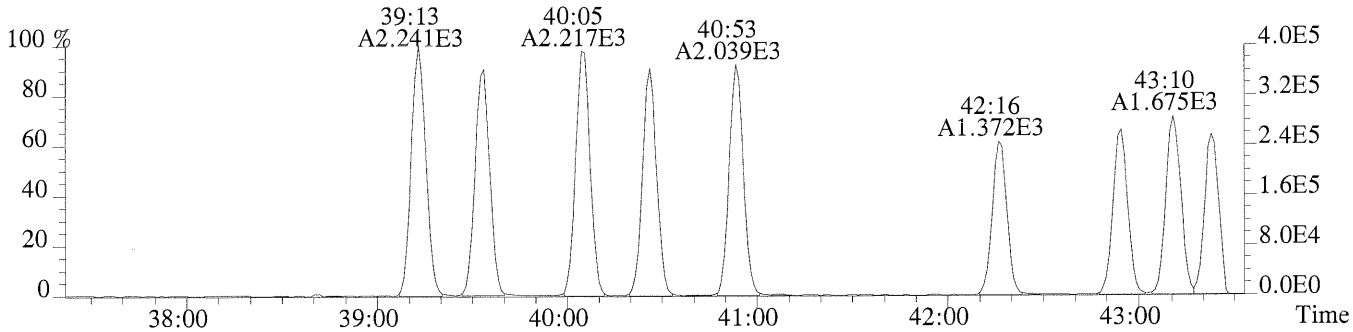


File:U142092 #1-396 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

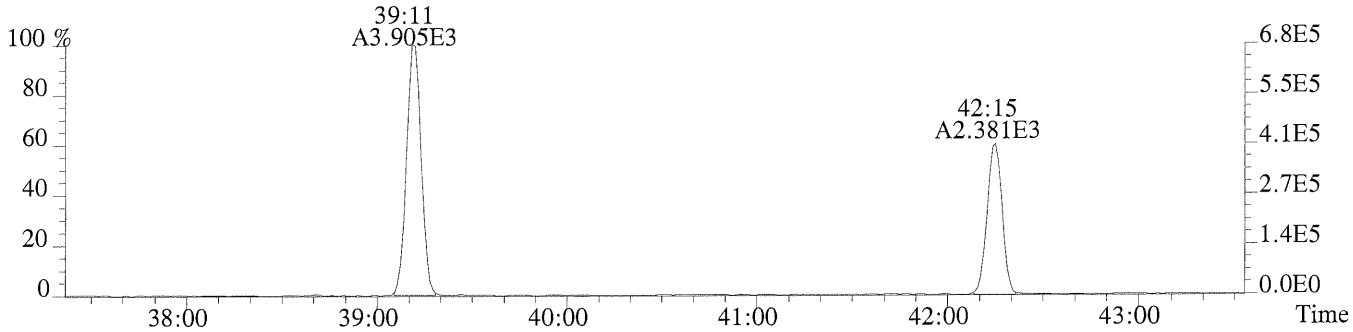
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1100.0,1.00%,F,T)



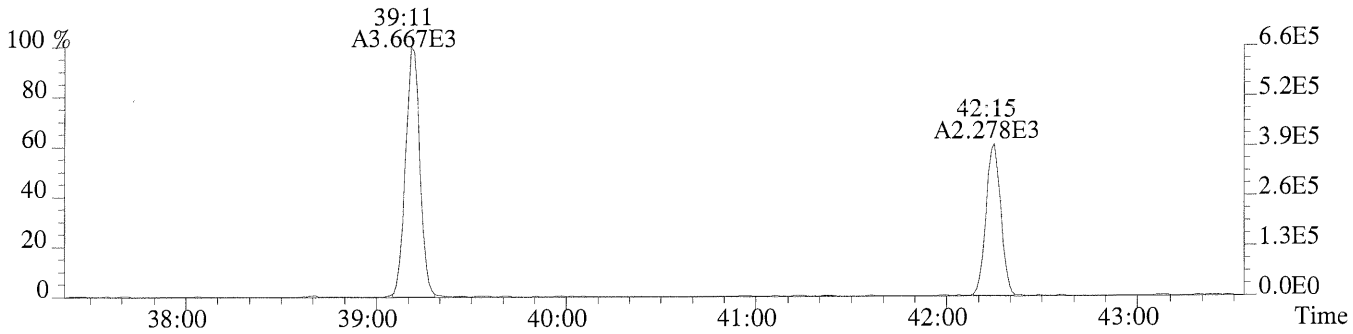
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,748.0,1.00%,F,T)



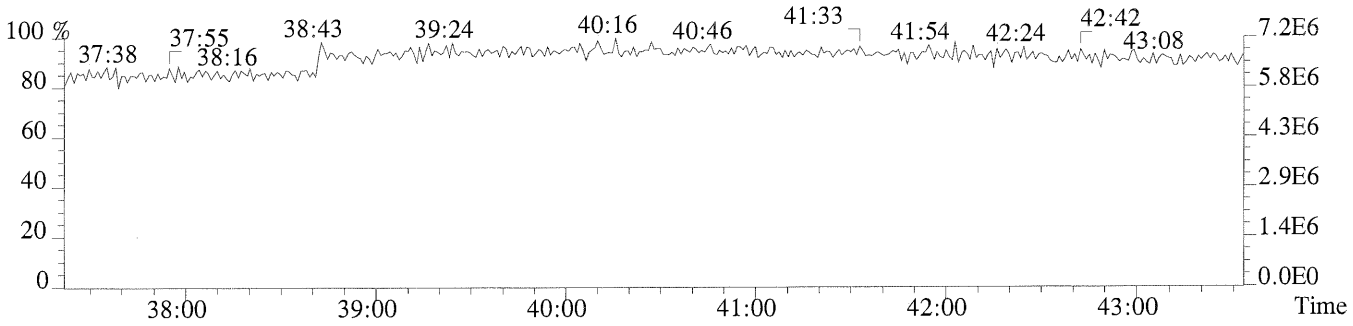
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1268.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)

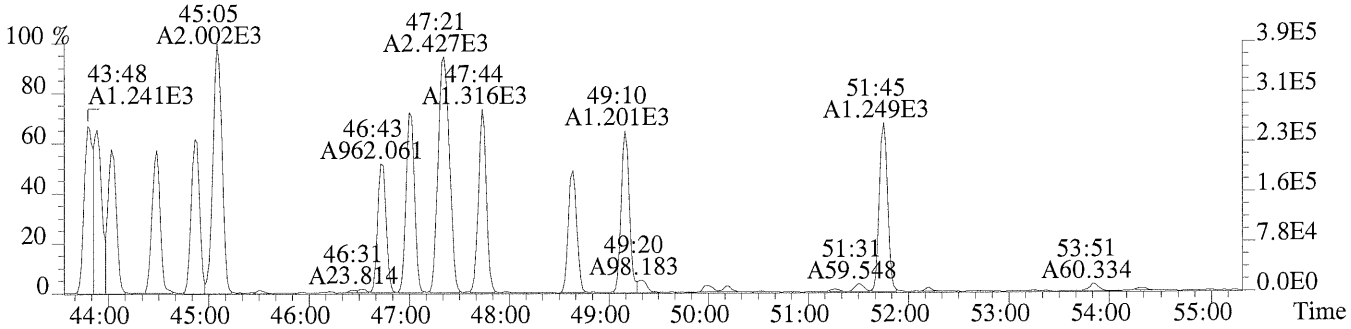


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

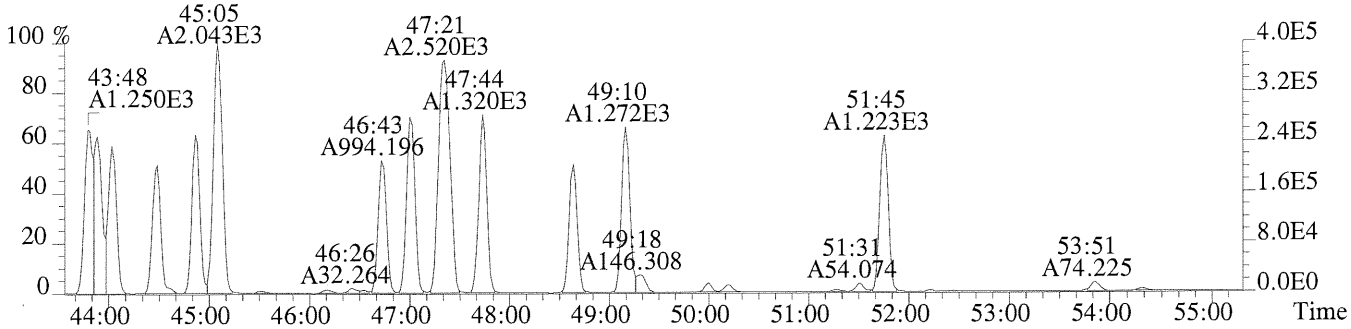


File:U142092 #1-582 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

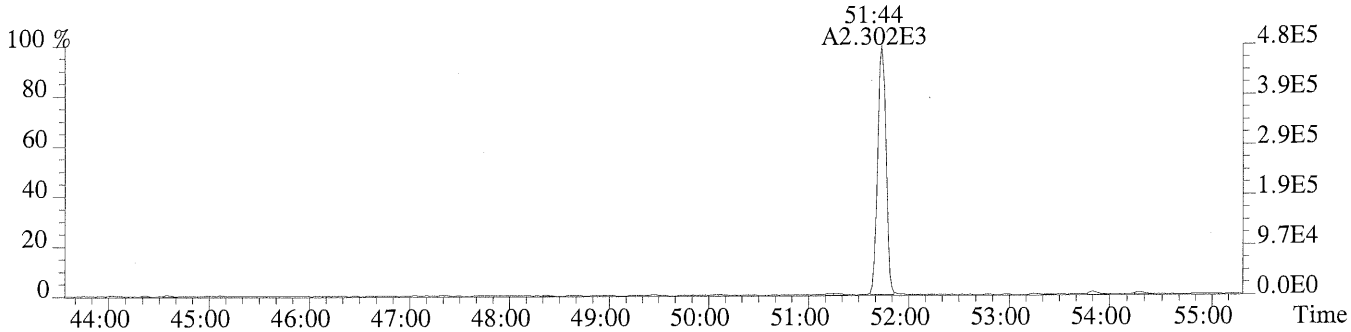
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1276.0,1.00%,F,T)



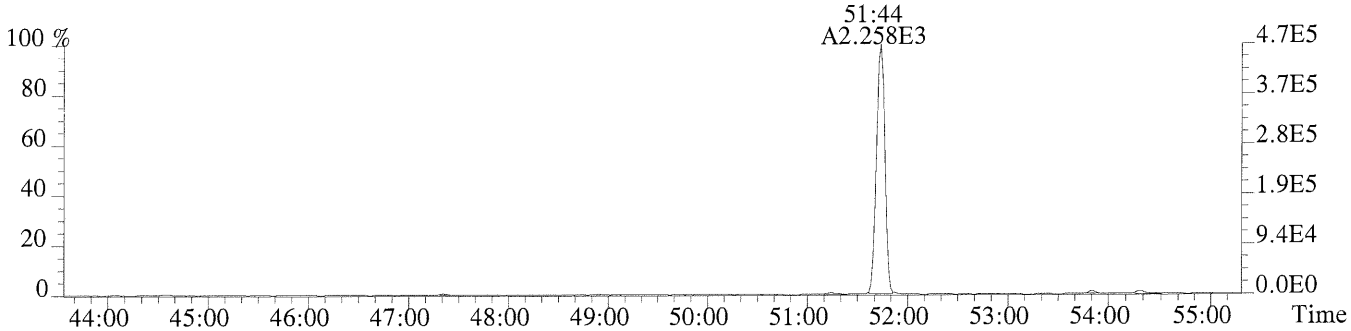
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



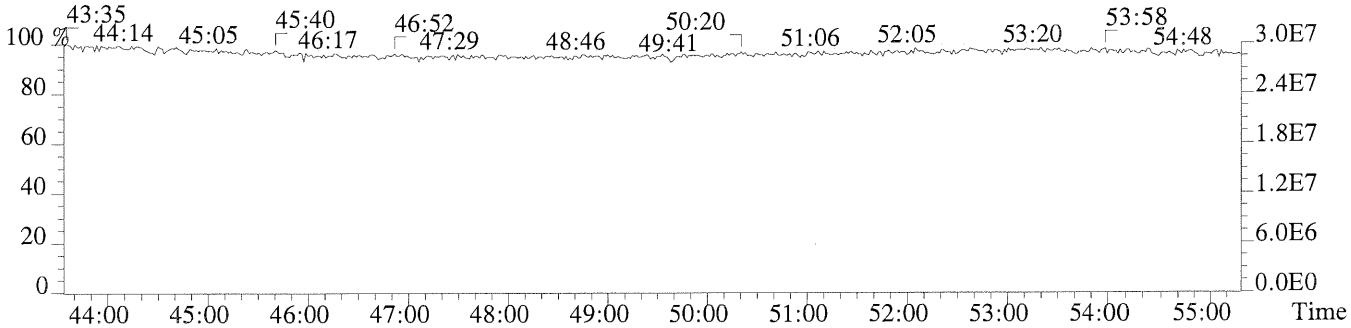
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1148.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1160.0,1.00%,F,T)

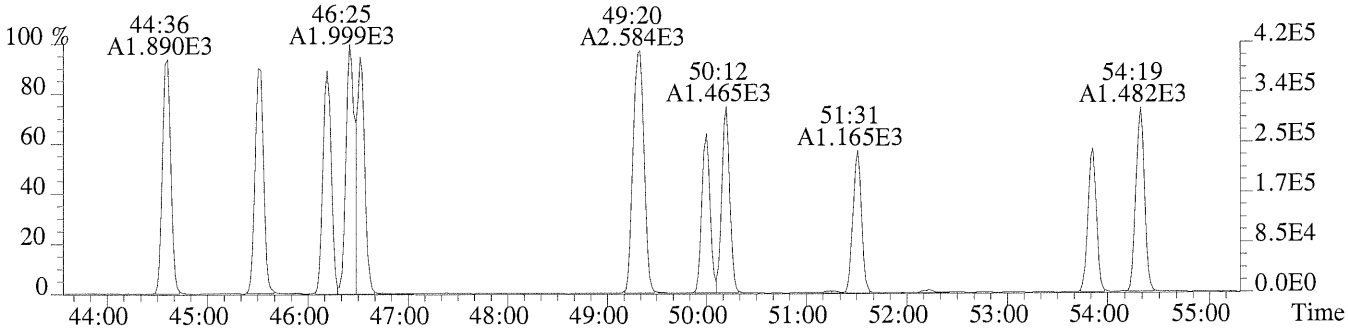


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

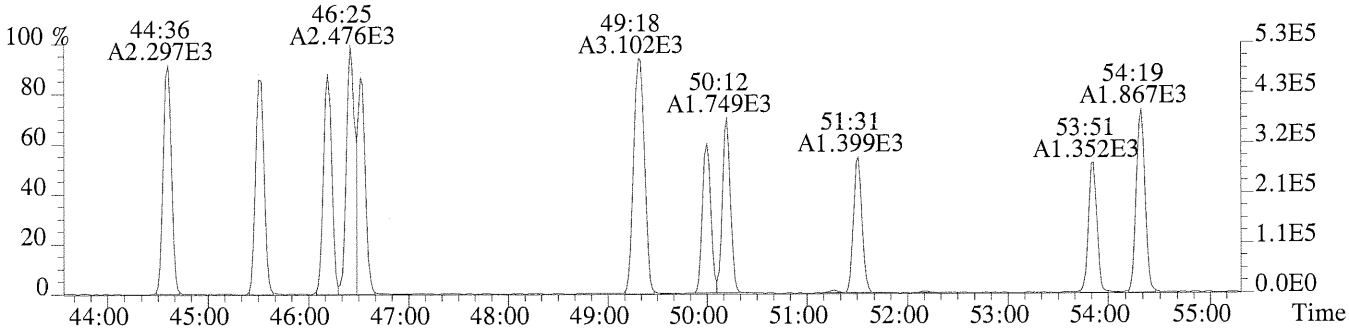


File:U142092 #1-582 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

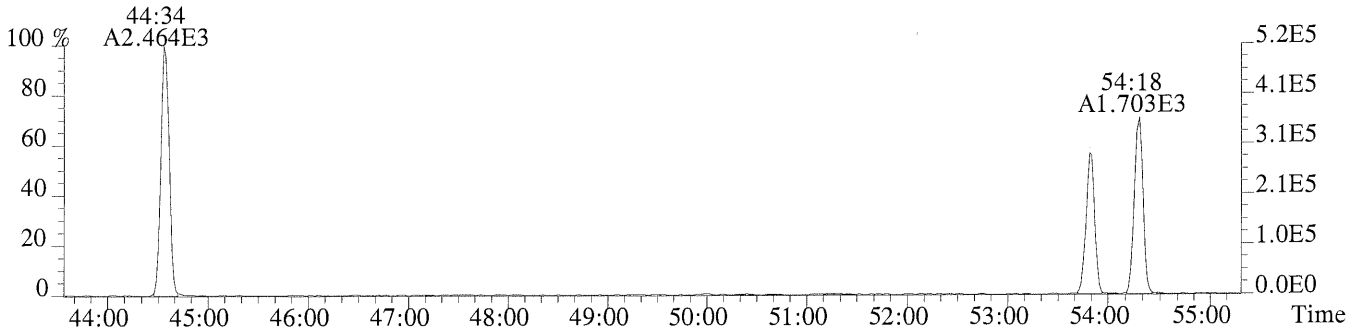
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)



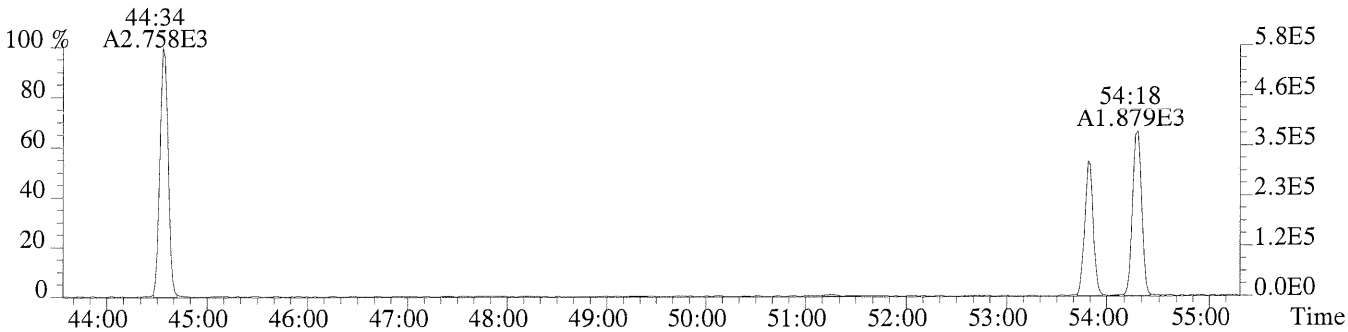
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)



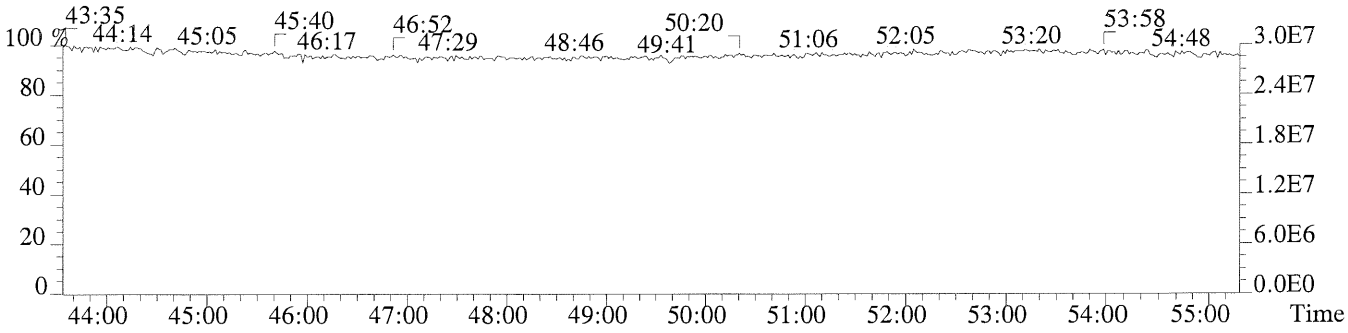
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868.0,1.00%,F,T)

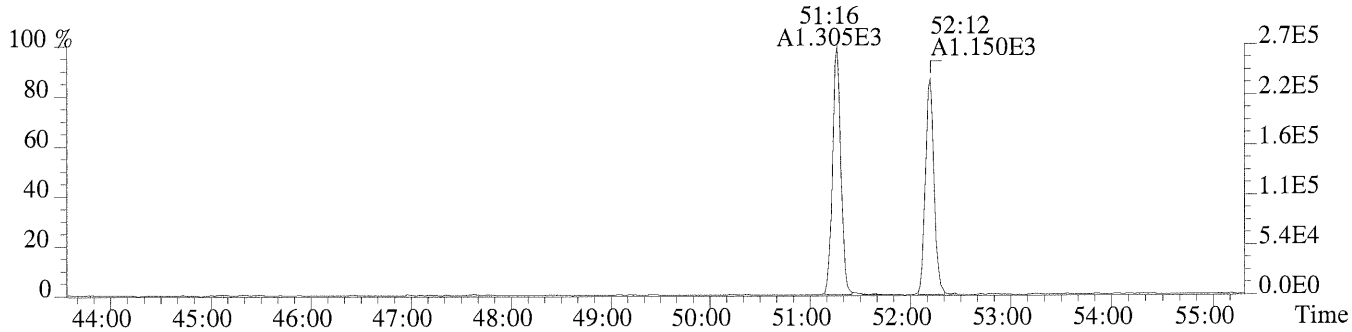


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

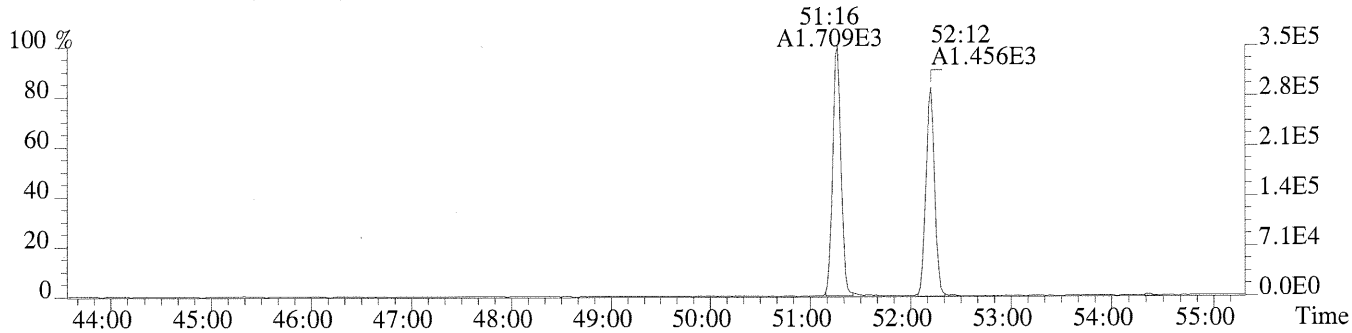


File:U142092 #1-582 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

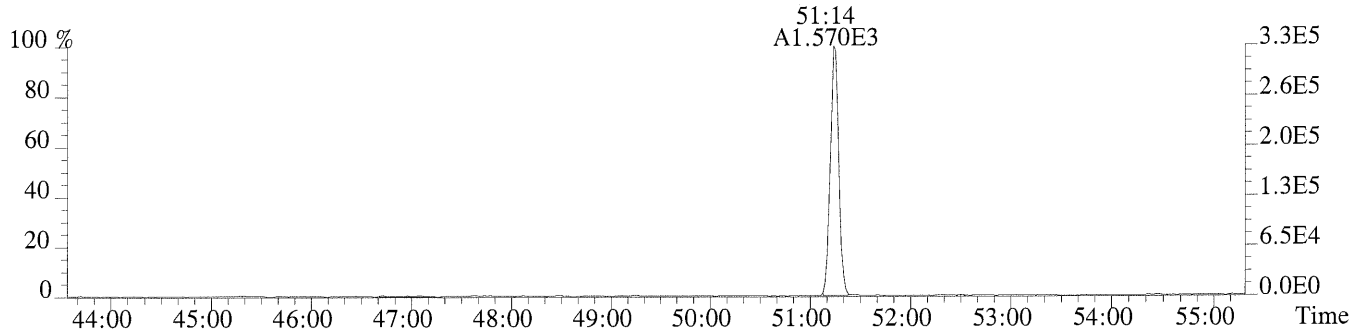
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)



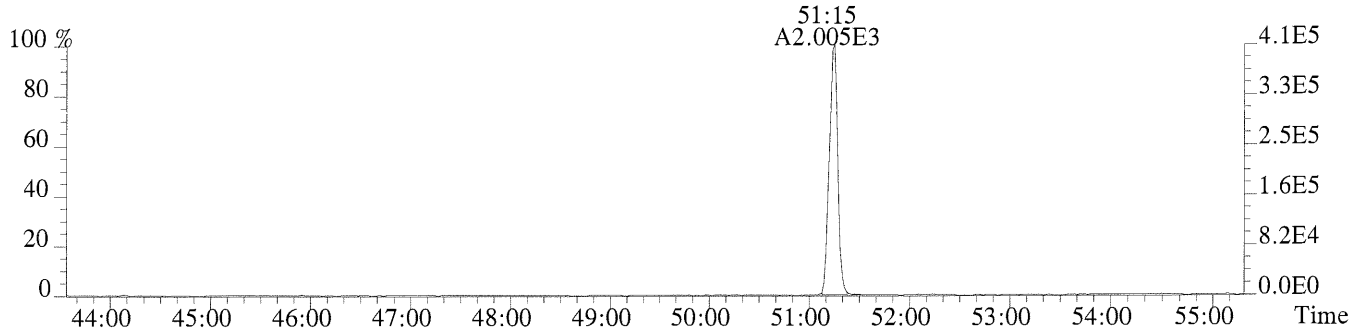
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



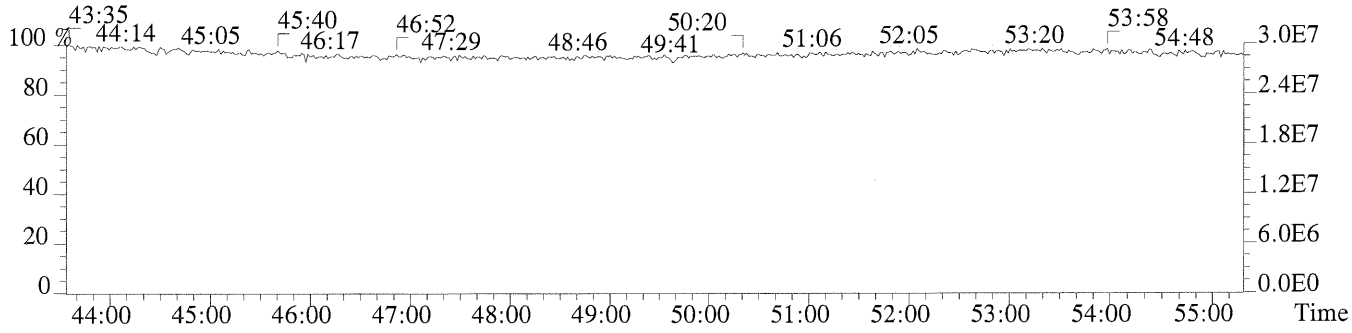
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1012.0,1.00%,F,T)

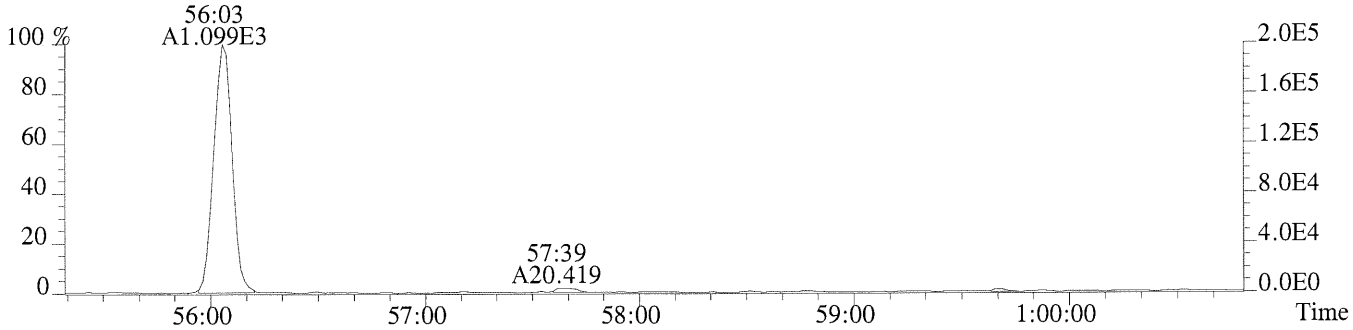


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

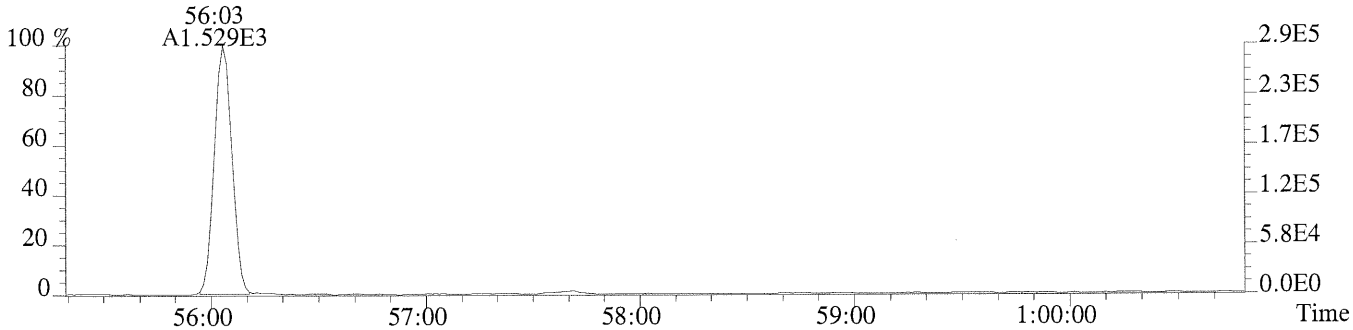


File:U142092 #1-310 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

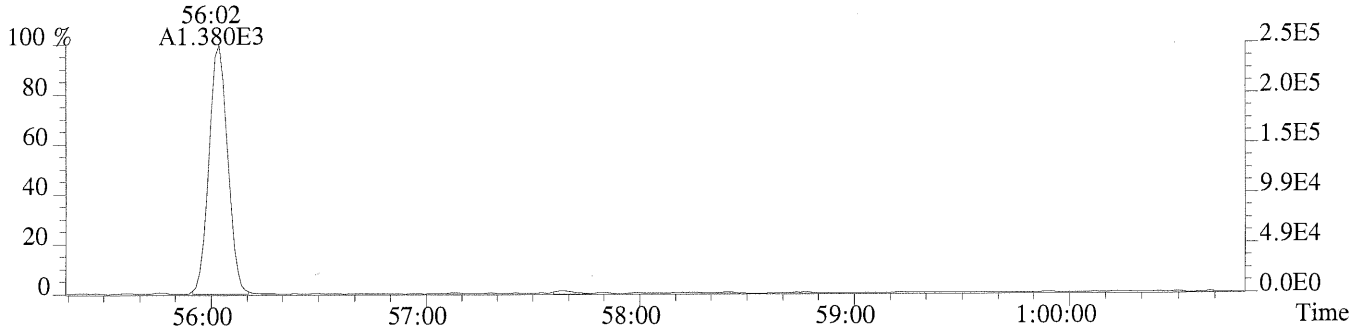
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1172.0,1.00%,F,T)



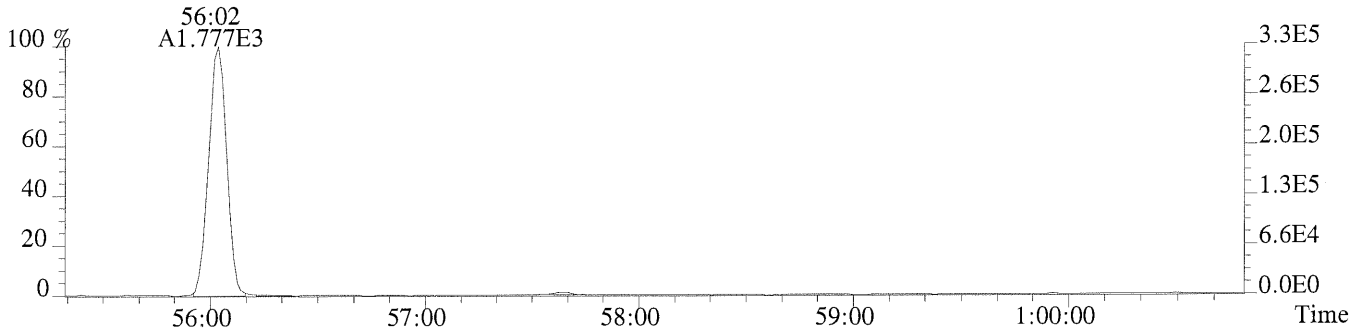
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1316.0,1.00%,F,T)



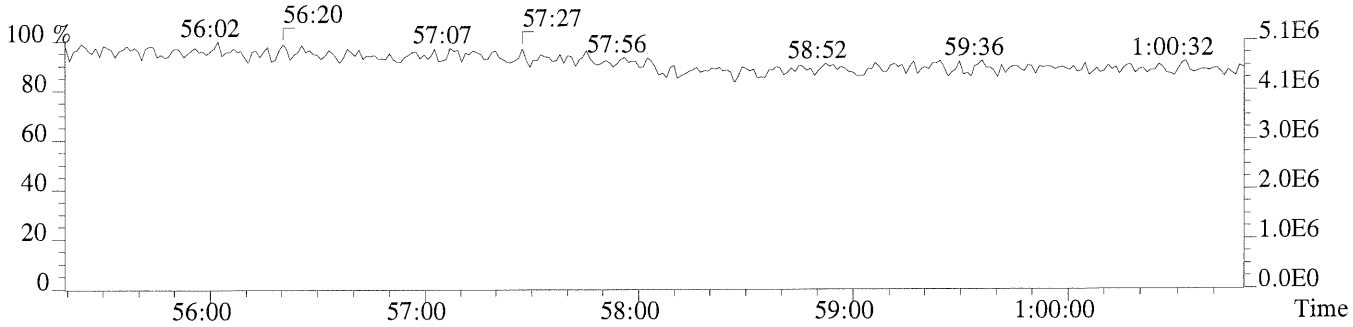
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,936.0,1.00%,F,T)

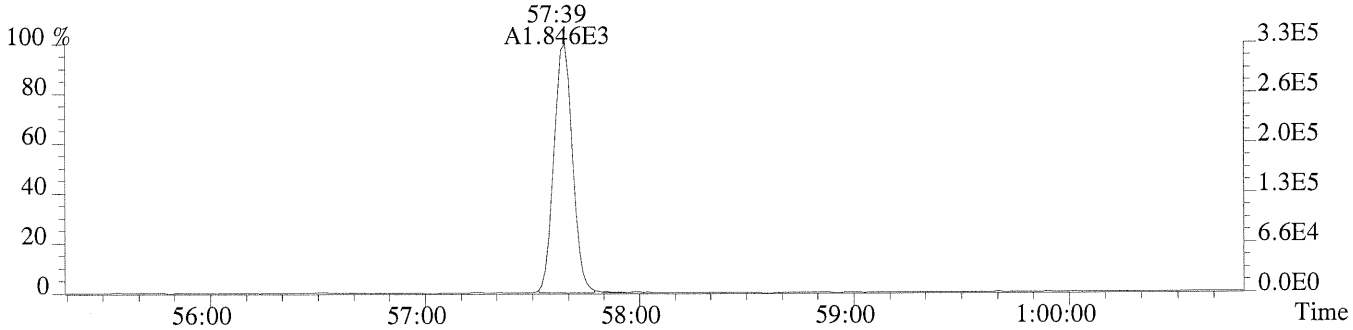


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

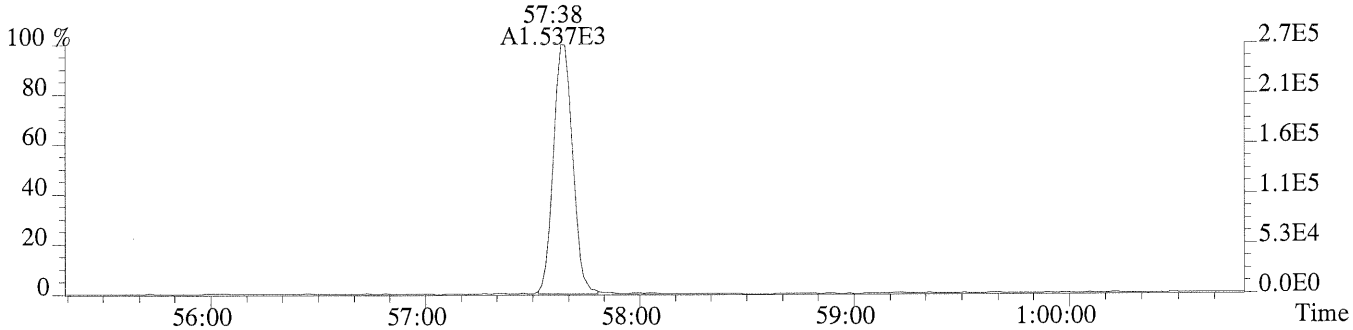


File:U142092 #1-310 Acq:12-NOV-2011 06:05:04 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

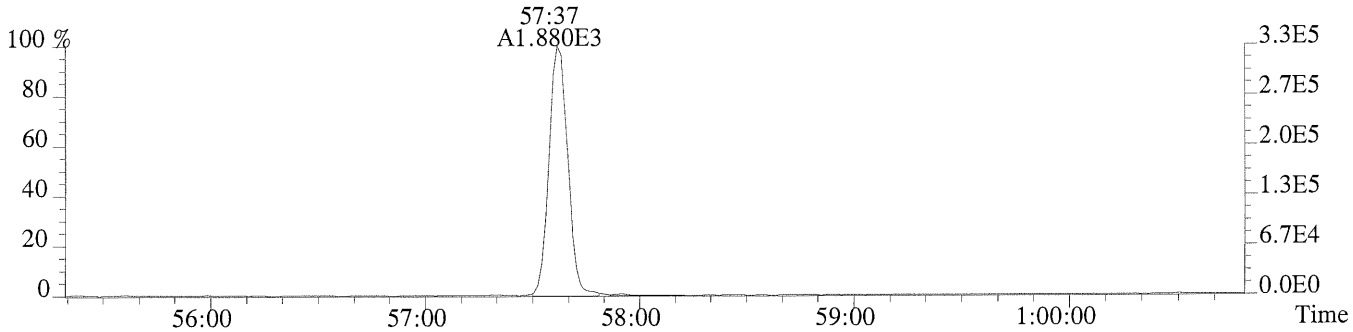
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1056.0,1.00%,F,T)



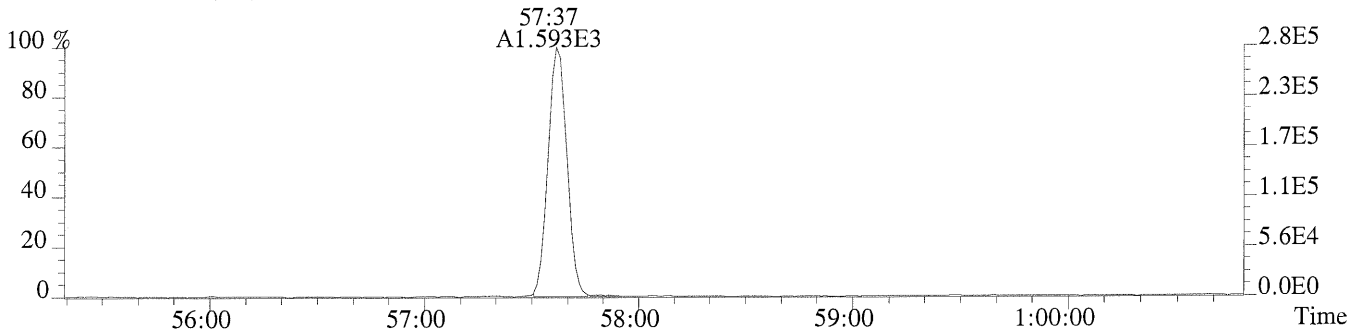
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



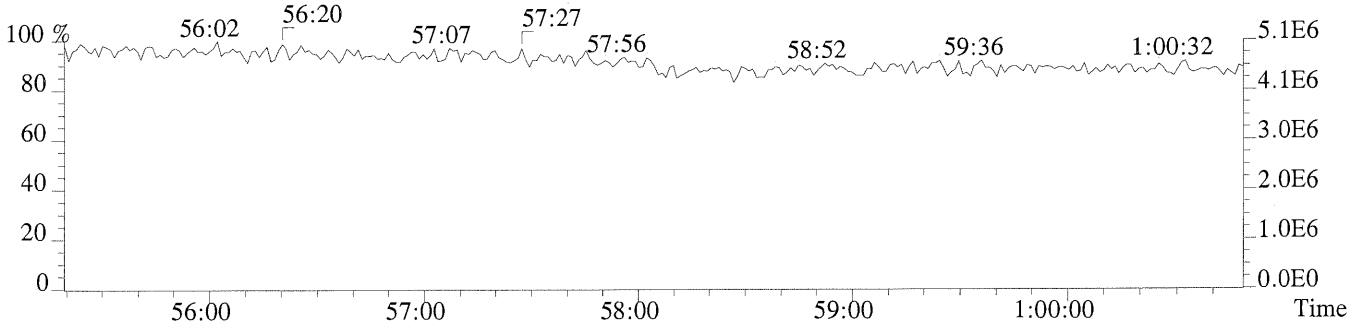
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



FORM 4A
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142093 Analysis Date: 12-NOV-11 Time: 07:18:55

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2-MoCB	M/M+2	3.10	2.66-3.60	48.5	35.0 - 65.0
4-MoCB	M/M+2	3.06	2.66-3.60	50.2	35.0 - 65.0
22'-DiCB	M/M+2	1.62	1.33-1.79	55.3	35.0 - 65.0
44'-DiCB	M/M+2	1.60	1.33-1.79	49.3	35.0 - 65.0
22'6'-TrCB	M/M+2	1.00	0.88-1.20	56.1	35.0 - 65.0
344'-TrCB	M/M+2	1.08	0.88-1.20	50.5	35.0 - 65.0
22'66'-TeCB	M/M+2	0.71	0.65-0.89	56.0	35.0 - 65.0
344'5-TeCB	M/M+2	0.76	0.65-0.89	50.0	35.0 - 65.0
33'44'-TeCB	M/M+2	0.80	0.65-0.89	52.2	35.0 - 65.0
22'466'-PeCB	M+2/M+4	1.59	1.32-1.78	52.9	35.0 - 65.0
2'344'5-PeCB	M+2/M+4	1.60	1.32-1.78	49.8	35.0 - 65.0
23'44'5-PeCB	M+2/M+4	1.53	1.32-1.78	48.5	35.0 - 65.0
2344'5-PeCB	M+2/M+4	1.52	1.32-1.78	50.9	35.0 - 65.0
233'44'-PeCB	M+2/M+4	1.47	1.32-1.78	51.1	35.0 - 65.0
33'44'5-PeCB	M+2/M+4	1.51	1.32-1.78	52.6	35.0 - 65.0
22'44'66'-HxCB	M+2/M+4	1.12	1.05-1.43	51.8	35.0 - 65.0
23'44'55'-HxCB	M+2/M+4	1.24	1.05-1.43	50.6	35.0 - 65.0
233'44'5-HxCB	M+2/M+4	1.24	1.05-1.43	99.8	70.0 -130.0
33'44'55'-HxCB	M+2/M+4	1.23	1.05-1.43	51.4	35.0 - 65.0
22'34'566'-HpCB	M+2/M+4	0.96	0.89-1.21	53.4	35.0 - 65.0
233'44'55'-HpCB	M+2/M+4	1.02	0.89-1.21	55.4	35.0 - 65.0
22'33'55'66'-OcCB	M+2/M+4	0.83	0.76-1.02	55.1	35.0 - 65.0
233'44'55'6-OcCB	M+2/M+4	0.85	0.76-1.02	53.2	35.0 - 65.0
22'33'4'55'66'-NoCB	M+2/M+4	0.77	0.65-0.89	58.6	35.0 - 65.0
22'33'44'55'6-NoCB	M+2/M+4	0.74	0.65-0.89	50.6	35.0 - 65.0
DeCB	M+4/M+6	1.18	0.99-1.33	54.8	35.0 - 65.0

(1) See Table 7, Method 1668A, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

(3) Contract-required concentration range as specified in Table 6, Method 1668A, under VER.

SP1668F4A

FORM 4B
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142093 Analysis Date: 12-NOV-11 Time: 07:18:55

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
LABELED COMPOUNDS					
13C-2-MoCB	M/M+2	3.01	2.66-3.60	103.5	50.0 - 150.0
13C-4-MoCB	M/M+2	3.08	2.66-3.60	105.6	50.0 - 150.0
13C-22'-DiCB	M/M+2	1.55	1.33-1.79	85.9	50.0 - 150.0
13C-44'-DiCB	M/M+2	1.51	1.33-1.79	104.3	50.0 - 150.0
13C-22'6'-TrCB	M/M+2	1.06	0.88-1.20	99.1	50.0 - 150.0
13C-344'-TrCB	M/M+2	0.98	0.88-1.20	97.2	50.0 - 150.0
13C-22'66'-TeCB	M/M+2	0.79	0.65-0.89	72.5	50.0 - 150.0
13C-344'5-TeCB	M/M+2	0.79	0.65-0.89	97.7	50.0 - 150.0
13C-33'44'-TeCB	M/M+2	0.77	0.65-0.89	93.8	50.0 - 150.0
13C-22'466'-PeCB	M+2/M+4	1.57	1.32-1.78	82.9	50.0 - 150.0
13C-2'344'5-PeCB	M+2/M+4	1.57	1.32-1.78	95.0	50.0 - 150.0
13C-23'44'5-PeCB	M+2/M+4	1.52	1.32-1.78	95.2	50.0 - 150.0
13C-2344'5-PeCB	M+2/M+4	1.48	1.32-1.78	88.9	50.0 - 150.0
13C-233'44'-PeCB	M+2/M+4	1.50	1.32-1.78	91.6	50.0 - 150.0
13C-33'44'5-PeCB	M+2/M+4	1.48	1.32-1.78	94.0	50.0 - 150.0
13C-22'44'66'-HxCB	M+2/M+4	1.26	1.05-1.43	79.8	50.0 - 150.0
13C-23'44'55'-HxCB	M+2/M+4	1.27	1.05-1.43	86.8	50.0 - 150.0
13C-233'44'5'-HxCB	M+2/M+4	1.28	1.05-1.43	181.6	100.0 - 300.0
13C-33'44'55'-HxCB	M+2/M+4	1.26	1.05-1.43	88.8	50.0 - 150.0
13C-22'34'566'-HpCB	M+2/M+4	1.04	0.89-1.21	107.4	50.0 - 150.0
13C-233'44'55'-HpCB	M+2/M+4	1.03	0.89-1.21	112.9	50.0 - 150.0
13C-22'33'55'66'-OcCB	M+2/M+4	0.92	0.76-1.02	97.4	50.0 - 150.0
13C-233'44'55'6-OcCB	M+2/M+4	0.89	0.76-1.02	100.9	50.0 - 150.0
13C-22'33'4'55'66'-NoCB	M+2/M+4	0.79	0.65-0.89	91.5	50.0 - 150.0
13C-22'33'44'55'6-NoCB	M+2/M+4	0.80	0.65-0.89	110.6	50.0 - 150.0
13C-DeCB	M+4/M+6	1.18	0.99-1.33	90.2	50.0 - 150.0
CLEANUP STANDARDS					
13C-244'-TrCB	M/M+2	1.00	0.88-1.20	94.9	50.0 - 150.0
13C-233'55'-PeCB	M+2/M+4	1.54	1.32-1.78	94.4	50.0 - 150.0
13C-22'33'55'6-HpCB	M+2/M+4	1.06	0.89-1.21	78.8	50.0 - 150.0

(1) See Table 7, Method 1668A, for m/z specifications.
(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.
(3) Contract-required concentration range, as specified in Table 6, Method 1668A, under VER.

SP1668F4B

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
CCAL CS3

Run #7 Filename U142093 Samp: 1 Inj: 1 Acquired: 12-NOV-11 07:18:55
Processed: 15-NOV-11 15:26:48 Sample ID: CCAL CS3

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1	1	2-MoCB	13:20	8.854e+03	2.853e+03	3.10	yes	no
2	3	4-MoCB	15:36	8.671e+03	2.833e+03	3.06	yes	no
3	4	22'-DiCB	15:51	4.678e+03	2.891e+03	1.62	yes	no
4	15	44'-DiCB	21:53	5.300e+03	3.311e+03	1.60	yes	no
5	19	22'6'-TrCB	19:02	3.150e+03	3.165e+03	1.00	yes	no
6	37	344'-TrCB	29:01	4.358e+03	4.040e+03	1.08	yes	no
7	54	22'66'-TeCB	22:10	2.648e+03	3.721e+03	0.71	yes	no
8	81	344'5-TeCB	35:48	2.845e+03	3.720e+03	0.76	yes	no
9	77	33'44'-TeCB	36:22	2.828e+03	3.517e+03	0.80	yes	no
10	104	22'466'-PeCB	27:45	4.596e+03	2.893e+03	1.59	yes	no
11	123	2'344'5-PeCB	38:21	3.619e+03	2.261e+03	1.60	yes	no
12	118	23'44'5-PeCB	38:41	3.554e+03	2.323e+03	1.53	yes	no
13	114	2344'5-PeCB	39:13	3.457e+03	2.273e+03	1.52	yes	no
14	105	233'44'-PeCB	39:52	3.383e+03	2.305e+03	1.47	yes	no
15	126	33'44'5-PeCB	42:58	3.047e+03	2.015e+03	1.51	yes	no
16	155	22'44'66'-HxCB	33:27	3.830e+03	3.405e+03	1.12	yes	no
17	167	23'44'55'-HxCB	44:49	2.335e+03	1.887e+03	1.24	yes	no
18	156/7	233'44'5-HxCB	45:60	4.462e+03	3.604e+03	1.24	yes	no
19	169	33'44'55'-HxCB	49:14	1.933e+03	1.571e+03	1.23	yes	no
20	188	22'34'566'-HpCB	39:12	3.352e+03	3.510e+03	0.96	yes	no
21	189	233'44'55'-HpCB	51:45	1.824e+03	1.796e+03	1.02	yes	no
22	202	22'33'55'66'-OcCB	44:35	1.941e+03	2.343e+03	0.83	yes	no
23	205	233'44'55'6-OcCB	54:18	1.528e+03	1.802e+03	0.85	yes	no
24	208	22'33'4'55'66'-NoCB	51:15	1.413e+03	1.826e+03	0.77	yes	no
25	206	22'33'44'55'6-NoCB	56:02	1.130e+03	1.534e+03	0.74	yes	no
26	209	DeCB	57:38	1.919e+03	1.621e+03	1.18	yes	no
27	1L	13C-2-MoCB	13:19	1.690e+04	5.612e+03	3.01	yes	no
28	3L	13C-4-MoCB	15:35	1.668e+04	5.420e+03	3.08	yes	no
29	4L	13C-22'-DiCB	15:49	7.479e+03	4.819e+03	1.55	yes	no
30	15L	13C-44'-DiCB	21:52	1.076e+04	7.133e+03	1.51	yes	no
31	19L	13C-22'6'-TrCB	19:01	5.777e+03	5.463e+03	1.06	yes	no
32	37L	13C-344'-TrCB	28:59	7.568e+03	7.698e+03	0.98	yes	no
33	54L	13C-22'66'-TeCB	22:09	4.993e+03	6.347e+03	0.79	yes	no
34	81L	13C-344'5-TeCB	35:46	5.596e+03	7.103e+03	0.79	yes	no
35	77L	13C-33'44'-TeCB	36:20	5.335e+03	6.885e+03	0.77	yes	no
36	104L	13C-22'466'-PeCB	27:44	8.387e+03	5.357e+03	1.57	yes	no
37	123L	13C-2'344'5-PeCB	38:20	7.089e+03	4.519e+03	1.57	yes	no
38	118L	13C-23'44'5-PeCB	38:40	7.339e+03	4.822e+03	1.52	yes	no
39	114L	13C-2344'5-PeCB	39:12	6.775e+03	4.570e+03	1.48	yes	no
40	105L	13C-233'44'-PeCB	39:50	6.607e+03	4.404e+03	1.50	yes	no
41	126L	13C-33'44'5-PeCB	42:56	5.980e+03	4.039e+03	1.48	yes	no
42	155L	13C-22'44'66'-HxCB	33:26	7.895e+03	6.243e+03	1.26	yes	no
43	167L	13C-23'44'55'-HxCB	44:48	4.639e+03	3.642e+03	1.27	yes	no
44	156/7	13C-233'44'5'-HxCB	45:57	9.026e+03	7.043e+03	1.28	yes	no
45	169L	13C-33'44'55'-HxCB	49:12	3.835e+03	3.045e+03	1.26	yes	no
46	188L	13C-22'34'566'-HpCB	39:10	6.613e+03	6.366e+03	1.04	yes	no
47	189L	13C-233'44'55'-HpCB	51:43	3.839e+03	3.724e+03	1.03	yes	no
48	202L	13C-22'33'55'66'-OcCB	44:34	4.310e+03	4.699e+03	0.92	yes	no
49	205L	13C-233'44'55'6-OcCB	54:17	3.320e+03	3.728e+03	0.89	yes	no
50	208L	13C-22'33'4'55'66'-NoCB	51:14	2.766e+03	3.508e+03	0.79	yes	no
51	206L	13C-22'33'44'55'6-NoCB	56:01	2.516e+03	3.139e+03	0.80	yes	no
52	209L	13C-DeCB	57:37	3.916e+03	3.310e+03	1.18	yes	no

53	28L	13C-244'-TrCB	24:56	9.053e+03	9.025e+03	1.00	yes	no
54	111L	13C-233'55'-PeCB	36:22	8.400e+03	5.469e+03	1.54	yes	no
55	178L	13C-22'33'55'6-HpCB	42:14	4.180e+03	3.939e+03	1.06	yes	no
56	9L	13C-2,5-DiCB	17:51	1.077e+04	7.065e+03	1.52	yes	no
57	52L	13C-22'55'-TeCB	26:46	6.029e+03	7.700e+03	0.78	yes	no
58	101L	13C-22'4'55'-PeCB	33:40	7.296e+03	4.573e+03	1.60	yes	no
59	138L	13C-22'3'44'5'-HxCB	41:47	6.017e+03	4.802e+03	1.25	yes	no
60	194L	13C-22'33'44'55'-OcCB	53:49	2.445e+03	2.681e+03	0.91	yes	no

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
Office(713)266-1599. Fax(713)266-0130

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
CCAL CS3

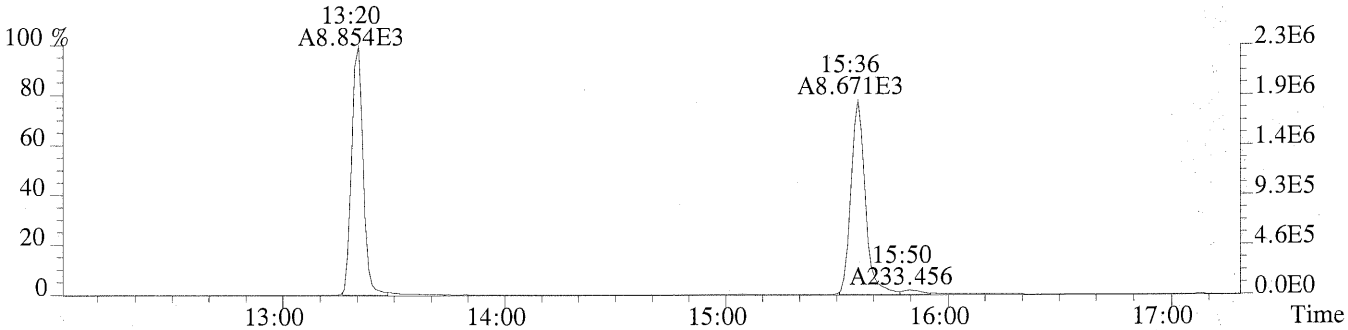
Run #7 Filename U142093 Samp: 1 Inj: 1 Acquired: 12-NOV-11 07:18:55
Processed: 15-NOV-11 15:26:481 LAB. ID: CCAL CS3

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	2.31e+06	2.14e+03	1.1e+03	7.44e+05	3.05e+03	2.4e+02
2	4-MoCB	1.81e+06	2.14e+03	8.4e+02	5.77e+05	3.05e+03	1.9e+02
3	22'-DiCB	1.05e+06	2.70e+03	3.9e+02	6.50e+05	1.18e+04	5.5e+01
4	44'-DiCB	9.22e+05	2.75e+03	3.4e+02	5.97e+05	2.23e+04	2.7e+01
5	22'6'-TrCB	7.08e+05	5.29e+03	1.3e+02	6.99e+05	1.91e+03	3.7e+02
6	344'-TrCB	6.72e+05	1.76e+03	3.8e+02	6.17e+05	9.12e+02	6.8e+02
7	22'66'-TeCB	5.58e+05	1.40e+03	4.0e+02	7.78e+05	1.34e+03	5.8e+02
8	344'5-TeCB	4.56e+05	1.60e+03	2.9e+02	6.00e+05	1.54e+03	3.9e+02
9	33'44'-TeCB	4.47e+05	1.60e+03	2.8e+02	5.61e+05	1.54e+03	3.6e+02
10	22'466'-PeCB	8.33e+05	1.12e+03	7.4e+02	5.29e+05	9.64e+02	5.5e+02
11	2'344'5-PeCB	6.24e+05	3.59e+03	1.7e+02	3.83e+05	2.87e+03	1.3e+02
12	23'44'5-PeCB	6.02e+05	3.59e+03	1.7e+02	4.02e+05	2.87e+03	1.4e+02
13	2344'5-PeCB	6.08e+05	3.59e+03	1.7e+02	3.82e+05	2.87e+03	1.3e+02
14	233'44'-PeCB	5.72e+05	3.59e+03	1.6e+02	3.75e+05	2.87e+03	1.3e+02
15	33'44'5-PeCB	4.70e+05	3.59e+03	1.3e+02	3.15e+05	2.87e+03	1.1e+02
16	22'44'66'-HxCB	6.82e+05	1.20e+03	5.7e+02	5.98e+05	1.35e+03	4.4e+02
17	23'44'55'-HxCB	4.77e+05	7.72e+02	6.2e+02	3.80e+05	7.16e+02	5.3e+02
18	233'44'5-HxCB	6.87e+05	7.72e+02	8.9e+02	5.56e+05	7.16e+02	7.8e+02
19	33'44'55'-HxCB	3.63e+05	7.72e+02	4.7e+02	2.93e+05	7.16e+02	4.1e+02
20	22'34'566'-HpCB	5.95e+05	1.48e+03	4.0e+02	6.18e+05	8.16e+02	7.6e+02
21	233'44'55'-HpCB	3.59e+05	1.84e+03	2.0e+02	3.49e+05	1.27e+03	2.8e+02
22	22'33'55'66'-OcCB	4.17e+05	7.80e+02	5.3e+02	4.99e+05	1.23e+03	4.1e+02
23	233'44'55'6-OcCB	3.12e+05	7.80e+02	4.0e+02	3.61e+05	1.23e+03	2.9e+02
24	22'33'4'55'66'-NoCB	2.91e+05	7.88e+02	3.7e+02	3.77e+05	9.80e+02	3.8e+02
25	22'33'44'55'6-NoCB	2.04e+05	6.84e+02	3.0e+02	2.71e+05	1.07e+03	2.5e+02
26	DeCB	3.45e+05	8.52e+02	4.0e+02	2.83e+05	8.48e+02	3.3e+02
27	13C-2-MoCB	4.47e+06	3.47e+03	1.3e+03	1.48e+06	1.05e+04	1.4e+02
28	13C-4-MoCB	3.43e+06	3.47e+03	9.9e+02	1.12e+06	1.05e+04	1.1e+02
29	13C-22'-DiCB	1.62e+06	2.37e+03	6.8e+02	1.05e+06	1.86e+03	5.6e+02
30	13C-44'-DiCB	1.94e+06	1.41e+03	1.4e+03	1.29e+06	1.90e+03	6.8e+02
31	13C-22'6'-TrCB	1.29e+06	1.21e+04	1.1e+02	1.22e+06	8.32e+03	1.5e+02
32	13C-344'-TrCB	1.24e+06	1.50e+04	8.3e+01	1.23e+06	9.41e+03	1.3e+02
33	13C-22'66'-TeCB	1.03e+06	5.77e+03	1.8e+02	1.30e+06	2.23e+03	5.8e+02
34	13C-344'5-TeCB	9.01e+05	5.02e+03	1.8e+02	1.14e+06	1.98e+03	5.8e+02
35	13C-33'44'-TeCB	8.29e+05	5.02e+03	1.6e+02	1.08e+06	1.98e+03	5.5e+02
36	13C-22'466'-PeCB	1.49e+06	1.17e+03	1.3e+03	9.49e+05	1.18e+03	8.1e+02
37	13C-2'344'5-PeCB	1.22e+06	7.60e+03	1.6e+02	7.91e+05	4.06e+03	1.9e+02
38	13C-23'44'5-PeCB	1.28e+06	7.60e+03	1.7e+02	8.30e+05	4.06e+03	2.0e+02
39	13C-2344'5-PeCB	1.16e+06	7.60e+03	1.5e+02	7.71e+05	4.06e+03	1.9e+02
40	13C-233'44'-PeCB	1.11e+06	7.60e+03	1.5e+02	7.33e+05	4.06e+03	1.8e+02
41	13C-33'44'5-PeCB	9.46e+05	7.60e+03	1.2e+02	6.19e+05	4.06e+03	1.5e+02
42	13C-22'44'66'-HxCB	1.44e+06	1.69e+03	8.5e+02	1.13e+06	2.07e+03	5.5e+02
43	13C-23'44'55'-HxCB	9.43e+05	1.58e+03	6.0e+02	7.68e+05	1.26e+03	6.1e+02
44	13C-233'44'5'-HxCB	1.40e+06	1.58e+03	8.8e+02	1.08e+06	1.26e+03	8.6e+02
45	13C-33'44'55'-HxCB	7.14e+05	1.58e+03	4.5e+02	5.77e+05	1.26e+03	4.6e+02
46	13C-22'34'566'-HpCB	1.17e+06	1.37e+03	8.5e+02	1.13e+06	7.52e+02	1.5e+03
47	13C-233'44'55'-HpCB	7.57e+05	1.18e+03	6.4e+02	7.57e+05	1.11e+03	6.8e+02
48	13C-22'33'55'66'-OcCB	8.99e+05	9.72e+02	9.2e+02	9.75e+05	1.11e+03	8.8e+02
49	13C-233'44'55'6-OcCB	6.81e+05	9.72e+02	7.0e+02	7.51e+05	1.11e+03	6.7e+02
50	13C-22'33'4'55'66'-NoCB	5.67e+05	8.64e+02	6.6e+02	7.15e+05	7.76e+02	9.2e+02
51	13C-22'33'44'55'6-NoCB	4.68e+05	8.28e+02	5.7e+02	5.72e+05	1.15e+03	5.0e+02
52	13C-DeCB	6.96e+05	9.24e+02	7.5e+02	5.83e+05	8.84e+02	6.6e+02

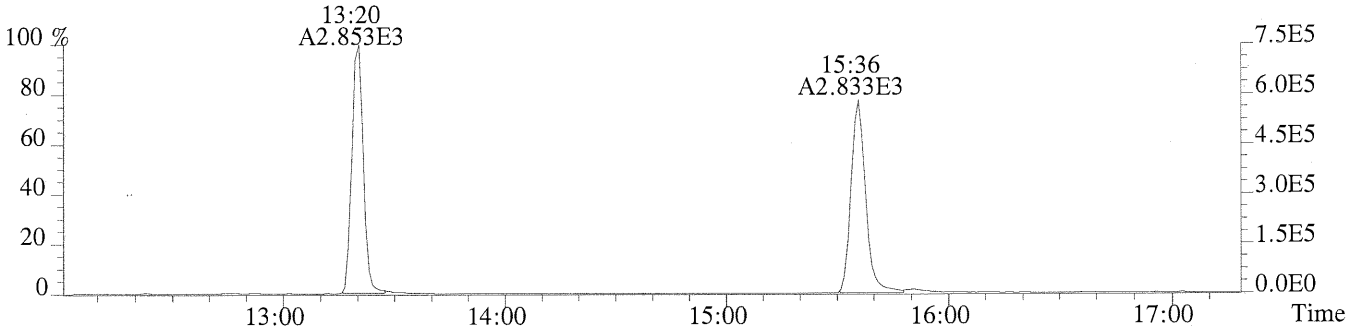
13C-244'-TrCB	1.60e+06	1.50e+04	1.1e+02	1.56e+06	9.41e+03	1.7e+02
13C-233'55'-PeCB	1.47e+06	1.71e+03	8.6e+02	9.54e+05	1.82e+03	5.3e+02
13C-22'33'55'6-HpCB	7.33e+05	1.37e+03	5.3e+02	6.99e+05	7.52e+02	9.3e+02
13C-2,5-DiCB	2.34e+06	1.41e+03	1.7e+03	1.55e+06	1.90e+03	8.1e+02
13C-22'55'-TeCB	1.07e+06	3.48e+03	3.1e+02	1.36e+06	1.55e+03	8.7e+02
13C-22'4'55'-PeCB	1.30e+06	1.71e+03	7.6e+02	8.37e+05	1.82e+03	4.6e+02
13C-22'3'44'5'-HxCB	1.05e+06	9.64e+02	1.1e+03	8.25e+05	1.66e+03	5.0e+02
13C-22'33'44'55'-OcCB	5.01e+05	9.72e+02	5.2e+02	5.47e+05	1.11e+03	4.9e+02

File:U142093 #1-341 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

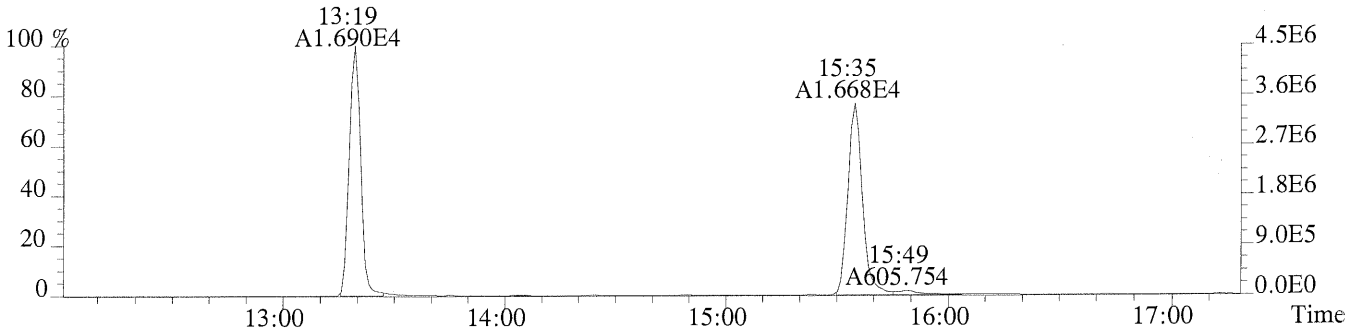
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2144.0,1.00%,F,T)



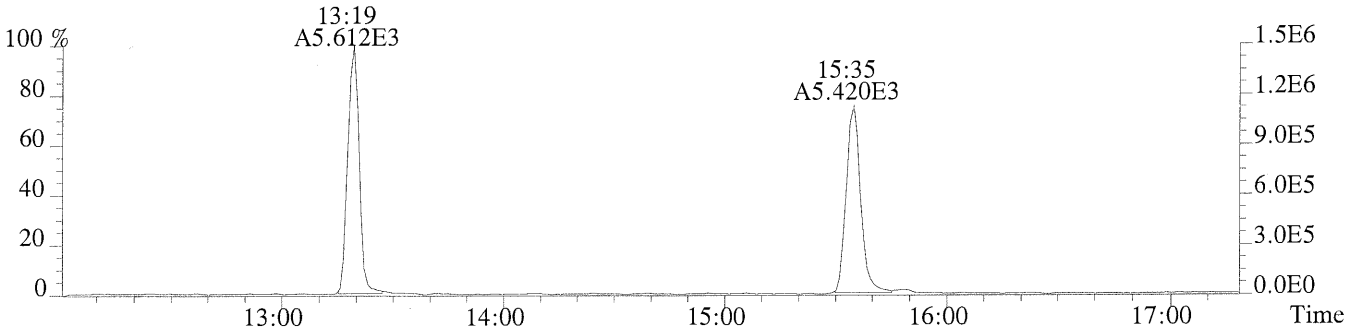
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3052.0,1.00%,F,T)



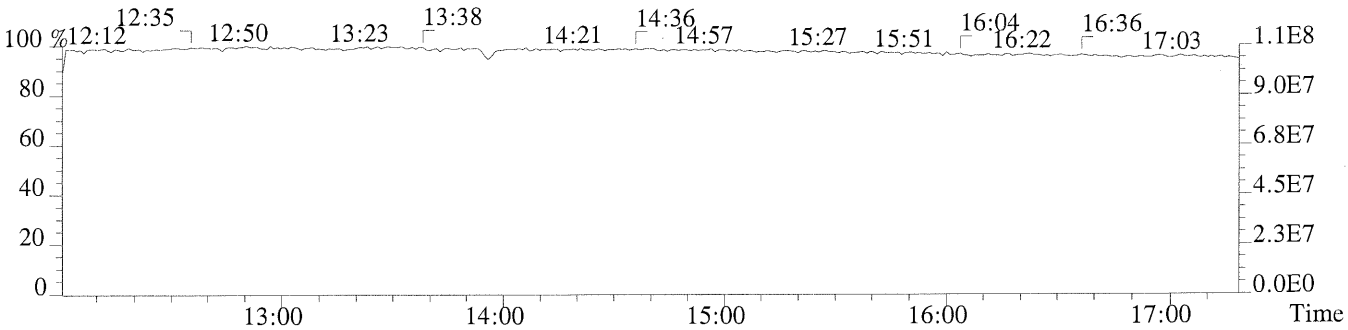
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3472.0,1.00%,F,T)



202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10472.0,1.00%,F,T)

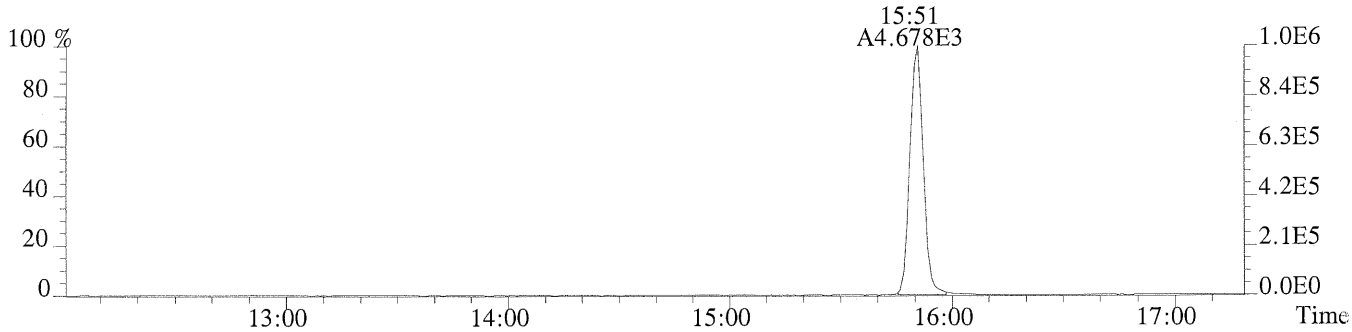


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

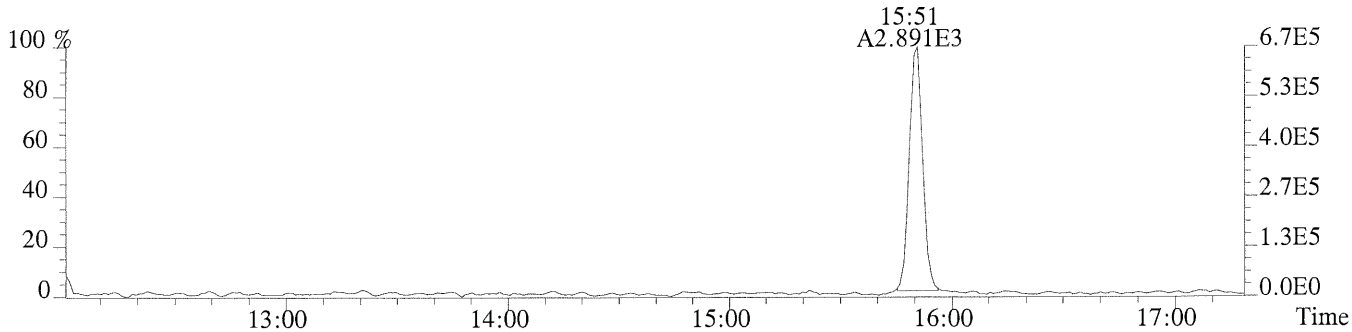


File:U142093 #1-341 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

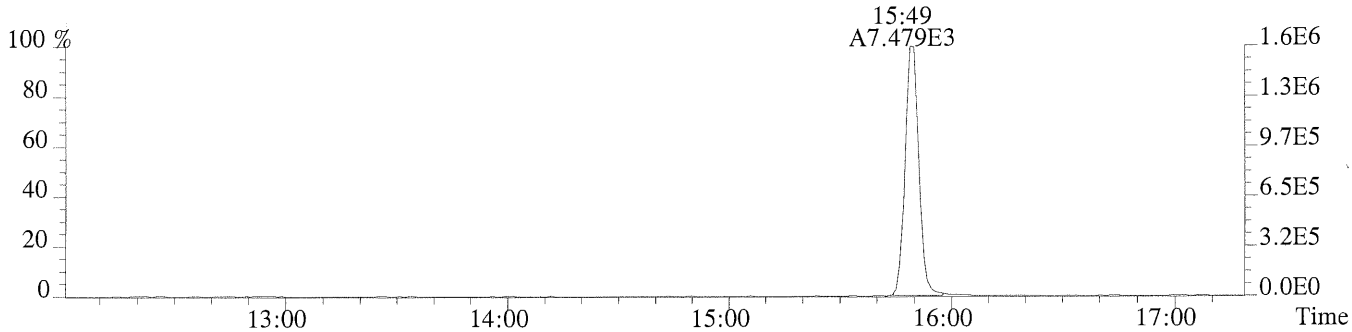
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2700.0,1.00%,F,T)



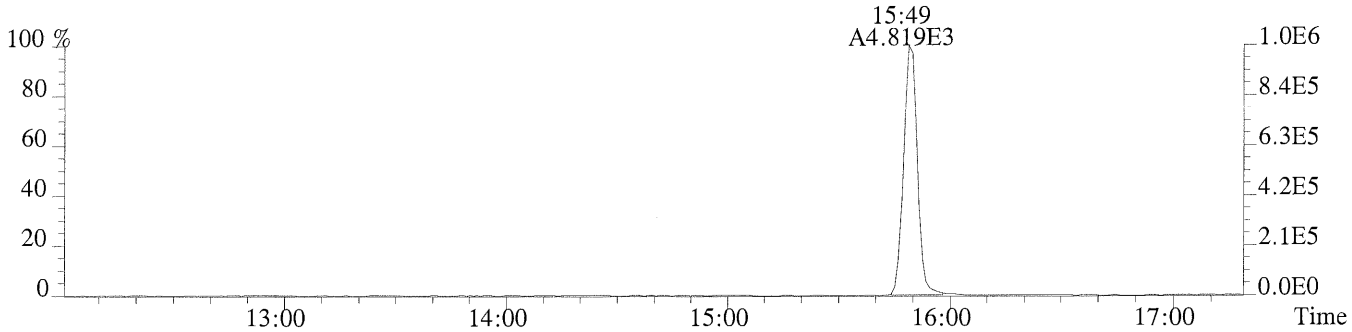
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11832.0,1.00%,F,T)



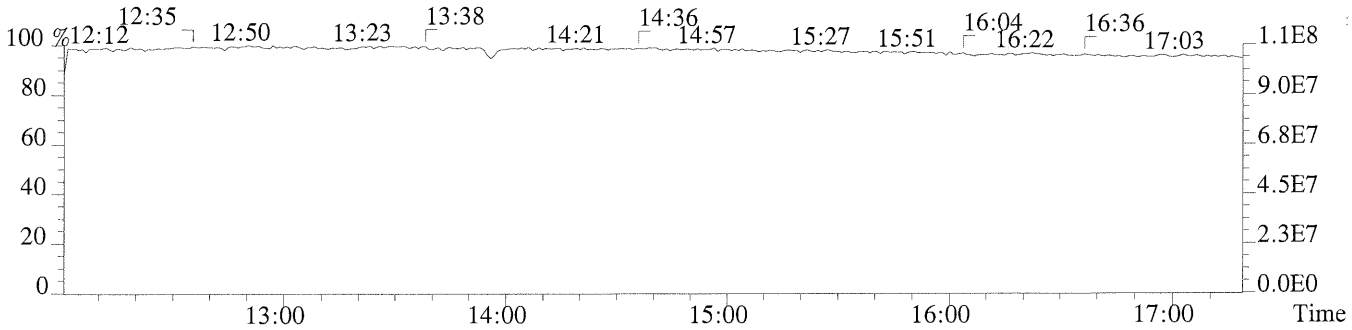
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2368.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1860.0,1.00%,F,T)

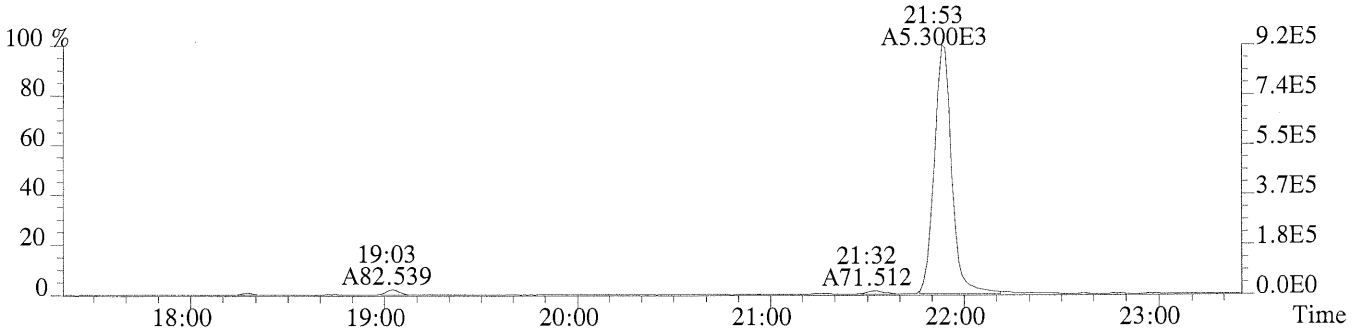


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

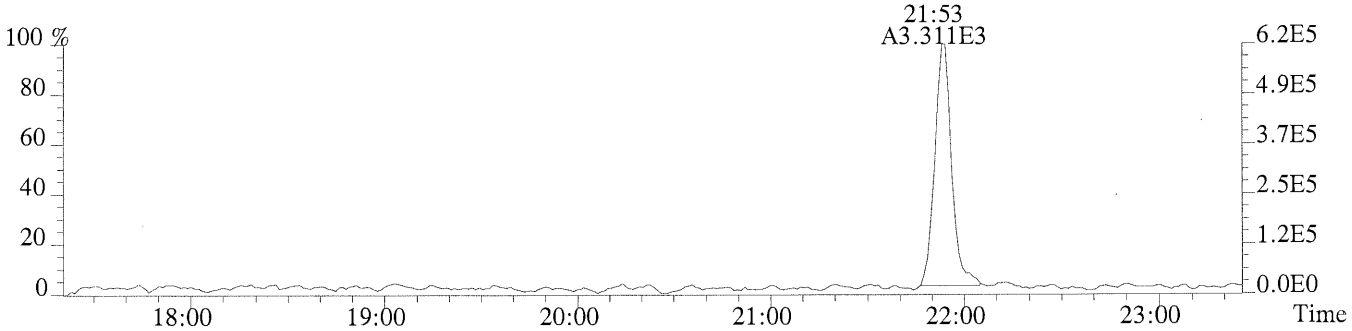


File:U142093 #1-336 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

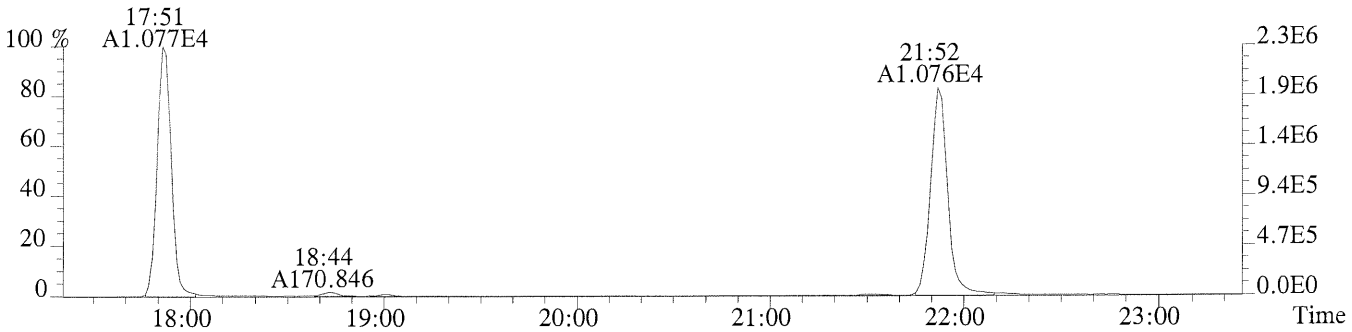
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2752.0,1.00%,F,T)



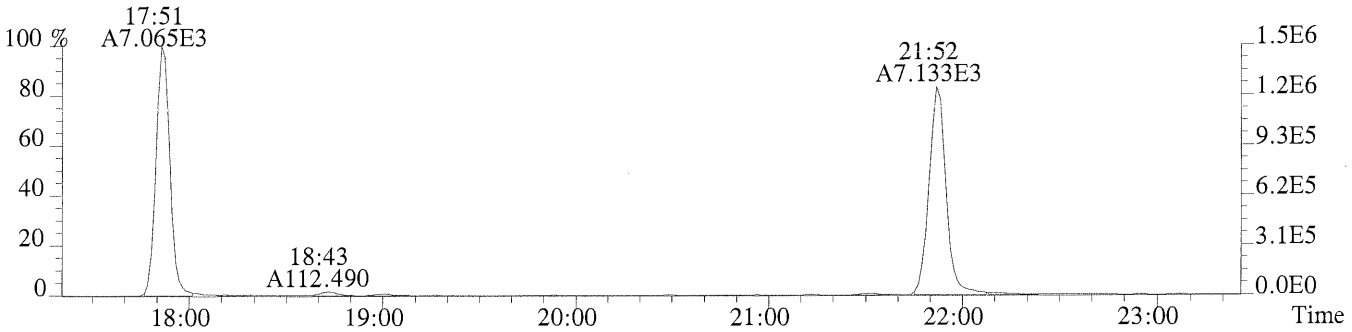
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,22348.0,1.00%,F,T)



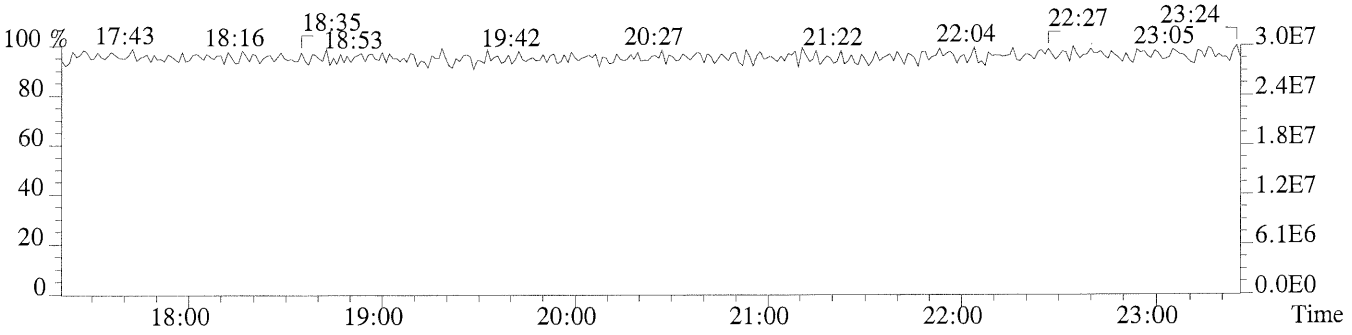
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1408.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1904.0,1.00%,F,T)

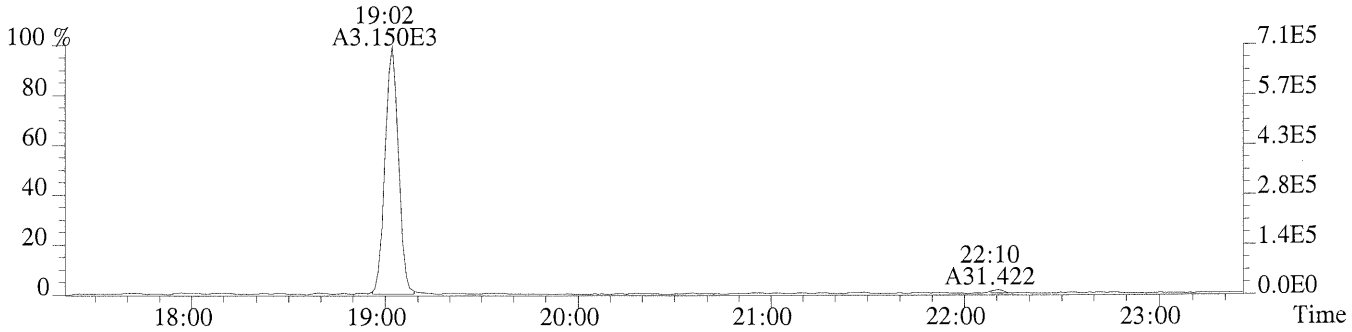


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

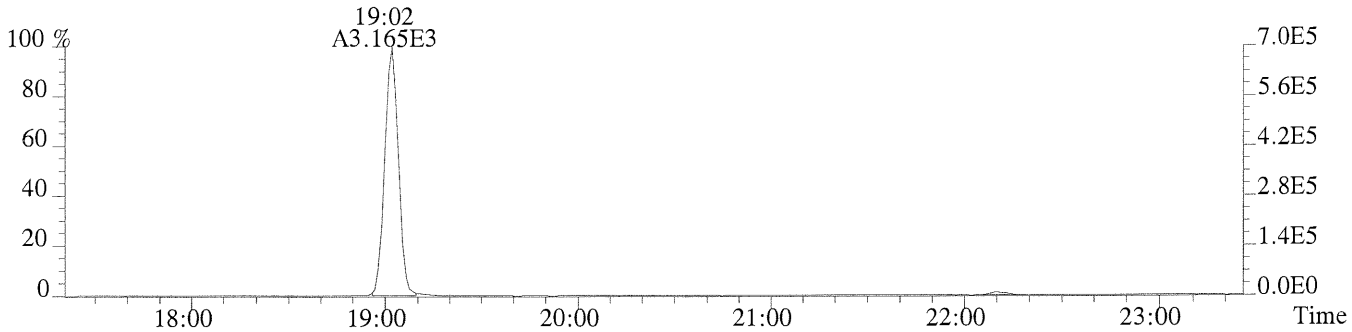


File:U142093 #1-336 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

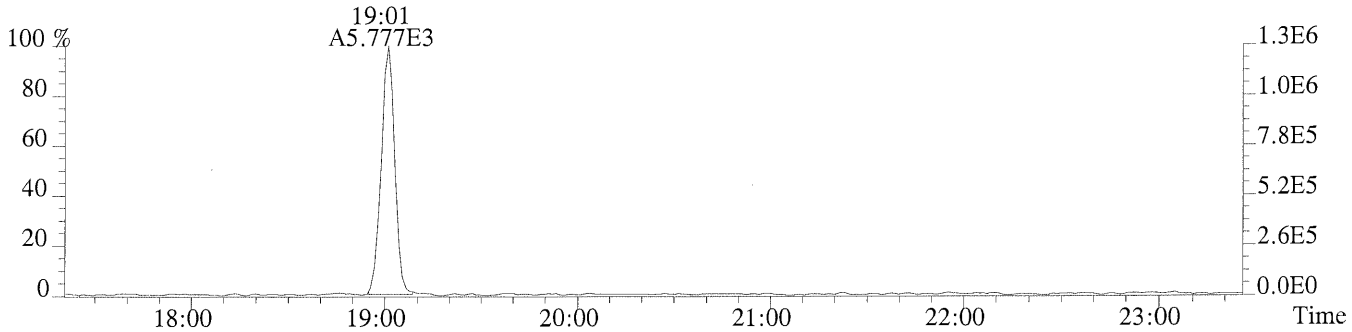
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5288.0,1.00%,F,T)



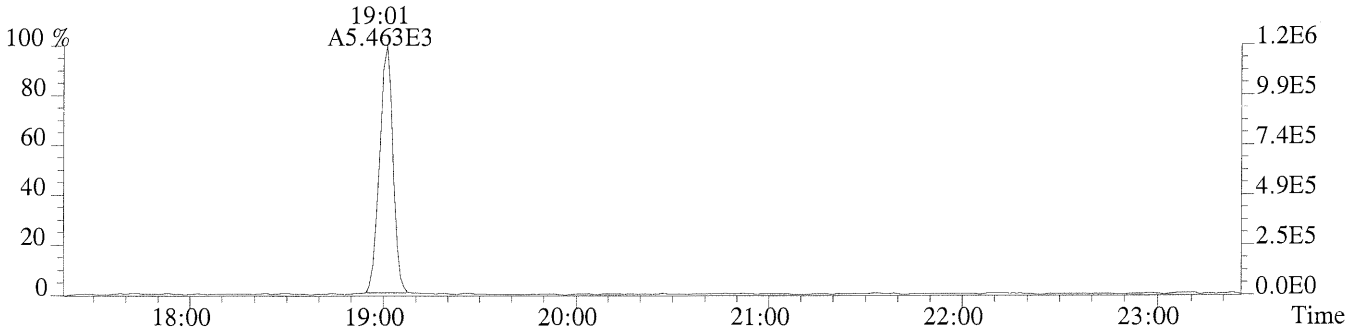
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1908.0,1.00%,F,T)



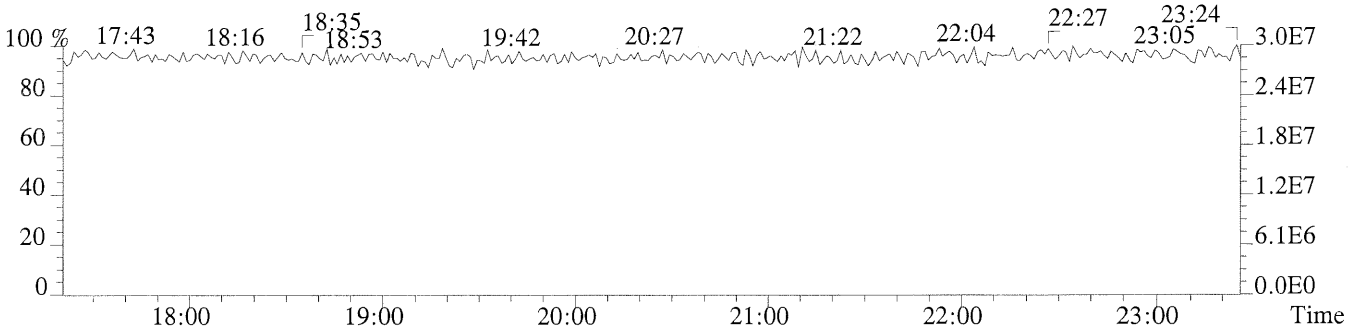
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12112.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8316.0,1.00%,F,T)

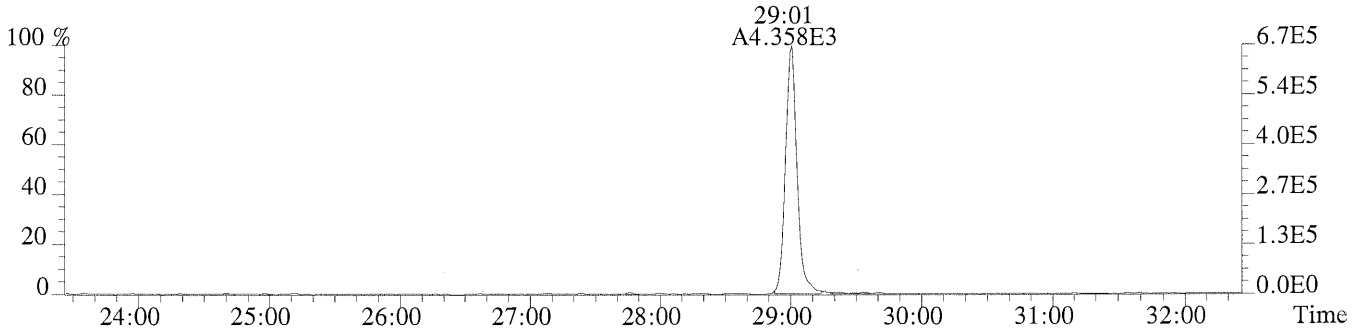


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

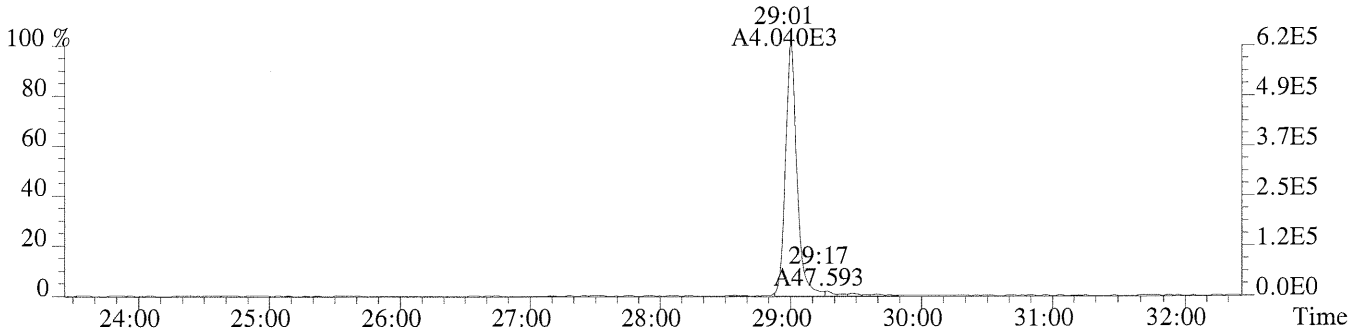


File:U142093 #1-576 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

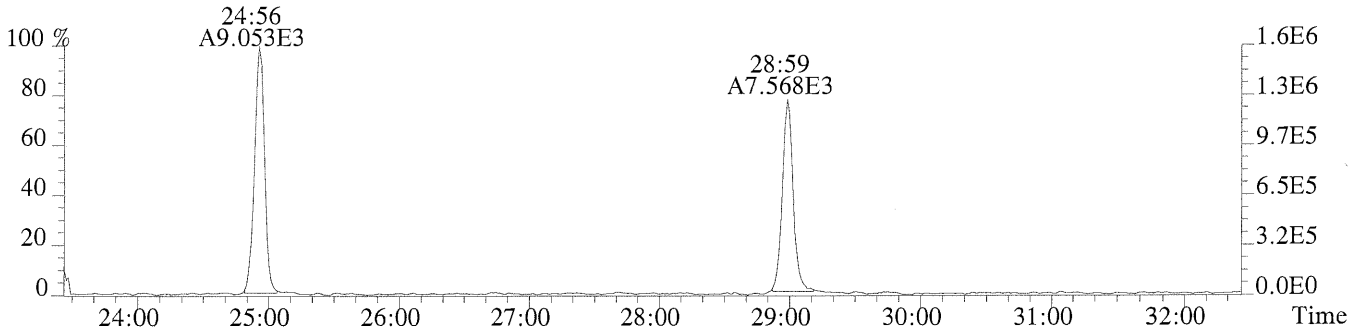
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1760.0,1.00%,F,T)



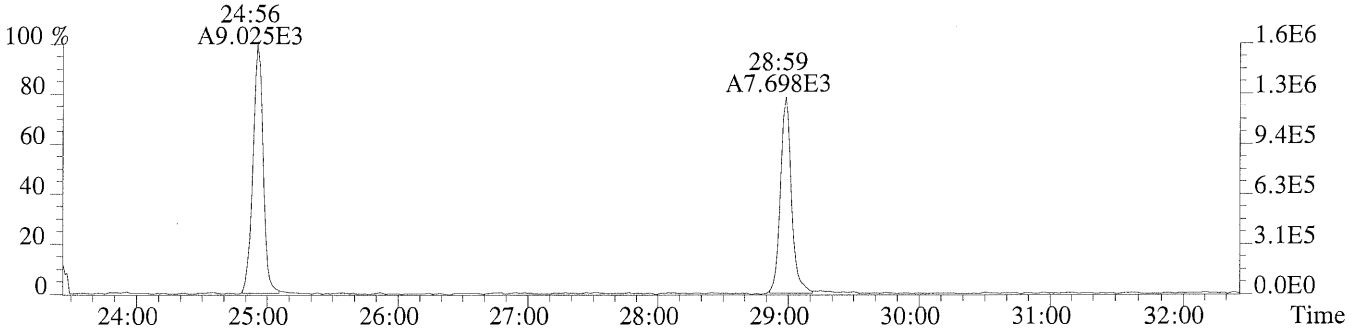
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,912.0,1.00%,F,T)



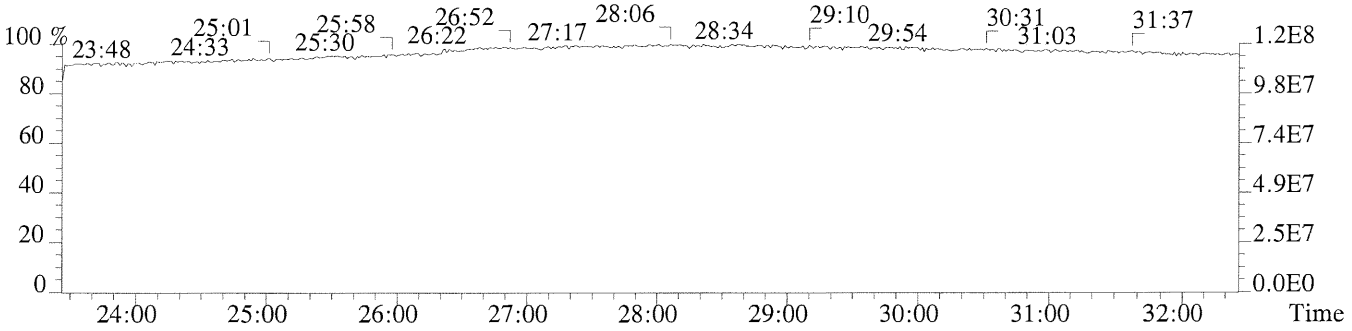
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,15032.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9412.0,1.00%,F,T)

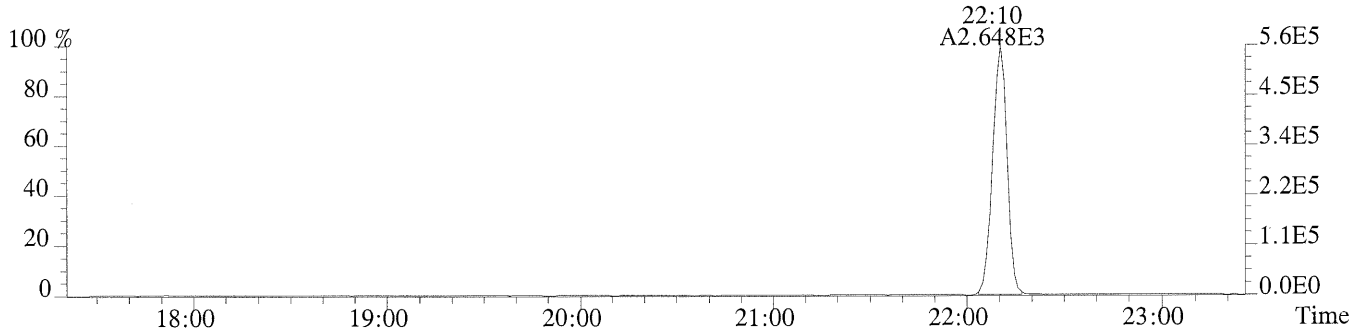


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

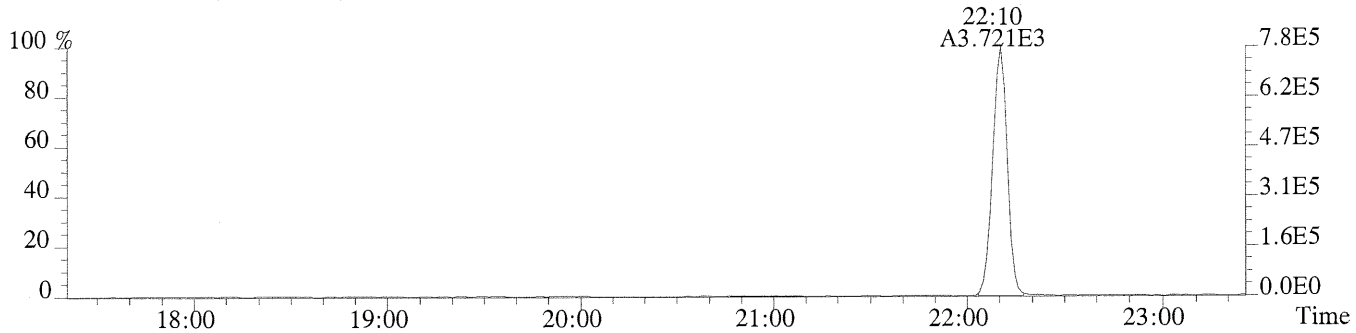


File:U142093 #1-336 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

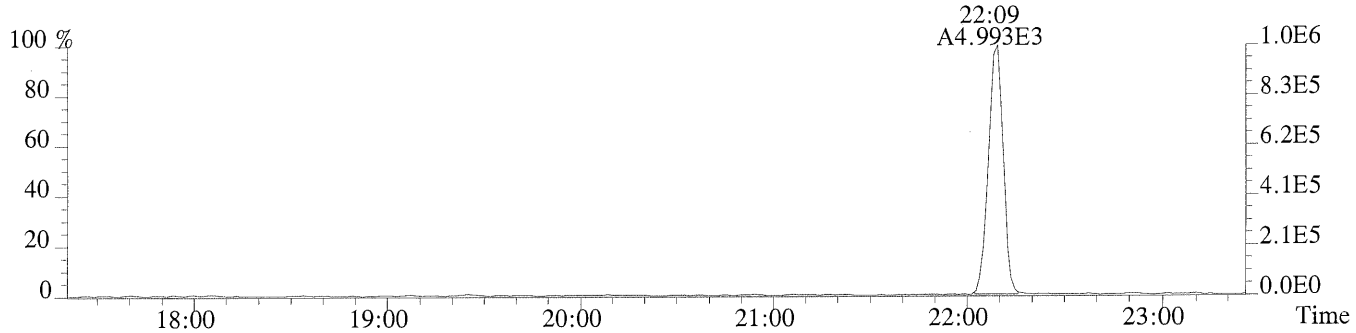
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1400.0,1.00%,F,T)



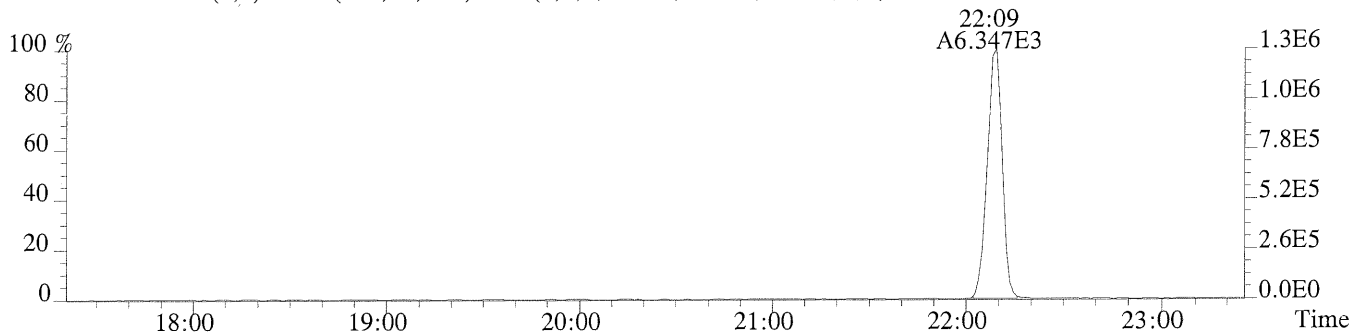
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1336.0,1.00%,F,T)



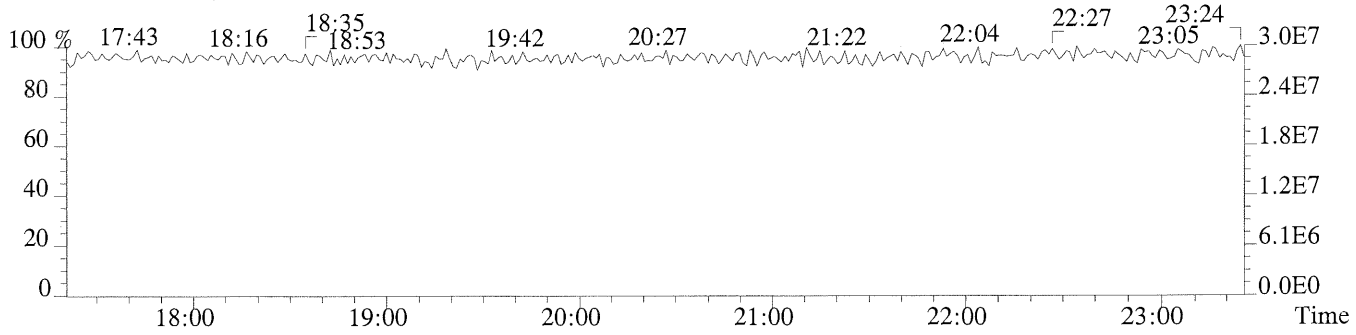
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5772.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2228.0,1.00%,F,T)

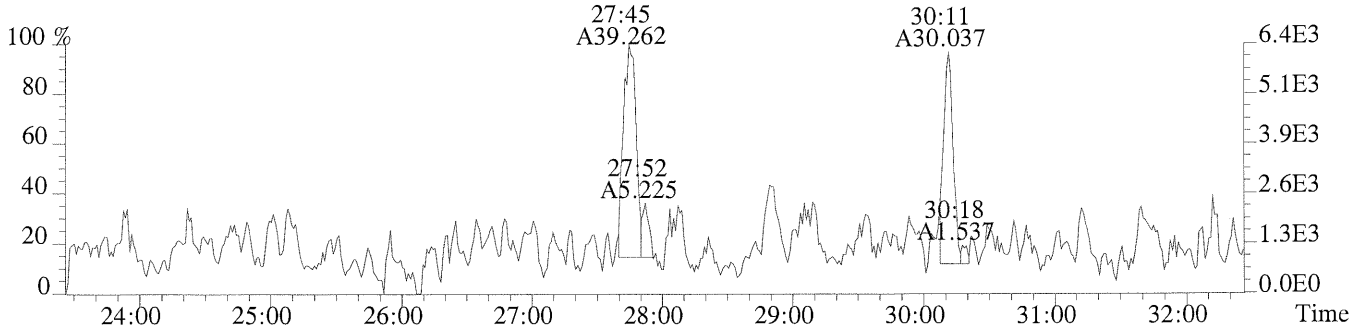


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

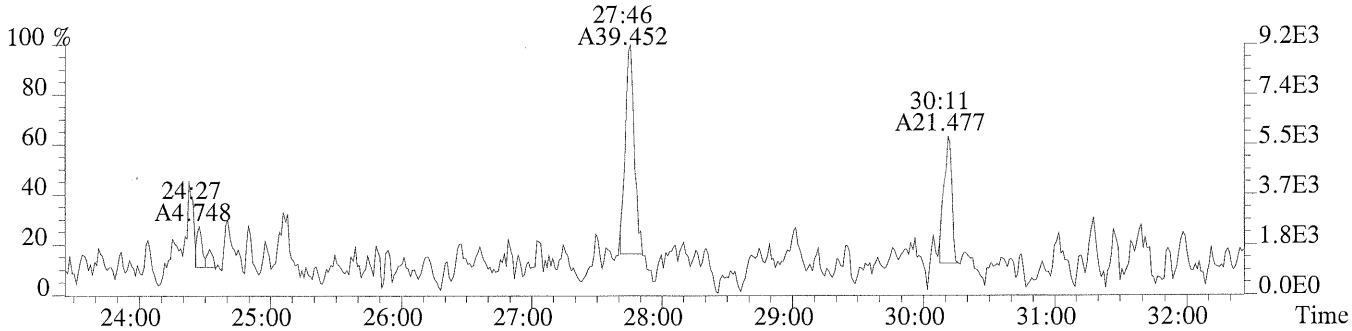


File:U142093 #1-576 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

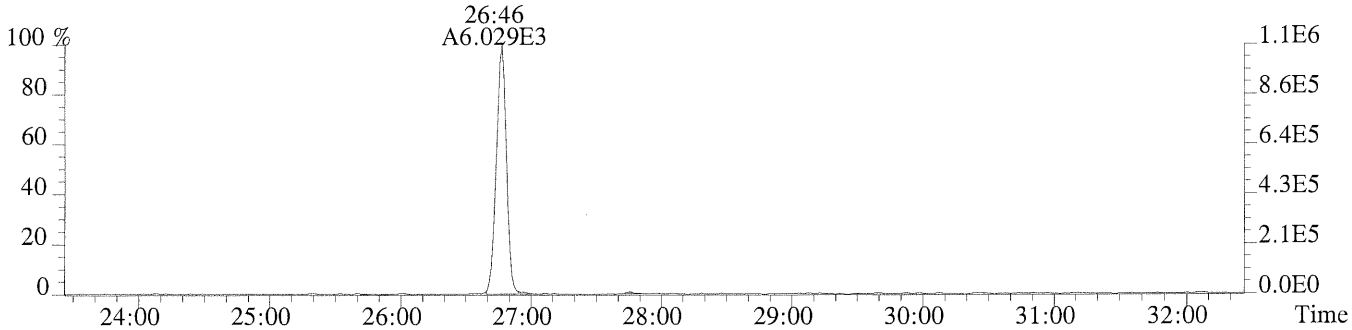
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



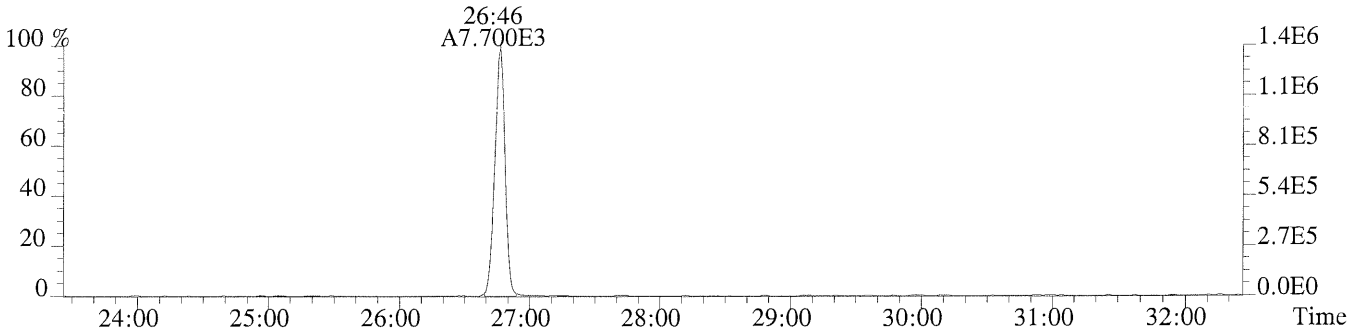
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1528.0,1.00%,F,T)



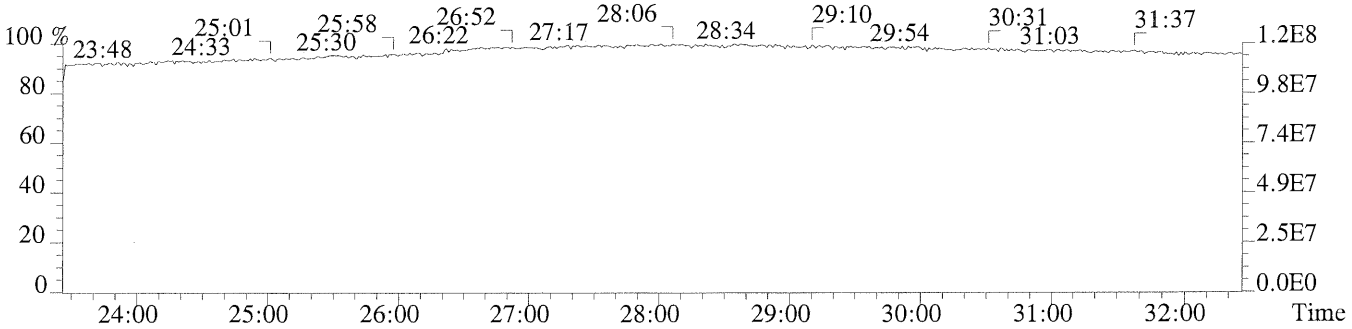
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3484.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1552.0,1.00%,F,T)

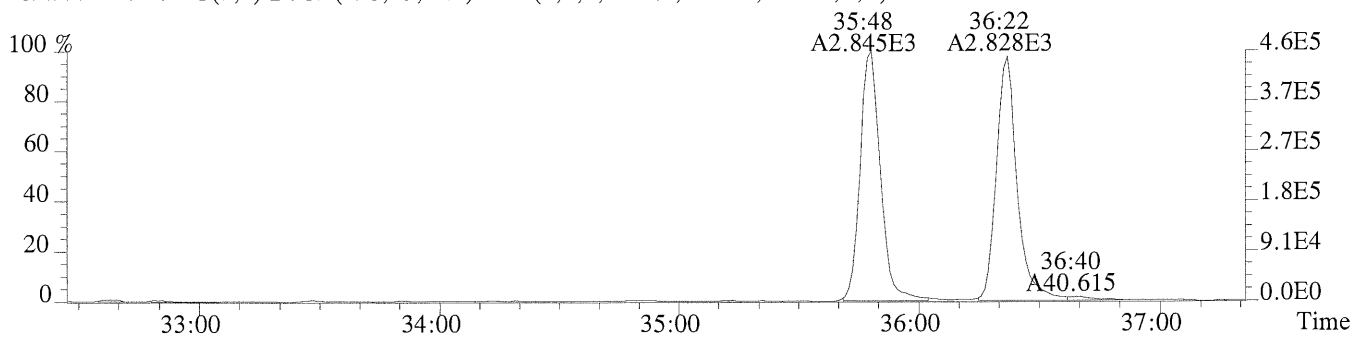


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

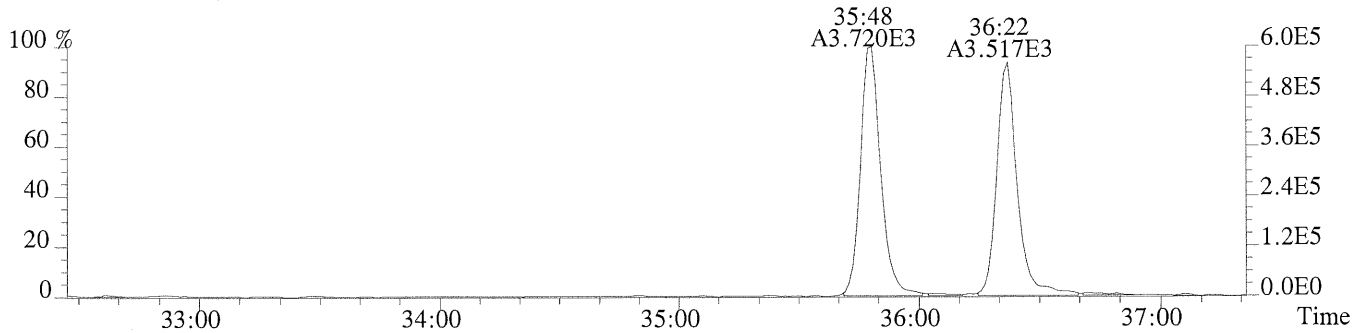


File:U142093 #1-314 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

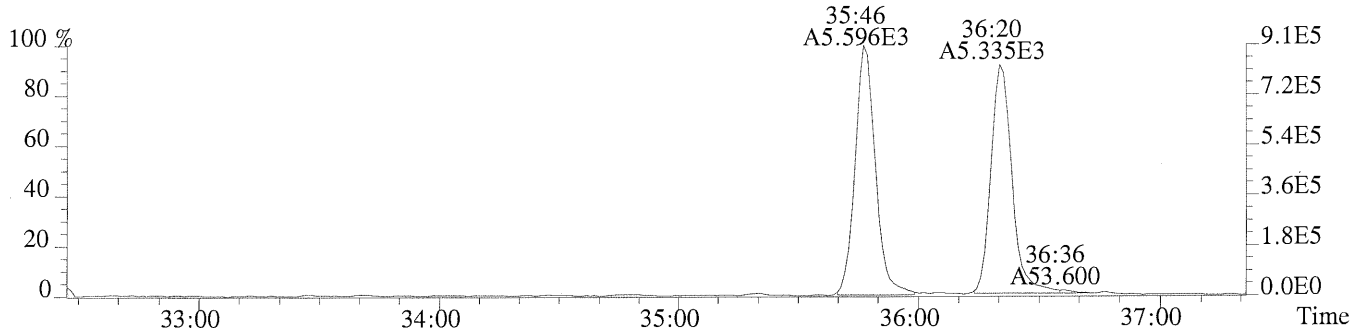
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1596.0,1.00%,F,T)



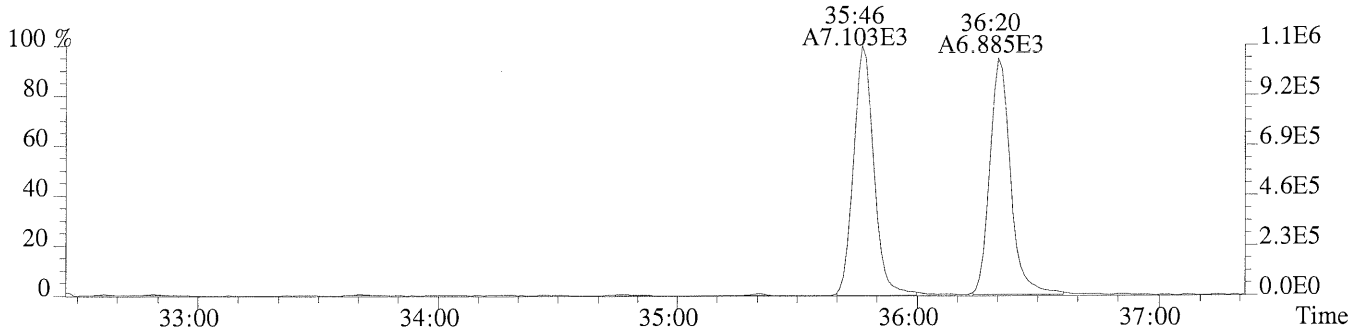
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1544.0,1.00%,F,T)



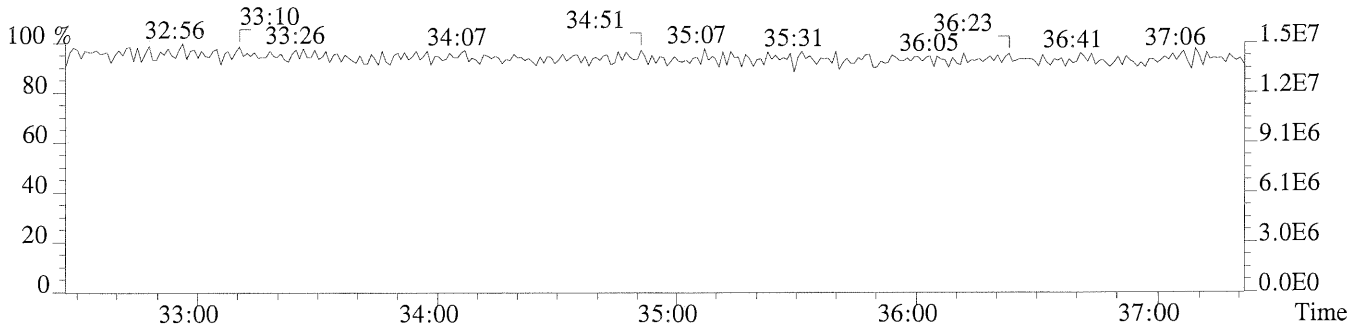
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5024.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1980.0,1.00%,F,T)

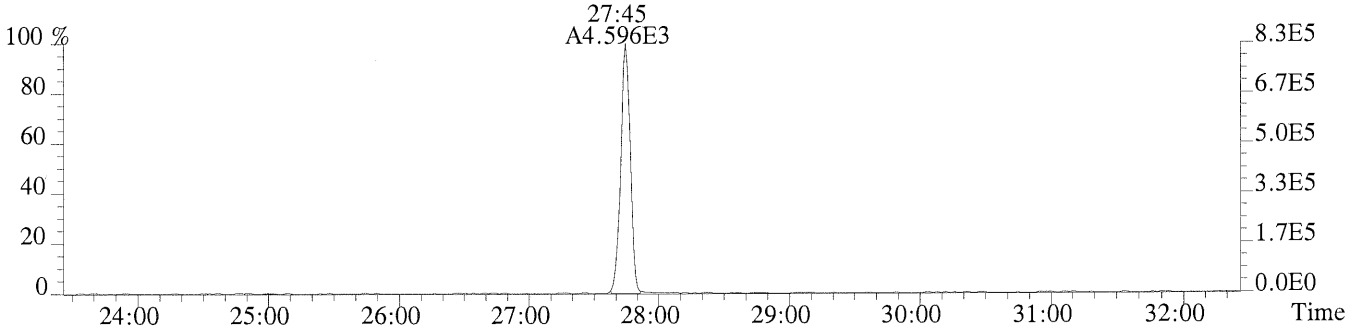


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

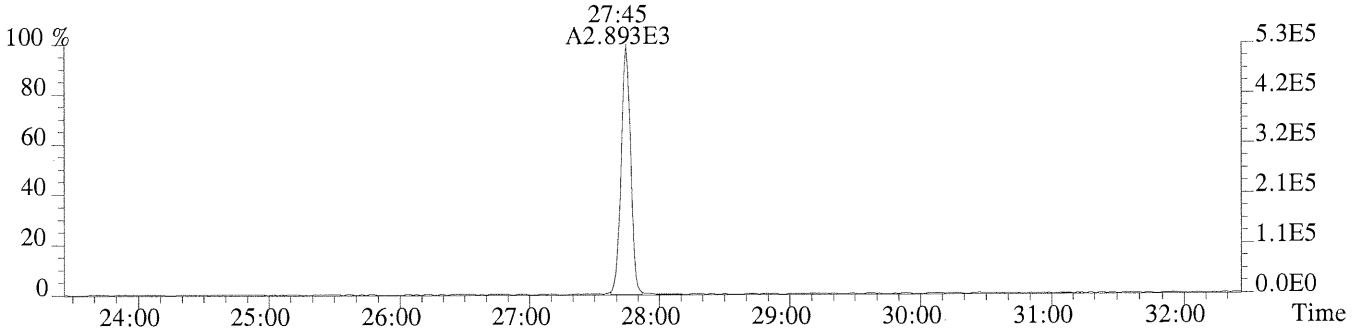


File:U142093 #1-576 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

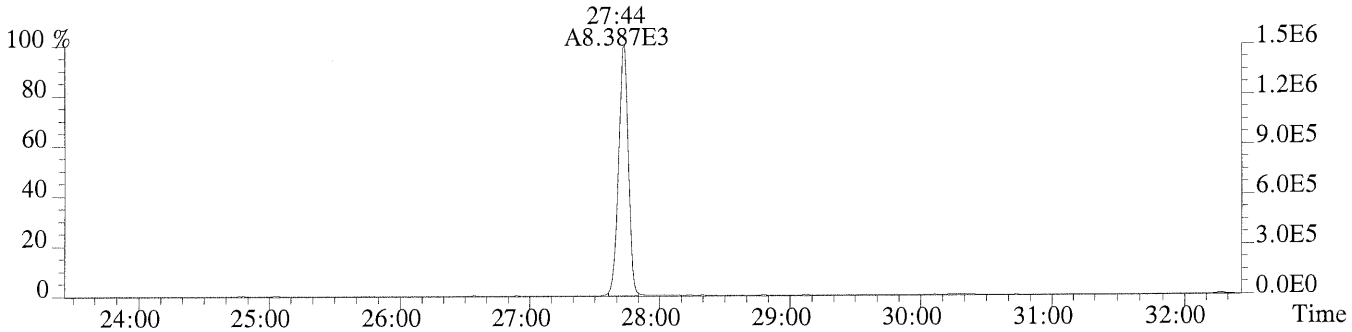
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1120.0,1.00%,F,T)



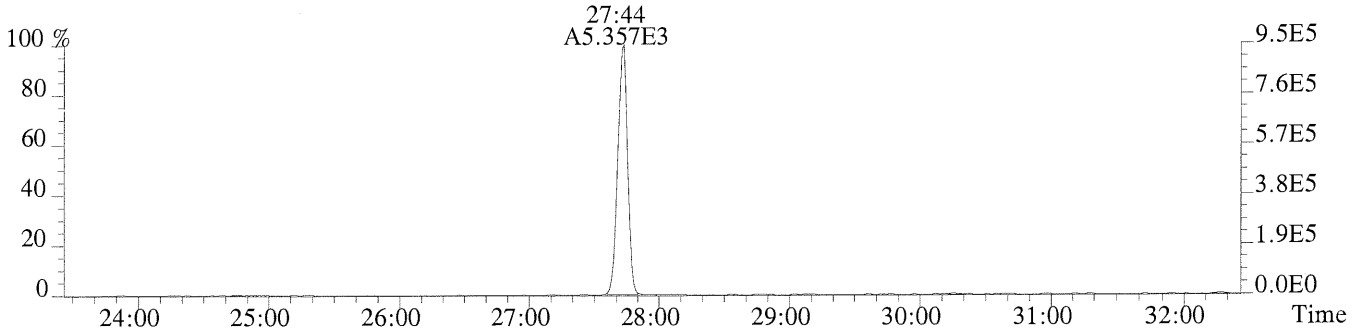
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



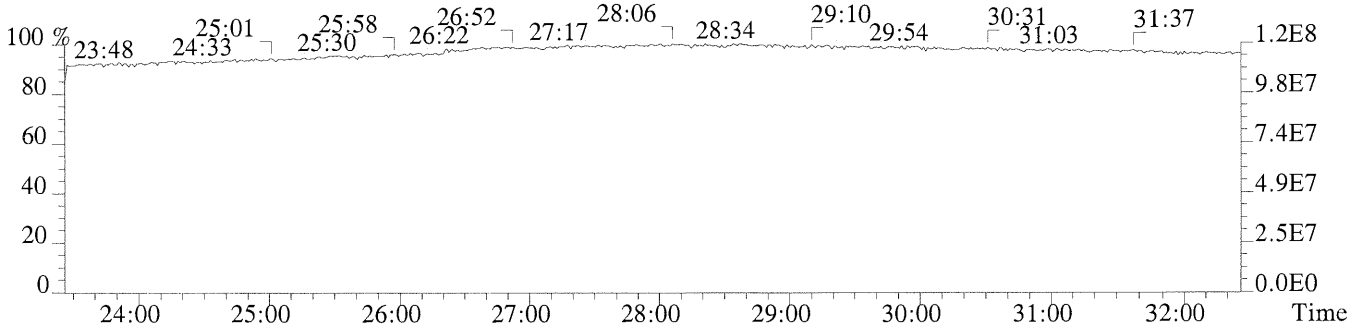
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1168.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)

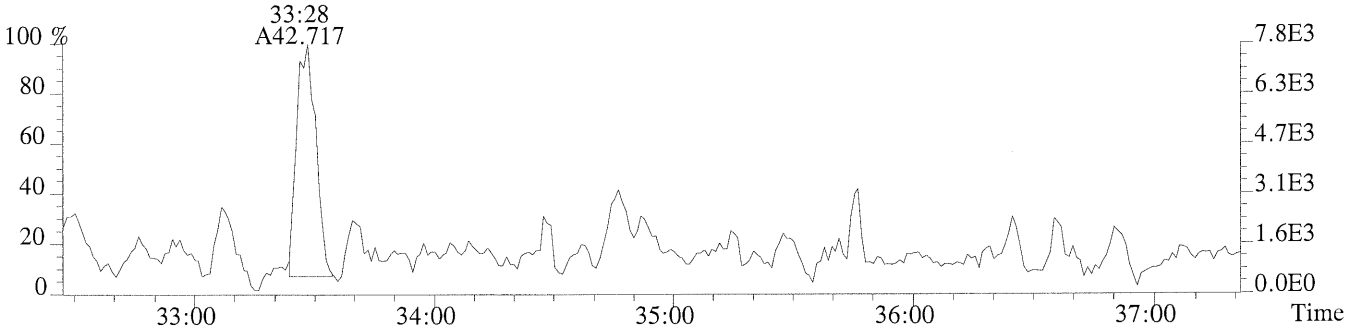


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

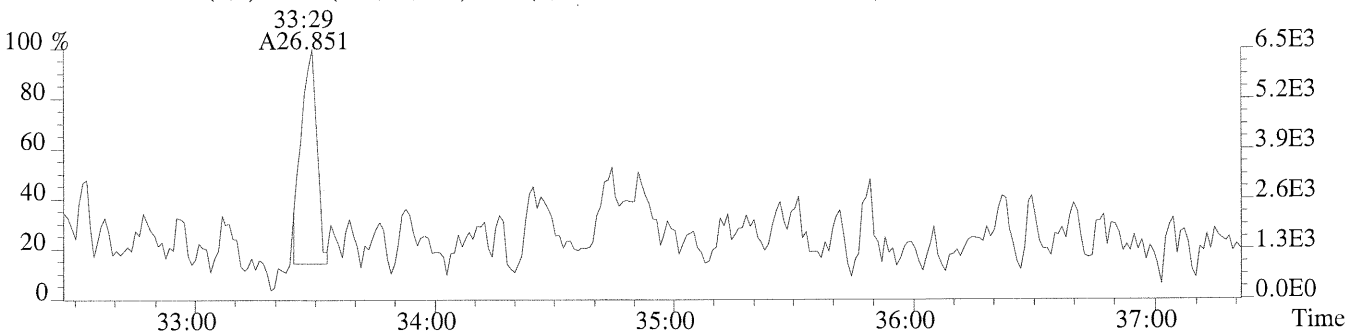


File:U142093 #1-314 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

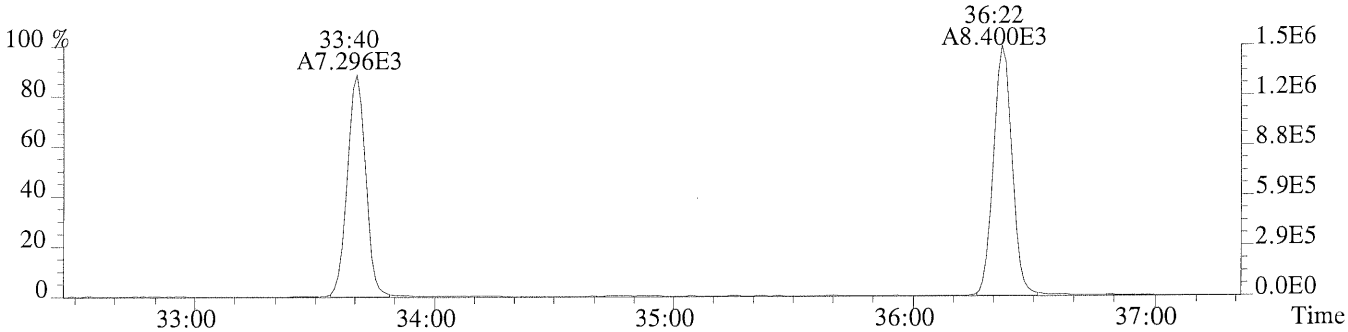
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



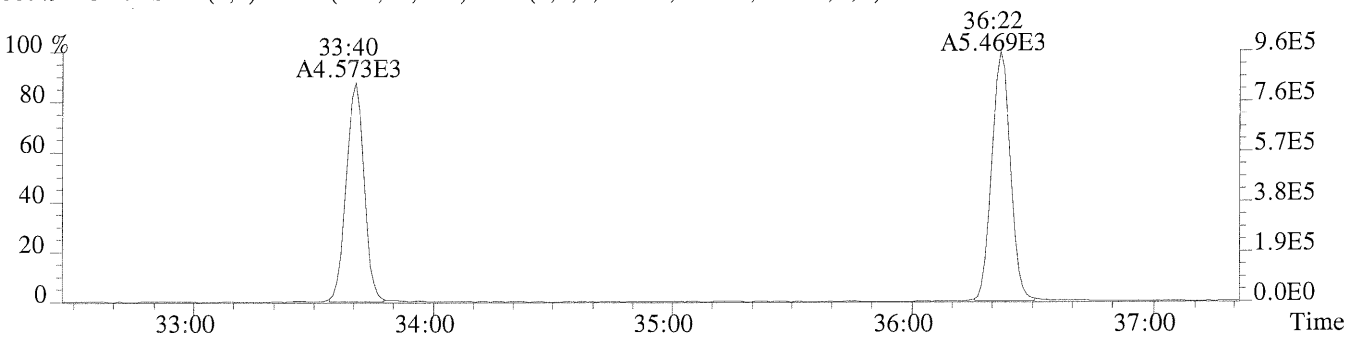
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1940.0,1.00%,F,T)



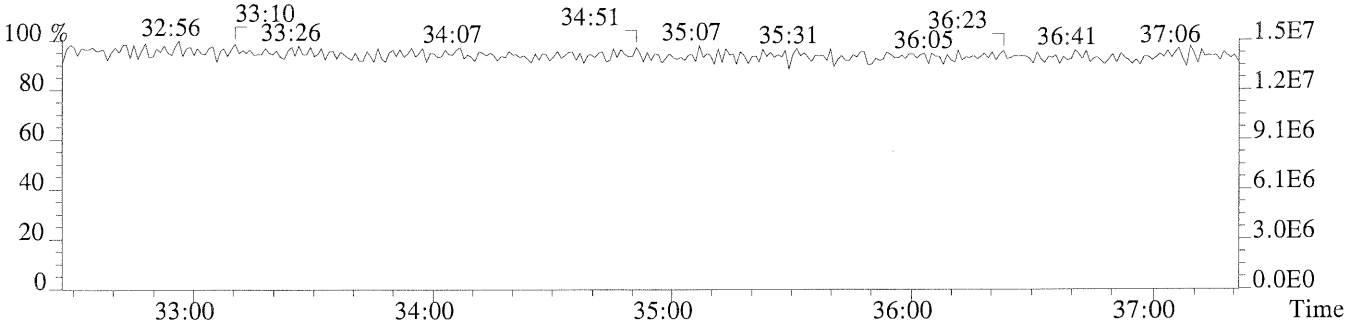
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1712.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1816.0,1.00%,F,T)

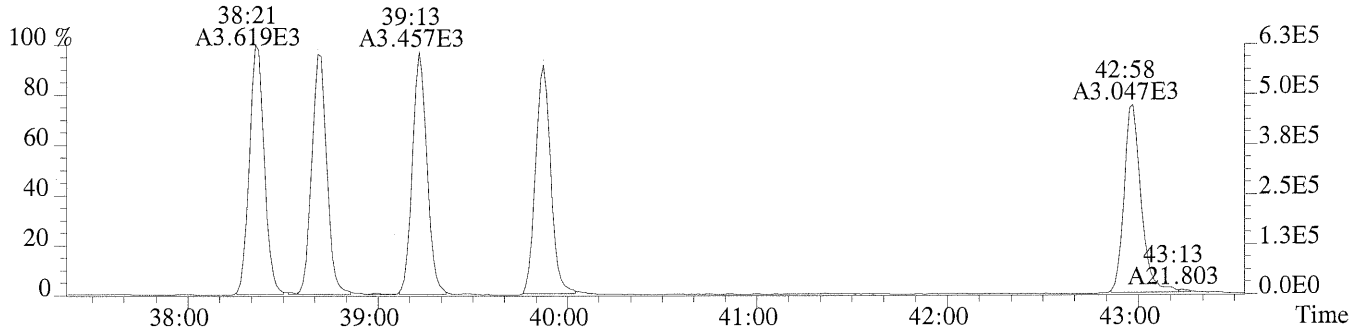


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

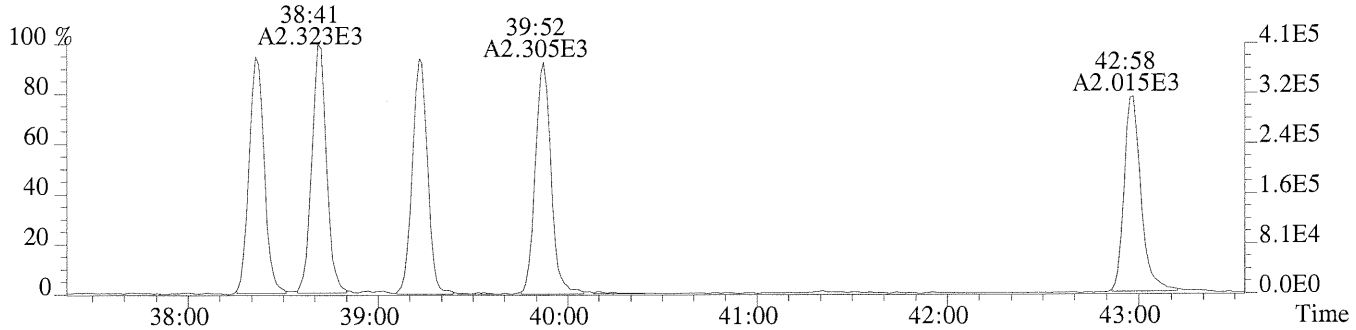


File:U142093 #1-396 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

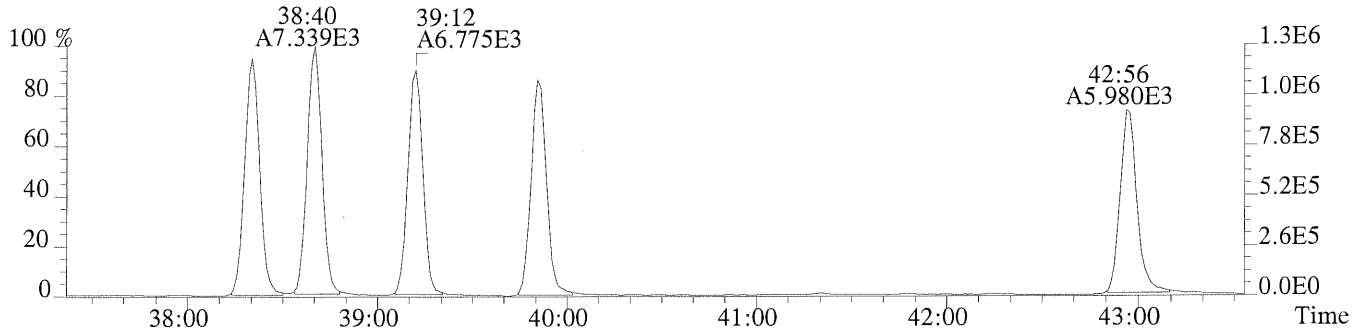
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3592.0,1.00%,F,T)



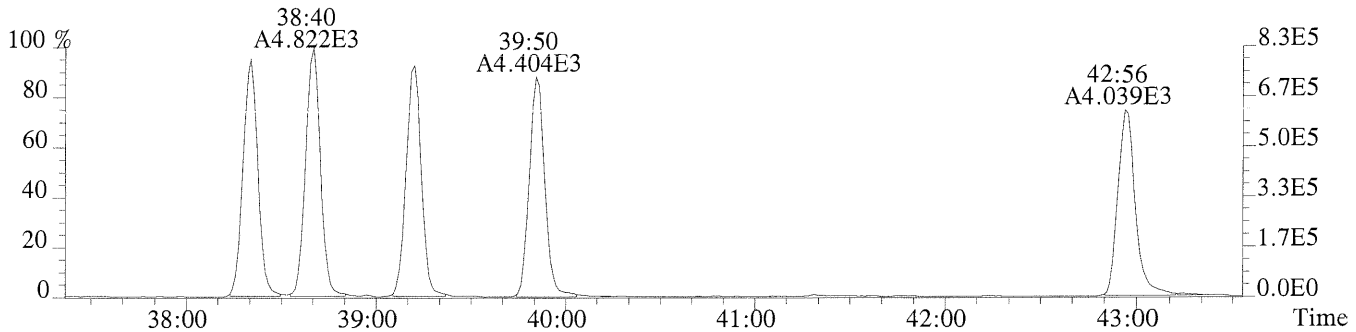
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2872.0,1.00%,F,T)



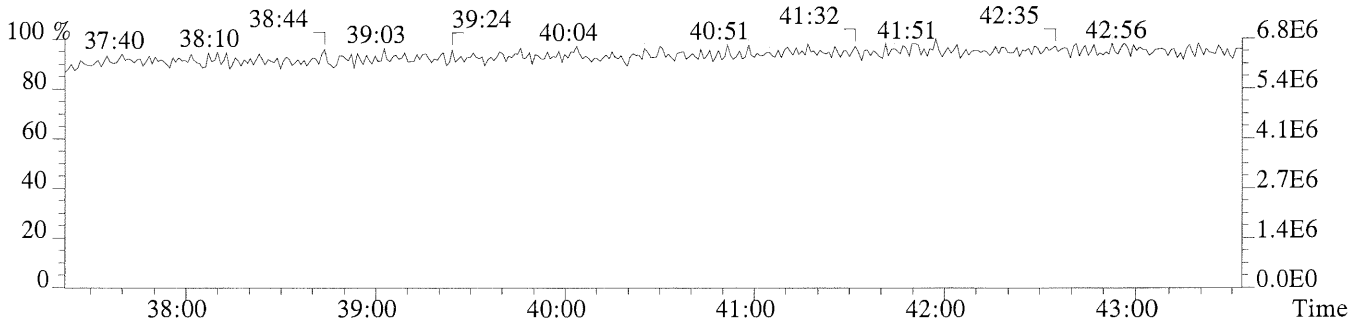
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7600.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4060.0,1.00%,F,T)

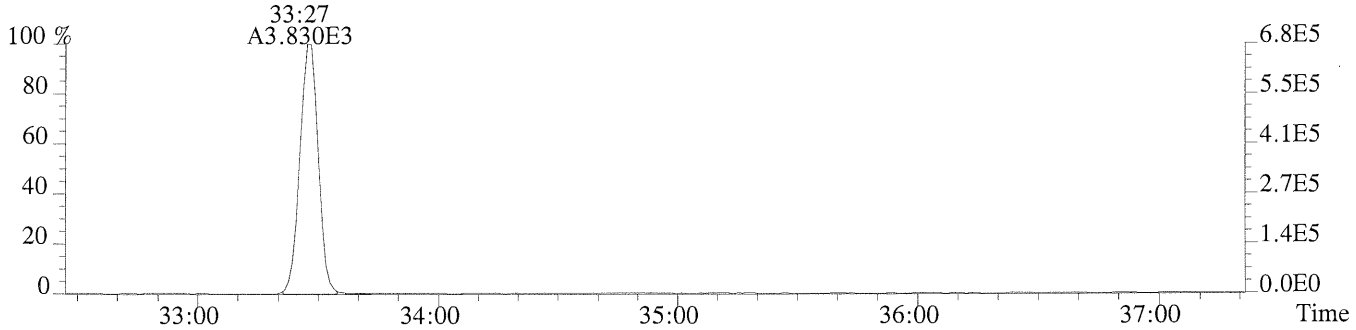


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

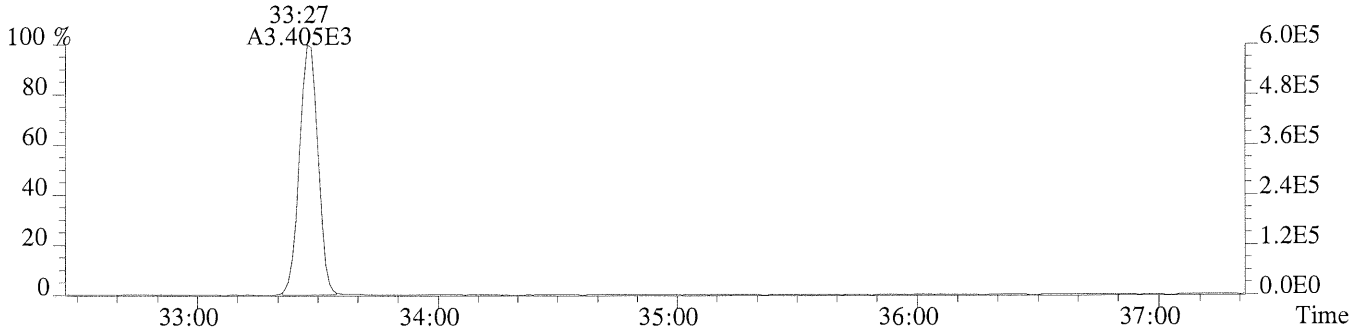


File:U142093 #1-314 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

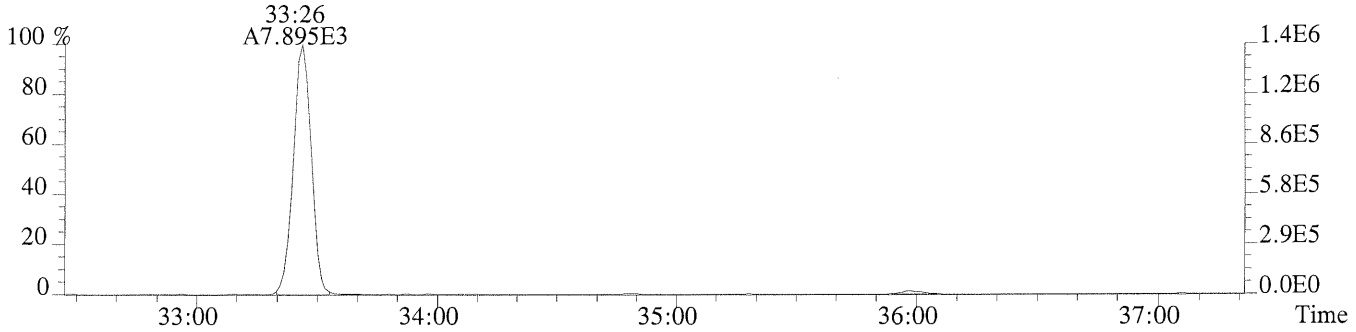
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1204.0,1.00%,F,T)



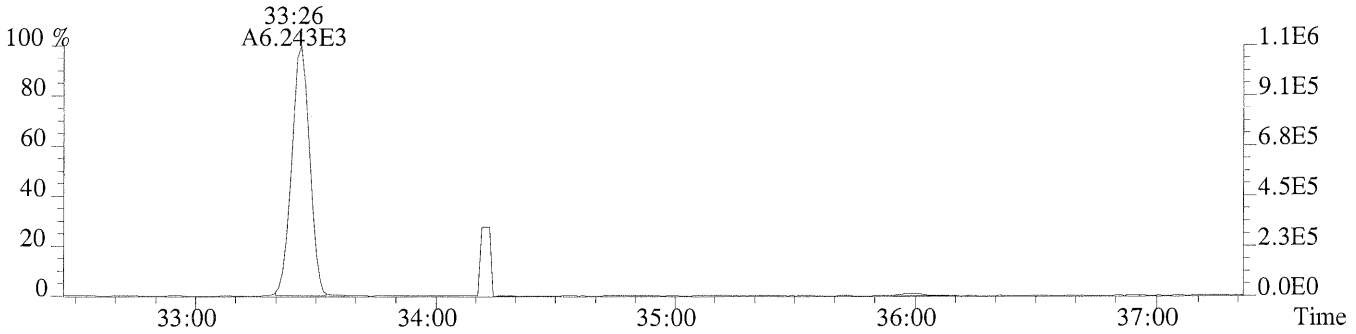
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1348.0,1.00%,F,T)



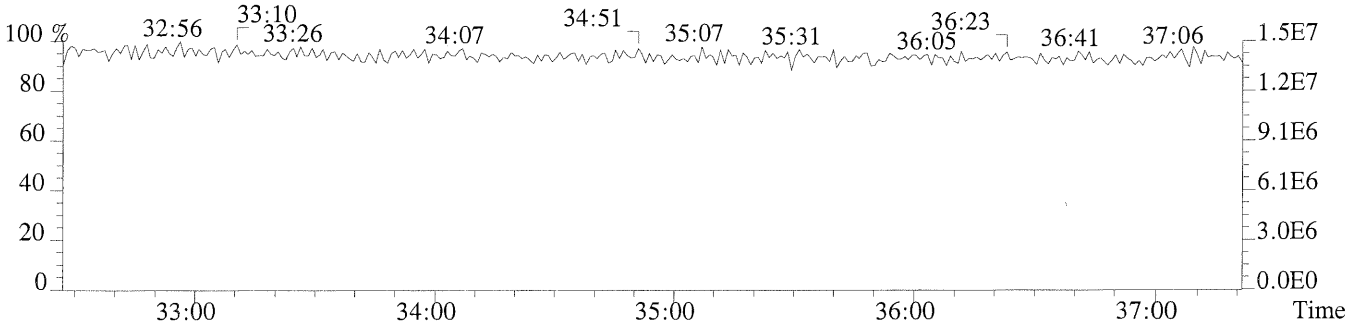
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1692.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2068.0,1.00%,F,T)

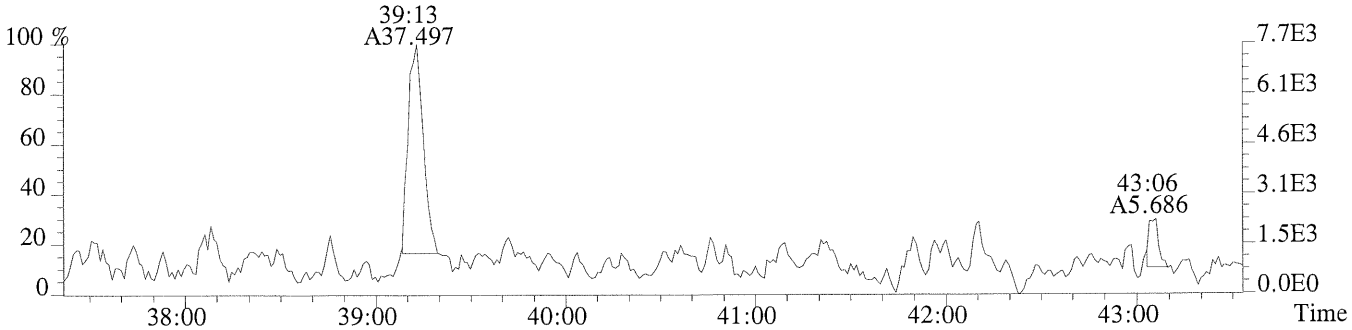


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

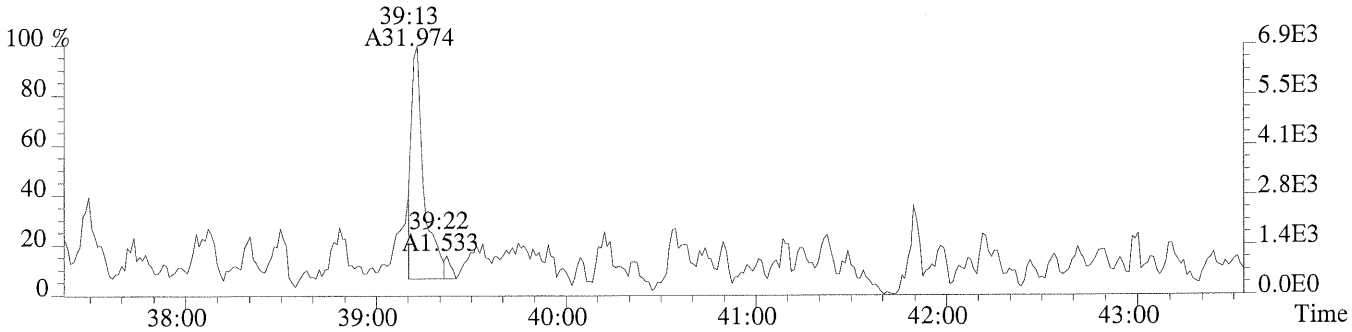


File:U142093 #1-396 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

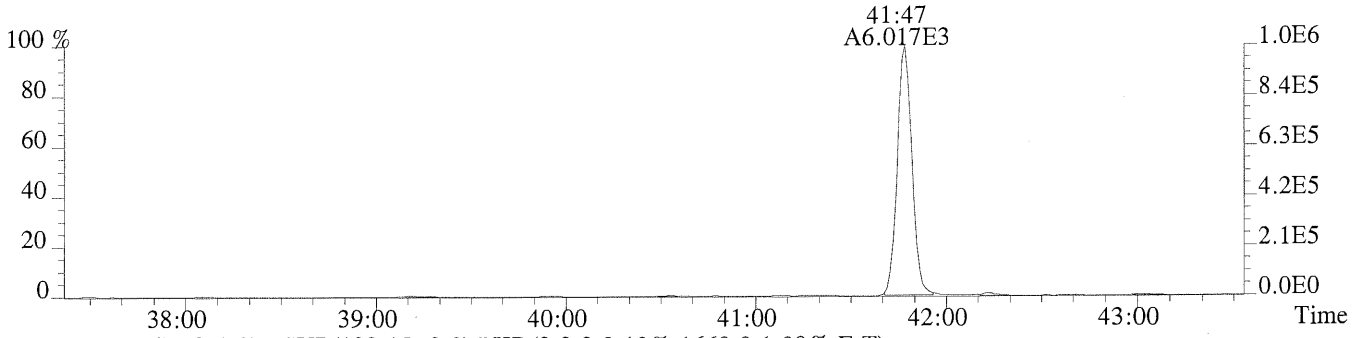
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1160.0,1.00%,F,T)



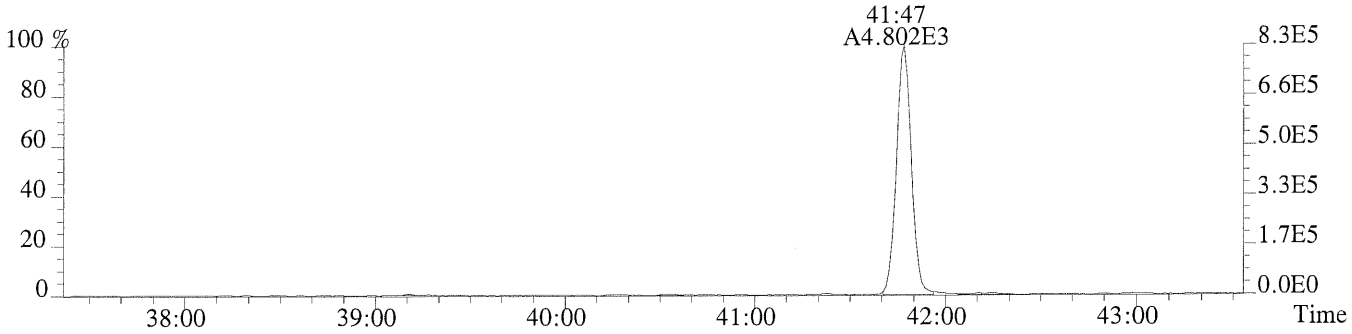
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1148.0,1.00%,F,T)



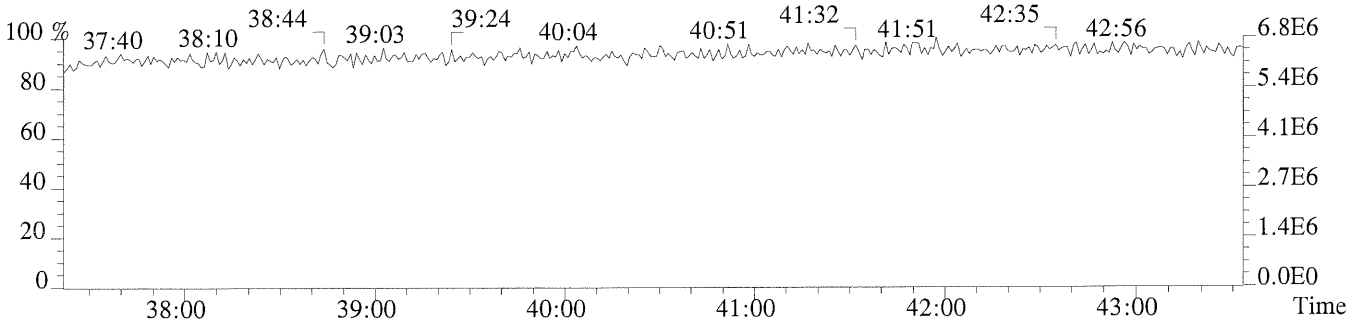
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1660.0,1.00%,F,T)

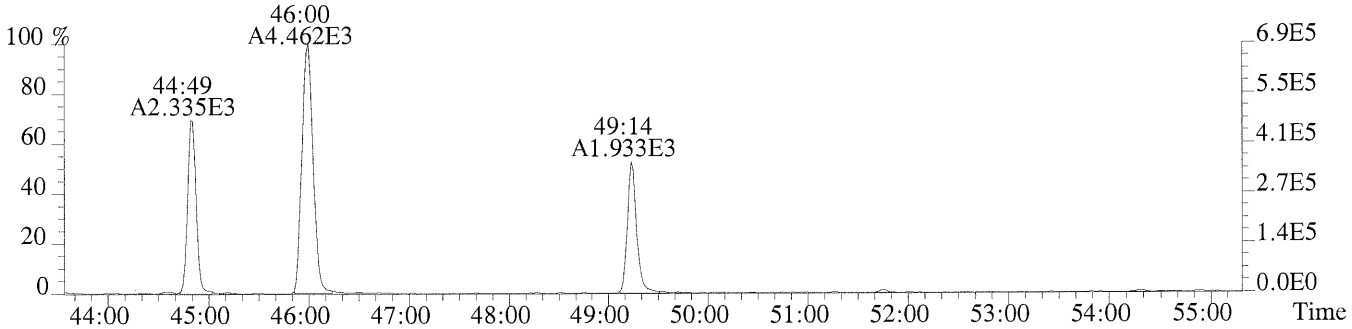


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

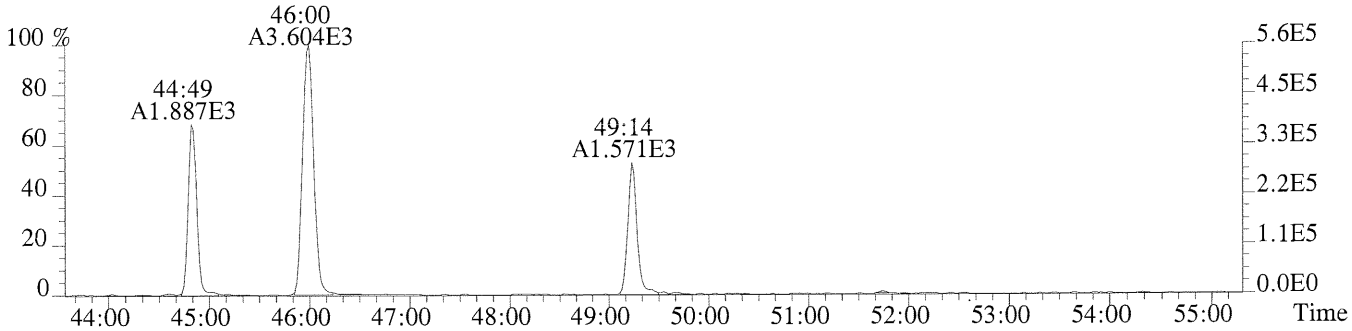


File:U142093 #1-582 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

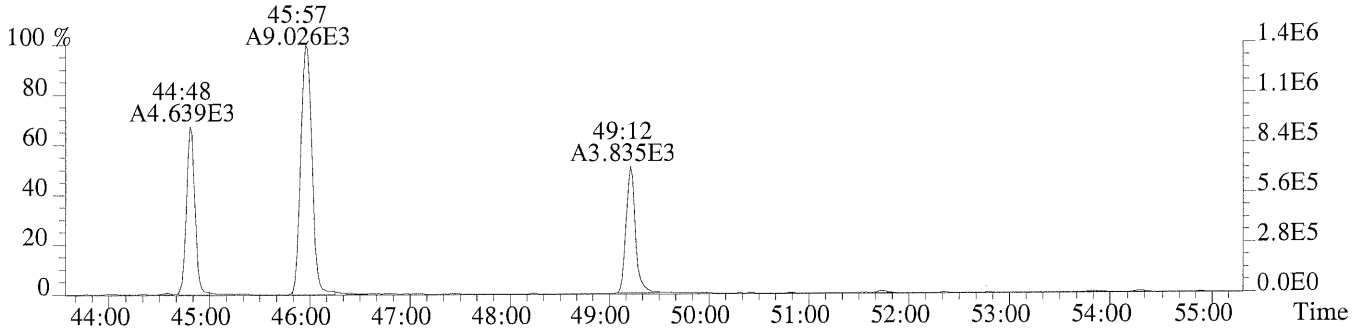
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



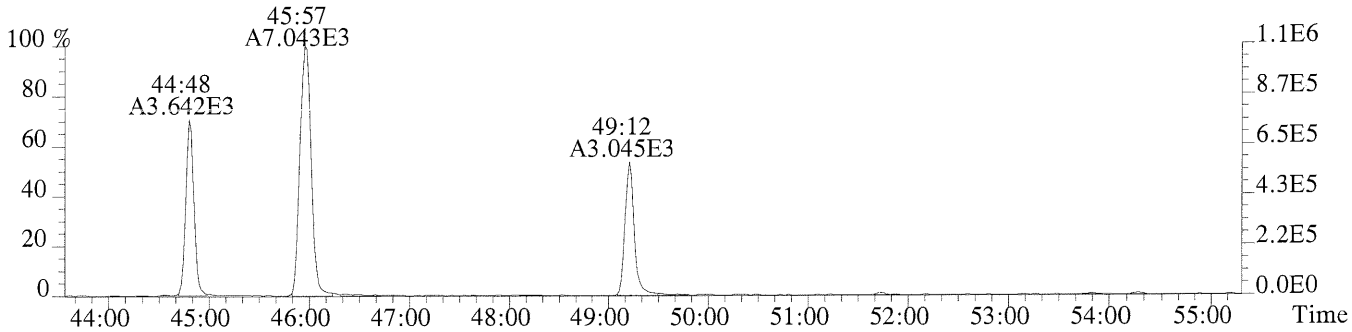
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



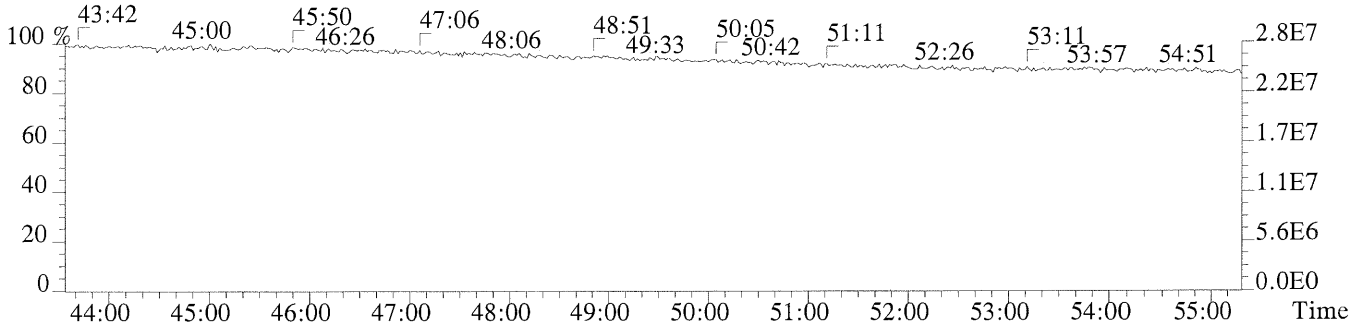
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1584.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1256.0,1.00%,F,T)

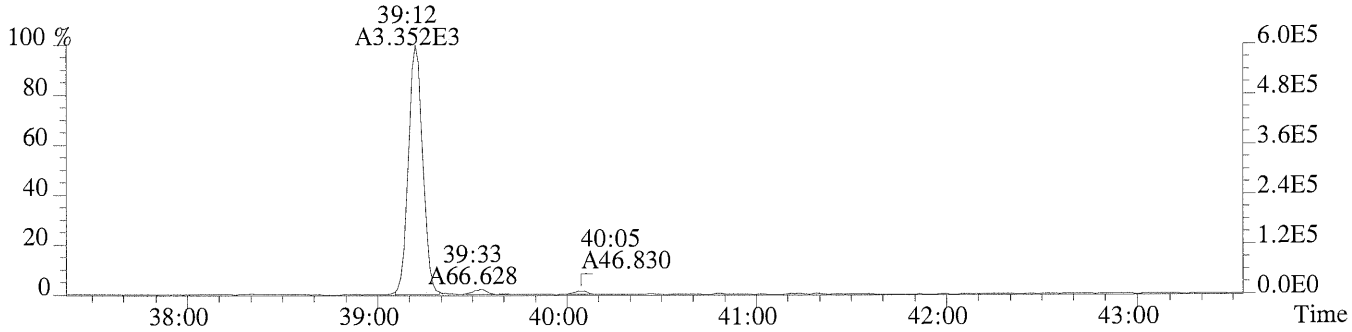


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

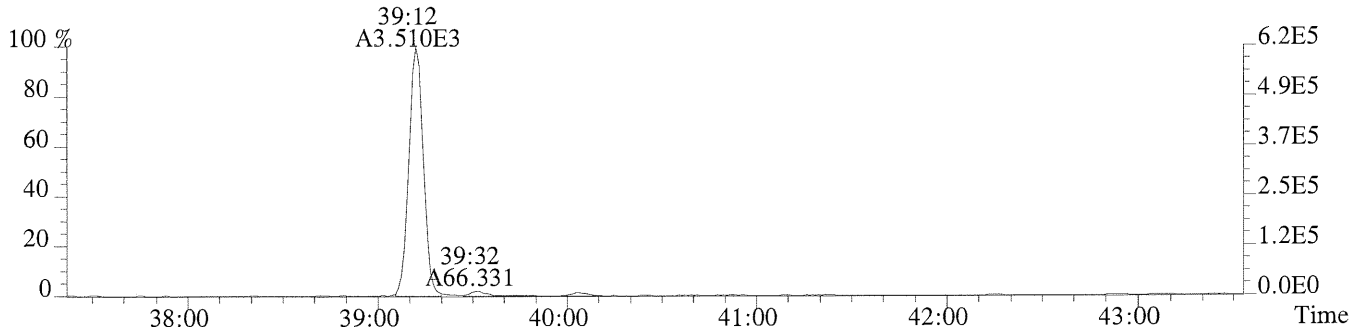


File:U142093 #1-396 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

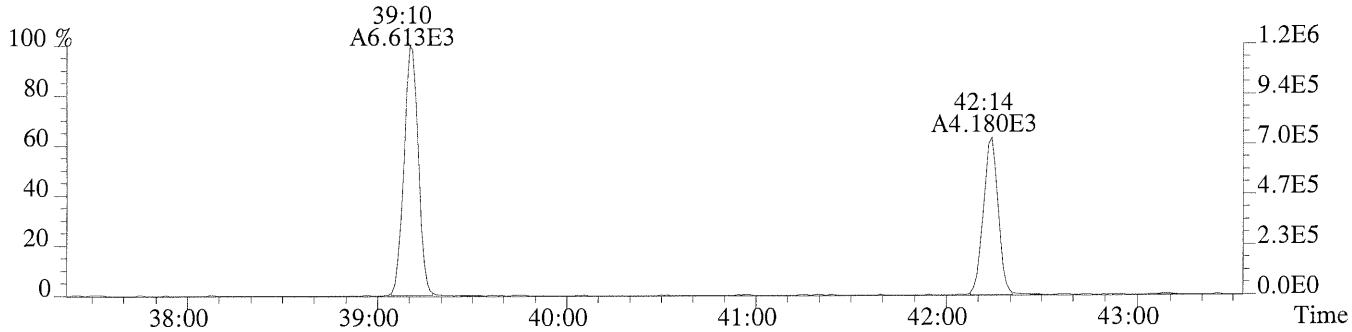
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1480.0,1.00%,F,T)



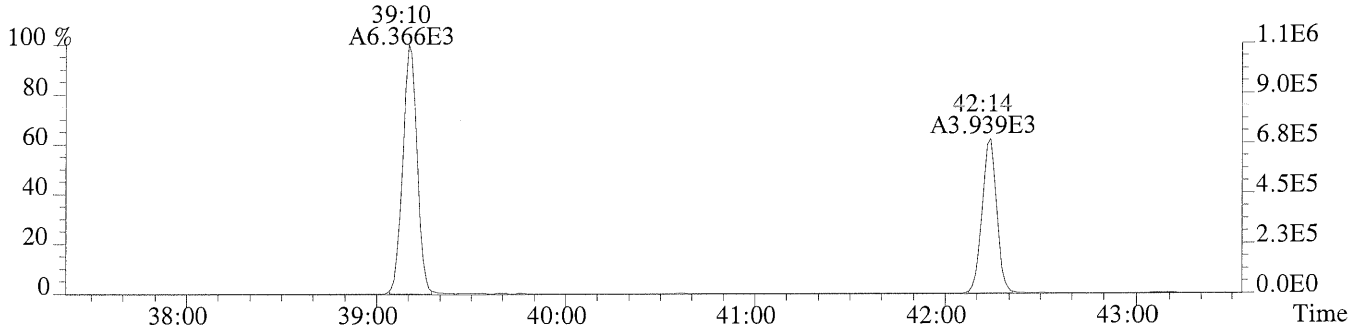
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,816.0,1.00%,F,T)



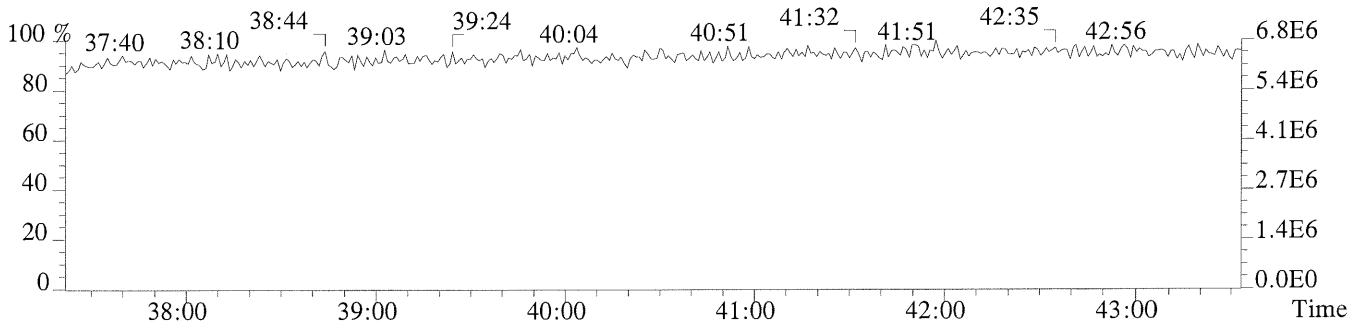
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1372.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)

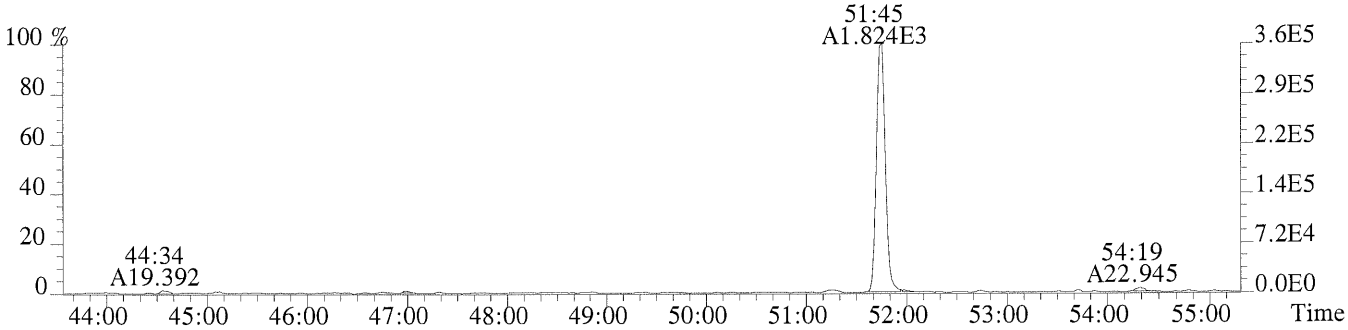


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

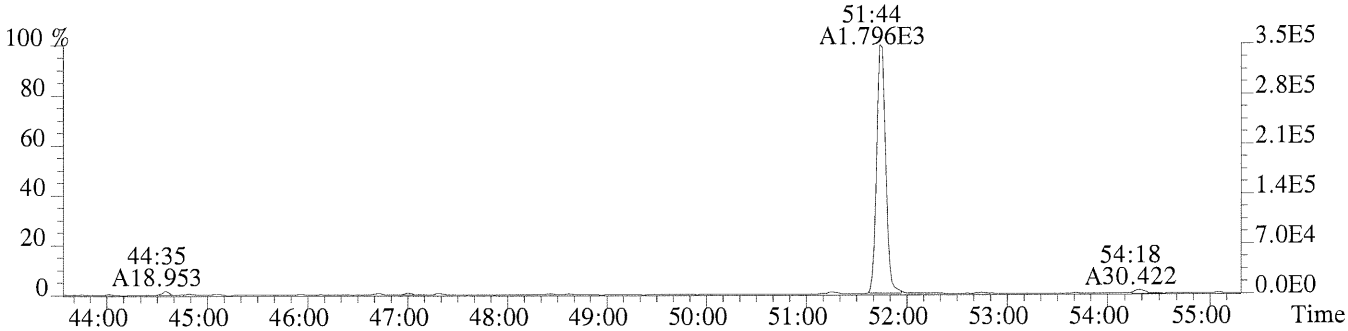


File:U142093 #1-582 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

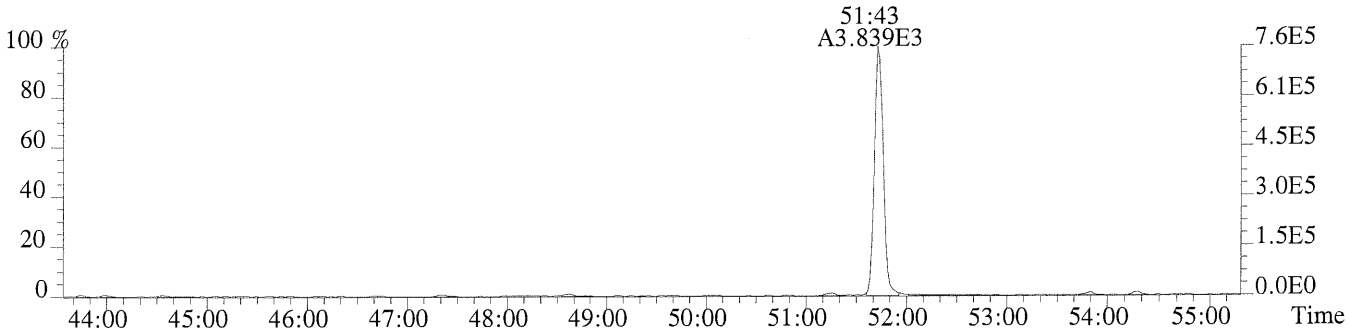
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1840.0,1.00%,F,T)



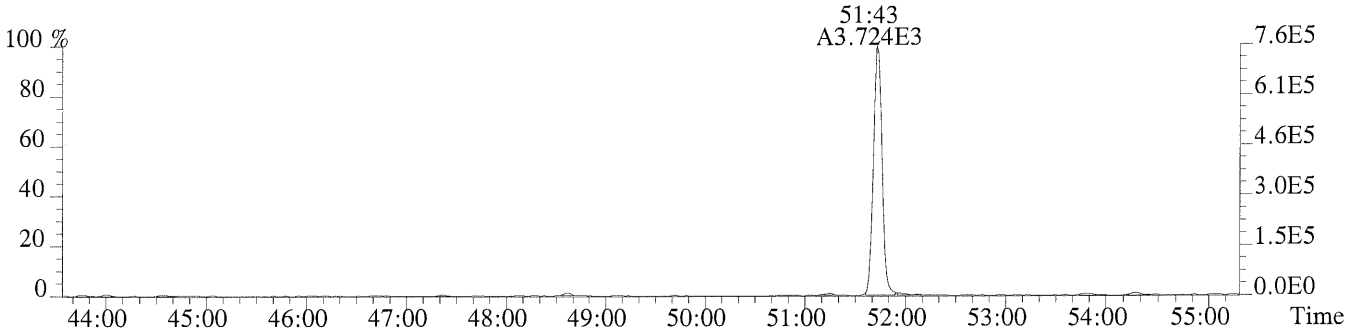
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1268.0,1.00%,F,T)



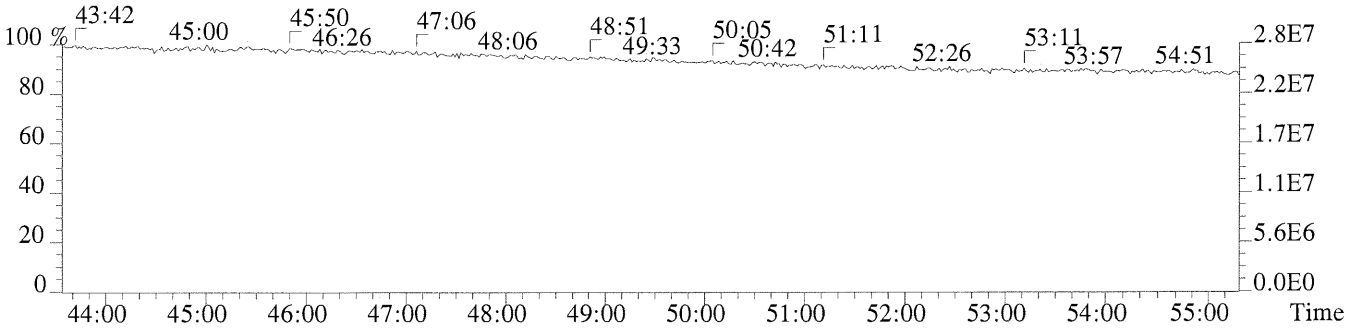
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)

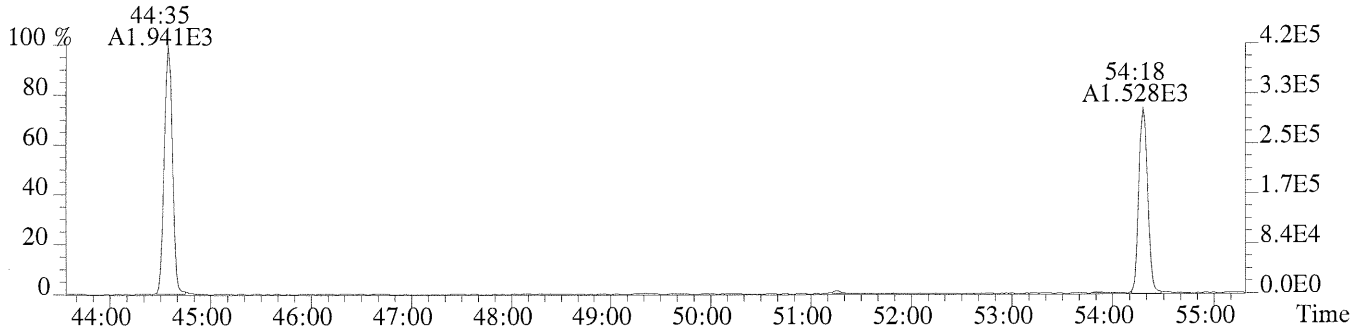


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

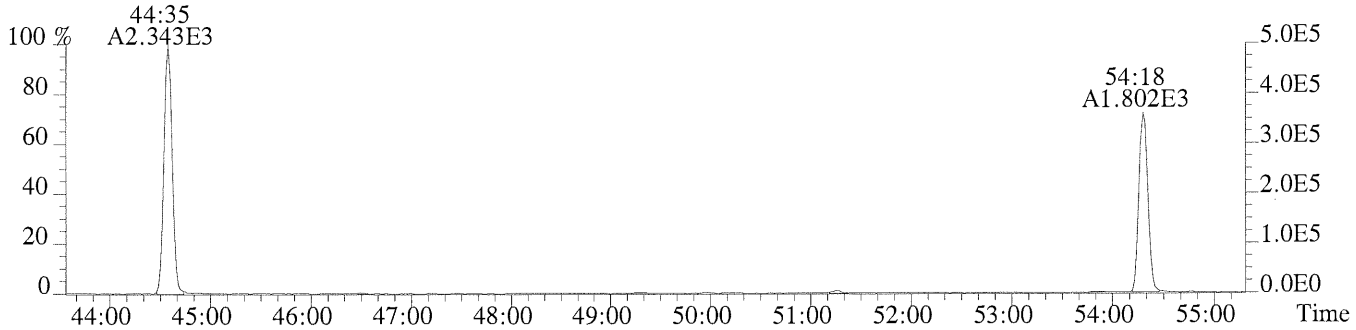


File:U142093 #1-582 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

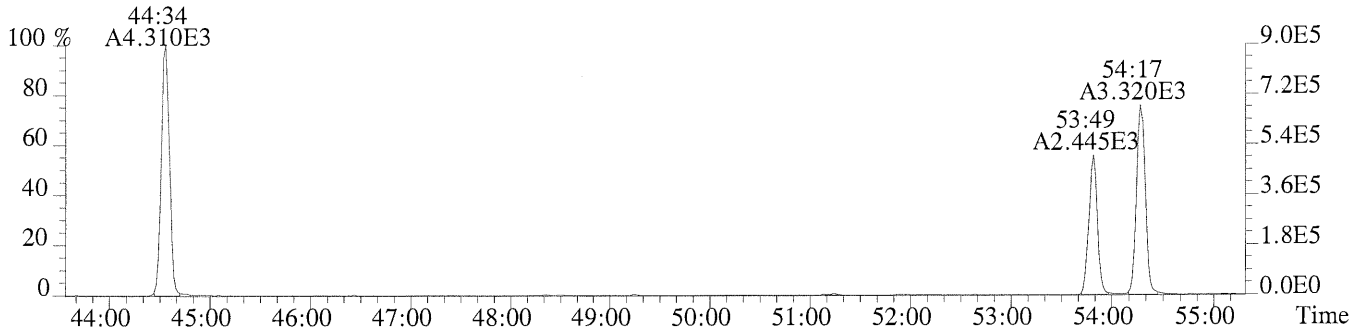
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,780.0,1.00%,F,T)



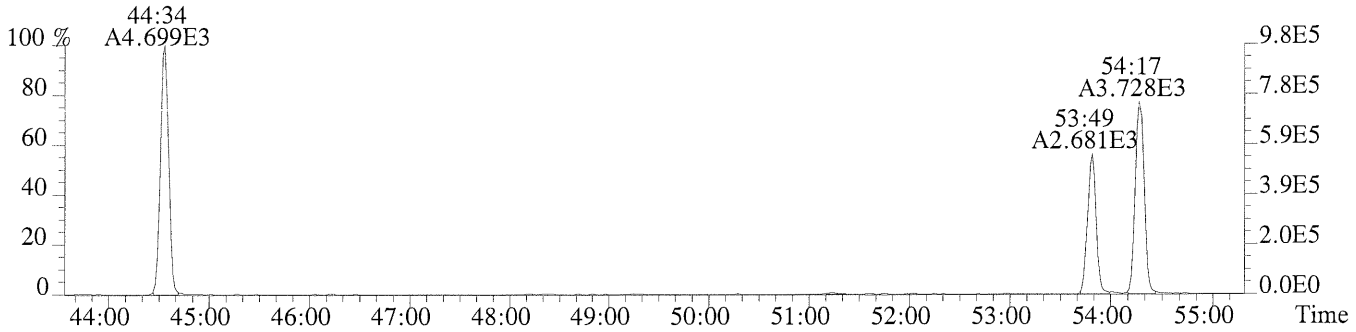
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1232.0,1.00%,F,T)



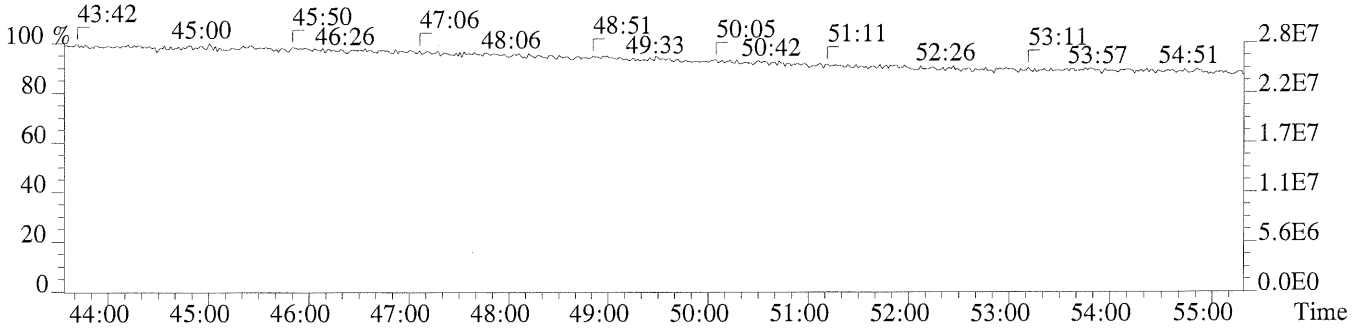
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)

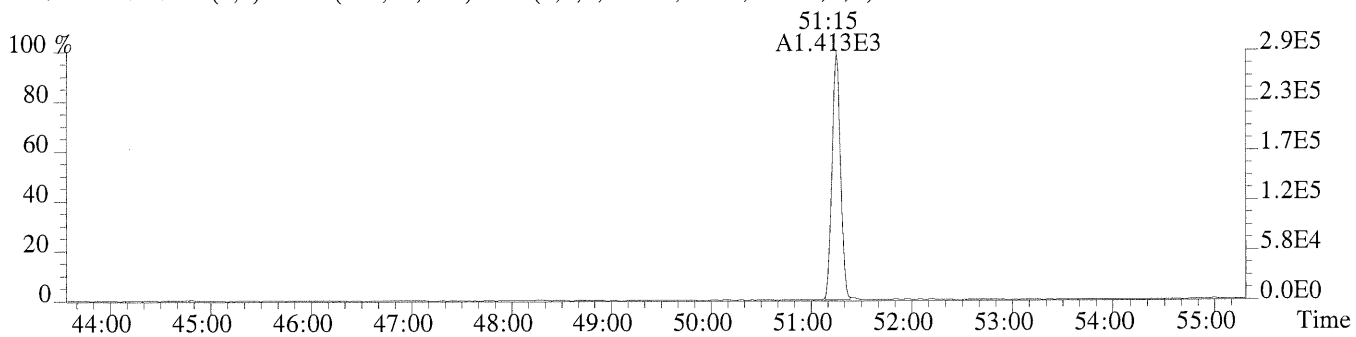


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

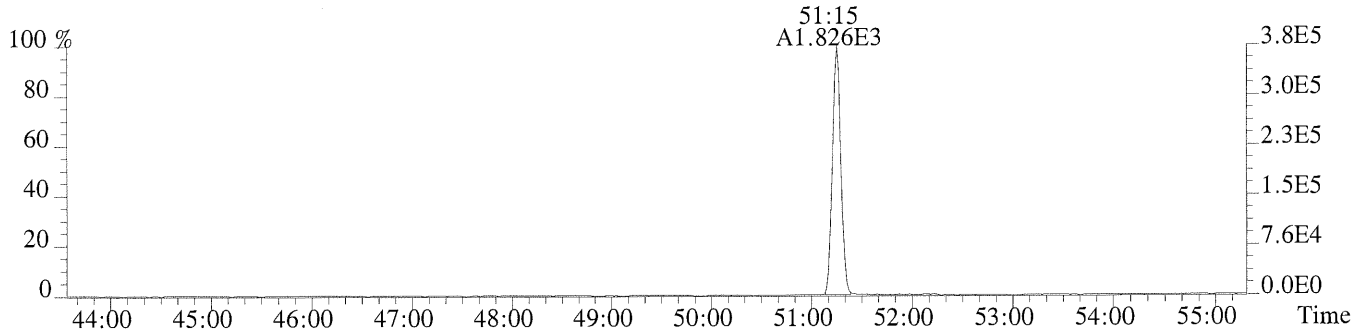


File:U142093 #1-582 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

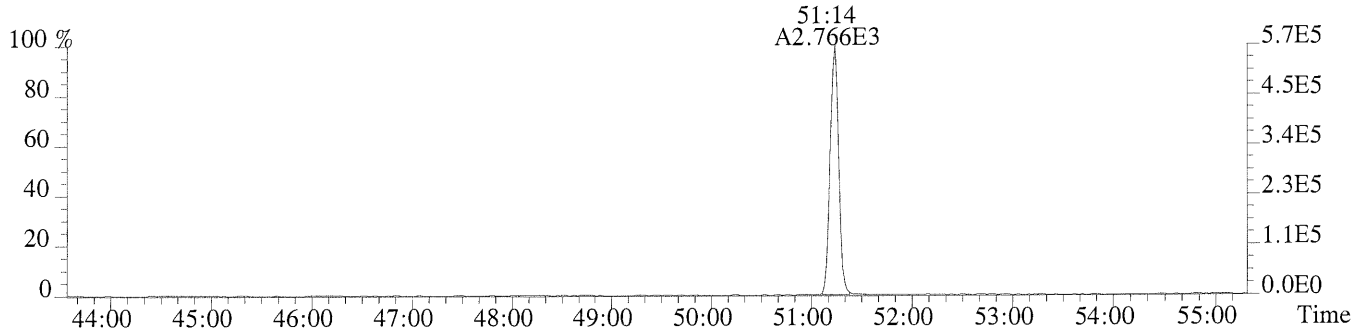
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,788.0,1.00%,F,T)



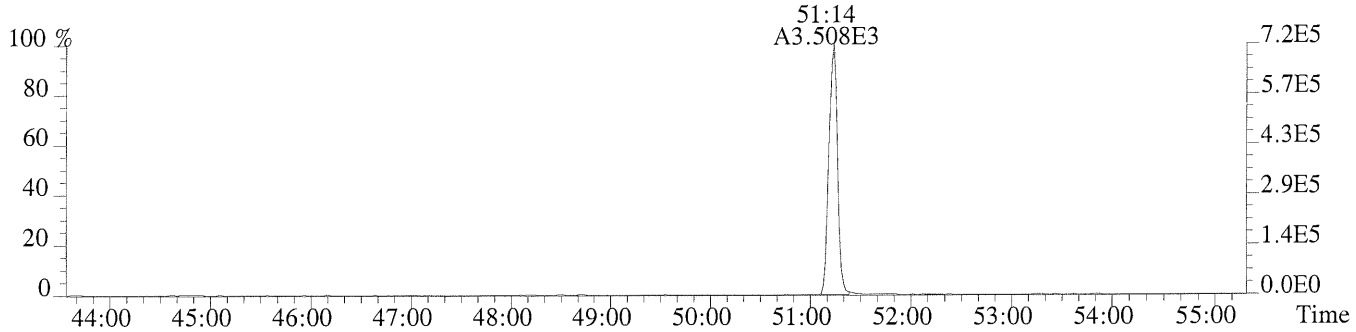
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,980.0,1.00%,F,T)



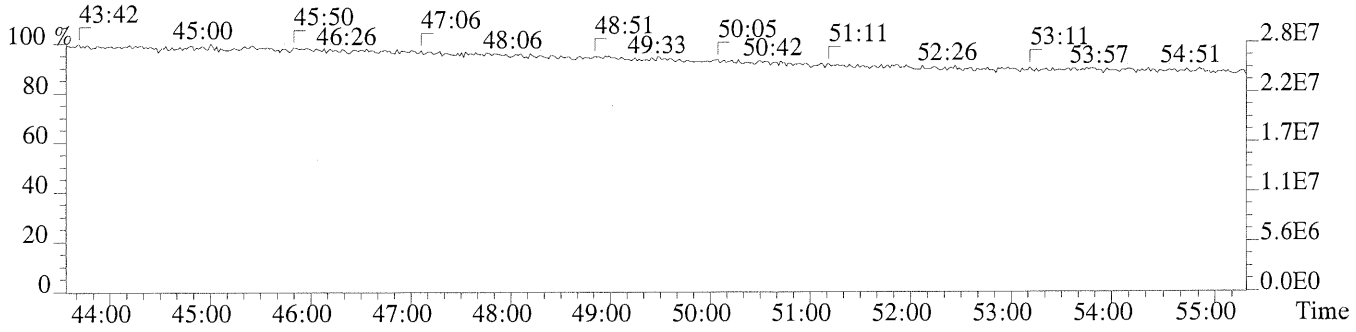
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)

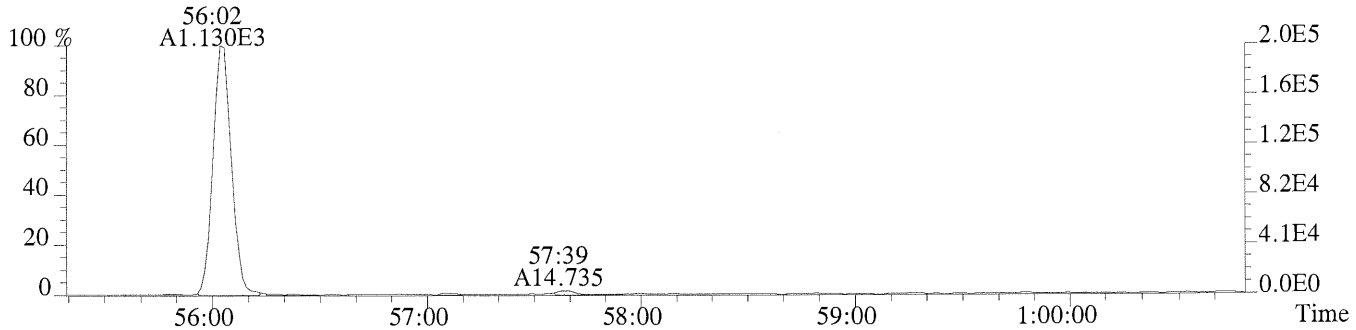


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

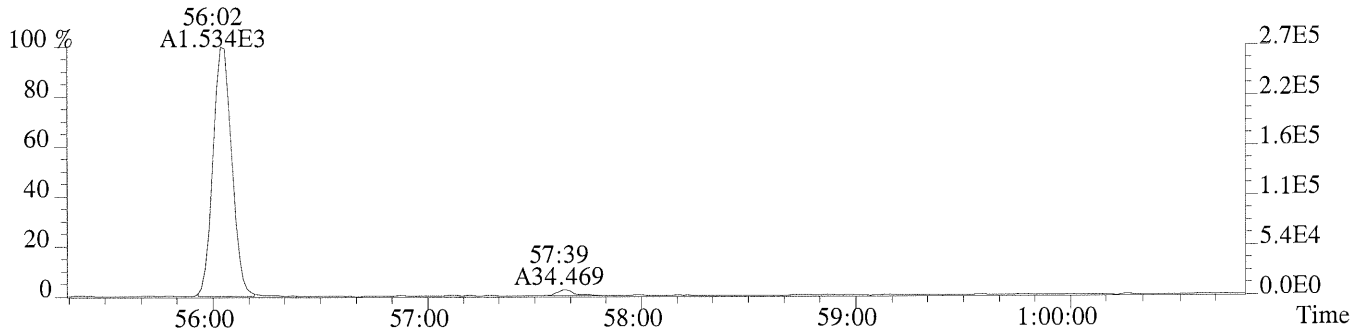


File:U142093 #1-310 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

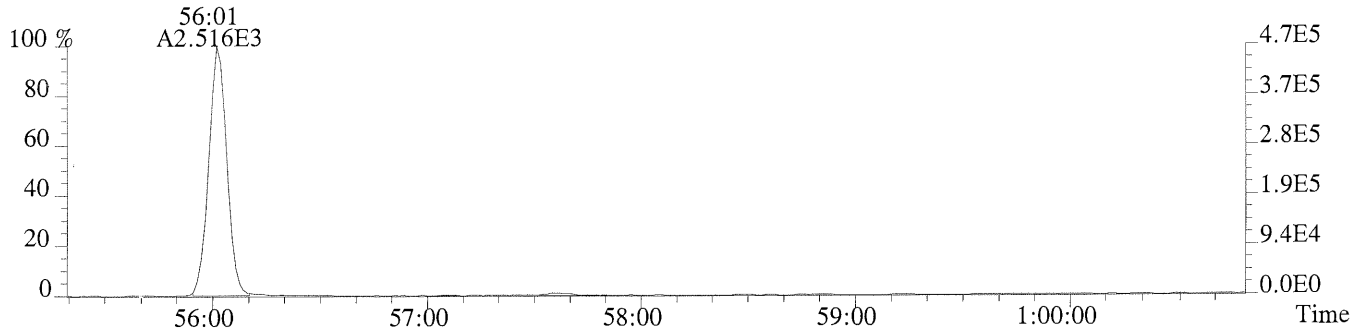
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,684.0,1.00%,F,T)



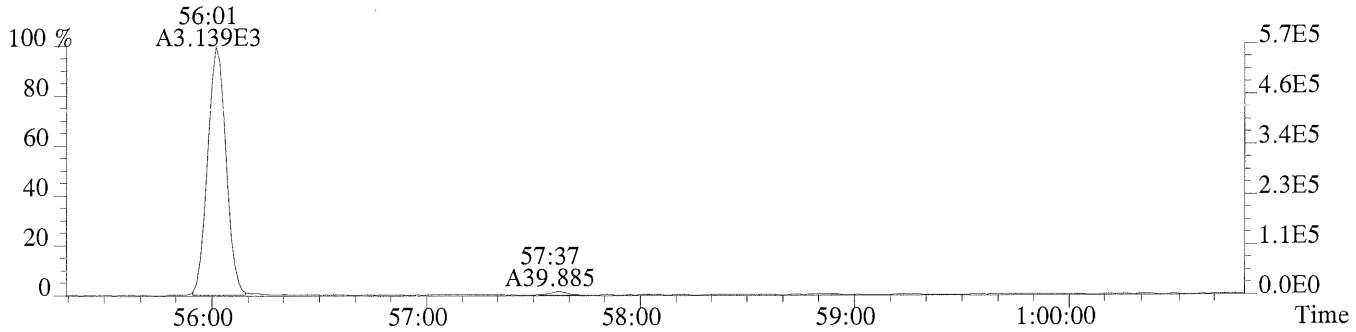
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1072.0,1.00%,F,T)



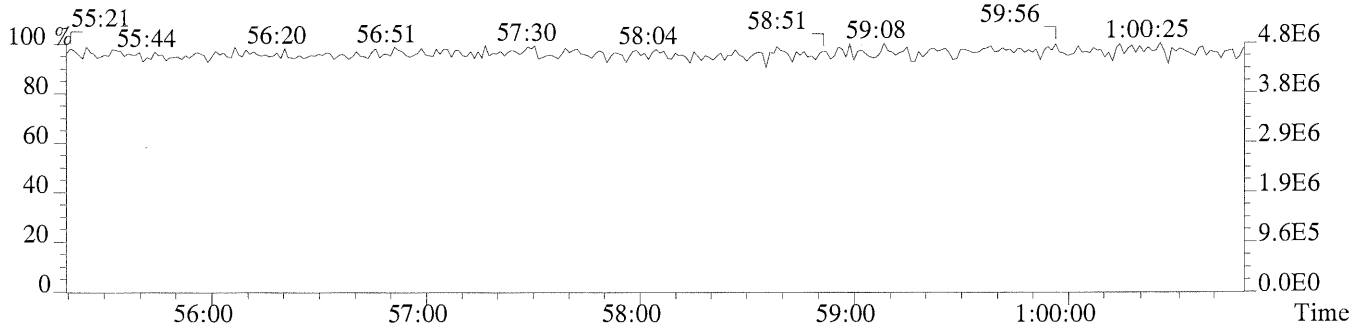
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,828.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1148.0,1.00%,F,T)

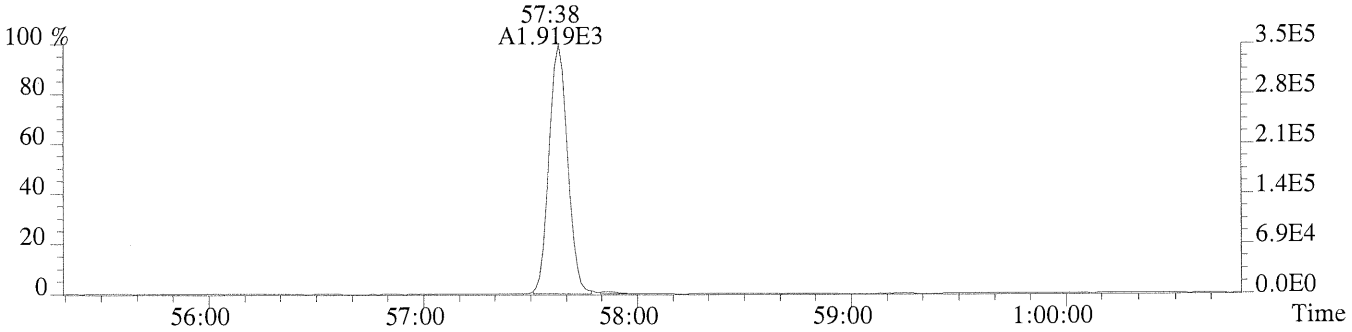


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

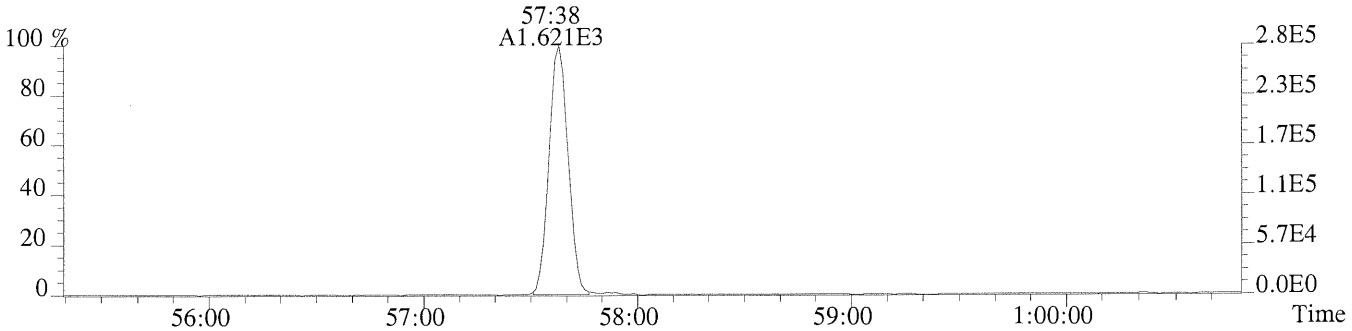


File:U142093 #1-310 Acq:12-NOV-2011 07:18:55 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

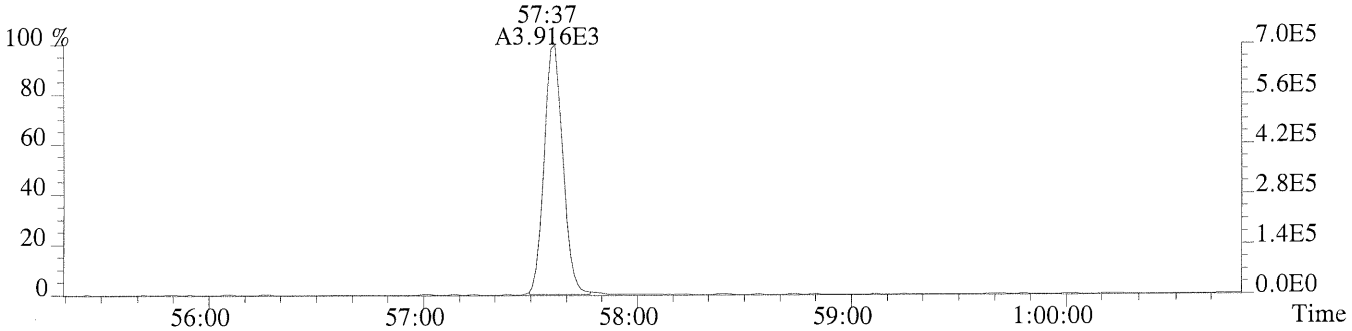
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)



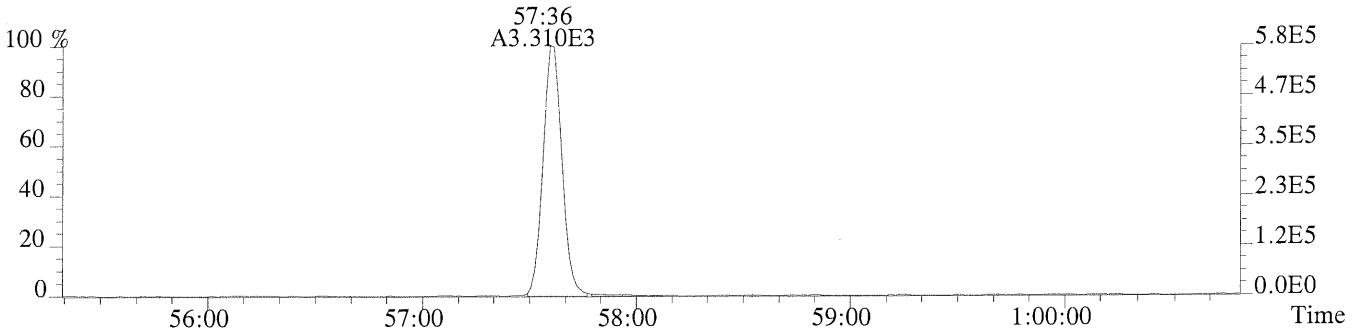
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,848.0,1.00%,F,T)



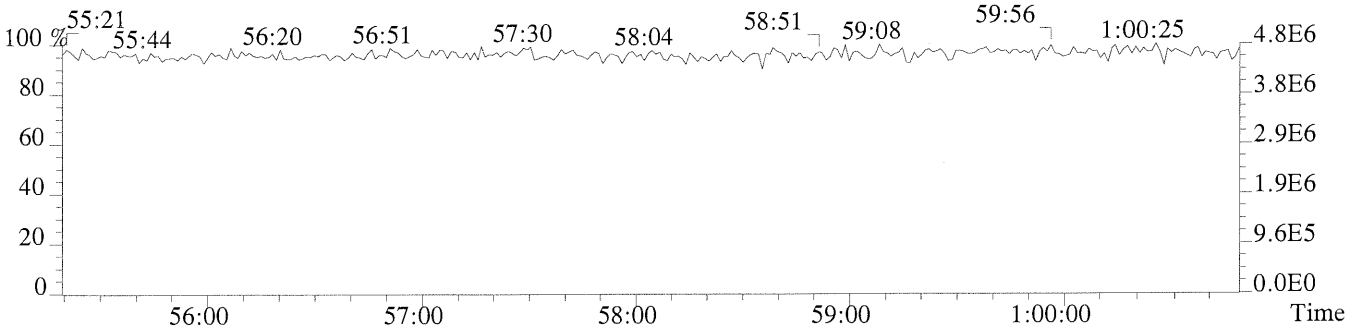
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



RW/CS3 Daily Calibration QC Checklist

Calibration File Name: U142149

Circle one
Beginning **Ending**

Date: 11/21/11

Method: **1668 WHO** **1668 Total** **1668 (209)** **1668 WHO & TOTAL**

Date 11/26/11	**First Reviewer**	JC

Date 11/22/11	**Second Reviewer**	SR

5DFC
PCDD/PCDF/PCB ANALYTICAL SEQUENCE SUMMARY

Lab Name: Columbia Analytical Services Contract:

Lab Code: TX01411 Case No.: SDG No.:

GC Column: SPB-OCTYL ID: 0.25 (mm) Instrument ID: E-HRMS-01

Init. Calib. Date: 02/23/11

Init. Calib.Times: 09:22

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, AND LABORATORY CONTROL SAMPLES (LCSs) IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CCAL CS3	CCAL CS3	U142149	21-NOV-11	12:58:21
PCB 209 INJECTION	PCB 209 INJECT	U142147	21-NOV-11	09:35:46
METHOD BLANK	EQ1100535-01	U142150	21-NOV-11	14:29:51
CA-109, CARBON COL	E1101111-001	U142151	21-NOV-11	15:32:31
B4-IAI-PCBS	E1101017-006	U142152	21-NOV-11	16:41:04

E1101017

Sample List Report MassLynx 4.1

Sample List: C:\MassLynx\CASHOUSTON.PRO\SampleDB\U1111121.SPL
Last Modified: Monday, November 21, 2011 14:19:18 Central Standard Time
Printed: Monday, November 21, 2011 17:54:34 Central Standard Time

Columbia Analytical Services
19408 Park Row
Suite 320
Houston, Texas 77084

Page Position (1, 1)

U142149res/cal/surr

	Date	Time	File Name	Sample ID	Client ID	Analyst	Comments	GC Met	Acq Met
1	11/21/11	09:35	U142147	PCB 209 INJECTION	B4-25-1		HRMS Check 09:32	1668EPA	1668EPA
2		10:55	U142148	CCAL CS3	B2-26-1		DO NOT USE	1668EPA	1668EPA
3		12:58	U142149	CCAL CS3	B2-26-1			1668EPA	1668EPA
4		14:29	U142150	EQ1100535-01	MB		HRMS Check 14:23	1668EPA	1668EPA
5		15:32	U142151	E1101111-001	CA-109, Carbon Column			1668EPA	1668EPA
6		16:41	U142152	E1101017-006	B4-IA1-PCBs		HRMS Check 18:17	1668EPA	1668EPA
7			---	---	---			1668EPA	1668EPA
8			---	---	---			1668EPA	1668EPA
9			---	---	---			1668EPA	1668EPA
10			---	---	---			1668EPA	1668EPA
11			---	---	---			1668EPA	1668EPA
12			---	---	---			1668EPA	1668EPA
13			---	---	---			1668EPA	1668EPA
14			---	---	---			1668EPA	1668EPA
15			---	---	---			1668EPA	1668EPA
16			---	---	---			1668EPA	1668EPA
17			---	---	---			1668EPA	1668EPA
18			---	---	---			1668EPA	1668EPA
19			---	---	---			---	---
20			---	---	---			---	---
21			---	---	---			TCDFCAS	TCDFCAS
22			---	---	---			1668EPA	1668EPA
23			---	---	---			---	---
24			---	---	---			---	---
25			---	---	---			TCDFCAS	TCDFCAS
26			---	---	---			TCDFCAS	TCDFCAS
27			---	---	---			1668EPA	1668EPA
28			---	---	---			1668EPA	1668EPA
29			---	---	---			8290cas	8290CAS
30			---	---	---			TCDFCAS	TCDFCAS
31			---	---	---			---	---
32			---	---	---			---	---
33	---	---	---	---	---	---	---	---	---
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37	---	---	---	---	---	---		---	---
38	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---

Reviewed By: JC

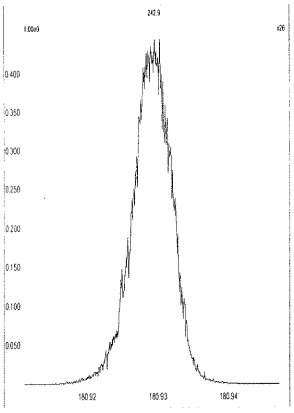
090

Experiment Calibration Report **MassLynx 4.1**

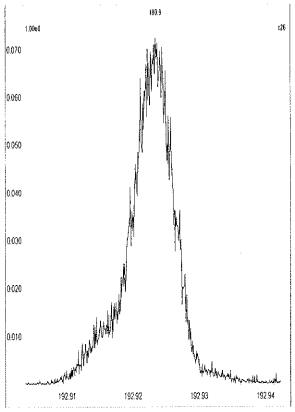
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 21, 2011 09:32:29 Central Standard Time

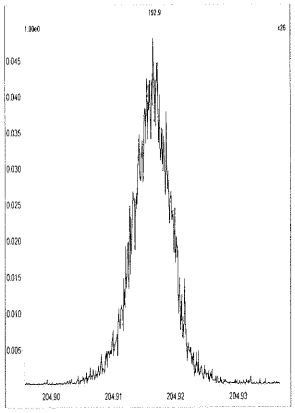
M 180.9888 R 14537



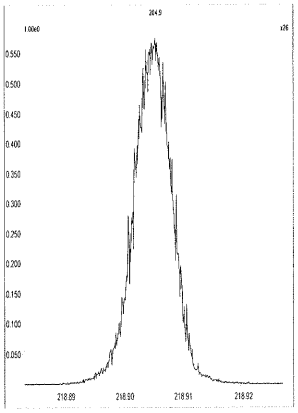
M 192.9888 R 10774



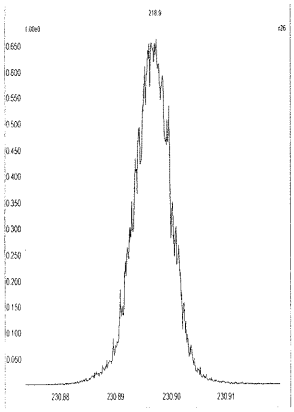
M 204.9888 R 13888



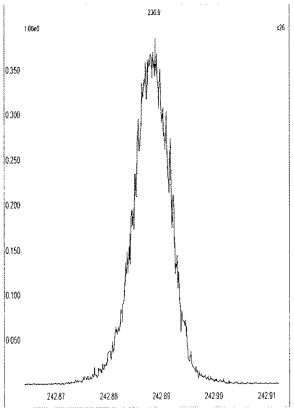
M 218.9856 R 14536



M 230.9856 R 14121



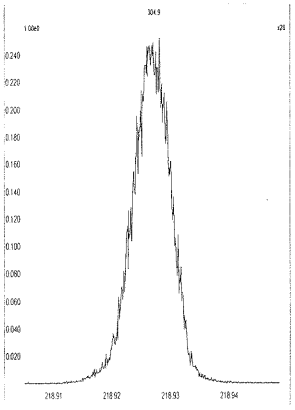
M 242.9856 R 14122



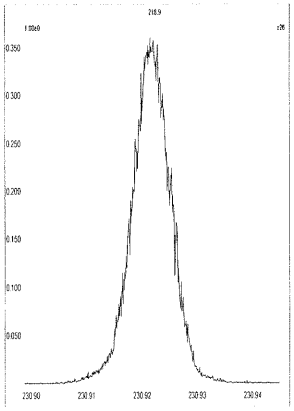
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 21, 2011 09:32:55 Central Standard Time

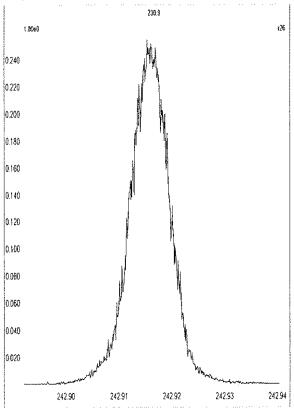
M 218.9856 R 14288



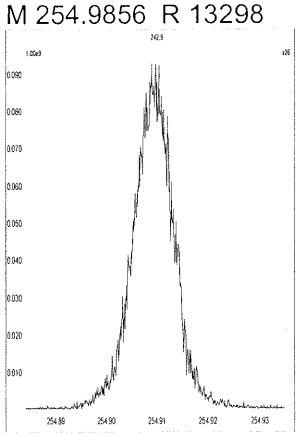
M 230.9856 R 13969



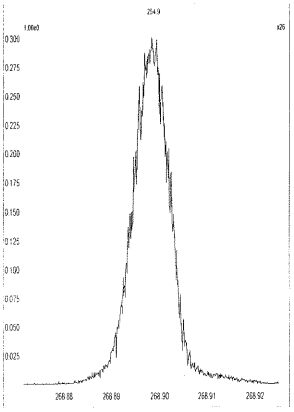
M 242.9856 R 13020



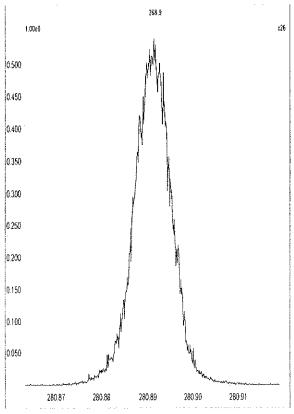
M 254.9856 R 13298



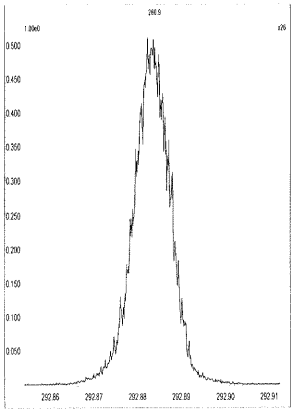
M 268.9824 R 15530



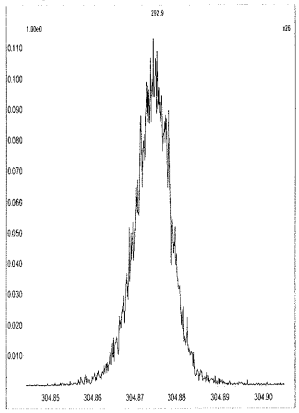
M 280.9824 R 14284



M 292.9824 R 14288



M 304.9824 R 14881



Experiment Calibration Report **MassLynx 4.1**

File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

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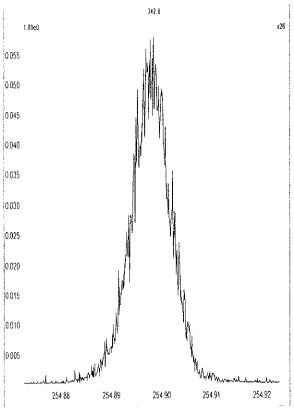
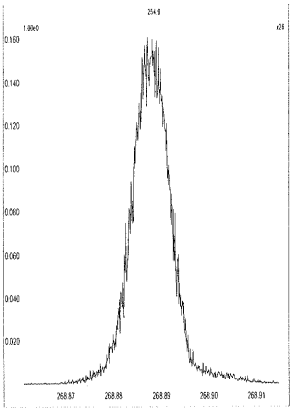
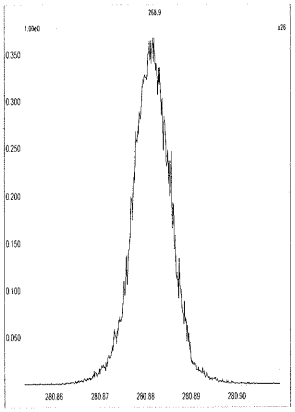
M 254.9856 R 13586



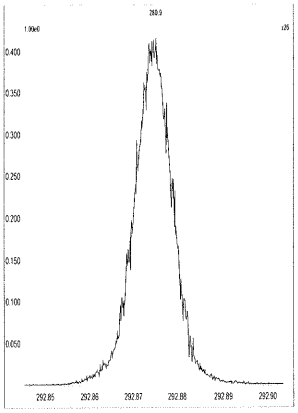
M 268.9824 R 14287



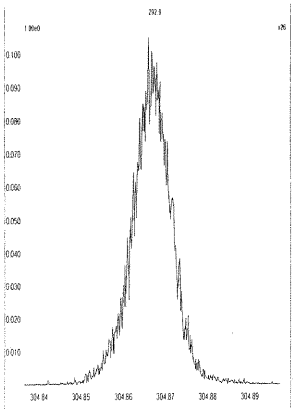
M 280.9824 R 14202



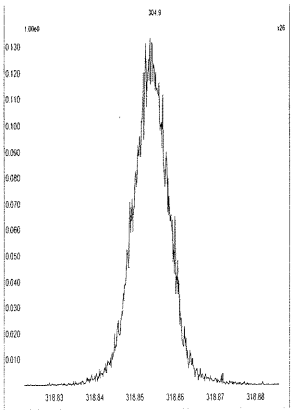
M 292.9824 R 14047



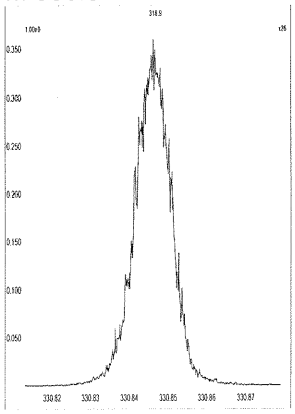
M 304.9824 R 13736



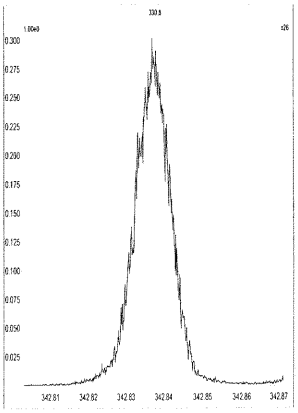
M 318.9792 R 14617



M 330.9792 R 15529



M 342.9792 R 15242



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

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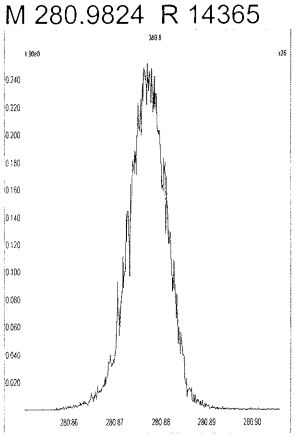
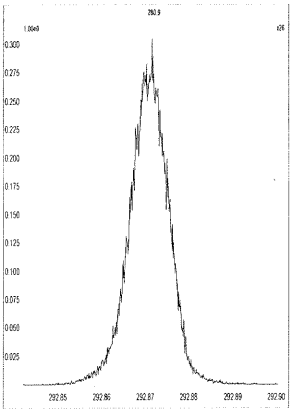
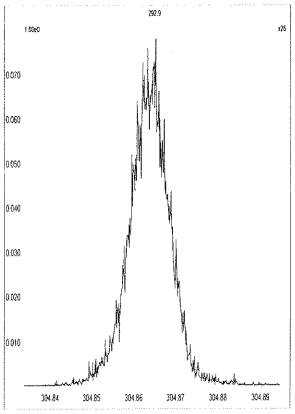
M 280.9824 R 14365



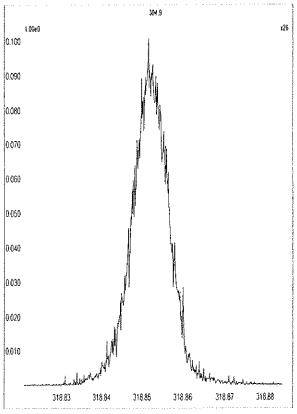
M 292.9824 R 13516



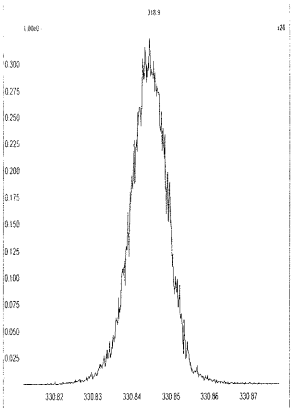
M 304.9824 R 13227



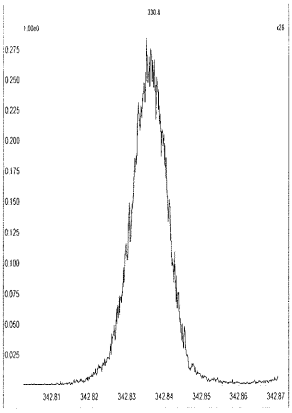
M 318.9792 R 15057



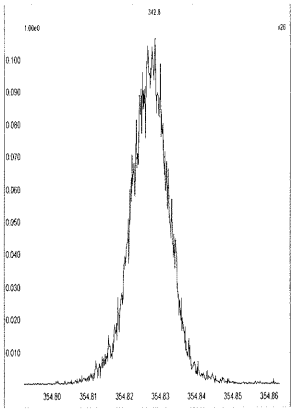
M 330.9792 R 13890



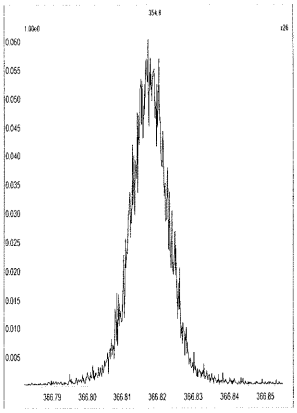
M 342.9792 R 14791



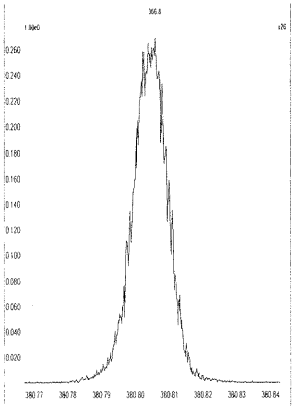
M 354.9792 R 13509



M 366.9792 R 15337



M 380.9760 R 15531



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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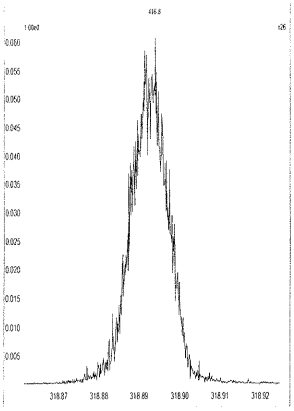
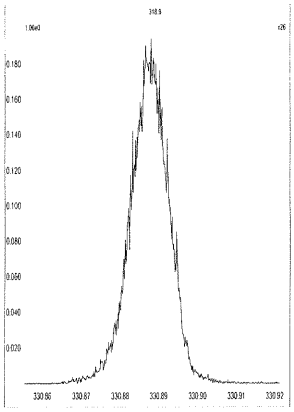
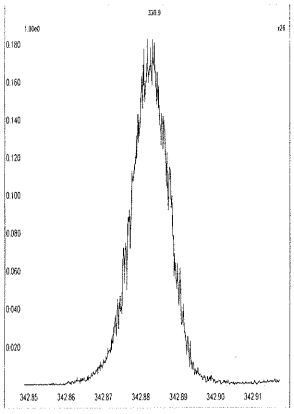
M 318.9792 R 15150



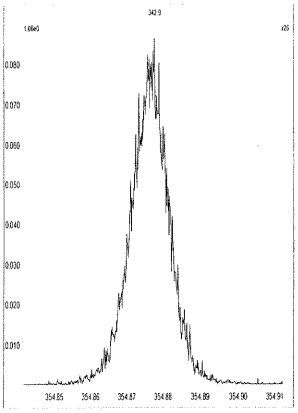
M 330.9792 R 14623



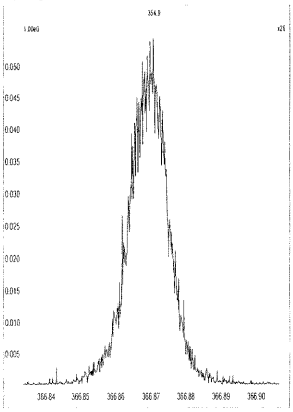
M 342.9792 R 13661



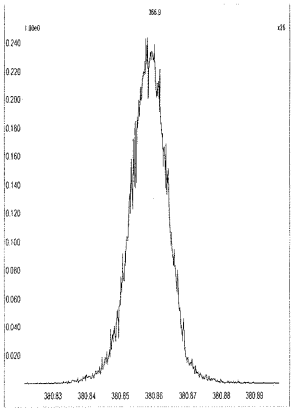
M 354.9792 R 13585



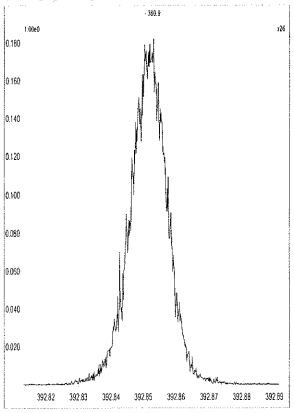
M 366.9792 R 13370



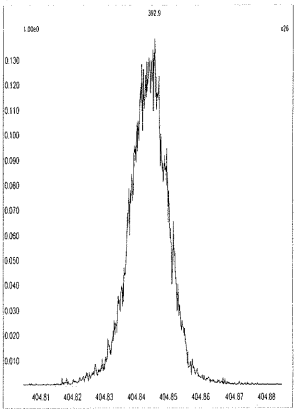
M 380.9760 R 14285



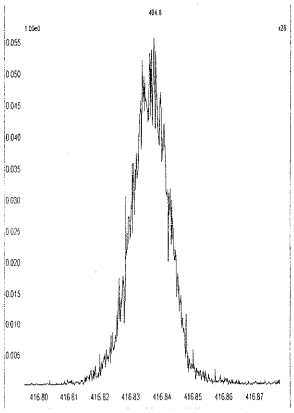
M 392.9760 R 14623



M 404.9760 R 14971



M 416.9760 R 13665



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

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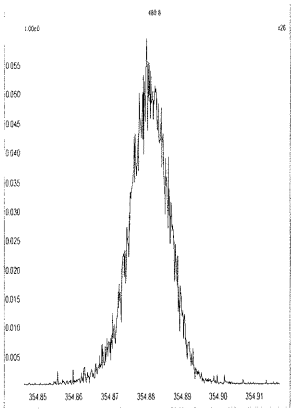
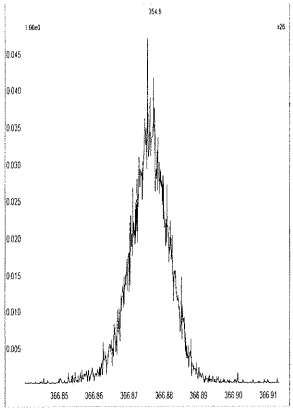
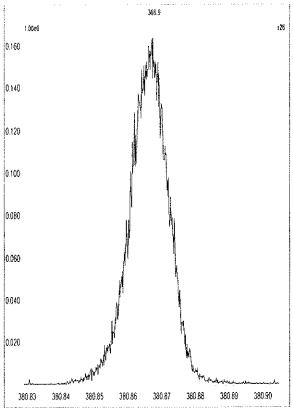
M 354.9792 R 13226



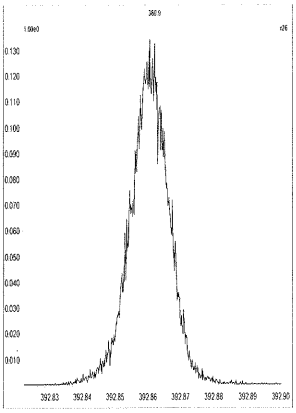
M 366.9792 R 15062



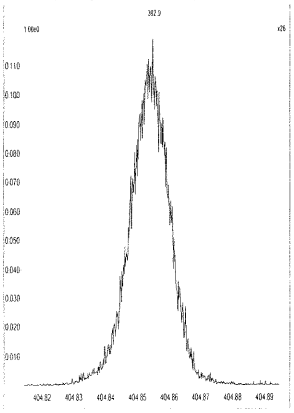
M 380.9760 R 13961



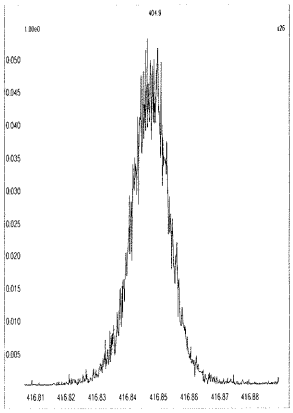
M 392.9760 R 14448



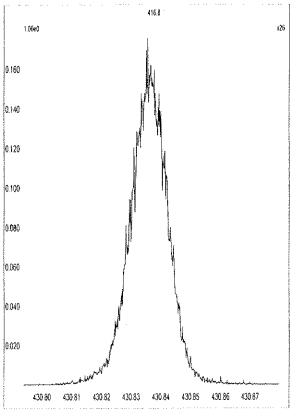
M 404.9760 R 13514



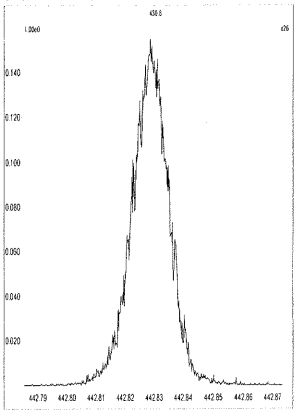
M 416.9760 R 13893



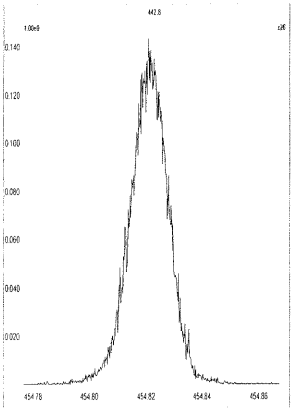
M 430.9728 R 14207



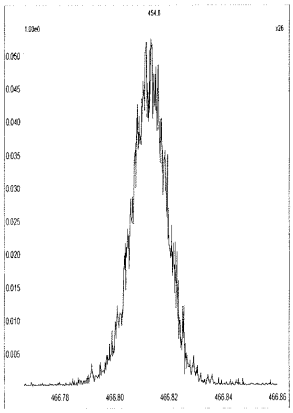
M 442.9728 R 14530



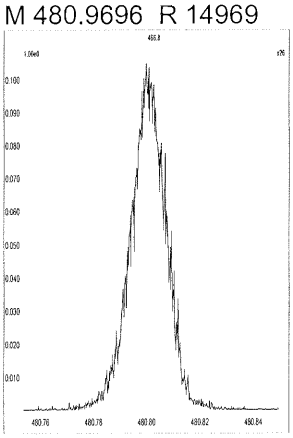
M 454.9728 R 13734



M 466.9728 R 15824



M 480.9696 R 14969



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

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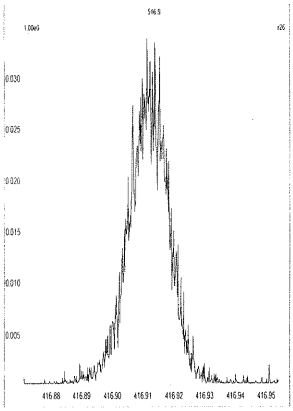
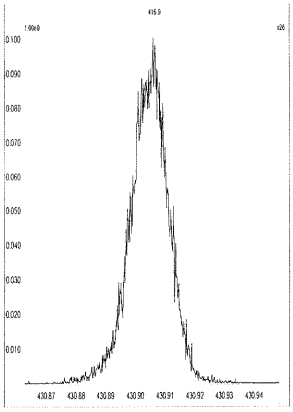
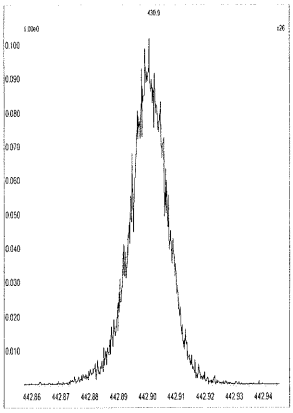
M 416.9760 R 13737



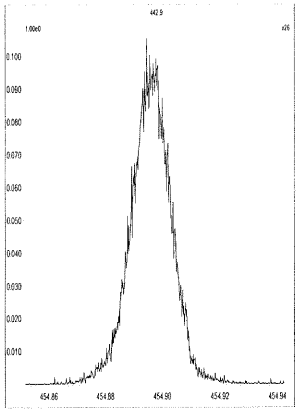
M 430.9728 R 14534



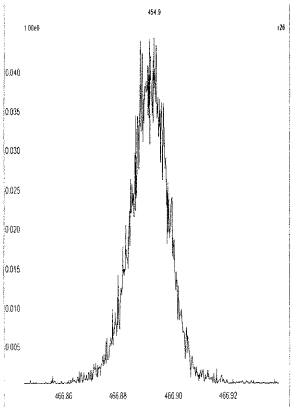
M 442.9728 R 14122



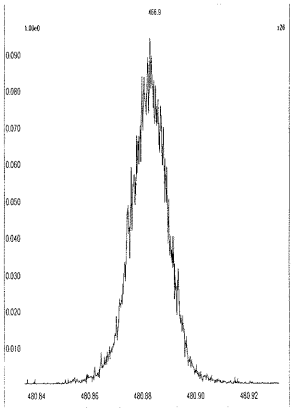
M 454.9728 R 13514



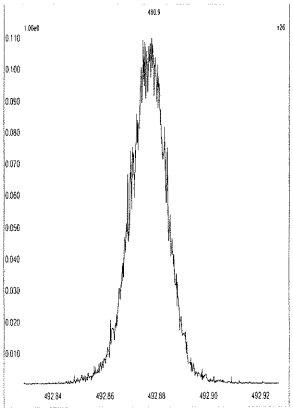
M 466.9728 R 14284



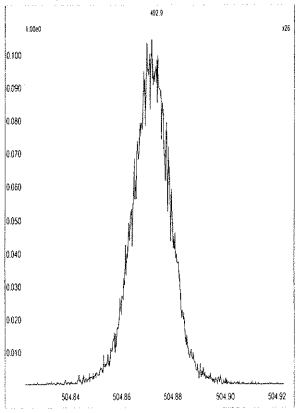
M 480.9696 R 13511



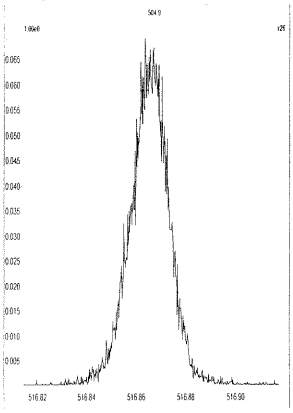
M 492.9696 R 14286



M 504.9696 R 13965



M 516.9697 R 13809



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

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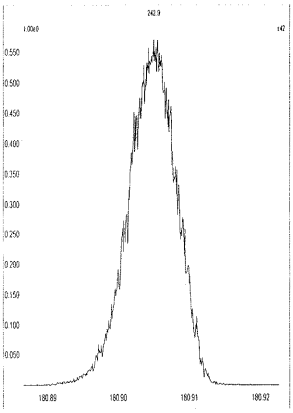
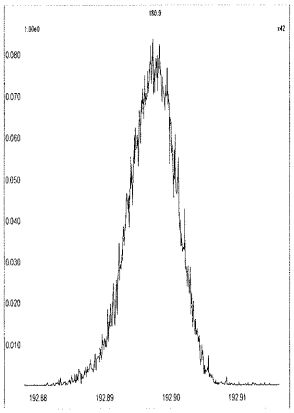
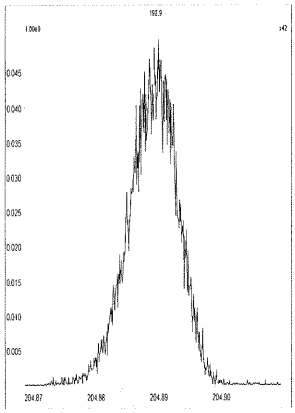
M 180.9888 R 11737



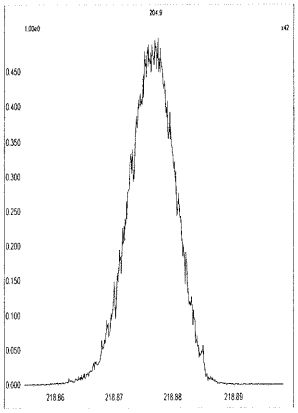
M 192.9888 R 11629



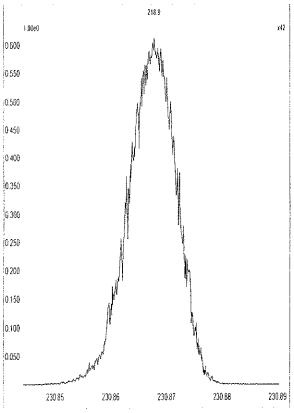
M 204.9888 R 11964



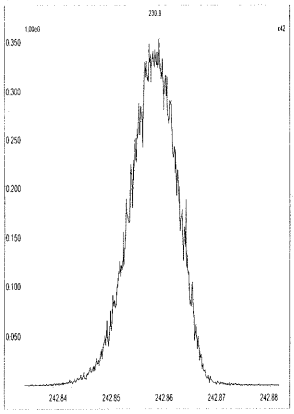
M 218.9856 R 11795



M 230.9856 R 11904



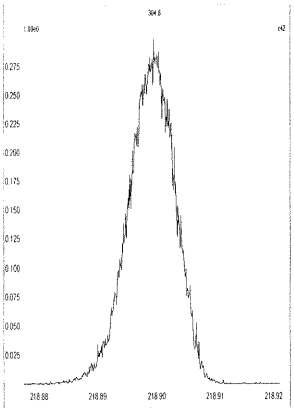
M 242.9856 R 11905



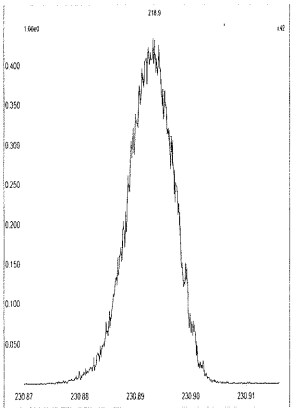
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 21, 2011 14:24:20 Central Standard Time

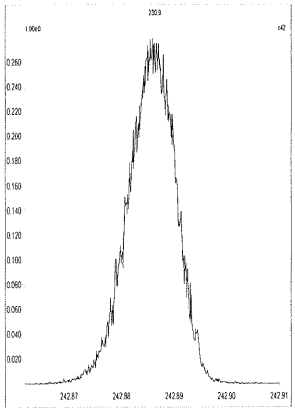
M 218.9856 R 12315



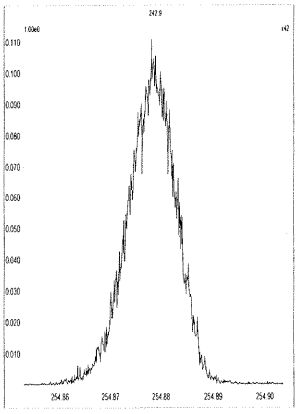
M 230.9856 R 12196



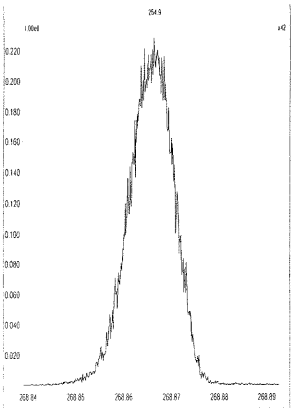
M 242.9856 R 12021



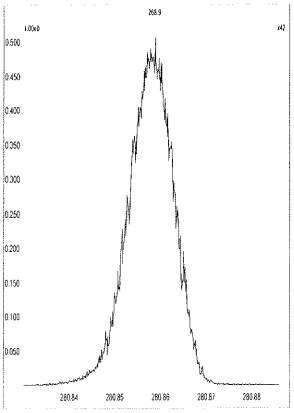
M 254.9856 R 11362



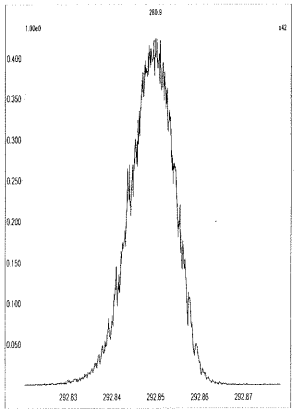
M 268.9824 R 12376



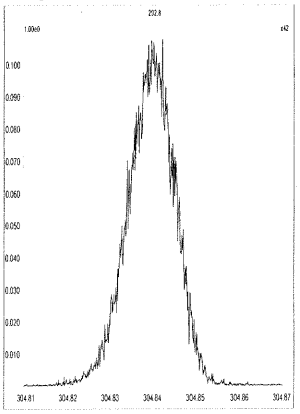
M 280.9824 R 12259



M 292.9824 R 11956



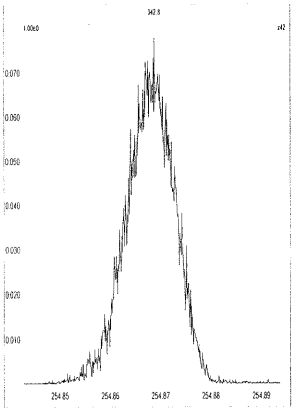
M 304.9824 R 12253



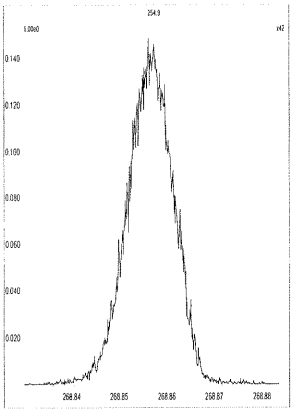
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, November 21, 2011 14:25:44 Central Standard Time

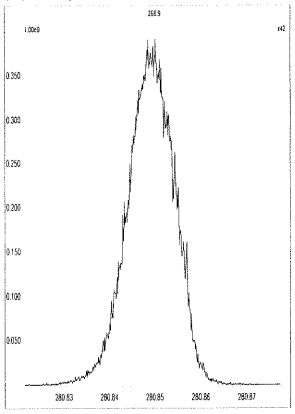
M 254.9856 R 12374



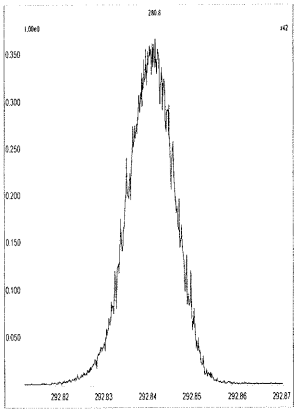
M 268.9824 R 12254



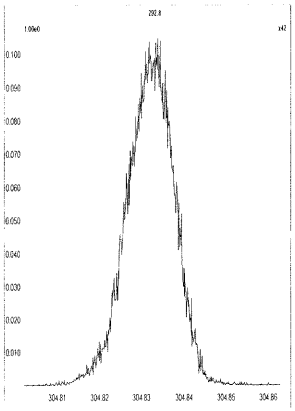
M 280.9824 R 11845



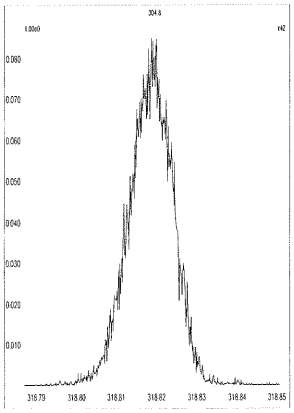
M 292.9824 R 12136



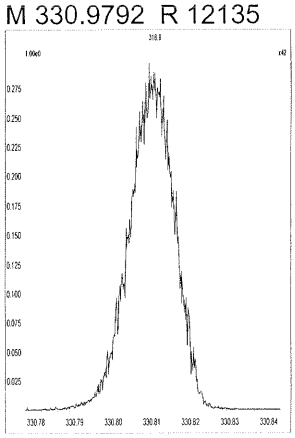
M 304.9824 R 12253



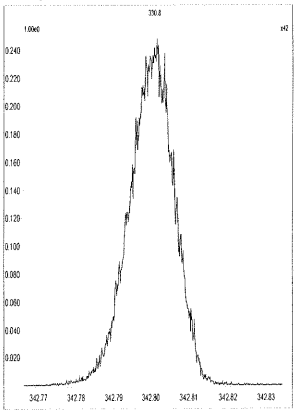
M 318.9792 R 12949



M 330.9792 R 12135



M 342.9792 R 12373

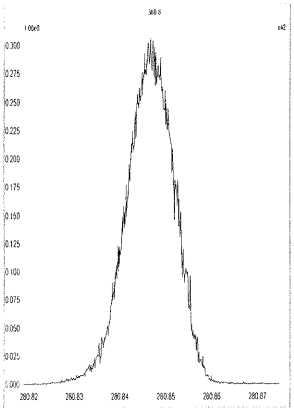


Experiment Calibration Report **MassLynx 4.1**

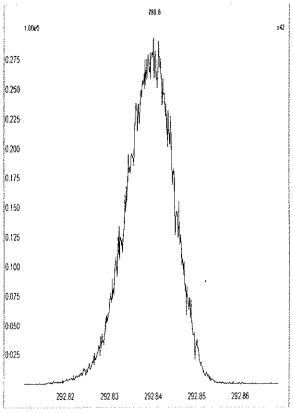
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, November 21, 2011 14:26:37 Central Standard Time

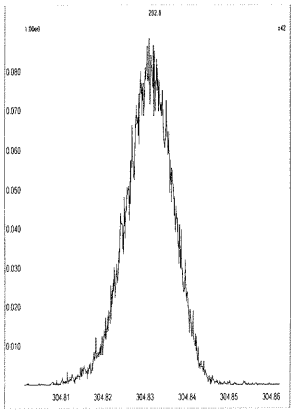
M 280.9824 R 11958



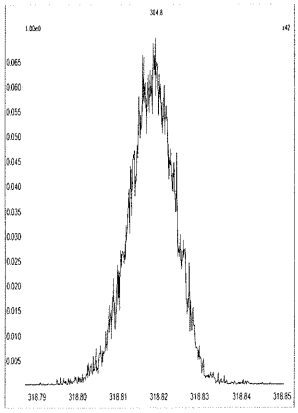
M 292.9824 R 11468



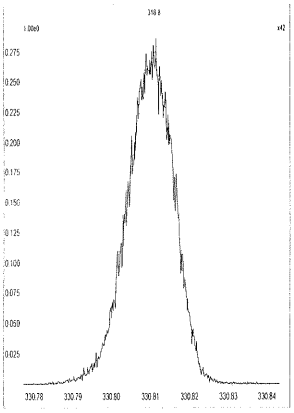
M 304.9824 R 11466



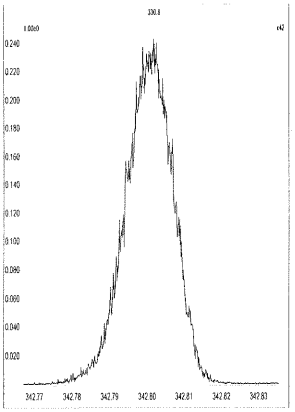
M 318.9792 R 12565



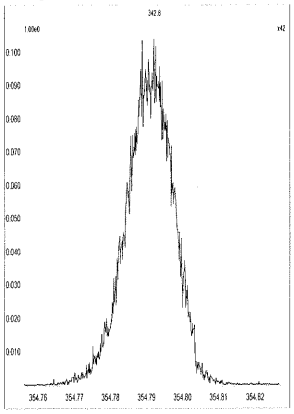
M 330.9792 R 11961



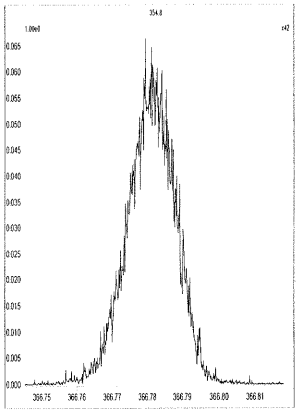
M 342.9792 R 11740



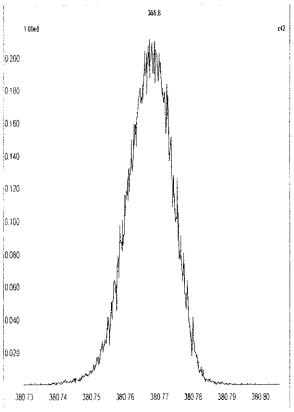
M 354.9792 R 12195



M 366.9792 R 11965



M 380.9760 R 12378



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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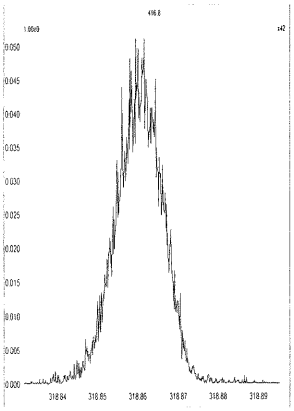
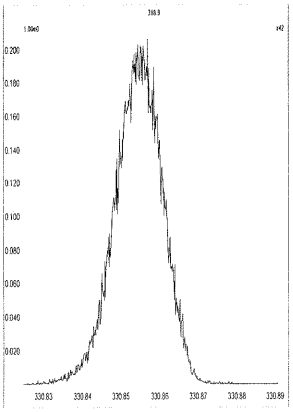
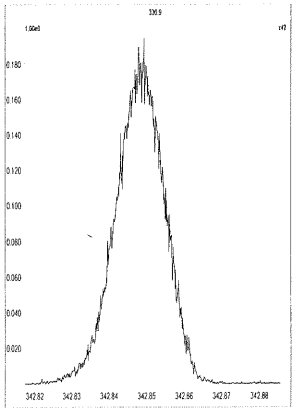
M 318.9792 R 12374



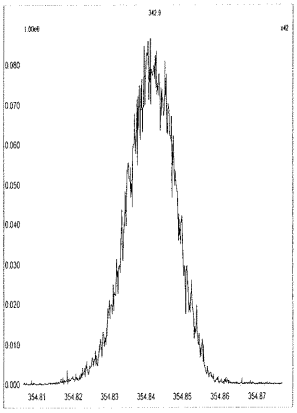
M 330.9792 R 11469



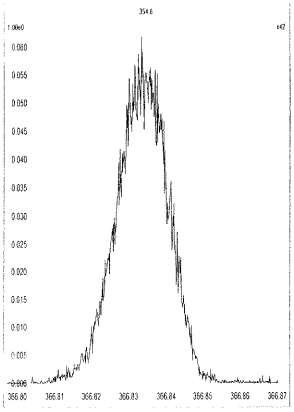
M 342.9792 R 11316



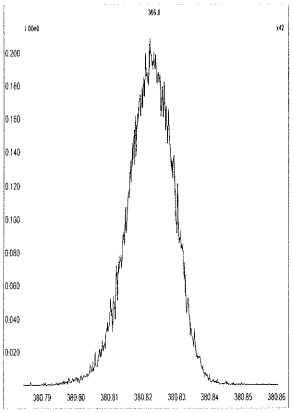
M 354.9792 R 11163



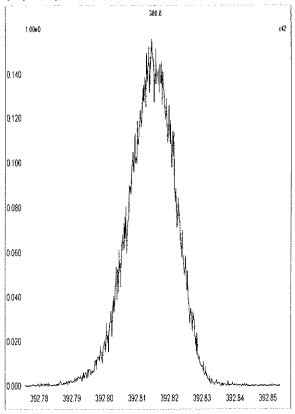
M 366.9792 R 11415



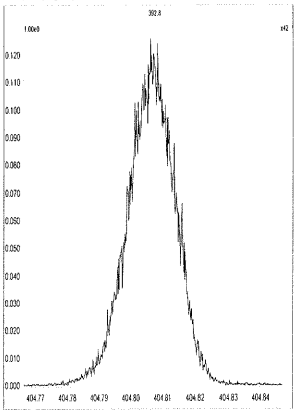
M 380.9760 R 11681



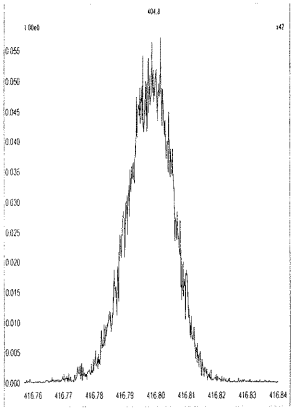
M 392.9760 R 11794



M 404.9760 R 11961



M 416.9760 R 11964



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

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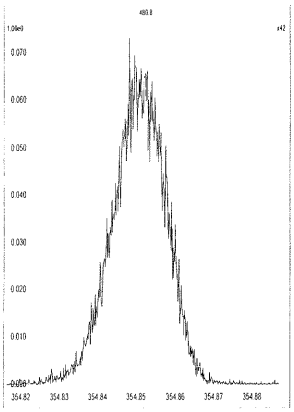
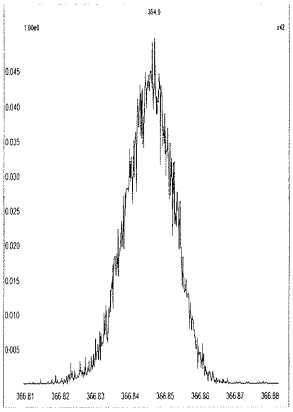
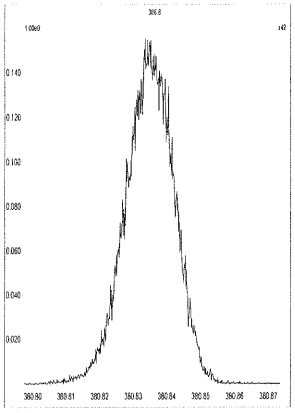
M 354.9792 R 11413



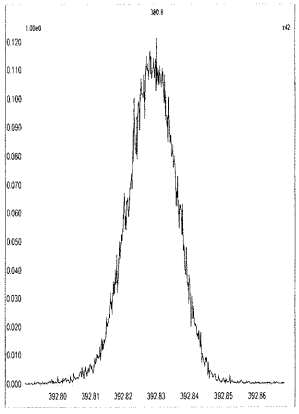
M 366.9792 R 11364



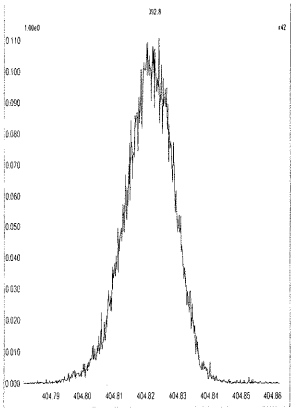
M 380.9760 R 11467



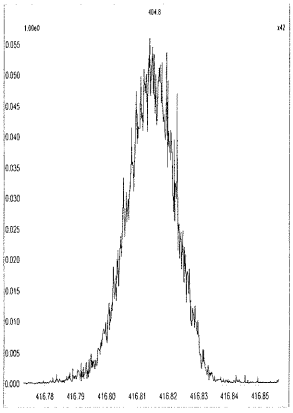
M 392.9760 R 11413



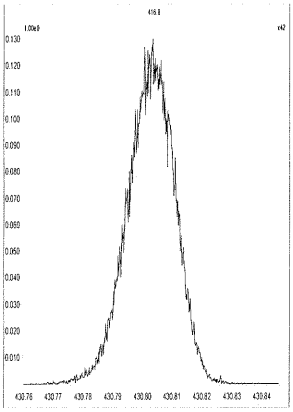
M 404.9760 R 11363



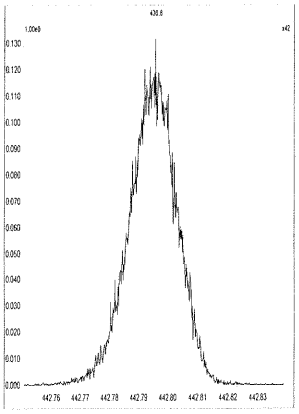
M 416.9760 R 12134



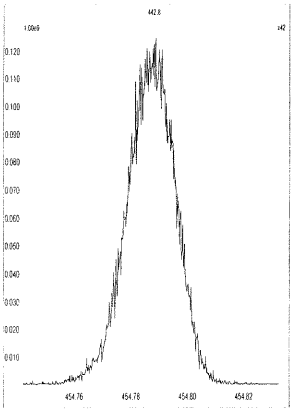
M 430.9728 R 11906



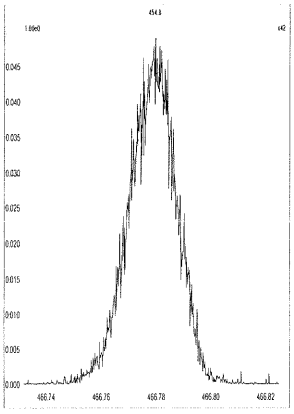
M 442.9728 R 11627



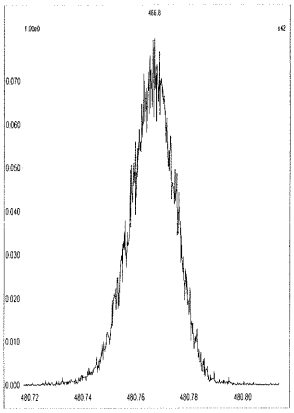
M 454.9728 R 11413



M 466.9728 R 11848



M 480.9696 R 12625



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

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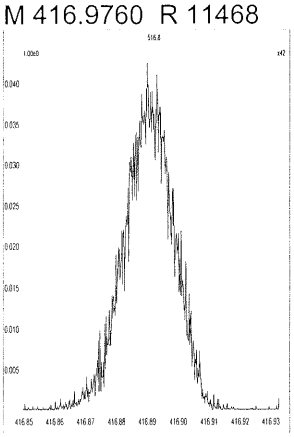
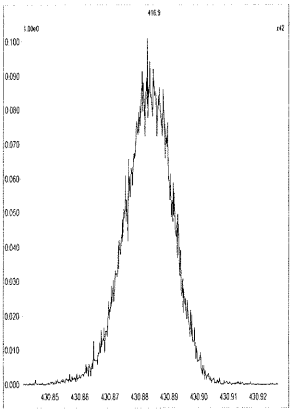
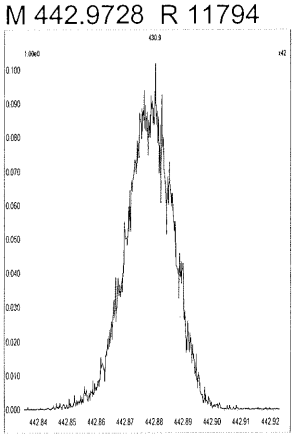
M 416.9760 R 11468



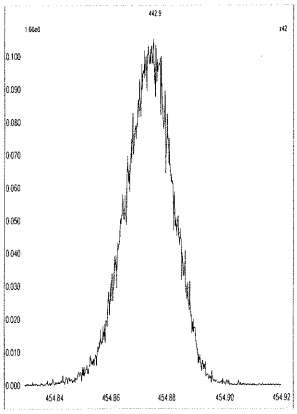
M 430.9728 R 11573



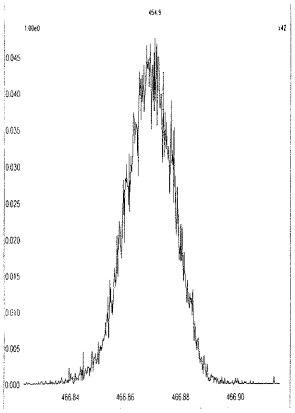
M 442.9728 R 11794



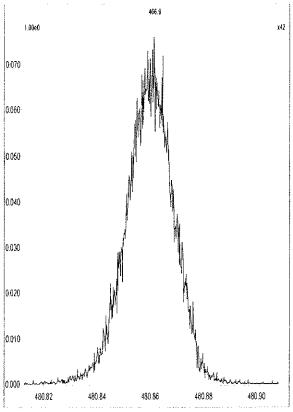
M 454.9728 R 11415



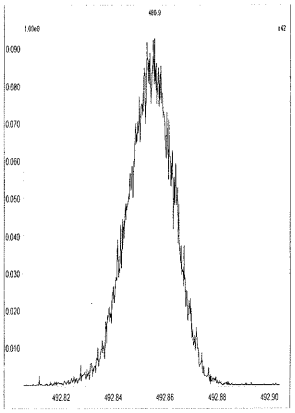
M 466.9728 R 11903



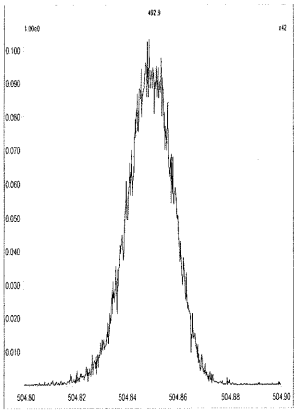
M 480.9696 R 12316



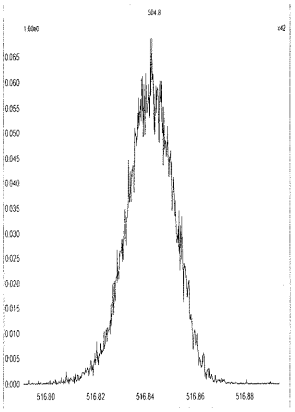
M 492.9696 R 12077



M 504.9696 R 12138



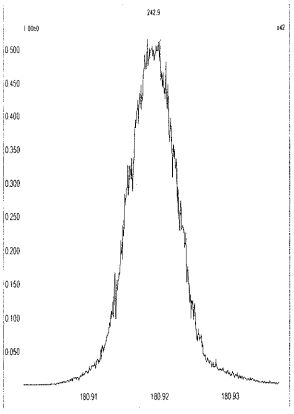
M 516.9697 R 12074



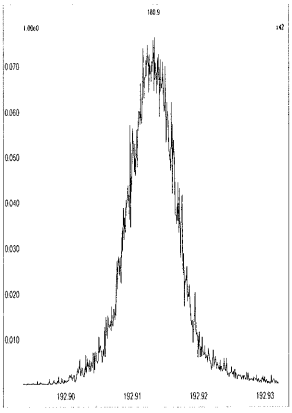
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 21, 2011 18:17:16 Central Standard Time

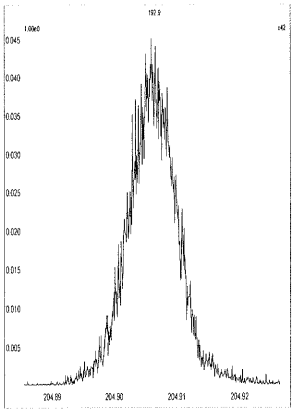
M 180.9888 R 10164



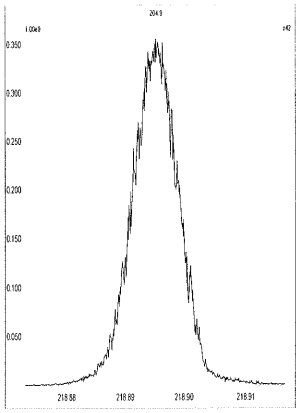
M 192.9888 R 10919



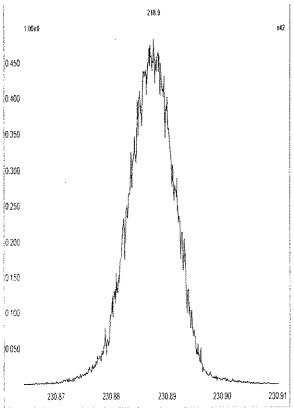
M 204.9888 R 12076



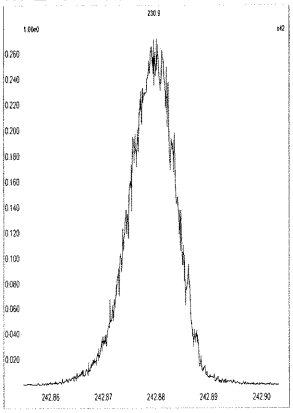
M 218.9856 R 11905



M 230.9856 R 11738



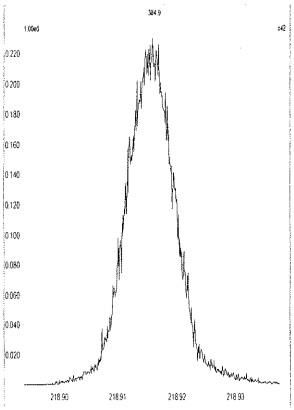
M 242.9856 R 11417



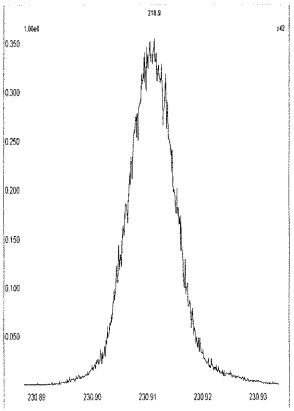
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 21, 2011 18:17:56 Central Standard Time

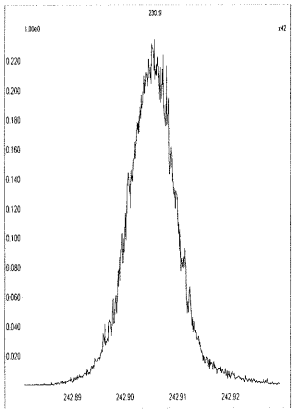
M 218.9856 R 11417



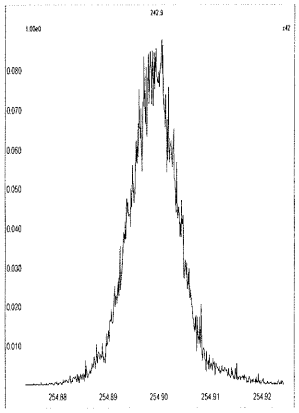
M 230.9856 R 10685



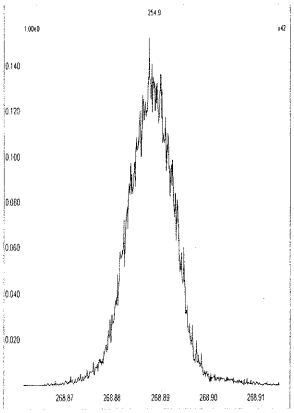
M 242.9856 R 11163



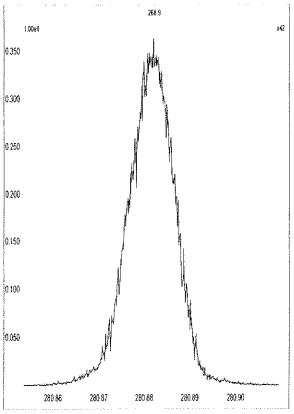
M 254.9856 R 10548



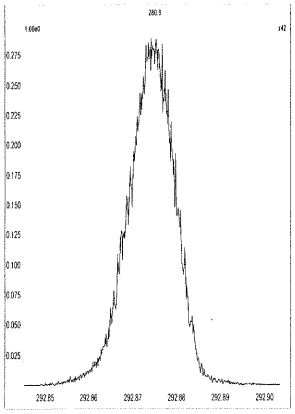
M 268.9824 R 11905



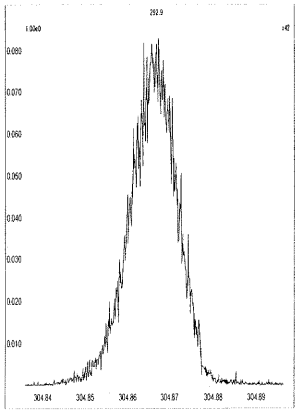
M 280.9824 R 12320



M 292.9824 R 11907



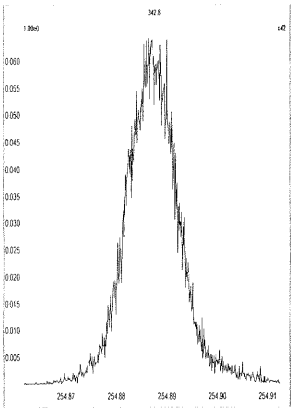
M 304.9824 R 11848



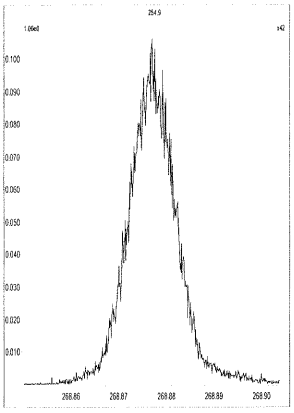
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, November 21, 2011 18:19:08 Central Standard Time

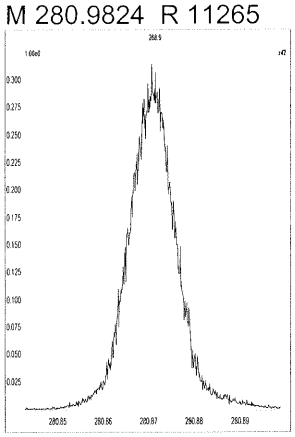
M 254.9856 R 10869



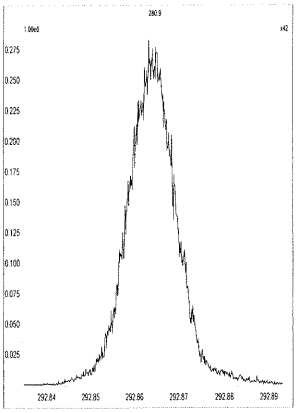
M 268.9824 R 12071



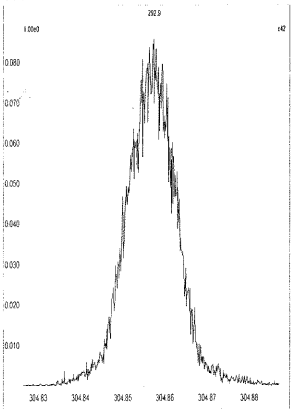
M 280.9824 R 11265



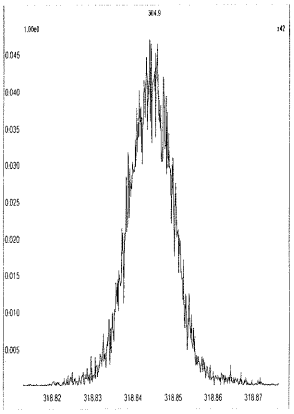
M 292.9824 R 11365



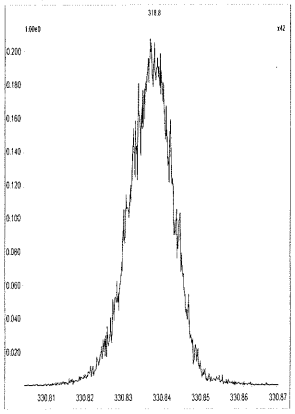
M 304.9824 R 11012



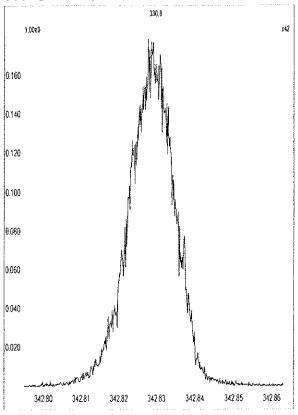
M 318.9792 R 12623



M 330.9792 R 12377



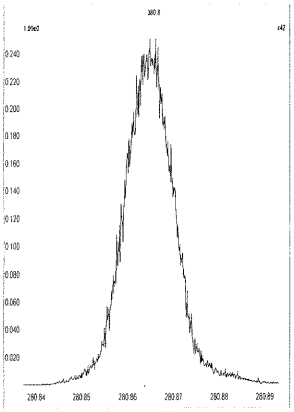
M 342.9792 R 11960



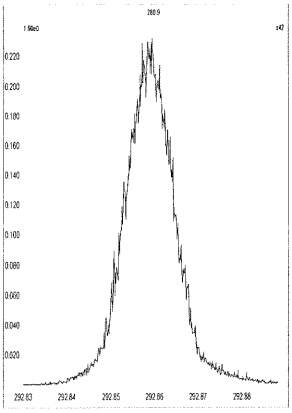
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, November 21, 2011 18:20:01 Central Standard Time

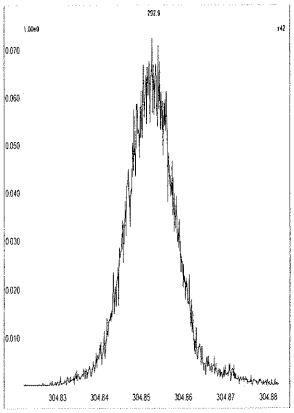
M 280.9824 R 10458



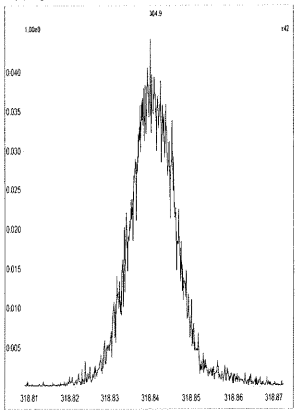
M 292.9824 R 10505



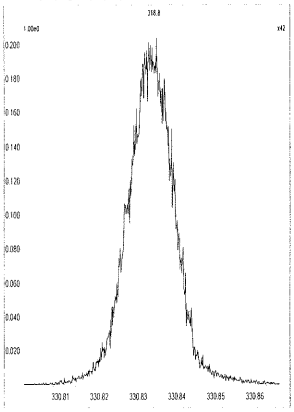
M 304.9824 R 11573



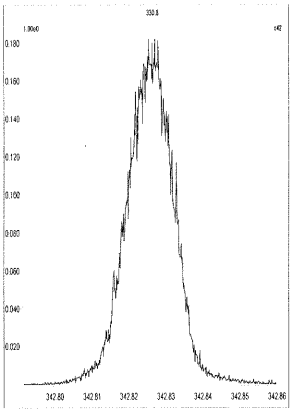
M 318.9792 R 13366



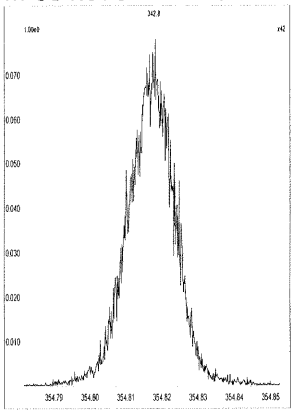
M 330.9792 R 12316



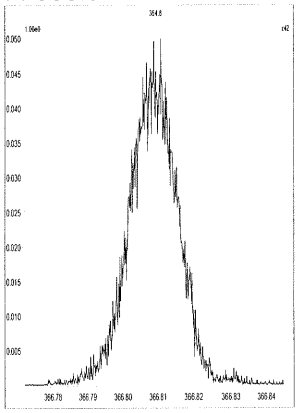
M 342.9792 R 11846



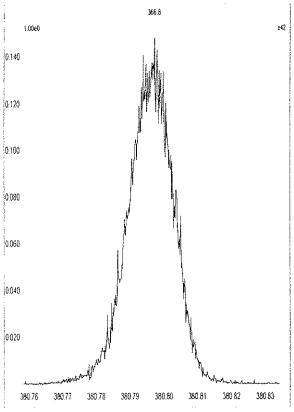
M 354.9792 R 11901



M 366.9792 R 12194



M 380.9760 R 11959



Experiment Calibration Report **MassLynx 4.1**

File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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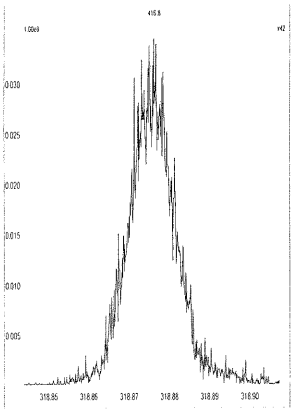
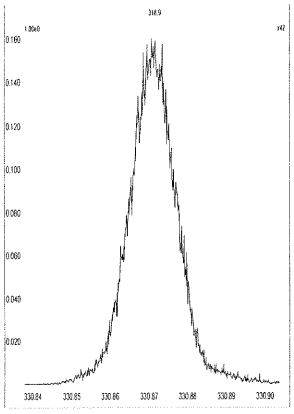
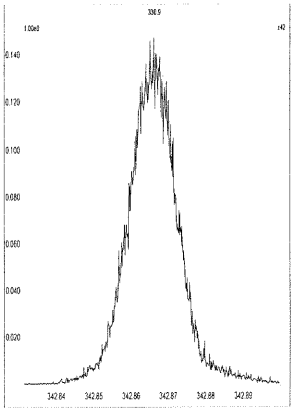
M 318.9792 R 12624



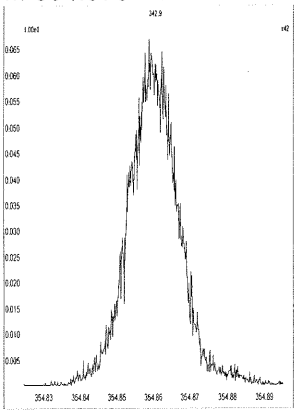
M 330.9792 R 11517



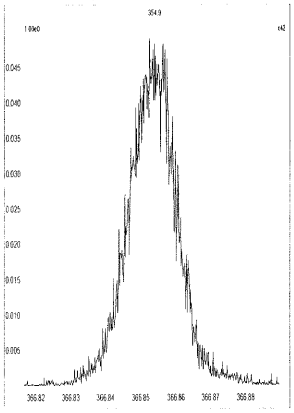
M 342.9792 R 11111



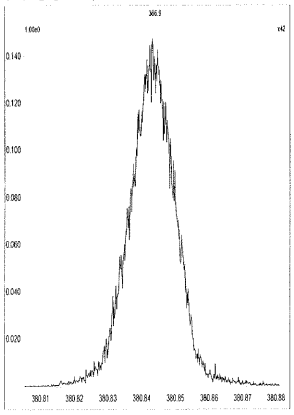
M 354.9792 R 11902



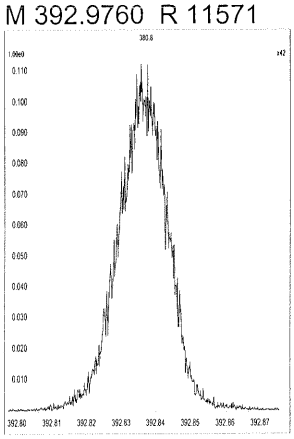
M 366.9792 R 11962



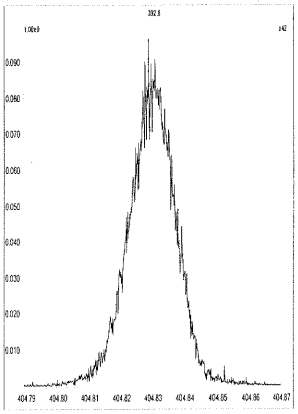
M 380.9760 R 12437



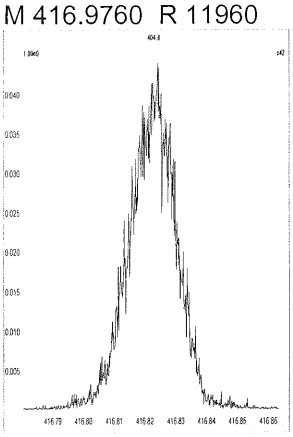
M 392.9760 R 11571



M 404.9760 R 11962



M 416.9760 R 11960



Experiment Calibration Report **MassLynx 4.1**

File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

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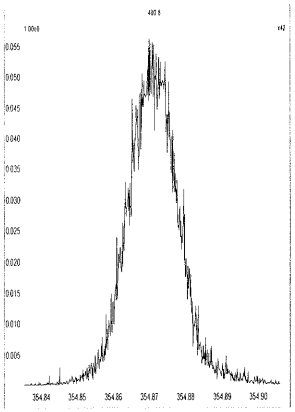
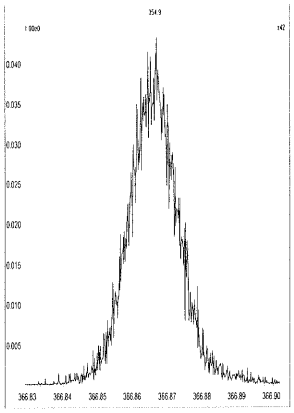
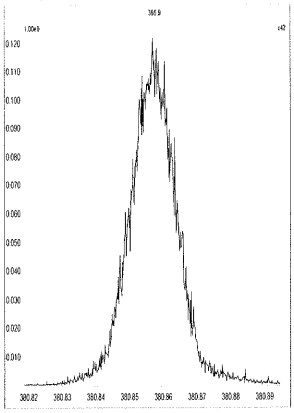
M 354.9792 R 11016



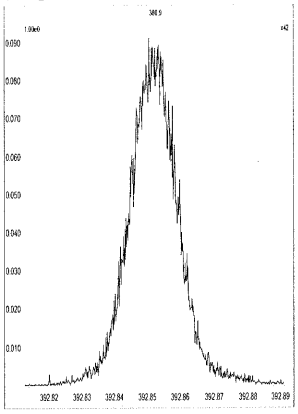
M 366.9792 R 11262



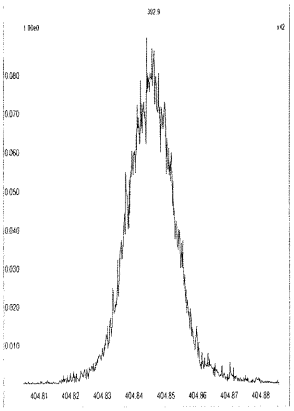
M 380.9760 R 12019



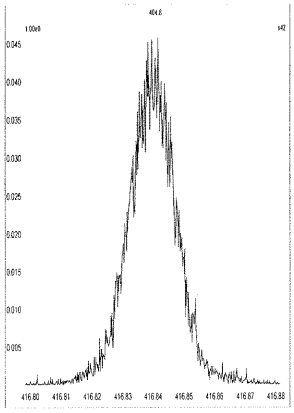
M 392.9760 R 11735



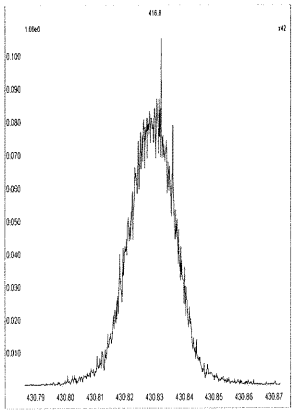
M 404.9760 R 12195



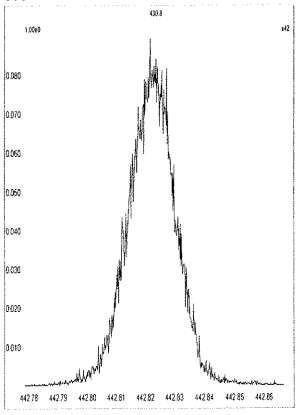
M 416.9760 R 11847



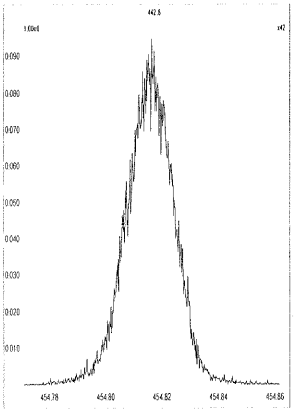
M 430.9728 R 11680



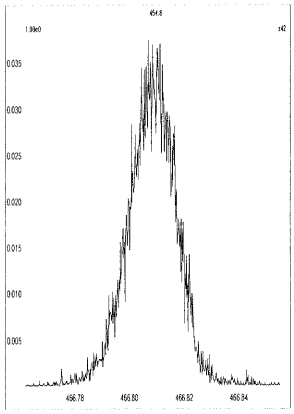
M 442.9728 R 12500



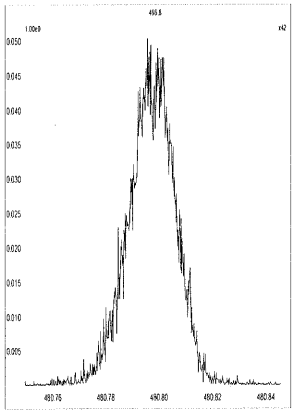
M 454.9728 R 11851



M 466.9728 R 11905



M 480.9696 R 11792



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

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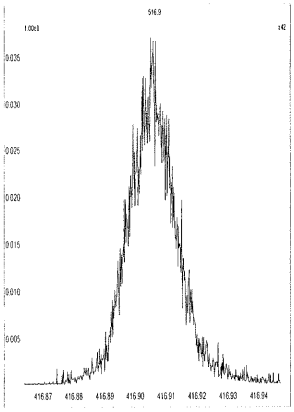
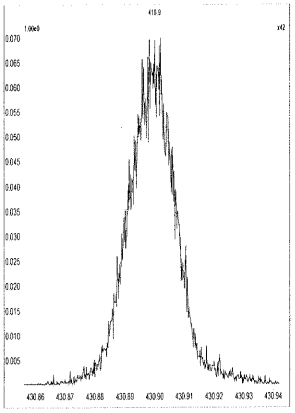
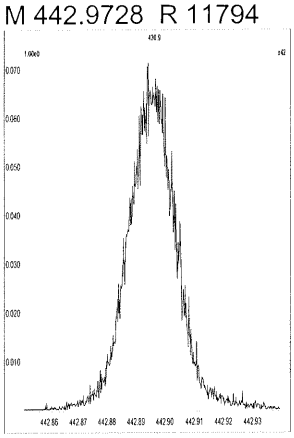
M 416.9760 R 11468



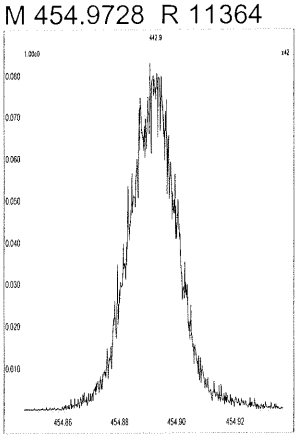
M 430.9728 R 11311



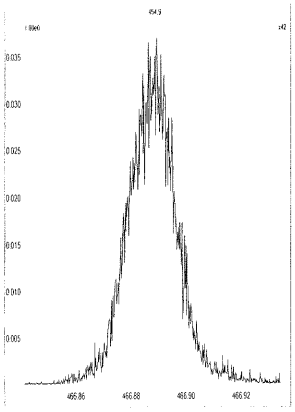
M 442.9728 R 11794



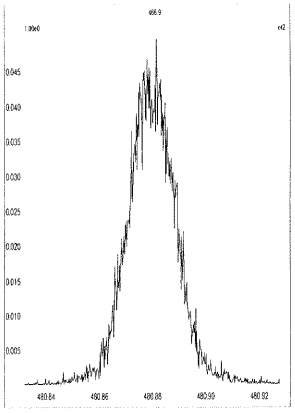
M 454.9728 R 11364



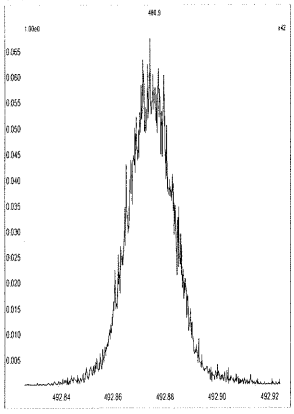
M 466.9728 R 11791



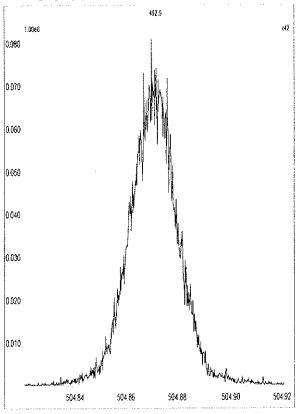
M 480.9696 R 12075



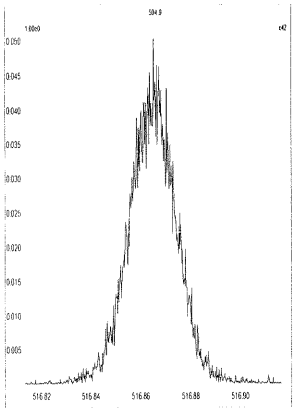
M 492.9696 R 11468



M 504.9696 R 12253



M 516.9697 R 10969



DCCS2091

METHOD 1668
DILUTED COMBINED 209 CONGENER SOLUTION (DCCS-209)

CLIENT ID:

DCCS-209

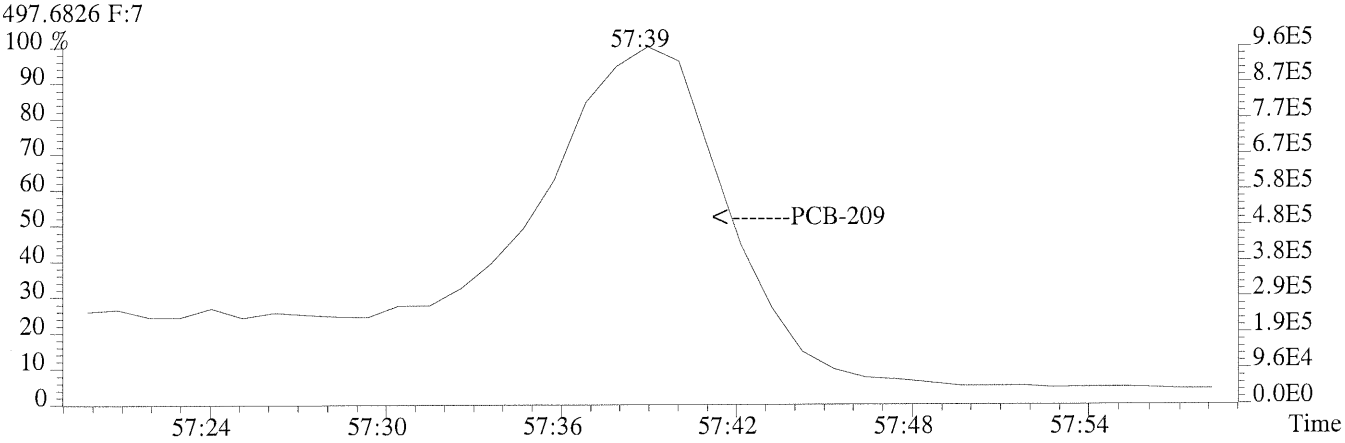
Lab Name: COLUMBIA ANALYTICAL SERVICES
Lab Code: CAS Case No.: _____ SDG No.:
GC Column: SPB-Octyl ID: 0.25 (mm) Lab File ID: U142147
Date Analyzed: 21-NOV-2011
Time Analyzed: 09:35:46

Retention Time for PCB 209:	(>55 min)	57:39
% Valley between PCB 34 and PCB 23:	(<40%)	21
% Valley between PCB 187 and PCB 182:	(<40%)	8.
Seconds of coelution between PCB 156 and PCB 157:	(<2 sec)	0

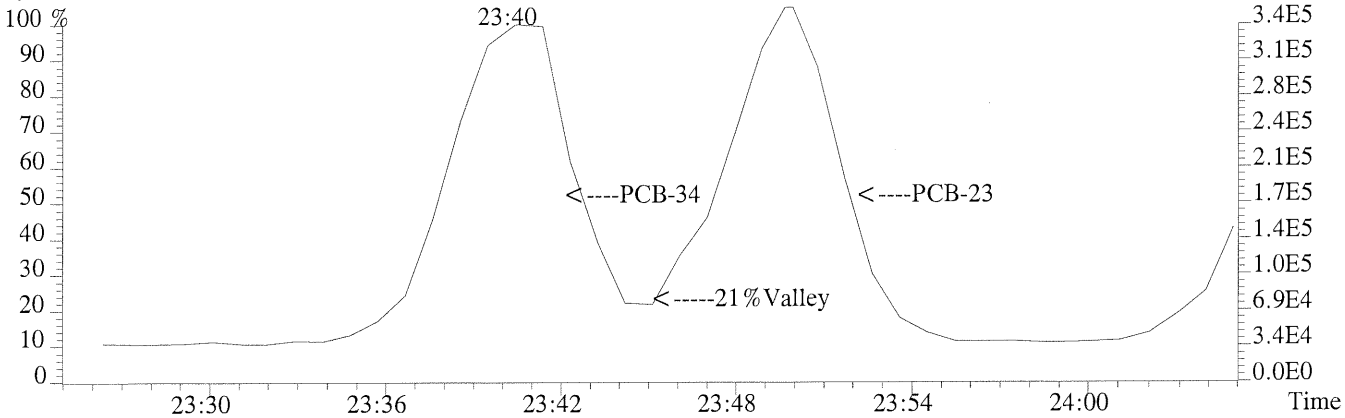
Reference: Section 6.9.1.1 Method 1668

File:U142147 #1-310 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

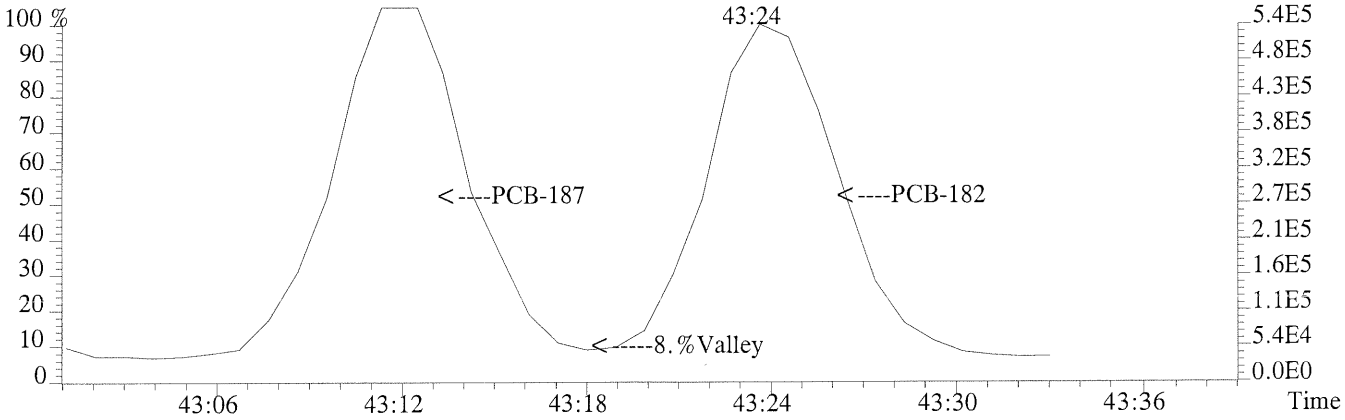
497.6826 F:7



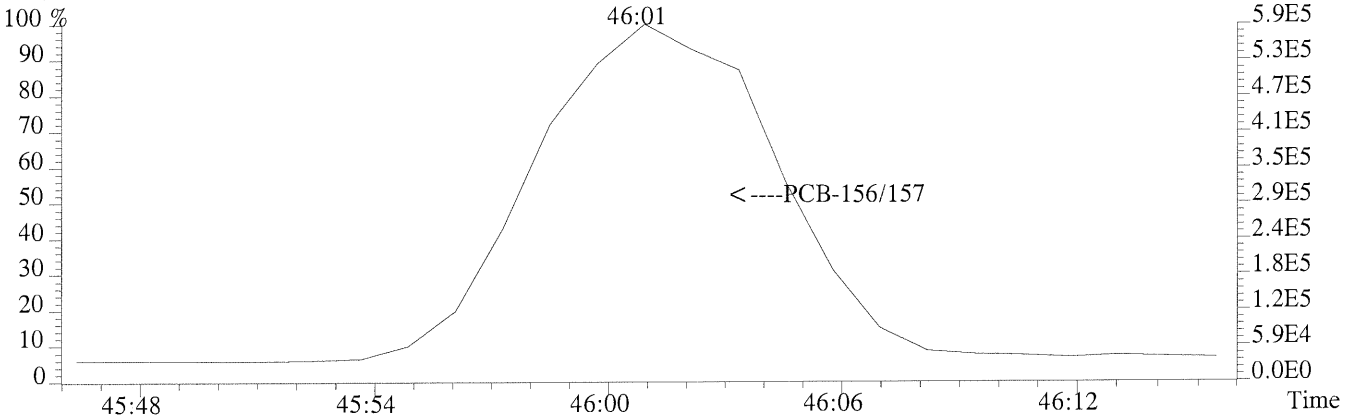
255.9613 F:3



393.8025 F:5



359.8415 F:6



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
PCB 209 INJEC

Run #8 Filename U142147 Samp: 1 Inj: 1 Acquired: 21-NOV-11 09:35:46
Processed: 23-NOV-11 09:10:37 Sample ID: PCB 209 INJECTION

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	n	1.0712
2	1	PCB-2	15:26	2.664e+03	9.153e+02	2.91	y	n	0.9473
3	1	PCB-3	NotFnd	*	*	*	n	n	1.0363
4	1	PCB-4	NotFnd	*	*	*	n	n	1.1136
5	1	PCB-10	16:03	3.619e+03	2.271e+03	1.59	y	n	2.0658
6	2	PCB-9	17:55	1.830e+03	1.218e+03	1.50	y	n	1.0691
7	2	PCB-7	18:04	1.771e+03	1.204e+03	1.47	y	n	1.0432
8	2	PCB-6	18:20	1.806e+03	1.276e+03	1.41	y	n	1.0809
9	2	PCB-5	18:38	1.604e+03	1.044e+03	1.54	y	n	0.9286
10	2	PCB-8	18:46	1.848e+03	1.350e+03	1.37	y	n	1.1215
11	2	PCB-14	20:26	1.811e+03	1.239e+03	1.46	y	n	1.0699
12	2	PCB-11	21:17	1.720e+03	1.134e+03	1.52	y	y	1.0009
13	2	PCB-12/13	21:37	3.213e+03	2.138e+03	1.50	y	y	0.9384
14	2	PCB-15	NotFnd	*	*	*	n	n	0.9770
15	2	PCB-19	NotFnd	*	*	*	n	n	1.0009
16	2	PCB-18/30	20:57	3.626e+03	3.699e+03	0.98	y	n	1.4100
17	2	PCB-17	21:24	1.448e+03	1.453e+03	1.00	y	n	1.1171
18	2	PCB-27	21:37	2.192e+03	2.231e+03	0.98	y	n	1.7031
19	2	PCB-24	21:45	1.964e+03	1.982e+03	0.99	y	n	1.5192
20	2	PCB-16	21:52	1.184e+03	1.159e+03	1.02	y	n	0.9019
21	2	PCB-32	22:23	2.334e+03	2.245e+03	1.04	y	n	1.7629
22	3	PCB-34	23:40	1.646e+03	1.667e+03	0.99	y	n	1.2758
23	3	PCB-23	23:50	1.554e+03	1.511e+03	1.03	y	n	1.1799
24	3	PCB-26/29	24:09	3.373e+03	3.256e+03	1.04	y	n	1.2760
25	3	PCB-25	24:23	1.724e+03	1.655e+03	1.04	y	n	1.3007
26	3	PCB-31	24:41	1.727e+03	1.756e+03	0.98	y	y	1.3410
27	3	PCB-20/28	25:00	3.220e+03	3.163e+03	1.02	y	n	1.2288
28	3	PCB-21/33	25:12	3.207e+03	3.204e+03	1.00	y	n	1.2340
29	3	PCB-22	25:38	1.438e+03	1.471e+03	0.98	y	y	1.1196
30	3	PCB-36	27:13	2.008e+03	1.975e+03	1.02	y	y	1.5336
31	3	PCB-39	27:34	1.769e+03	1.815e+03	0.97	y	y	1.3798
32	3	PCB-38	28:10	1.686e+03	1.679e+03	1.00	y	y	1.2955
33	3	PCB-35	28:37	1.655e+03	1.639e+03	1.01	y	y	1.2680
34	3	PCB-37	NotFnd	*	*	*	n	n	1.0888
35	2	PCB-54	NotFnd	*	*	*	n	n	1.0020
36	3	PCB-50/53	24:25	5.174e+03	6.915e+03	0.75	y	n	1.2050
37	3	PCB-45/51	25:09	5.165e+03	6.789e+03	0.76	y	y	1.1914
38	3	PCB-46	25:24	2.133e+03	2.919e+03	0.73	y	n	1.0071
39	3	PCB-52	26:50	2.697e+03	3.700e+03	0.73	y	n	1.2751
40	3	PCB-43/73	26:59	5.459e+03	7.271e+03	0.75	y	y	1.2689
41	3	PCB-49/69	27:17	6.093e+03	8.177e+03	0.75	y	n	1.4224
42	3	PCB-48	27:37	2.573e+03	3.482e+03	0.74	y	n	1.2071
43	3	PCB-44/47/65	27:52	8.356e+03	1.126e+04	0.74	y	n	1.3035
44	3	PCB-59/62/75	28:10	1.031e+04	1.364e+04	0.76	y	n	1.5914
45	3	PCB-42	28:22	2.496e+03	3.299e+03	0.76	y	n	1.1551
46	3	PCB-40/41/71	28:51	7.827e+03	1.045e+04	0.75	y	y	1.2145
47	3	PCB-64	29:05	3.590e+03	4.639e+03	0.77	y	n	1.6404
48	3	PCB-72	29:56	3.565e+03	4.822e+03	0.74	y	n	1.6720
49	3	PCB-68	30:14	3.272e+03	4.738e+03	0.69	y	n	1.5967
50	3	PCB-57	30:38	3.315e+03	4.604e+03	0.72	y	n	1.5785

51	3	PCB-58	30:53	3.028e+03	4.283e+03	0.71	y	n	1.4574
52	3	PCB-67	31:04	3.165e+03	4.484e+03	0.71	y	n	1.5249
53	3	PCB-63	31:20	3.307e+03	4.640e+03	0.71	y	n	1.5842
54	3	PCB-61/70/74/76	31:39	1.273e+04	1.732e+04	0.73	y	y	1.4977
55	3	PCB-66	31:59	3.296e+03	4.436e+03	0.74	y	n	1.5414
56	3	PCB-55	32:08	2.983e+03	4.001e+03	0.75	y	n	1.3924
57	4	PCB-56	32:39	2.277e+03	2.967e+03	0.77	y	n	1.0453
58	4	PCB-60	32:53	2.375e+03	3.003e+03	0.79	y	n	1.0720
59	4	PCB-80	33:18	2.540e+03	3.420e+03	0.74	y	n	1.1881
60	4	PCB-79	34:50	2.544e+03	3.417e+03	0.74	y	n	1.1883
61	4	PCB-78	35:24	2.246e+03	3.063e+03	0.73	y	n	1.0583
62	4	PCB-81	NotFnd	*	*	*	n	n	1.0336
63	4	PCB-77	NotFnd	*	*	*	n	n	0.9953
64	3	PCB-104	NotFnd	*	*	*	n	n	1.0300
65	3	PCB-96	28:09	5.067e+03	3.187e+03	1.59	y	n	1.6708
66	3	PCB-103	30:06	4.207e+03	2.732e+03	1.54	y	n	1.4047
67	3	PCB-94	30:20	3.420e+03	2.161e+03	1.58	y	n	1.1297
68	3	PCB-95	30:46	3.810e+03	2.422e+03	1.57	y	n	1.2616
69	3	PCB-93/100	31:00	7.453e+03	4.710e+03	1.58	y	n	1.2311
70	3	PCB-98/102	31:08	7.170e+03	4.718e+03	1.52	y	y	1.2032
71	3	PCB-88/91	31:38	7.320e+03	4.615e+03	1.59	y	y	1.2080
72	3	PCB-84	31:52	3.148e+03	1.974e+03	1.60	y	y	1.0369
73	3	PCB-89	32:21	3.485e+03	2.247e+03	1.55	y	n	1.1602
74	4	PCB-121	32:46	4.400e+03	2.905e+03	1.51	y	n	1.4787
75	4	PCB-92	33:09	3.322e+03	2.186e+03	1.52	y	n	1.1149
76	4	PCB-90/101/113	33:43	1.100e+04	7.197e+03	1.53	y	n	1.2280
77	4	PCB-83/99	34:19	6.623e+03	4.298e+03	1.54	y	y	1.1054
78	4	PCB-112	34:26	4.281e+03	2.674e+03	1.60	y	n	1.4079
79	4	PCB-86/87/97/109/119/125	34:48	2.270e+04	1.455e+04	1.56	y	y	1.2567
80	4	PCB-117	35:28	3.967e+03	2.547e+03	1.56	y	n	1.3185
81	4	PCB-85/116	35:33	7.665e+03	4.902e+03	1.56	y	n	1.2720
82	4	PCB-110/115	35:47	8.449e+03	5.547e+03	1.52	y	y	1.4167
83	4	PCB-82	36:02	2.865e+03	1.786e+03	1.60	y	n	0.9415
84	4	PCB-111	36:26	4.274e+03	2.743e+03	1.56	y	n	1.4204
85	4	PCB-120	36:54	4.480e+03	2.856e+03	1.57	y	n	1.4851
86	5	PCB-108/124	38:02	5.959e+03	3.759e+03	1.59	y	n	0.9837
87	5	PCB-107	38:17	3.086e+03	1.955e+03	1.58	y	n	1.0203
88	5	PCB-123	NotFnd	*	*	*	n	n	1.0180
89	5	PCB-106	38:31	3.245e+03	2.048e+03	1.58	y	n	1.0715
90	5	PCB-118	NotFnd	*	*	*	n	n	0.9968
91	5	PCB-122	39:04	2.706e+03	1.755e+03	1.54	y	n	0.9032
92	5	PCB-114	NotFnd	*	*	*	n	n	0.9914
93	5	PCB-105	NotFnd	*	*	*	n	n	1.0109
94	5	PCB-127	41:23	2.923e+03	1.781e+03	1.64	y	y	0.9521
95	5	PCB-126	NotFnd	*	*	*	n	n	0.9601
96	4	PCB-155	NotFnd	*	*	*	n	n	0.9884
97	4	PCB-152	33:41	4.562e+03	3.804e+03	1.20	y	n	2.3190
98	4	PCB-150	33:52	4.265e+03	3.625e+03	1.18	y	n	2.1870
99	4	PCB-136	34:13	4.446e+03	3.693e+03	1.20	y	n	2.2564
100	4	PCB-145	34:31	4.104e+03	3.415e+03	1.20	y	n	2.0842
101	4	PCB-148	36:02	3.324e+03	2.805e+03	1.19	y	n	1.6991
102	4	PCB-135/151	36:38	6.363e+03	5.342e+03	1.19	y	n	1.6224
103	4	PCB-154	36:54	3.482e+03	3.060e+03	1.14	y	n	1.8136
104	4	PCB-144	37:12	3.265e+03	2.755e+03	1.19	y	n	1.6689
105	5	PCB-147/149	37:34	5.645e+03	4.650e+03	1.21	y	n	1.4269
106	5	PCB-134	37:46	2.277e+03	1.760e+03	1.29	y	n	1.1193
107	5	PCB-143	37:52	2.926e+03	2.359e+03	1.24	y	n	1.4652

108	5	PCB-139/140	38:10	5.445e+03	4.537e+03	1.20	y	n	1.3836
109	5	PCB-131	38:22	2.524e+03	2.067e+03	1.22	y	n	1.2729
110	5	PCB-142	38:32	2.527e+03	2.027e+03	1.25	y	n	1.2625
111	5	PCB-132	38:49	2.392e+03	1.868e+03	1.28	y	n	1.1810
112	5	PCB-133	39:20	2.640e+03	2.170e+03	1.22	y	n	1.3333
113	5	PCB-165	39:44	3.196e+03	2.597e+03	1.23	y	n	1.6058
114	5	PCB-146	39:59	2.853e+03	2.340e+03	1.22	y	n	1.4396
115	5	PCB-161	40:07	3.502e+03	2.884e+03	1.21	y	n	1.7703
116	5	PCB-153/168	40:37	6.591e+03	5.269e+03	1.25	y	n	1.6439
117	5	PCB-141	40:48	2.493e+03	2.087e+03	1.19	y	n	1.2696
118	5	PCB-130	41:12	2.377e+03	1.923e+03	1.24	y	n	1.1922
119	5	PCB-137	41:25	2.352e+03	1.925e+03	1.22	y	n	1.1855
120	5	PCB-164	41:32	3.343e+03	2.705e+03	1.24	y	n	1.6765
121	5	PCB-129/138/163	41:52	8.060e+03	6.589e+03	1.22	y	n	1.3536
122	5	PCB-160	42:00	3.179e+03	2.531e+03	1.26	y	n	1.5830
123	5	PCB-158	42:14	3.396e+03	2.815e+03	1.21	y	n	1.7218
124	5	PCB-128/166	43:05	5.592e+03	4.490e+03	1.25	y	n	1.3975
125	6	PCB-159	44:06	1.826e+03	1.480e+03	1.23	y	n	0.9165
126	6	PCB-162	44:24	1.794e+03	1.490e+03	1.20	y	n	0.9104
127	6	PCB-167	NotFnd	*	*	*	n	n	1.0081
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.0060
129	6	PCB-169	NotFnd	*	*	*	n	n	0.9915
130	5	PCB-188	NotFnd	*	*	*	n	n	0.9902
131	5	PCB-179	39:35	3.956e+03	3.945e+03	1.00	y	n	1.6238
132	5	PCB-184	40:06	3.916e+03	3.791e+03	1.03	y	n	1.5838
133	5	PCB-176	40:27	3.758e+03	3.774e+03	1.00	y	n	1.5479
134	5	PCB-186	40:54	3.475e+03	3.529e+03	0.98	y	n	1.4395
135	5	PCB-178	42:18	2.709e+03	2.680e+03	1.01	y	n	1.1075
136	5	PCB-175	42:55	2.805e+03	2.823e+03	0.99	y	n	1.1565
137	5	PCB-187	43:12	2.909e+03	2.912e+03	1.00	y	n	1.1963
138	5	PCB-182	43:24	2.335e+03	2.371e+03	0.98	y	n	0.9672
139	6	PCB-183	43:49	1.831e+03	1.796e+03	1.02	y	y	0.7455
140	6	PCB-185	43:55	1.328e+03	1.358e+03	0.98	y	y	0.5520
141	6	PCB-174	44:03	1.551e+03	1.590e+03	0.98	y	y	0.6456
142	6	PCB-177	44:30	1.476e+03	1.550e+03	0.95	y	n	0.6221
143	6	PCB-181	44:53	1.463e+03	1.538e+03	0.95	y	y	0.6169
144	6	PCB-171/173	45:06	2.811e+03	2.874e+03	0.98	y	y	0.5842
145	6	PCB-172	46:45	1.308e+03	1.452e+03	0.90	y	n	0.5671
146	6	PCB-192	47:02	1.661e+03	1.754e+03	0.95	y	n	0.7020
147	6	PCB-180/193	47:22	3.188e+03	3.359e+03	0.95	y	n	0.6728
148	6	PCB-191	47:45	1.763e+03	1.878e+03	0.94	y	n	0.7484
149	6	PCB-170	48:40	1.281e+03	1.346e+03	0.95	y	n	0.5400
150	6	PCB-190	49:11	1.697e+03	1.738e+03	0.98	y	y	0.7061
151	6	PCB-189	NotFnd	*	*	*	n	n	0.8632
152	6	PCB-202	NotFnd	*	*	*	n	n	0.8634
153	6	PCB-201	45:32	3.340e+03	3.793e+03	0.88	y	n	1.3323
154	6	PCB-204	46:13	3.225e+03	3.778e+03	0.85	y	n	1.3082
155	6	PCB-197	46:26	3.192e+03	3.765e+03	0.85	y	n	1.2994
156	6	PCB-200	46:32	2.993e+03	3.478e+03	0.86	y	n	1.2085
157	6	PCB-198/199	49:20	4.328e+03	4.999e+03	0.87	y	n	0.8711
158	6	PCB-196	50:01	2.170e+03	2.542e+03	0.85	y	n	0.8799
159	6	PCB-203	50:13	2.312e+03	2.685e+03	0.86	y	n	0.9333
160	6	PCB-195	51:32	2.008e+03	2.364e+03	0.85	y	n	0.8166
161	6	PCB-194	53:52	1.975e+03	2.414e+03	0.82	y	n	0.8197
162	6	PCB-205	NotFnd	*	*	*	n	n	0.8885
163	6	PCB-208	NotFnd	*	*	*	n	n	0.8804
164	6	PCB-207	52:13	2.521e+03	3.054e+03	0.83	y	n	1.3698

165	7	PCB-206	NotFnd	*	*	*	n	n	0.9310
166	7	PCB-209	NotFnd	*	*	*	n	n	0.8938
167	1	PCB-1L	13:20	1.127e+04	4.098e+03	2.75	y	y	1.2197
168	1	PCB-3L	15:37	1.119e+04	3.666e+03	3.05	y	y	1.1732
169	1	PCB-4L	15:51	7.093e+03	4.617e+03	1.54	y	n	0.8031
170	2	PCB-15L	21:54	6.736e+03	4.363e+03	1.54	y	n	0.9620
171	2	PCB-19L	19:03	5.332e+03	5.114e+03	1.04	y	n	0.6361
172	3	PCB-37L	29:01	5.216e+03	5.118e+03	1.02	y	n	1.1440
173	2	PCB-54L	22:11	5.454e+03	6.818e+03	0.80	y	n	1.1399
174	4	PCB-81L	35:48	3.914e+03	4.942e+03	0.79	y	n	0.9468
175	4	PCB-77L	36:22	3.929e+03	5.041e+03	0.78	y	n	0.9489
176	3	PCB-104L	27:46	8.814e+03	5.476e+03	1.61	y	n	1.3966
177	5	PCB-123L	38:22	5.006e+03	3.313e+03	1.51	y	n	1.0295
178	5	PCB-118L	38:42	5.128e+03	3.400e+03	1.51	y	n	1.0766
179	5	PCB-114L	39:14	5.091e+03	3.292e+03	1.55	y	n	1.0747
180	5	PCB-105L	39:52	4.954e+03	3.136e+03	1.58	y	n	1.0133
181	5	PCB-126L	42:58	4.172e+03	2.686e+03	1.55	y	n	0.8978
182	4	PCB-155L	33:28	8.393e+03	6.600e+03	1.27	y	n	1.6371
183	6	PCB-167L	44:51	3.171e+03	2.472e+03	1.28	y	n	0.8820
184	6	PCB-156/157L	46:00	6.018e+03	4.681e+03	1.29	y	n	0.8178
185	6	PCB-169L	49:15	2.612e+03	2.126e+03	1.23	y	n	0.7164
186	5	PCB-188L	39:13	7.014e+03	6.579e+03	1.07	y	n	2.3576
187	6	PCB-189L	51:45	3.050e+03	2.820e+03	1.08	y	n	1.3072
188	6	PCB-202L	44:35	4.115e+03	4.683e+03	0.88	y	n	1.8043
189	6	PCB-205L	54:19	2.587e+03	2.892e+03	0.89	y	n	1.3631
190	6	PCB-208L	51:15	2.900e+03	3.776e+03	0.77	y	n	1.3370
191	7	PCB-206L	56:03	1.847e+03	2.330e+03	0.79	y	n	0.9978
192	7	PCB-209L	57:38	3.018e+03	2.514e+03	1.20	y	n	1.5625
193	3	PCB-28L	NotFnd	*	*	*	n	n	1.3869
194	4	PCB-111L	NotFnd	*	*	*	n	n	1.2384
195	5	PCB-178L	NotFnd	*	*	*	n	n	0.9527
196	2	PCB-9L	NotFnd	*	*	*	n	n	-
197	3	PCB-52L	NotFnd	*	*	*	n	n	-
198	4	PCB-101L	NotFnd	*	*	*	n	n	-
199	5	PCB-138L	NotFnd	*	*	*	n	n	-
200	6	PCB-194L	NotFnd	*	*	*	n	n	-

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Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
PCB 209 INJECTION

Run #8 Filename U142147#1 Samp: 1 Inj: 1 Acquired: 21-NOV-11 09:35:46

Processed: 23-NOV-11 09:10:37 LAB. ID: PCB 209 INJECTION

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	2.46e+03	*	*	2.45e+03	*
2	PCB-2	5.83e+05	2.46e+03	2.4e+02	1.96e+05	2.45e+03	8.0e+01
3	PCB-3	*	2.46e+03	*	*	2.45e+03	*
4	PCB-4	*	1.34e+03	*	*	5.22e+03	*
5	PCB-10	8.35e+05	1.34e+03	6.2e+02	5.14e+05	5.22e+03	9.8e+01
6	PCB-9	4.12e+05	1.20e+03	3.4e+02	2.74e+05	6.17e+03	4.4e+01
7	PCB-7	3.85e+05	1.20e+03	3.2e+02	2.60e+05	6.17e+03	4.2e+01
8	PCB-6	3.93e+05	1.20e+03	3.3e+02	2.68e+05	6.17e+03	4.3e+01
9	PCB-5	3.46e+05	1.20e+03	2.9e+02	2.43e+05	6.17e+03	3.9e+01
10	PCB-8	3.99e+05	1.20e+03	3.3e+02	2.72e+05	6.17e+03	4.4e+01
11	PCB-14	3.75e+05	1.20e+03	3.1e+02	2.49e+05	6.17e+03	4.0e+01
12	PCB-11	3.29e+05	1.20e+03	2.7e+02	2.13e+05	6.17e+03	3.5e+01
13	PCB-12/13	4.91e+05	1.20e+03	4.1e+02	3.17e+05	6.17e+03	5.1e+01
14	PCB-15	*	1.20e+03	*	*	6.17e+03	*
15	PCB-19	*	1.61e+03	*	*	1.71e+03	*
16	PCB-18/30	6.83e+05	1.61e+03	4.2e+02	6.97e+05	1.71e+03	4.1e+02
17	PCB-17	3.04e+05	1.61e+03	1.9e+02	3.06e+05	1.71e+03	1.8e+02
18	PCB-27	4.58e+05	1.61e+03	2.8e+02	4.68e+05	1.71e+03	2.7e+02
19	PCB-24	4.09e+05	1.61e+03	2.5e+02	4.09e+05	1.71e+03	2.4e+02
20	PCB-16	2.56e+05	1.61e+03	1.6e+02	2.50e+05	1.71e+03	1.5e+02
21	PCB-32	4.93e+05	1.61e+03	3.1e+02	4.49e+05	1.71e+03	2.6e+02
22	PCB-34	3.00e+05	8.80e+03	3.4e+01	2.98e+05	1.23e+04	2.4e+01
23	PCB-23	2.94e+05	8.80e+03	3.3e+01	2.87e+05	1.23e+04	2.3e+01
24	PCB-26/29	5.24e+05	8.80e+03	6.0e+01	5.24e+05	1.23e+04	4.3e+01
25	PCB-25	3.05e+05	8.80e+03	3.5e+01	2.96e+05	1.23e+04	2.4e+01
26	PCB-31	3.28e+05	8.80e+03	3.7e+01	3.23e+05	1.23e+04	2.6e+01
27	PCB-20/28	5.20e+05	8.80e+03	5.9e+01	5.11e+05	1.23e+04	4.2e+01
28	PCB-21/33	3.64e+05	8.80e+03	4.1e+01	3.66e+05	1.23e+04	3.0e+01
29	PCB-22	2.76e+05	8.80e+03	3.1e+01	2.79e+05	1.23e+04	2.3e+01
30	PCB-36	3.29e+05	8.80e+03	3.7e+01	3.14e+05	1.23e+04	2.6e+01
31	PCB-39	3.07e+05	8.80e+03	3.5e+01	3.09e+05	1.23e+04	2.5e+01
32	PCB-38	3.05e+05	8.80e+03	3.5e+01	2.83e+05	1.23e+04	2.3e+01
33	PCB-35	2.87e+05	8.80e+03	3.3e+01	2.74e+05	1.23e+04	2.2e+01
34	PCB-37	*	8.80e+03	*	*	1.23e+04	*
35	PCB-54	*	8.72e+02	*	*	1.23e+03	*
36	PCB-50/53	8.33e+05	9.84e+02	8.5e+02	1.12e+06	8.32e+02	1.4e+03
37	PCB-45/51	5.12e+05	9.84e+02	5.2e+02	6.76e+05	8.32e+02	8.1e+02
38	PCB-46	3.99e+05	9.84e+02	4.1e+02	5.57e+05	8.32e+02	6.7e+02
39	PCB-52	5.27e+05	9.84e+02	5.4e+02	7.07e+05	8.32e+02	8.5e+02
40	PCB-43/73	6.53e+05	9.84e+02	6.6e+02	8.22e+05	8.32e+02	9.9e+02
41	PCB-49/69	8.17e+05	9.84e+02	8.3e+02	1.11e+06	8.32e+02	1.3e+03
42	PCB-48	4.85e+05	9.84e+02	4.9e+02	6.48e+05	8.32e+02	7.8e+02
43	PCB-44/47/65	1.29e+06	9.84e+02	1.3e+03	1.73e+06	8.32e+02	2.1e+03
44	PCB-59/62/75	1.35e+06	9.84e+02	1.4e+03	1.84e+06	8.32e+02	2.2e+03
45	PCB-42	4.64e+05	9.84e+02	4.7e+02	6.28e+05	8.32e+02	7.5e+02
46	PCB-40/41/71	9.79e+05	9.84e+02	9.9e+02	1.31e+06	8.32e+02	1.6e+03
47	PCB-64	6.82e+05	9.84e+02	6.9e+02	8.86e+05	8.32e+02	1.1e+03

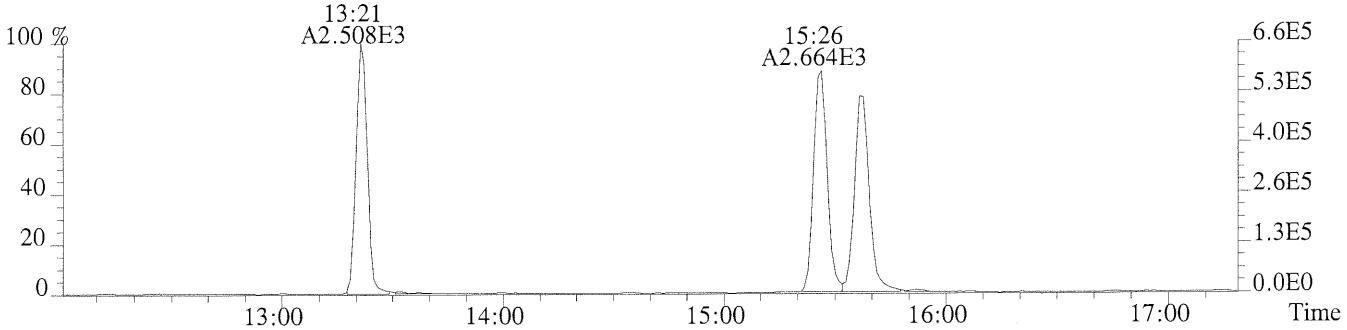
48	PCB-72	7.06e+05	9.84e+02	7.2e+02	9.17e+05	8.32e+02	1.1e+03
49	PCB-68	6.13e+05	9.84e+02	6.2e+02	8.60e+05	8.32e+02	1.0e+03
50	PCB-57	6.47e+05	9.84e+02	6.6e+02	8.71e+05	8.32e+02	1.0e+03
51	PCB-58	5.78e+05	9.84e+02	5.9e+02	7.92e+05	8.32e+02	9.5e+02
52	PCB-67	5.70e+05	9.84e+02	5.8e+02	8.20e+05	8.32e+02	9.9e+02
53	PCB-63	6.41e+05	9.84e+02	6.5e+02	8.68e+05	8.32e+02	1.0e+03
54	PCB-61/70/74/76	1.28e+06	9.84e+02	1.3e+03	1.68e+06	8.32e+02	2.0e+03
55	PCB-66	6.13e+05	9.84e+02	6.2e+02	8.34e+05	8.32e+02	1.0e+03
56	PCB-55	5.65e+05	9.84e+02	5.7e+02	7.31e+05	8.32e+02	8.8e+02
57	PCB-56	4.32e+05	3.75e+03	1.2e+02	5.58e+05	9.39e+03	5.9e+01
58	PCB-60	4.32e+05	3.75e+03	1.2e+02	5.53e+05	9.39e+03	5.9e+01
59	PCB-80	4.69e+05	3.75e+03	1.3e+02	6.22e+05	9.39e+03	6.6e+01
60	PCB-79	4.48e+05	3.75e+03	1.2e+02	5.98e+05	9.39e+03	6.4e+01
61	PCB-78	4.01e+05	3.75e+03	1.1e+02	5.43e+05	9.39e+03	5.8e+01
62	PCB-81	*	3.75e+03	*	*	9.39e+03	*
63	PCB-77	*	3.75e+03	*	*	9.39e+03	*
64	PCB-104	*	8.04e+02	*	*	1.02e+03	*
65	PCB-96	9.48e+05	8.04e+02	1.2e+03	6.06e+05	1.02e+03	5.9e+02
66	PCB-103	8.08e+05	8.04e+02	1.0e+03	5.25e+05	1.02e+03	5.1e+02
67	PCB-94	6.57e+05	8.04e+02	8.2e+02	4.10e+05	1.02e+03	4.0e+02
68	PCB-95	7.10e+05	8.04e+02	8.8e+02	4.41e+05	1.02e+03	4.3e+02
69	PCB-93/100	1.32e+06	8.04e+02	1.6e+03	8.16e+05	1.02e+03	8.0e+02
70	PCB-98/102	8.13e+05	8.04e+02	1.0e+03	5.24e+05	1.02e+03	5.1e+02
71	PCB-88/91	7.12e+05	8.04e+02	8.9e+02	4.58e+05	1.02e+03	4.5e+02
72	PCB-84	5.99e+05	8.04e+02	7.4e+02	3.62e+05	1.02e+03	3.5e+02
73	PCB-89	6.62e+05	8.04e+02	8.2e+02	4.30e+05	1.02e+03	4.2e+02
74	PCB-121	8.20e+05	3.85e+03	2.1e+02	5.42e+05	1.77e+03	3.1e+02
75	PCB-92	6.22e+05	3.85e+03	1.6e+02	4.08e+05	1.77e+03	2.3e+02
76	PCB-90/101/113	1.43e+06	3.85e+03	3.7e+02	9.28e+05	1.77e+03	5.2e+02
77	PCB-83/99	6.96e+05	3.85e+03	1.8e+02	4.59e+05	1.77e+03	2.6e+02
78	PCB-112	7.96e+05	3.85e+03	2.1e+02	4.99e+05	1.77e+03	2.8e+02
79	CB-86/87/97/109/119/125	2.41e+06	3.85e+03	6.3e+02	1.53e+06	1.77e+03	8.7e+02
80	PCB-117	8.58e+05	3.85e+03	2.2e+02	5.44e+05	1.77e+03	3.1e+02
81	PCB-85/116	1.35e+06	3.85e+03	3.5e+02	8.73e+05	1.77e+03	4.9e+02
82	PCB-110/115	8.45e+05	3.85e+03	2.2e+02	5.59e+05	1.77e+03	3.2e+02
83	PCB-82	5.00e+05	3.85e+03	1.3e+02	3.21e+05	1.77e+03	1.8e+02
84	PCB-111	7.96e+05	3.85e+03	2.1e+02	5.05e+05	1.77e+03	2.9e+02
85	PCB-120	8.21e+05	3.85e+03	2.1e+02	5.35e+05	1.77e+03	3.0e+02
86	PCB-108/124	1.03e+06	2.32e+03	4.4e+02	6.68e+05	1.07e+04	6.2e+01
87	PCB-107	5.41e+05	2.32e+03	2.3e+02	3.39e+05	1.07e+04	3.2e+01
88	PCB-123	*	2.32e+03	*	*	1.07e+04	*
89	PCB-106	5.66e+05	2.32e+03	2.4e+02	3.69e+05	1.07e+04	3.4e+01
90	PCB-118	*	2.32e+03	*	*	1.07e+04	*
91	PCB-122	4.87e+05	2.32e+03	2.1e+02	3.18e+05	1.07e+04	3.0e+01
92	PCB-114	*	2.32e+03	*	*	1.07e+04	*
93	PCB-105	*	2.32e+03	*	*	1.07e+04	*
94	PCB-127	4.97e+05	2.32e+03	2.1e+02	3.12e+05	1.07e+04	2.9e+01
95	PCB-126	*	2.32e+03	*	*	1.07e+04	*
96	PCB-155	*	1.30e+03	*	*	1.24e+03	*
97	PCB-152	8.16e+05	1.30e+03	6.3e+02	6.81e+05	1.24e+03	5.5e+02
98	PCB-150	8.10e+05	1.30e+03	6.3e+02	6.78e+05	1.24e+03	5.5e+02
99	PCB-136	8.32e+05	1.30e+03	6.4e+02	6.82e+05	1.24e+03	5.5e+02
100	PCB-145	7.55e+05	1.30e+03	5.8e+02	6.22e+05	1.24e+03	5.0e+02
101	PCB-148	6.04e+05	1.30e+03	4.7e+02	5.21e+05	1.24e+03	4.2e+02
102	PCB-135/151	7.04e+05	1.30e+03	5.4e+02	5.79e+05	1.24e+03	4.7e+02
103	PCB-154	6.30e+05	1.30e+03	4.9e+02	5.58e+05	1.24e+03	4.5e+02
104	PCB-144	5.94e+05	1.30e+03	4.6e+02	4.90e+05	1.24e+03	4.0e+02

105	PCB-147/149	1.02e+06	6.01e+03	1.7e+02	8.29e+05	2.70e+03	3.1e+02
106	PCB-134	4.34e+05	6.01e+03	7.2e+01	3.45e+05	2.70e+03	1.3e+02
107	PCB-143	5.03e+05	6.01e+03	8.4e+01	4.13e+05	2.70e+03	1.5e+02
108	PCB-139/140	9.18e+05	6.01e+03	1.5e+02	7.95e+05	2.70e+03	3.0e+02
109	PCB-131	4.61e+05	6.01e+03	7.7e+01	3.71e+05	2.70e+03	1.4e+02
110	PCB-142	4.45e+05	6.01e+03	7.4e+01	3.59e+05	2.70e+03	1.3e+02
111	PCB-132	4.32e+05	6.01e+03	7.2e+01	3.35e+05	2.70e+03	1.2e+02
112	PCB-133	4.63e+05	6.01e+03	7.7e+01	3.77e+05	2.70e+03	1.4e+02
113	PCB-165	5.86e+05	6.01e+03	9.8e+01	4.61e+05	2.70e+03	1.7e+02
114	PCB-146	5.30e+05	6.01e+03	8.8e+01	4.31e+05	2.70e+03	1.6e+02
115	PCB-161	6.18e+05	6.01e+03	1.0e+02	4.94e+05	2.70e+03	1.8e+02
116	PCB-153/168	9.30e+05	6.01e+03	1.5e+02	7.56e+05	2.70e+03	2.8e+02
117	PCB-141	4.38e+05	6.01e+03	7.3e+01	3.60e+05	2.70e+03	1.3e+02
118	PCB-130	4.15e+05	6.01e+03	6.9e+01	3.41e+05	2.70e+03	1.3e+02
119	PCB-137	4.47e+05	6.01e+03	7.4e+01	3.67e+05	2.70e+03	1.4e+02
120	PCB-164	5.80e+05	6.01e+03	9.7e+01	4.68e+05	2.70e+03	1.7e+02
121	PCB-129/138/163	1.13e+06	6.01e+03	1.9e+02	9.43e+05	2.70e+03	3.5e+02
122	PCB-160	5.62e+05	6.01e+03	9.3e+01	4.52e+05	2.70e+03	1.7e+02
123	PCB-158	5.83e+05	6.01e+03	9.7e+01	4.69e+05	2.70e+03	1.7e+02
124	PCB-128/166	8.73e+05	6.01e+03	1.5e+02	7.16e+05	2.70e+03	2.7e+02
125	PCB-159	3.82e+05	1.16e+03	3.3e+02	3.10e+05	1.49e+03	2.1e+02
126	PCB-162	3.64e+05	1.16e+03	3.1e+02	3.09e+05	1.49e+03	2.1e+02
127	PCB-167	*	1.16e+03	*	*	1.49e+03	*
128	PCB-156/157	*	1.16e+03	*	*	1.49e+03	*
129	PCB-169	*	1.16e+03	*	*	1.49e+03	*
130	PCB-188	*	9.72e+02	*	*	7.32e+02	*
131	PCB-179	7.00e+05	9.72e+02	7.2e+02	7.05e+05	7.32e+02	9.6e+02
132	PCB-184	7.06e+05	9.72e+02	7.3e+02	6.62e+05	7.32e+02	9.0e+02
133	PCB-176	6.74e+05	9.72e+02	6.9e+02	6.77e+05	7.32e+02	9.3e+02
134	PCB-186	6.15e+05	9.72e+02	6.3e+02	6.16e+05	7.32e+02	8.4e+02
135	PCB-178	4.68e+05	9.72e+02	4.8e+02	4.68e+05	7.32e+02	6.4e+02
136	PCB-175	4.98e+05	9.72e+02	5.1e+02	5.19e+05	7.32e+02	7.1e+02
137	PCB-187	5.04e+05	9.72e+02	5.2e+02	5.06e+05	7.32e+02	6.9e+02
138	PCB-182	4.50e+05	9.72e+02	4.6e+02	4.49e+05	7.32e+02	6.1e+02
139	PCB-183	3.92e+05	2.12e+03	1.8e+02	3.80e+05	1.12e+03	3.4e+02
140	PCB-185	3.32e+05	2.12e+03	1.6e+02	3.46e+05	1.12e+03	3.1e+02
141	PCB-174	3.19e+05	2.12e+03	1.5e+02	3.34e+05	1.12e+03	3.0e+02
142	PCB-177	3.13e+05	2.12e+03	1.5e+02	3.17e+05	1.12e+03	2.8e+02
143	PCB-181	3.10e+05	2.12e+03	1.5e+02	3.34e+05	1.12e+03	3.0e+02
144	PCB-171/173	5.53e+05	2.12e+03	2.6e+02	5.71e+05	1.12e+03	5.1e+02
145	PCB-172	2.78e+05	2.12e+03	1.3e+02	3.04e+05	1.12e+03	2.7e+02
146	PCB-192	3.58e+05	2.12e+03	1.7e+02	3.70e+05	1.12e+03	3.3e+02
147	PCB-180/193	4.89e+05	2.12e+03	2.3e+02	5.07e+05	1.12e+03	4.5e+02
148	PCB-191	3.83e+05	2.12e+03	1.8e+02	3.94e+05	1.12e+03	3.5e+02
149	PCB-170	2.80e+05	2.12e+03	1.3e+02	2.87e+05	1.12e+03	2.6e+02
150	PCB-190	3.48e+05	2.12e+03	1.6e+02	3.71e+05	1.12e+03	3.3e+02
151	PCB-189	*	2.12e+03	*	*	1.12e+03	*
152	PCB-202	*	9.84e+02	*	*	9.24e+02	*
153	PCB-201	7.26e+05	9.84e+02	7.4e+02	8.01e+05	9.24e+02	8.7e+02
154	PCB-204	6.80e+05	9.84e+02	6.9e+02	8.00e+05	9.24e+02	8.7e+02
155	PCB-197	6.56e+05	9.84e+02	6.7e+02	7.74e+05	9.24e+02	8.4e+02
156	PCB-200	6.66e+05	9.84e+02	6.8e+02	7.90e+05	9.24e+02	8.5e+02
157	PCB-198/199	6.97e+05	9.84e+02	7.1e+02	7.94e+05	9.24e+02	8.6e+02
158	PCB-196	4.65e+05	9.84e+02	4.7e+02	5.34e+05	9.24e+02	5.8e+02
159	PCB-203	4.99e+05	9.84e+02	5.1e+02	5.56e+05	9.24e+02	6.0e+02
160	PCB-195	4.27e+05	9.84e+02	4.3e+02	5.03e+05	9.24e+02	5.4e+02
161	PCB-194	4.01e+05	9.84e+02	4.1e+02	4.97e+05	9.24e+02	5.4e+02
162	PCB-205	*	9.84e+02	*	*	9.24e+02	*

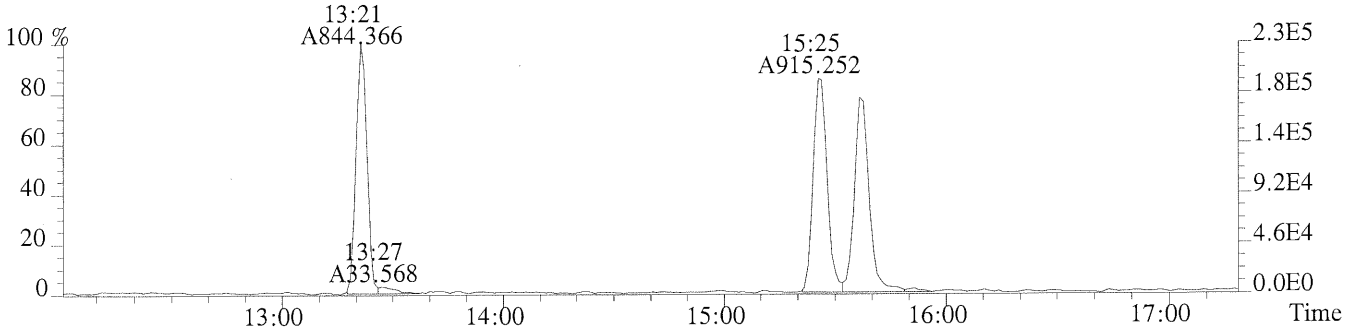
Run #8 Filename U142147#1 Samp: 1 Acquired: 21-NOV-11 09:35:46

163	PCB-208	*	1.58e+03	*	*	2.59e+03	*
164	PCB-207	5.10e+05	1.58e+03	3.2e+02	6.28e+05	2.59e+03	2.4e+02
165	PCB-206	*	3.22e+03	*	*	4.04e+03	*
166	PCB-209	*	2.43e+05	*	*	2.15e+05	*
167	PCB-1L	2.93e+06	1.04e+04	2.8e+02	9.89e+05	6.92e+04	1.4e+01
168	PCB-3L	2.33e+06	1.04e+04	2.2e+02	7.69e+05	6.92e+04	1.1e+01
169	PCB-4L	1.63e+06	1.36e+04	1.2e+02	1.06e+06	3.59e+03	3.0e+02
170	PCB-15L	1.31e+06	8.32e+03	1.6e+02	8.45e+05	3.53e+03	2.4e+02
171	PCB-19L	1.14e+06	4.17e+04	2.7e+01	1.07e+06	1.21e+04	8.8e+01
172	PCB-37L	9.55e+05	4.65e+04	2.1e+01	9.13e+05	1.03e+04	8.8e+01
173	PCB-54L	1.13e+06	1.42e+03	8.0e+02	1.41e+06	1.01e+03	1.4e+03
174	PCB-81L	7.16e+05	1.41e+03	5.1e+02	8.74e+05	1.44e+03	6.1e+02
175	PCB-77L	6.61e+05	1.41e+03	4.7e+02	8.57e+05	1.44e+03	6.0e+02
176	PCB-104L	1.69e+06	1.01e+03	1.7e+03	1.05e+06	9.28e+02	1.1e+03
177	PCB-123L	9.10e+05	1.96e+03	4.6e+02	6.14e+05	9.92e+02	6.2e+02
178	PCB-118L	8.99e+05	1.96e+03	4.6e+02	6.10e+05	9.92e+02	6.2e+02
179	PCB-114L	9.30e+05	1.96e+03	4.7e+02	5.90e+05	9.92e+02	6.0e+02
180	PCB-105L	8.76e+05	1.96e+03	4.5e+02	5.52e+05	9.92e+02	5.6e+02
181	PCB-126L	7.40e+05	1.96e+03	3.8e+02	4.61e+05	9.92e+02	4.6e+02
182	PCB-155L	1.62e+06	1.44e+03	1.1e+03	1.24e+06	9.72e+02	1.3e+03
183	PCB-167L	6.92e+05	1.92e+03	3.6e+02	5.38e+05	1.37e+03	3.9e+02
184	PCB-156/157L	9.60e+05	1.92e+03	5.0e+02	7.59e+05	1.37e+03	5.5e+02
185	PCB-169L	5.45e+05	1.92e+03	2.8e+02	4.36e+05	1.37e+03	3.2e+02
186	PCB-188L	1.24e+06	5.80e+02	2.1e+03	1.16e+06	6.92e+02	1.7e+03
187	PCB-189L	6.46e+05	7.84e+02	8.2e+02	5.96e+05	6.68e+02	8.9e+02
188	PCB-202L	8.70e+05	7.72e+02	1.1e+03	9.69e+05	7.00e+02	1.4e+03
189	PCB-205L	5.30e+05	7.72e+02	6.9e+02	6.02e+05	7.00e+02	8.6e+02
190	PCB-208L	6.03e+05	8.20e+02	7.4e+02	7.75e+05	5.72e+02	1.4e+03
191	PCB-206L	3.43e+05	1.27e+03	2.7e+02	4.33e+05	8.04e+02	5.4e+02
192	PCB-209L	5.35e+05	9.12e+02	5.9e+02	4.50e+05	8.72e+02	5.2e+02
193	PCB-28L	*	4.65e+04	*	*	1.03e+04	*
194	PCB-111L	*	8.24e+02	*	*	8.64e+02	*
195	PCB-178L	*	5.80e+02	*	*	6.92e+02	*
196	PCB-9L	*	8.32e+03	*	*	3.53e+03	*
197	PCB-52L	*	1.43e+03	*	*	1.48e+03	*
198	PCB-101L	*	8.24e+02	*	*	8.64e+02	*
199	PCB-138L	*	9.76e+02	*	*	1.10e+03	*
200	PCB-194L	*	7.72e+02	*	*	7.00e+02	*

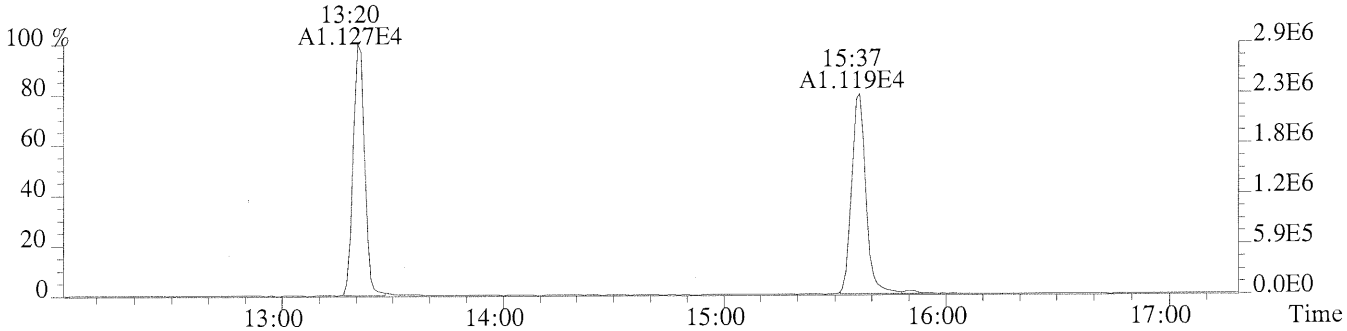
File:U142147 #1-341 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2464.0,1.00%,F,T)



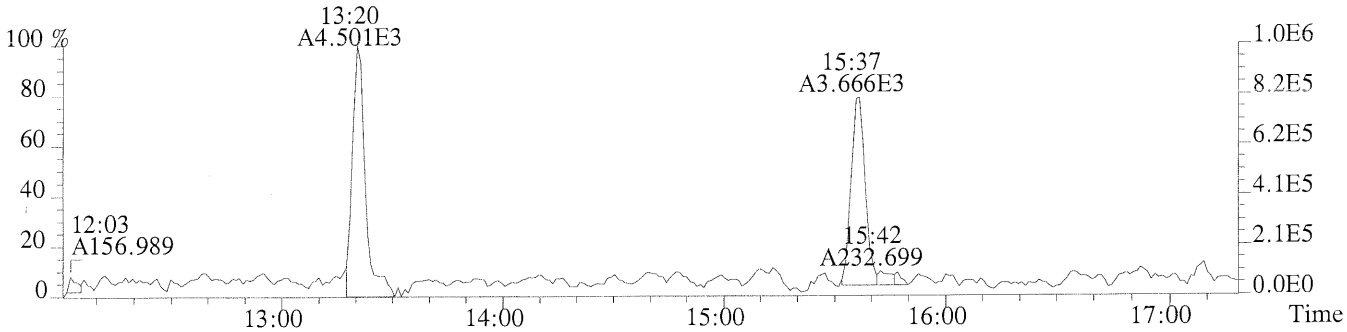
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2452.0,1.00%,F,T)



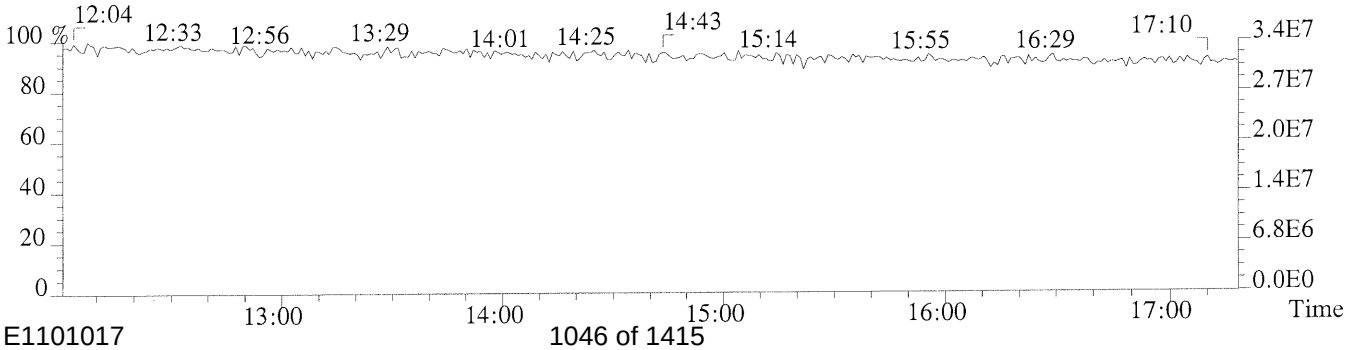
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7832.0,1.00%,F,T)



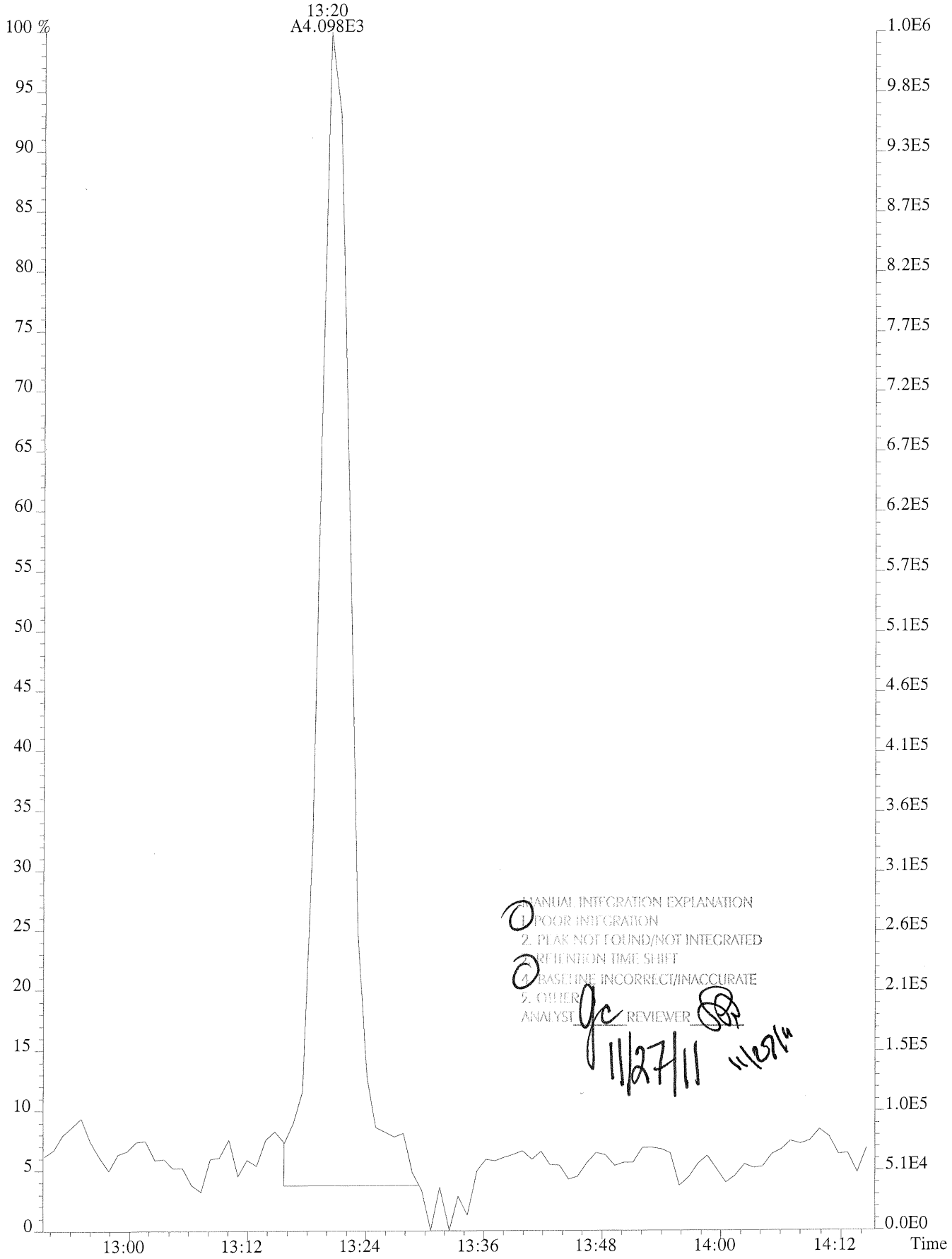
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,82312.0,1.00%,F,T)



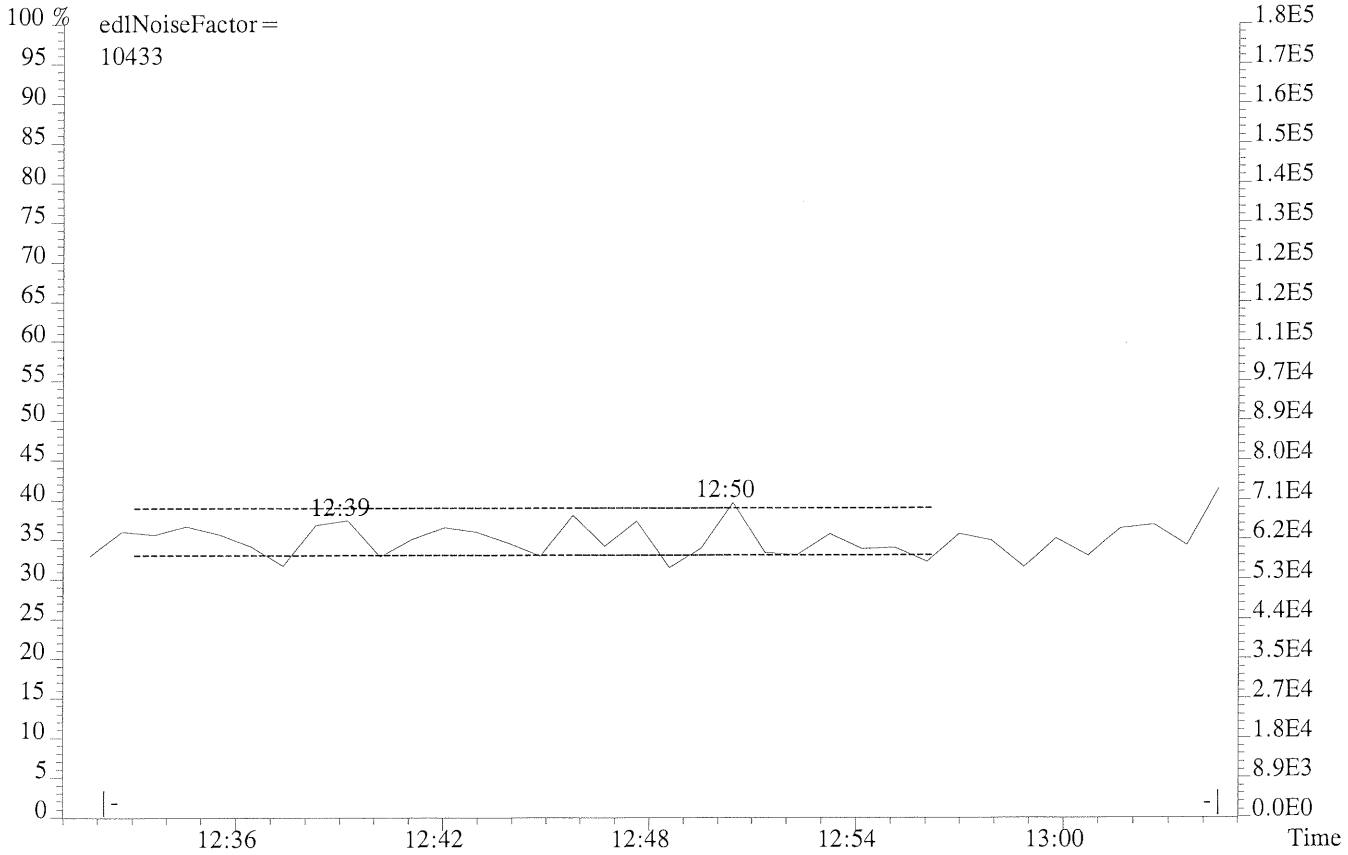
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



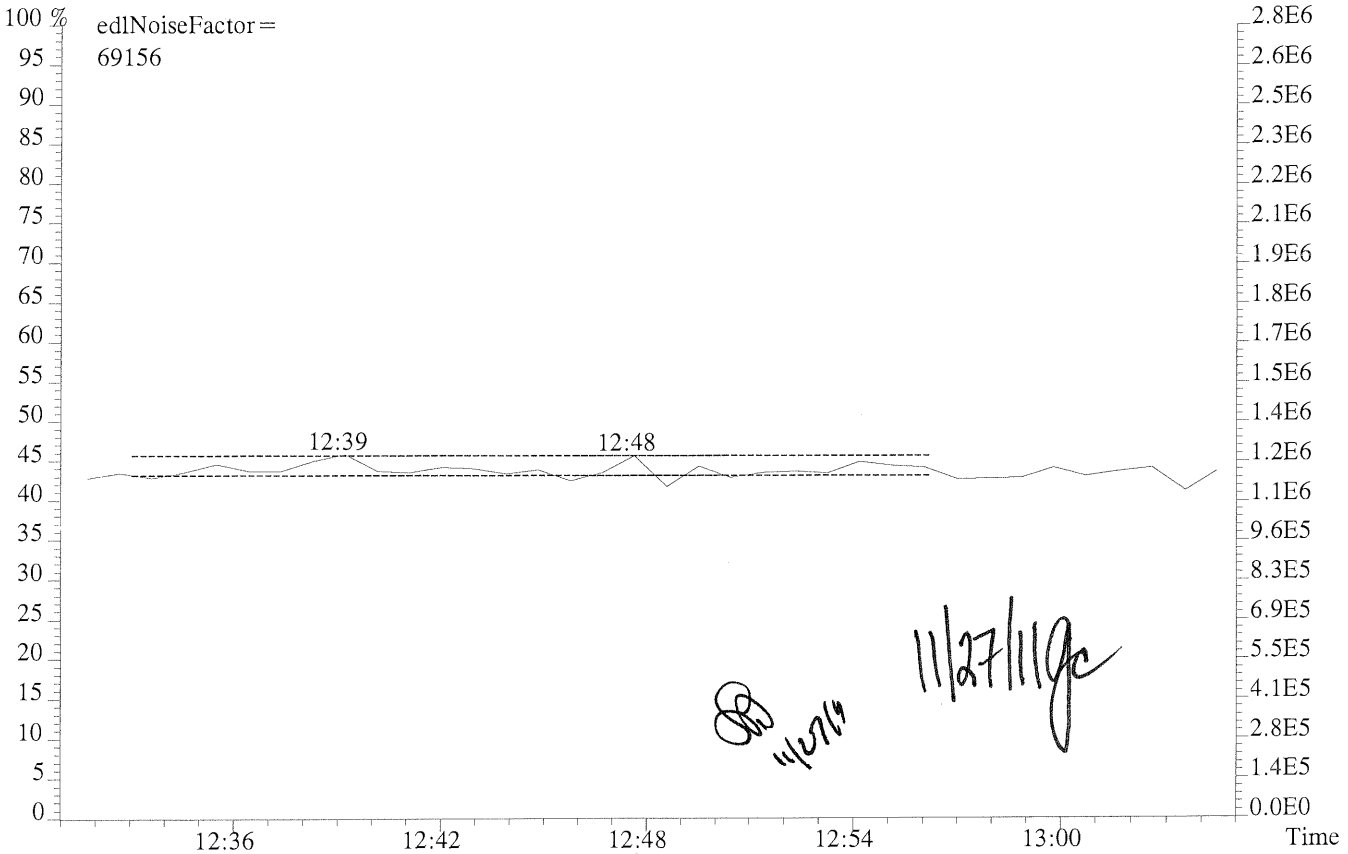
File:U142147 #1-341 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,82312.0,1.00%,F,T)



File:U142147 #1-341 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
200.0795

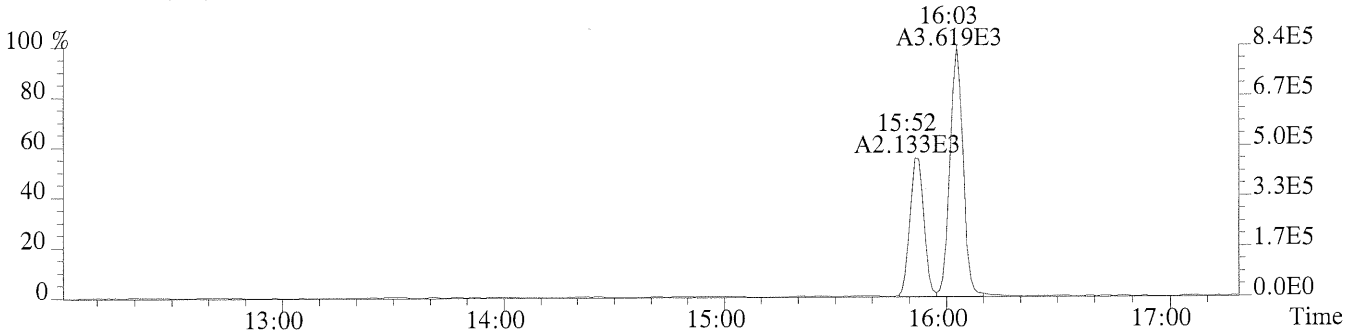


202.0766

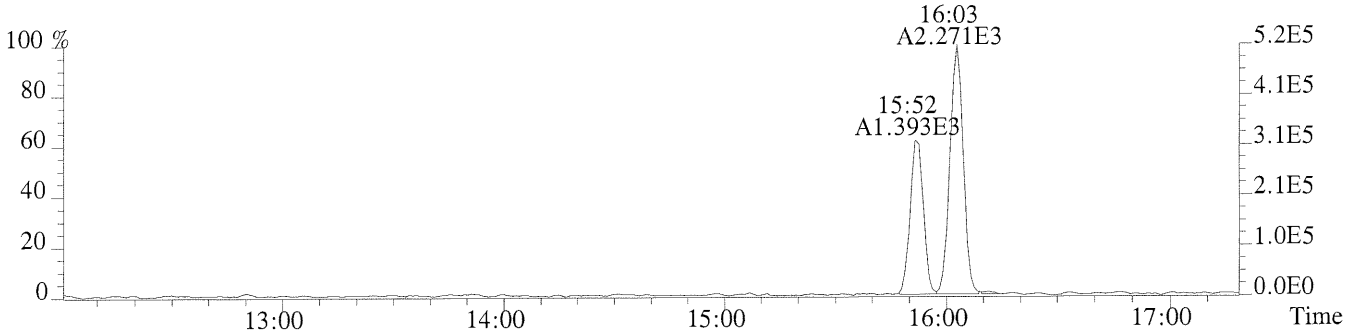


11/27/11 gc

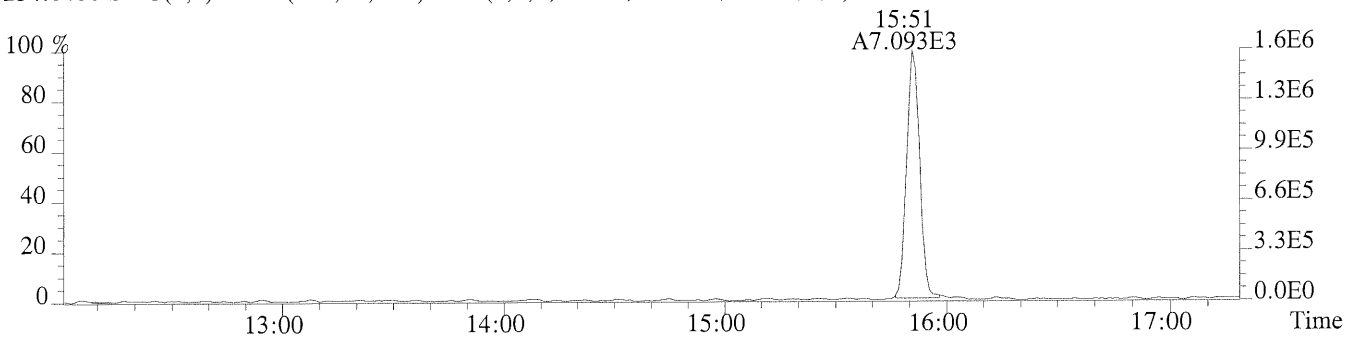
File:U142147 #1-341 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1336.0,1.00%,F,T)



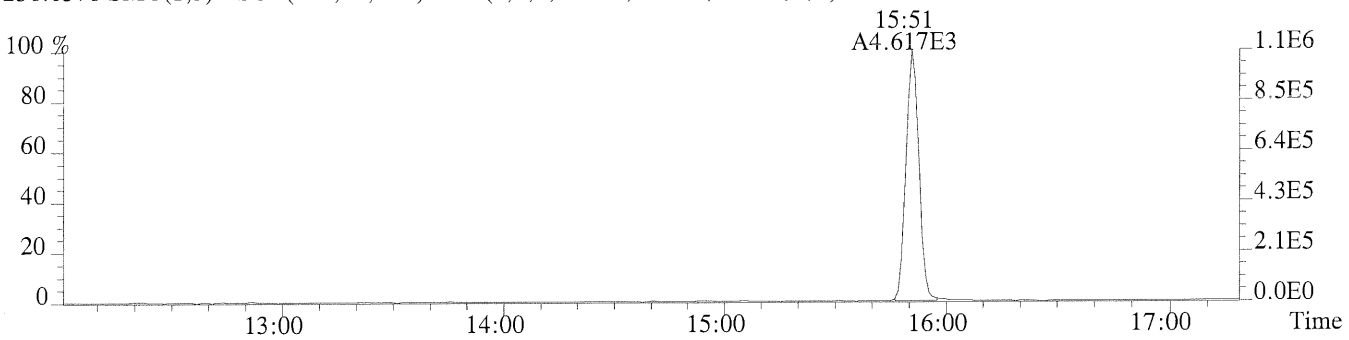
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5224.0,1.00%,F,T)



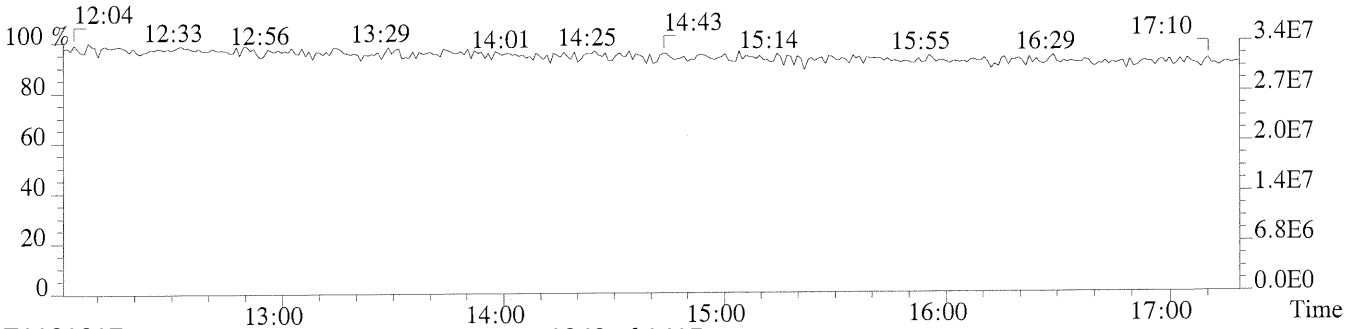
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,13608.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3588.0,1.00%,F,T)

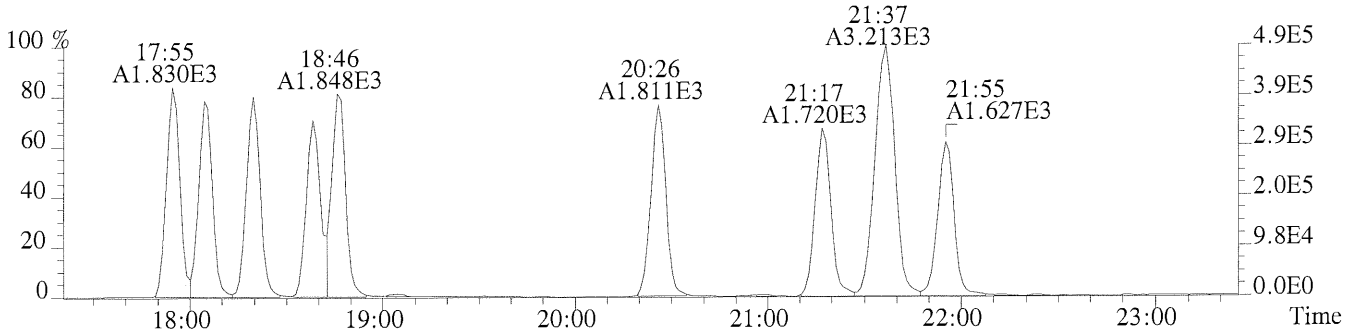


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

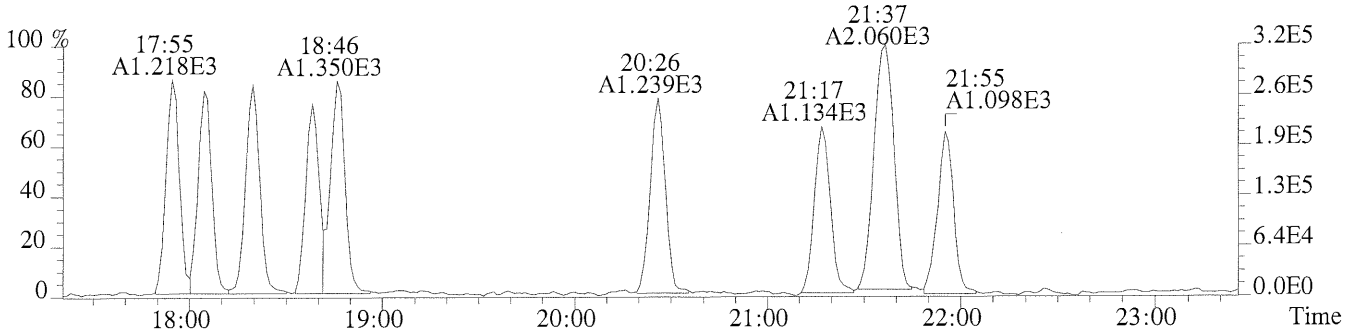


File:U142147 #1-336 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

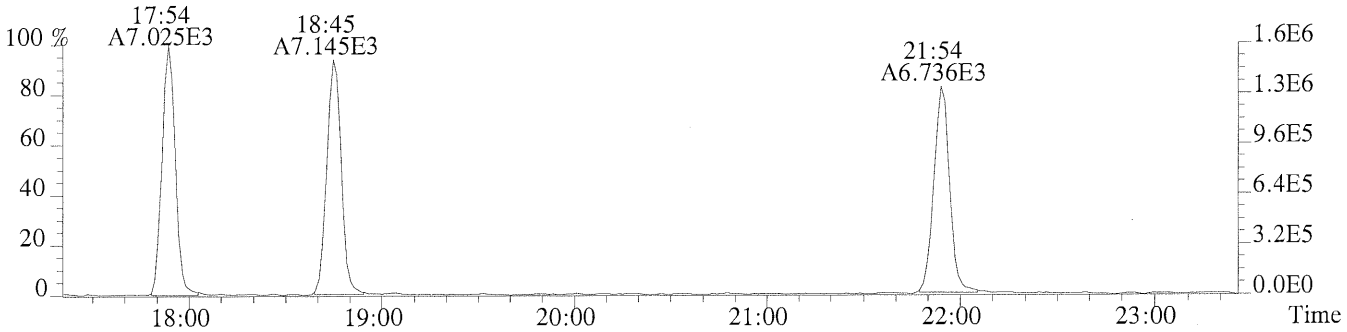
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)



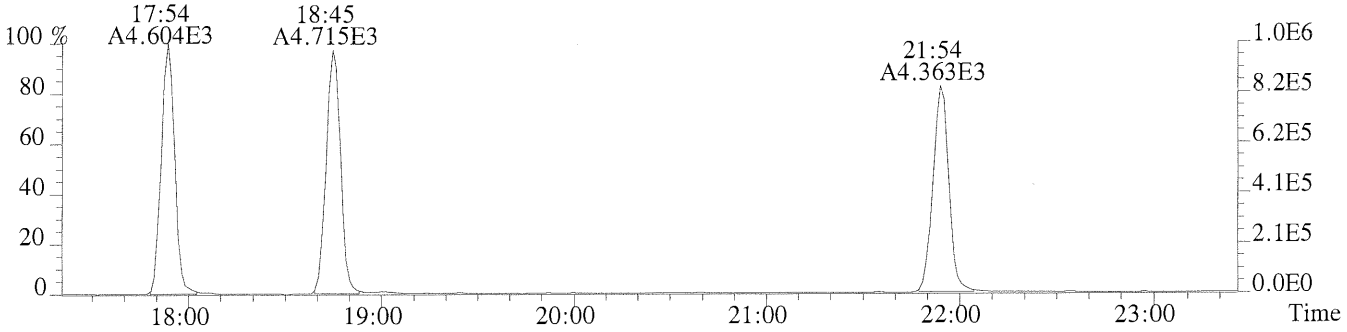
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6172.0,1.00%,F,T)



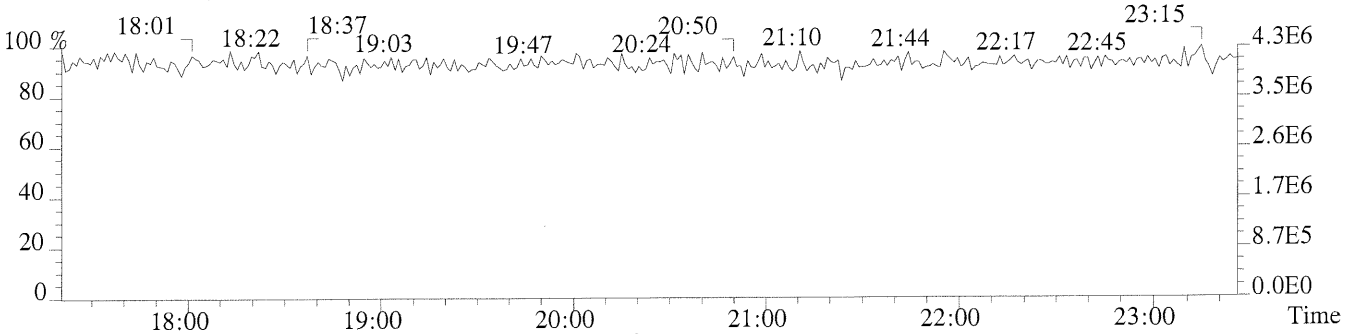
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8316.0,1.00%,F,T)



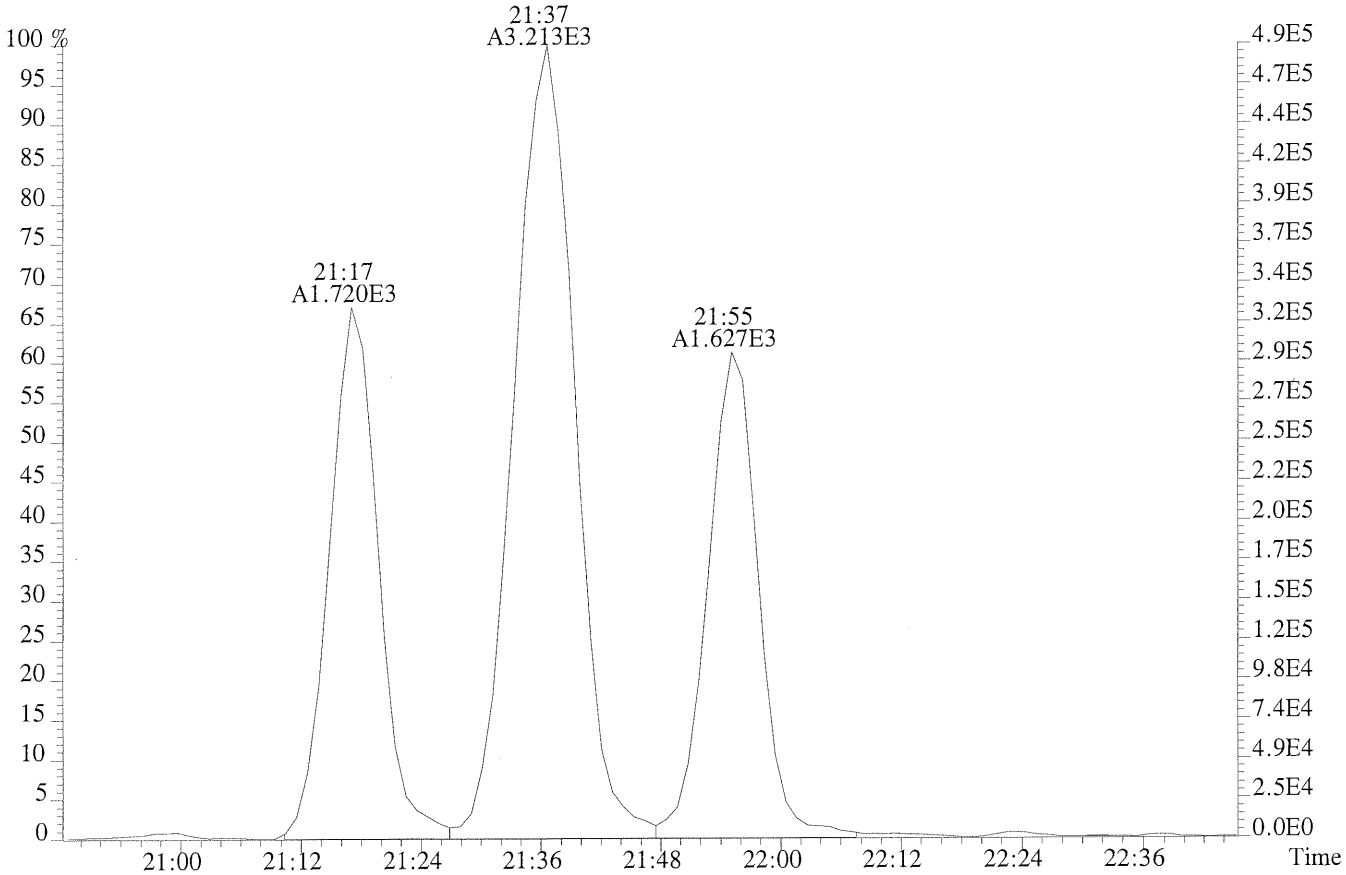
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3528.0,1.00%,F,T)



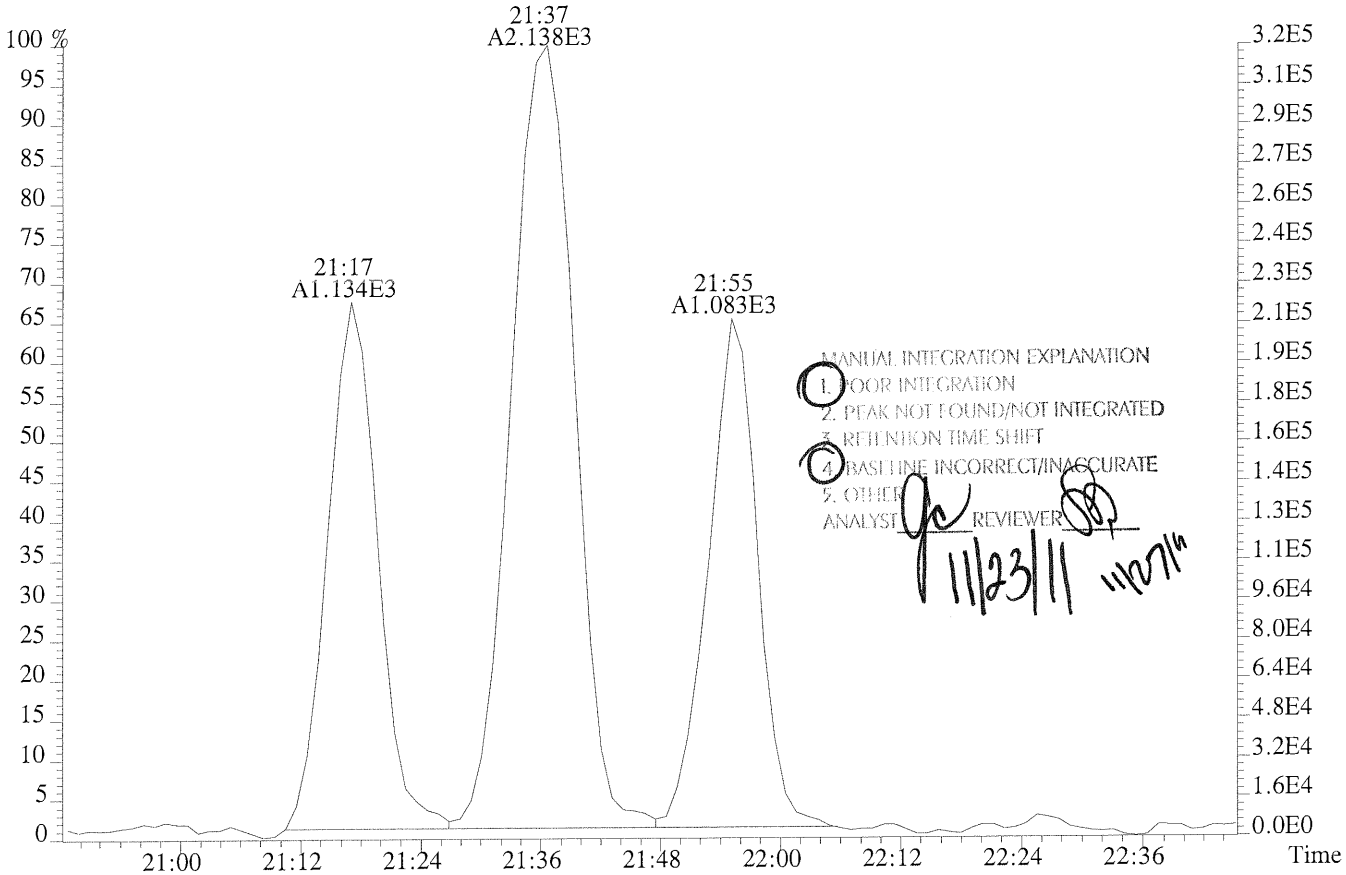
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142147 #1-336 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1200.0,1.00%,F,T)

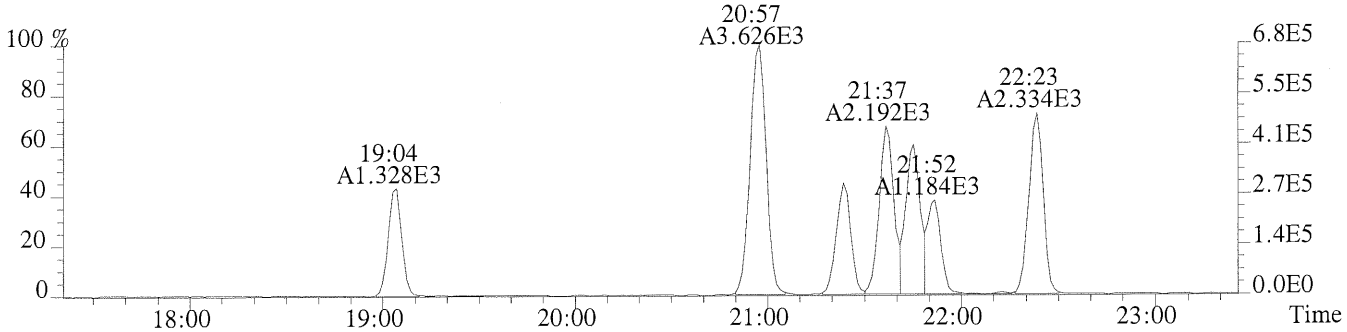


223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6172.0,1.00%,F,T)

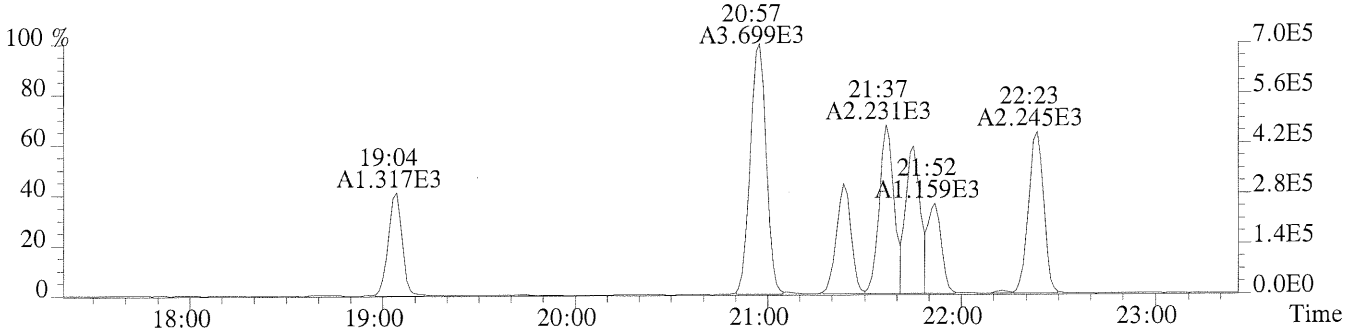


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST JC REVIEWER SB
11/23/11 11/27/11

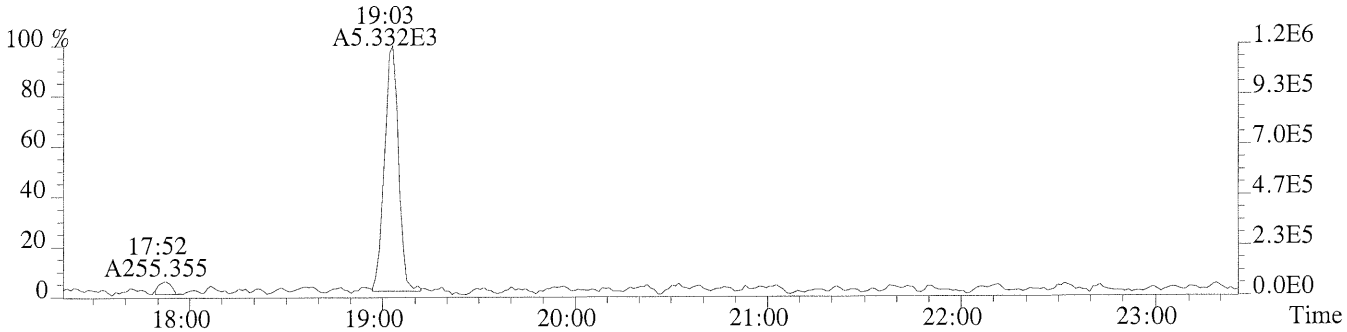
File:U142147 #1-336 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1612.0,1.00%,F,T)



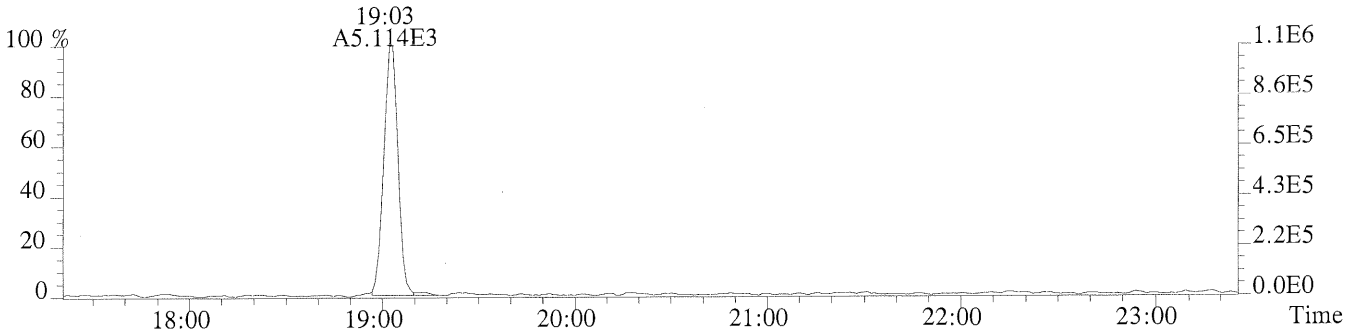
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1708.0,1.00%,F,T)



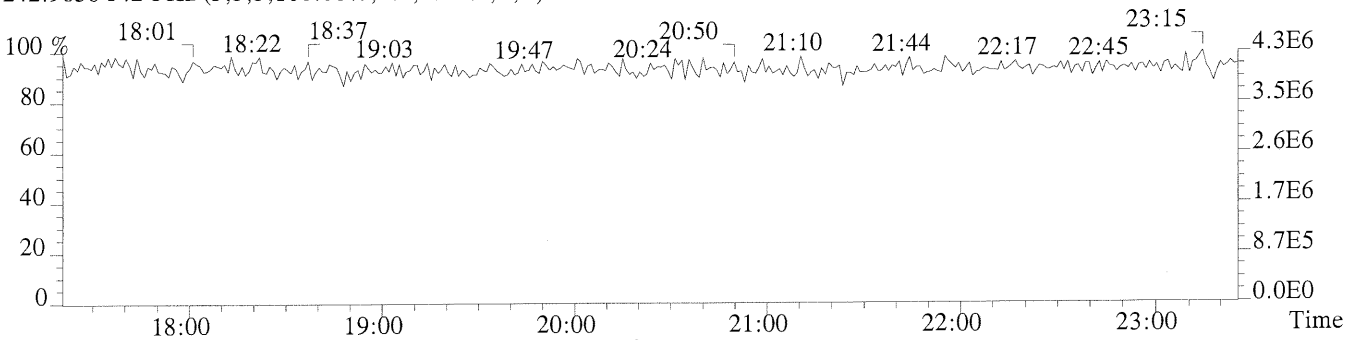
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,41688.0,1.00%,F,T)



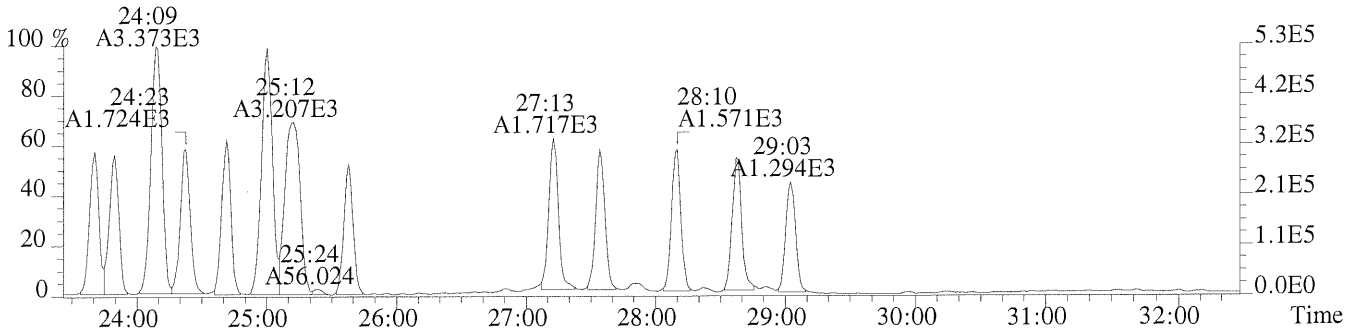
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12136.0,1.00%,F,T)



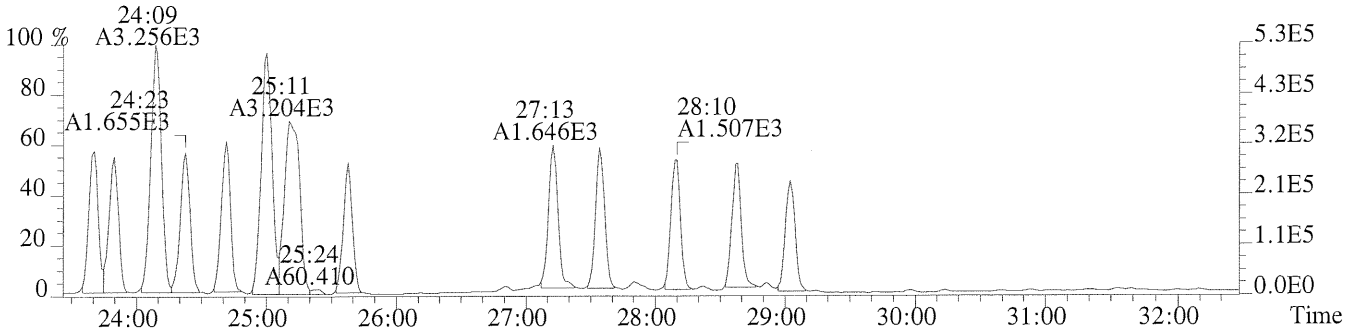
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



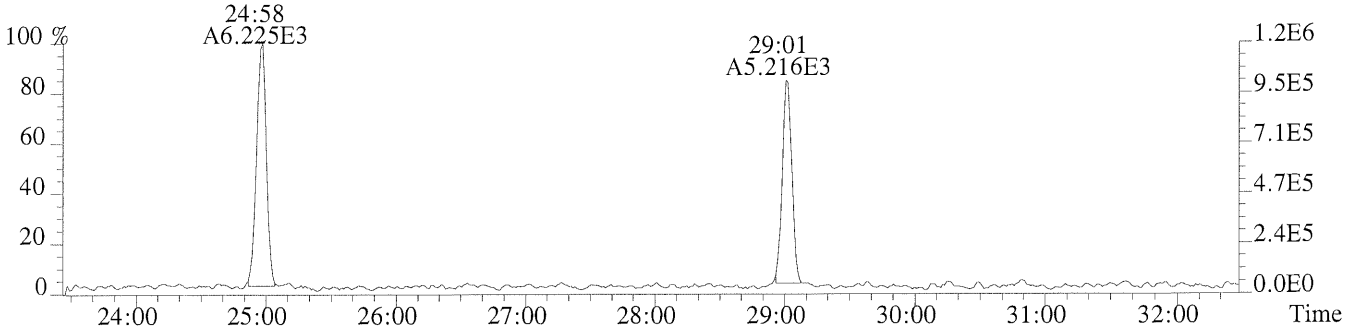
File:U142147 #1-578 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8796.0,1.00%,F,T)



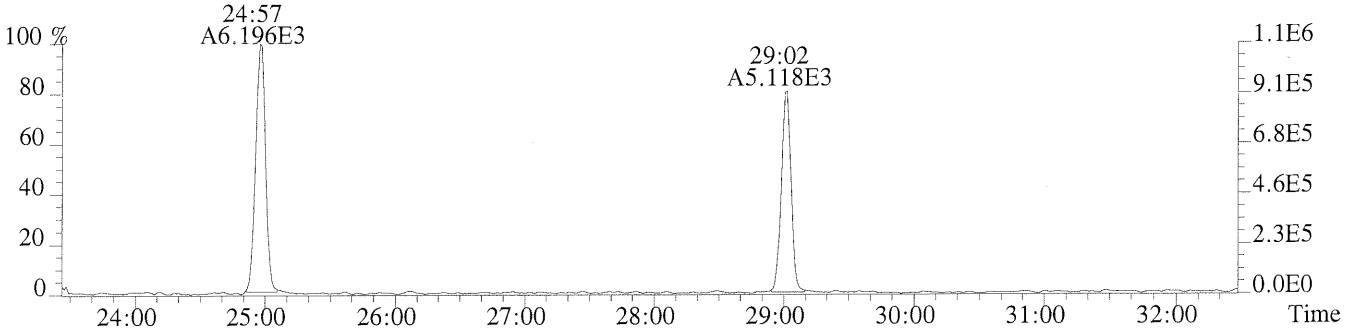
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12268.0,1.00%,F,T)



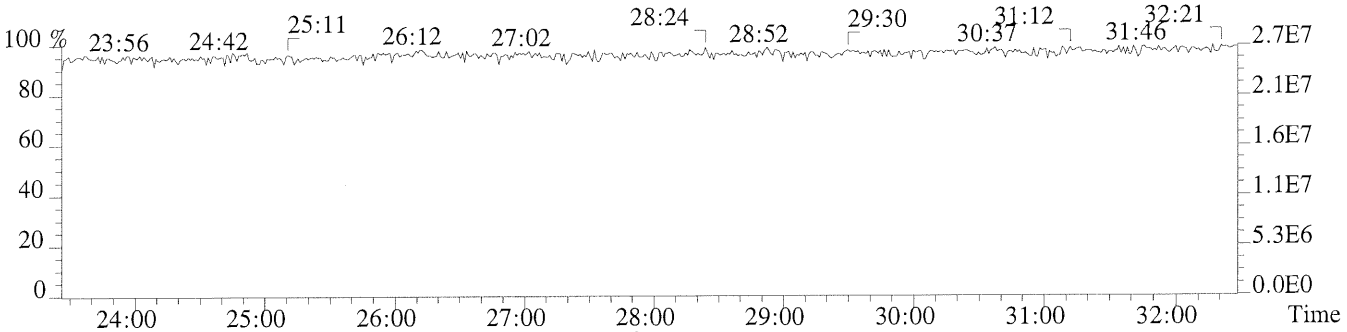
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,46548.0,1.00%,F,T)



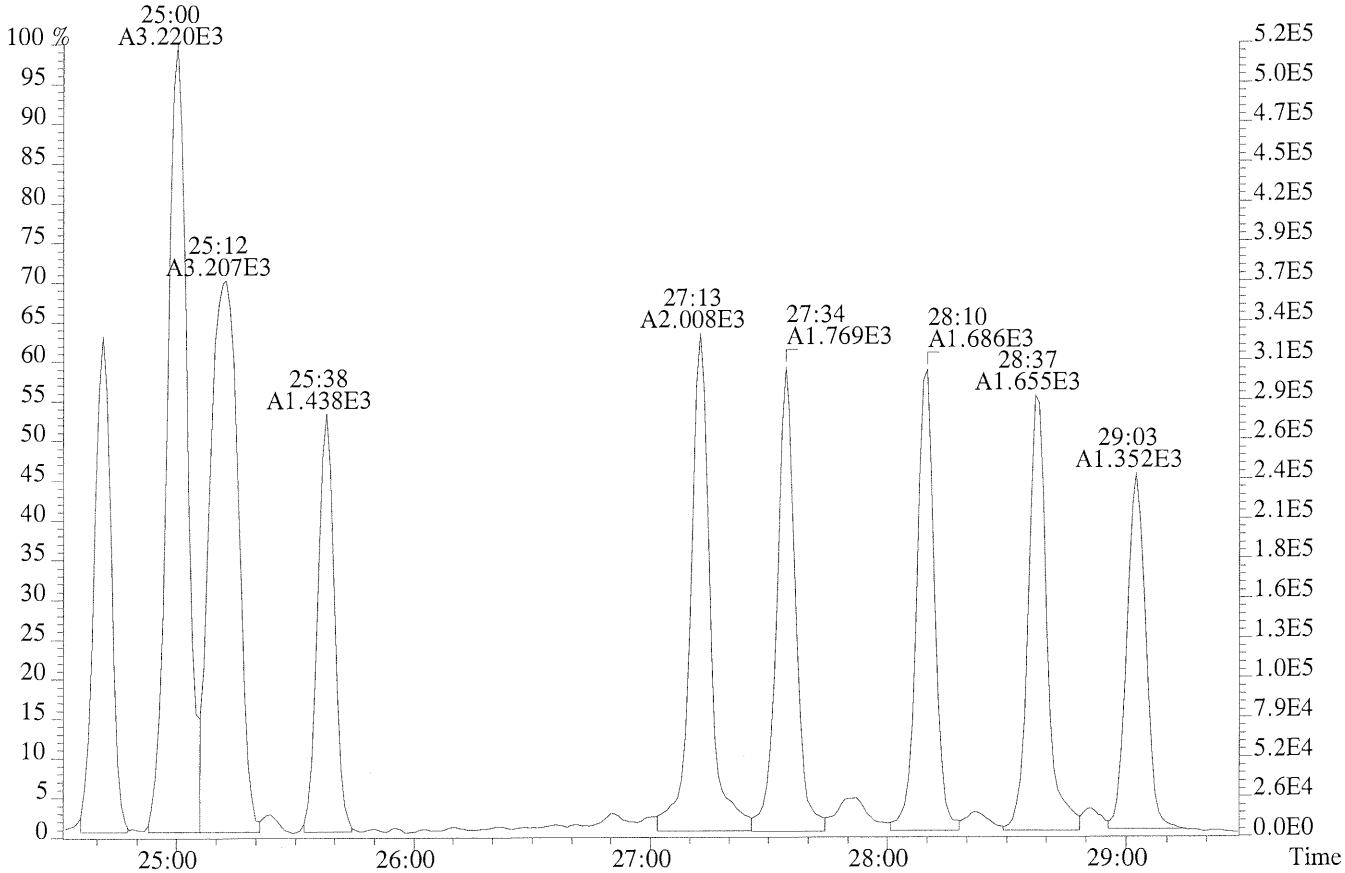
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10332.0,1.00%,F,T)



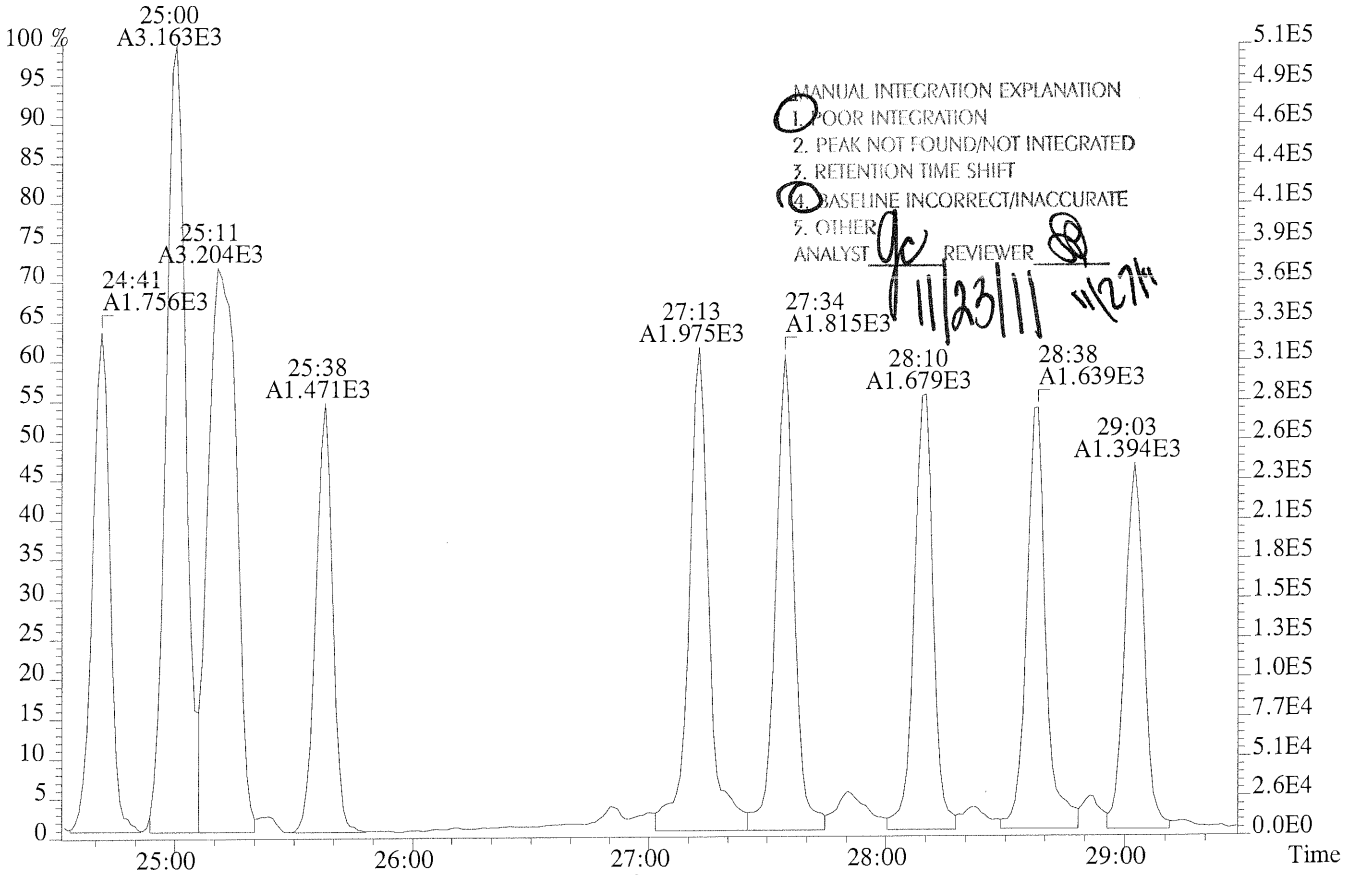
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142147 #1-578 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8796.0,1.00%,F,T)

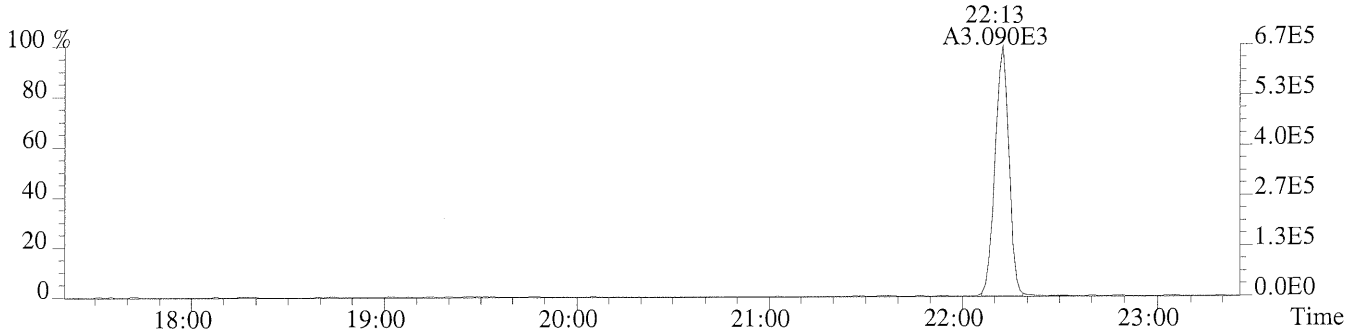


257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12268.0,1.00%,F,T)

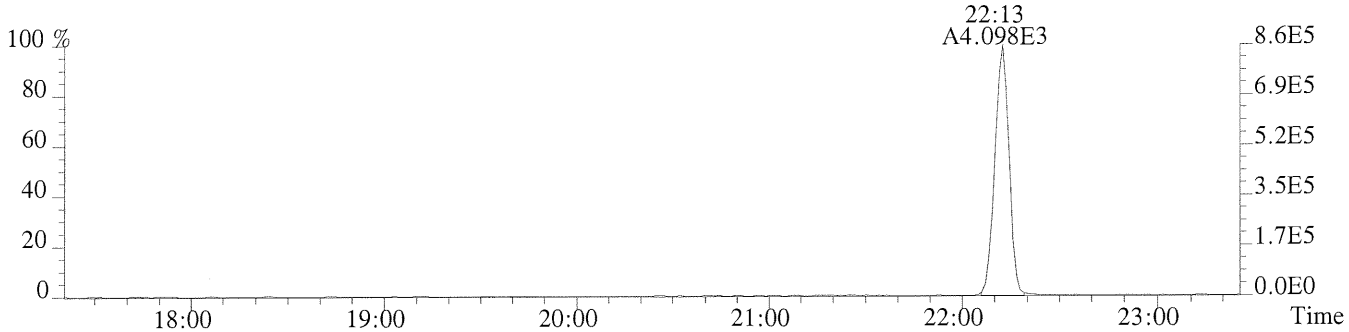


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST JC 11/23/11 REVIEWER 11/27/11

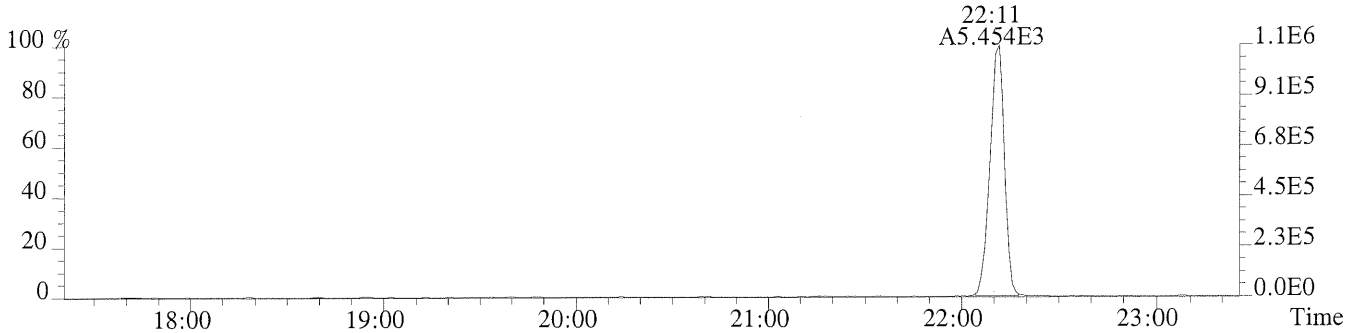
File:U142147 #1-336 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



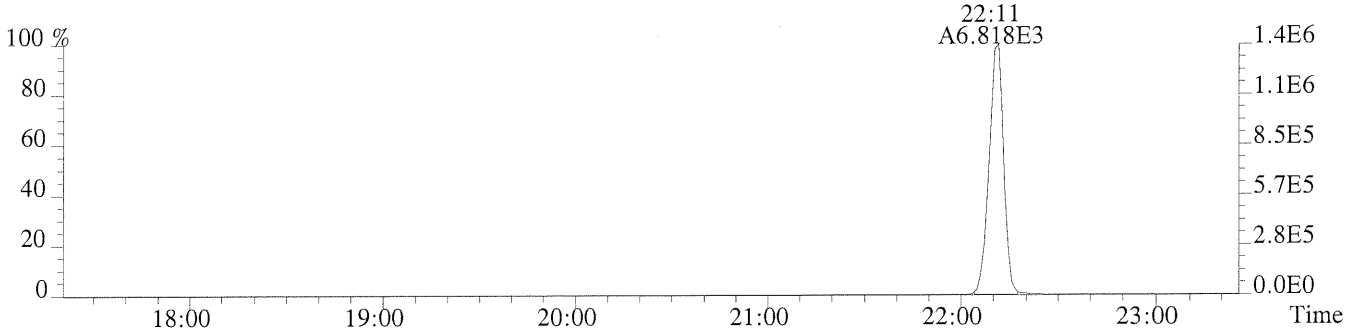
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1232.0,1.00%,F,T)



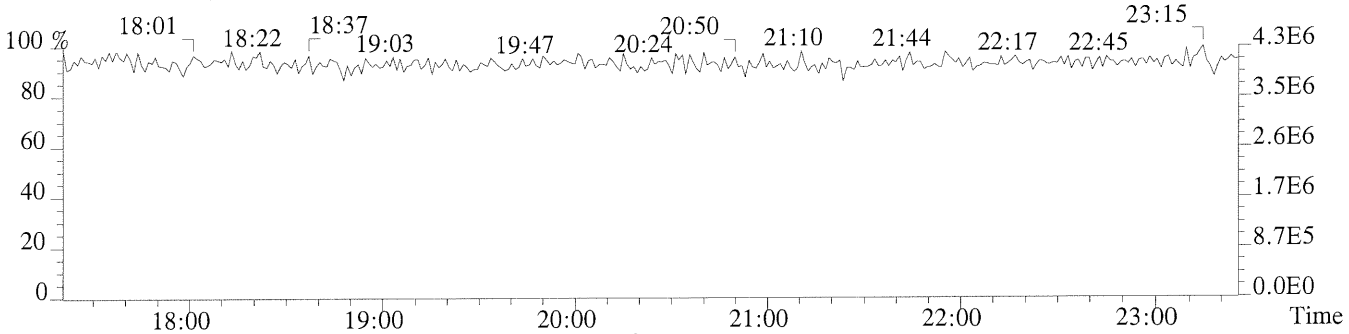
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1424.0,1.00%,F,T)



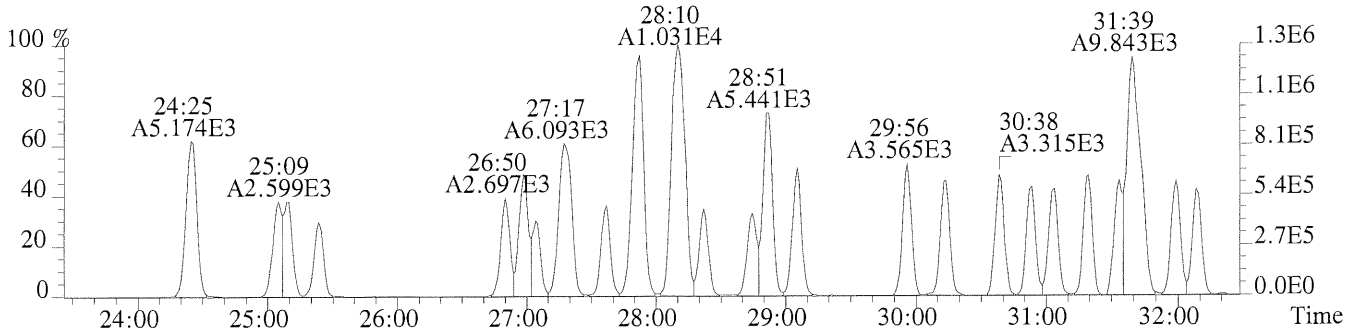
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1012.0,1.00%,F,T)



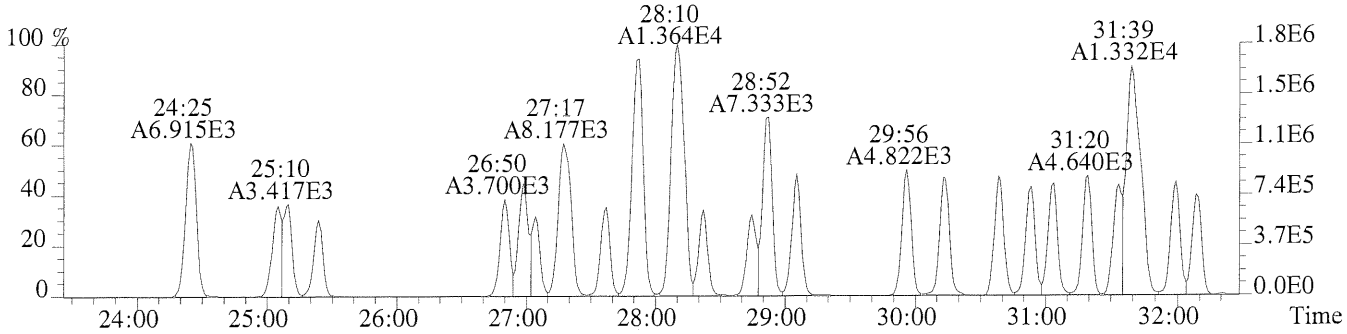
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



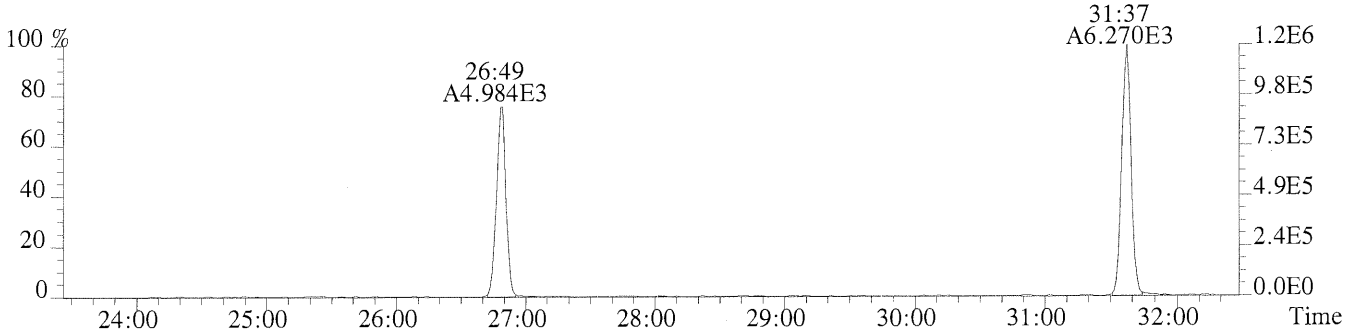
File:U142147 #1-578 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



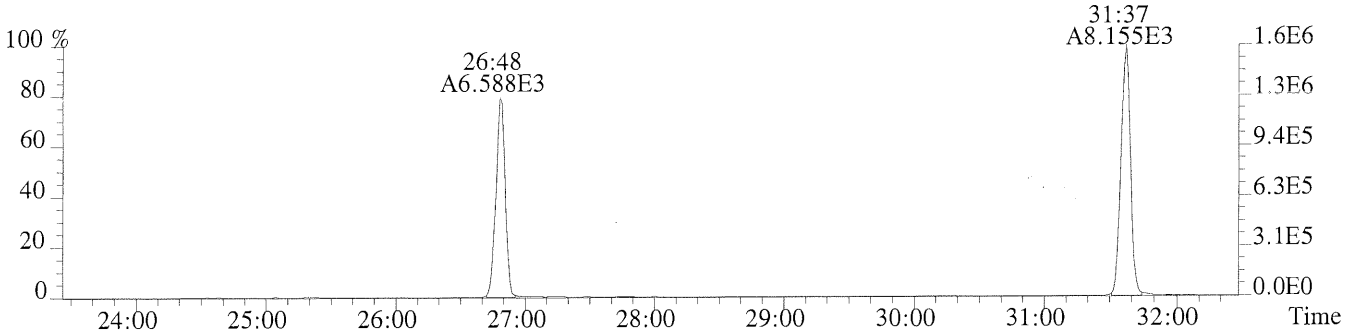
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)



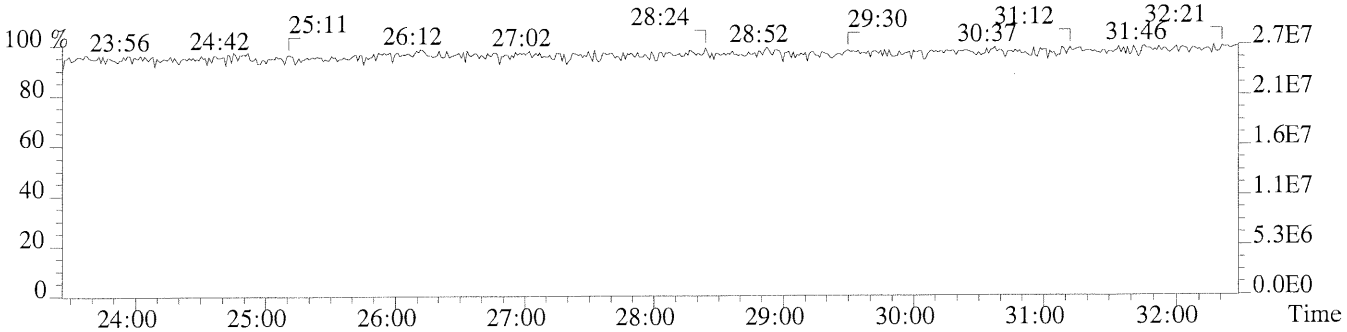
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1432.0,1.00%,F,T)



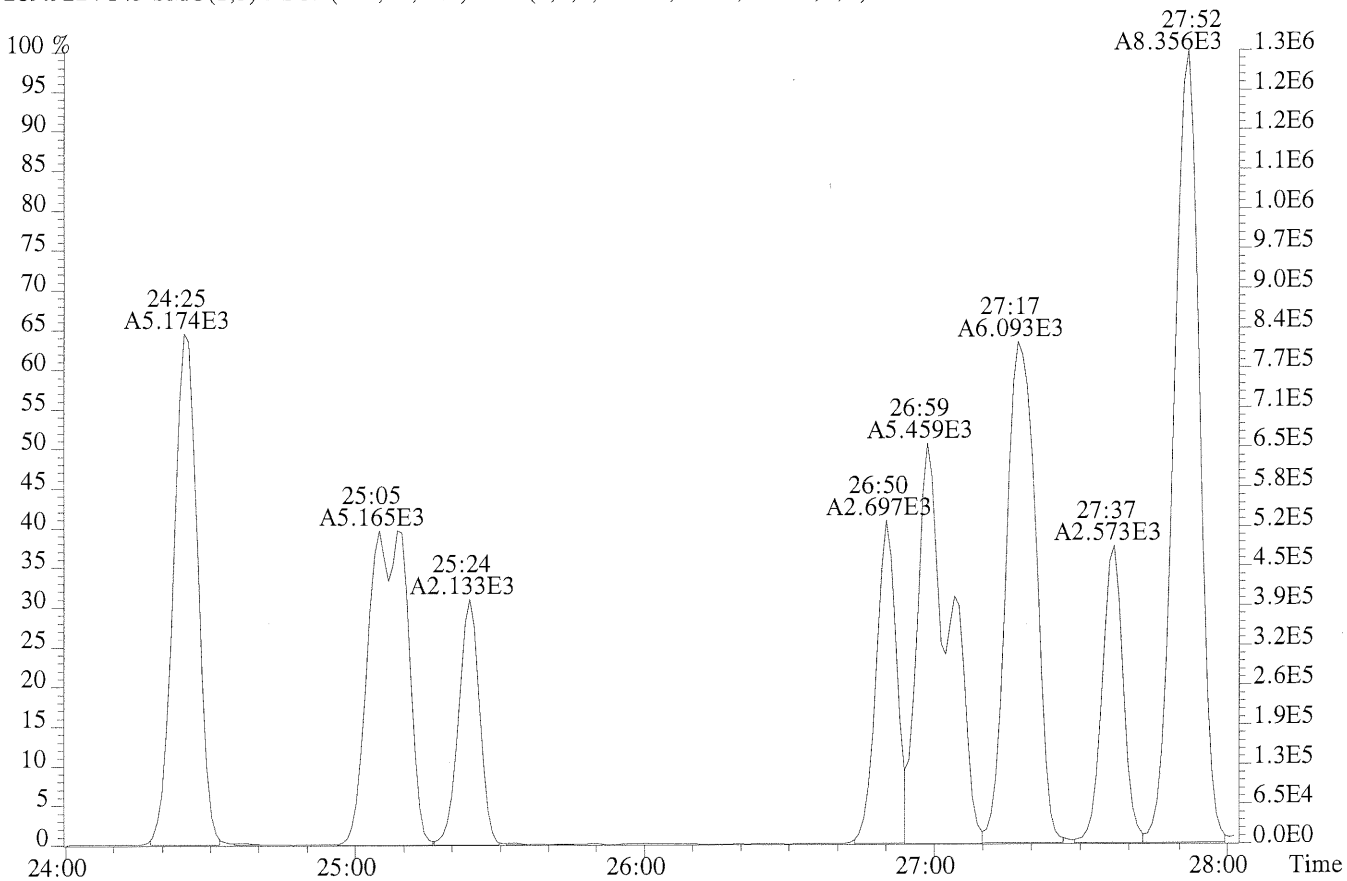
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1476.0,1.00%,F,T)



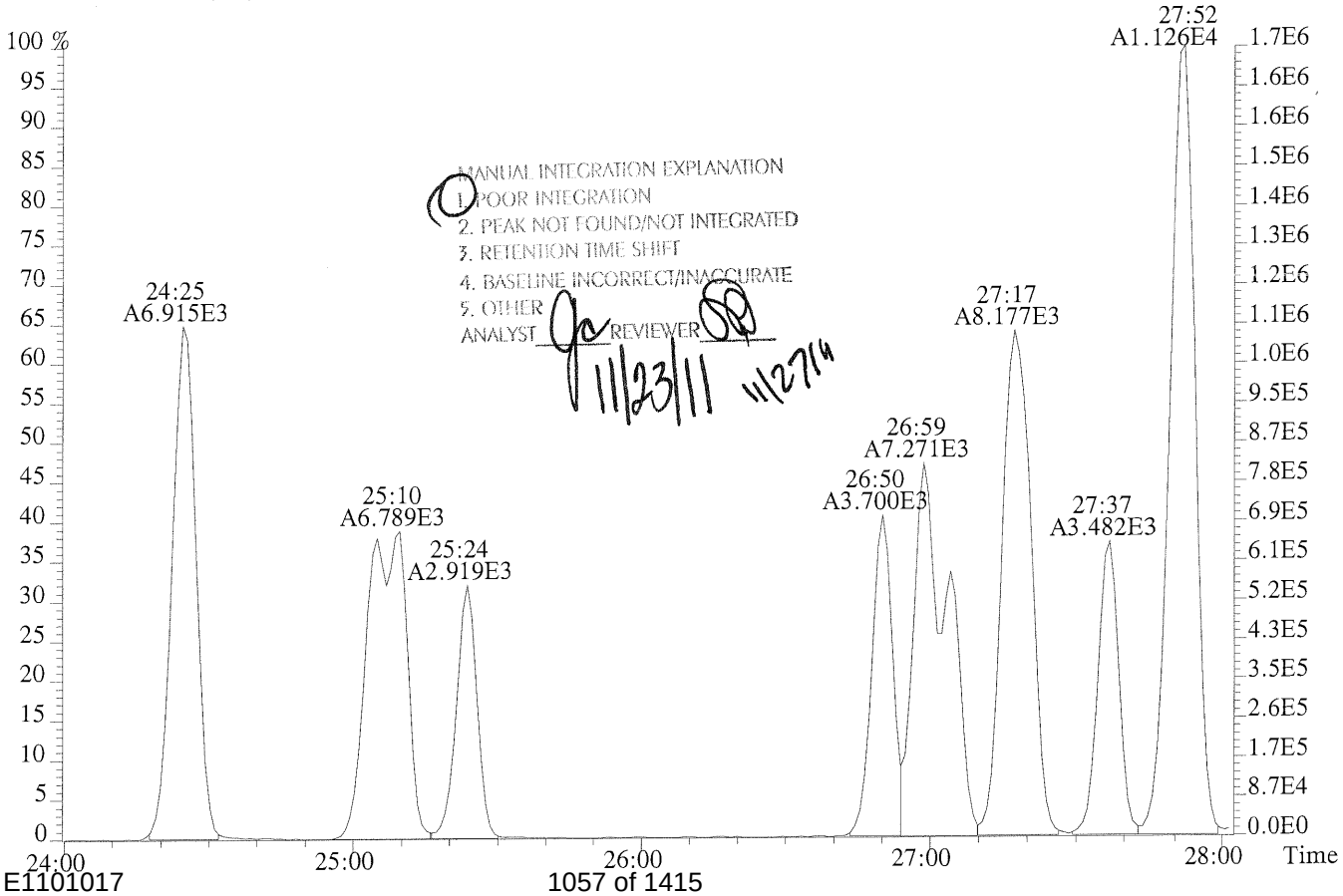
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142147 #1-578 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)

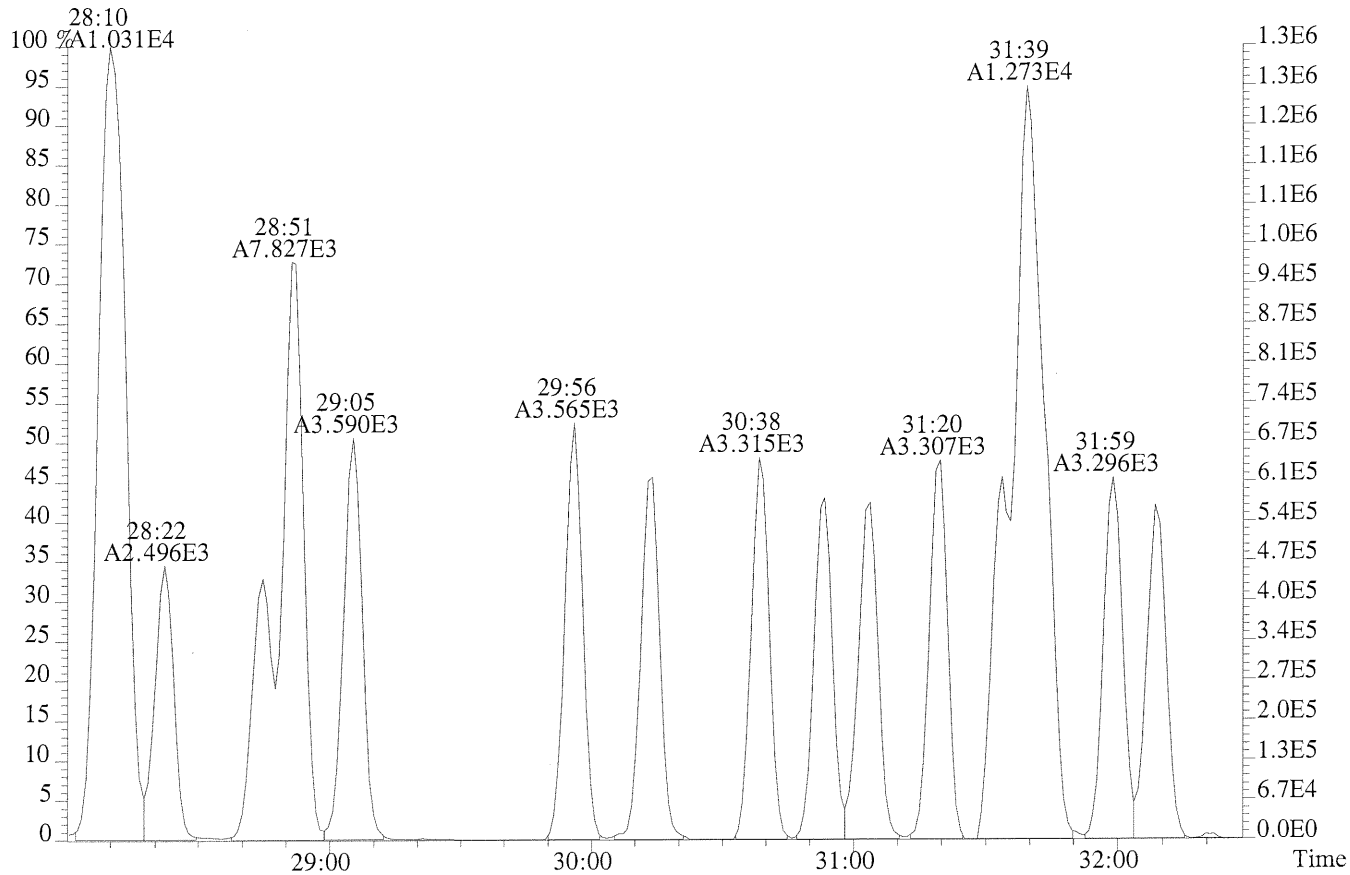


291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)

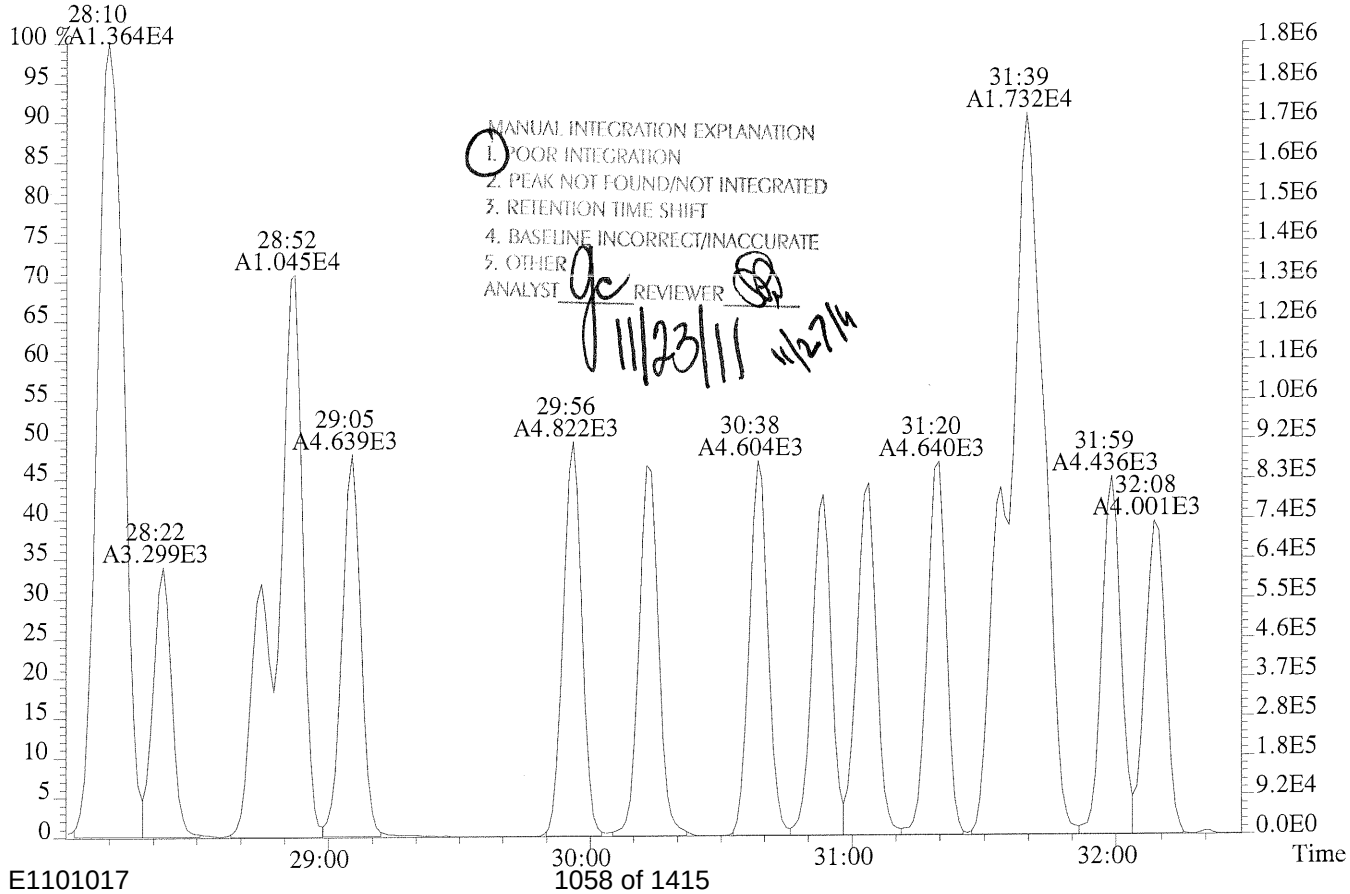


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST JC REVIEWER SB
11/23/11 11/27/11

File:U142147 #1-578 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



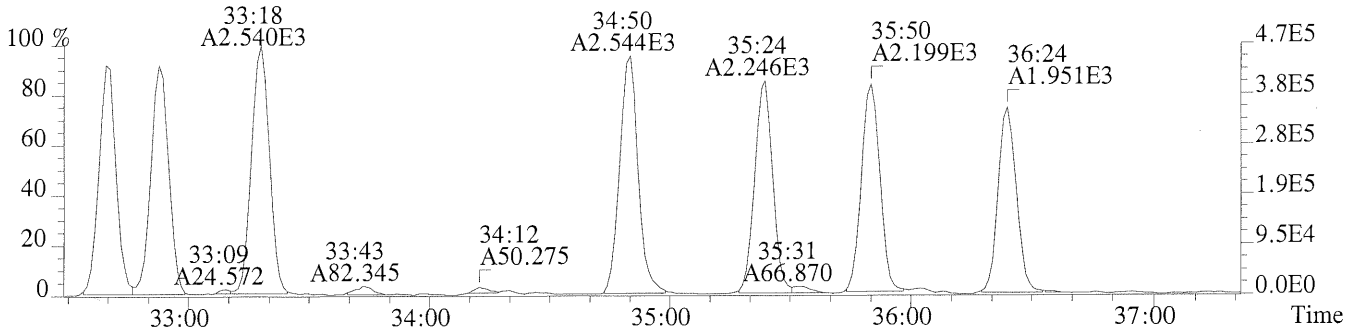
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,832.0,1.00%,F,T)



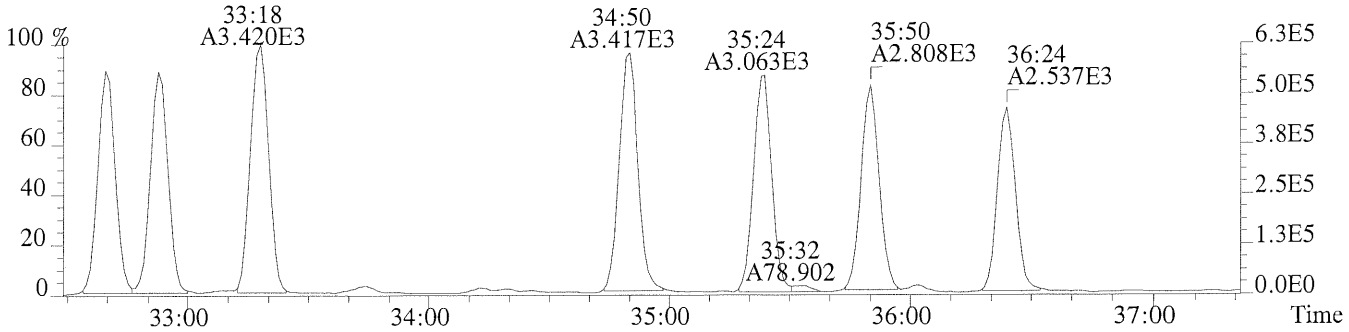
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST gc REVIEWER
11/23/11 11/27/11

File:U142147 #1-312 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

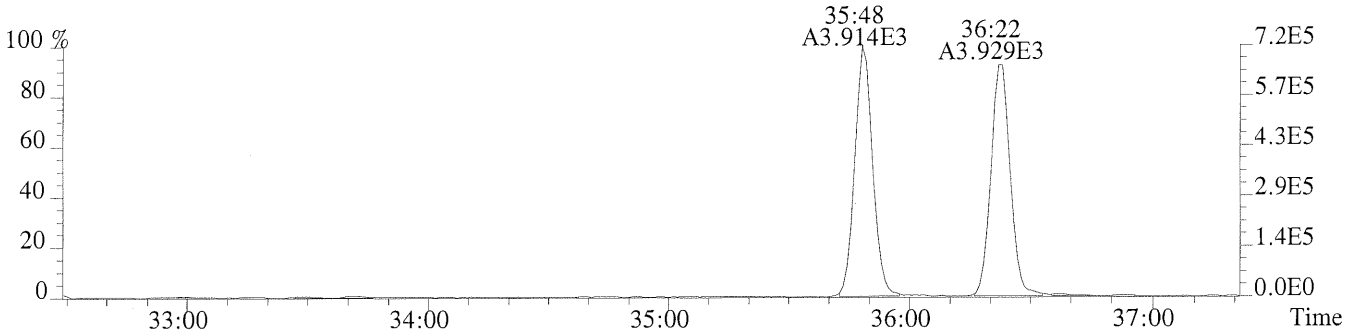
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3752.0,1.00%,F,T)



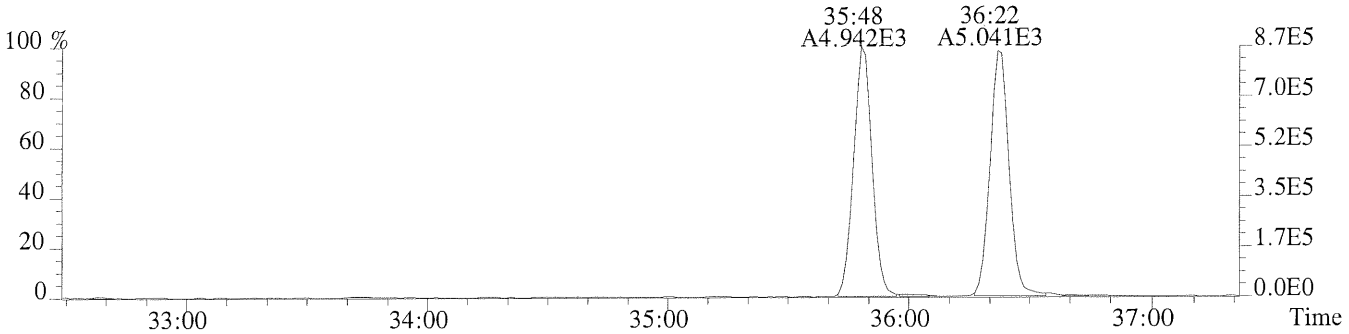
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9392.0,1.00%,F,T)



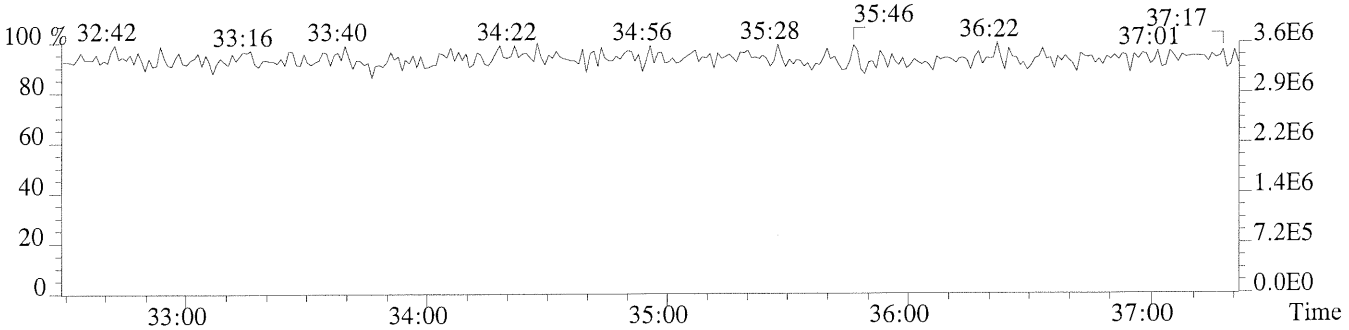
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1412.0,1.00%,F,T)



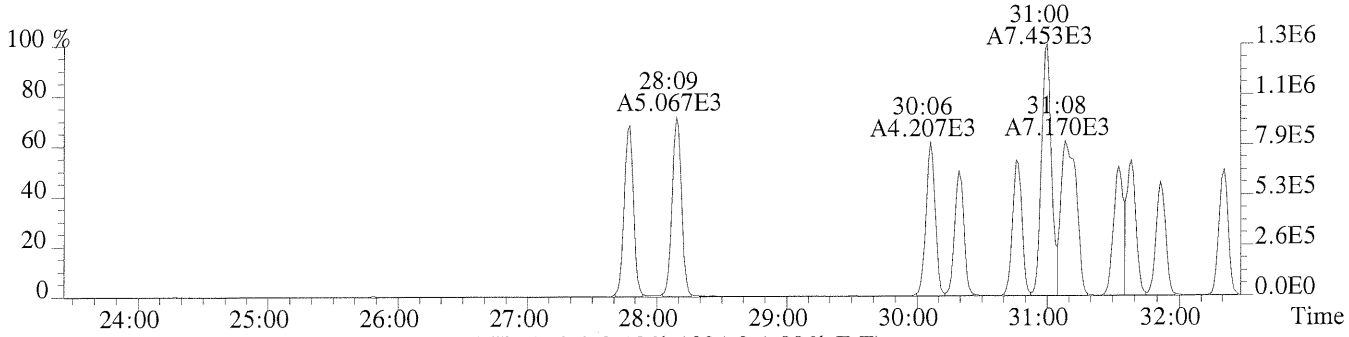
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1436.0,1.00%,F,T)



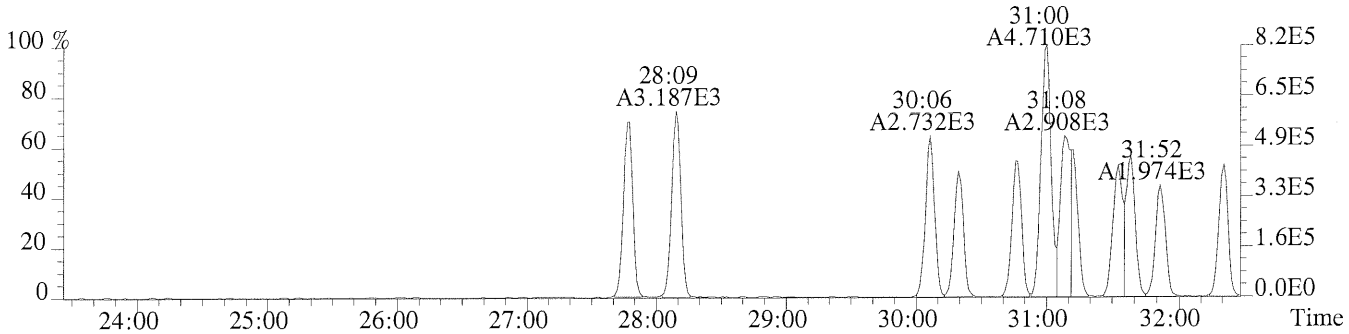
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



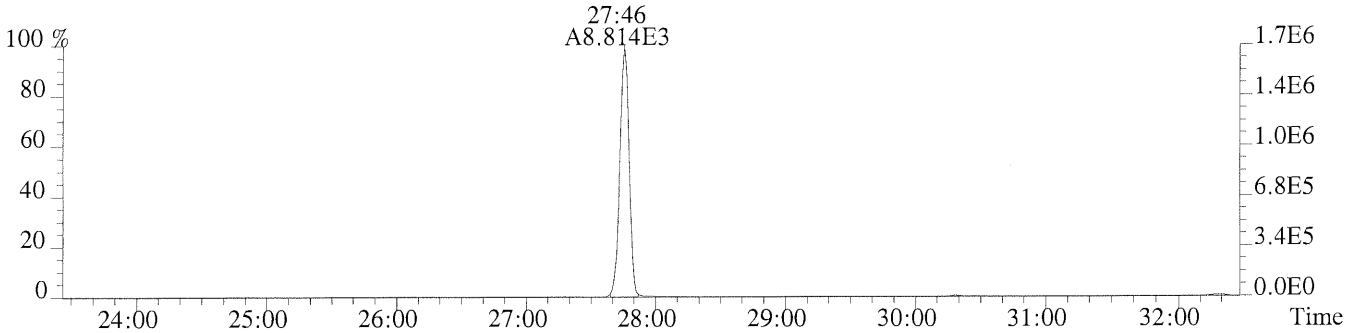
File:U142147 #1-578 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



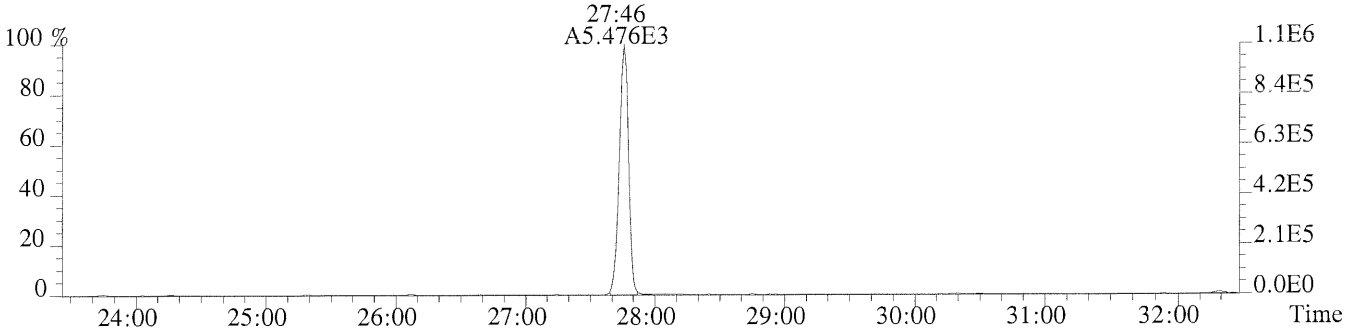
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)



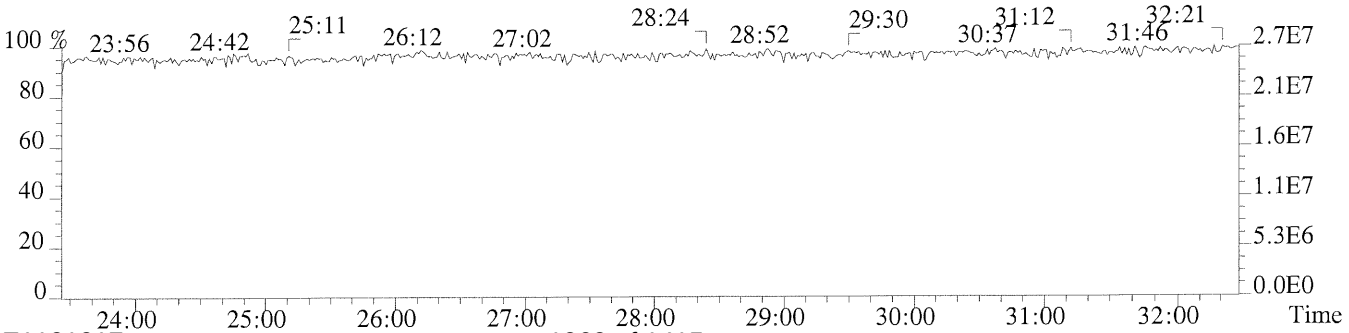
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1012.0,1.00%,F,T)



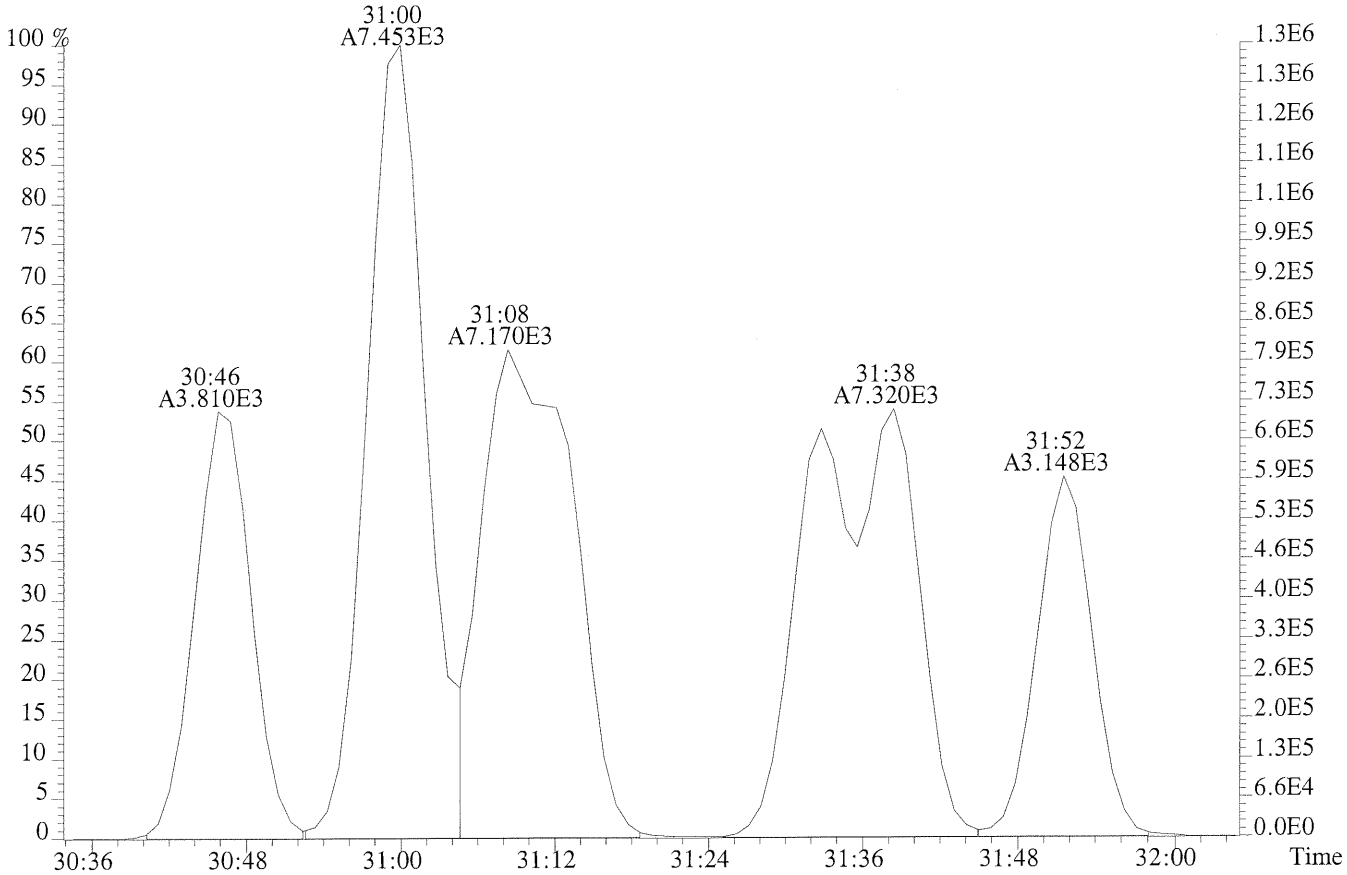
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,928.0,1.00%,F,T)



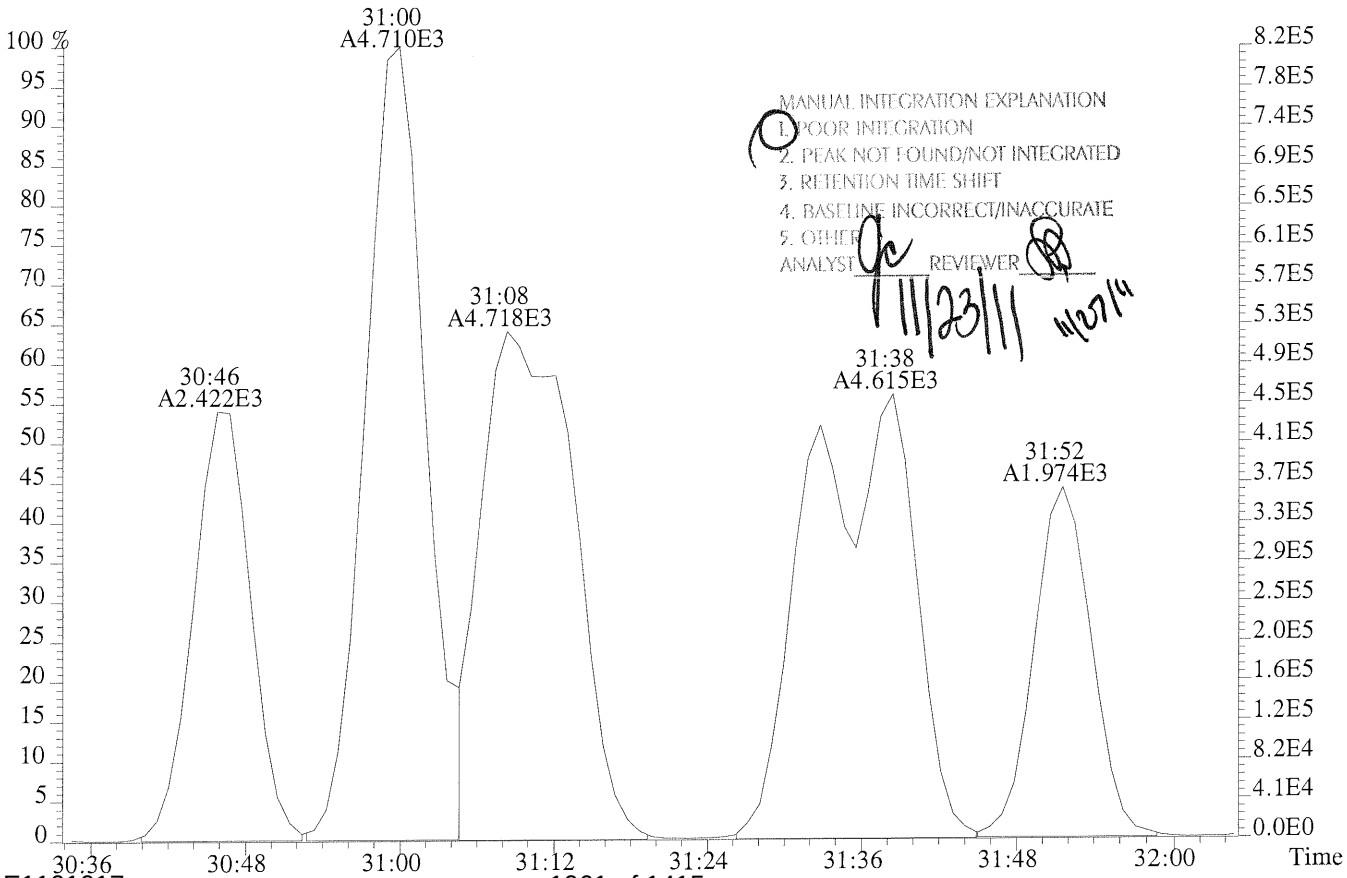
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142147 #1-578 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)

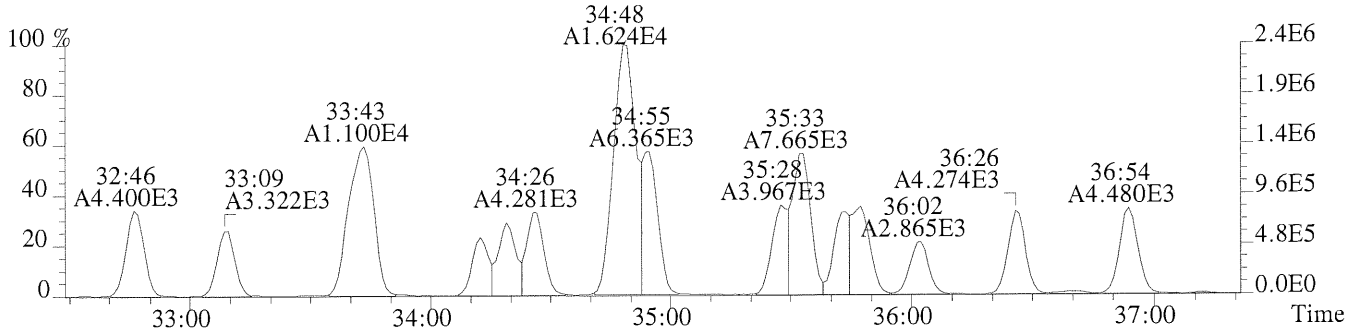


327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1024.0,1.00%,F,T)

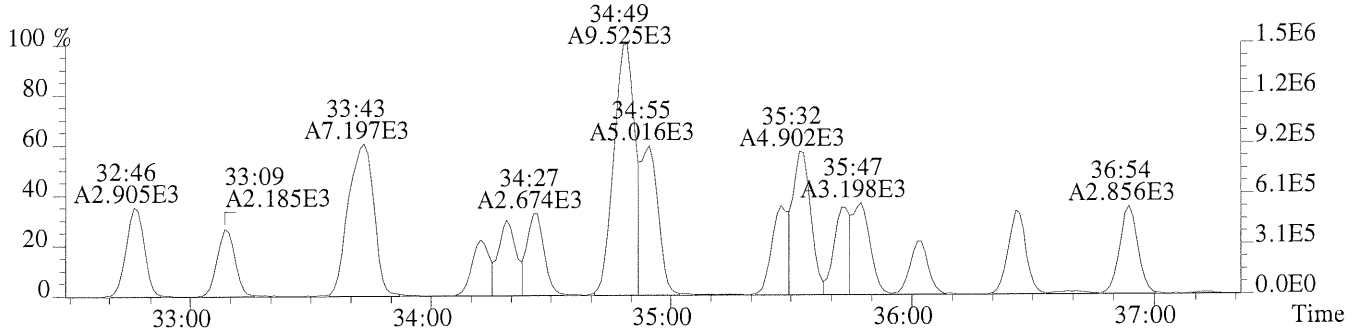


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST REVIEWER
11/23/11 11/27/11

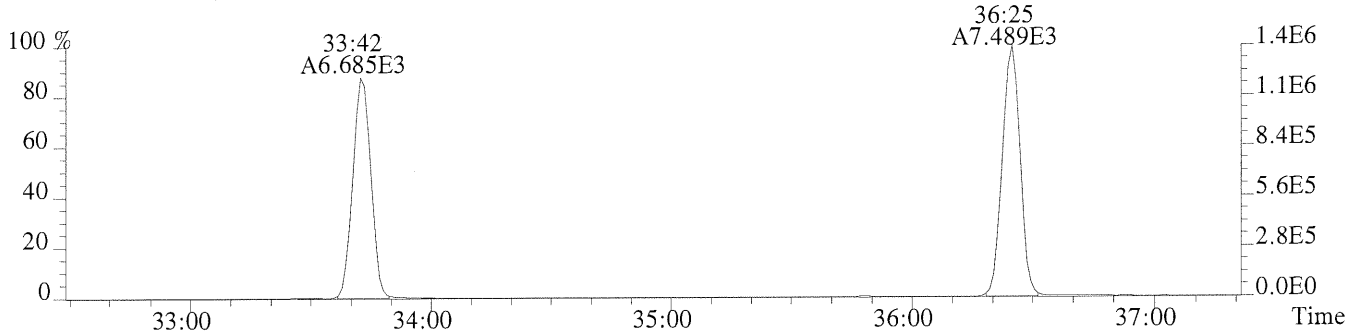
File:U142147 #1-312 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3848.0,1.00%,F,T)



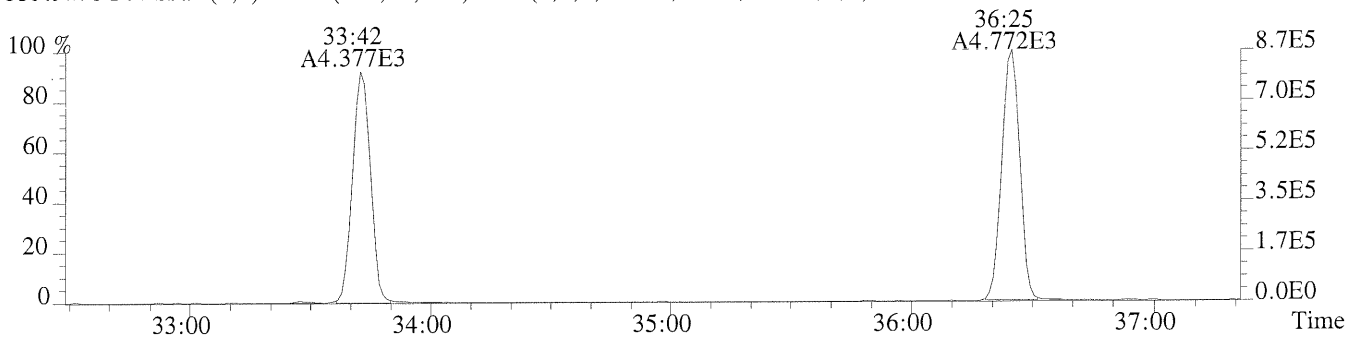
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1768.0,1.00%,F,T)



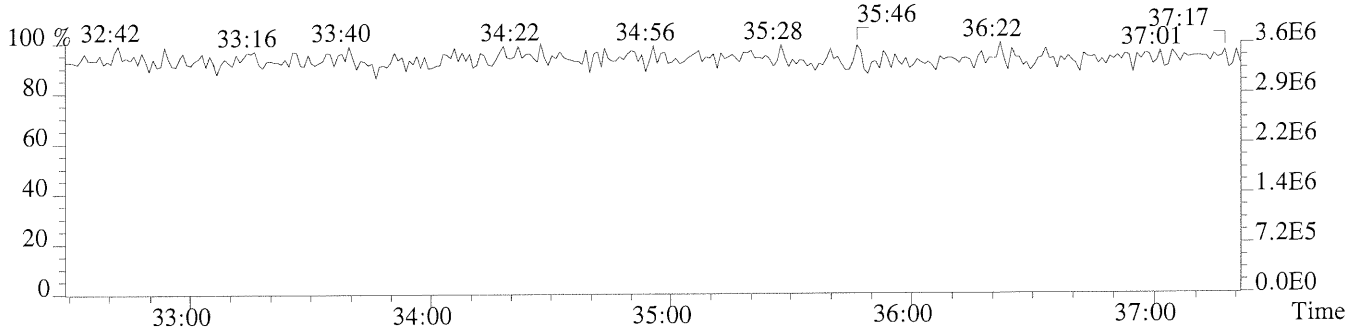
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,824.0,1.00%,F,T)



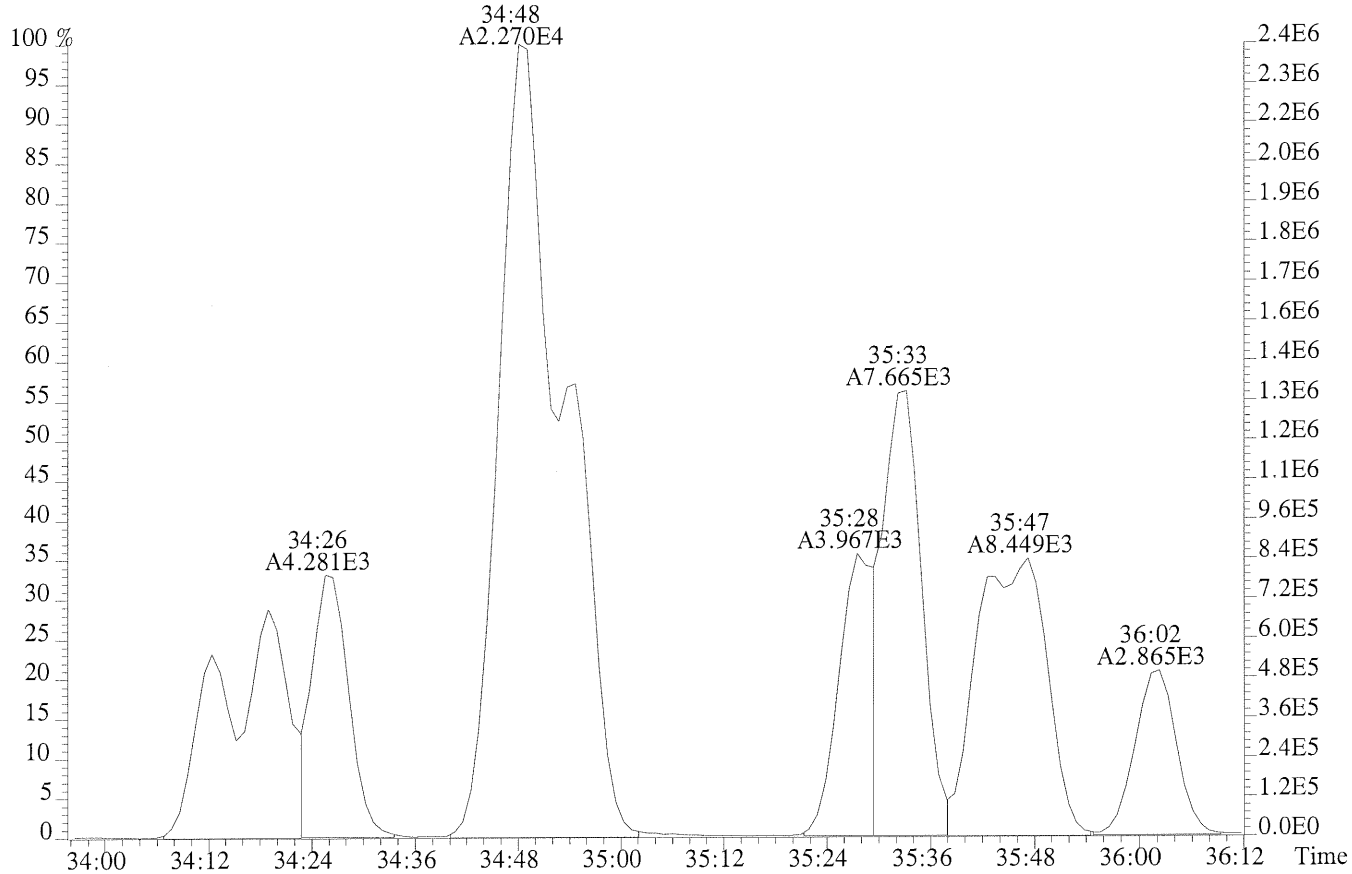
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



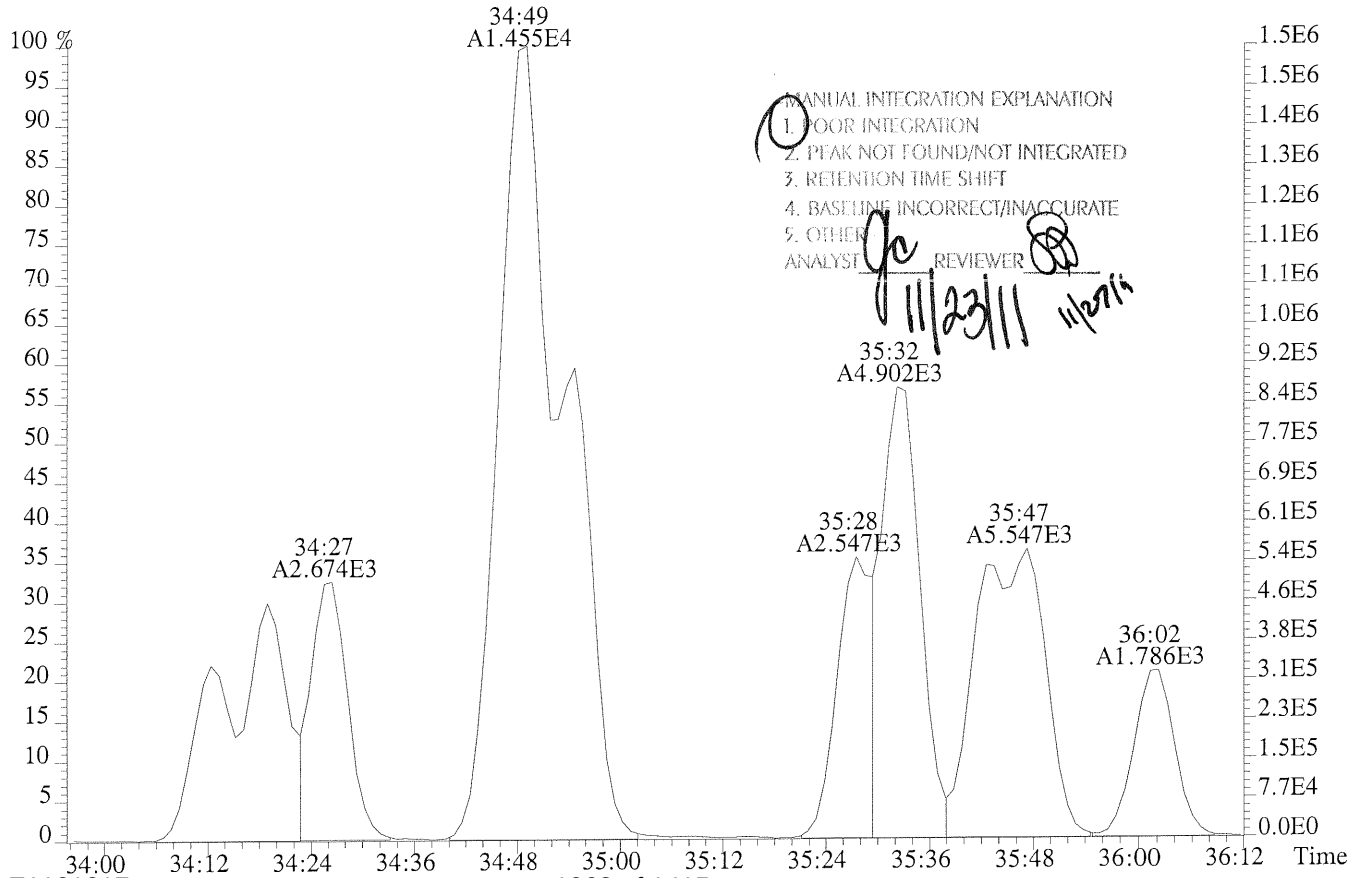
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142147 #1-312 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3848.0,1.00%,F,T)

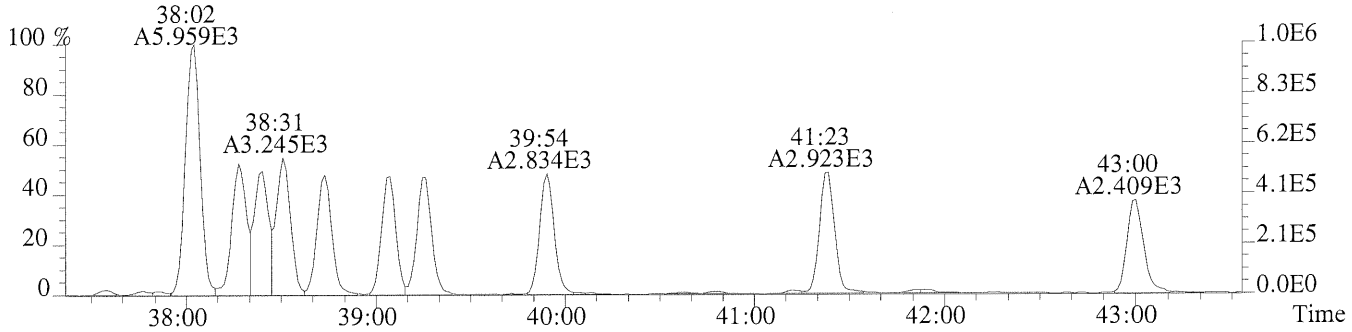


327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1768.0,1.00%,F,T)

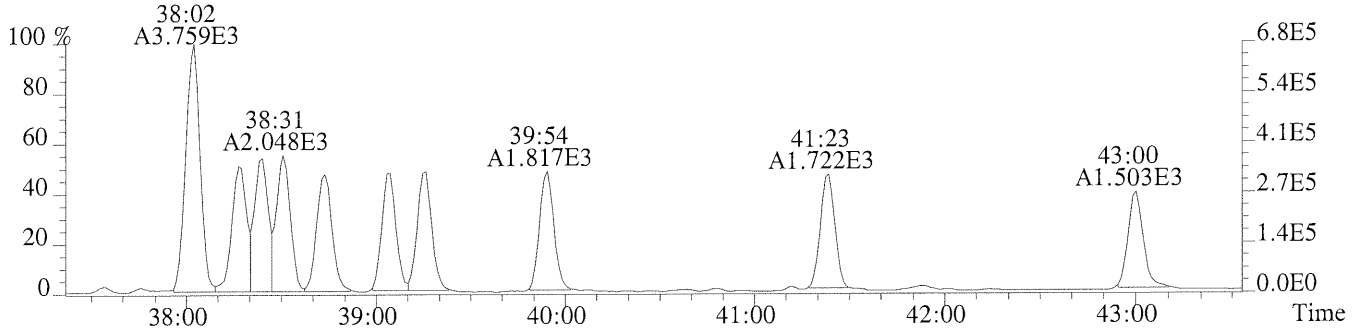


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Jc 11/23/11 REVIEWER 11/27/11

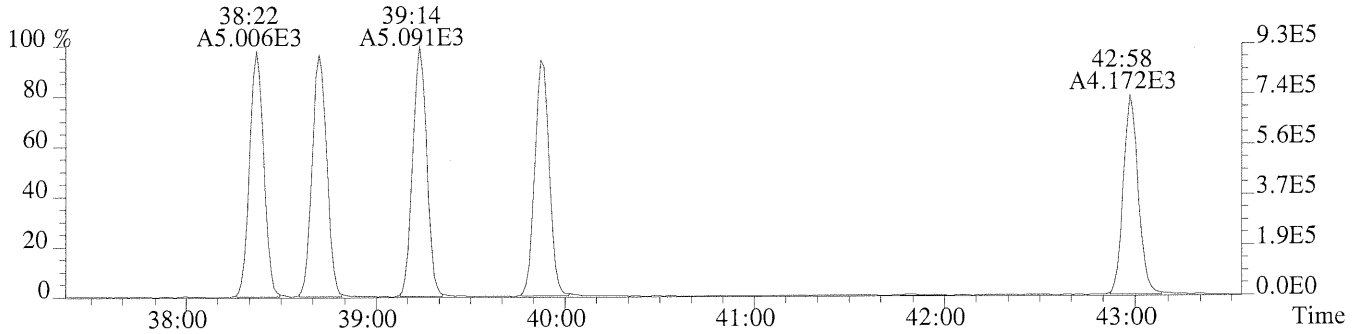
File:U142147 #1-396 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2324.0,1.00%,F,T)



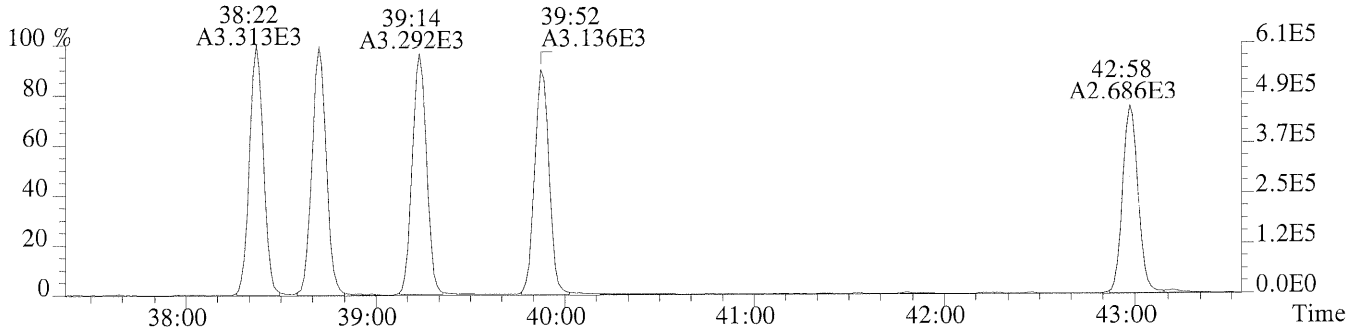
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10736.0,1.00%,F,T)



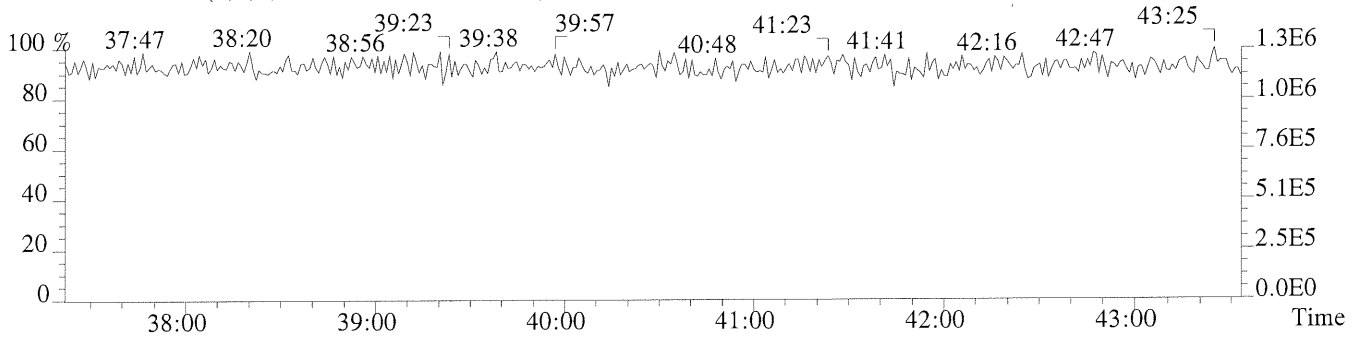
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1964.0,1.00%,F,T)



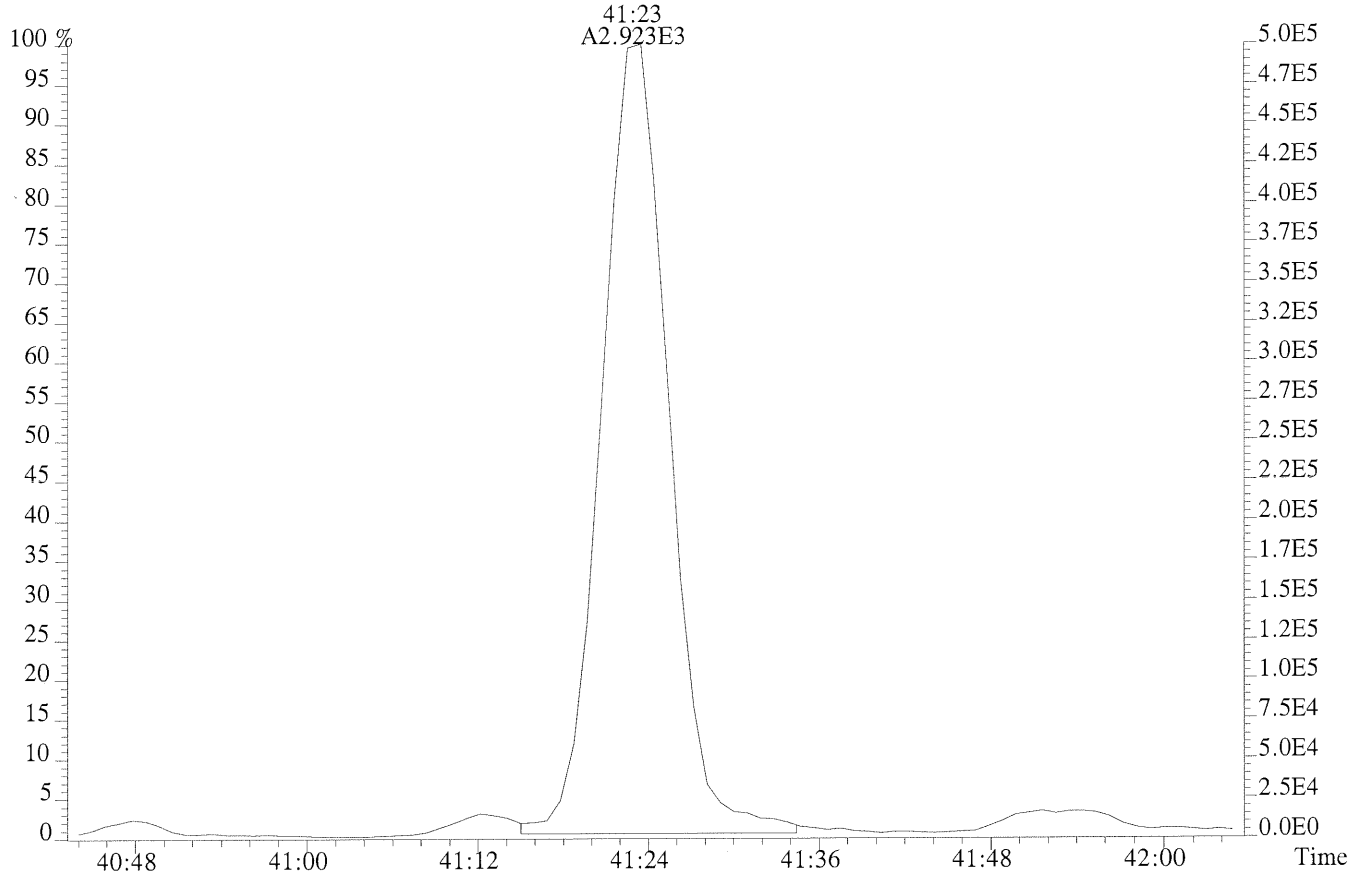
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



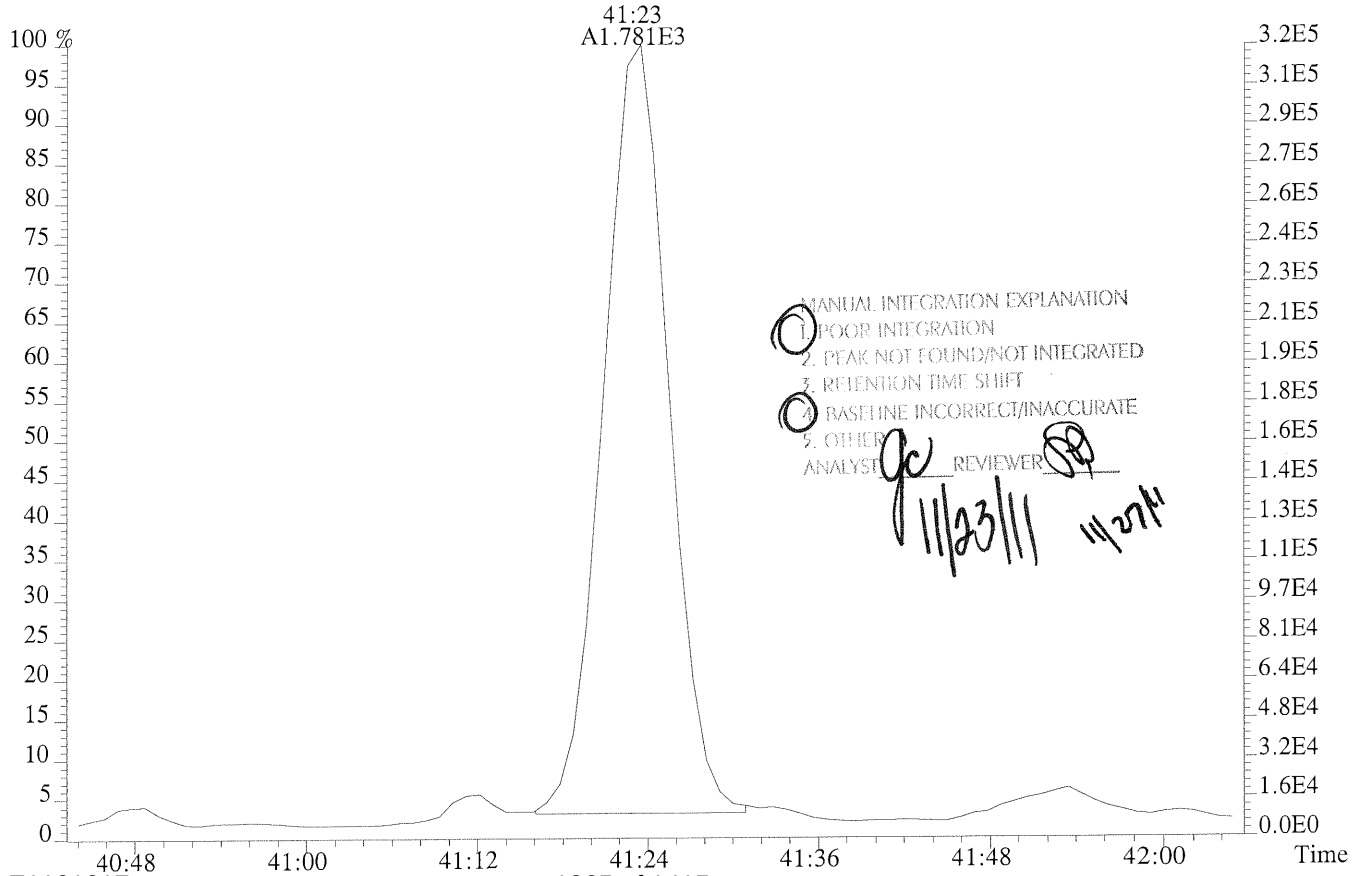
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142147 #1-396 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2324.0,1.00%,F,T)



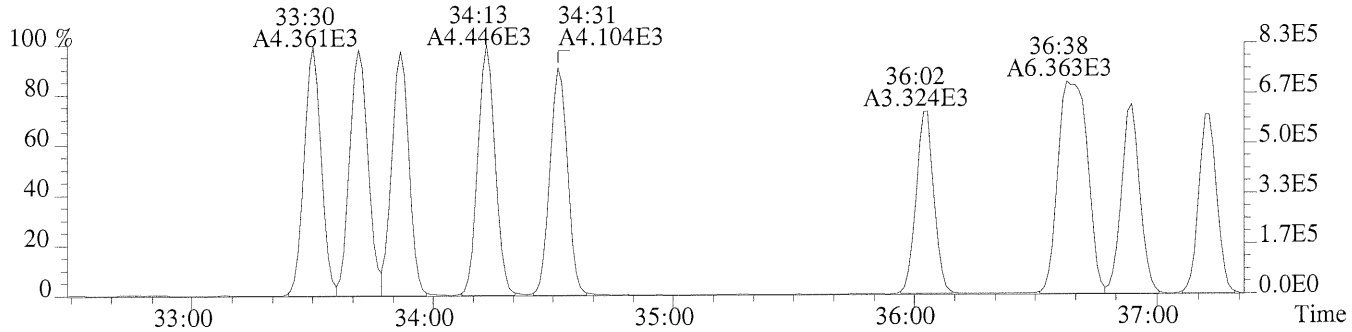
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10736.0,1.00%,F,T)



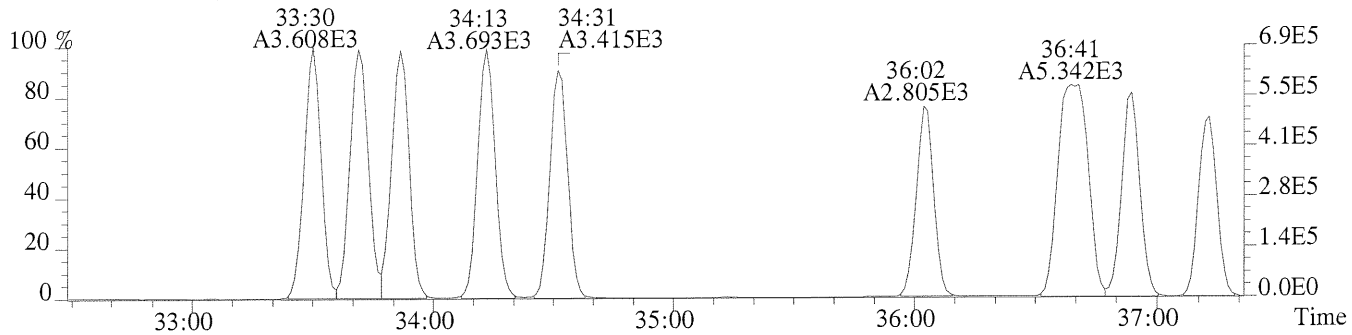
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST gc REVIEWER
11/23/11 11/27/11

File:U142147 #1-312 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

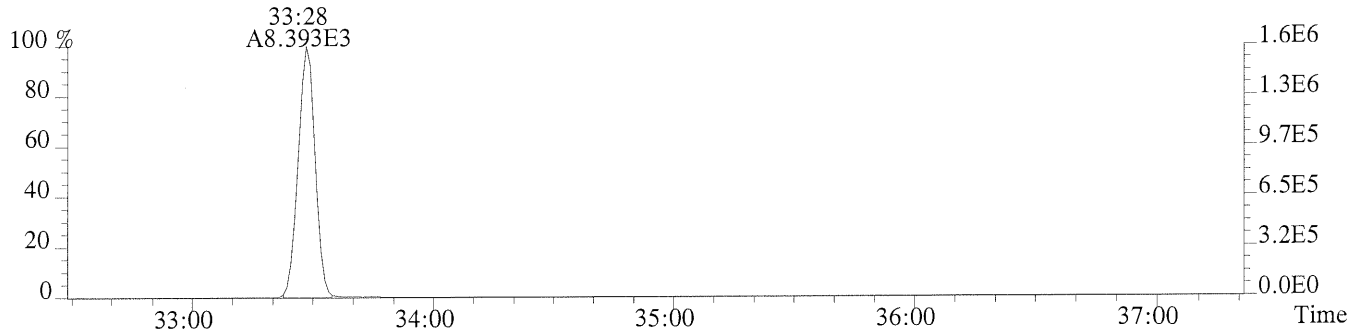
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1296.0,1.00%,F,T)



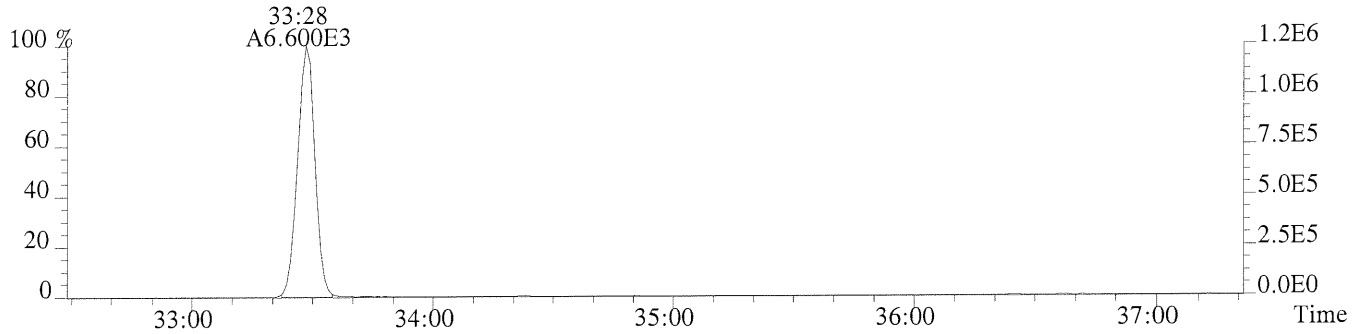
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1240.0,1.00%,F,T)



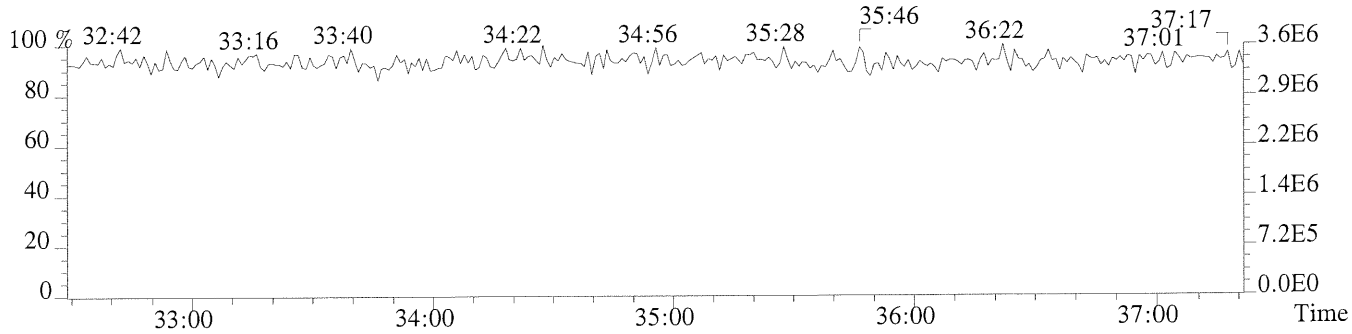
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1444.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)

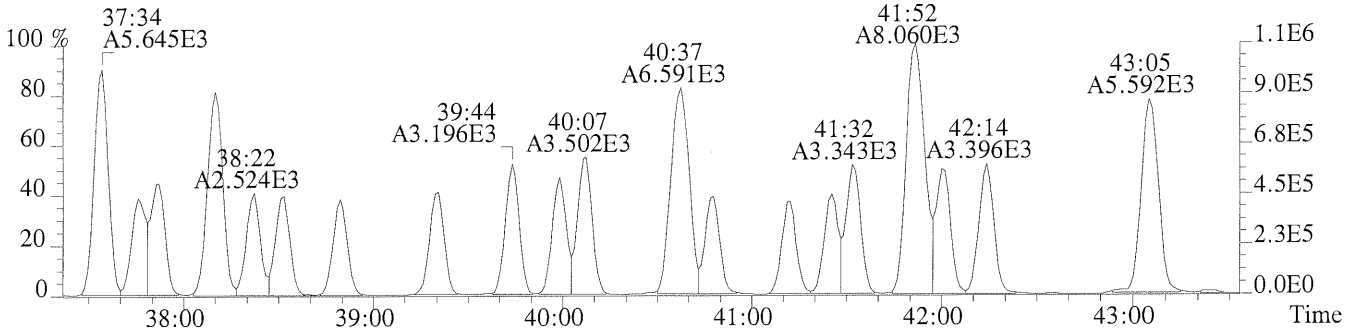


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

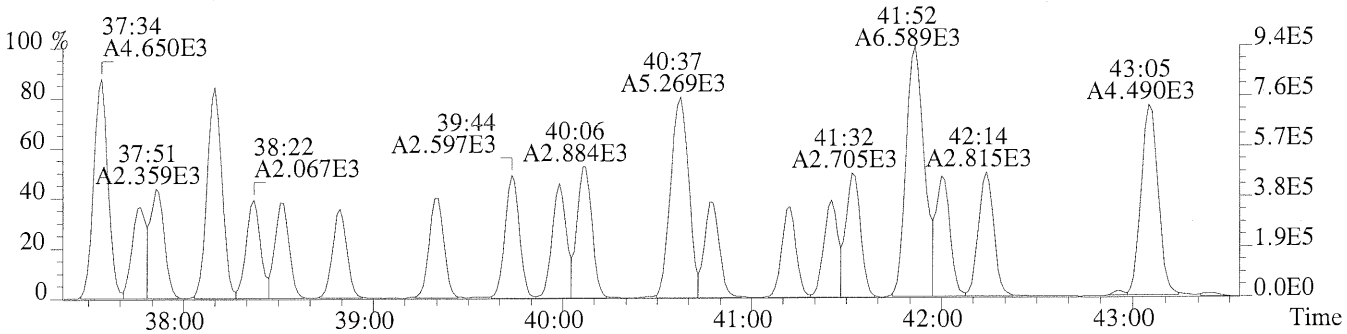


File:U142147 #1-396 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

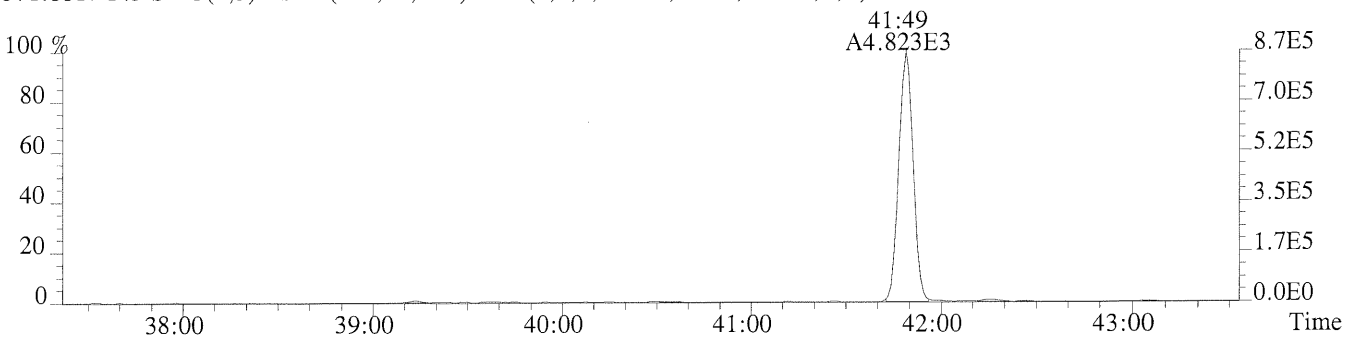
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6008.0,1.00%,F,T)



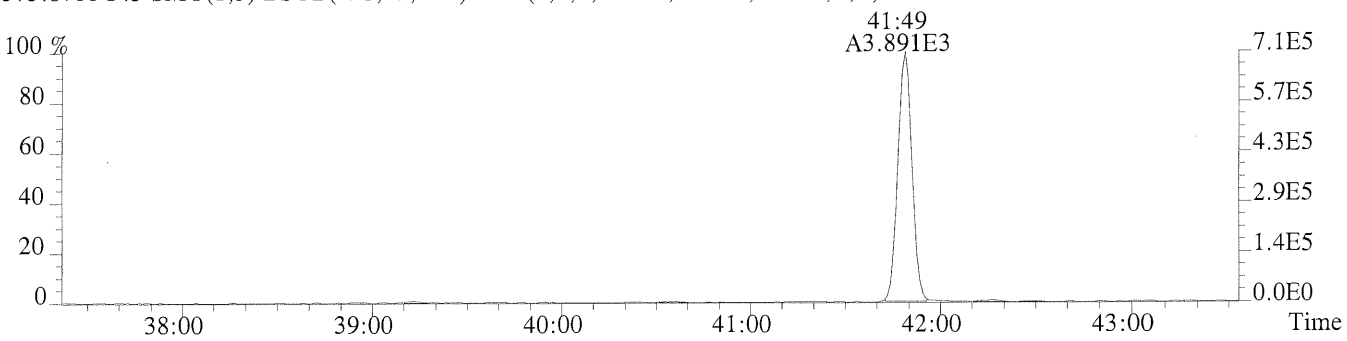
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2696.0,1.00%,F,T)



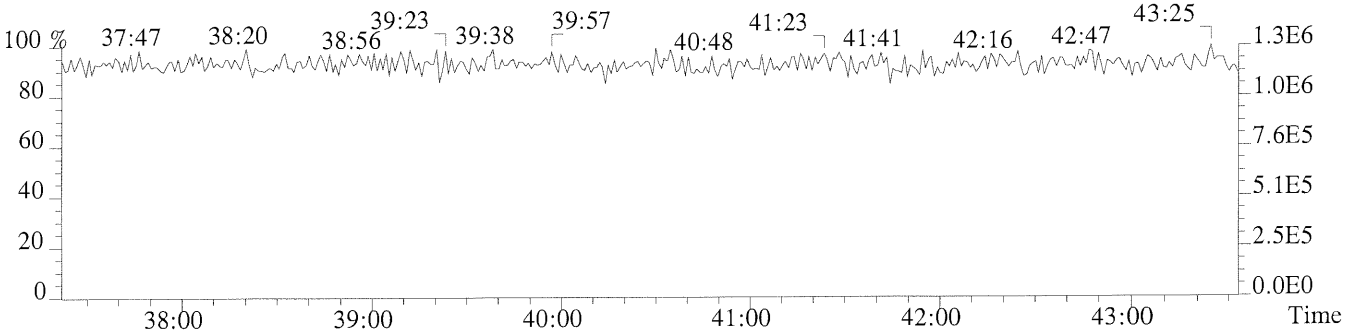
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)

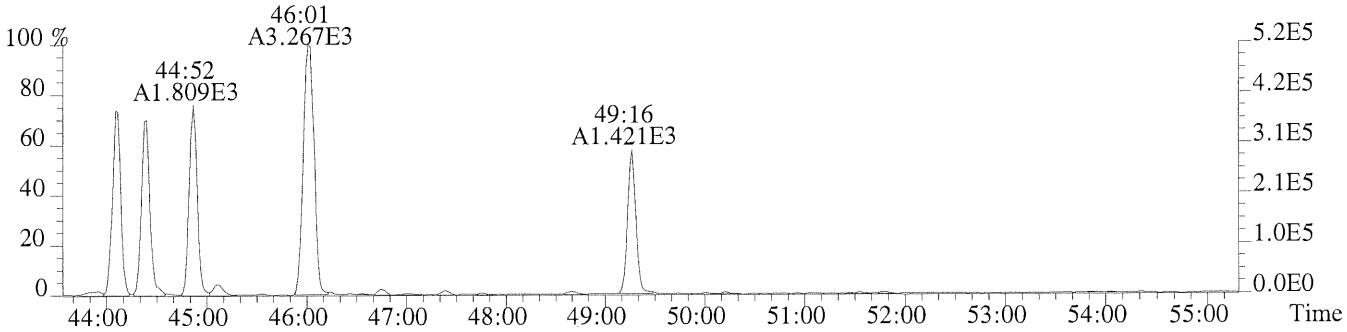


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

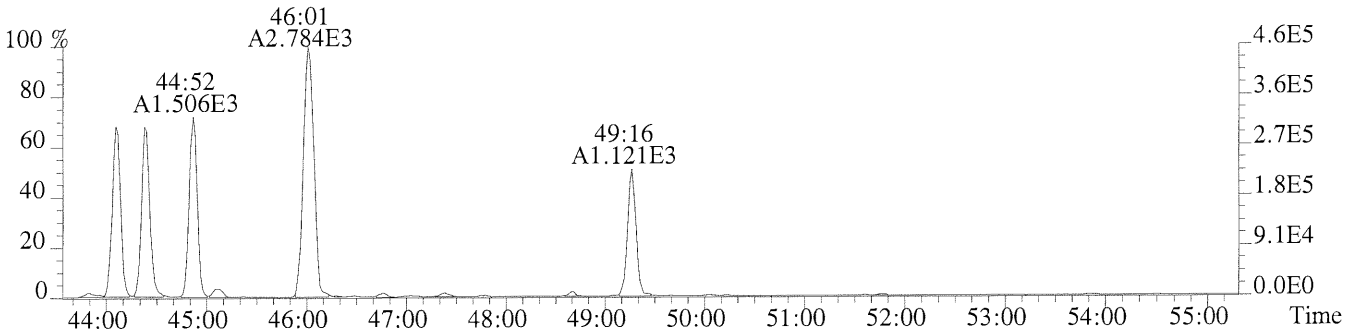


File:U142147 #1-582 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

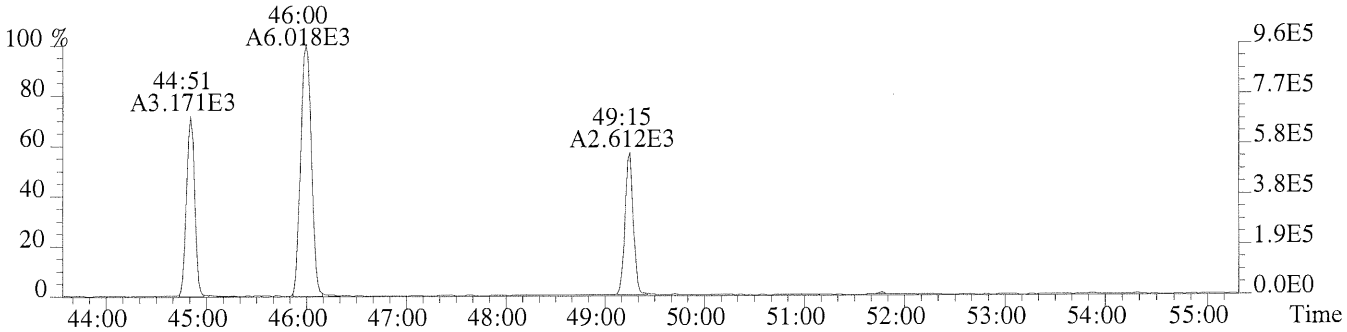
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1160.0,1.00%,F,T)



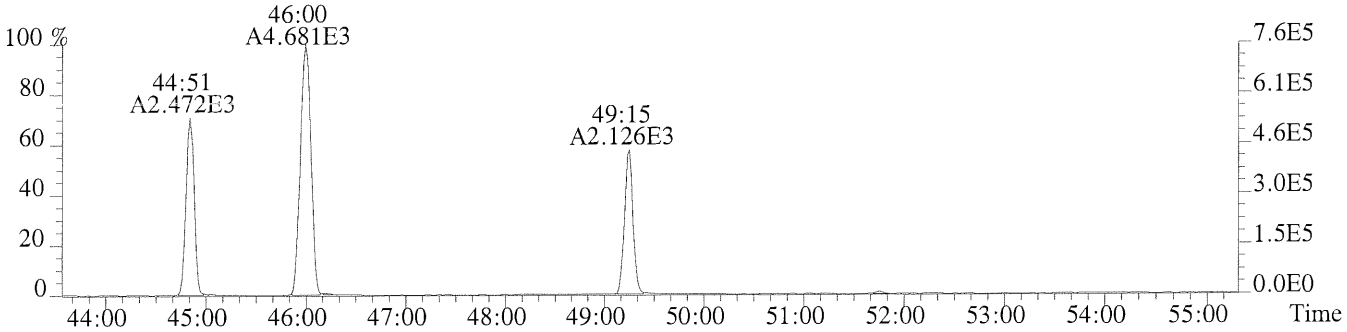
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



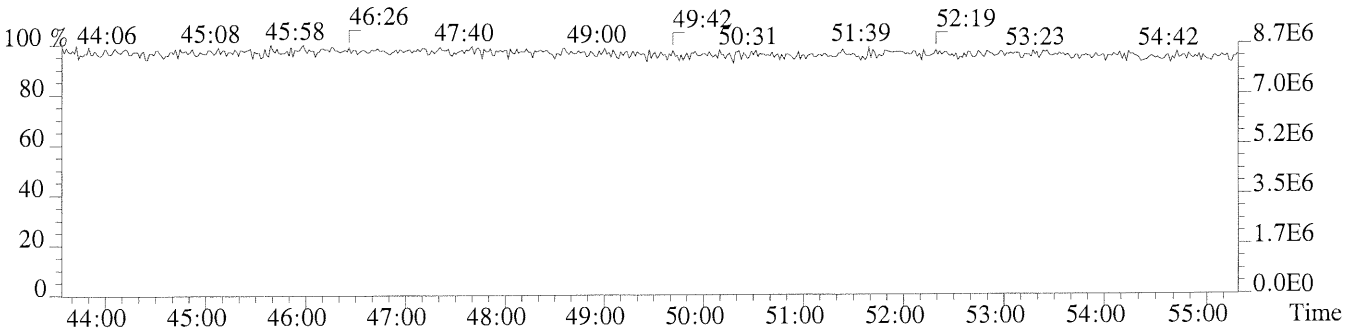
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1920.0,1.00%,F,T)



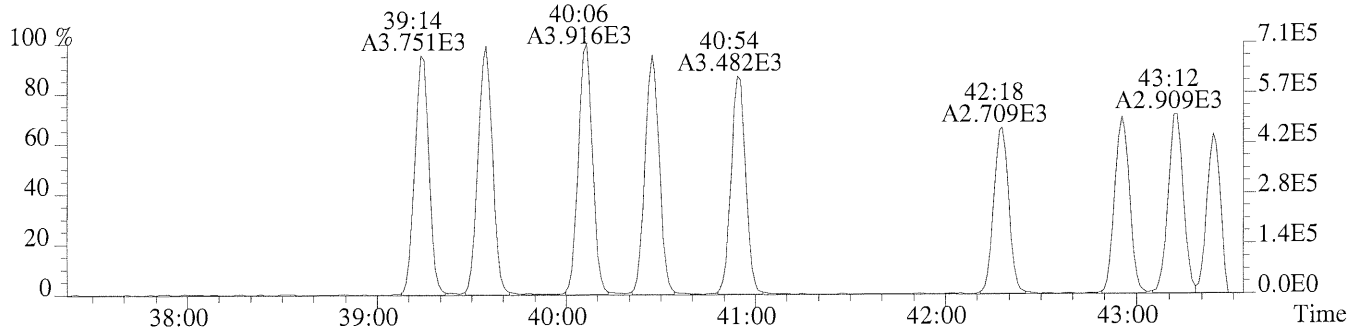
373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1368.0,1.00%,F,T)



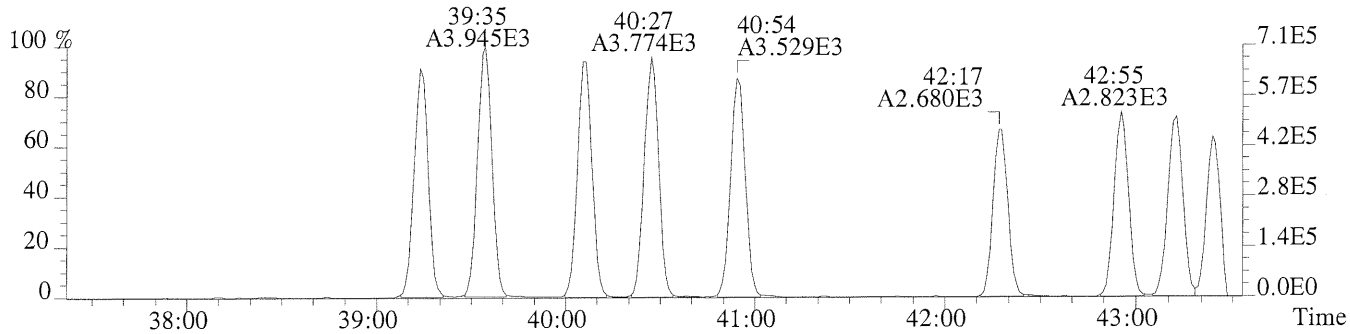
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



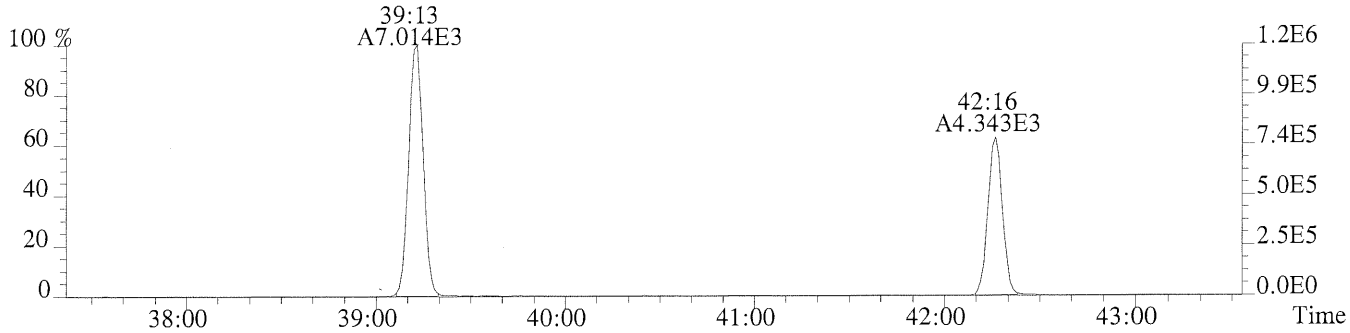
File:U142147 #1-396 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)



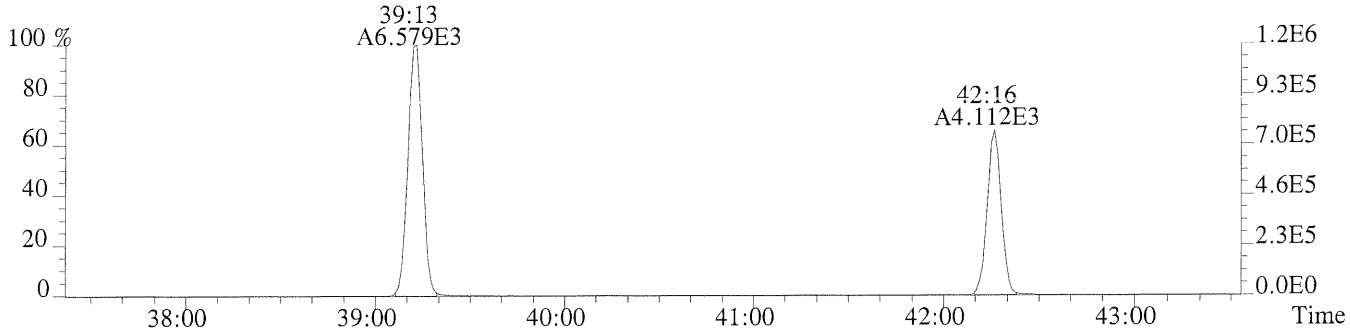
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,732.0,1.00%,F,T)



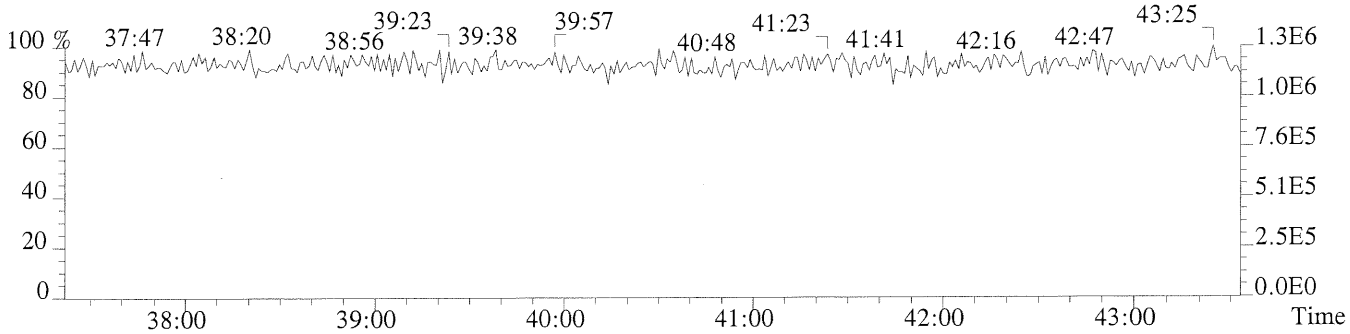
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,580.0,1.00%,F,T)



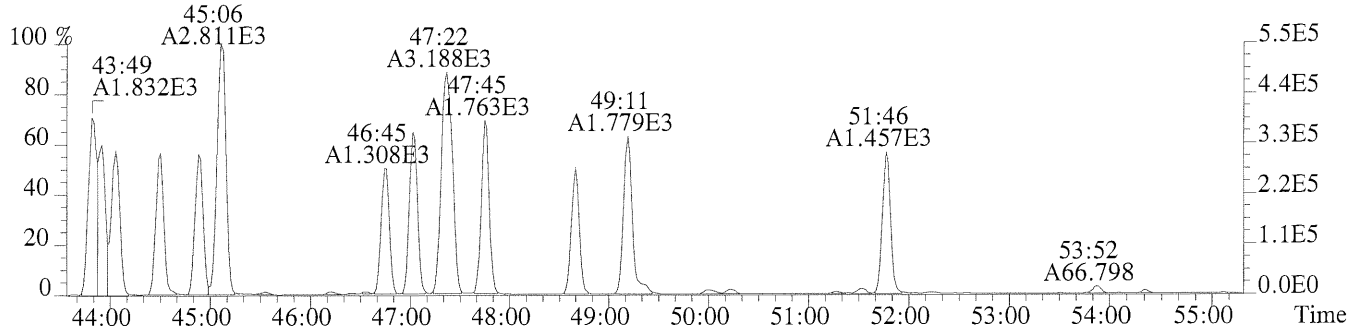
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,692.0,1.00%,F,T)



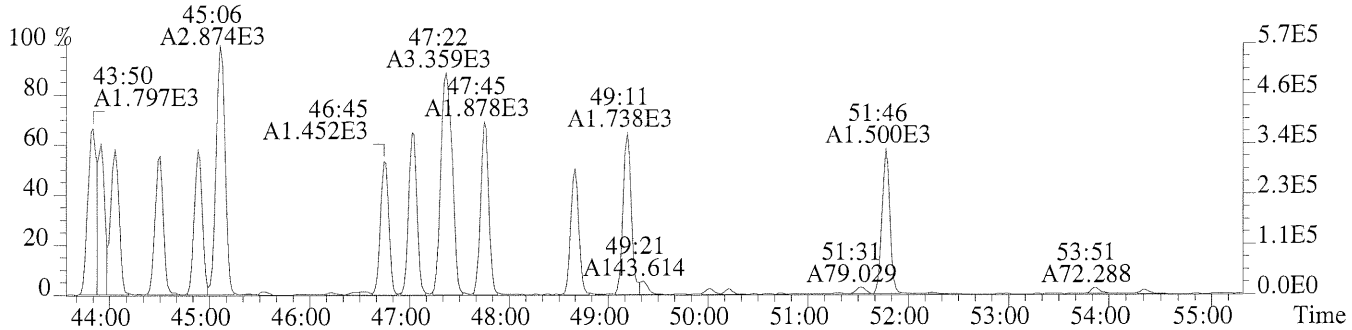
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



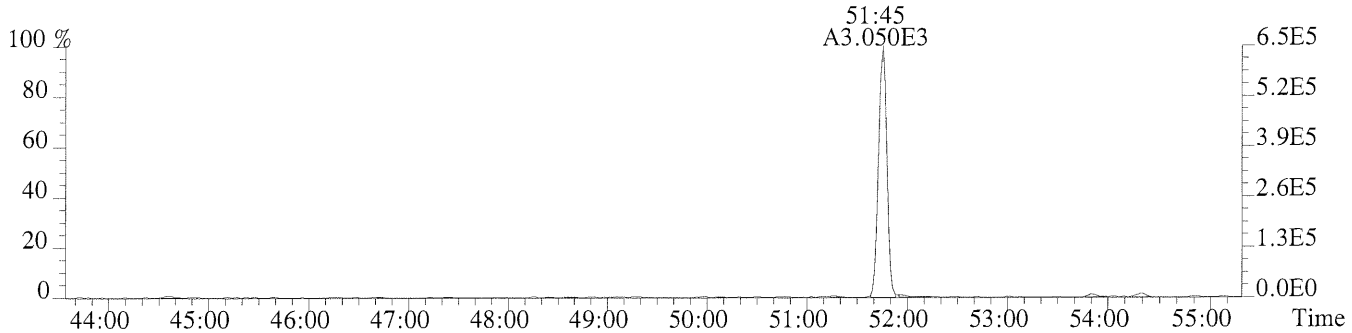
File:U142147 #1-582 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2120.0,1.00%,F,T)



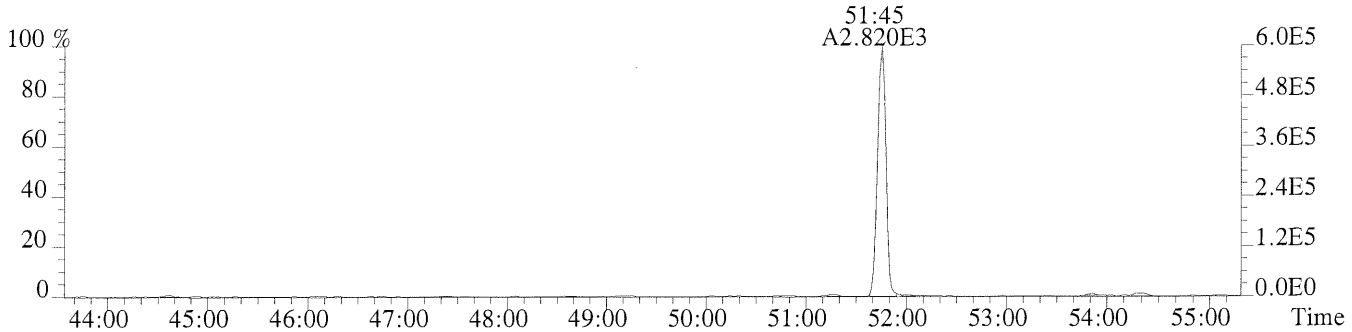
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1116.0,1.00%,F,T)



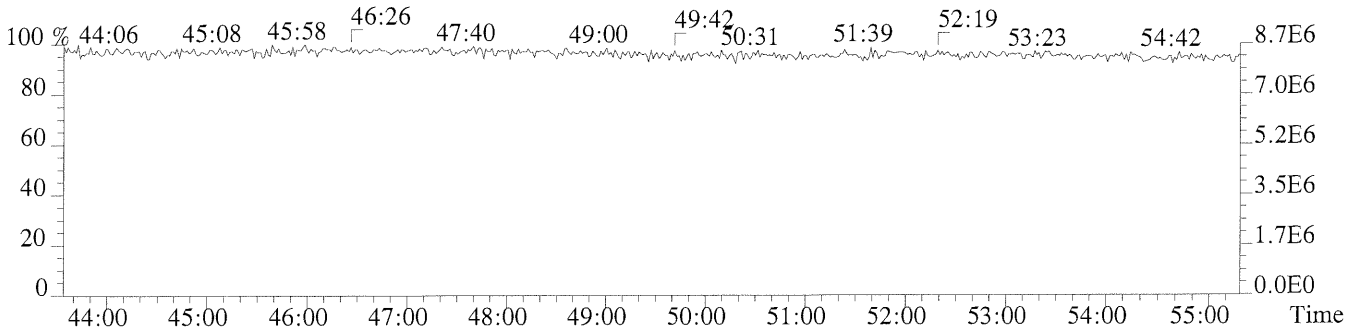
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)



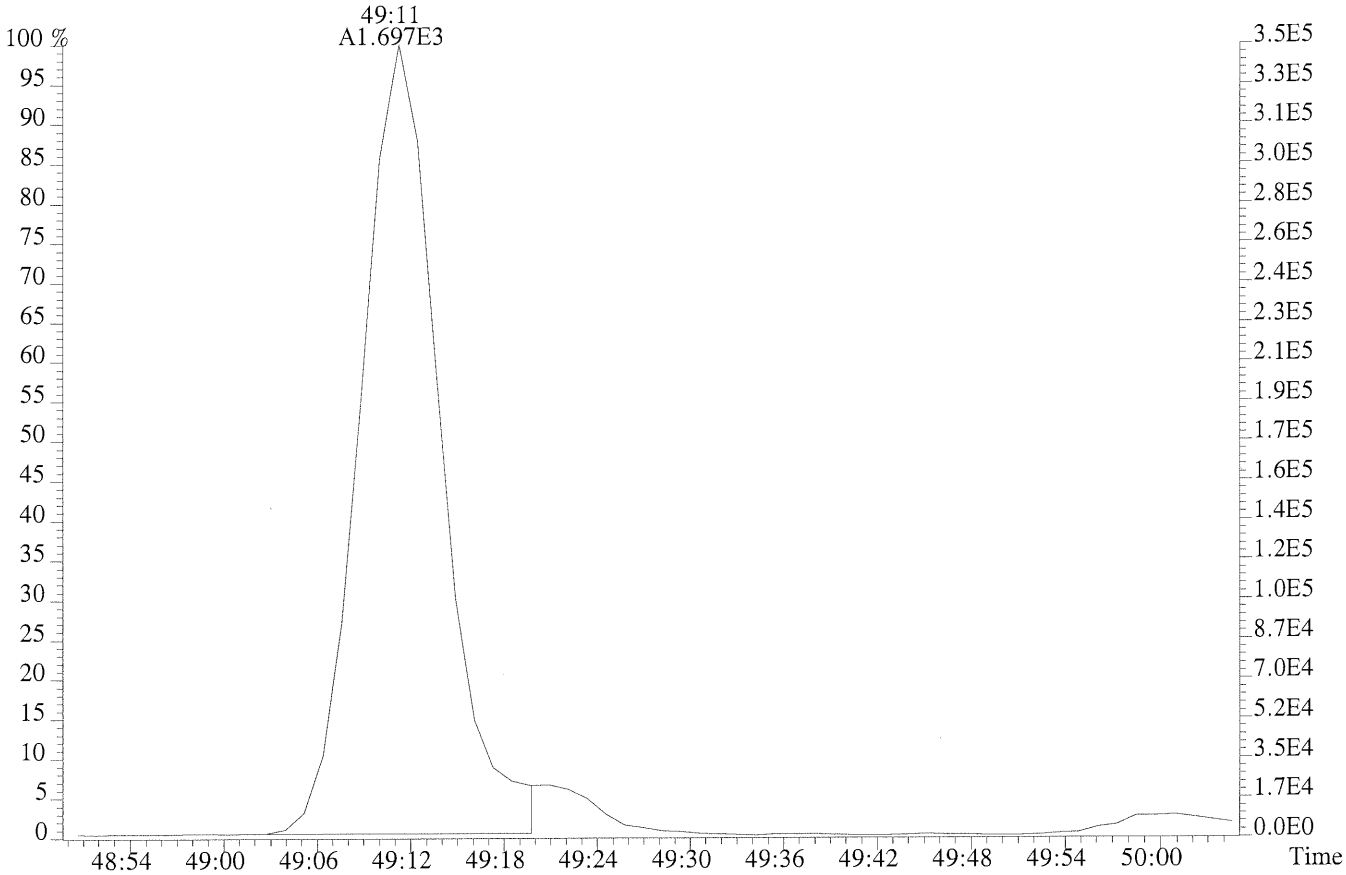
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,668.0,1.00%,F,T)



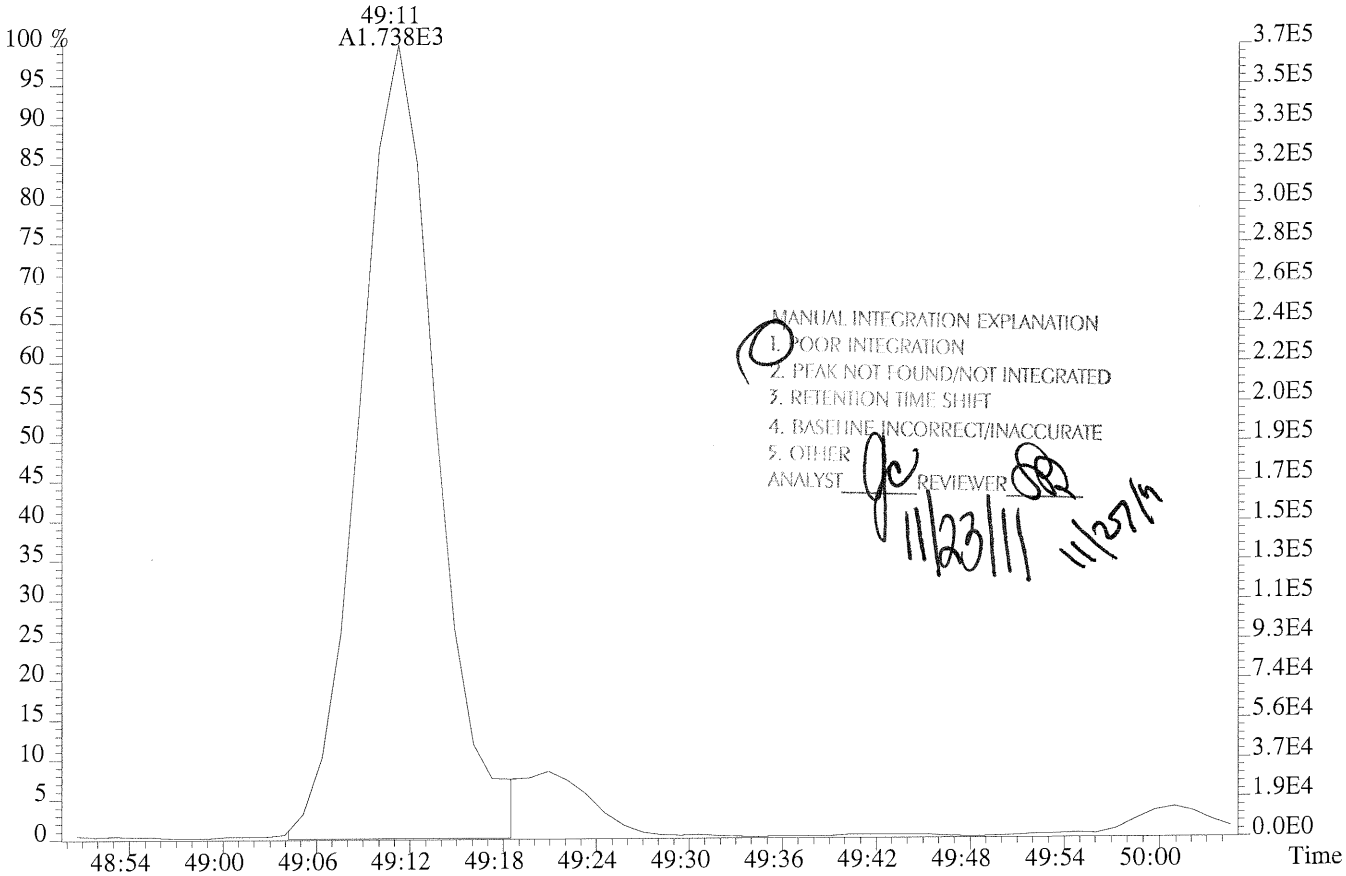
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:U142147 #1-582 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0)



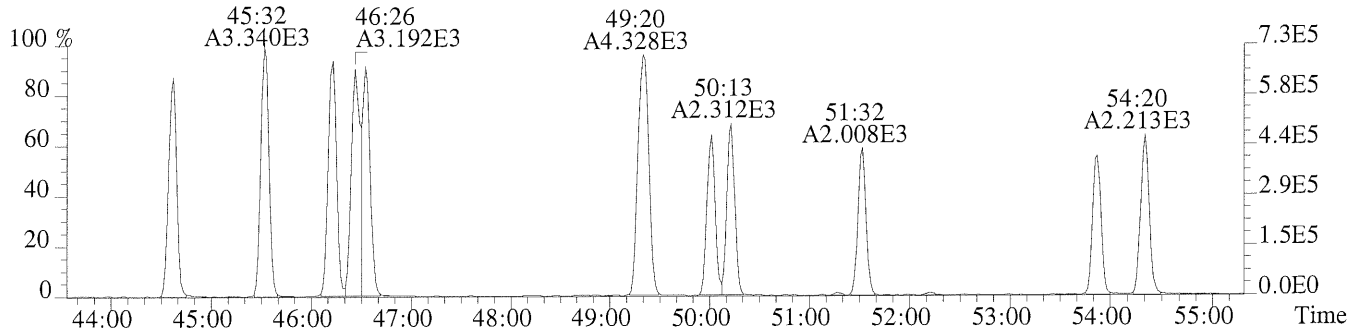
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0)



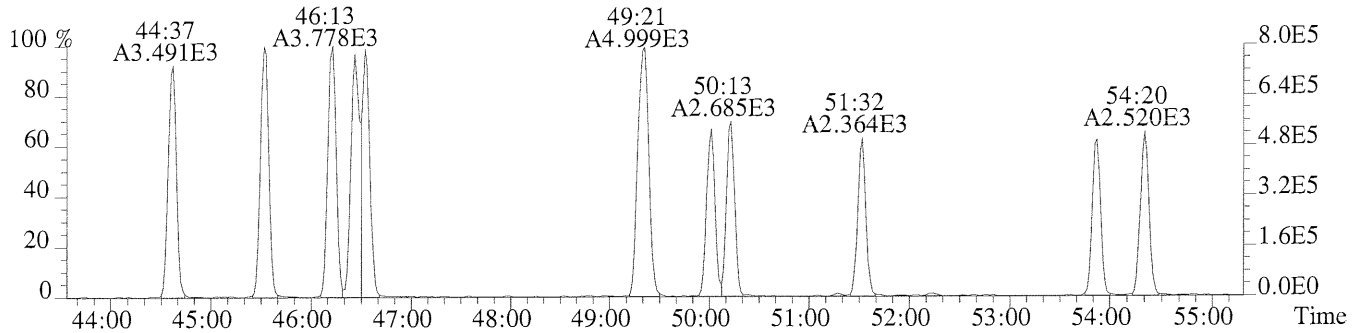
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST JC REVIEWER SR
11/23/11 11/27/11

File:U142147 #1-582 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

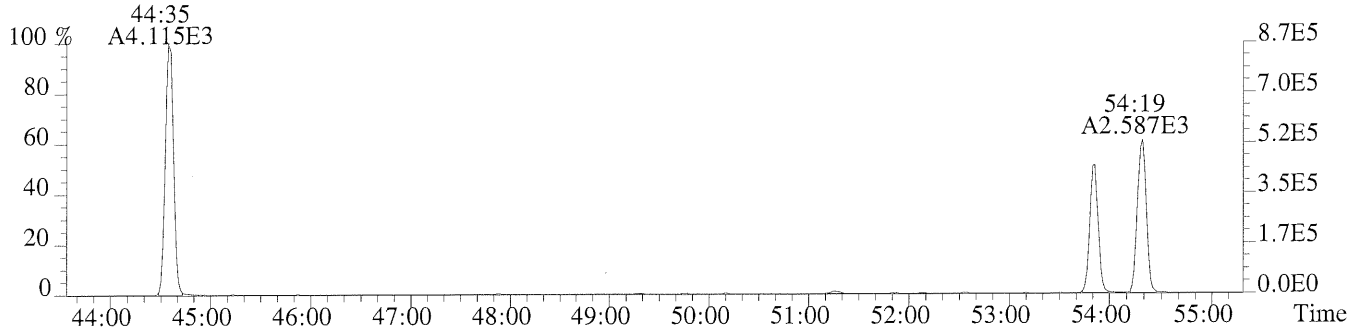
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



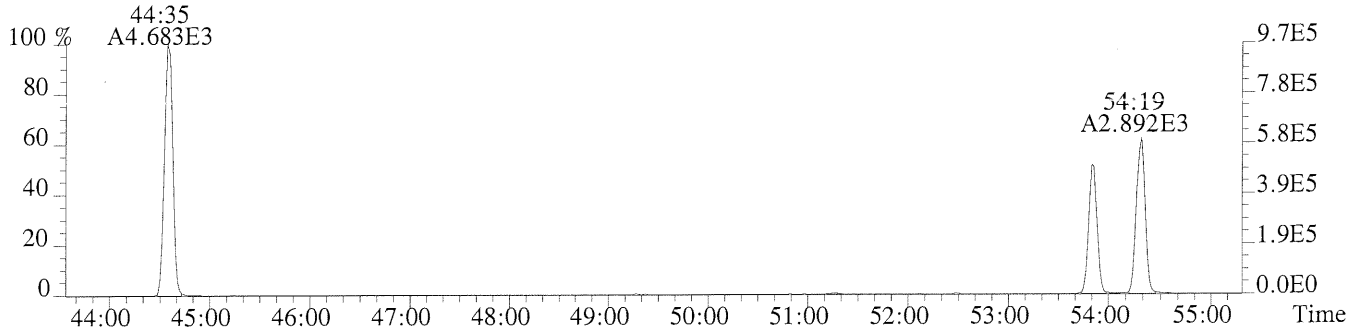
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



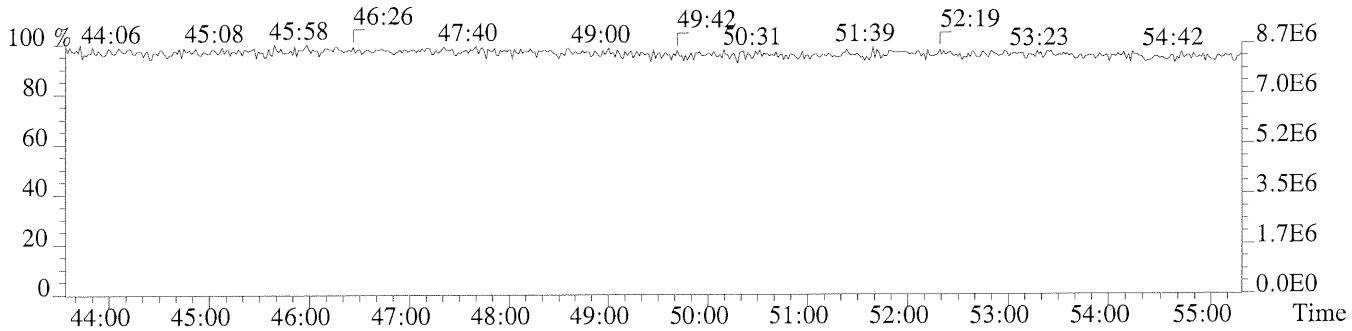
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,T)

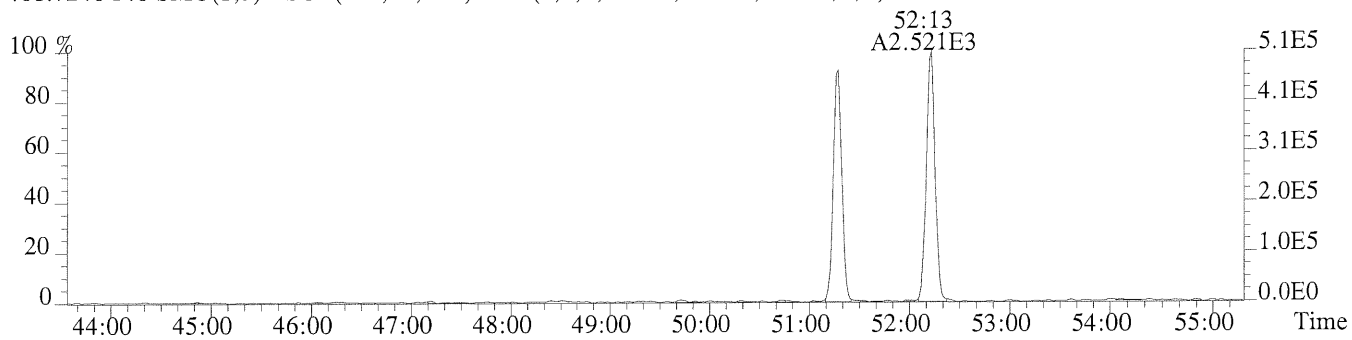


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

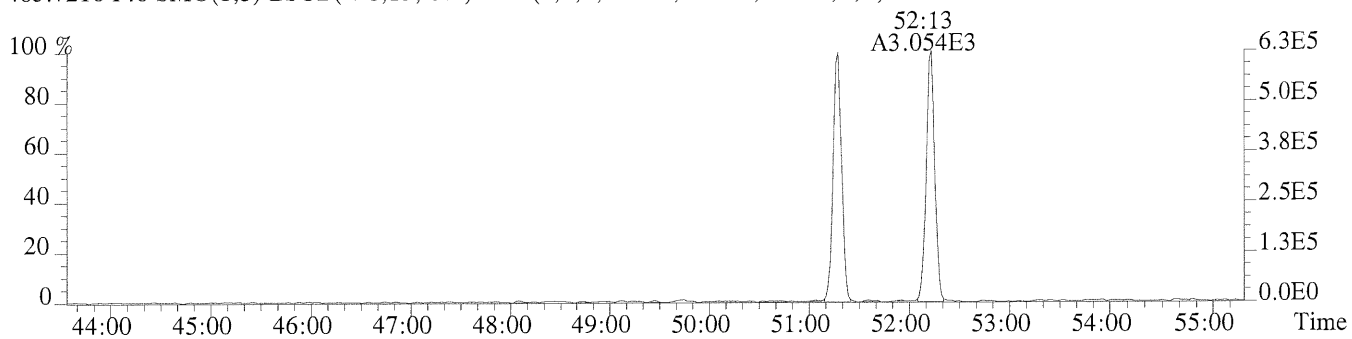


File:U142147 #1-582 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

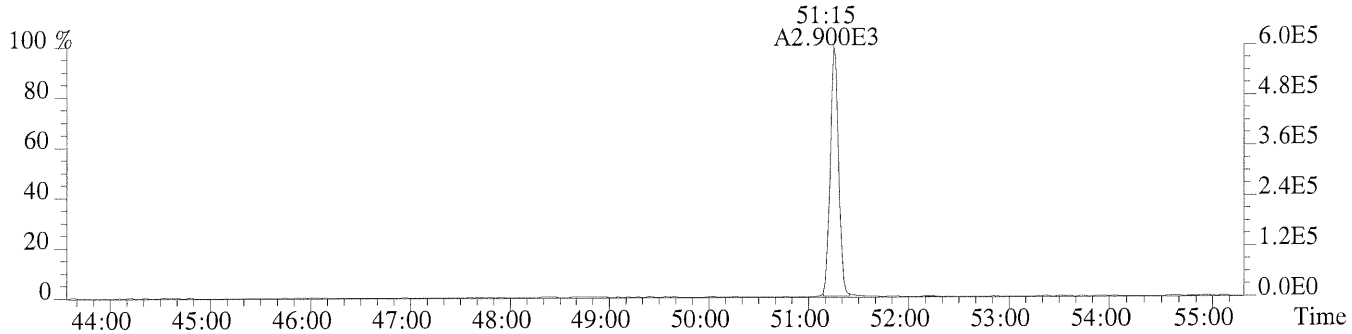
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1584.0,1.00%,F,T)



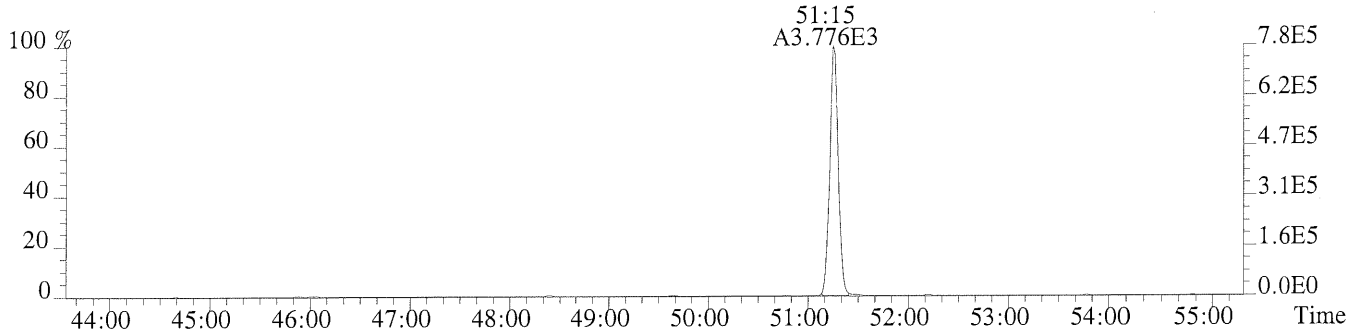
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2592.0,1.00%,F,T)



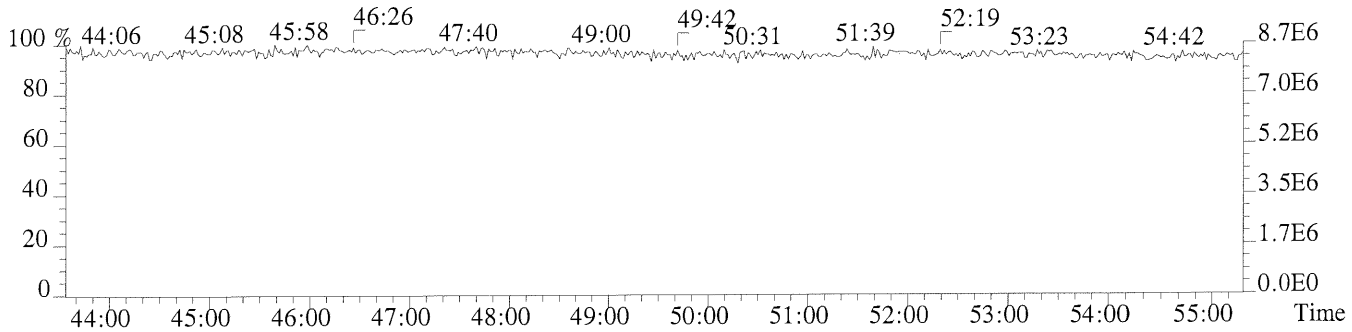
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



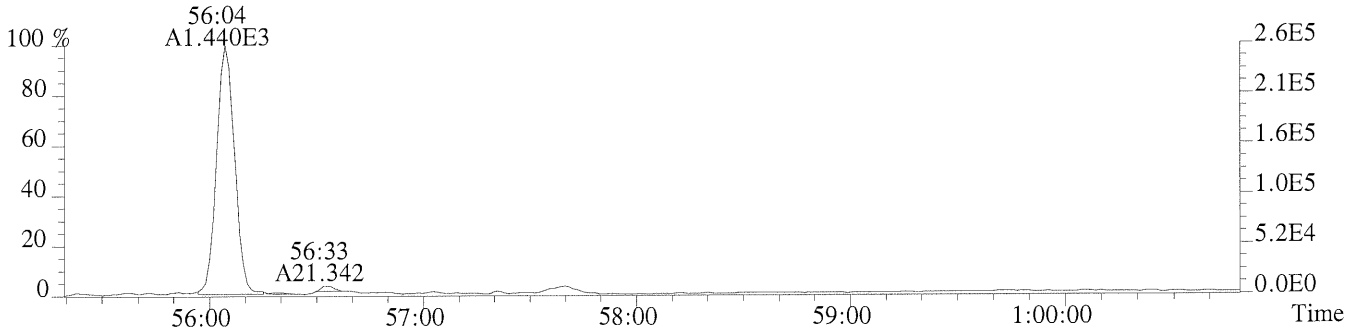
475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,572.0,1.00%,F,T)



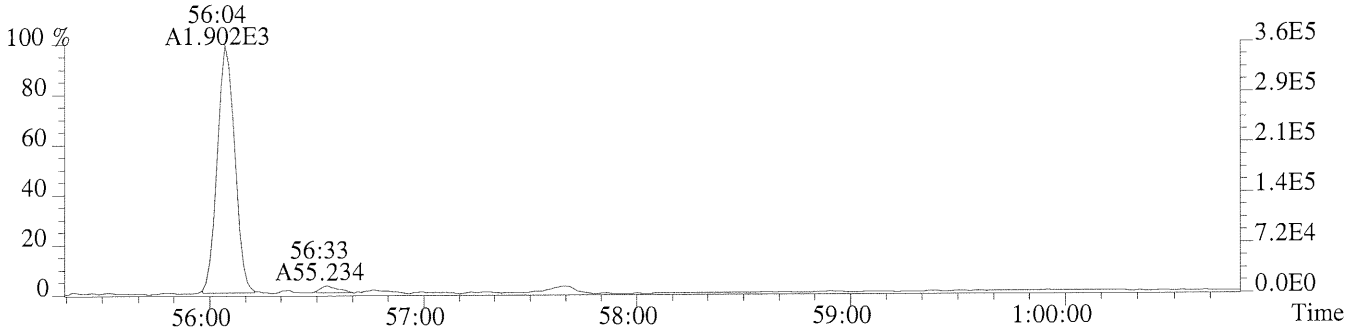
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



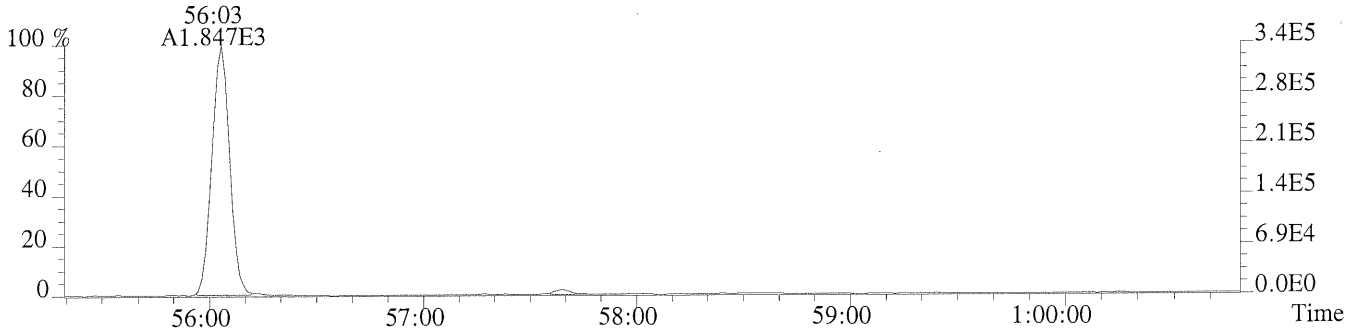
File:U142147 #1-310 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3224.0,1.00%,F,T)



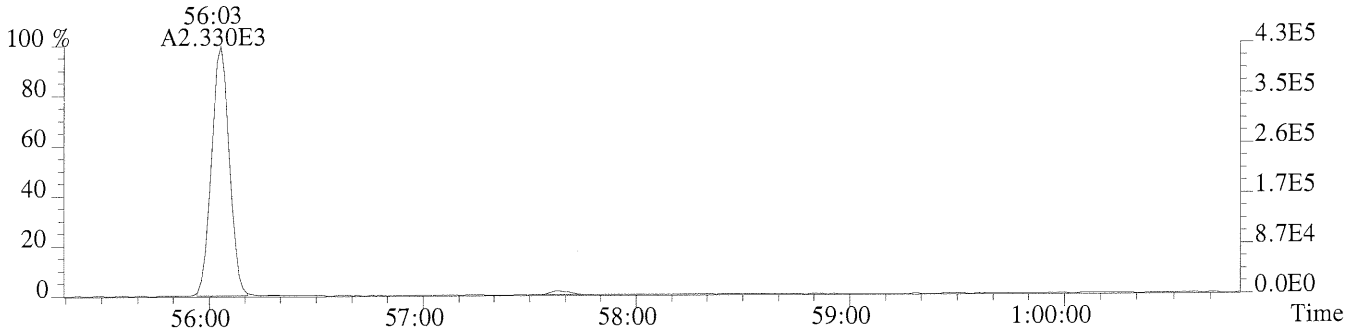
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4040.0,1.00%,F,T)



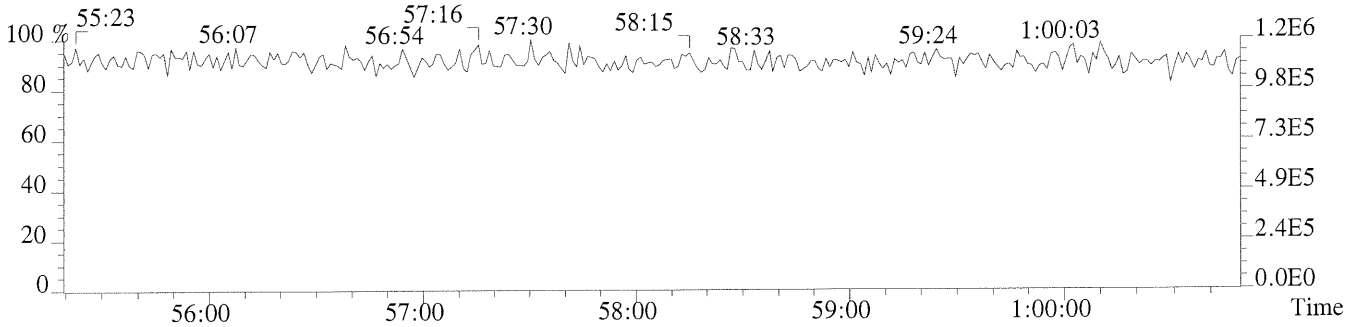
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1272.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)

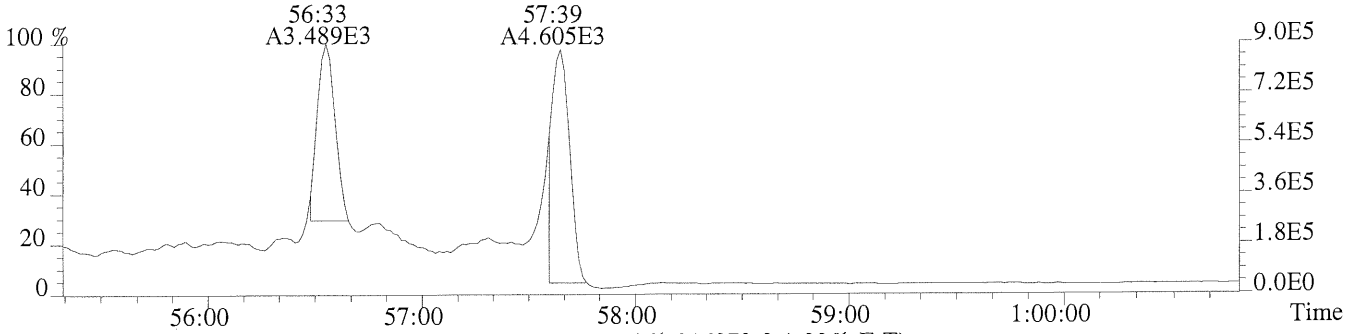


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

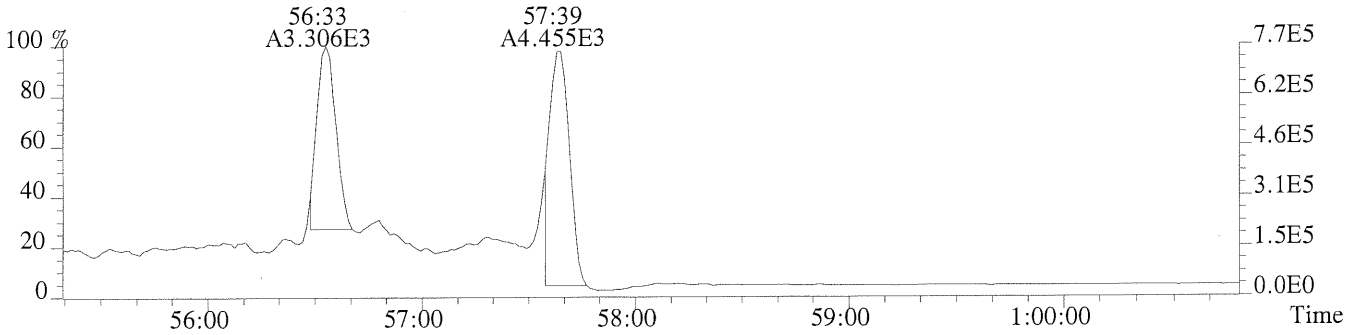


File:U142147 #1-310 Acq:21-NOV-2011 09:35:46 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

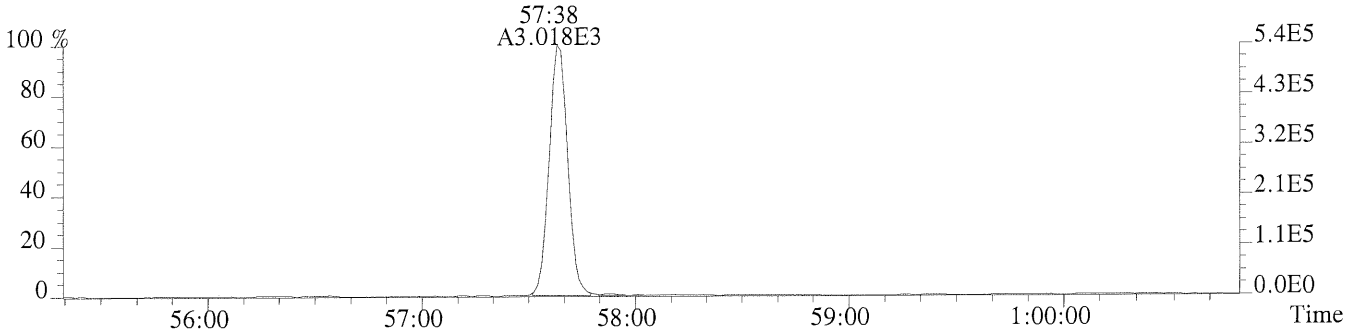
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,243464.0,1.00%,F,T)



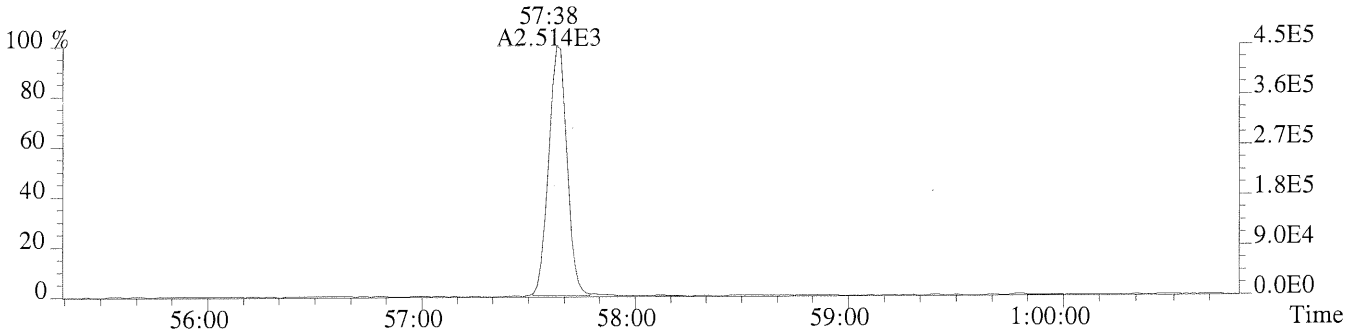
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,215072.0,1.00%,F,T)



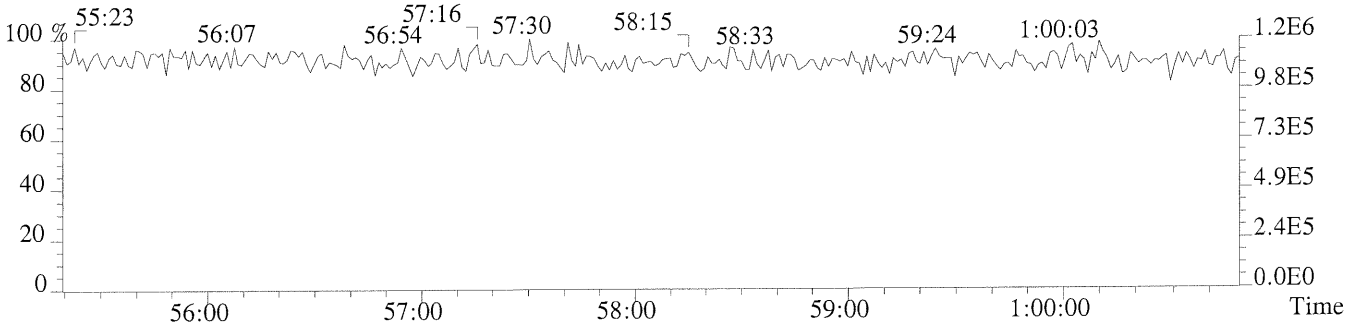
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,912.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



FORM 4A
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: Autospec Ultima GC Column ID: SPB-OCTYL

VER Data Filename: U142149 Analysis Date: 21-NOV-11 Time: 12:58:21

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2-MoCB	M/M+2	2.87	2.66-3.60	39.4	35.0 - 65.0
4-MoCB	M/M+2	2.93	2.66-3.60	41.8	35.0 - 65.0
22'-DiCB	M/M+2	1.59	1.33-1.79	46.7	35.0 - 65.0
44'-DiCB	M/M+2	1.51	1.33-1.79	41.8	35.0 - 65.0
22'6'-TrCB	M/M+2	0.99	0.88-1.20	48.0	35.0 - 65.0
344'-TrCB	M/M+2	1.01	0.88-1.20	44.8	35.0 - 65.0
22'66'-TeCB	M/M+2	0.74	0.65-0.89	56.7	35.0 - 65.0
344'5-TeCB	M/M+2	0.76	0.65-0.89	44.7	35.0 - 65.0
33'44'-TeCB	M/M+2	0.75	0.65-0.89	45.7	35.0 - 65.0
22'466'-PeCB	M+2/M+4	1.55	1.32-1.78	48.1	35.0 - 65.0
2'344'5-PeCB	M+2/M+4	1.53	1.32-1.78	47.0	35.0 - 65.0
23'44'5-PeCB	M+2/M+4	1.56	1.32-1.78	45.5	35.0 - 65.0
2344'5-PeCB	M+2/M+4	1.57	1.32-1.78	48.7	35.0 - 65.0
233'44'-PeCB	M+2/M+4	1.46	1.32-1.78	47.1	35.0 - 65.0
33'44'5-PeCB	M+2/M+4	1.56	1.32-1.78	48.2	35.0 - 65.0
22'44'66'-HxCB	M+2/M+4	1.21	1.05-1.43	50.7	35.0 - 65.0
23'44'55'-HxCB	M+2/M+4	1.17	1.05-1.43	45.1	35.0 - 65.0
233'44'5-HxCB	M+2/M+4	1.20	1.05-1.43	90.8	70.0 -130.0
33'44'55'-HxCB	M+2/M+4	1.22	1.05-1.43	46.4	35.0 - 65.0
22'34'566'-HpCB	M+2/M+4	1.02	0.89-1.21	51.3	35.0 - 65.0
233'44'55'-HpCB	M+2/M+4	0.93	0.89-1.21	49.8	35.0 - 65.0
22'33'55'66'-OcCB	M+2/M+4	0.83	0.76-1.02	52.5	35.0 - 65.0
233'44'55'6-OcCB	M+2/M+4	0.84	0.76-1.02	52.0	35.0 - 65.0
22'33'4'55'66'-NoCB	M+2/M+4	0.78	0.65-0.89	56.3	35.0 - 65.0
22'33'44'55'6-NoCB	M+2/M+4	0.71	0.65-0.89	48.0	35.0 - 65.0
DeCB	M+4/M+6	1.22	0.99-1.33	60.5	35.0 - 65.0

(1) See Table 7, Method 1668A, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

(3) Contract-required concentration range as specified in Table 6, Method 1668A, under VER.

SP1668F4AU

FORM 4B
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: Autospec Ultima GC Column ID: SPB-OCTYL

VER Data Filename: U142149 Analysis Date: 21-NOV-11 Time: 12:58:21

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
LABELED COMPOUNDS					
13C-2-MoCB	M/M+2	3.16	2.66-3.60	107.0	50.0 - 150.0
13C-4-MoCB	M/M+2	3.23	2.66-3.60	109.2	50.0 - 150.0
13C-22'-DiCB	M/M+2	1.53	1.33-1.79	138.5	50.0 - 150.0
13C-44'-DiCB	M/M+2	1.51	1.33-1.79	108.7	50.0 - 150.0
13C-22'6'-TrCB	M/M+2	1.06	0.88-1.20	142.7	50.0 - 150.0
13C-344'-TrCB	M/M+2	1.01	0.88-1.20	78.7	50.0 - 150.0
13C-22'66'-TeCB	M/M+2	0.81	0.65-0.89	91.4	50.0 - 150.0
13C-344'5-TeCB	M/M+2	0.77	0.65-0.89	83.5	50.0 - 150.0
13C-33'44'-TeCB	M/M+2	0.76	0.65-0.89	79.3	50.0 - 150.0
13C-22'466'-PeCB	M+2/M+4	1.55	1.32-1.78	97.9	50.0 - 150.0
13C-2'344'5-PeCB	M+2/M+4	1.55	1.32-1.78	81.0	50.0 - 150.0
13C-23'44'5-PeCB	M+2/M+4	1.50	1.32-1.78	80.5	50.0 - 150.0
13C-2344'5-PeCB	M+2/M+4	1.52	1.32-1.78	74.3	50.0 - 150.0
13C-233'44'-PeCB	M+2/M+4	1.56	1.32-1.78	76.7	50.0 - 150.0
13C-33'44'5-PeCB	M+2/M+4	1.52	1.32-1.78	81.3	50.0 - 150.0
13C-22'44'66'-HxCB	M+2/M+4	1.22	1.05-1.43	95.5	50.0 - 150.0
13C-23'44'55'-HxCB	M+2/M+4	1.26	1.05-1.43	69.6	50.0 - 150.0
13C-233'44'5'-HxCB	M+2/M+4	1.24	1.05-1.43	140.0	100.0 - 300.0
13C-33'44'55'-HxCB	M+2/M+4	1.25	1.05-1.43	69.5	50.0 - 150.0
13C-22'34'566'-HpCB	M+2/M+4	1.04	0.89-1.21	119.0	50.0 - 150.0
13C-233'44'55'-HpCB	M+2/M+4	1.05	0.89-1.21	103.3	50.0 - 150.0
13C-22'33'55'66'-OcCB	M+2/M+4	0.91	0.76-1.02	102.2	50.0 - 150.0
13C-233'44'55'6-OcCB	M+2/M+4	0.93	0.76-1.02	102.8	50.0 - 150.0
13C-22'33'4'55'66'-NoCB	M+2/M+4	0.80	0.65-0.89	105.7	50.0 - 150.0
13C-22'33'44'55'6-NoCB	M+2/M+4	0.80	0.65-0.89	99.1	50.0 - 150.0
13C-DeCB	M+4/M+6	1.20	0.99-1.33	93.3	50.0 - 150.0
CLEANUP STANDARDS					
13C-244'-TrCB	M/M+2	1.04	0.88-1.20	75.5	50.0 - 150.0
13C-233'55'-PeCB	M+2/M+4	1.59	1.32-1.78	97.1	50.0 - 150.0
13C-22'33'55'6-HpCB	M+2/M+4	1.05	0.89-1.21	89.7	50.0 - 150.0

(1) See Table 7, Method 1668A, for m/z specifications.
(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.
(3) Contract-required concentration range, as specified in Table 6, Method 1668A, under VER.

SP1668F4Bu

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
CCAL CS3

Run #7 Filename U142149 #1 Samp: 1 Inj: 1 Acquired: 21-NOV-11 12:58:21
Processed: 23-NOV-11 08:57:28 LAB. ID: CCAL CS3

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?	RRT
1	1	2-MoCB	13:21	6.180e+03	2.157e+03	2.87	yes	no	1.001
2	3	4-MoCB	15:37	6.255e+03	2.139e+03	2.93	yes	no	1.000
3	4	22'-DiCB	15:52	5.381e+03	3.386e+03	1.59	yes	no	1.001
4	15	44'-DiCB	21:56	3.884e+03	2.576e+03	1.51	yes	no	1.001
5	19	22'6'-TrCB	19:04	3.283e+03	3.327e+03	0.99	yes	no	1.001
6	37	344'-TrCB	29:03	3.358e+03	3.314e+03	1.01	yes	no	1.001
7	54	22'66'-TeCB	22:13	3.839e+03	5.157e+03	0.74	yes	no	1.002
8	81	344'5-TeCB	35:51	2.388e+03	3.161e+03	0.76	yes	no	1.001
9	77	33'44'-TeCB	36:25	2.221e+03	2.981e+03	0.75	yes	no	1.001
10	104	22'466'-PeCB	27:47	5.670e+03	3.650e+03	1.55	yes	no	1.001
11	123	2'344'5-PeCB	38:24	3.318e+03	2.172e+03	1.53	yes	no	1.000
12	118	23'44'5-PeCB	38:44	3.294e+03	2.113e+03	1.56	yes	no	1.000
13	114	2344'5-PeCB	39:16	3.239e+03	2.068e+03	1.57	yes	no	1.000
14	105	233'44'-PeCB	39:55	3.023e+03	2.071e+03	1.46	yes	no	1.001
15	126	33'44'5-PeCB	43:01	2.832e+03	1.819e+03	1.56	yes	no	1.000
16	155	22'44'66'-HxCB	33:30	5.301e+03	4.365e+03	1.21	yes	no	1.001
17	167	23'44'55'-HxCB	44:53	1.852e+03	1.588e+03	1.17	yes	no	1.000
18	156/7	233'44'5-HxCB	46:02	3.519e+03	2.923e+03	1.20	yes	no	1.000
19	169	33'44'55'-HxCB	49:17	1.552e+03	1.270e+03	1.22	yes	no	1.000
20	188	22'34'566'-HpCB	39:15	4.372e+03	4.288e+03	1.02	yes	no	1.001
21	189	233'44'55'-HpCB	51:48	1.698e+03	1.824e+03	0.93	yes	no	1.001
22	202	22'33'55'66'-OcCB	44:37	2.306e+03	2.775e+03	0.83	yes	no	1.000
23	205	233'44'55'6-OcCB	54:20	1.788e+03	2.141e+03	0.84	yes	no	1.000
24	208	22'33'4'55'66'-NoCB	51:17	1.869e+03	2.389e+03	0.78	yes	no	1.000
25	206	22'33'44'55'6-NoCB	56:04	1.111e+03	1.571e+03	0.71	yes	no	1.000
26	209	DeCB	57:40	2.625e+03	2.160e+03	1.22	yes	no	1.001
27	1L	13C-2-MoCB	13:20	1.501e+04	4.755e+03	3.16	yes	no	0.745
28	3L	13C-4-MoCB	15:37	1.480e+04	4.590e+03	3.23	yes	no	0.872
29	4L	13C-22'-DiCB	15:51	1.019e+04	6.653e+03	1.53	yes	no	0.885
30	15L	13C-44'-DiCB	21:55	9.534e+03	6.302e+03	1.51	yes	no	1.224
31	19L	13C-22'6'-TrCB	19:03	7.083e+03	6.660e+03	1.06	yes	no	1.064
32	37L	13C-344'-TrCB	29:02	6.891e+03	6.791e+03	1.01	yes	no	1.083
33	54L	13C-22'66'-TeCB	22:11	7.076e+03	8.746e+03	0.81	yes	no	0.827
34	81L	13C-344'5-TeCB	35:49	5.225e+03	6.784e+03	0.77	yes	no	1.336
35	77L	13C-33'44'-TeCB	36:23	4.931e+03	6.496e+03	0.76	yes	no	1.357
36	104L	13C-22'466'-PeCB	27:46	1.144e+04	7.372e+03	1.55	yes	no	0.824
37	123L	13C-2'344'5-PeCB	38:23	6.972e+03	4.502e+03	1.55	yes	no	1.138
38	118L	13C-23'44'5-PeCB	38:43	7.165e+03	4.762e+03	1.50	yes	no	1.148
39	114L	13C-2344'5-PeCB	39:15	6.633e+03	4.360e+03	1.52	yes	no	1.164
40	105L	13C-233'44'-PeCB	39:53	6.524e+03	4.172e+03	1.56	yes	no	1.183
41	126L	13C-33'44'5-PeCB	43:00	6.065e+03	3.989e+03	1.52	yes	no	1.275
42	155L	13C-22'44'66'-HxCB	33:28	1.060e+04	8.681e+03	1.22	yes	no	0.800
43	167L	13C-23'44'55'-HxCB	44:52	4.220e+03	3.350e+03	1.26	yes	no	1.073
44	156/7	13C-233'44'5'-HxCB	46:01	7.800e+03	6.312e+03	1.24	yes	no	1.100
45	169L	13C-33'44'55'-HxCB	49:16	3.404e+03	2.733e+03	1.25	yes	no	1.178
46	188L	13C-22'34'566'-HpCB	39:13	8.687e+03	8.351e+03	1.04	yes	no	0.728
47	189L	13C-233'44'55'-HpCB	51:46	4.207e+03	3.991e+03	1.05	yes	no	0.961
48	202L	13C-22'33'55'66'-OcCB	44:36	5.331e+03	5.868e+03	0.91	yes	no	0.828
49	205L	13C-233'44'55'6-OcCB	54:19	4.099e+03	4.406e+03	0.93	yes	no	1.009
50	208L	13C-22'33'4'55'66'-NoCB	51:16	3.814e+03	4.771e+03	0.80	yes	no	0.952
51	206L	13C-22'33'44'55'6-NoCB	56:03	2.670e+03	3.332e+03	0.80	yes	no	1.041
52	209L	13C-DeCB	57:38	4.824e+03	4.023e+03	1.20	yes	no	1.070

53	28L	13C-244'-TrCB	24:58	8.128e+03	7.780e+03	1.04	yes	no	0.931
54	111L	13C-233'55'-PeCB	36:25	1.015e+04	6.395e+03	1.59	yes	no	1.080
55	178L	13C-22'33'55'6-HpCB	42:17	5.395e+03	5.147e+03	1.05	yes	no	1.011
56	9L	13C-2,5-DiCB	17:54	9.154e+03	5.990e+03	1.53	yes	no	*
57	52L	13C-22'55'-TeCB	26:49	6.668e+03	8.521e+03	0.78	yes	no	*
58	101L	13C-22'4'55'-PeCB	33:43	8.420e+03	5.346e+03	1.57	yes	no	*
59	138L	13C-22'3'44'5'-HxCB	41:50	6.889e+03	5.441e+03	1.27	yes	no	*
60	194L	13C-22'33'44'55'-OcCB	53:51	2.878e+03	3.194e+03	0.90	yes	no	*

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
CCAL CS3

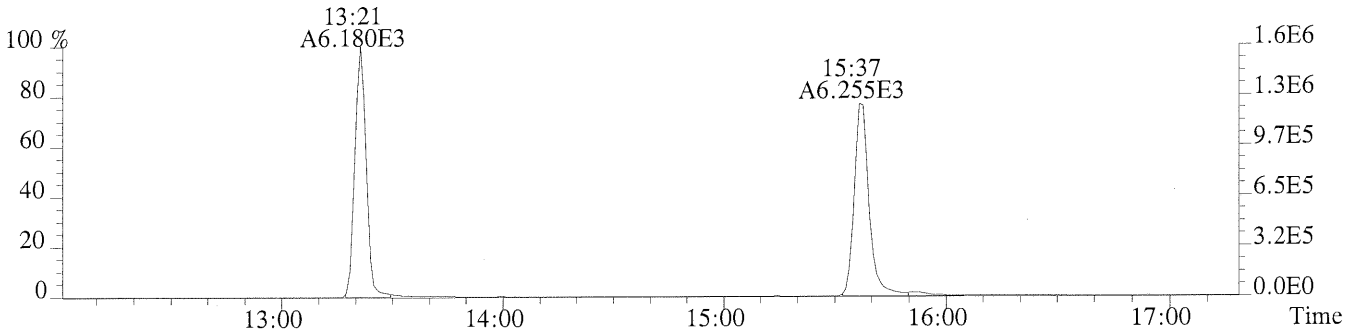
Run #7 Filename U142149 Samp: 1 Inj: 1 Acquired: 21-NOV-11 12:58:21
Processed: 23-NOV-11 08:57:281 LAB. ID: CCAL CS3

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	1.62e+06	1.24e+03	1.3e+03	5.71e+05	1.16e+03	4.9e+02
2	4-MoCB	1.24e+06	1.24e+03	1.0e+03	4.29e+05	1.16e+03	3.7e+02
3	22'-DiCB	1.19e+06	1.44e+03	8.2e+02	7.73e+05	1.07e+04	7.2e+01
4	44'-DiCB	6.81e+05	1.04e+03	6.6e+02	4.61e+05	1.07e+04	4.3e+01
5	22'6'-TrCB	7.14e+05	1.18e+03	6.1e+02	7.00e+05	7.32e+02	9.6e+02
6	344'-TrCB	5.37e+05	1.18e+03	4.5e+02	5.31e+05	8.00e+02	6.6e+02
7	22'66'-TeCB	7.94e+05	5.56e+02	1.4e+03	1.07e+06	5.60e+02	1.9e+03
8	344'5-TeCB	4.05e+05	5.20e+02	7.8e+02	5.16e+05	7.76e+02	6.7e+02
9	33'44'-TeCB	3.56e+05	5.20e+02	6.8e+02	4.83e+05	7.76e+02	6.2e+02
10	22'466'-PeCB	9.98e+05	5.64e+02	1.8e+03	6.54e+05	5.08e+02	1.3e+03
11	2'344'5-PeCB	5.87e+05	2.37e+03	2.5e+02	3.75e+05	1.67e+03	2.2e+02
12	23'44'5-PeCB	5.55e+05	2.37e+03	2.3e+02	3.59e+05	1.67e+03	2.2e+02
13	2344'5-PeCB	5.66e+05	2.37e+03	2.4e+02	3.60e+05	1.67e+03	2.2e+02
14	233'44'-PeCB	5.13e+05	2.37e+03	2.2e+02	3.47e+05	1.67e+03	2.1e+02
15	33'44'5-PeCB	4.61e+05	2.37e+03	1.9e+02	2.94e+05	1.67e+03	1.8e+02
16	22'44'66'-HxCB	9.78e+05	1.89e+03	5.2e+02	7.92e+05	9.76e+02	8.1e+02
17	23'44'55'-HxCB	3.85e+05	8.60e+02	4.5e+02	3.35e+05	5.64e+02	5.9e+02
18	233'44'5-HxCB	5.66e+05	8.60e+02	6.6e+02	4.55e+05	5.64e+02	8.1e+02
19	33'44'55'-HxCB	2.98e+05	8.60e+02	3.5e+02	2.56e+05	5.64e+02	4.5e+02
20	22'34'566'-HpCB	7.74e+05	8.88e+02	8.7e+02	7.72e+05	6.16e+02	1.3e+03
21	233'44'55'-HpCB	3.48e+05	1.05e+03	3.3e+02	3.58e+05	7.08e+02	5.1e+02
22	22'33'55'66'-OcCB	5.07e+05	1.04e+03	4.9e+02	6.07e+05	1.12e+03	5.4e+02
23	233'44'55'6-OcCB	3.63e+05	1.04e+03	3.5e+02	4.43e+05	1.12e+03	4.0e+02
24	22'33'4'55'66'-NoCB	3.83e+05	6.28e+02	6.1e+02	4.87e+05	6.76e+02	7.2e+02
25	22'33'44'55'6-NoCB	2.05e+05	8.04e+02	2.5e+02	2.70e+05	8.92e+02	3.0e+02
26	DeCB	4.47e+05	3.16e+03	1.4e+02	3.76e+05	2.64e+03	1.4e+02
27	13C-2-MoCB	3.96e+06	2.13e+03	1.9e+03	1.30e+06	1.98e+04	6.6e+01
28	13C-4-MoCB	2.96e+06	2.13e+03	1.4e+03	9.41e+05	1.98e+04	4.8e+01
29	13C-22'-DiCB	2.26e+06	2.13e+03	1.1e+03	1.46e+06	1.12e+03	1.3e+03
30	13C-44'-DiCB	1.67e+06	4.71e+03	3.5e+02	1.11e+06	1.25e+03	8.9e+02
31	13C-22'6'-TrCB	1.51e+06	1.46e+04	1.0e+02	1.40e+06	6.85e+03	2.0e+02
32	13C-344'-TrCB	1.13e+06	1.45e+04	7.8e+01	1.11e+06	7.74e+03	1.4e+02
33	13C-22'66'-TeCB	1.41e+06	1.84e+03	7.7e+02	1.73e+06	8.04e+02	2.1e+03
34	13C-344'5-TeCB	8.70e+05	1.94e+03	4.5e+02	1.10e+06	5.84e+02	1.9e+03
35	13C-33'44'-TeCB	7.72e+05	1.94e+03	4.0e+02	1.03e+06	5.84e+02	1.8e+03
36	13C-22'466'-PeCB	2.03e+06	6.40e+02	3.2e+03	1.31e+06	7.64e+02	1.7e+03
37	13C-2'344'5-PeCB	1.25e+06	6.02e+03	2.1e+02	7.80e+05	3.73e+03	2.1e+02
38	13C-23'44'5-PeCB	1.23e+06	6.02e+03	2.0e+02	8.29e+05	3.73e+03	2.2e+02
39	13C-2344'5-PeCB	1.16e+06	6.02e+03	1.9e+02	7.52e+05	3.73e+03	2.0e+02
40	13C-233'44'-PeCB	1.12e+06	6.02e+03	1.9e+02	7.02e+05	3.73e+03	1.9e+02
41	13C-33'44'5-PeCB	9.68e+05	6.02e+03	1.6e+02	6.28e+05	3.73e+03	1.7e+02
42	13C-22'44'66'-HxCB	1.89e+06	7.92e+02	2.4e+03	1.56e+06	8.24e+02	1.9e+03
43	13C-23'44'55'-HxCB	8.65e+05	9.04e+02	9.6e+02	6.80e+05	9.84e+02	6.9e+02
44	13C-233'44'5'-HxCB	1.25e+06	9.04e+02	1.4e+03	9.98e+05	9.84e+02	1.0e+03
45	13C-33'44'55'-HxCB	6.66e+05	9.04e+02	7.4e+02	5.41e+05	9.84e+02	5.5e+02
46	13C-22'34'566'-HpCB	1.55e+06	1.31e+03	1.2e+03	1.44e+06	9.64e+02	1.5e+03
47	13C-233'44'55'-HpCB	8.16e+05	1.05e+03	7.8e+02	7.94e+05	8.76e+02	9.1e+02
48	13C-22'33'55'66'-OcCB	1.16e+06	1.02e+03	1.1e+03	1.26e+06	6.88e+02	1.8e+03
49	13C-233'44'55'6-OcCB	8.47e+05	1.02e+03	8.3e+02	9.26e+05	6.88e+02	1.3e+03
50	13C-22'33'4'55'66'-NoCB	7.86e+05	5.60e+02	1.4e+03	9.69e+05	5.00e+02	1.9e+03
51	13C-22'33'44'55'6-NoCB	4.84e+05	6.32e+02	7.7e+02	6.12e+05	1.41e+03	4.3e+02
52	13C-DeCB	8.85e+05	7.72e+02	1.1e+03	7.28e+05	6.44e+02	1.1e+03

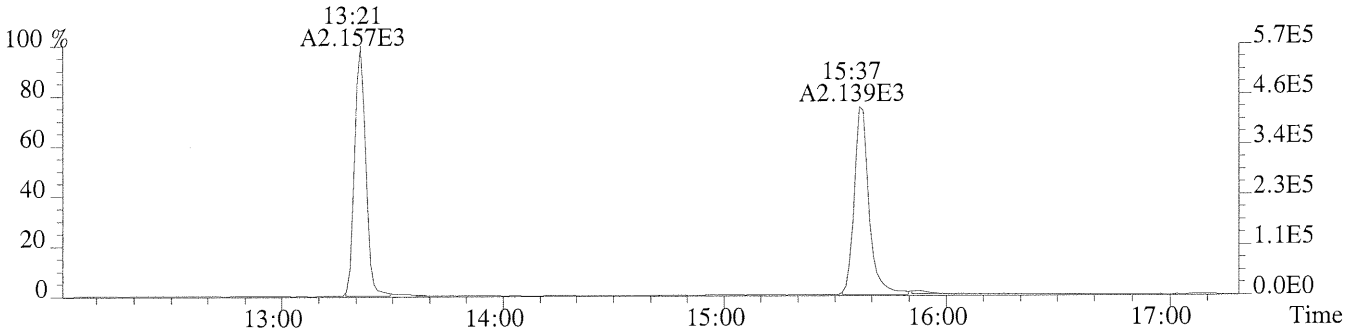
53	13C-244'-TrCB	1.39e+06	1.45e+04	9.6e+01	1.35e+06	7.74e+03	1.7e+02
54	13C-233'55'-PeCB	1.81e+06	8.64e+02	2.1e+03	1.15e+06	1.27e+03	9.0e+02
55	13C-22'33'55'6-HpCB	9.01e+05	1.31e+03	6.9e+02	8.87e+05	9.64e+02	9.2e+02
56	13C-2,5-DiCB	2.03e+06	4.71e+03	4.3e+02	1.29e+06	1.25e+03	1.0e+03
57	13C-22'55'-TeCB	1.18e+06	1.75e+03	6.7e+02	1.48e+06	6.52e+02	2.3e+03
58	13C-22'4'55'-PeCB	1.49e+06	8.64e+02	1.7e+03	9.53e+05	1.27e+03	7.5e+02
59	13C-22'3'44'5'-HxCB	1.19e+06	7.28e+02	1.6e+03	9.43e+05	7.84e+02	1.2e+03
60	13C-22'33'44'55'-OcCB	5.97e+05	1.02e+03	5.9e+02	6.70e+05	6.88e+02	9.7e+02

File:U142149 #1-341 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

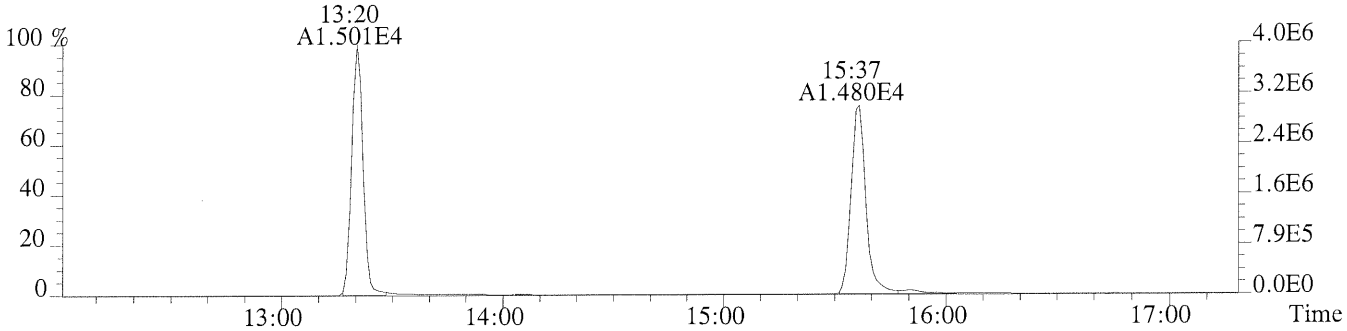
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1236.0,1.00%,F,T)



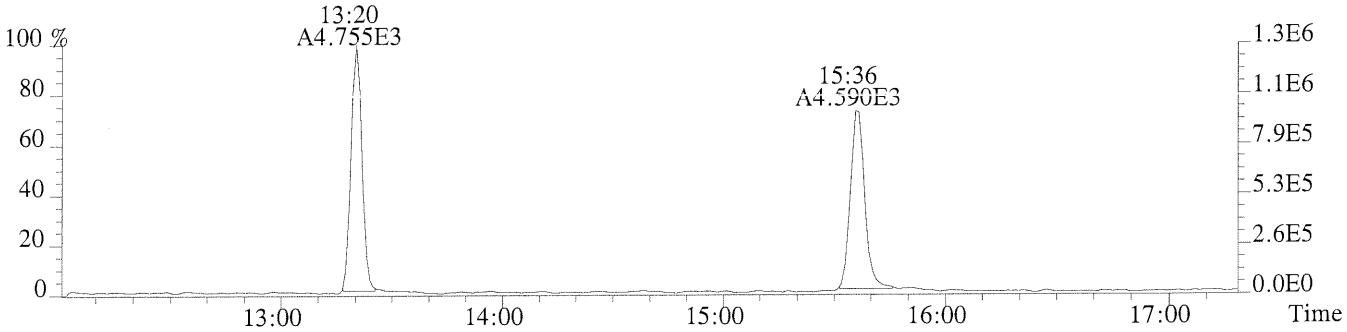
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1164.0,1.00%,F,T)



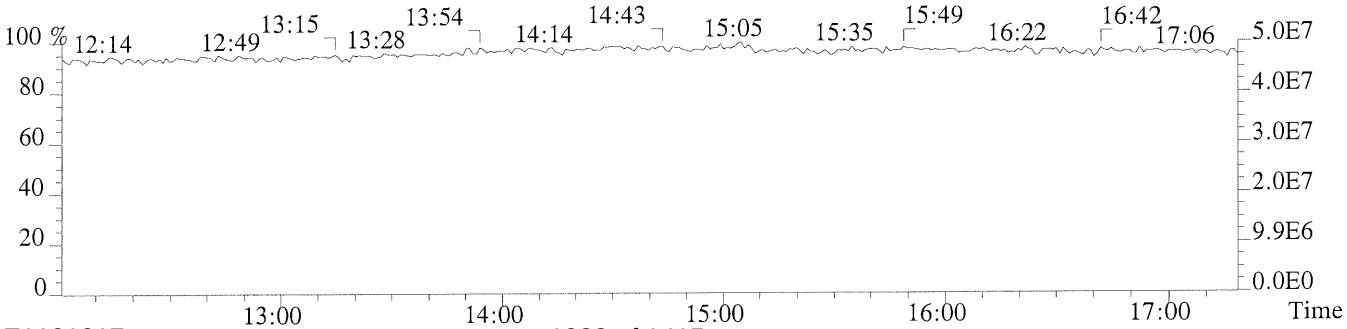
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2128.0,1.00%,F,T)



202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,19792.0,1.00%,F,T)

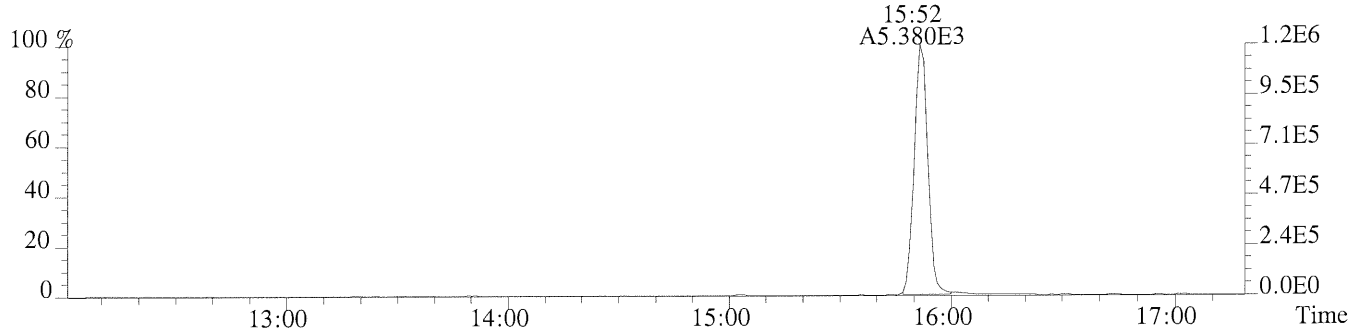


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

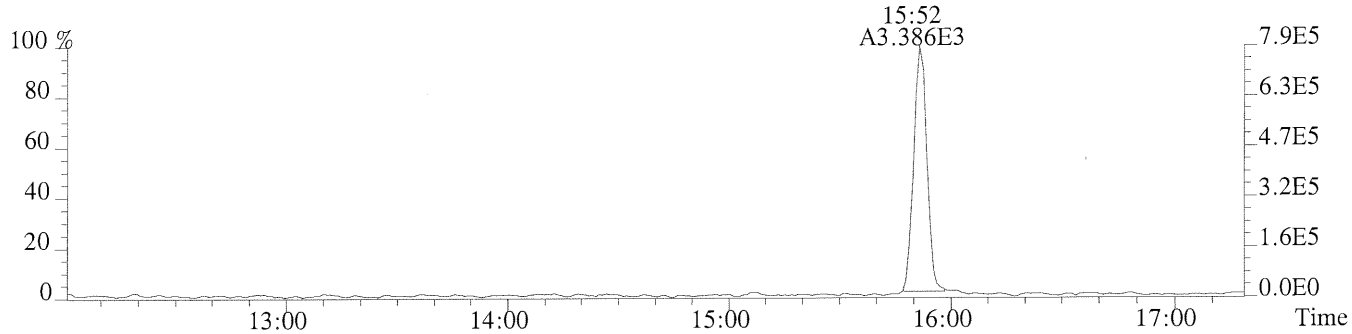


File:U142149 #1-341 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

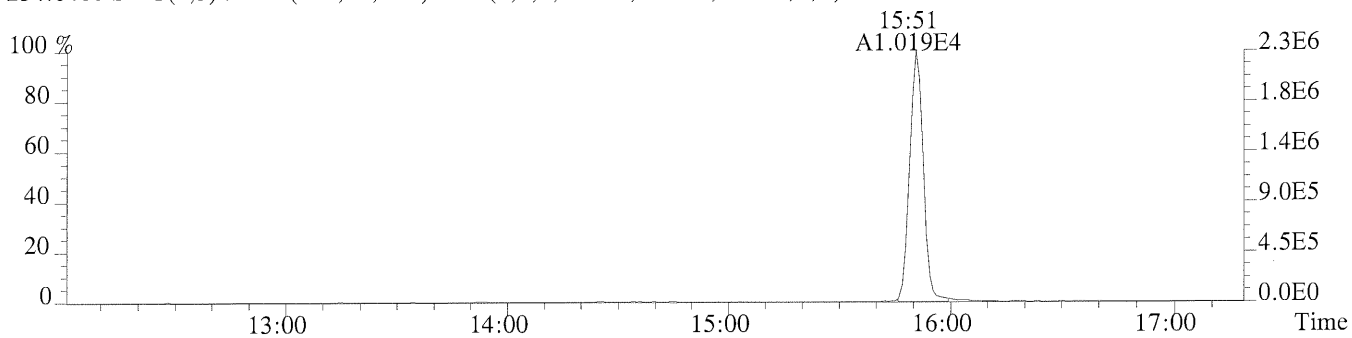
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1444.0,1.00%,F,T)



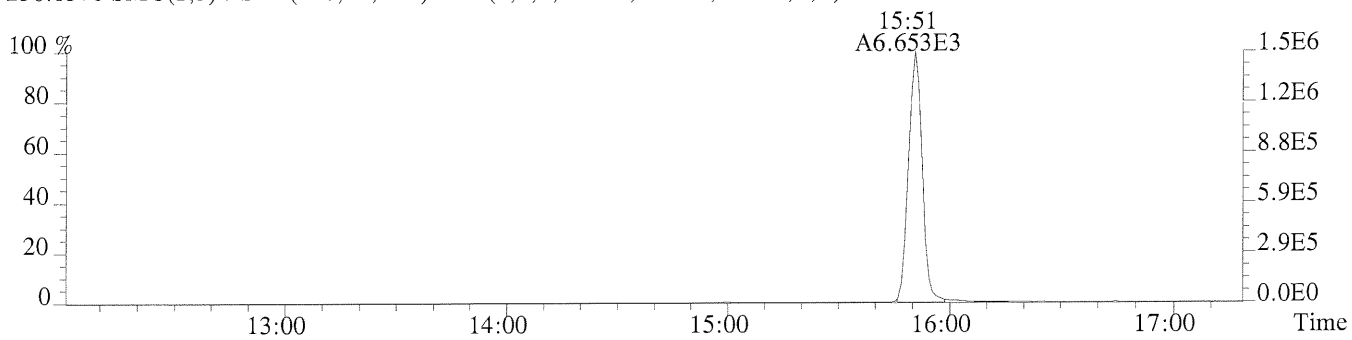
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10672.0,1.00%,F,T)



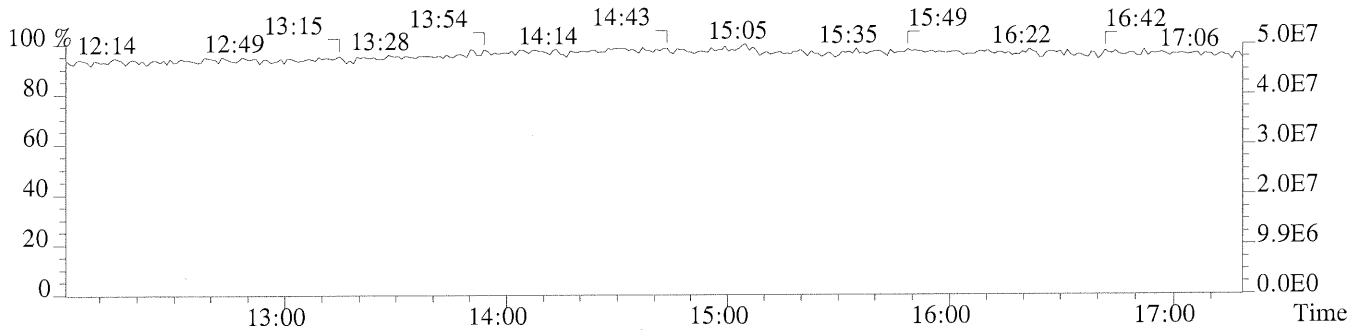
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2128.0,1.00%,F,T)



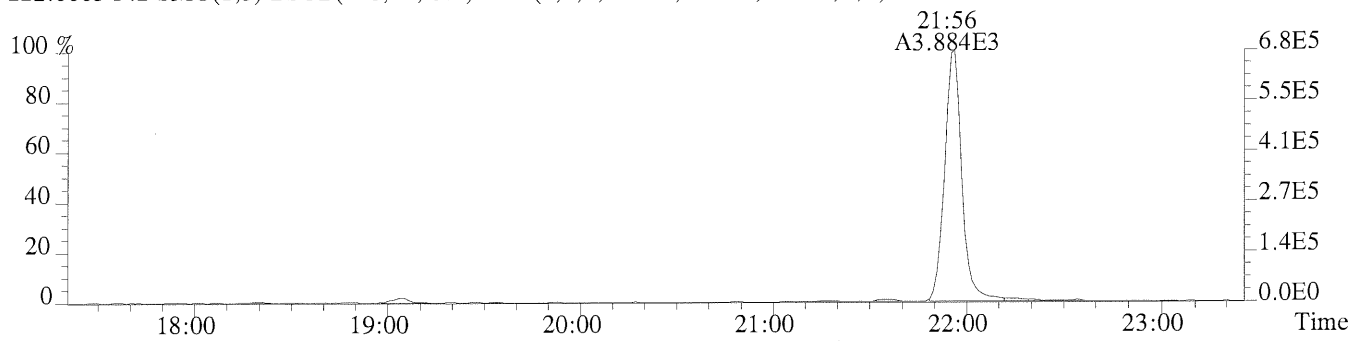
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1120.0,1.00%,F,T)



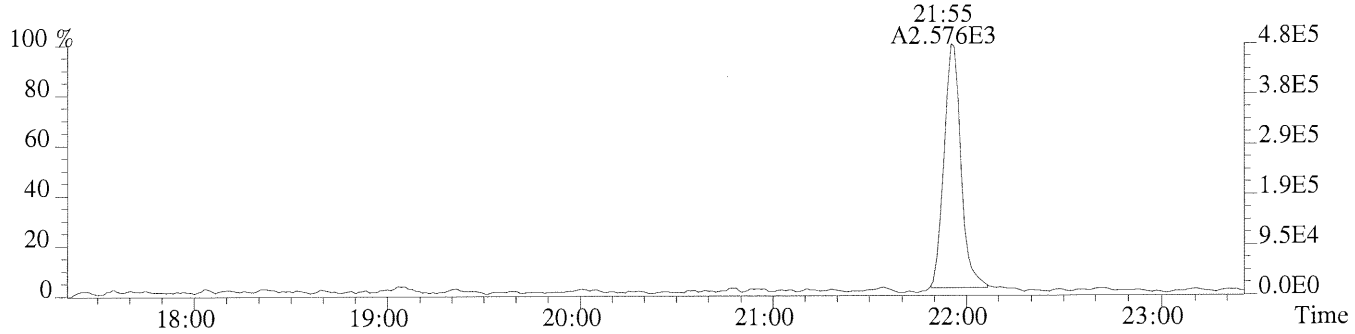
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



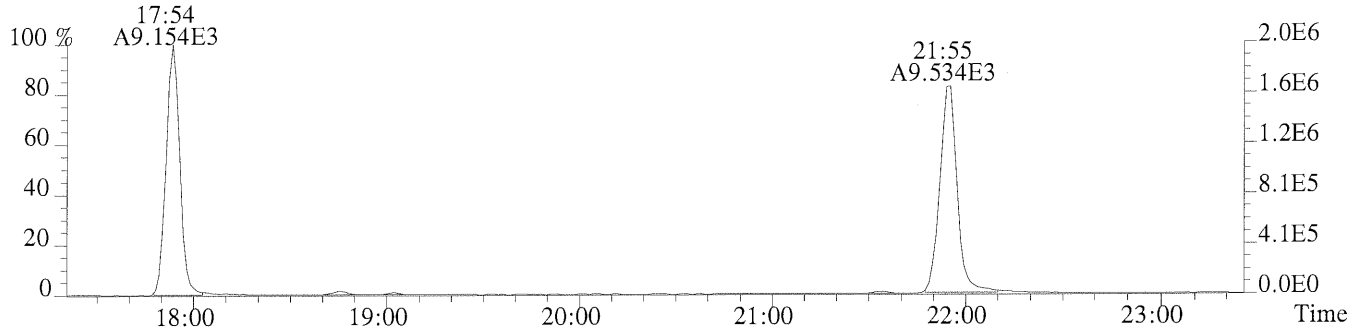
File:U142149 #1-336 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



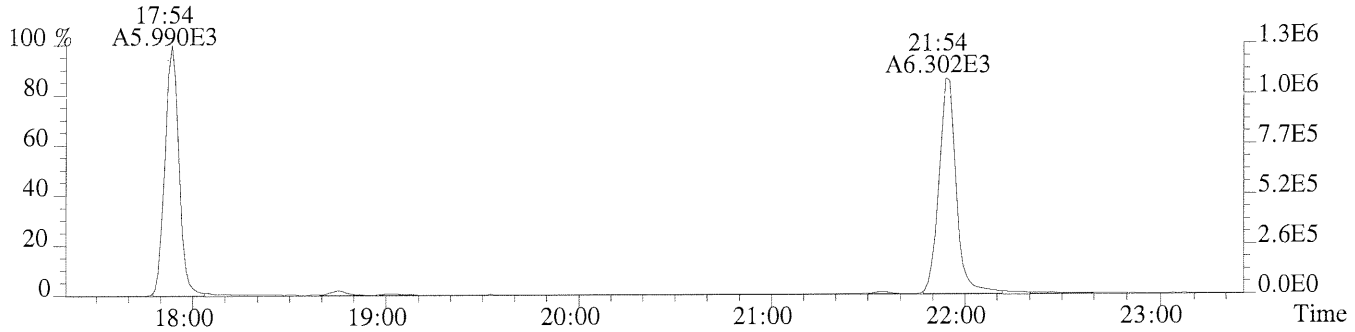
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10744.0,1.00%,F,T)



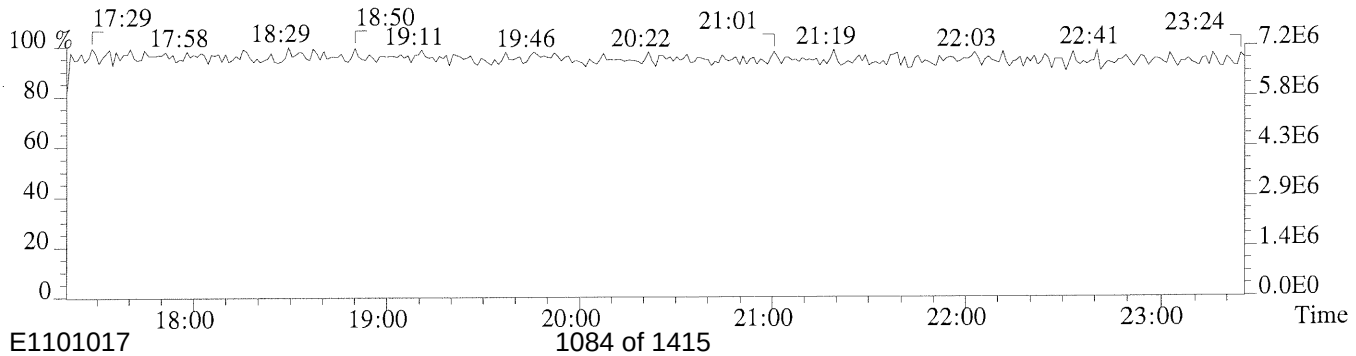
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4712.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1248.0,1.00%,F,T)

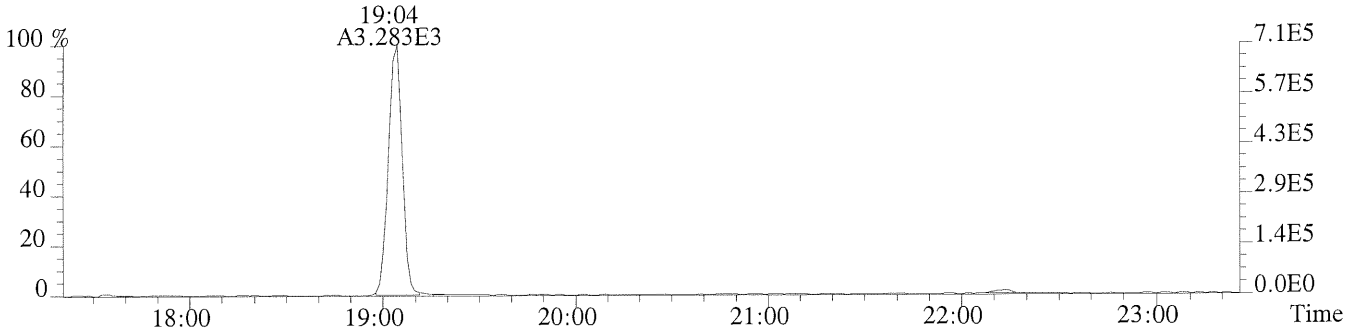


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

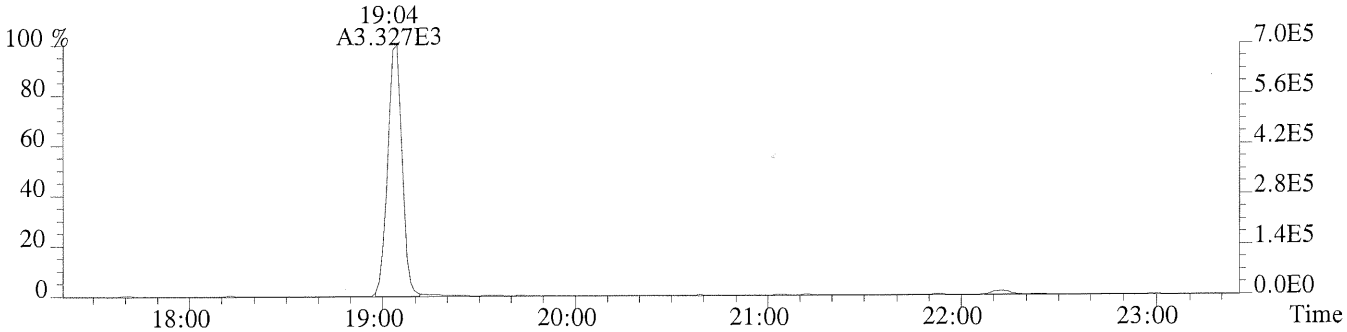


File:U142149 #1-336 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

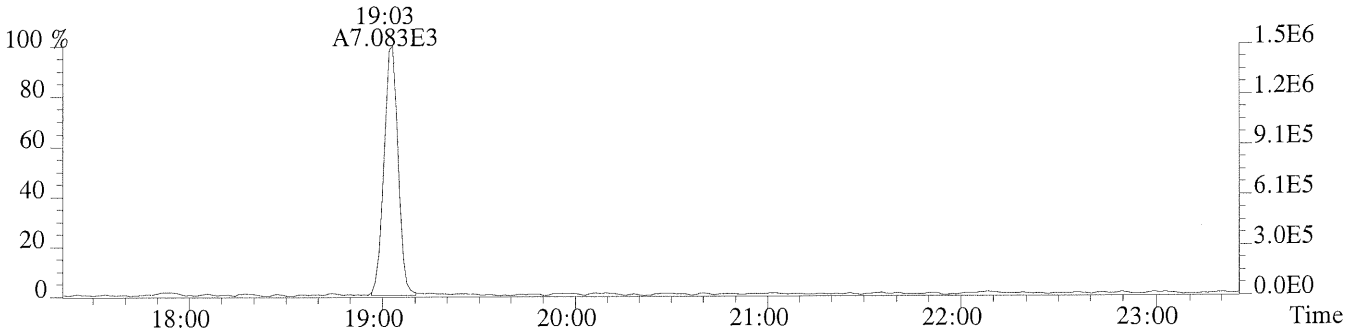
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)



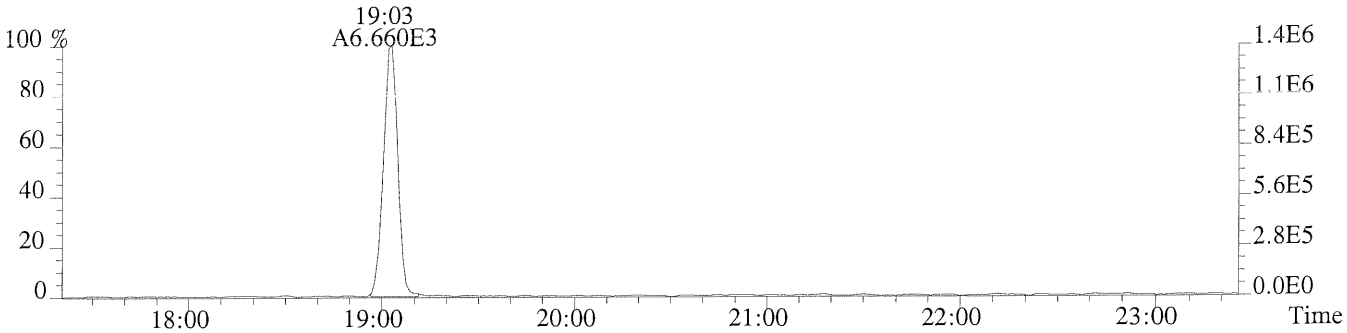
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,732.0,1.00%,F,T)



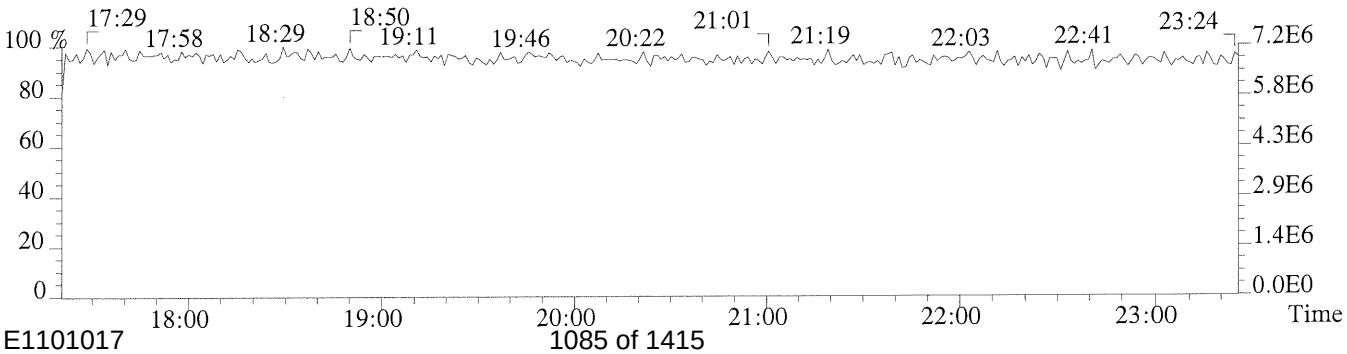
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14628.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6848.0,1.00%,F,T)

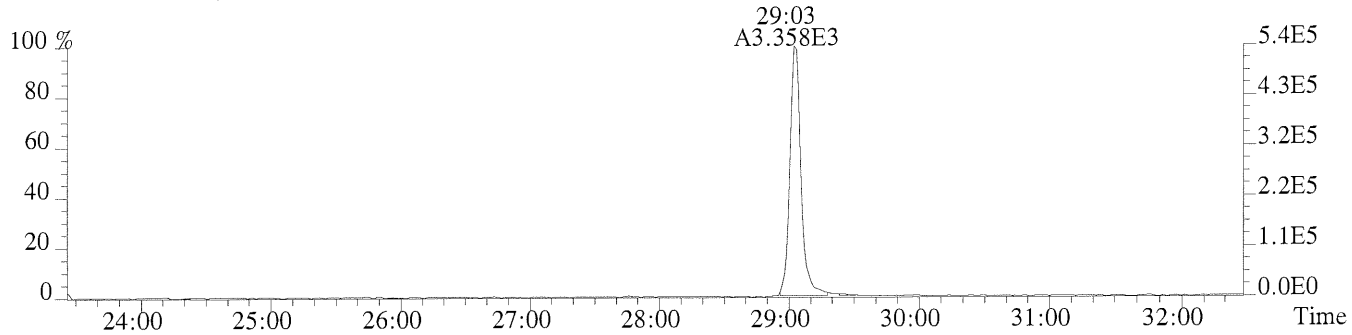


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

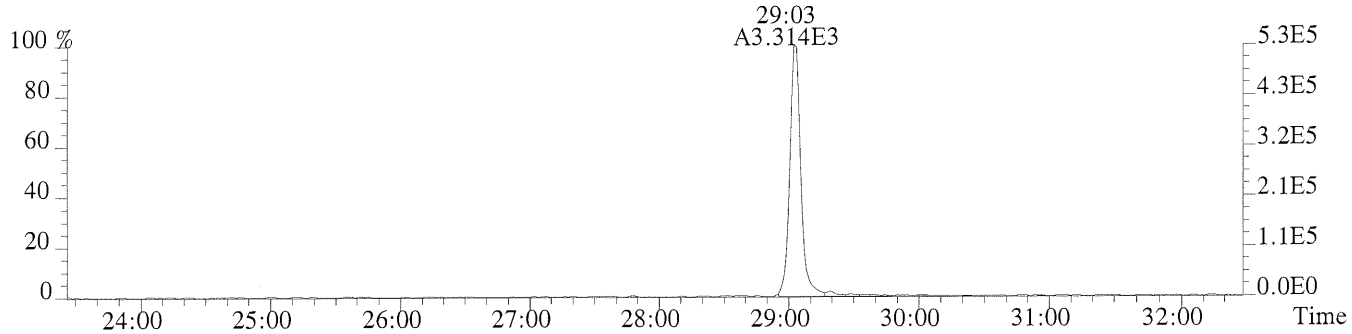


File:U142149 #1-578 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

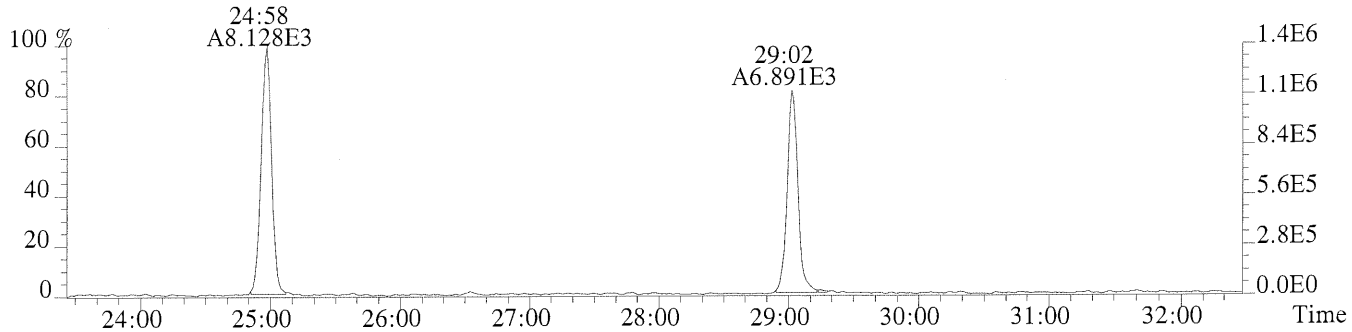
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1180.0,1.00%,F,T)



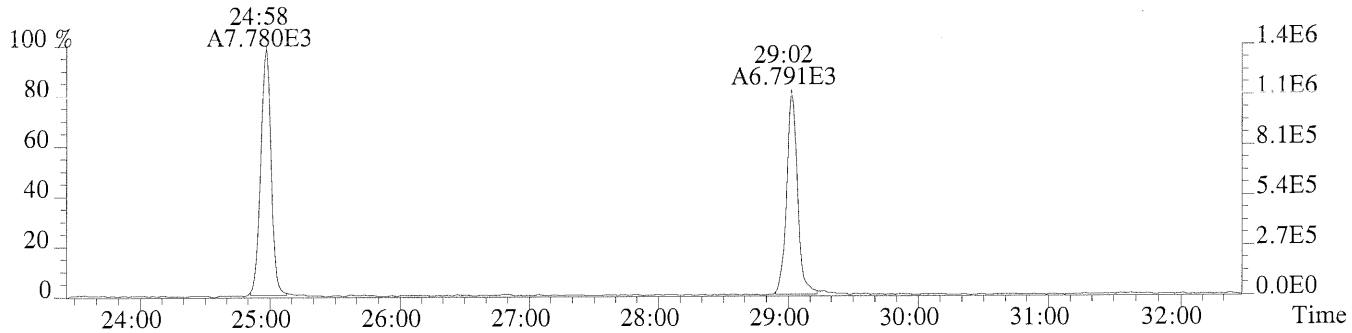
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,800.0,1.00%,F,T)



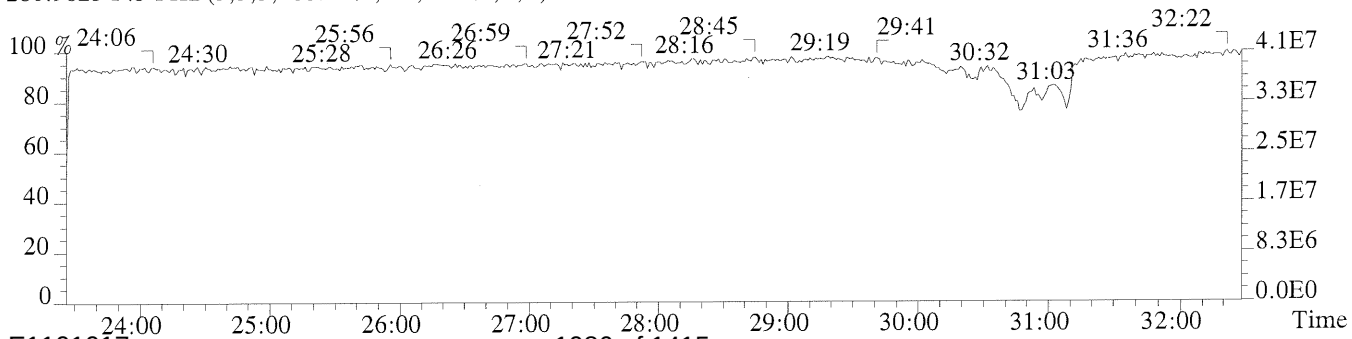
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14532.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7744.0,1.00%,F,T)

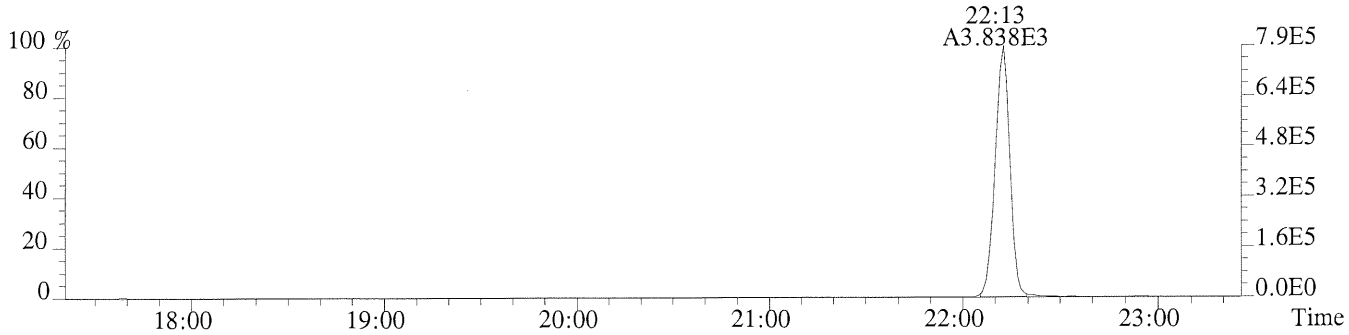


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

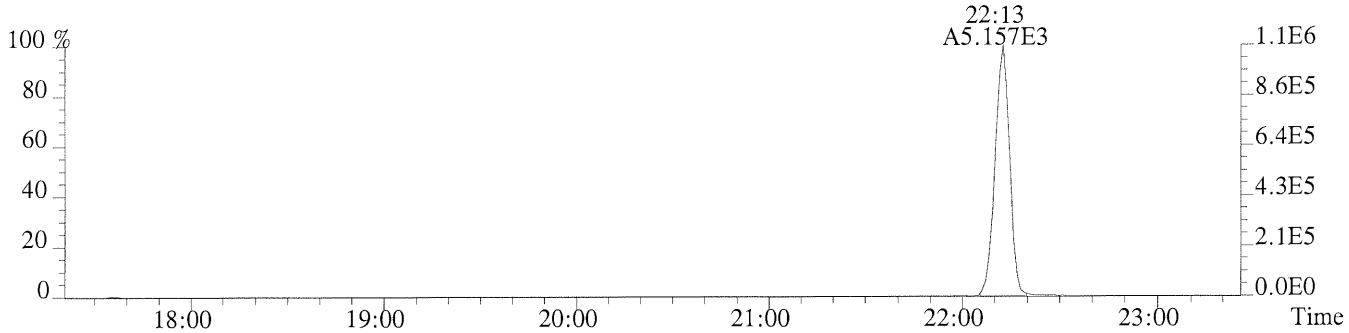


File:U142149 #1-336 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

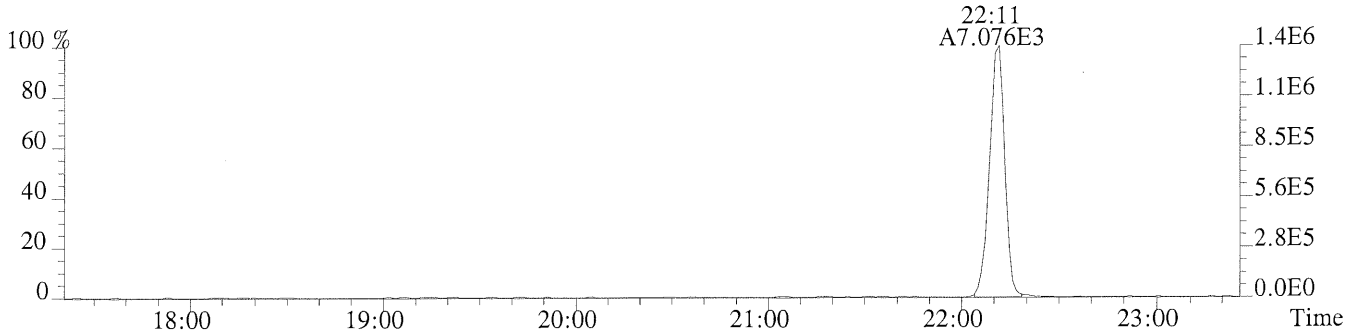
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,556.0,1.00%,F,T)



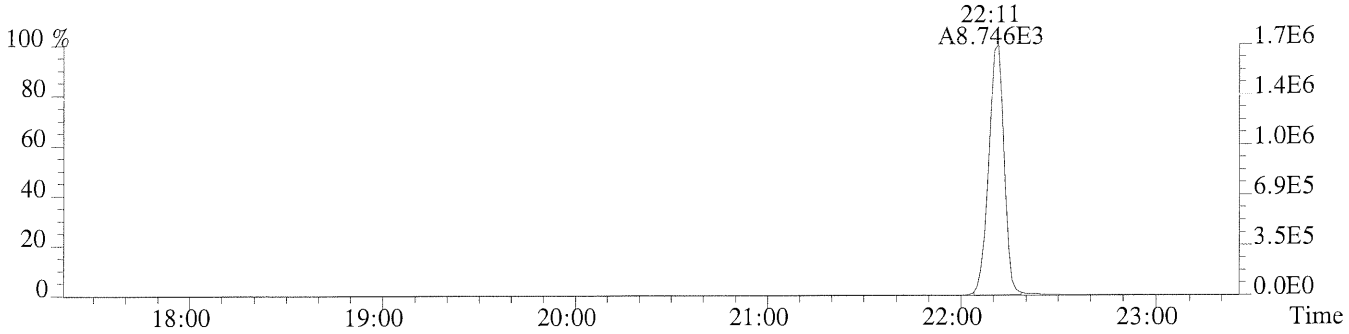
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,560.0,1.00%,F,T)



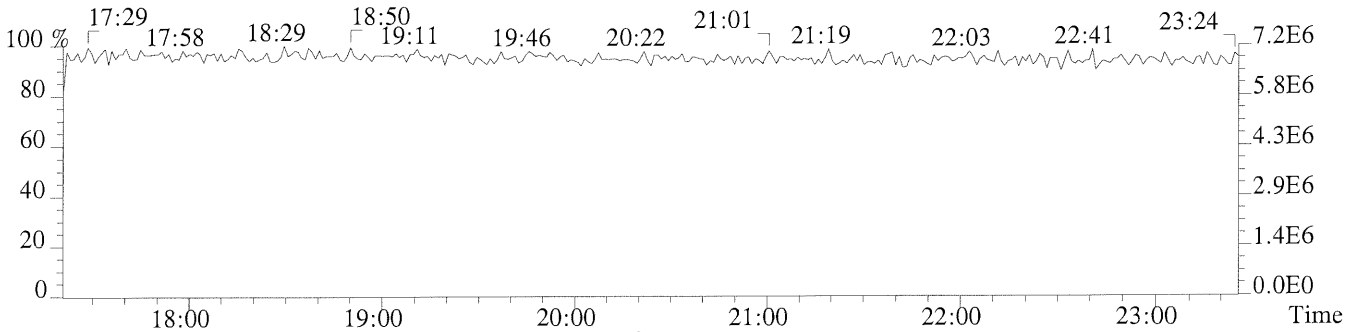
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1836.0,1.00%,F,T)



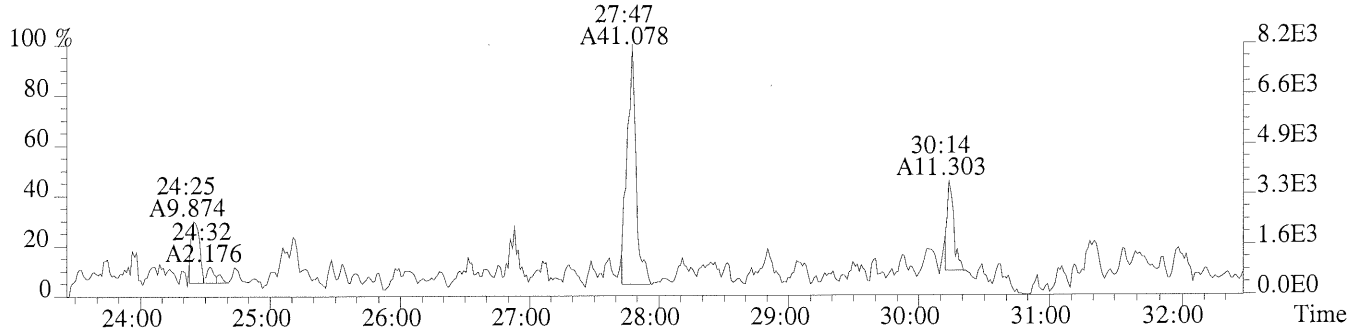
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



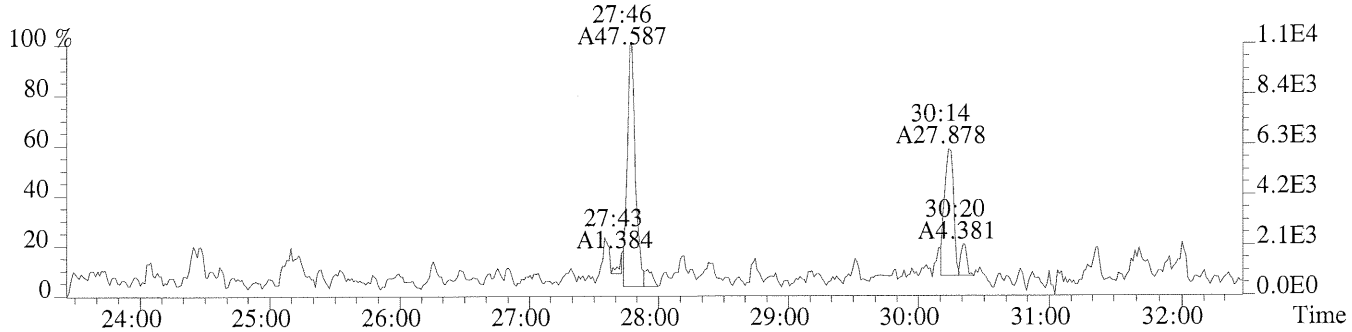
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



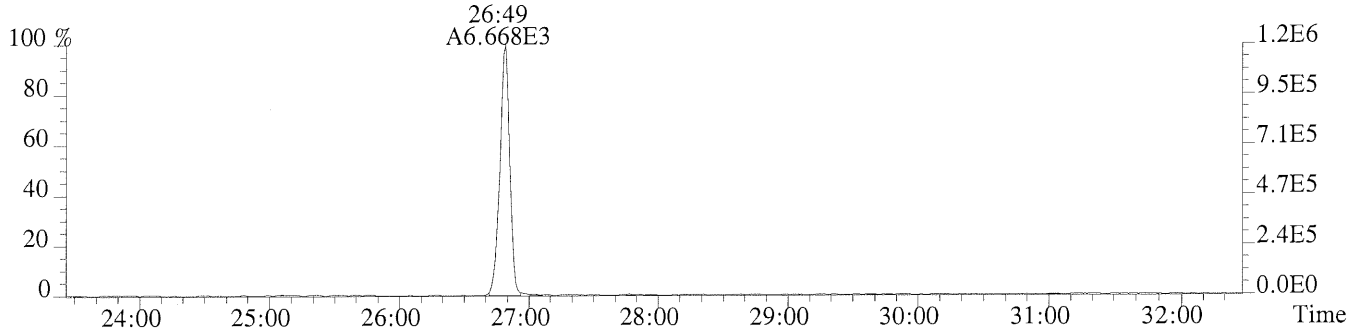
File:U142149 #1-578 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,884.0,1.00%,F,T)



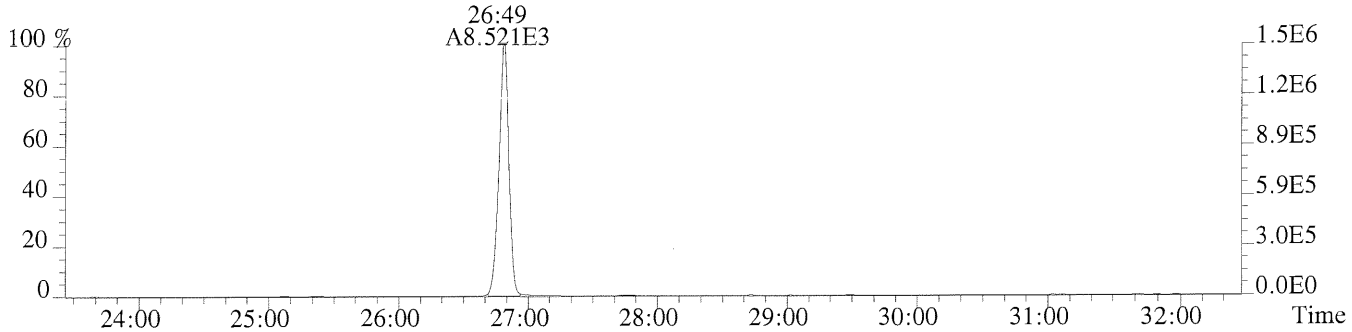
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



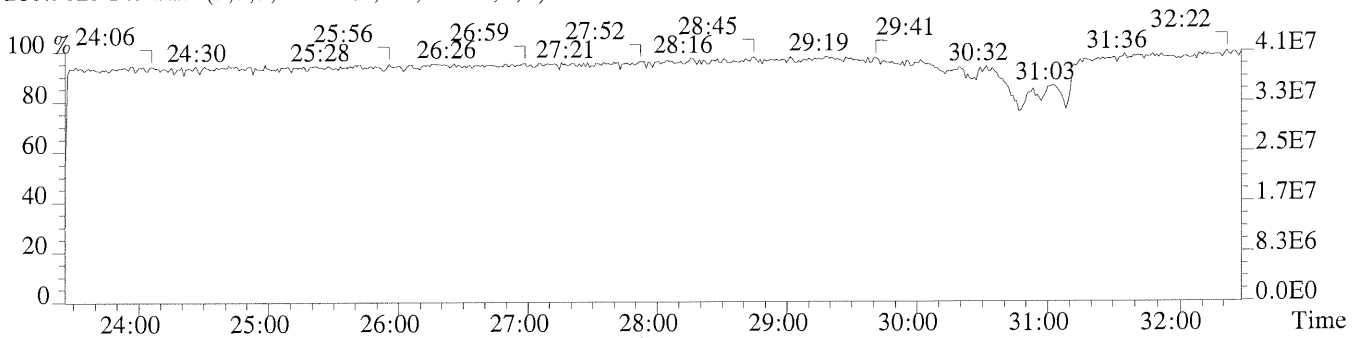
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1752.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,652.0,1.00%,F,T)

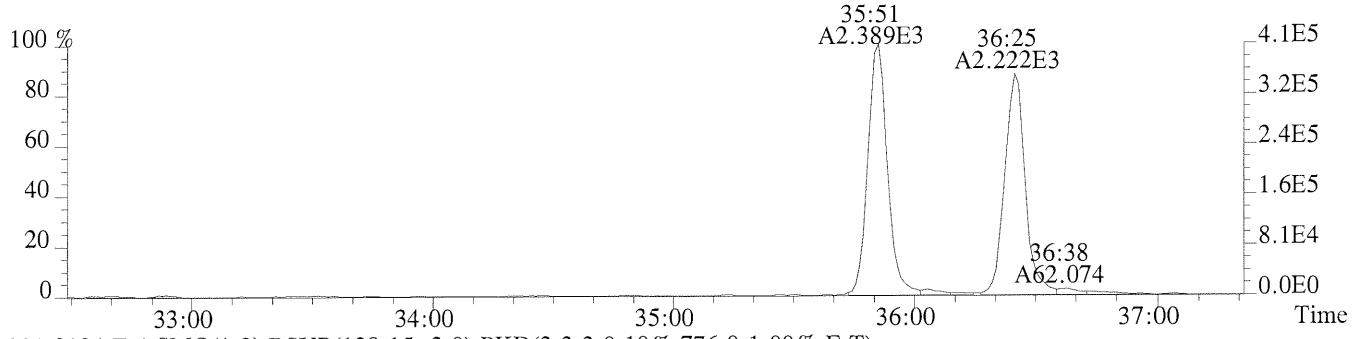


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

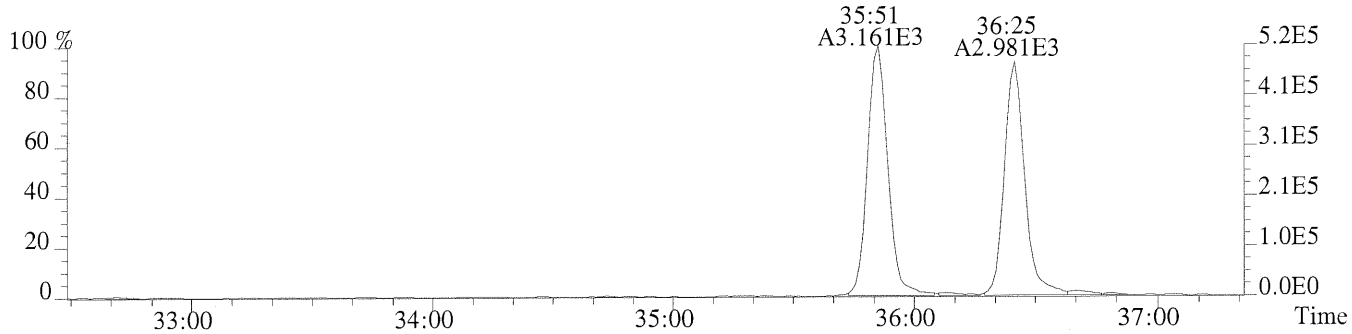


File:U142149 #1-312 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

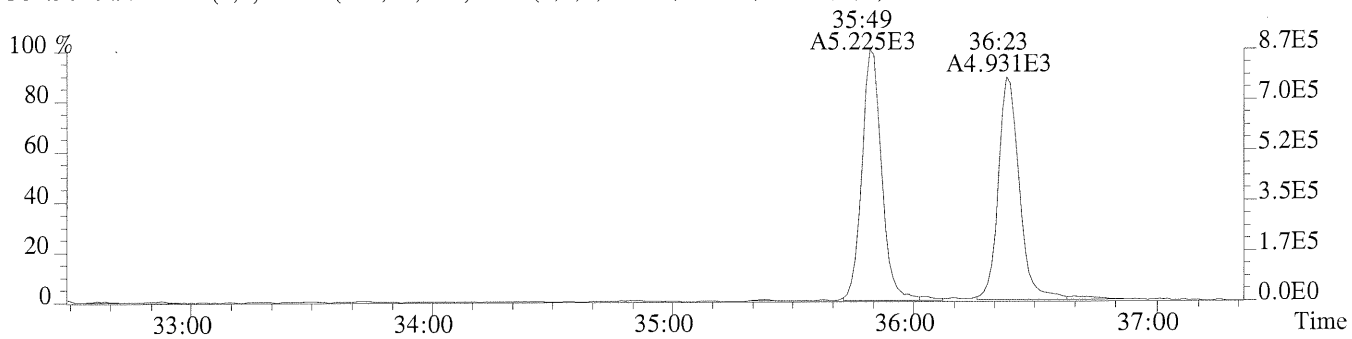
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,520.0,1.00%,F,T)



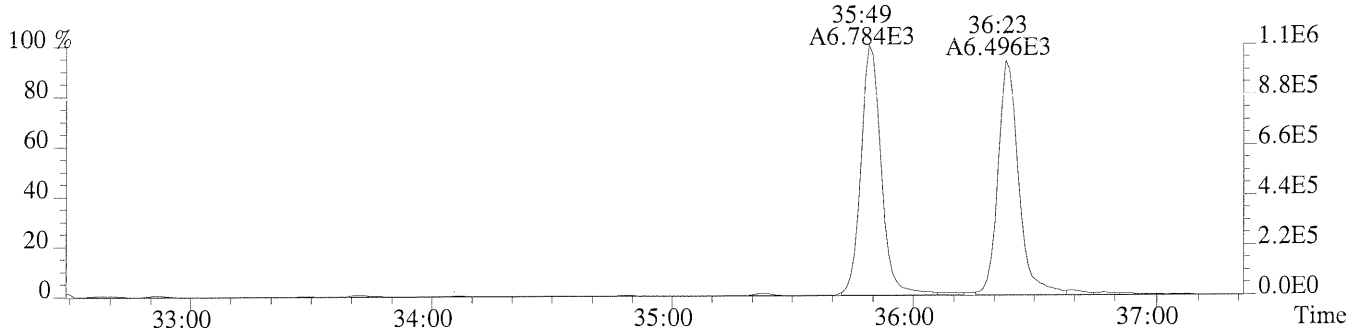
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



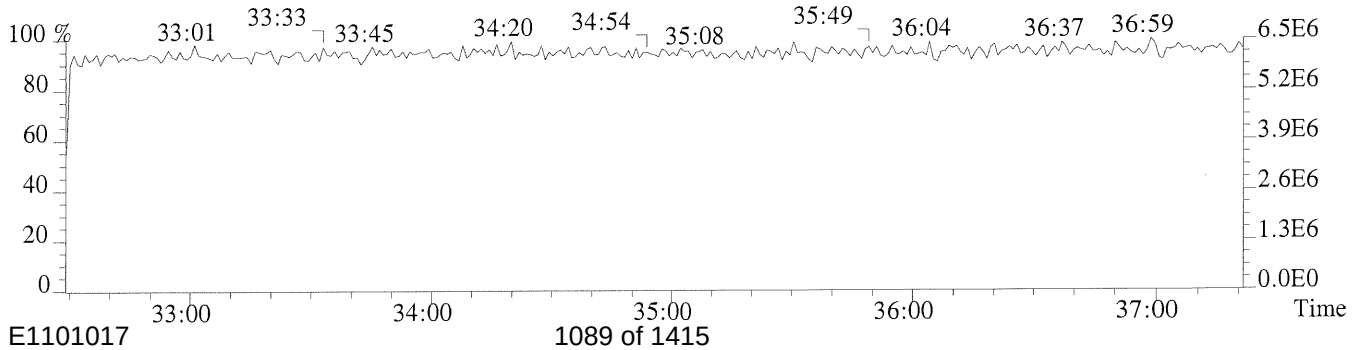
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1936.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,584.0,1.00%,F,T)

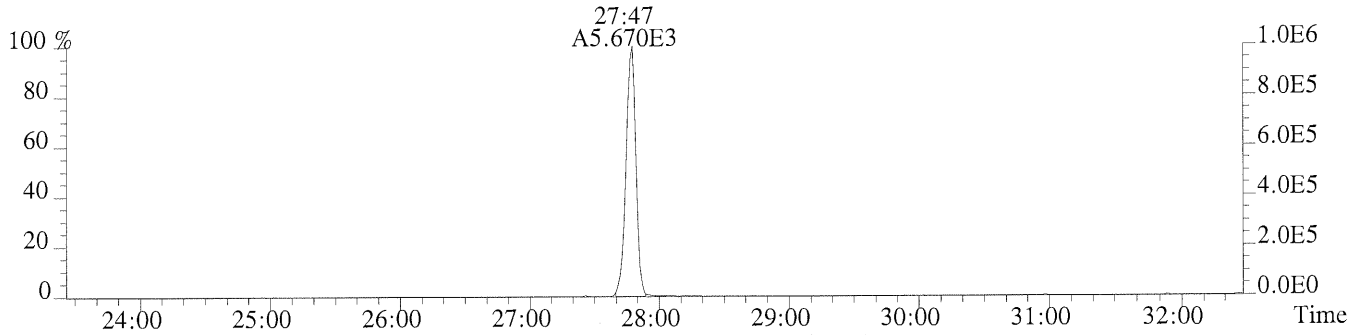


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

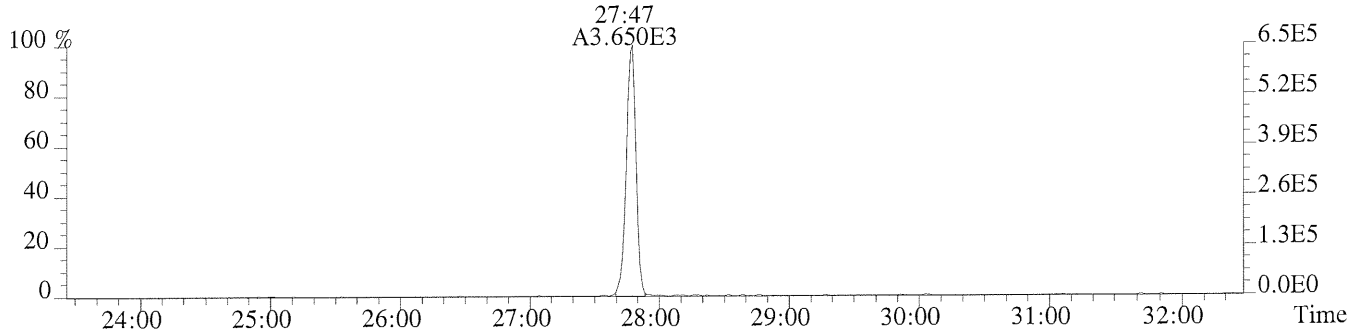


File:U142149 #1-578 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

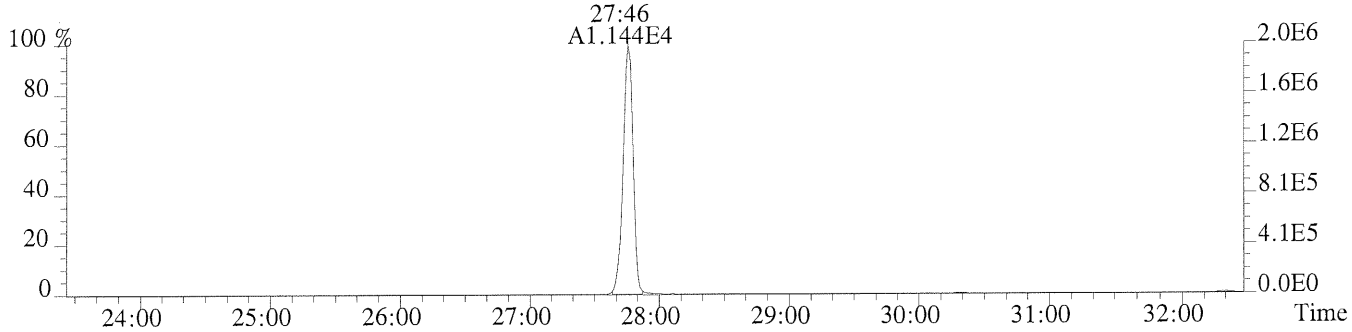
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,564.0,1.00%,F,T)



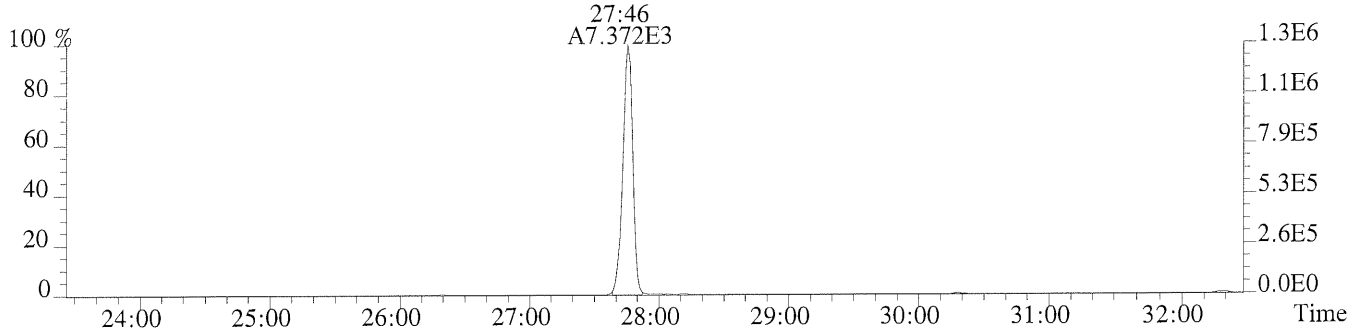
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,508.0,1.00%,F,T)



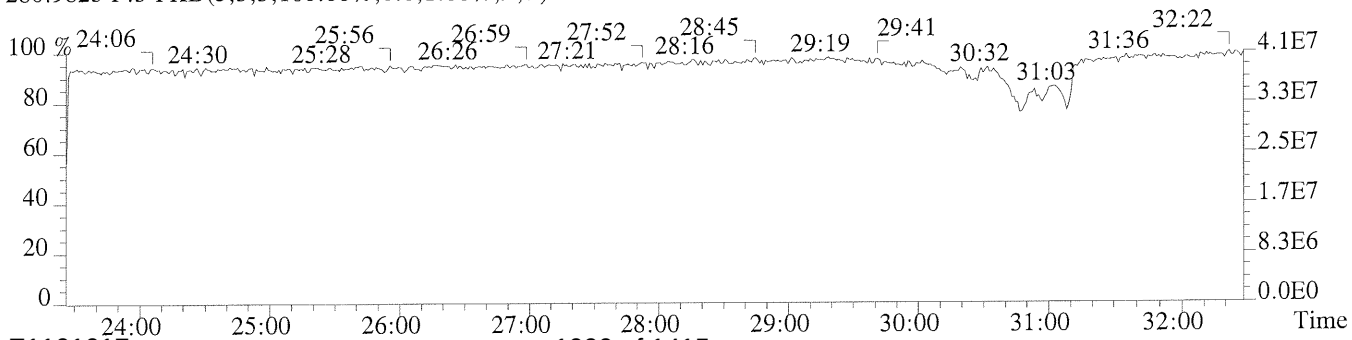
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,640.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,764.0,1.00%,F,T)

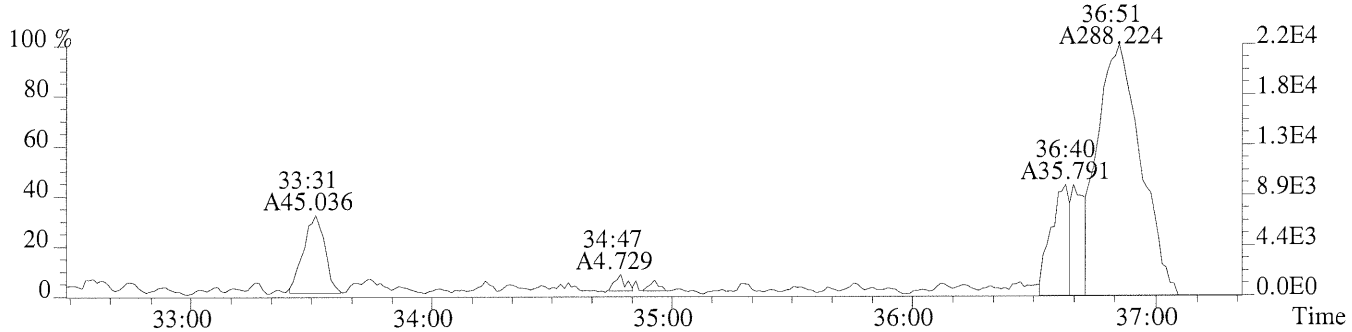


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

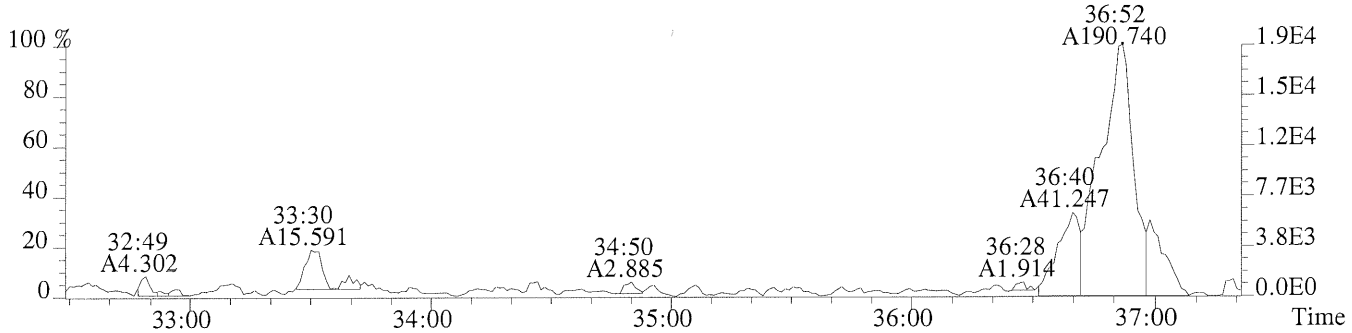


File:U142149 #1-312 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

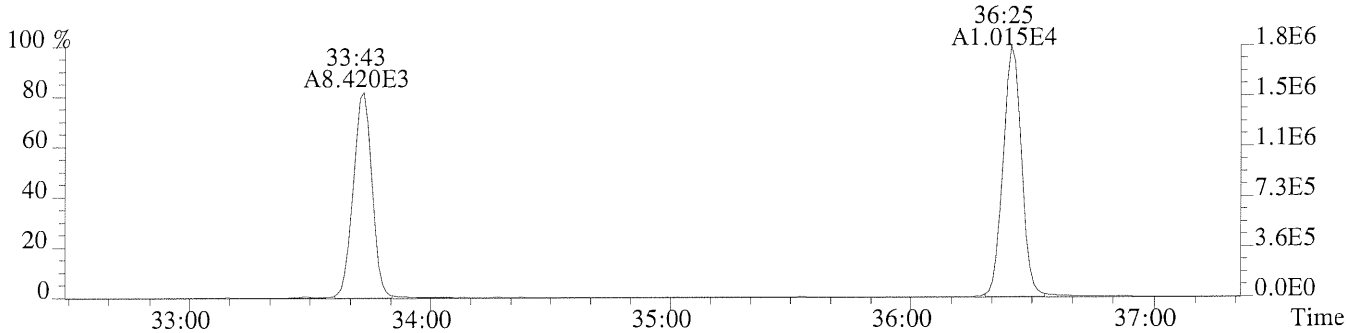
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,840.0,1.00%,F,T)



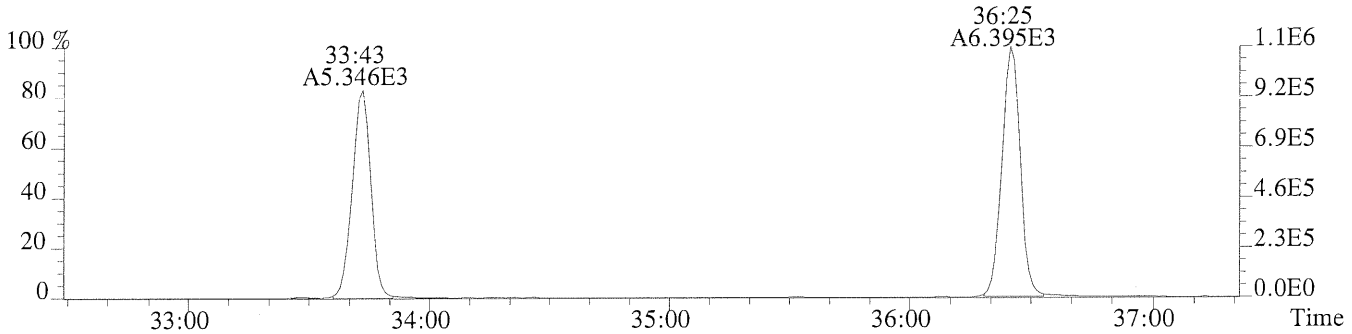
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,540.0,1.00%,F,T)



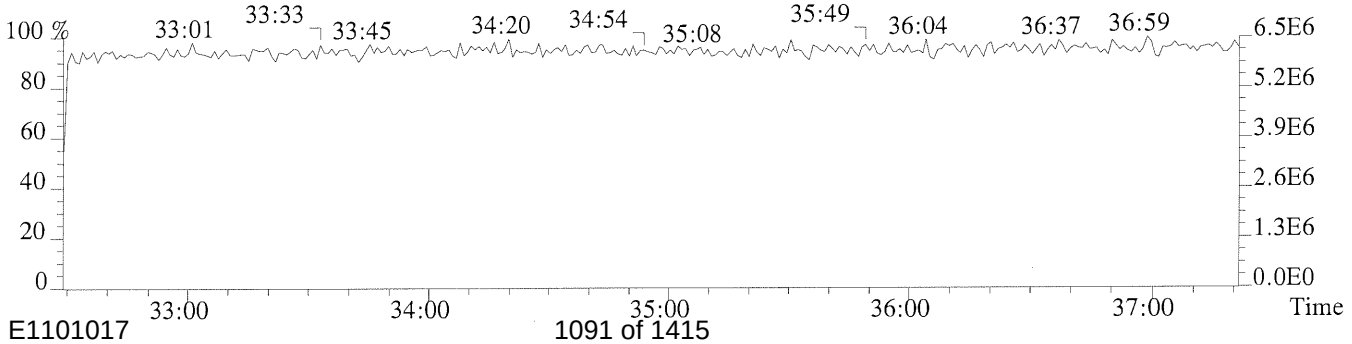
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1272.0,1.00%,F,T)

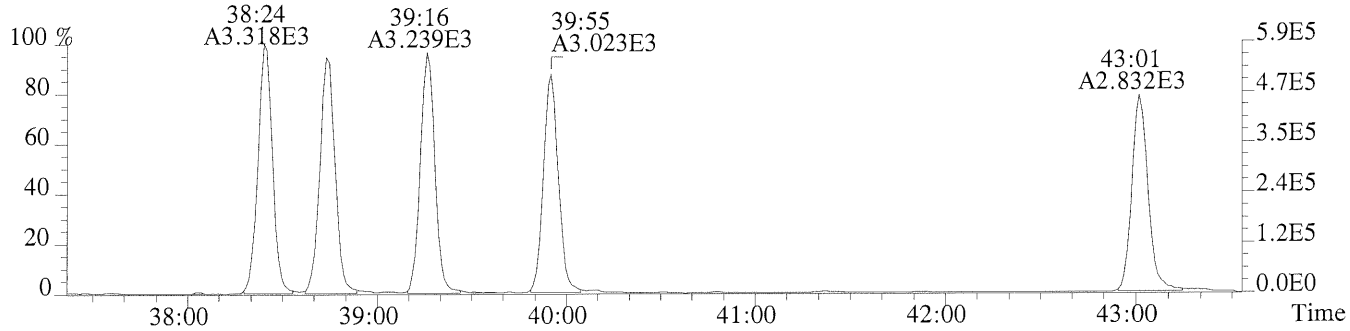


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

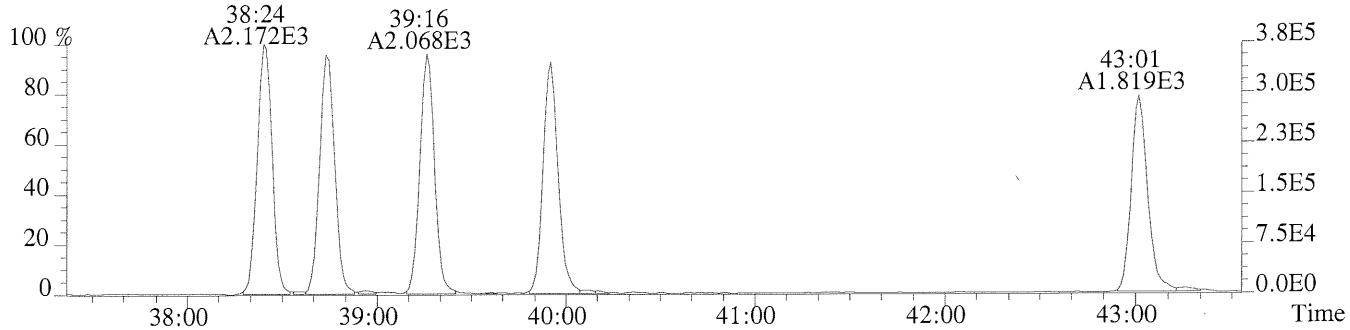


File:U142149 #1-396 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

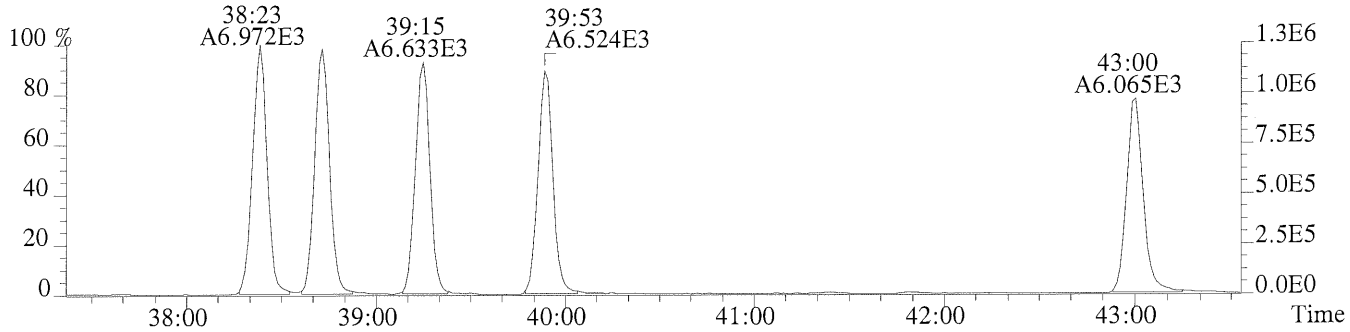
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2368.0,1.00%,F,T)



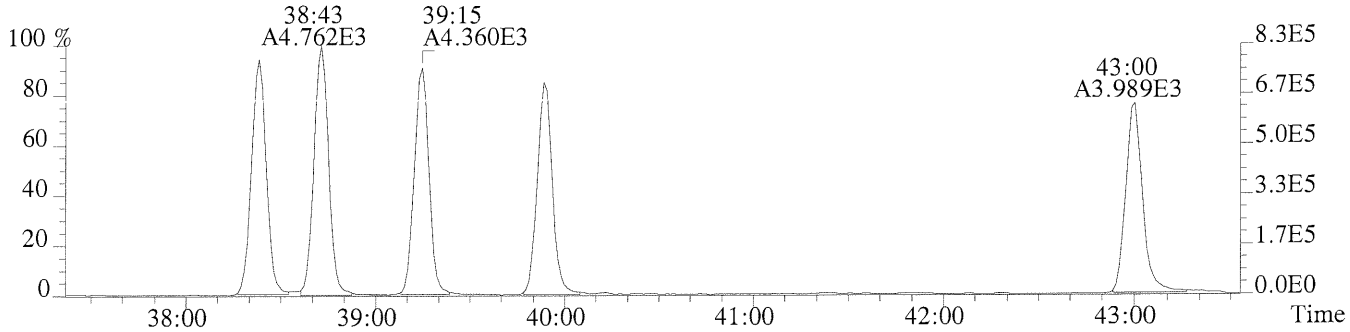
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1668.0,1.00%,F,T)



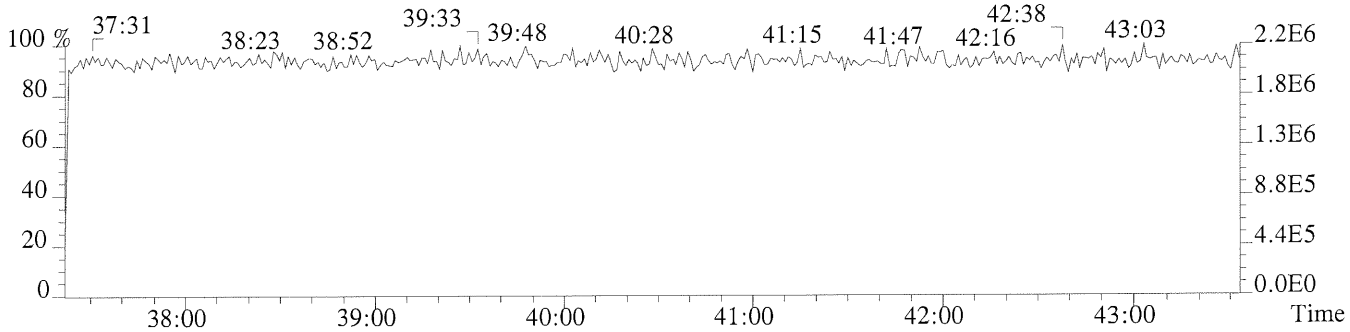
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6020.0,1.00%,F,T)



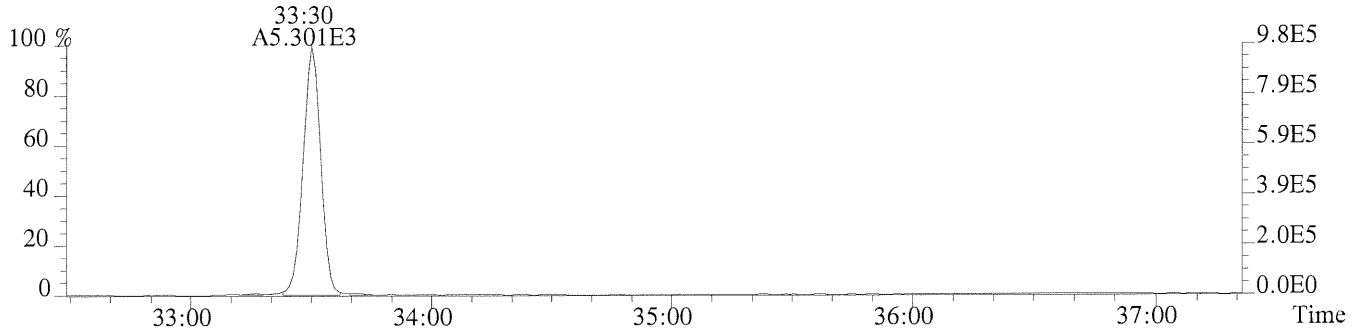
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3728.0,1.00%,F,T)



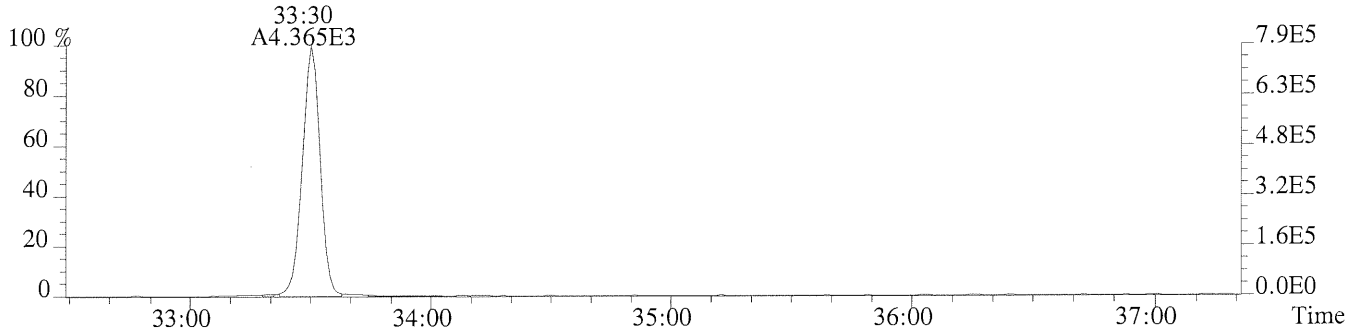
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



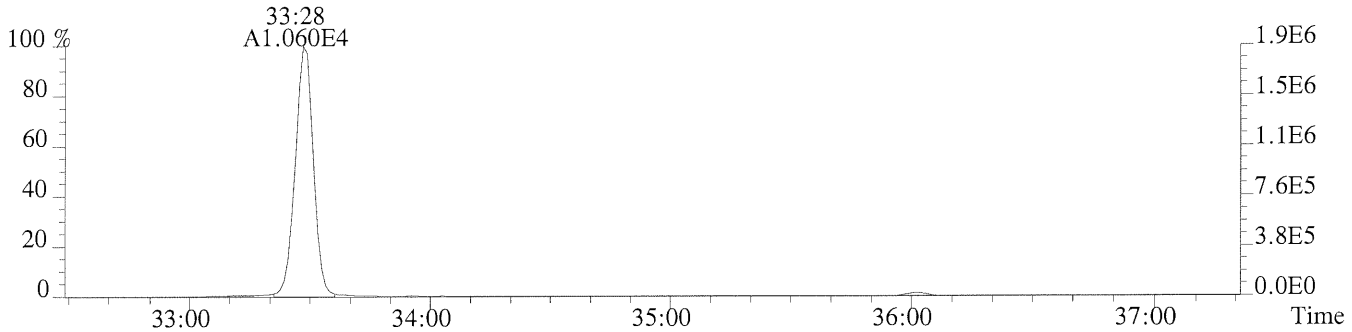
File:U142149 #1-312 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1888.0,1.00%,F,T)



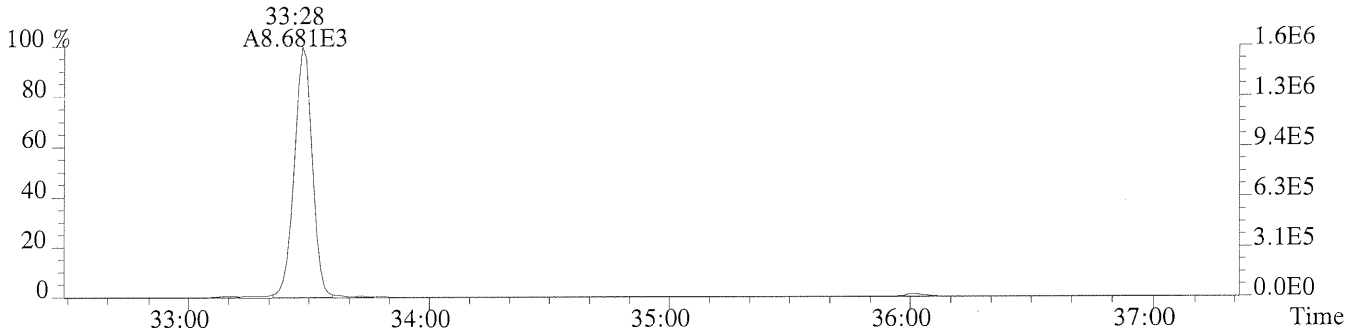
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



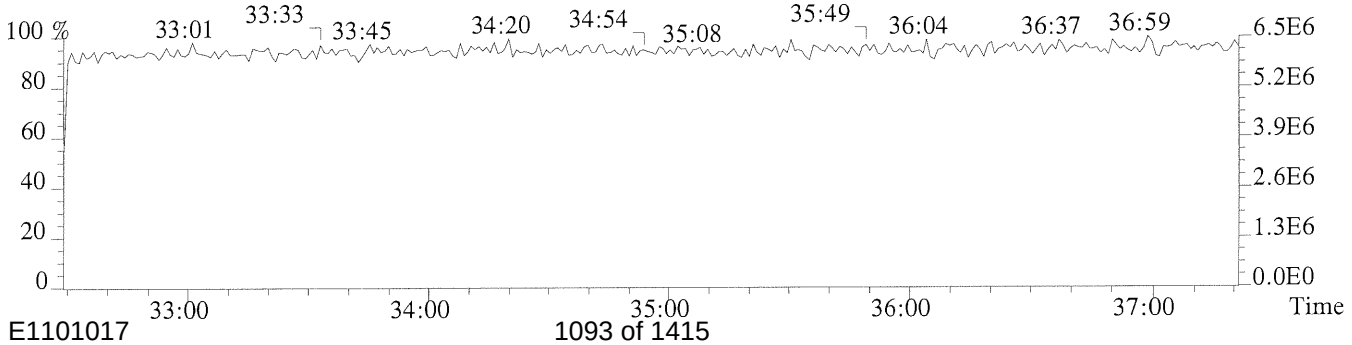
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,792.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,824.0,1.00%,F,T)

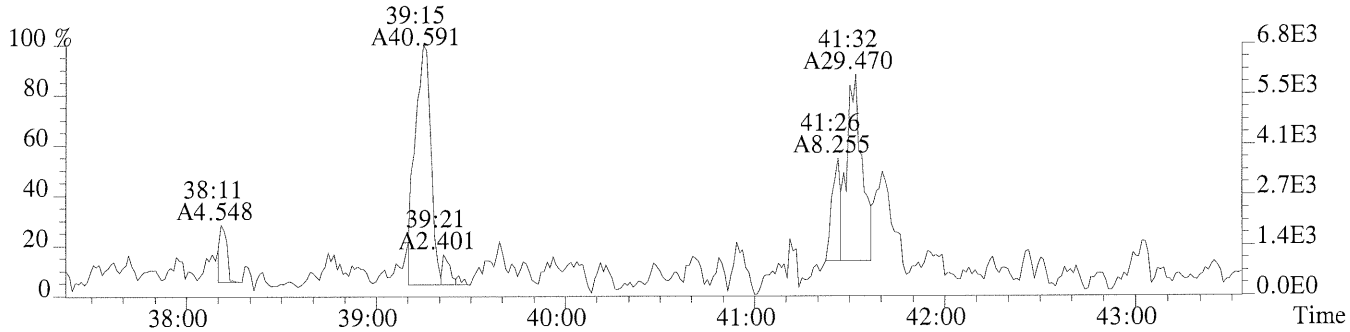


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

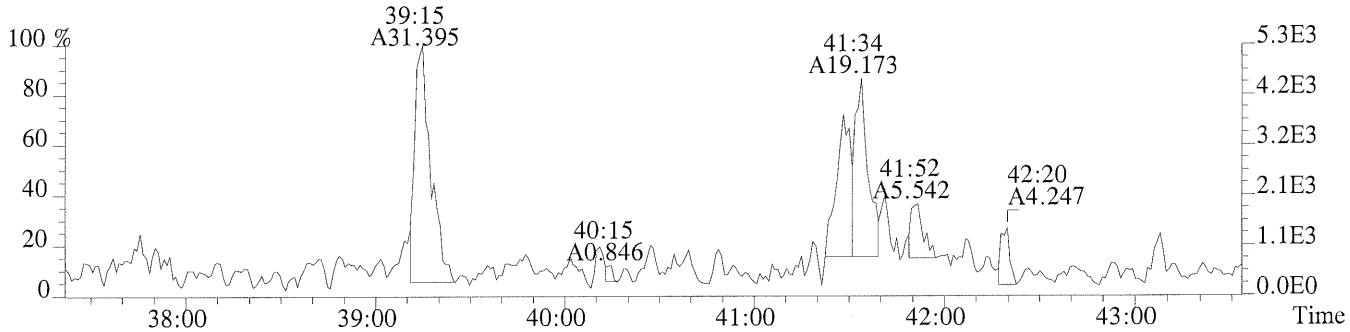


File:U142149 #1-396 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

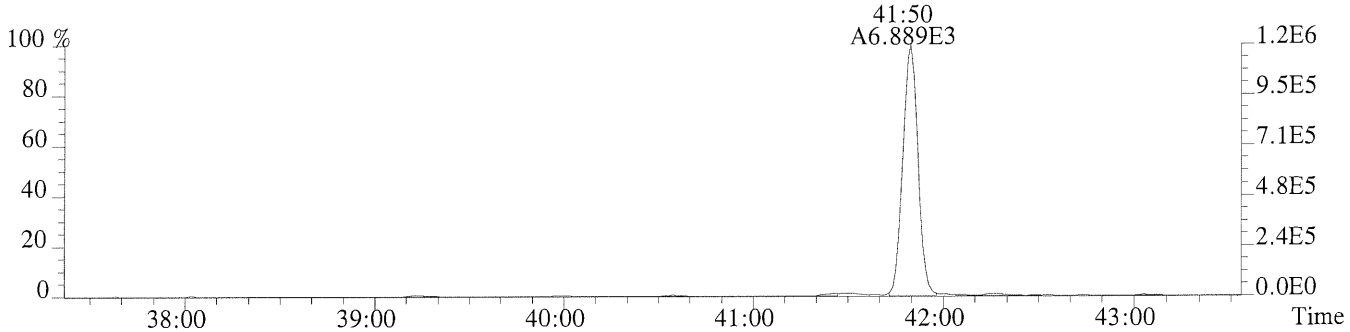
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



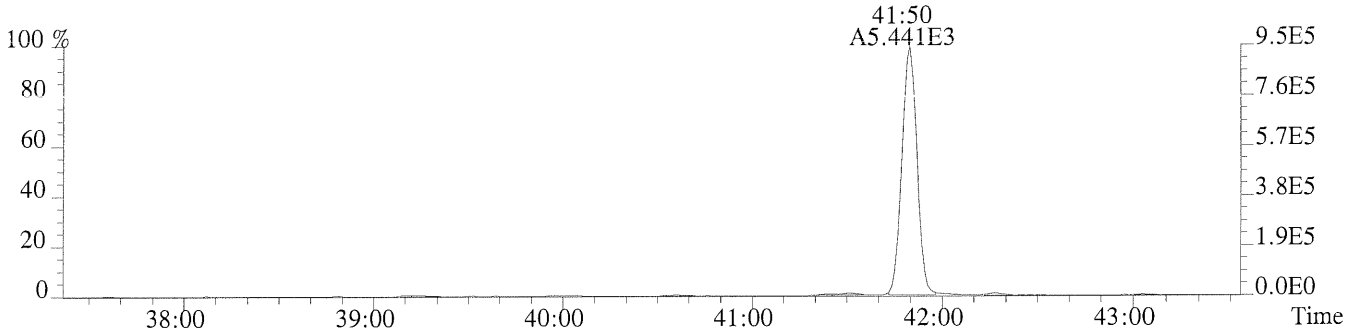
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,676.0,1.00%,F,T)



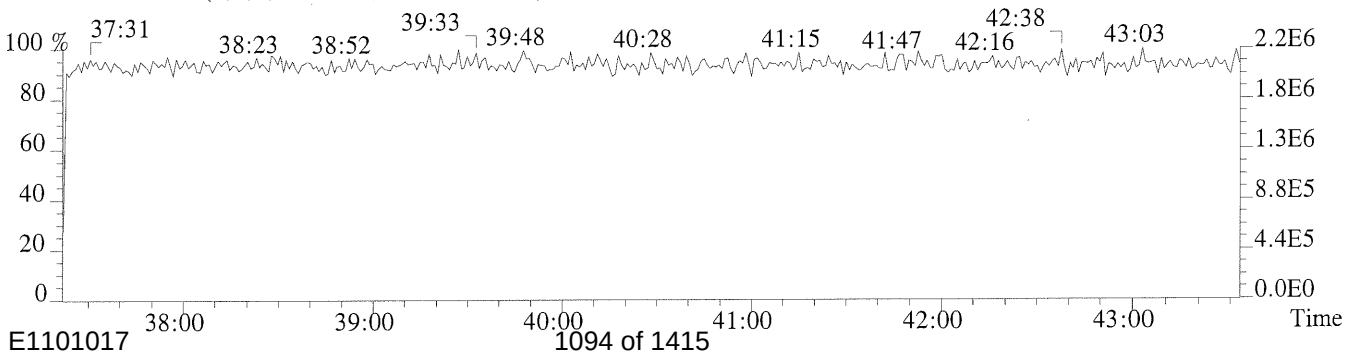
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,728.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)

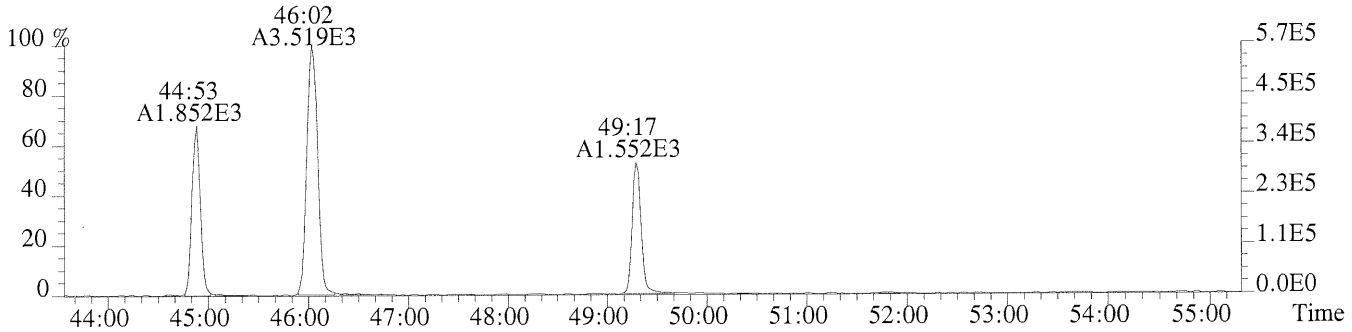


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

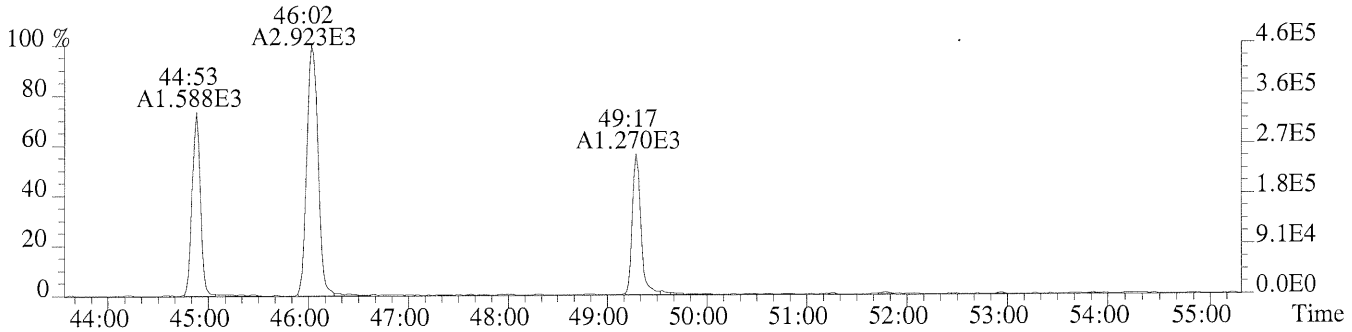


File:U142149 #1-582 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

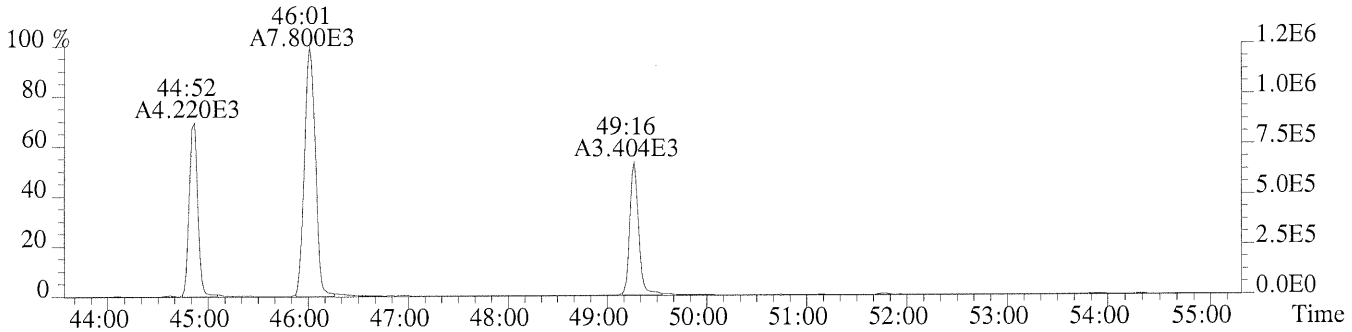
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



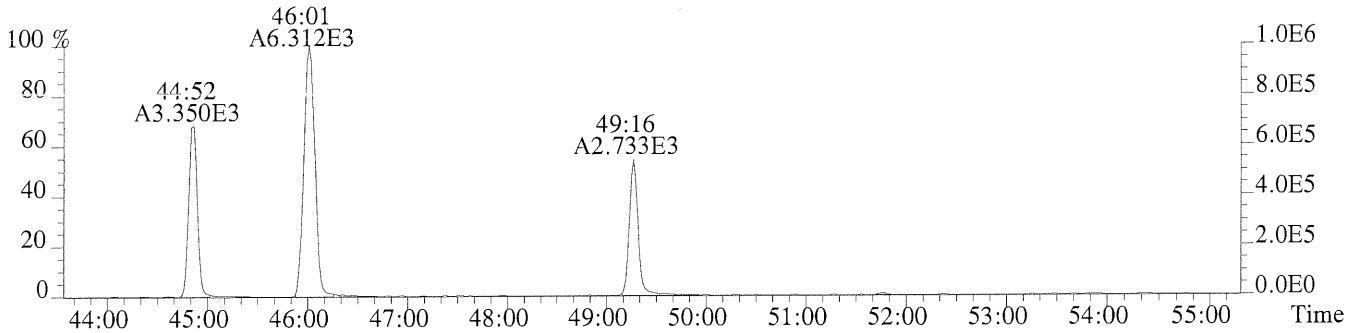
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,564.0,1.00%,F,T)



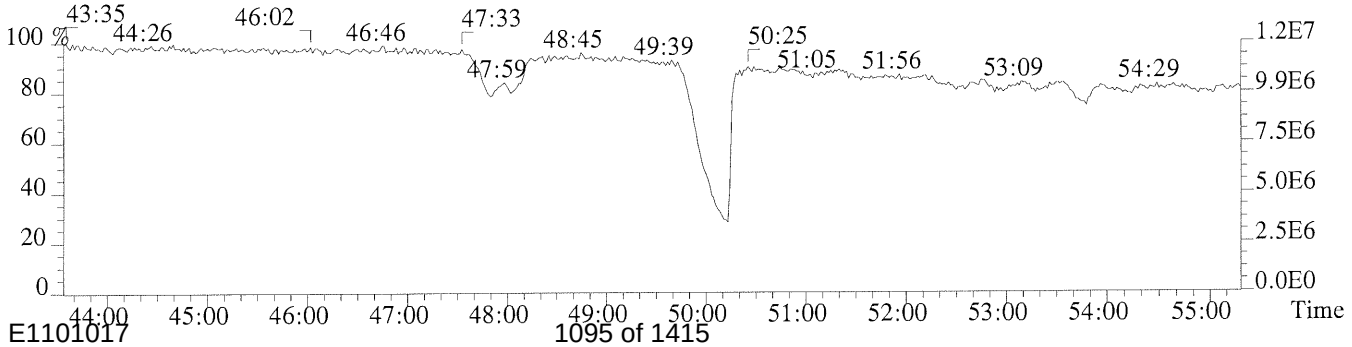
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)

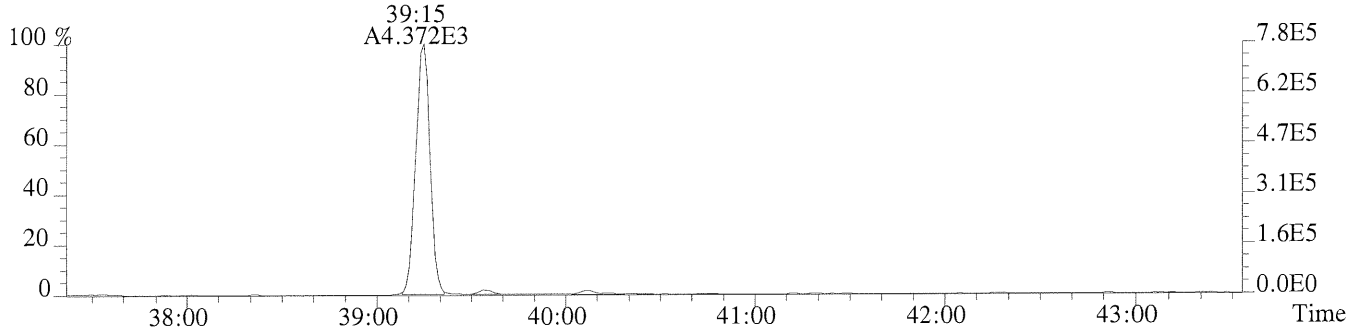


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

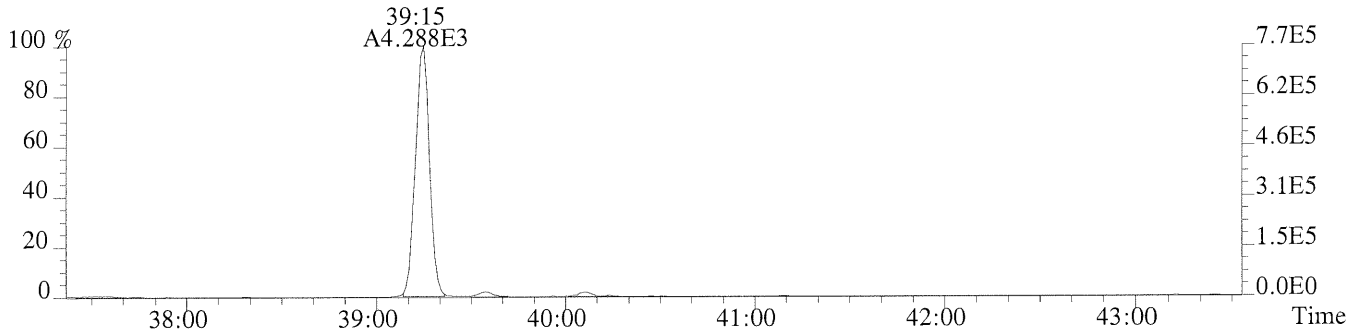


File:U142149 #1-396 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

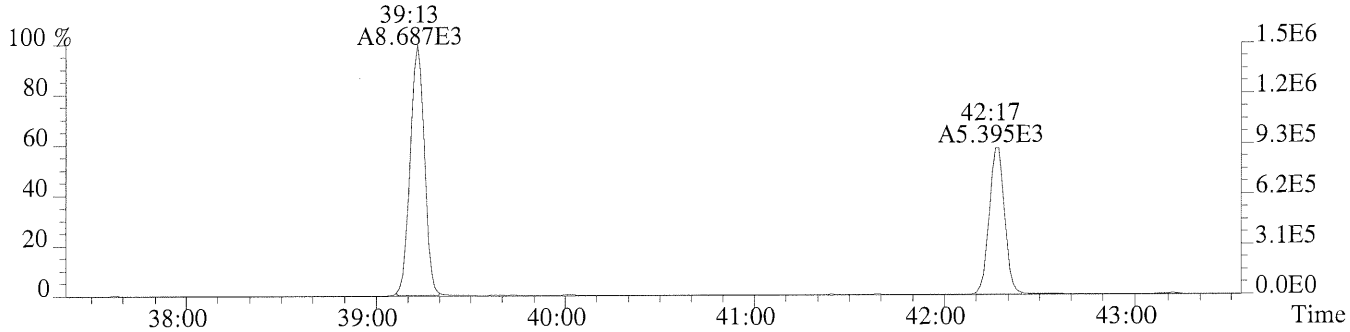
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



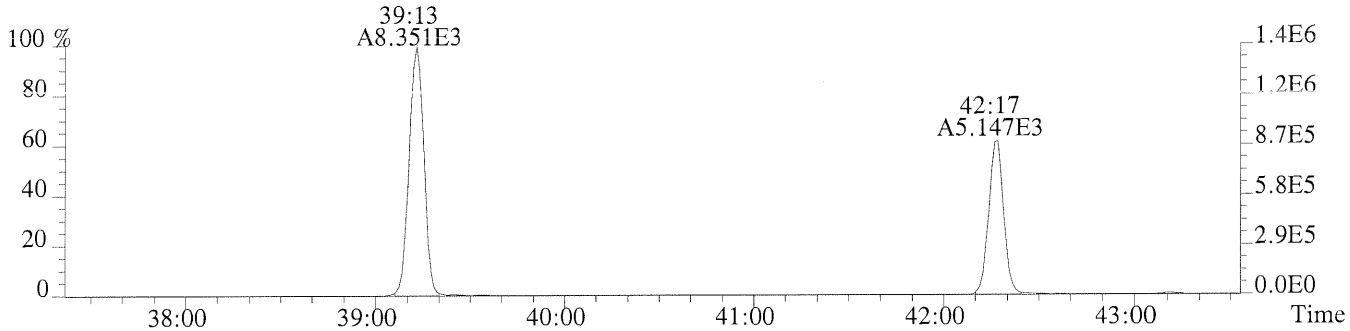
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,616.0,1.00%,F,T)



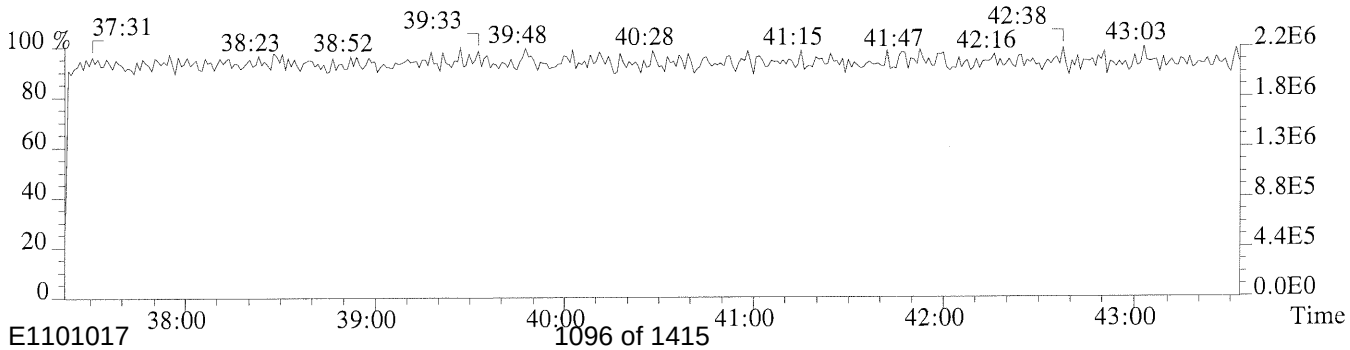
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1312.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)

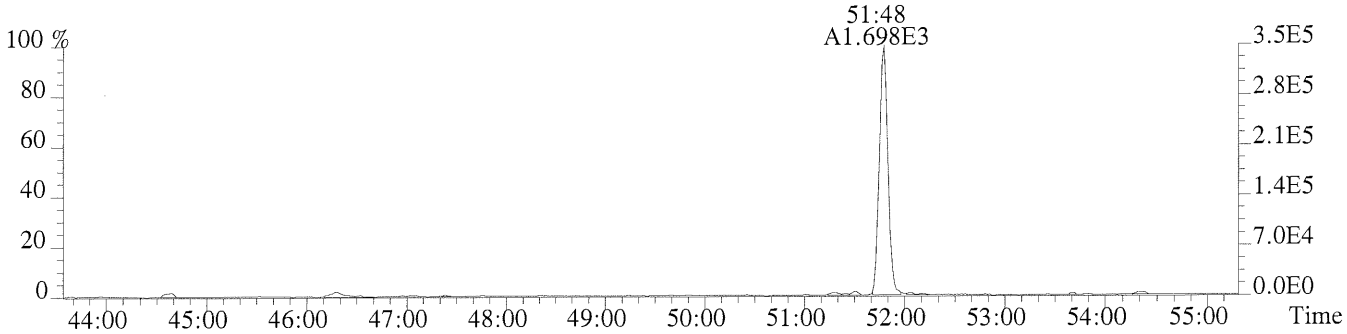


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

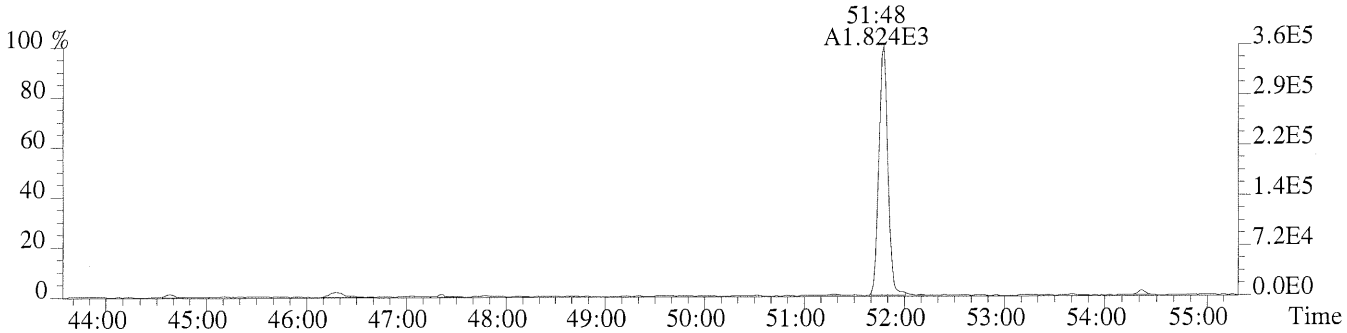


File:U142149 #1-582 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

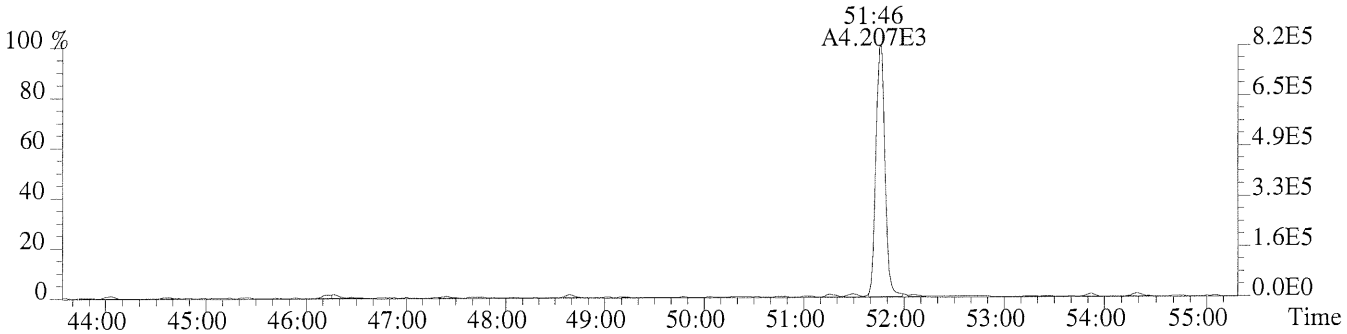
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1052.0,1.00%,F,T)



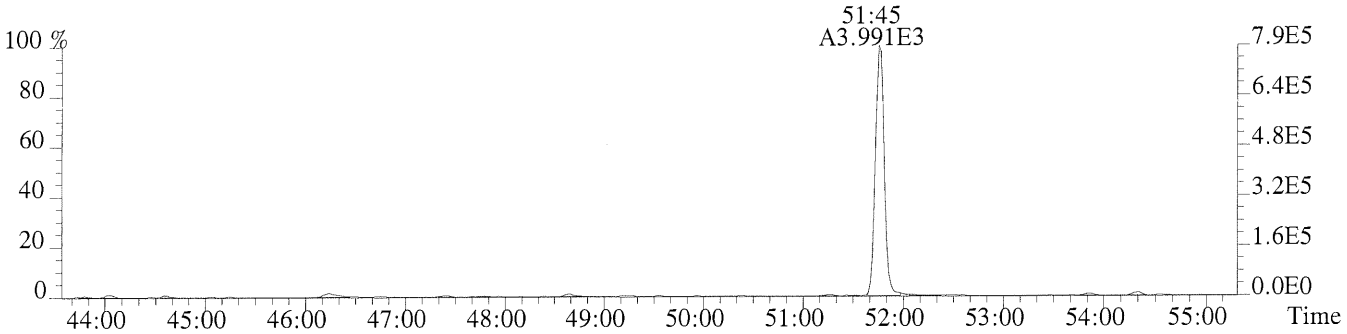
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,708.0,1.00%,F,T)



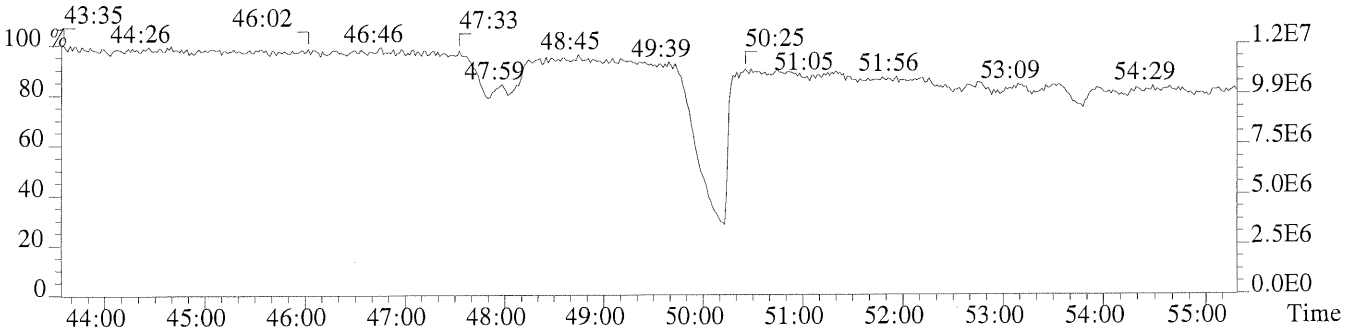
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1048.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)

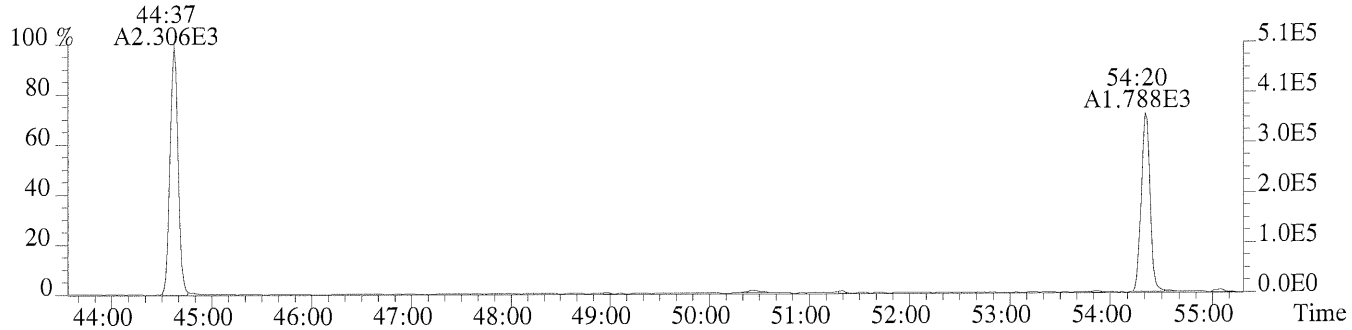


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

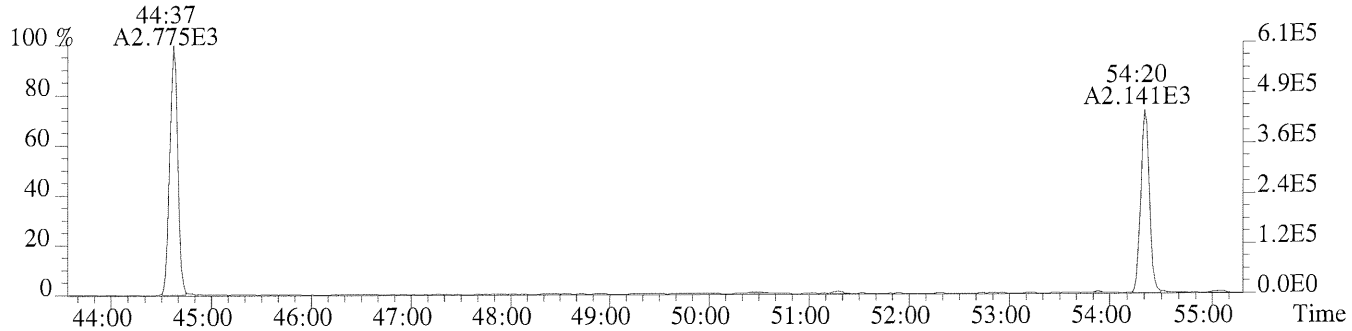


File:U142149 #1-582 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

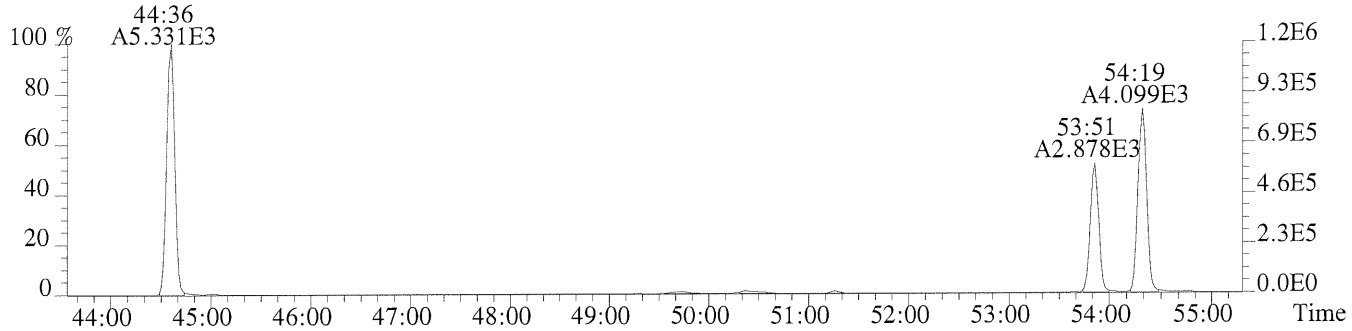
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1044.0,1.00%,F,T)



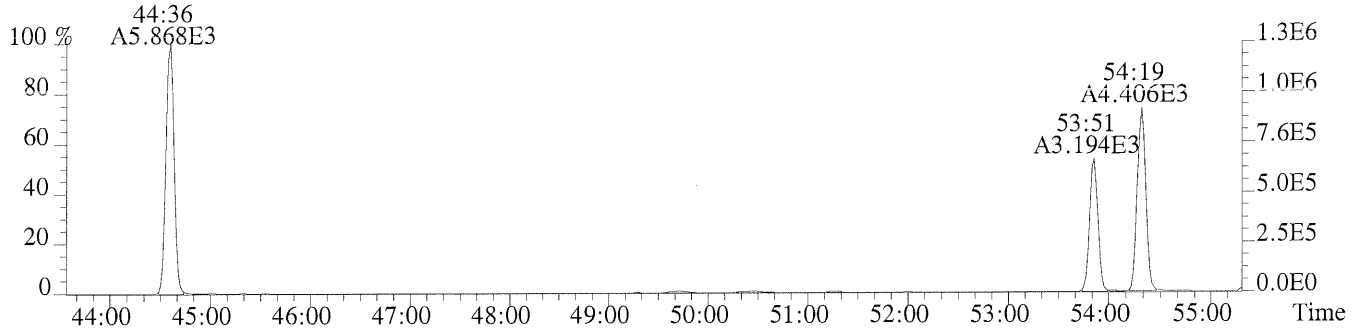
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1116.0,1.00%,F,T)



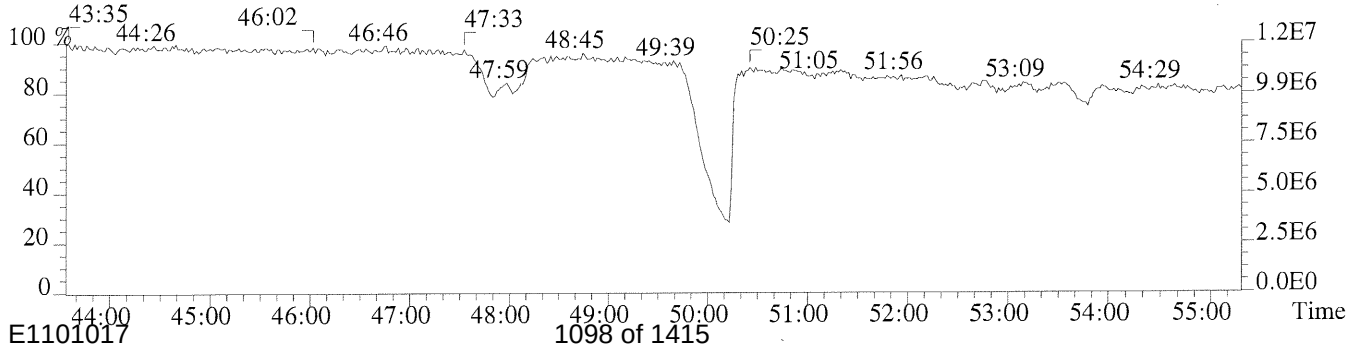
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1020.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,688.0,1.00%,F,T)

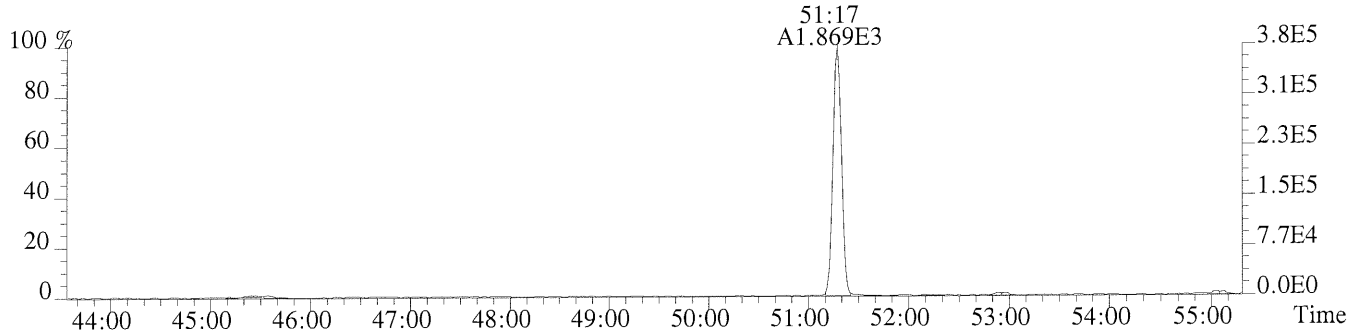


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

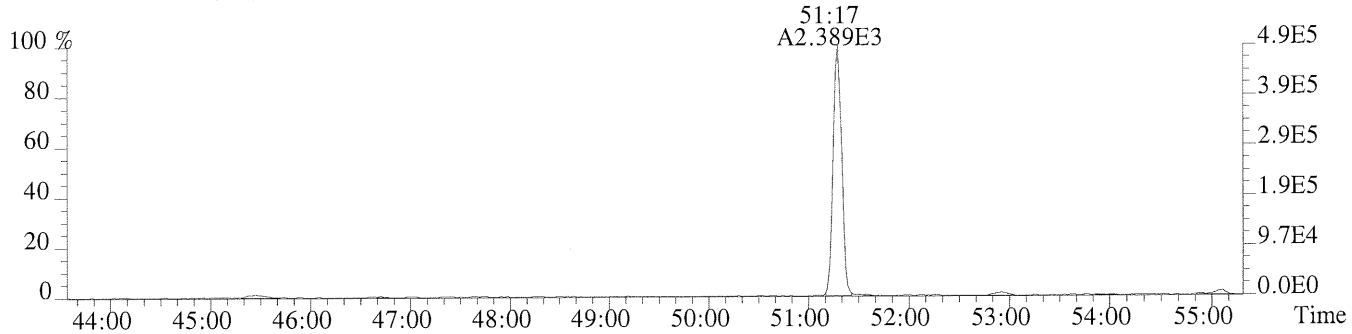


File:U142149 #1-582 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

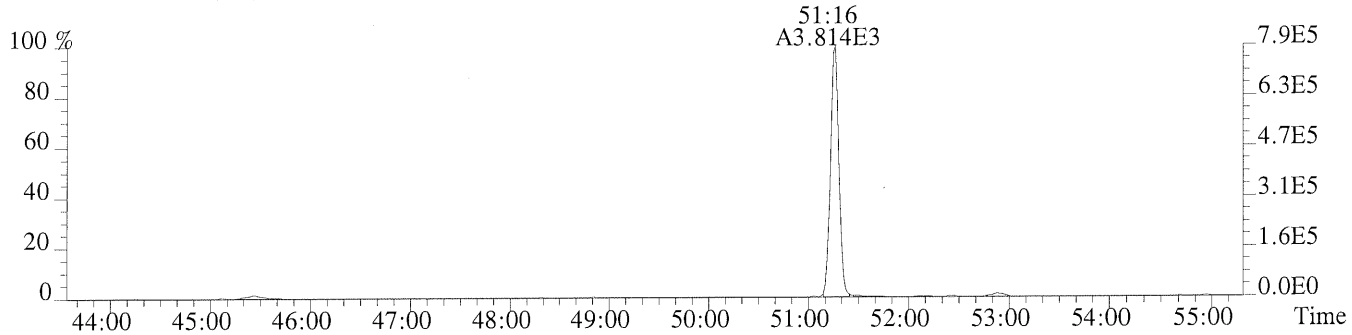
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,628.0,1.00%,F,T)



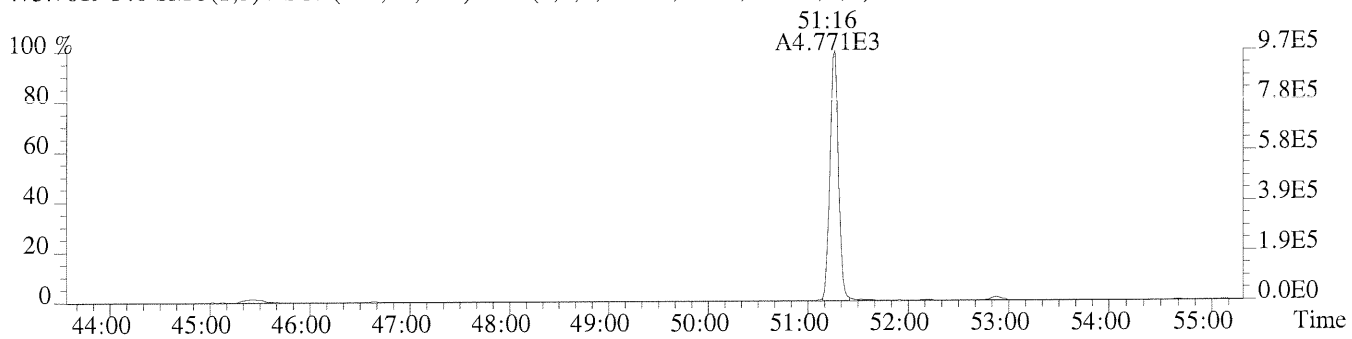
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,676.0,1.00%,F,T)



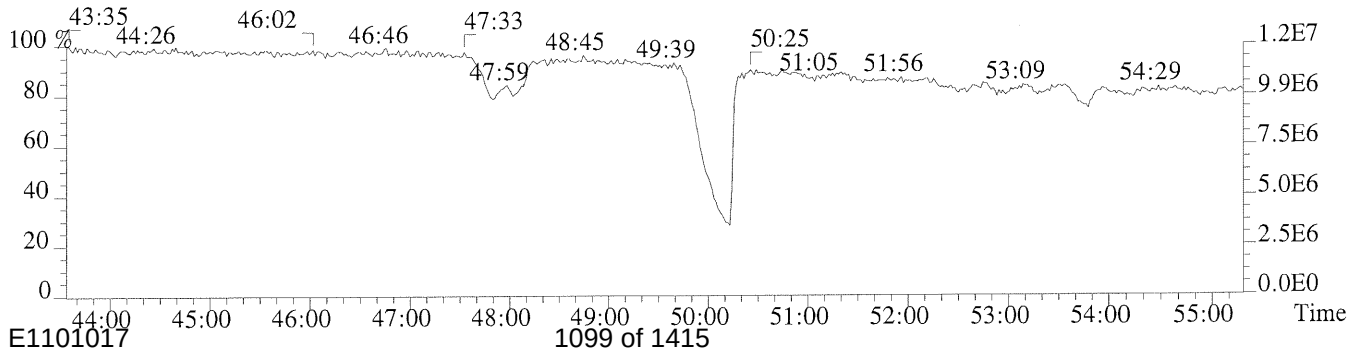
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,560.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,500.0,1.00%,F,T)

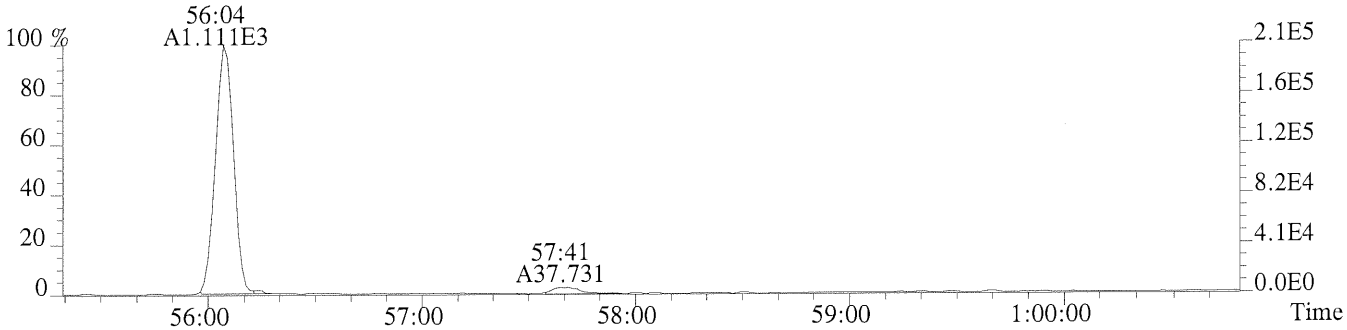


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

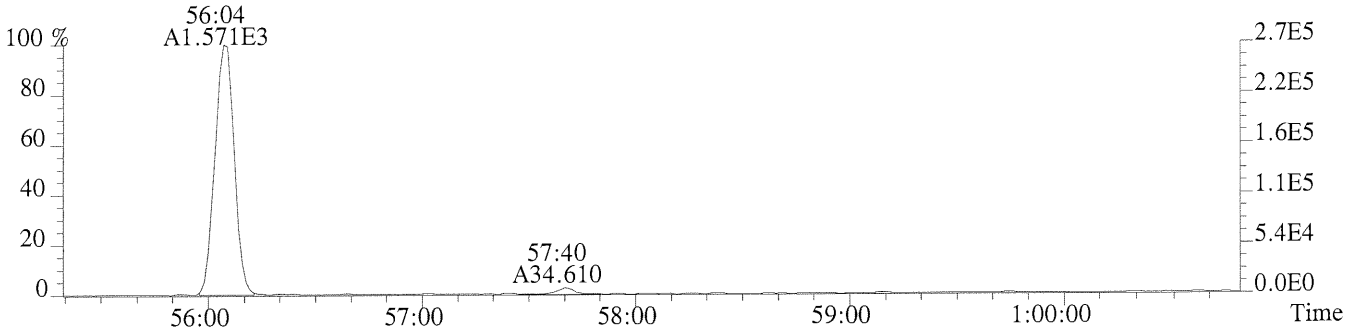


File:U142149 #1-310 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

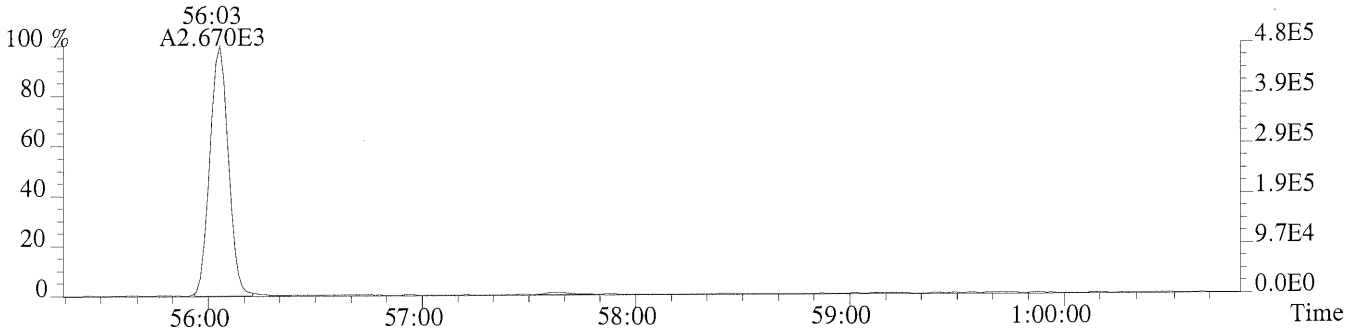
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



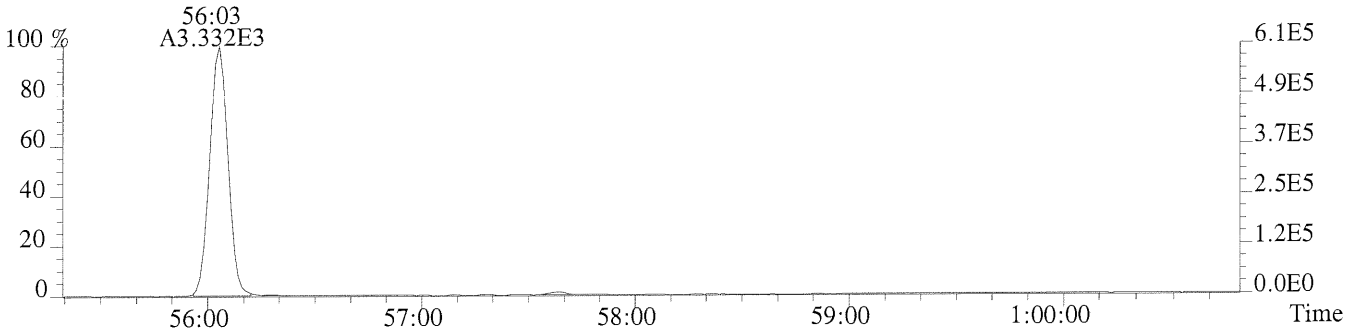
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)



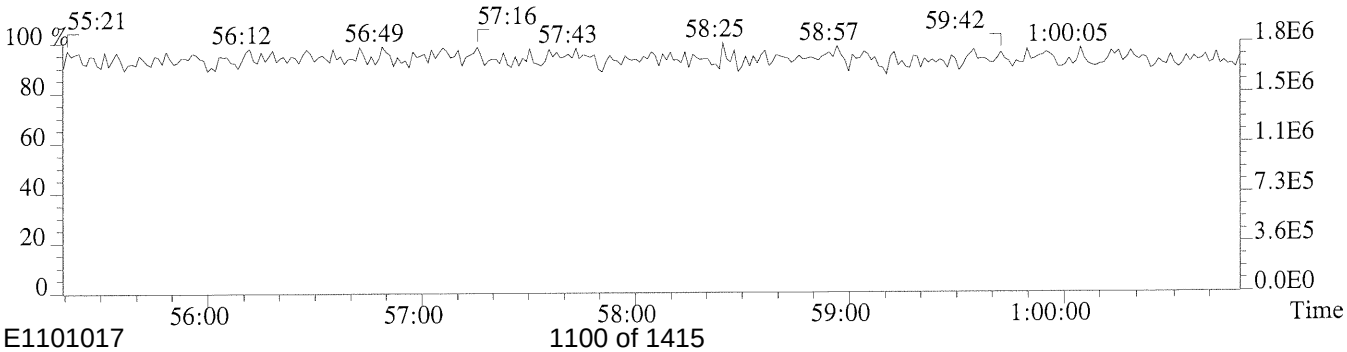
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,632.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1412.0,1.00%,F,T)

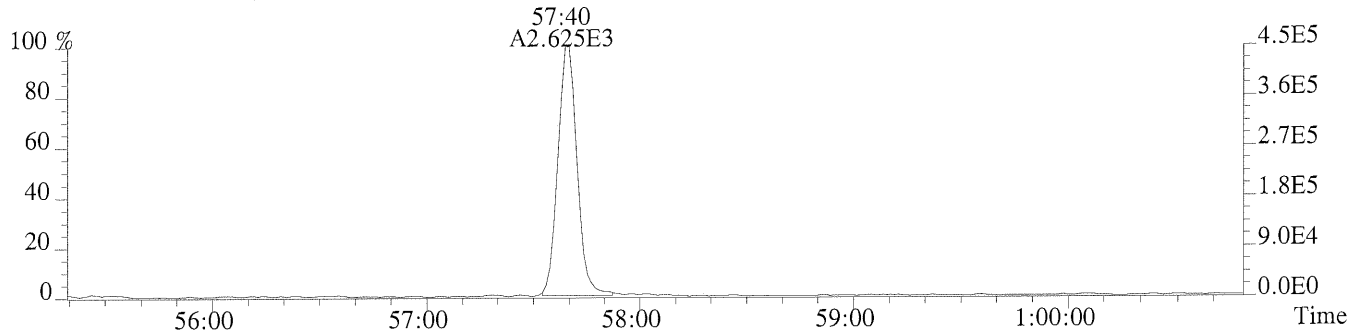


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

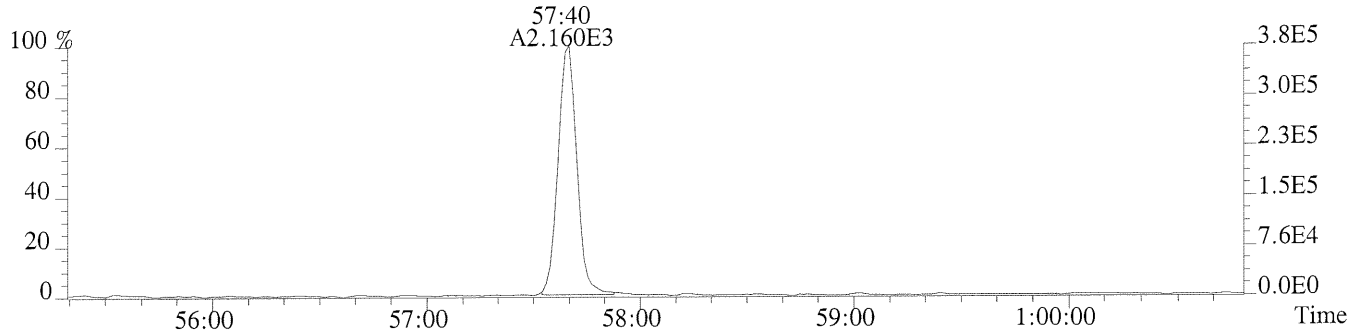


File:U142149 #1-310 Acq:21-NOV-2011 12:58:21 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

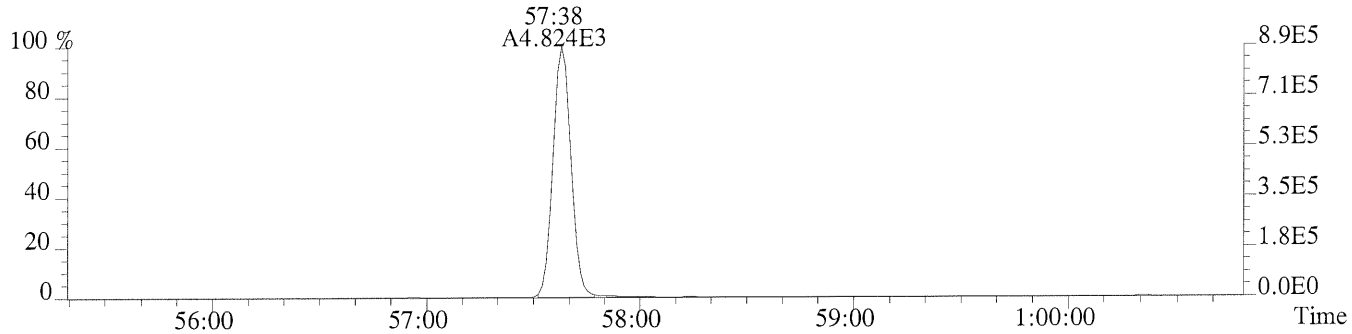
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3164.0,1.00%,F,T)



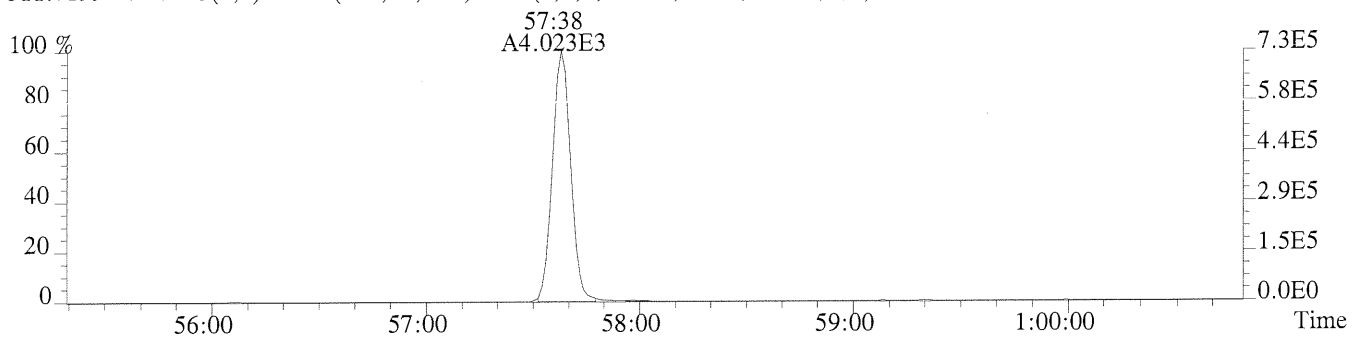
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2640.0,1.00%,F,T)



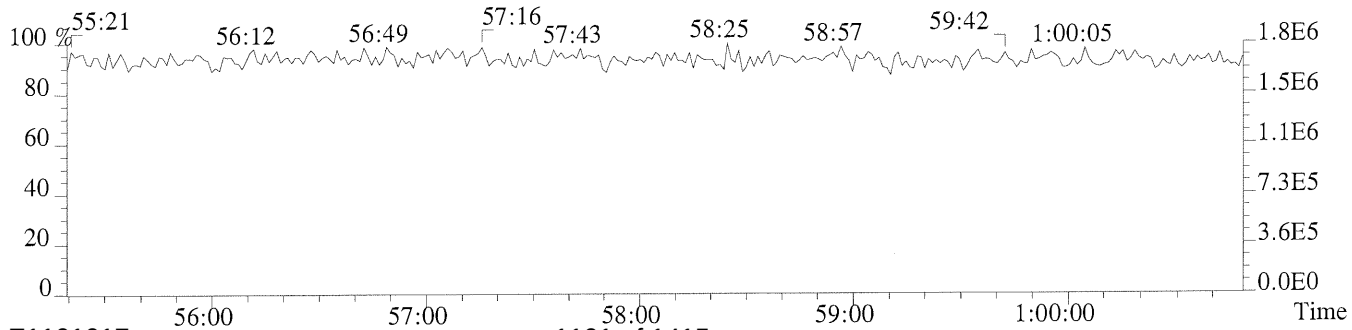
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,644.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



RW/CS3 Daily Calibration QC Checklist

Calibration File Name: U142188

Circle one
Beginning **Ending**

Date: 28 Nov 11

Method: **1668 WHO** **1668 Total** **1668 (209)** **1668 WHO & TOTAL**

Date	11/30/11	**First Reviewer**	Cee

Date	12/01/11	**Second Reviewer**	

5DFC
PCDD/PCDF/PCB ANALYTICAL SEQUENCE SUMMARY

Lab Name: Columbia Analytical Services Contract:

Lab Code: TX01411 Case No.: SDG No.:

GC Column: SPB-OCTYL ID: 0.25 (mm) Instrument ID: E-HRMS-01

Init. Calib. Date: 02/23/11

Init. Calib.Times: 09:22

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, AND LABORATORY CONTROL SAMPLES (LCSs) IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CCAL CS3	CCAL CS3	U142188	28-NOV-11	06:59:07
LCS	EQ1100544-02	U142194	28-NOV-11	14:13:20
DLCS	EQ1100544-03	U142195	28-NOV-11	15:49:58

Sample List Report MassLynx 4.1

Sample List: C:\MassLynx\CASHOUSTON.PRO\SampleDB\U1111128.SPL
Last Modified: Monday, November 28, 2011 15:32:51 Central Standard Time
Printed: Monday, November 28, 2011 15:48:57 Central Standard Time

C: U142188CAL/RES/SURR

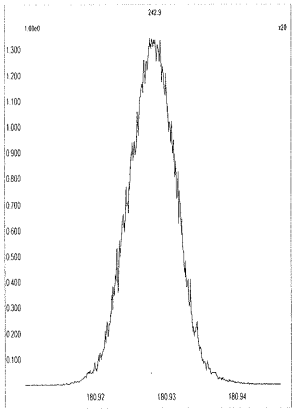
	Date	Time	File Name	Sample ID	Client ID	Analyst	Comments	GC Met	Acq Met
1	11/28/11	05:24	U142187	PCB 209 INJECTION	B4-25-1	B	HRMS Check 05:21	1668EPA	1668EPA
2		06:59	U142188	CCAL CS3	B2-26-1			1668EPA	1668EPA
3		08:38	U142189	EQ1100519-01	MB		HRMS Check 08:32	1668EPA	1668EPA
4		09:45	U142190	E1100995-001	jp: 300760-5039			1668EPA	1668EPA
5		10:48	U142191	E1101038-001	2 boxes trout whole fish			1668EPA	1668EPA
6		12:02	U142192	E1101023-003	SPE068TIS-30G			1668EPA	1668EPA
7		13:05	U142193	E1101017-011	B4-Dup-PCBs			1668EPA	1668EPA
8		14:13	U142194	EQ1100~~517-02~~ 544-02	LCS			1668EPA	1668EPA
9		15:49	U142195	EQ1100~~517-03~~ 544-03	DLCS			1668EPA	1668EPA
10		16:51	U142196	EQ1100~~517-01~~ MB	MB		HRMS Check 18:23	1668EPA	1668EPA
11			---	--- 544-01	---			1668EPA	1668EPA
12			---	---	---			1668EPA	1668EPA
13			---	--- ce	---			1668EPA	1668EPA
14			---	--- 11/30/11	---			1668EPA	1668EPA
15			---	---	---			1668EPA	1668EPA
16			---	---	---			1668EPA	1668EPA
17			---	---	---			1668EPA	1668EPA
18			---	---	---			1668EPA	1668EPA
19			---	---	---			---	---
20			---	---	---			---	---
21			---	---	---			TCDFCAS	TCDFCAS
22			---	---	---			1668EPA	1668EPA
23			---	---	---			---	---
24			---	---	---			---	---
25			---	---	---			TCDFCAS	TCDFCAS
26			---	---	---			TCDFCAS	TCDFCAS
27			---	---	---			1668EPA	1668EPA
28			---	---	---			1668EPA	1668EPA
29			---	---	---			8290cas	8290CAS
30			---	---	---			TCDFCAS	TCDFCAS
31			---	---	---			---	---
32			---	---	---			---	---
33	---	---	---	---	---	---	---	---	---
34	---	---	---	---	---	---	---	---	---
35	---	---	---	---	---	---	---	---	---
36	---	---	---	---	---	---	---	---	---
37	---	---	---	---	---	---	Reviewed By: ce	---	---
38	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	11/30/11	---	---

Experiment Calibration Report **MassLynx 4.1**

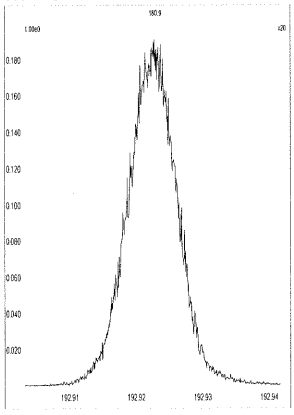
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 28, 2011 05:21:28 Central Standard Time

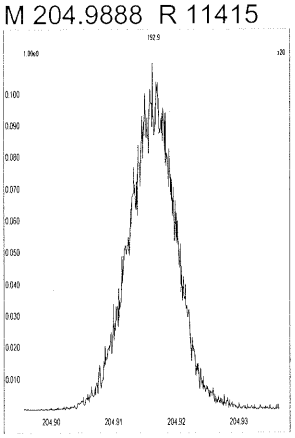
M 180.9888 R 11794



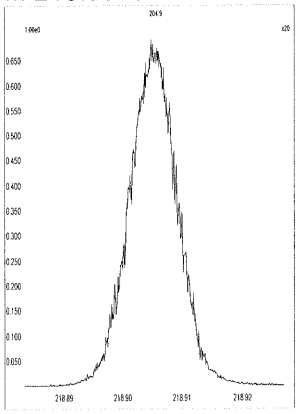
M 192.9888 R 11163



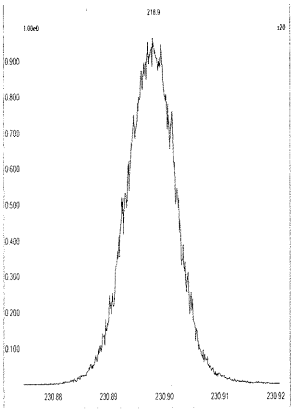
M 204.9888 R 11415



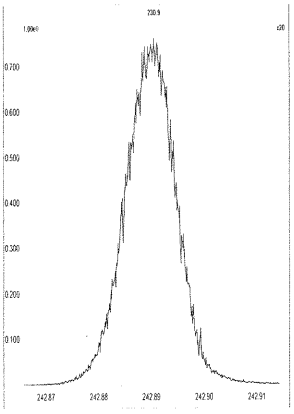
M 218.9856 R 11521



M 230.9856 R 11059



M 242.9856 R 11060

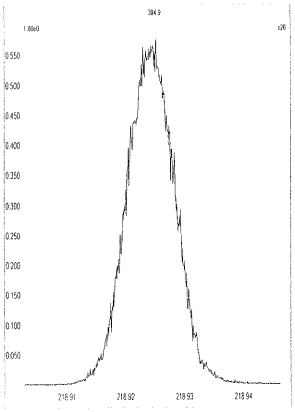


Experiment Calibration Report **MassLynx 4.1**

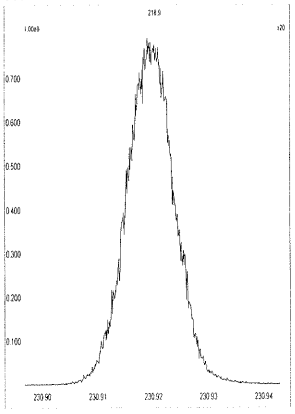
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 28, 2011 05:21:53 Central Standard Time

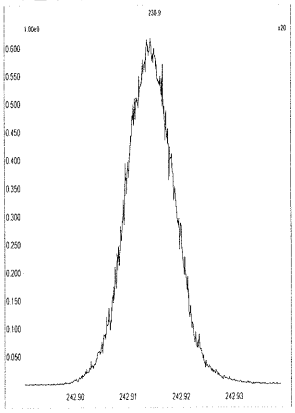
M 218.9856 R 11959



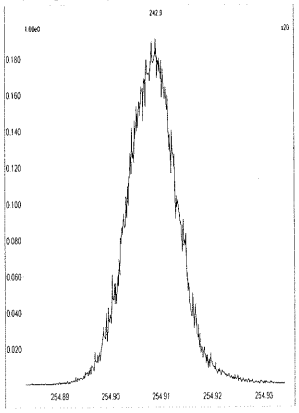
M 230.9856 R 11414



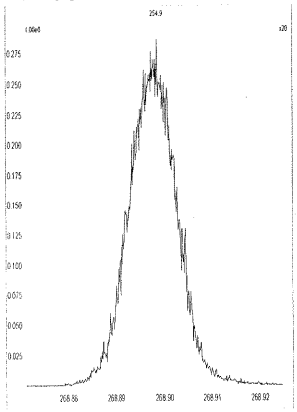
M 242.9856 R 11467



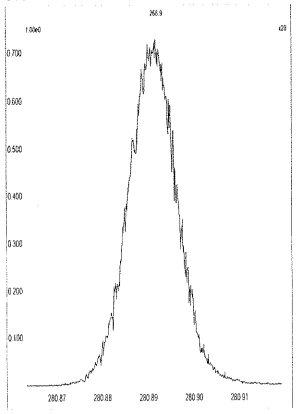
M 254.9856 R 11415



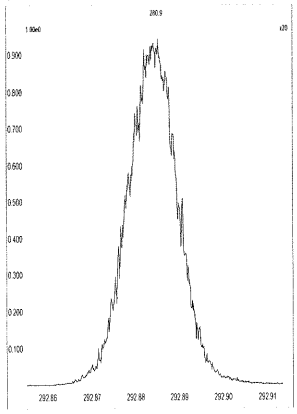
M 268.9824 R 11417



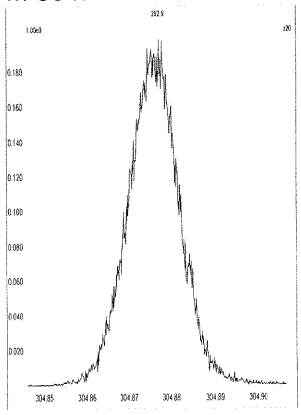
M 280.9824 R 10774



M 292.9824 R 11207



M 304.9824 R 11682

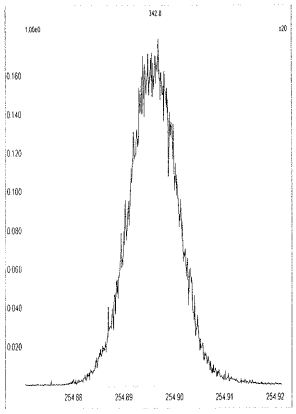


Experiment Calibration Report **MassLynx 4.1**

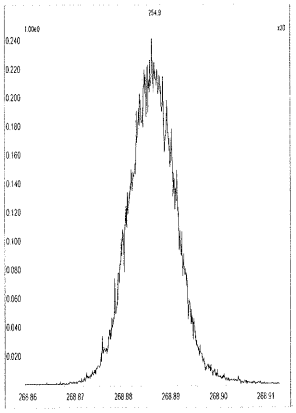
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, November 28, 2011 05:22:18 Central Standard Time

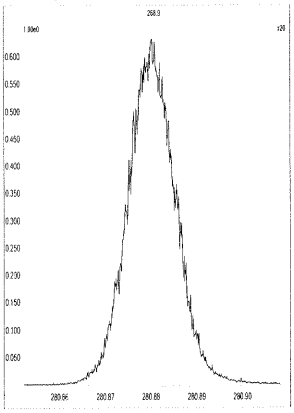
M 254.9856 R 11160



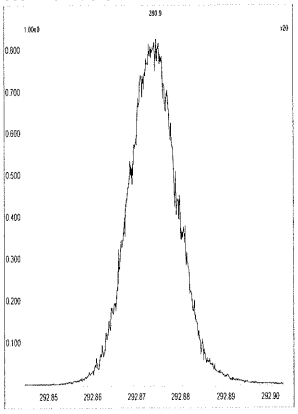
M 268.9824 R 11905



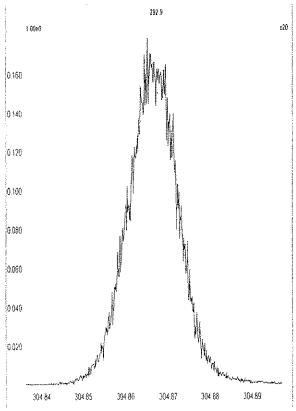
M 280.9824 R 11525



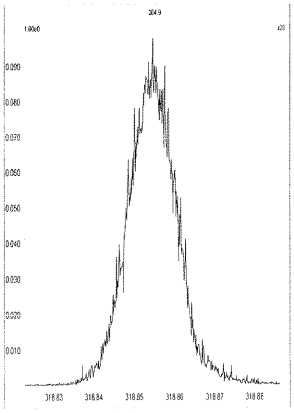
M 292.9824 R 11308



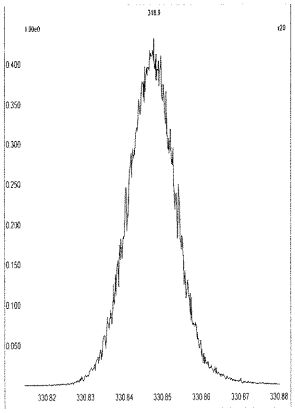
M 304.9824 R 10504



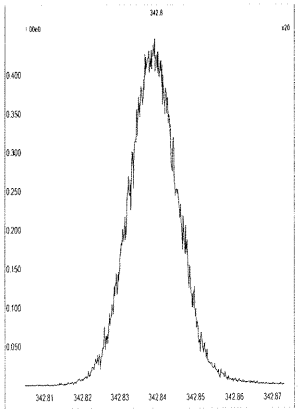
M 318.9792 R 11011



M 330.9792 R 10966



M 342.9792 R 11519

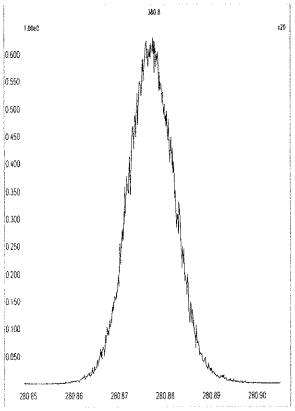


Experiment Calibration Report **MassLynx 4.1**

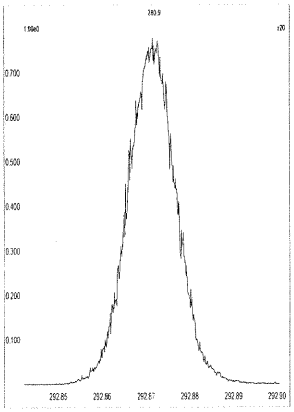
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, November 28, 2011 05:22:46 Central Standard Time

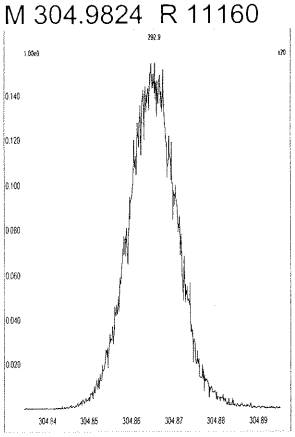
M 280.9824 R 11626



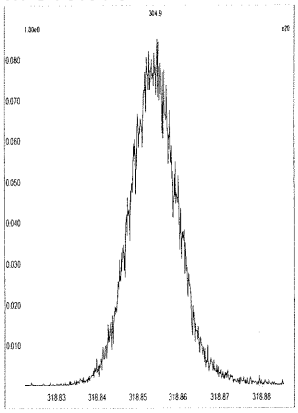
M 292.9824 R 11417



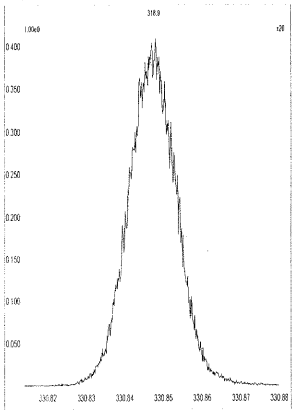
M 304.9824 R 11160



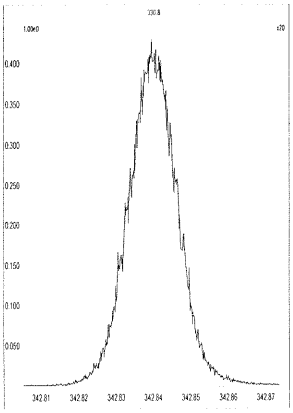
M 318.9792 R 11164



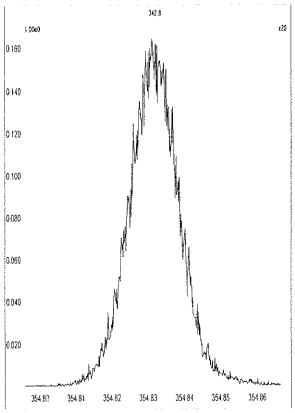
M 330.9792 R 11206



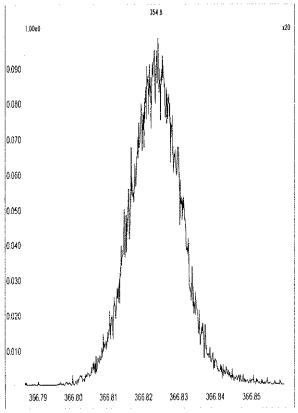
M 342.9792 R 10964



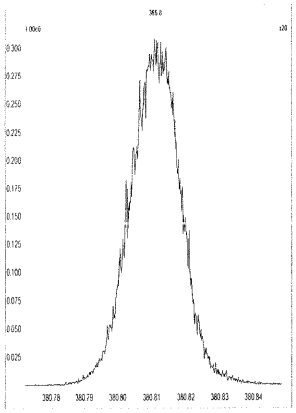
M 354.9792 R 10545



M 366.9792 R 10822



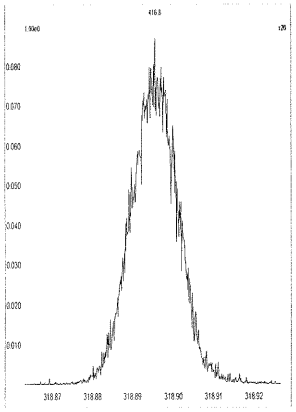
M 380.9760 R 11109



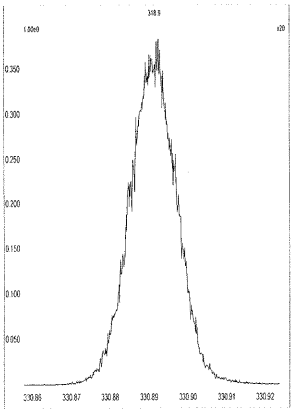
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, November 28, 2011 05:23:14 Central Standard Time

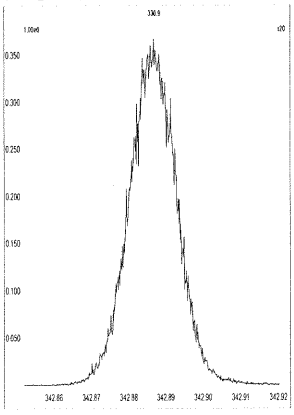
M 318.9792 R 12082



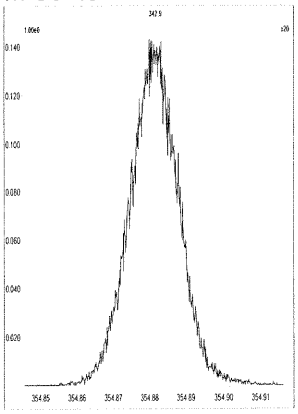
M 330.9792 R 11739



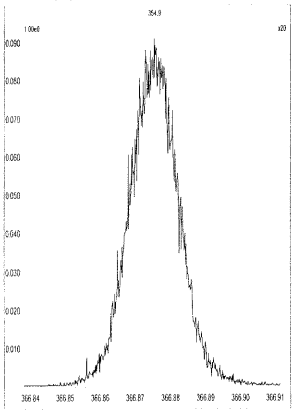
M 342.9792 R 11312



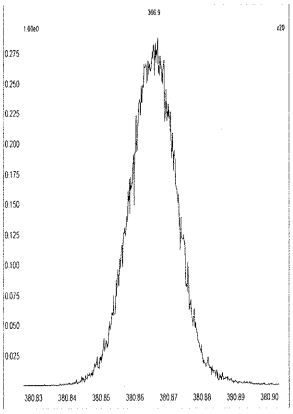
M 354.9792 R 11735



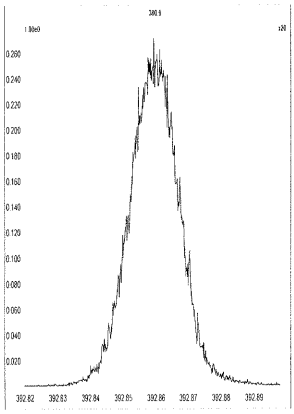
M 366.9792 R 11570



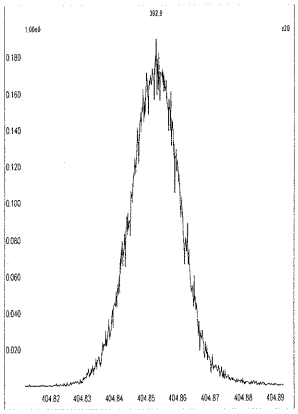
M 380.9760 R 10917



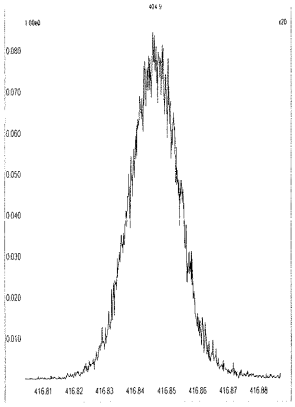
M 392.9760 R 11310



M 404.9760 R 11058



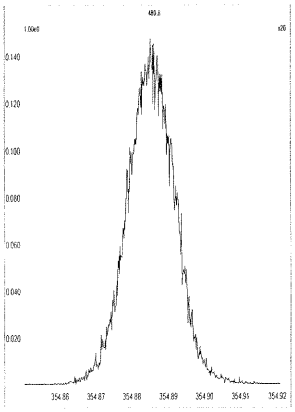
M 416.9760 R 10592



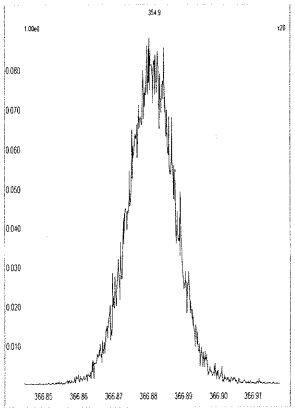
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Monday, November 28, 2011 05:23:42 Central Standard Time

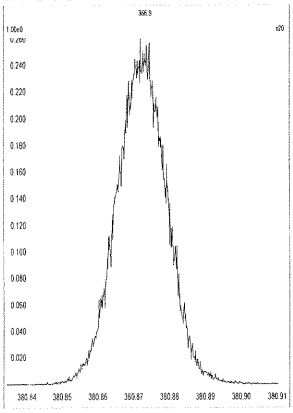
M 354.9792 R 11852



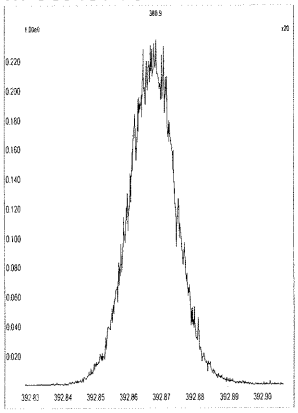
M 366.9792 R 11263



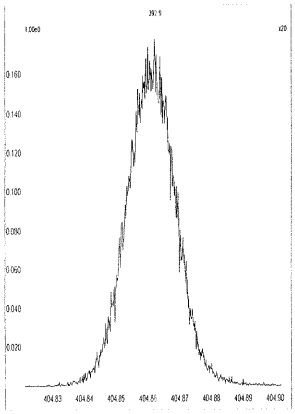
M 380.9760 R 11312



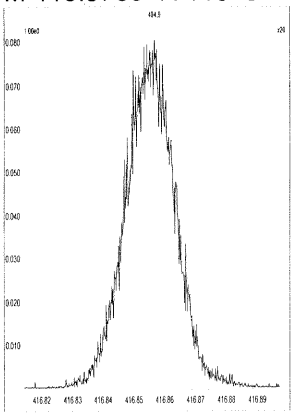
M 392.9760 R 11366



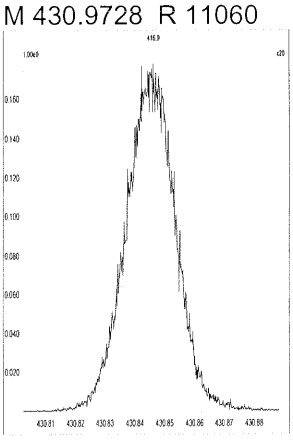
M 404.9760 R 11262



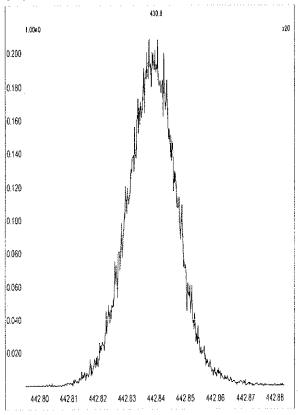
M 416.9760 R 11573



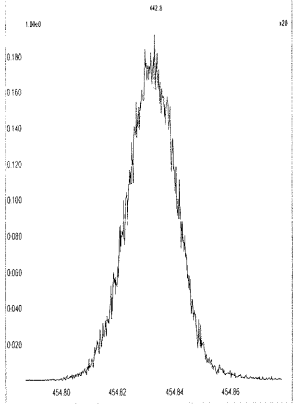
M 430.9728 R 11060



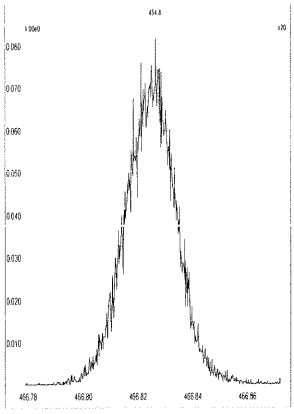
M 442.9728 R 10913



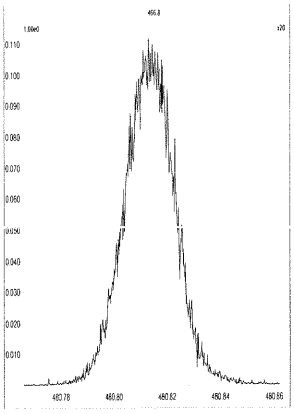
M 454.9728 R 10868



M 466.9728 R 10681



M 480.9696 R 10822



Experiment Calibration Report **MassLynx 4.1**

File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

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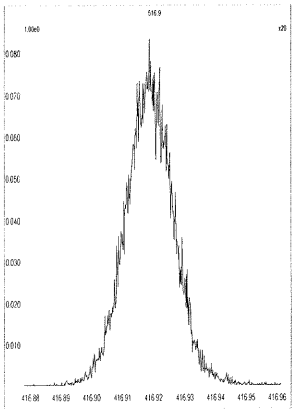
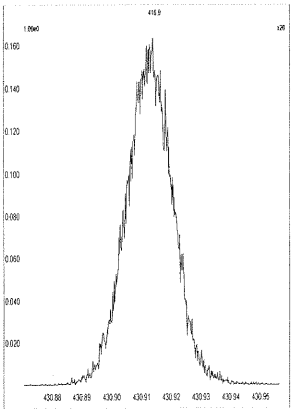
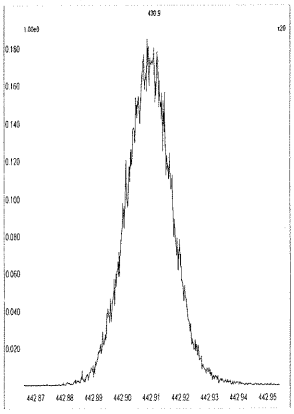
M 416.9760 R 12256



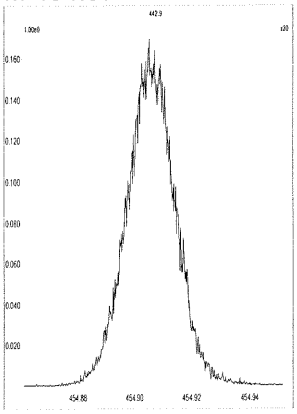
M 430.9728 R 11848



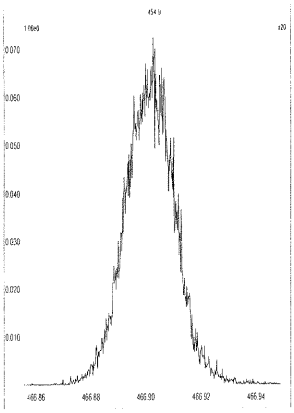
M 442.9728 R 11572



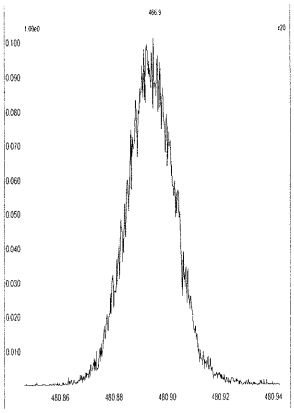
M 454.9728 R 11416



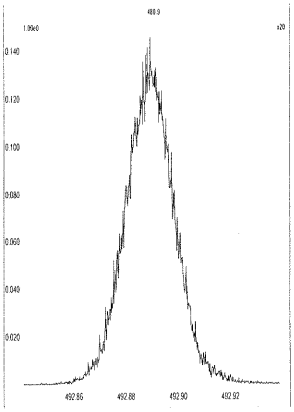
M 466.9728 R 10964



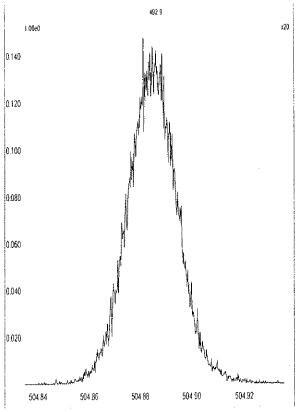
M 480.9696 R 10640



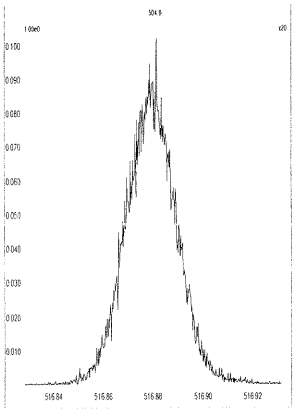
M 492.9696 R 10776



M 504.9696 R 11160



M 516.9697 R 11011

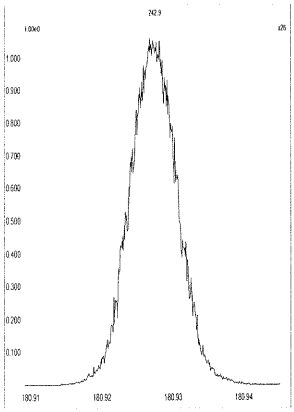


Experiment Calibration Report **MassLynx 4.1**

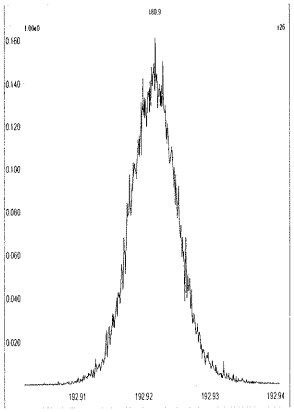
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 28, 2011 08:32:33 Central Standard Time

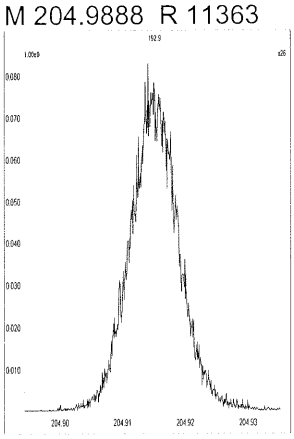
M 180.9888 R 11684



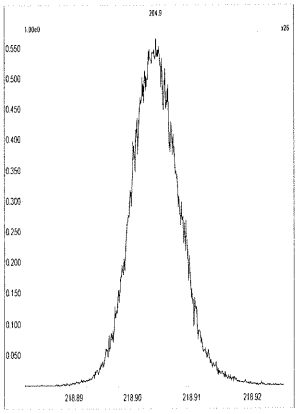
M 192.9888 R 11362



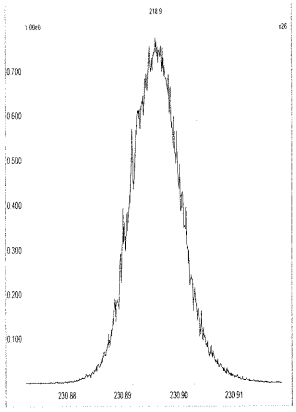
M 204.9888 R 11363



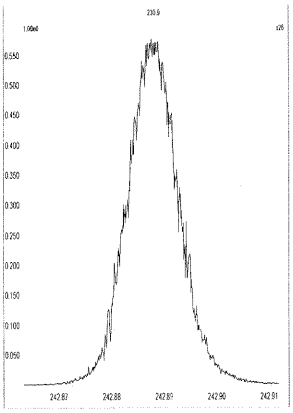
M 218.9856 R 11211



M 230.9856 R 10867



M 242.9856 R 10205

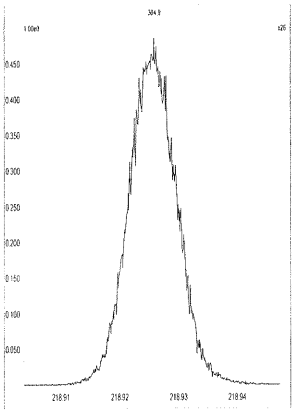


Experiment Calibration Report **MassLynx 4.1**

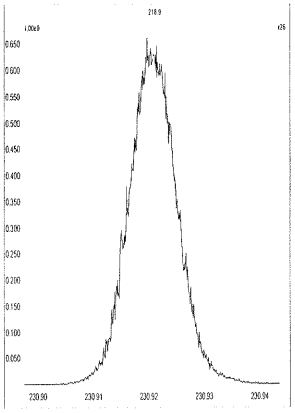
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 28, 2011 08:33:02 Central Standard Time

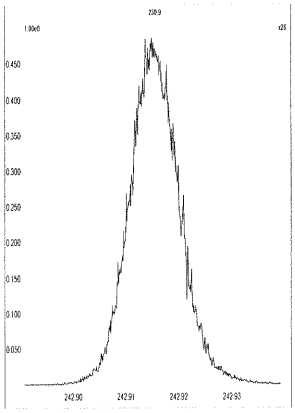
M 218.9856 R 11739



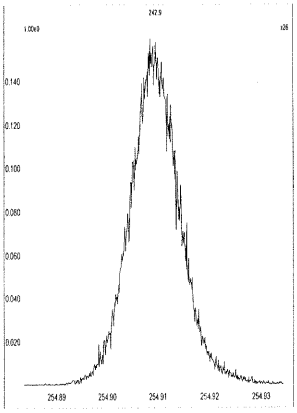
M 230.9856 R 11523



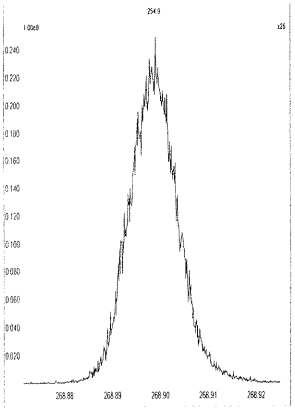
M 242.9856 R 10964



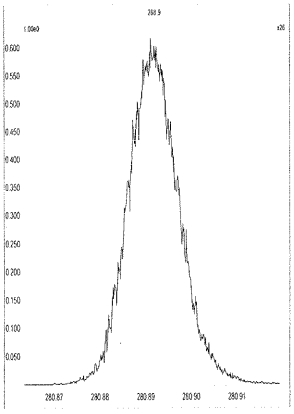
M 254.9856 R 10776



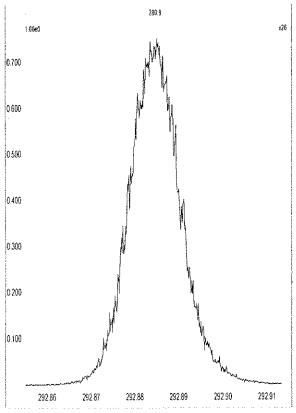
M 268.9824 R 11063



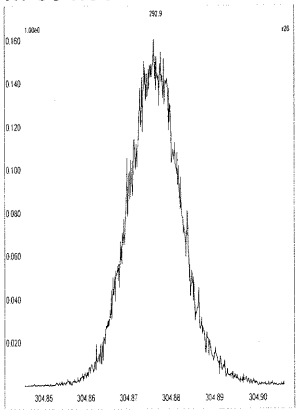
M 280.9824 R 10682



M 292.9824 R 10290



M 304.9824 R 10373

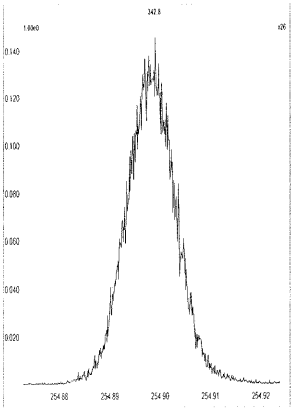


Experiment Calibration Report **MassLynx 4.1**

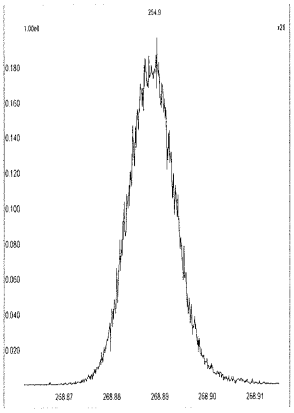
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, November 28, 2011 08:33:31 Central Standard Time

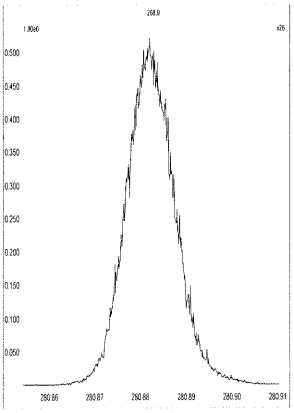
M 254.9856 R 11111



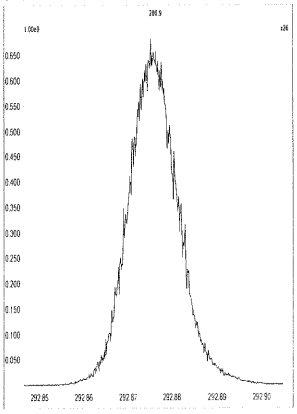
M 268.9824 R 11738



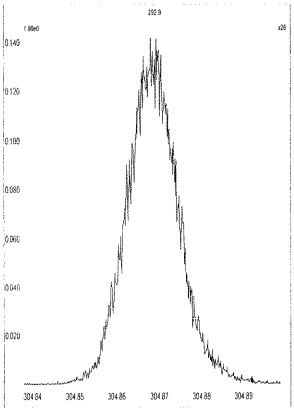
M 280.9824 R 11011



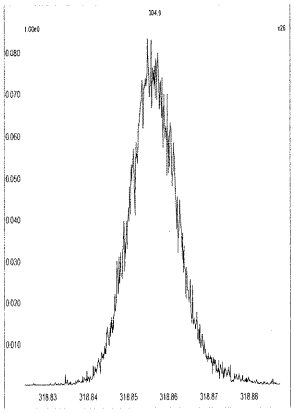
M 292.9824 R 11058



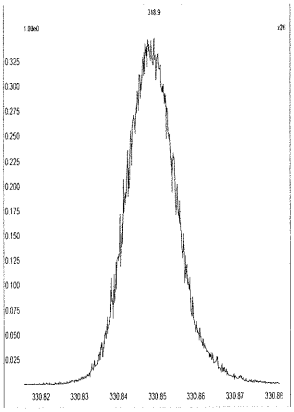
M 304.9824 R 9960



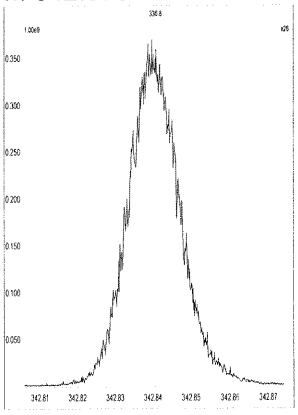
M 318.9792 R 11413



M 330.9792 R 10289



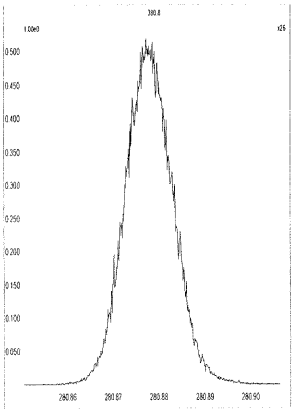
M 342.9792 R 10166



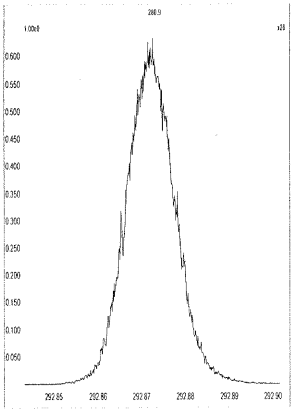
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, November 28, 2011 08:34:16 Central Standard Time

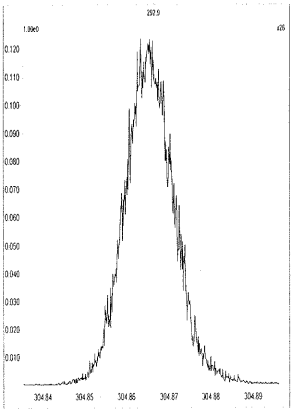
M 280.9824 R 11519



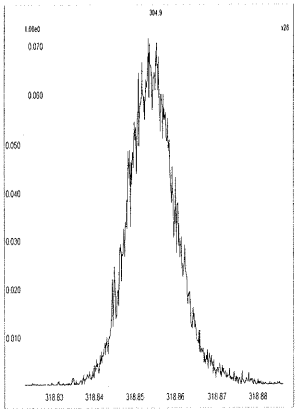
M 292.9824 R 11365



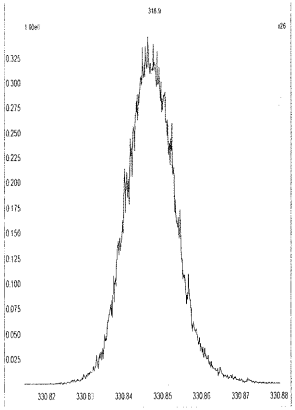
M 304.9824 R 11160



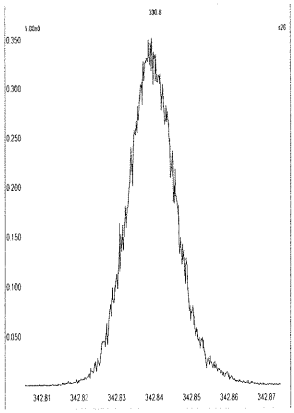
M 318.9792 R 11413



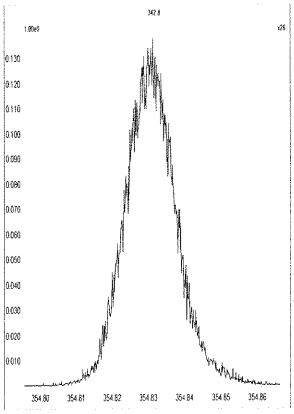
M 330.9792 R 10918



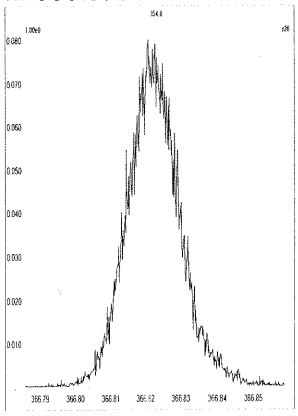
M 342.9792 R 10597



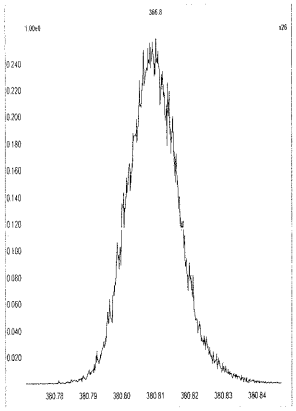
M 354.9792 R 10731



M 366.9792 R 10040



M 380.9760 R 10547

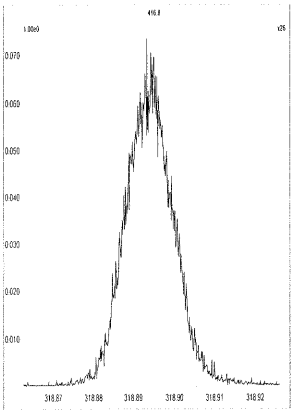


Experiment Calibration Report **MassLynx 4.1**

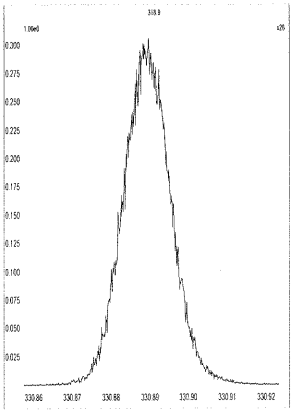
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, November 28, 2011 08:34:40 Central Standard Time

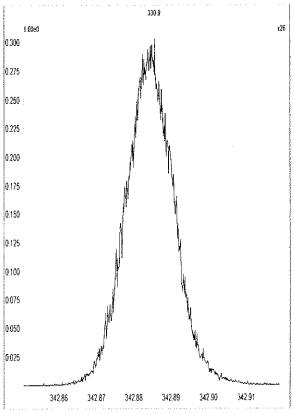
M 318.9792 R 11681



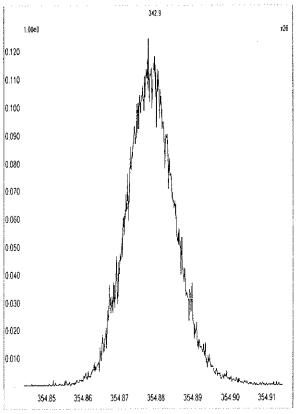
M 330.9792 R 11361



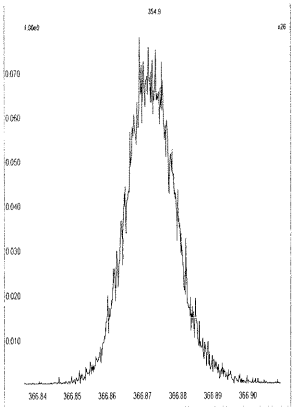
M 342.9792 R 11111



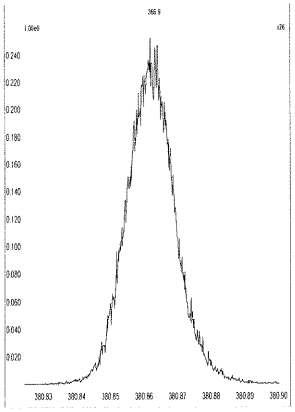
M 354.9792 R 11414



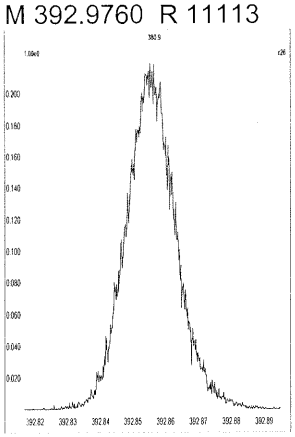
M 366.9792 R 10819



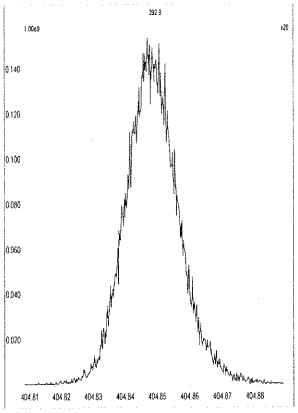
M 380.9760 R 11013



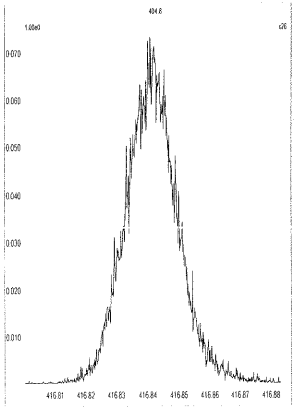
M 392.9760 R 11113



M 404.9760 R 10122



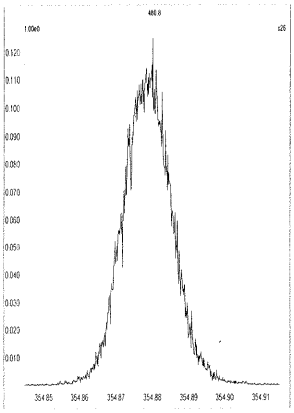
M 416.9760 R 10547



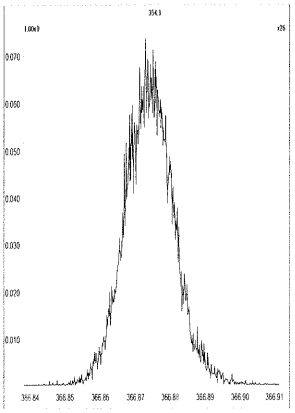
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Monday, November 28, 2011 08:35:11 Central Standard Time

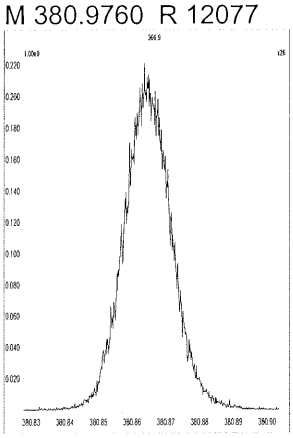
M 354.9792 R 10825



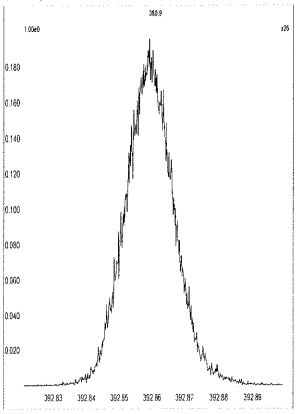
M 366.9792 R 10871



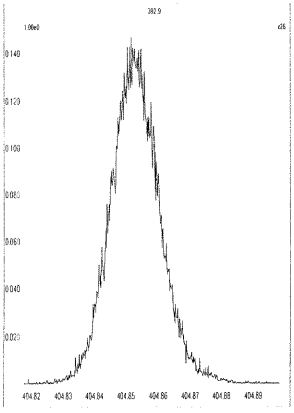
M 380.9760 R 12077



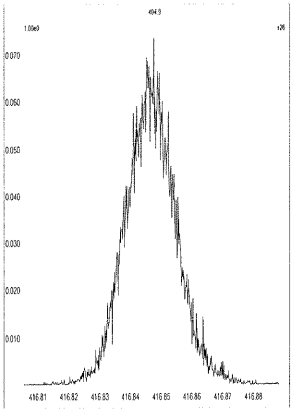
M 392.9760 R 11466



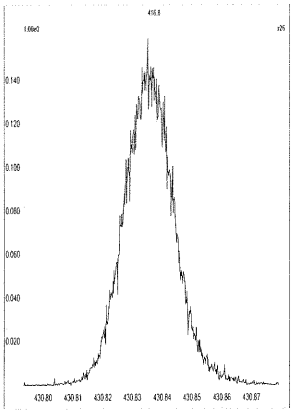
M 404.9760 R 11207



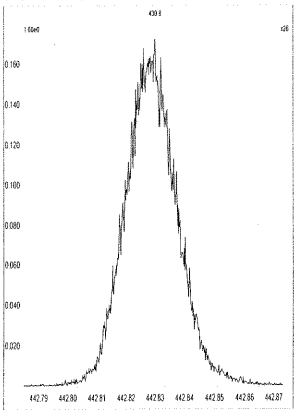
M 416.9760 R 10916



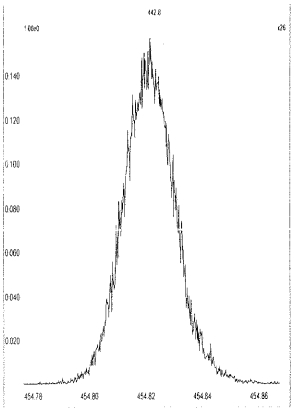
M 430.9728 R 10685



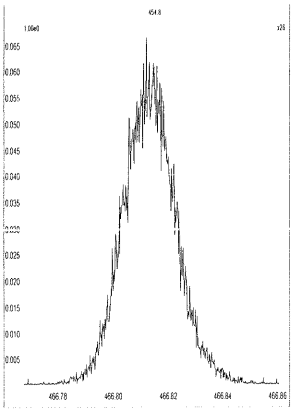
M 442.9728 R 11360



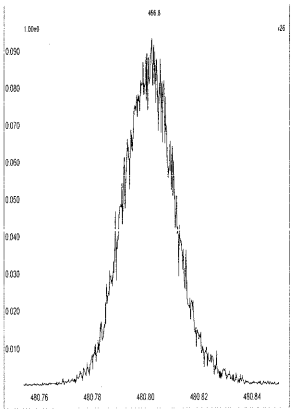
M 454.9728 R 10120



M 466.9728 R 10289



M 480.9696 R 10330

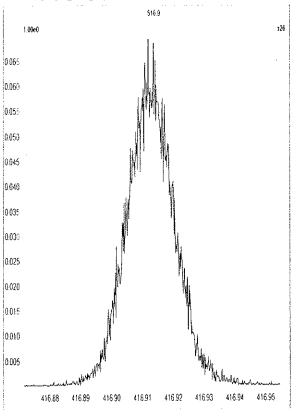


Experiment Calibration Report **MassLynx 4.1**

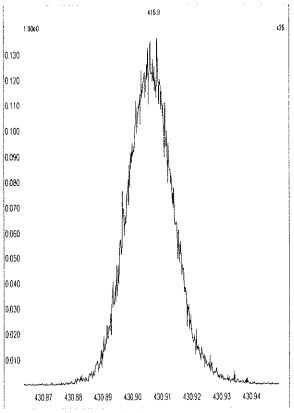
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

Printed: Monday, November 28, 2011 08:35:36 Central Standard Time

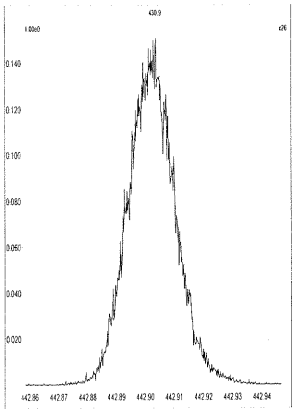
M 416.9760 R 11789



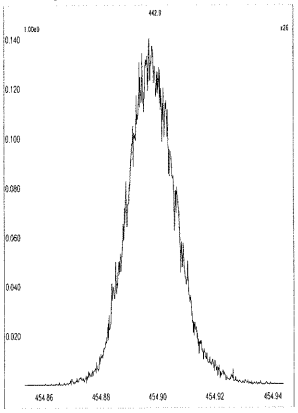
M 430.9728 R 11467



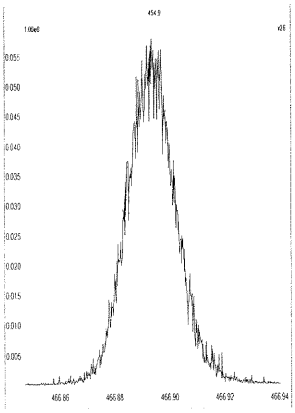
M 442.9728 R 11572



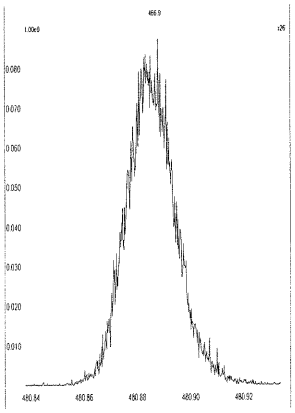
M 454.9728 R 11211



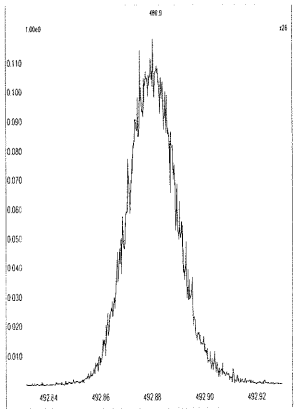
M 466.9728 R 10964



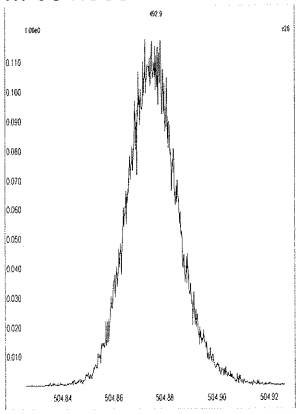
M 480.9696 R 11417



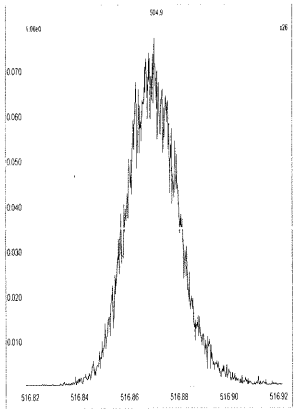
M 492.9696 R 11211



M 504.9696 R 10415



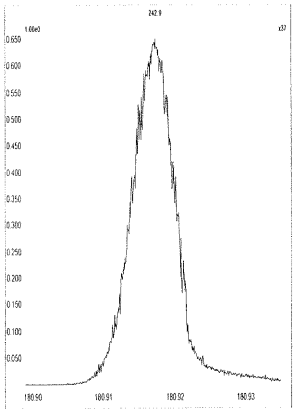
M 516.9697 R 10458



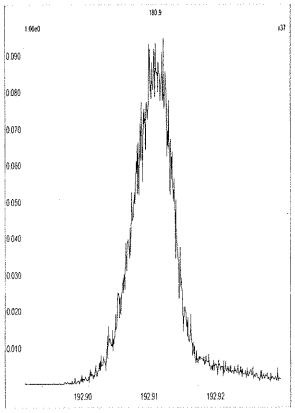
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 28, 2011 18:23:55 Central Standard Time

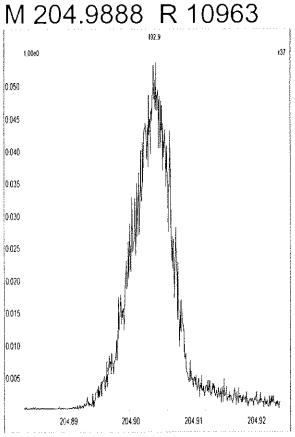
M 180.9888 R 12316



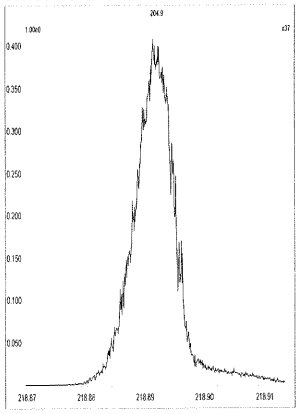
M 192.9888 R 11413



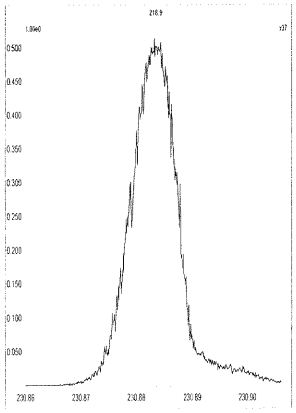
M 204.9888 R 10963



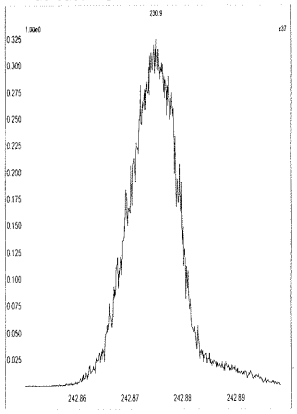
M 218.9856 R 12626



M 230.9856 R 10962



M 242.9856 R 10001

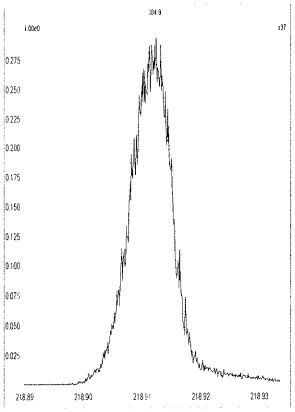


Experiment Calibration Report **MassLynx 4.1**

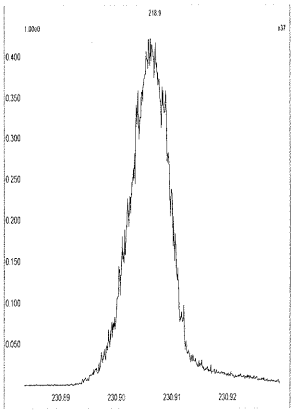
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 28, 2011 18:24:31 Central Standard Time

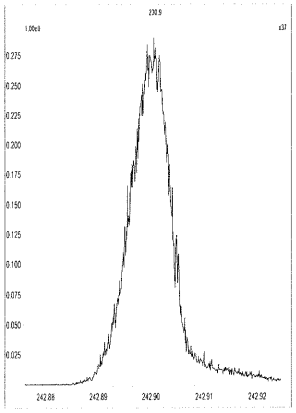
M 218.9856 R 12439



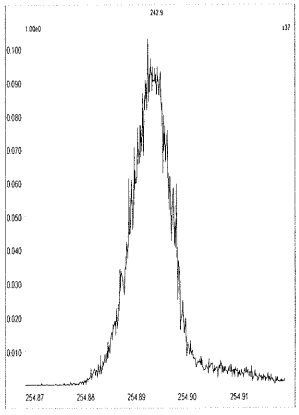
M 230.9856 R 12253



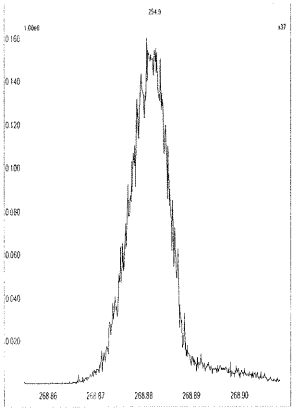
M 242.9856 R 11470



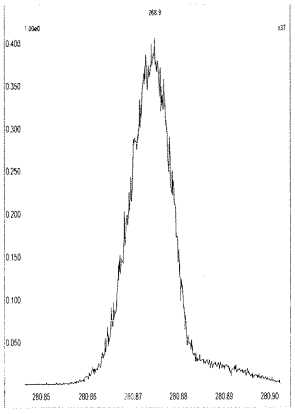
M 254.9856 R 12194



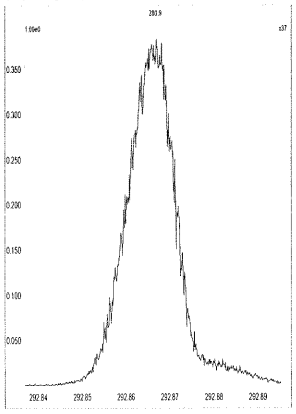
M 268.9824 R 13737



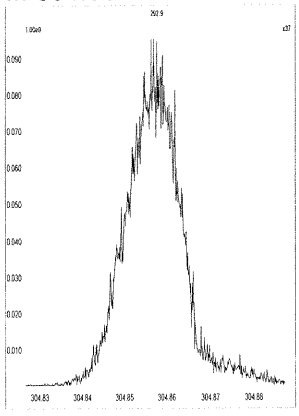
M 280.9824 R 10547



M 292.9824 R 10418



M 304.9824 R 10459

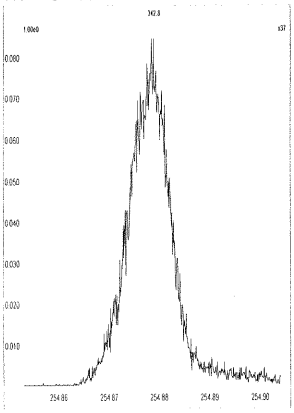


Experiment Calibration Report **MassLynx 4.1**

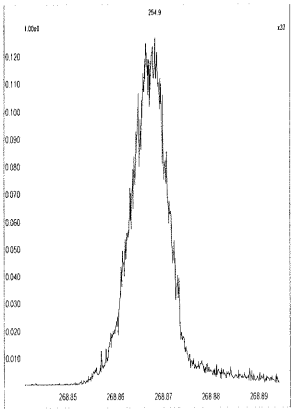
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, November 28, 2011 18:25:13 Central Standard Time

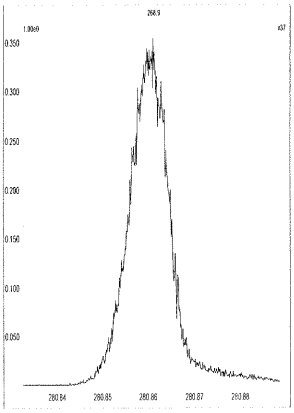
M 254.9856 R 11362



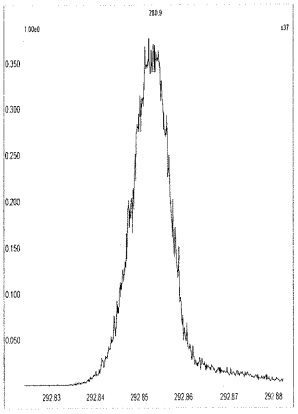
M 268.9824 R 12376



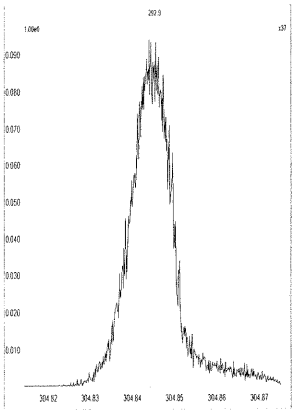
M 280.9824 R 12016



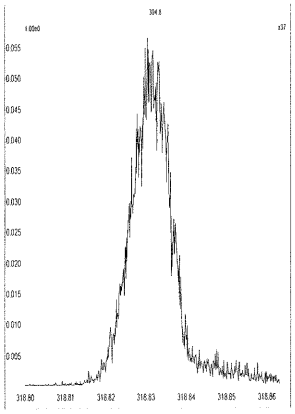
M 292.9824 R 12954



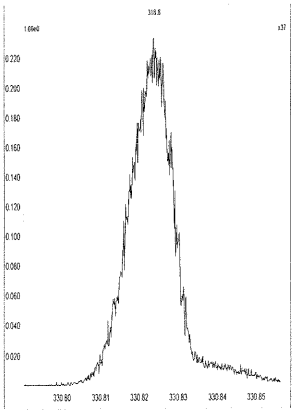
M 304.9824 R 11903



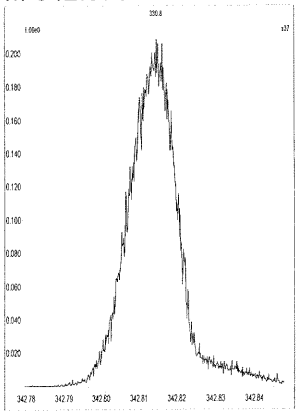
M 318.9792 R 13963



M 330.9792 R 10870



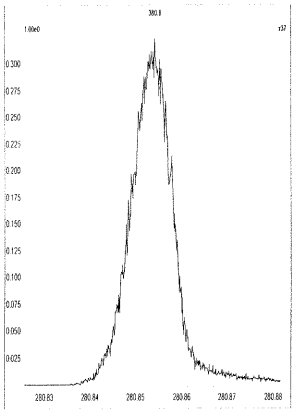
M 342.9792 R 10119



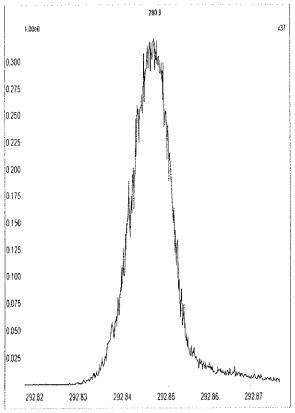
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, November 28, 2011 18:26:31 Central Standard Time

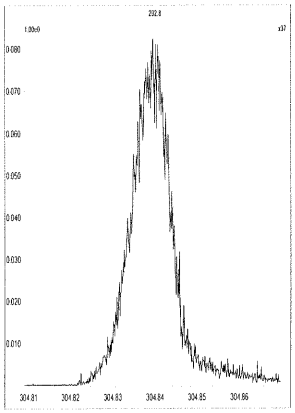
M 280.9824 R 13366



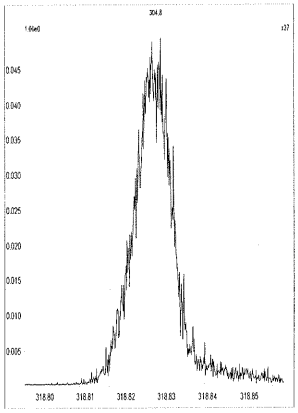
M 292.9824 R 13090



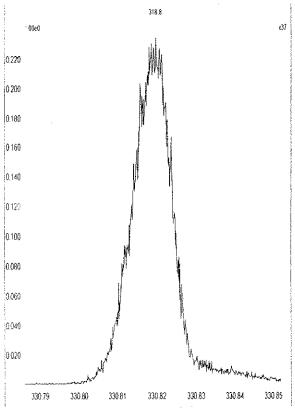
M 304.9824 R 12193



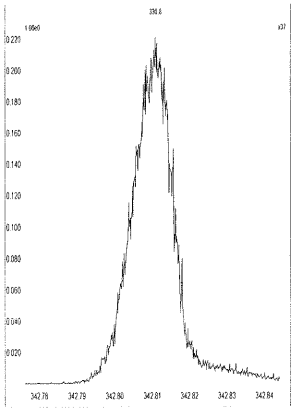
M 318.9792 R 13516



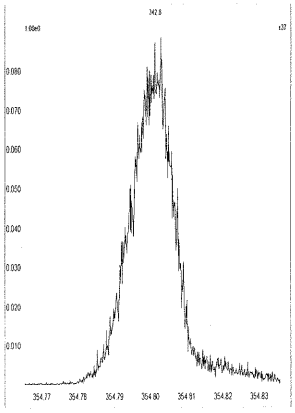
M 330.9792 R 13513



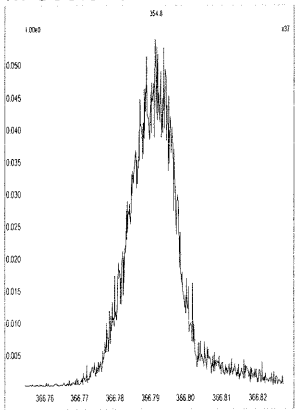
M 342.9792 R 12139



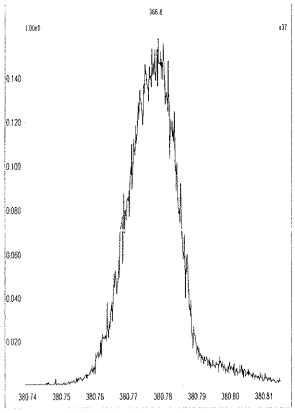
M 354.9792 R 11629



M 366.9792 R 11362



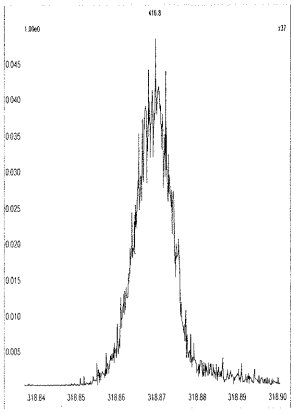
M 380.9760 R 10462



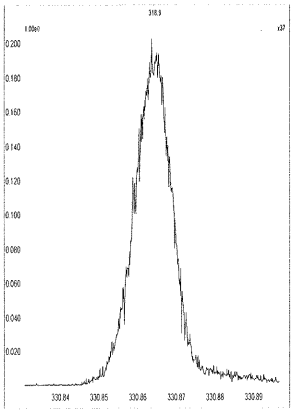
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, November 28, 2011 18:27:18 Central Standard Time

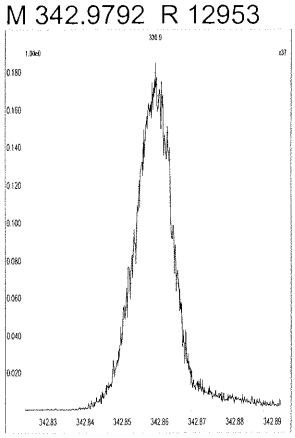
M 318.9792 R 13666



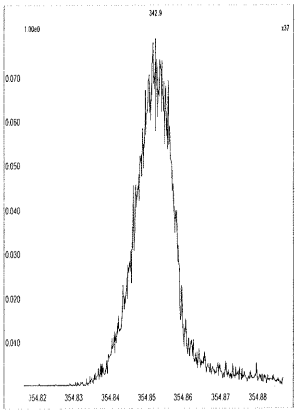
M 330.9792 R 13657



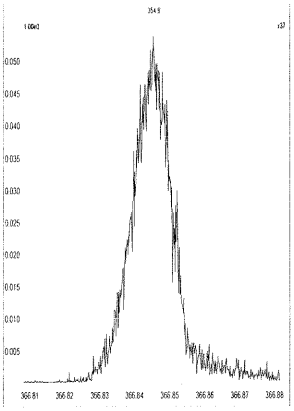
M 342.9792 R 12953



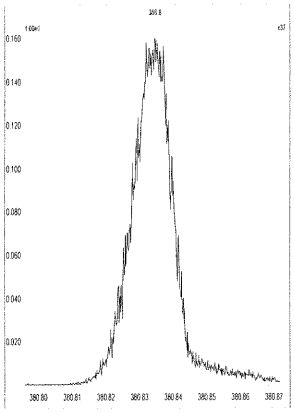
M 354.9792 R 13230



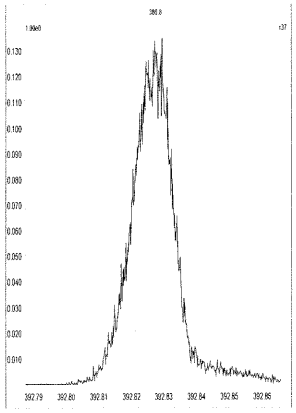
M 366.9792 R 13514



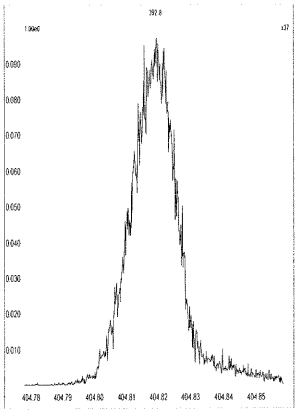
M 380.9760 R 12254



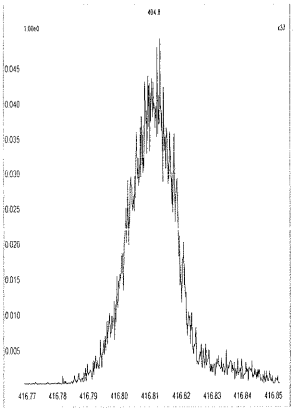
M 392.9760 R 11959



M 404.9760 R 10965



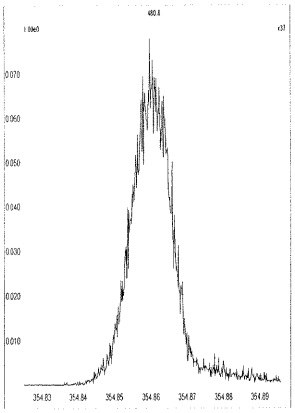
M 416.9760 R 11109



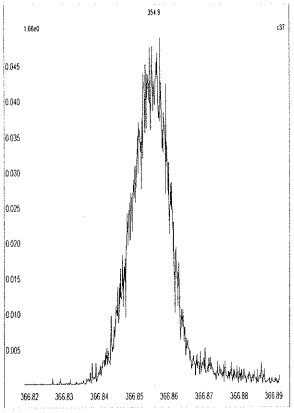
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Monday, November 28, 2011 18:28:38 Central Standard Time

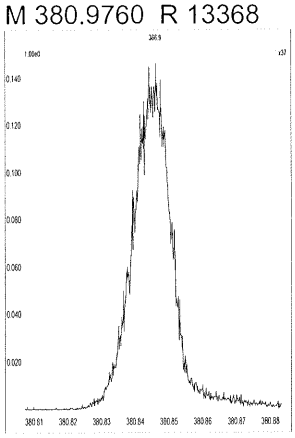
M 354.9792 R 13664



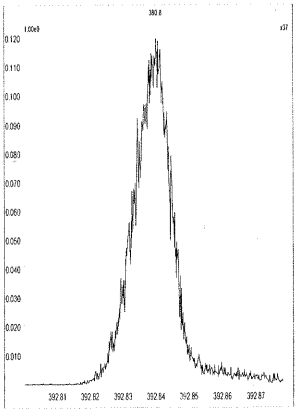
M 366.9792 R 13662



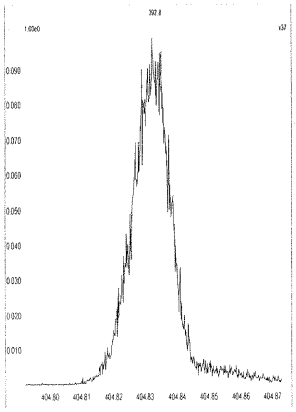
M 380.9760 R 13368



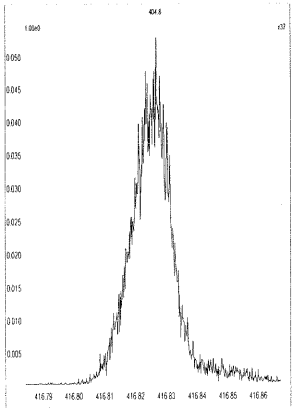
M 392.9760 R 13155



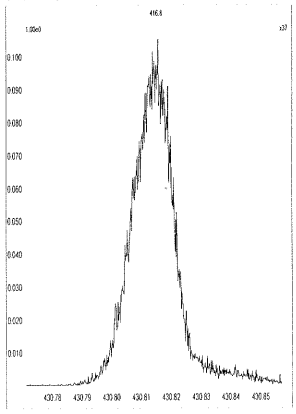
M 404.9760 R 13514



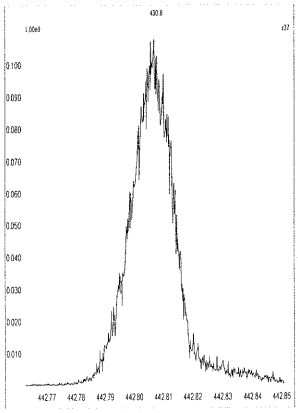
M 416.9760 R 13517



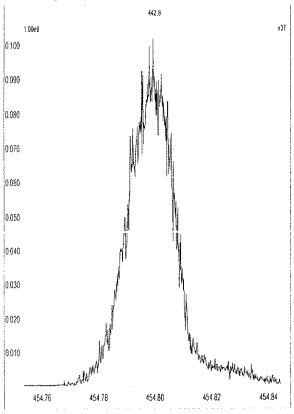
M 430.9728 R 13224



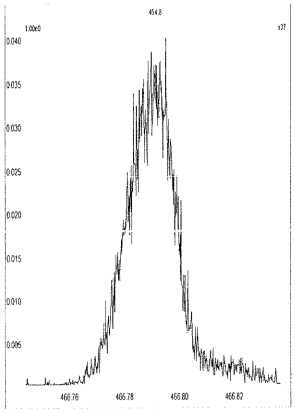
M 442.9728 R 12626



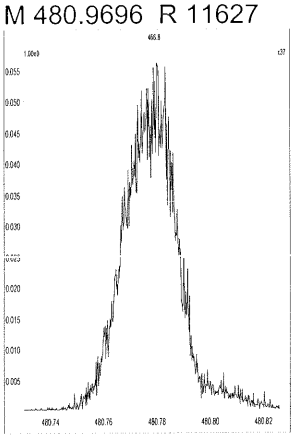
M 454.9728 R 10506



M 466.9728 R 11211



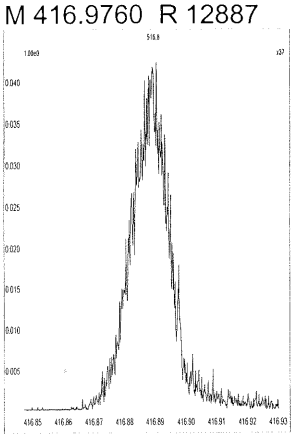
M 480.9696 R 11627



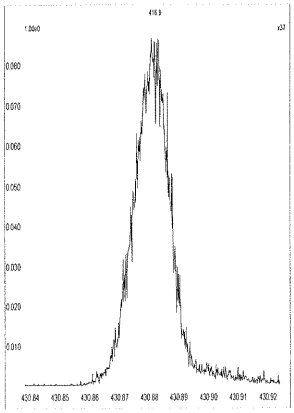
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

Printed: Monday, November 28, 2011 18:29:35 Central Standard Time

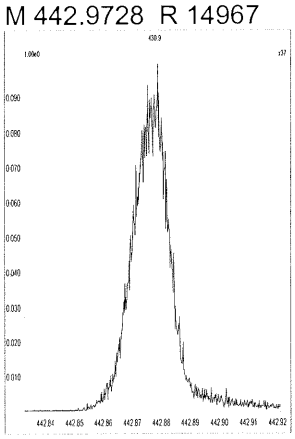
M 416.9760 R 12887



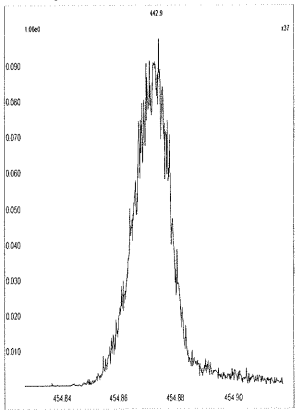
M 430.9728 R 14203



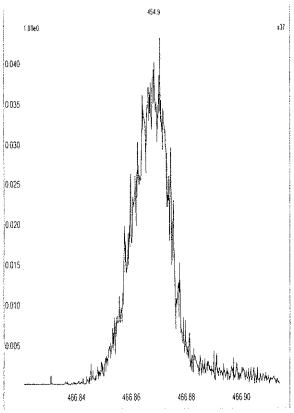
M 442.9728 R 14967



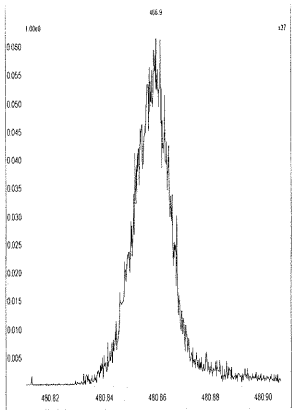
M 454.9728 R 13369



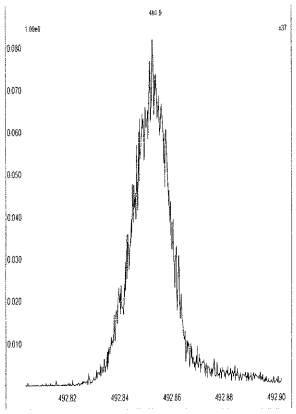
M 466.9728 R 14366



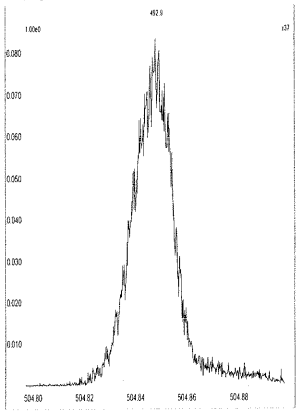
M 480.9696 R 12078



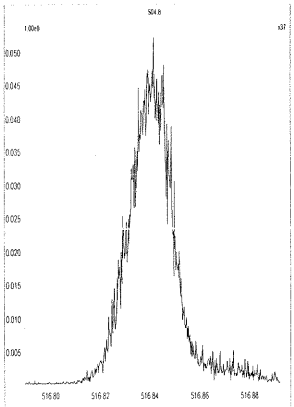
M 492.9696 R 12562



M 504.9696 R 12818



M 516.9697 R 12817



DCCS2091

METHOD 1668
DILUTED COMBINED 209 CONGENER SOLUTION (DCCS-209)

CLIENT ID:

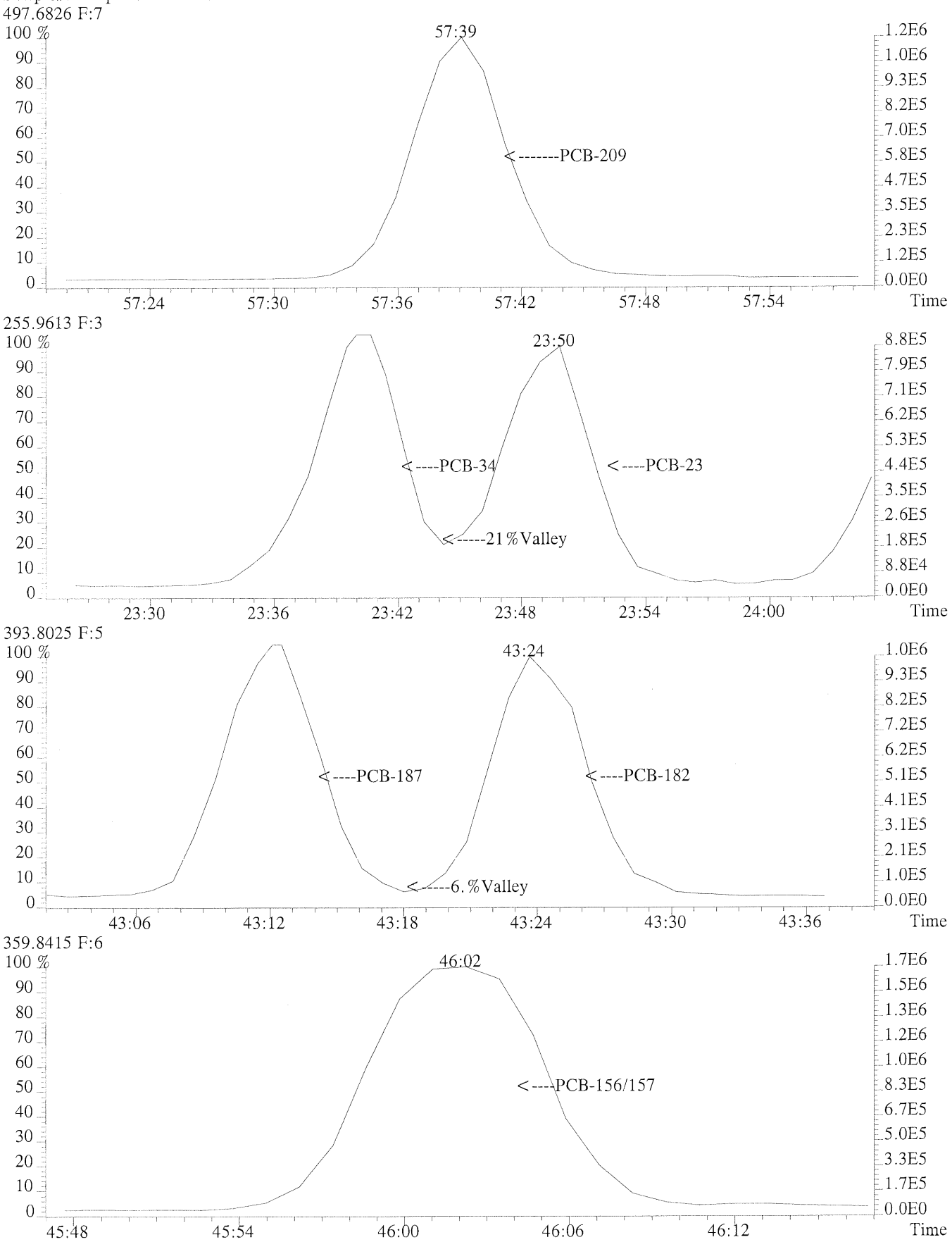
DCCS-209

Lab Name: COLUMBIA ANALYTICAL SERVICES
Lab Code: CAS Case No.: _____ SDG No.:
GC Column: SPB-Octyl ID: 0.25 (mm) Lab File ID: U142187
Date Analyzed: 28-NOV-2011
Time Analyzed: 05:24:42

Retention Time for PCB 209:	(>55 min)	57:39
% Valley between PCB 34 and PCB 23:	(<40%)	21
% Valley between PCB 187 and PCB 182:	(<40%)	6.
Seconds of coelution between PCB 156 and PCB 157:	(<2 sec)	0

Reference: Section 6.9.1.1 Method 1668

File:U142187 #1-310 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
DCCS-209

Run #8 Filename U142187 Samp: 1 Inj: 1 Acquired: 28-NOV-11 05:24:42
Processed: 30-NOV-11 09:34:28 Sample ID: B4-25-1

Ln#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	NotFnd	*	*	*	n	n	1.0712
2	1	PCB-2	15:26	7.121e+03	2.219e+03	3.21	y	n	1.1891
3	1	PCB-3	NotFnd	*	*	*	n	n	1.0363
4	1	PCB-4	NotFnd	*	*	*	n	n	1.1136
5	1	PCB-10	16:03	6.984e+03	4.407e+03	1.58	y	n	1.8331
6	2	PCB-9	17:55	4.927e+03	3.124e+03	1.58	y	n	1.2956
7	2	PCB-7	18:04	4.877e+03	3.094e+03	1.58	y	n	1.2826
8	2	PCB-6	18:20	5.226e+03	3.118e+03	1.68	y	n	1.3427
9	2	PCB-5	18:38	4.385e+03	2.855e+03	1.54	y	n	1.1651
10	2	PCB-8	18:46	5.624e+03	3.756e+03	1.50	y	n	1.5095
11	2	PCB-14	20:26	5.131e+03	3.463e+03	1.48	y	n	1.3828
12	2	PCB-11	21:17	4.955e+03	3.017e+03	1.64	y	n	1.2828
13	2	PCB-12/13	21:37	9.239e+03	5.766e+03	1.60	y	n	1.2072
14	2	PCB-15	NotFnd	*	*	*	n	n	0.9770
15	2	PCB-19	NotFnd	*	*	*	n	n	1.0009
16	2	PCB-18/30	20:56	7.332e+03	7.180e+03	1.02	y	n	1.2818
17	2	PCB-17	21:24	2.940e+03	2.939e+03	1.00	y	n	1.0386
18	2	PCB-27	21:37	4.561e+03	4.548e+03	1.00	y	n	1.6091
19	2	PCB-24	21:44	3.926e+03	4.049e+03	0.97	y	n	1.4089
20	2	PCB-16	21:52	2.322e+03	2.288e+03	1.01	y	n	0.8145
21	2	PCB-32	22:23	4.494e+03	4.515e+03	1.00	y	n	1.5915
22	3	PCB-34	23:40	4.644e+03	4.486e+03	1.04	y	n	1.6130
23	3	PCB-23	23:49	4.501e+03	4.336e+03	1.04	y	n	1.5611
24	3	PCB-26/29	24:09	9.437e+03	9.220e+03	1.02	y	n	1.6480
25	3	PCB-25	24:23	5.102e+03	4.957e+03	1.03	y	n	1.7771
26	3	PCB-31	24:41	4.934e+03	4.806e+03	1.03	y	n	1.7209
27	3	PCB-20/28	25:00	9.060e+03	9.268e+03	0.98	y	n	1.6190
28	3	PCB-21/33	25:11	9.717e+03	8.989e+03	1.08	y	n	1.6523
29	3	PCB-22	25:38	4.281e+03	4.040e+03	1.06	y	n	1.4700
30	3	PCB-36	27:13	4.787e+03	4.665e+03	1.03	y	n	1.6699
31	3	PCB-39	27:34	4.421e+03	4.238e+03	1.04	y	n	1.5297
32	3	PCB-38	28:10	4.444e+03	4.271e+03	1.04	y	n	1.5396
33	3	PCB-35	28:38	4.058e+03	3.569e+03	1.14	y	n	1.3475
34	3	PCB-37	NotFnd	*	*	*	n	n	1.0888
35	2	PCB-54	NotFnd	*	*	*	n	n	1.0020
36	3	PCB-50/53	24:25	1.135e+04	1.514e+04	0.75	y	n	1.1377
37	3	PCB-45/51	25:05	1.094e+04	1.435e+04	0.76	y	y	1.0866
38	3	PCB-46	25:24	4.665e+03	6.098e+03	0.77	y	n	0.9248
39	3	PCB-52	26:50	6.080e+03	8.034e+03	0.76	y	y	1.2126
40	3	PCB-43/73	26:59	1.190e+04	1.575e+04	0.76	y	y	1.1880
41	3	PCB-49/69	27:17	1.347e+04	1.772e+04	0.76	y	n	1.3397
42	3	PCB-48	27:37	5.648e+03	7.586e+03	0.74	y	n	1.1370
43	3	PCB-44/47/65	27:51	1.853e+04	2.458e+04	0.75	y	n	1.2345
44	3	PCB-59/62/75	28:10	2.243e+04	2.945e+04	0.76	y	n	1.4860
45	3	PCB-42	28:22	5.360e+03	6.979e+03	0.77	y	n	1.0601
46	3	PCB-40/41/71	28:52	1.678e+04	2.216e+04	0.76	y	y	1.1152
47	3	PCB-64	29:05	7.686e+03	1.021e+04	0.75	y	y	1.5375
48	3	PCB-72	29:56	8.059e+03	1.031e+04	0.78	y	n	1.5780
49	3	PCB-68	30:13	8.001e+03	9.817e+03	0.82	y	n	1.5308
50	3	PCB-57	30:38	7.647e+03	9.319e+03	0.82	y	n	1.4577

51	3	PCB-58	30:53	7.303e+03	8.923e+03	0.82	y	n	1.3941
52	3	PCB-67	31:04	7.792e+03	9.369e+03	0.83	y	n	1.4745
53	3	PCB-63	31:20	8.134e+03	9.396e+03	0.87	y	n	1.5062
54	3	PCB-61/70/74/76	31:39	2.893e+04	3.743e+04	0.77	y	y	1.4255
55	3	PCB-66	31:59	7.783e+03	9.482e+03	0.82	y	n	1.4834
56	3	PCB-55	32:09	6.776e+03	8.784e+03	0.77	y	n	1.3369
57	4	PCB-56	32:40	6.275e+03	8.008e+03	0.78	y	n	1.2271
58	4	PCB-60	32:54	6.565e+03	8.429e+03	0.78	y	n	1.2883
59	4	PCB-80	33:18	7.317e+03	9.233e+03	0.79	y	n	1.4220
60	4	PCB-79	34:50	7.242e+03	9.344e+03	0.78	y	n	1.4250
61	4	PCB-78	35:24	6.646e+03	8.463e+03	0.79	y	n	1.2982
62	4	PCB-81	NotFnd	*	*	*	n	n	1.0336
63	4	PCB-77	NotFnd	*	*	*	n	n	0.9953
64	3	PCB-104	NotFnd	*	*	*	n	n	1.0300
65	3	PCB-96	28:09	1.014e+04	6.479e+03	1.57	y	n	1.4449
66	3	PCB-103	30:06	8.711e+03	5.492e+03	1.59	y	n	1.2347
67	3	PCB-94	30:20	6.796e+03	4.372e+03	1.55	y	n	0.9709
68	3	PCB-95	30:47	8.142e+03	5.050e+03	1.61	y	n	1.1468
69	3	PCB-93/100	31:00	1.533e+04	9.882e+03	1.55	y	n	1.0958
70	3	PCB-98/102	31:08	1.487e+04	9.360e+03	1.59	y	n	1.0531
71	3	PCB-88/91	31:33	1.527e+04	9.567e+03	1.60	y	y	1.0798
72	3	PCB-84	31:52	6.497e+03	3.993e+03	1.63	y	n	0.9120
73	3	PCB-89	32:21	7.164e+03	4.511e+03	1.59	y	n	1.0149
74	4	PCB-121	32:46	9.510e+03	6.199e+03	1.53	y	n	1.3656
75	4	PCB-92	33:10	7.265e+03	4.731e+03	1.54	y	n	1.0429
76	4	PCB-90/101/113	33:43	2.381e+04	1.528e+04	1.56	y	n	1.1329
77	4	PCB-83/99	34:19	1.449e+04	9.226e+03	1.57	y	y	1.0308
78	4	PCB-112	34:27	9.532e+03	6.028e+03	1.58	y	y	1.3527
79	4	PCB-86/87/97/109/119/125	34:49	4.923e+04	3.138e+04	1.57	y	y	1.1679
80	4	PCB-117	35:28	8.132e+03	5.444e+03	1.49	y	y	1.1802
81	4	PCB-85/116	35:33	1.695e+04	1.065e+04	1.59	y	y	1.1998
82	4	PCB-110/115	35:47	1.802e+04	1.166e+04	1.55	y	y	1.2903
83	4	PCB-82	36:02	6.207e+03	3.985e+03	1.56	y	n	0.8860
84	4	PCB-111	36:27	8.844e+03	5.787e+03	1.53	y	n	1.2719
85	4	PCB-120	36:54	9.892e+03	6.324e+03	1.56	y	n	1.4096
86	5	PCB-108/124	38:02	1.592e+04	1.026e+04	1.55	y	n	1.1380
87	5	PCB-107	38:18	8.466e+03	5.479e+03	1.55	y	n	1.2123
88	5	PCB-123	NotFnd	*	*	*	n	n	1.0180
89	5	PCB-106	38:32	8.504e+03	5.240e+03	1.62	y	n	1.1948
90	5	PCB-118	NotFnd	*	*	*	n	n	0.9988
91	5	PCB-122	39:04	7.504e+03	4.819e+03	1.56	y	n	1.0713
92	5	PCB-114	NotFnd	*	*	*	n	n	0.9914
93	5	PCB-105	NotFnd	*	*	*	n	n	1.0109
94	5	PCB-127	41:23	7.057e+03	4.619e+03	1.53	y	n	1.0151
95	5	PCB-126	NotFnd	*	*	*	n	n	0.9601
96	4	PCB-155	NotFnd	*	*	*	n	n	0.9884
97	4	PCB-152	33:41	9.116e+03	7.761e+03	1.17	y	n	1.9373
98	4	PCB-150	33:52	8.566e+03	7.302e+03	1.17	y	n	1.8215
99	4	PCB-136	34:13	9.205e+03	7.810e+03	1.18	y	n	1.9531
100	4	PCB-145	34:31	8.394e+03	7.142e+03	1.18	y	n	1.7834
101	4	PCB-148	36:03	6.766e+03	5.722e+03	1.18	y	n	1.4334
102	4	PCB-135/151	36:40	1.295e+04	1.104e+04	1.17	y	n	1.3769
103	4	PCB-154	36:54	7.163e+03	6.301e+03	1.14	y	n	1.5455
104	4	PCB-144	37:13	6.525e+03	5.775e+03	1.13	y	n	1.4119
105	5	PCB-147/149	37:34	1.233e+04	1.024e+04	1.20	y	n	1.2952
106	5	PCB-134	37:47	5.389e+03	3.884e+03	1.39	y	n	1.0645
107	5	PCB-143	37:52	5.672e+03	5.222e+03	1.09	y	n	1.2508

108	5	PCB-139/140	38:10	1.238e+04	9.876e+03	1.25	y	n	1.2772
109	5	PCB-131	38:22	5.490e+03	4.392e+03	1.25	y	n	1.1343
110	5	PCB-142	38:32	5.645e+03	4.553e+03	1.24	y	n	1.1706
111	5	PCB-132	38:49	5.209e+03	4.325e+03	1.20	y	n	1.0944
112	5	PCB-133	39:20	5.678e+03	4.694e+03	1.21	y	n	1.1905
113	5	PCB-165	39:44	4.889e+03	3.924e+03	1.25	y	n	1.0116
114	5	PCB-146	40:00	5.005e+03	4.092e+03	1.22	y	n	1.0443
115	5	PCB-161	40:07	7.818e+03	6.414e+03	1.22	y	n	1.6336
116	5	PCB-153/168	40:37	1.344e+04	1.096e+04	1.23	y	n	1.4005
117	5	PCB-141	40:48	4.053e+03	3.238e+03	1.25	y	n	0.8370
118	5	PCB-130	41:12	4.934e+03	4.052e+03	1.22	y	n	1.0315
119	5	PCB-137	41:25	5.066e+03	4.188e+03	1.21	y	n	1.0622
120	5	PCB-164	41:32	7.243e+03	5.877e+03	1.23	y	n	1.5060
121	5	PCB-129/138/163	41:52	1.750e+04	1.420e+04	1.23	y	n	1.2128
122	5	PCB-160	42:00	7.102e+03	5.626e+03	1.26	y	n	1.4610
123	5	PCB-158	42:14	7.627e+03	6.033e+03	1.26	y	n	1.5679
124	5	PCB-128/166	43:05	1.227e+04	9.873e+03	1.24	y	n	1.2711
125	6	PCB-159	44:07	5.570e+03	4.422e+03	1.26	y	n	1.1470
126	6	PCB-162	44:24	5.585e+03	4.280e+03	1.30	y	n	1.1324
127	6	PCB-167	NotFnd	*	*	*	n	n	1.0081
128	6	PCB-156/157	NotFnd	*	*	*	n	n	1.0060
129	6	PCB-169	NotFnd	*	*	*	n	n	0.9915
130	5	PCB-188	NotFnd	*	*	*	n	n	0.9902
131	5	PCB-179	39:35	7.041e+03	7.088e+03	0.99	y	n	1.6727
132	5	PCB-184	40:06	7.347e+03	7.399e+03	0.99	y	n	1.7458
133	5	PCB-176	40:27	7.330e+03	7.369e+03	0.99	y	n	1.7403
134	5	PCB-186	40:54	3.960e+03	4.026e+03	0.98	y	n	0.9454
135	5	PCB-178	42:18	5.304e+03	5.304e+03	1.00	y	n	1.2560
136	5	PCB-175	42:55	5.691e+03	5.420e+03	1.05	y	n	1.3155
137	5	PCB-187	43:12	5.611e+03	5.636e+03	1.00	y	n	1.3316
138	5	PCB-182	43:24	5.313e+03	5.362e+03	0.99	y	n	1.2638
139	6	PCB-183	43:50	4.260e+03	4.205e+03	1.01	y	n	1.0023
140	6	PCB-185	43:55	3.513e+03	3.501e+03	1.00	y	n	0.8309
141	6	PCB-174	44:03	3.421e+03	3.410e+03	1.00	y	n	0.8087
142	6	PCB-177	44:30	3.409e+03	3.603e+03	0.95	y	n	0.8302
143	6	PCB-181	44:53	3.516e+03	3.583e+03	0.98	y	n	0.8405
144	6	PCB-171/173	45:06	6.767e+03	6.846e+03	0.99	y	n	0.8059
145	6	PCB-172	46:46	3.340e+03	3.336e+03	1.00	y	n	0.7904
146	6	PCB-192	47:03	4.005e+03	4.187e+03	0.96	y	n	0.9699
147	6	PCB-180/193	47:22	7.983e+03	7.903e+03	1.01	y	n	0.9405
148	6	PCB-191	47:46	4.433e+03	4.459e+03	0.99	y	n	1.0528
149	6	PCB-170	48:41	3.132e+03	3.113e+03	1.01	y	n	0.7394
150	6	PCB-190	49:13	4.207e+03	4.221e+03	1.00	y	y	0.9979
151	6	PCB-189	NotFnd	*	*	*	n	n	0.8632
152	6	PCB-202	NotFnd	*	*	*	n	n	0.8634
153	6	PCB-201	45:32	7.039e+03	8.378e+03	0.84	y	n	1.3958
154	6	PCB-204	46:13	7.104e+03	8.070e+03	0.88	y	n	1.3739
155	6	PCB-197	46:26	6.961e+03	8.177e+03	0.85	y	n	1.3706
156	6	PCB-200	46:33	6.617e+03	7.712e+03	0.86	y	n	1.2973
157	6	PCB-198/199	49:21	9.202e+03	1.073e+04	0.86	y	n	0.9021
158	6	PCB-196	50:02	4.269e+03	4.903e+03	0.87	y	n	0.8305
159	6	PCB-203	50:13	4.550e+03	5.244e+03	0.87	y	n	0.8868
160	6	PCB-195	51:33	4.147e+03	4.761e+03	0.87	y	n	0.8066
161	6	PCB-194	53:53	4.059e+03	4.655e+03	0.87	y	n	0.7890
162	6	PCB-205	NotFnd	*	*	*	n	n	0.8885
163	6	PCB-208	NotFnd	*	*	*	n	n	0.8804
164	6	PCB-207	52:13	4.170e+03	5.301e+03	0.79	y	n	1.0703

165	7	PCB-206	NotFnd	*	*	*	n	n	0.9310
166	7	PCB-209	NotFnd	*	*	*	n	n	0.8938
167	1	PCB-1L	13:20	2.386e+04	7.885e+03	3.03	y	n	1.2197
168	1	PCB-3L	15:36	2.371e+04	7.374e+03	3.22	y	n	1.1732
169	1	PCB-4L	15:51	1.425e+04	9.034e+03	1.58	y	n	0.8031
170	2	PCB-15L	21:54	1.607e+04	1.036e+04	1.55	y	n	0.9620
171	2	PCB-19L	19:02	9.750e+03	9.356e+03	1.04	y	n	0.6361
172	3	PCB-37L	29:02	1.338e+04	1.280e+04	1.05	y	n	1.1440
173	2	PCB-54L	22:10	1.121e+04	1.412e+04	0.79	y	n	1.1399
174	4	PCB-81L	35:49	9.717e+03	1.229e+04	0.79	y	n	0.9468
175	4	PCB-77L	36:23	9.986e+03	1.250e+04	0.80	y	n	0.9489
176	3	PCB-104L	27:46	1.794e+04	1.133e+04	1.58	y	n	1.3966
177	5	PCB-123L	38:23	1.257e+04	8.099e+03	1.55	y	n	1.0295
178	5	PCB-118L	38:43	1.316e+04	8.163e+03	1.61	y	n	1.0766
179	5	PCB-114L	39:15	1.268e+04	8.076e+03	1.57	y	n	1.0747
180	5	PCB-105L	39:53	6.755e+03	4.226e+03	1.60	y	n	1.0133
181	5	PCB-126L	42:59	1.040e+04	6.822e+03	1.53	y	n	0.8978
182	4	PCB-155L	33:28	1.716e+04	1.370e+04	1.25	y	n	1.6371
183	6	PCB-167L	44:51	8.432e+03	6.659e+03	1.27	y	n	0.8820
184	6	PCB-156/157L	46:00	1.578e+04	1.261e+04	1.25	y	n	0.8178
185	6	PCB-169L	49:16	7.128e+03	5.653e+03	1.26	y	n	0.7164
186	5	PCB-188L	39:13	1.405e+04	1.324e+04	1.06	y	n	2.3576
187	6	PCB-189L	51:47	3.305e+03	3.190e+03	1.04	y	n	1.3072
188	6	PCB-202L	44:35	8.701e+03	9.637e+03	0.90	y	n	1.8040
189	6	PCB-205L	54:19	5.234e+03	5.881e+03	0.89	y	n	1.3631
190	6	PCB-208L	51:16	6.346e+03	7.989e+03	0.79	y	n	1.3370
191	7	PCB-206L	56:03	4.114e+03	5.148e+03	0.80	y	n	0.9978
192	7	PCB-209L	57:38	6.248e+03	5.150e+03	1.21	y	n	1.5625
193	3	PCB-28L	NotFnd	*	*	*	n	n	1.3869
194	4	PCB-111L	NotFnd	*	*	*	n	n	1.2384
195	5	PCB-178L	NotFnd	*	*	*	n	n	0.9527
196	2	PCB-9L	NotFnd	*	*	*	n	n	-
197	3	PCB-52L	NotFnd	*	*	*	n	n	-
198	4	PCB-101L	NotFnd	*	*	*	n	n	-
199	5	PCB-138L	NotFnd	*	*	*	n	n	-
200	6	PCB-194L	NotFnd	*	*	*	n	n	-

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
DCCS-209

Run #8 Filename U142187#1 Samp: 1 Inj: 1 Acquired: 28-NOV-11 05:24:42

Processed: 30-NOV-11 09:34:28 LAB. ID: B4-25-1

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	*	2.02e+03	*	*	1.38e+03	*
2	PCB-2	1.47e+06	2.02e+03	7.3e+02	4.65e+05	1.38e+03	3.4e+02
3	PCB-3	*	2.02e+03	*	*	1.38e+03	*
4	PCB-4	*	2.25e+03	*	*	2.45e+04	*
5	PCB-10	1.46e+06	2.25e+03	6.5e+02	9.20e+05	2.45e+04	3.7e+01
6	PCB-9	1.10e+06	2.97e+03	3.7e+02	7.10e+05	2.80e+04	2.5e+01
7	PCB-7	1.02e+06	2.97e+03	3.4e+02	6.62e+05	2.80e+04	2.4e+01
8	PCB-6	1.04e+06	2.97e+03	3.5e+02	6.50e+05	2.80e+04	2.3e+01
9	PCB-5	9.26e+05	2.97e+03	3.1e+02	5.99e+05	2.80e+04	2.1e+01
10	PCB-8	1.07e+06	2.97e+03	3.6e+02	7.23e+05	2.80e+04	2.6e+01
11	PCB-14	9.84e+05	2.97e+03	3.3e+02	6.65e+05	2.80e+04	2.4e+01
12	PCB-11	8.83e+05	2.97e+03	3.0e+02	5.59e+05	2.80e+04	2.0e+01
13	PCB-12/13	1.34e+06	2.97e+03	4.5e+02	8.56e+05	2.80e+04	3.1e+01
14	PCB-15	*	2.97e+03	*	*	2.80e+04	*
15	PCB-19	*	1.68e+03	*	*	7.84e+02	*
16	PCB-18/30	1.32e+06	1.68e+03	7.8e+02	1.29e+06	7.84e+02	1.6e+03
17	PCB-17	5.83e+05	1.68e+03	3.5e+02	5.88e+05	7.84e+02	7.5e+02
18	PCB-27	8.65e+05	1.68e+03	5.1e+02	8.71e+05	7.84e+02	1.1e+03
19	PCB-24	7.87e+05	1.68e+03	4.7e+02	8.10e+05	7.84e+02	1.0e+03
20	PCB-16	4.92e+05	1.68e+03	2.9e+02	4.90e+05	7.84e+02	6.3e+02
21	PCB-32	8.86e+05	1.68e+03	5.3e+02	8.77e+05	7.84e+02	1.1e+03
22	PCB-34	8.30e+05	4.32e+04	1.9e+01	7.96e+05	4.35e+04	1.8e+01
23	PCB-23	7.59e+05	4.32e+04	1.8e+01	7.35e+05	4.35e+04	1.7e+01
24	PCB-26/29	1.46e+06	4.32e+04	3.4e+01	1.41e+06	4.35e+04	3.2e+01
25	PCB-25	8.39e+05	4.32e+04	1.9e+01	8.12e+05	4.35e+04	1.9e+01
26	PCB-31	8.80e+05	4.32e+04	2.0e+01	8.58e+05	4.35e+04	2.0e+01
27	PCB-20/28	1.39e+06	4.32e+04	3.2e+01	1.42e+06	4.35e+04	3.3e+01
28	PCB-21/33	1.04e+06	4.32e+04	2.4e+01	9.83e+05	4.35e+04	2.3e+01
29	PCB-22	7.68e+05	4.32e+04	1.8e+01	7.31e+05	4.35e+04	1.7e+01
30	PCB-36	8.07e+05	4.32e+04	1.9e+01	7.95e+05	4.35e+04	1.8e+01
31	PCB-39	7.71e+05	4.32e+04	1.8e+01	7.36e+05	4.35e+04	1.7e+01
32	PCB-38	7.74e+05	4.32e+04	1.8e+01	7.38e+05	4.35e+04	1.7e+01
33	PCB-35	7.14e+05	4.32e+04	1.7e+01	6.43e+05	4.35e+04	1.5e+01
34	PCB-37	*	4.32e+04	*	*	4.35e+04	*
35	PCB-54	*	8.36e+02	*	*	9.80e+02	*
36	PCB-50/53	1.73e+06	1.66e+03	1.0e+03	2.32e+06	1.12e+03	2.1e+03
37	PCB-45/51	1.06e+06	1.66e+03	6.4e+02	1.38e+06	1.12e+03	1.2e+03
38	PCB-46	8.14e+05	1.66e+03	4.9e+02	1.05e+06	1.12e+03	9.4e+02
39	PCB-52	1.08e+06	1.66e+03	6.5e+02	1.43e+06	1.12e+03	1.3e+03
40	PCB-43/73	1.36e+06	1.66e+03	8.2e+02	1.81e+06	1.12e+03	1.6e+03
41	PCB-49/69	1.75e+06	1.66e+03	1.0e+03	2.29e+06	1.12e+03	2.0e+03
42	PCB-48	9.97e+05	1.66e+03	6.0e+02	1.33e+06	1.12e+03	1.2e+03
43	PCB-44/47/65	2.68e+06	1.66e+03	1.6e+03	3.53e+06	1.12e+03	3.2e+03
44	PCB-59/62/75	2.84e+06	1.66e+03	1.7e+03	3.66e+06	1.12e+03	3.3e+03
45	PCB-42	9.71e+05	1.66e+03	5.8e+02	1.26e+06	1.12e+03	1.1e+03
46	PCB-40/41/71	2.00e+06	1.66e+03	1.2e+03	2.60e+06	1.12e+03	2.3e+03
47	PCB-64	1.35e+06	1.66e+03	8.1e+02	1.79e+06	1.12e+03	1.6e+03

Run #8 Filename U142187#1 Samp: 1 Acquired: 28-NOV-11 05:24:42

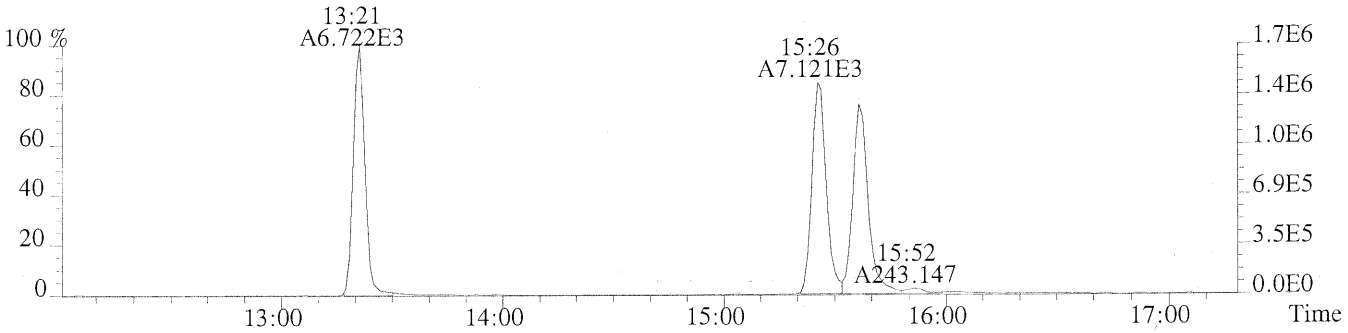
48	PCB-72	1.49e+06	1.66e+03	9.0e+02	1.89e+06	1.12e+03	1.7e+03
49	PCB-68	1.35e+06	1.66e+03	8.1e+02	1.69e+06	1.12e+03	1.5e+03
50	PCB-57	1.32e+06	1.66e+03	7.9e+02	1.70e+06	1.12e+03	1.5e+03
51	PCB-58	1.25e+06	1.66e+03	7.5e+02	1.58e+06	1.12e+03	1.4e+03
52	PCB-67	1.33e+06	1.66e+03	8.0e+02	1.66e+06	1.12e+03	1.5e+03
53	PCB-63	1.40e+06	1.66e+03	8.4e+02	1.75e+06	1.12e+03	1.6e+03
54	PCB-61/70/74/76	2.75e+06	1.66e+03	1.6e+03	3.62e+06	1.12e+03	3.2e+03
55	PCB-66	1.33e+06	1.66e+03	8.0e+02	1.71e+06	1.12e+03	1.5e+03
56	PCB-55	1.23e+06	1.66e+03	7.4e+02	1.57e+06	1.12e+03	1.4e+03
57	PCB-56	1.10e+06	1.86e+04	5.9e+01	1.43e+06	2.17e+04	6.6e+01
58	PCB-60	1.15e+06	1.86e+04	6.2e+01	1.47e+06	2.17e+04	6.8e+01
59	PCB-80	1.31e+06	1.86e+04	7.1e+01	1.67e+06	2.17e+04	7.7e+01
60	PCB-79	1.24e+06	1.86e+04	6.7e+01	1.57e+06	2.17e+04	7.2e+01
61	PCB-78	1.14e+06	1.86e+04	6.1e+01	1.47e+06	2.17e+04	6.8e+01
62	PCB-81	*	1.86e+04	*	*	2.17e+04	*
63	PCB-77	*	1.86e+04	*	*	2.17e+04	*
64	PCB-104	*	4.50e+03	*	*	2.80e+03	*
65	PCB-96	1.82e+06	4.50e+03	4.0e+02	1.14e+06	2.80e+03	4.1e+02
66	PCB-103	1.61e+06	4.50e+03	3.6e+02	1.00e+06	2.80e+03	3.6e+02
67	PCB-94	1.21e+06	4.50e+03	2.7e+02	7.96e+05	2.80e+03	2.8e+02
68	PCB-95	1.44e+06	4.50e+03	3.2e+02	8.88e+05	2.80e+03	3.2e+02
69	PCB-93/100	2.52e+06	4.50e+03	5.6e+02	1.62e+06	2.80e+03	5.8e+02
70	PCB-98/102	1.68e+06	4.50e+03	3.7e+02	1.05e+06	2.80e+03	3.7e+02
71	PCB-88/91	1.45e+06	4.50e+03	3.2e+02	8.98e+05	2.80e+03	3.2e+02
72	PCB-84	1.15e+06	4.50e+03	2.5e+02	7.17e+05	2.80e+03	2.6e+02
73	PCB-89	1.29e+06	4.50e+03	2.9e+02	8.23e+05	2.80e+03	2.9e+02
74	PCB-121	1.72e+06	1.11e+04	1.6e+02	1.15e+06	8.21e+03	1.4e+02
75	PCB-92	1.31e+06	1.11e+04	1.2e+02	8.48e+05	8.21e+03	1.0e+02
76	PCB-90/101/113	3.04e+06	1.11e+04	2.7e+02	1.94e+06	8.21e+03	2.4e+02
77	PCB-83/99	1.49e+06	1.11e+04	1.3e+02	9.14e+05	8.21e+03	1.1e+02
78	PCB-112	1.68e+06	1.11e+04	1.5e+02	1.08e+06	8.21e+03	1.3e+02
79	CB-86/87/97/109/119/125	5.05e+06	1.11e+04	4.6e+02	3.17e+06	8.21e+03	3.9e+02
80	PCB-117	1.82e+06	1.11e+04	1.6e+02	1.16e+06	8.21e+03	1.4e+02
81	PCB-85/116	2.88e+06	1.11e+04	2.6e+02	1.81e+06	8.21e+03	2.2e+02
82	PCB-110/115	1.89e+06	1.11e+04	1.7e+02	1.21e+06	8.21e+03	1.5e+02
83	PCB-82	1.13e+06	1.11e+04	1.0e+02	6.97e+05	8.21e+03	8.5e+01
84	PCB-111	1.62e+06	1.11e+04	1.5e+02	1.05e+06	8.21e+03	1.3e+02
85	PCB-120	1.77e+06	1.11e+04	1.6e+02	1.13e+06	8.21e+03	1.4e+02
86	PCB-108/124	2.84e+06	6.23e+04	4.6e+01	1.82e+06	3.43e+04	5.3e+01
87	PCB-107	1.42e+06	6.23e+04	2.3e+01	9.31e+05	3.43e+04	2.7e+01
88	PCB-123	*	6.23e+04	*	*	3.43e+04	*
89	PCB-106	1.52e+06	6.23e+04	2.4e+01	9.33e+05	3.43e+04	2.7e+01
90	PCB-118	*	6.23e+04	*	*	3.43e+04	*
91	PCB-122	1.34e+06	6.23e+04	2.2e+01	8.63e+05	3.43e+04	2.5e+01
92	PCB-114	*	6.23e+04	*	*	3.43e+04	*
93	PCB-105	*	6.23e+04	*	*	3.43e+04	*
94	PCB-127	1.29e+06	6.23e+04	2.1e+01	8.55e+05	3.43e+04	2.5e+01
95	PCB-126	*	6.23e+04	*	*	3.43e+04	*
96	PCB-155	*	5.27e+03	*	*	3.20e+03	*
97	PCB-152	1.63e+06	5.27e+03	3.1e+02	1.38e+06	3.20e+03	4.3e+02
98	PCB-150	1.54e+06	5.27e+03	2.9e+02	1.36e+06	3.20e+03	4.3e+02
99	PCB-136	1.61e+06	5.27e+03	3.1e+02	1.37e+06	3.20e+03	4.3e+02
100	PCB-145	1.53e+06	5.27e+03	2.9e+02	1.29e+06	3.20e+03	4.0e+02
101	PCB-148	1.21e+06	5.27e+03	2.3e+02	1.02e+06	3.20e+03	3.2e+02
102	PCB-135/151	1.39e+06	5.27e+03	2.6e+02	1.18e+06	3.20e+03	3.7e+02
103	PCB-154	1.30e+06	5.27e+03	2.5e+02	1.13e+06	3.20e+03	3.5e+02
104	PCB-144	1.21e+06	5.27e+03	2.3e+02	1.04e+06	3.20e+03	3.3e+02

PCB-147/149	2.21e+06	1.83e+04	1.2e+02	1.86e+06	1.03e+04	1.8e+02
PCB-134	9.20e+05	1.83e+04	5.0e+01	7.76e+05	1.03e+04	7.5e+01
PCB-143	1.08e+06	1.83e+04	5.9e+01	8.74e+05	1.03e+04	8.5e+01
PCB-139/140	2.08e+06	1.83e+04	1.1e+02	1.68e+06	1.03e+04	1.6e+02
PCB-131	9.53e+05	1.83e+04	5.2e+01	7.85e+05	1.03e+04	7.6e+01
PCB-142	1.01e+06	1.83e+04	5.5e+01	8.30e+05	1.03e+04	8.0e+01
PCB-132	9.05e+05	1.83e+04	4.9e+01	7.70e+05	1.03e+04	7.5e+01
PCB-133	1.04e+06	1.83e+04	5.7e+01	8.53e+05	1.03e+04	8.3e+01
PCB-165	8.88e+05	1.83e+04	4.8e+01	6.99e+05	1.03e+04	6.8e+01
PCB-146	9.99e+05	1.83e+04	5.5e+01	8.04e+05	1.03e+04	7.8e+01
PCB-161	1.38e+06	1.83e+04	7.5e+01	1.11e+06	1.03e+04	1.1e+02
PCB-153/168	1.98e+06	1.83e+04	1.1e+02	1.60e+06	1.03e+04	1.6e+02
PCB-141	7.07e+05	1.83e+04	3.9e+01	5.75e+05	1.03e+04	5.6e+01
PCB-130	8.73e+05	1.83e+04	4.8e+01	7.14e+05	1.03e+04	6.9e+01
PCB-137	9.70e+05	1.83e+04	5.3e+01	7.88e+05	1.03e+04	7.6e+01
PCB-164	1.23e+06	1.83e+04	6.7e+01	9.85e+05	1.03e+04	9.6e+01
PCB-129/138/163	2.56e+06	1.83e+04	1.4e+02	2.05e+06	1.03e+04	2.0e+02
PCB-160	1.26e+06	1.83e+04	6.9e+01	1.00e+06	1.03e+04	9.7e+01
PCB-158	1.31e+06	1.83e+04	7.2e+01	1.04e+06	1.03e+04	1.0e+02
PCB-128/166	1.90e+06	1.83e+04	1.0e+02	1.56e+06	1.03e+04	1.5e+02
PCB-159	1.12e+06	3.53e+03	3.2e+02	8.98e+05	2.46e+03	3.6e+02
PCB-162	1.11e+06	3.53e+03	3.1e+02	8.56e+05	2.46e+03	3.5e+02
PCB-167	*	3.53e+03	*	*	2.46e+03	*
PCB-156/157	*	3.53e+03	*	*	2.46e+03	*
PCB-169	*	3.53e+03	*	*	2.46e+03	*
PCB-188	*	3.34e+03	*	*	1.58e+03	*
PCB-179	1.26e+06	3.34e+03	3.8e+02	1.26e+06	1.58e+03	8.0e+02
PCB-184	1.31e+06	3.34e+03	3.9e+02	1.32e+06	1.58e+03	8.4e+02
PCB-176	1.27e+06	3.34e+03	3.8e+02	1.30e+06	1.58e+03	8.3e+02
PCB-186	6.65e+05	3.34e+03	2.0e+02	6.75e+05	1.58e+03	4.3e+02
PCB-178	9.46e+05	3.34e+03	2.8e+02	9.27e+05	1.58e+03	5.9e+02
PCB-175	9.81e+05	3.34e+03	2.9e+02	9.30e+05	1.58e+03	5.9e+02
PCB-187	9.58e+05	3.34e+03	2.9e+02	9.61e+05	1.58e+03	6.1e+02
PCB-182	9.05e+05	3.34e+03	2.7e+02	9.28e+05	1.58e+03	5.9e+02
PCB-183	9.15e+05	4.84e+03	1.9e+02	8.94e+05	1.97e+03	4.5e+02
PCB-185	7.82e+05	4.84e+03	1.6e+02	8.04e+05	1.97e+03	4.1e+02
PCB-174	7.47e+05	4.84e+03	1.5e+02	7.49e+05	1.97e+03	3.8e+02
PCB-177	7.22e+05	4.84e+03	1.5e+02	7.56e+05	1.97e+03	3.8e+02
PCB-181	7.51e+05	4.84e+03	1.6e+02	7.51e+05	1.97e+03	3.8e+02
PCB-171/173	1.29e+06	4.84e+03	2.7e+02	1.31e+06	1.97e+03	6.6e+02
PCB-172	7.28e+05	4.84e+03	1.5e+02	6.98e+05	1.97e+03	3.5e+02
PCB-192	8.50e+05	4.84e+03	1.8e+02	8.87e+05	1.97e+03	4.5e+02
PCB-180/193	1.21e+06	4.84e+03	2.5e+02	1.20e+06	1.97e+03	6.1e+02
PCB-191	9.08e+05	4.84e+03	1.9e+02	9.07e+05	1.97e+03	4.6e+02
PCB-170	6.43e+05	4.84e+03	1.3e+02	6.48e+05	1.97e+03	3.3e+02
PCB-190	8.48e+05	4.84e+03	1.8e+02	8.43e+05	1.97e+03	4.3e+02
PCB-189	*	4.84e+03	*	*	1.97e+03	*
PCB-202	*	1.48e+03	*	*	1.70e+03	*
PCB-201	1.49e+06	1.48e+03	1.0e+03	1.80e+06	1.70e+03	1.1e+03
PCB-204	1.52e+06	1.48e+03	1.0e+03	1.70e+06	1.70e+03	1.0e+03
PCB-197	1.44e+06	1.48e+03	9.7e+02	1.67e+06	1.70e+03	9.8e+02
PCB-200	1.44e+06	1.48e+03	9.8e+02	1.71e+06	1.70e+03	1.0e+03
PCB-198/199	1.42e+06	1.48e+03	9.6e+02	1.64e+06	1.70e+03	9.7e+02
PCB-196	8.66e+05	1.48e+03	5.8e+02	1.00e+06	1.70e+03	5.9e+02
PCB-203	9.03e+05	1.48e+03	6.1e+02	1.04e+06	1.70e+03	6.1e+02
PCB-195	8.69e+05	1.48e+03	5.9e+02	1.00e+06	1.70e+03	5.9e+02
PCB-194	8.60e+05	1.48e+03	5.8e+02	9.92e+05	1.70e+03	5.8e+02
PCB-205	*	1.48e+03	*	*	1.70e+03	*

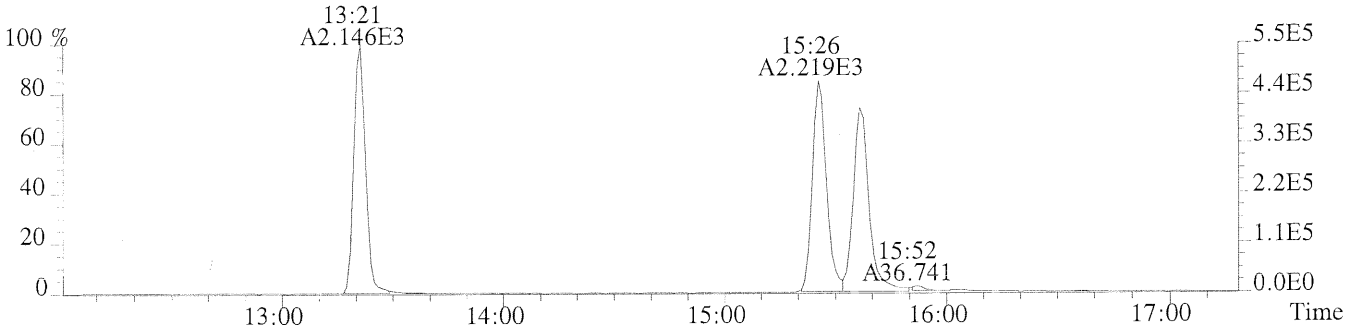
163	PCB-208	*	1.19e+03	*	*	1.18e+03	*
164	PCB-207	9.29e+05	1.19e+03	7.8e+02	1.17e+06	1.18e+03	9.9e+02
165	PCB-206	*	1.10e+03	*	*	1.13e+03	*
166	PCB-209	*	8.35e+03	*	*	1.04e+04	*
167	PCB-1L	6.21e+06	2.35e+03	2.6e+03	2.01e+06	6.24e+04	3.2e+01
168	PCB-3L	4.68e+06	2.35e+03	2.0e+03	1.50e+06	6.24e+04	2.4e+01
169	PCB-4L	3.17e+06	1.27e+03	2.5e+03	1.98e+06	1.62e+03	1.2e+03
170	PCB-15L	2.80e+06	1.56e+03	1.8e+03	1.81e+06	2.32e+03	7.8e+02
171	PCB-19L	2.04e+06	1.46e+04	1.4e+02	1.98e+06	1.20e+04	1.6e+02
172	PCB-37L	2.20e+06	1.44e+04	1.5e+02	2.09e+06	1.16e+04	1.8e+02
173	PCB-54L	2.26e+06	2.79e+03	8.1e+02	2.84e+06	1.38e+03	2.1e+03
174	PCB-81L	1.69e+06	2.03e+03	8.3e+02	2.14e+06	1.33e+03	1.6e+03
175	PCB-77L	1.66e+06	2.03e+03	8.2e+02	2.05e+06	1.33e+03	1.5e+03
176	PCB-104L	3.23e+06	1.30e+03	2.5e+03	2.03e+06	9.16e+02	2.2e+03
177	PCB-123L	2.25e+06	8.14e+03	2.8e+02	1.45e+06	6.07e+03	2.4e+02
178	PCB-118L	2.30e+06	8.14e+03	2.8e+02	1.44e+06	6.07e+03	2.4e+02
179	PCB-114L	2.24e+06	8.14e+03	2.8e+02	1.40e+06	6.07e+03	2.3e+02
180	PCB-105L	1.14e+06	8.14e+03	1.4e+02	7.22e+05	6.07e+03	1.2e+02
181	PCB-126L	1.79e+06	8.14e+03	2.2e+02	1.18e+06	6.07e+03	1.9e+02
182	PCB-155L	3.11e+06	8.60e+02	3.6e+03	2.49e+06	1.54e+03	1.6e+03
183	PCB-167L	1.78e+06	1.45e+03	1.2e+03	1.41e+06	1.52e+03	9.3e+02
184	PCB-156/157L	2.48e+06	1.45e+03	1.7e+03	1.98e+06	1.52e+03	1.3e+03
185	PCB-169L	1.43e+06	1.45e+03	9.9e+02	1.12e+06	1.52e+03	7.3e+02
186	PCB-188L	2.53e+06	2.37e+03	1.1e+03	2.38e+06	1.71e+03	1.4e+03
187	PCB-189L	7.13e+05	1.50e+03	4.8e+02	6.65e+05	8.60e+02	7.7e+02
188	PCB-202L	1.84e+06	1.25e+03	1.5e+03	2.06e+06	1.54e+03	1.3e+03
189	PCB-205L	1.07e+06	1.25e+03	8.6e+02	1.21e+06	1.54e+03	7.9e+02
190	PCB-208L	1.33e+06	9.92e+02	1.3e+03	1.67e+06	1.08e+03	1.5e+03
191	PCB-206L	7.65e+05	9.40e+02	8.1e+02	9.34e+05	1.10e+03	8.5e+02
192	PCB-209L	1.11e+06	7.24e+02	1.5e+03	9.15e+05	7.40e+02	1.2e+03
193	PCB-28L	*	1.44e+04	*	*	1.16e+04	*
194	PCB-111L	*	1.65e+03	*	*	1.20e+03	*
195	PCB-178L	*	2.37e+03	*	*	1.71e+03	*
196	PCB-9L	*	1.56e+03	*	*	2.32e+03	*
197	PCB-52L	*	2.42e+03	*	*	1.35e+03	*
198	PCB-101L	*	1.65e+03	*	*	1.20e+03	*
199	PCB-138L	*	2.26e+03	*	*	1.94e+03	*
200	PCB-194L	*	1.25e+03	*	*	1.54e+03	*

File:U142187 #1-341 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

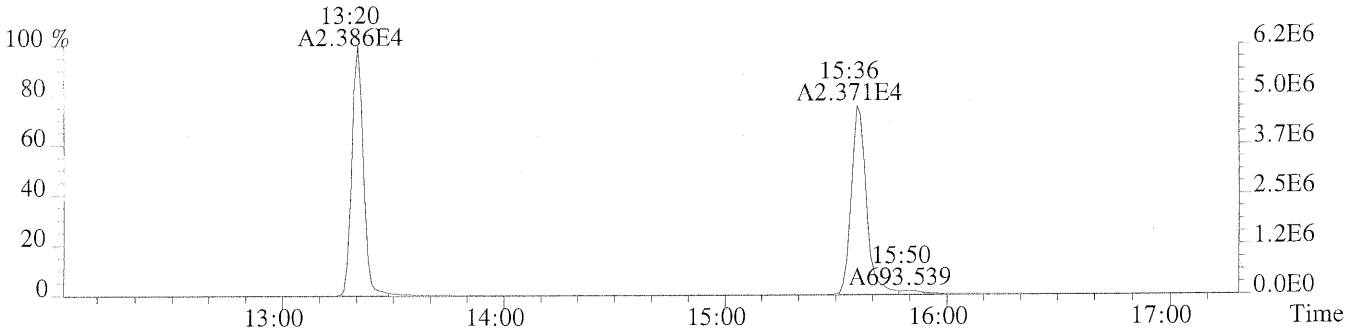
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2024.0,1.00%,F,T)



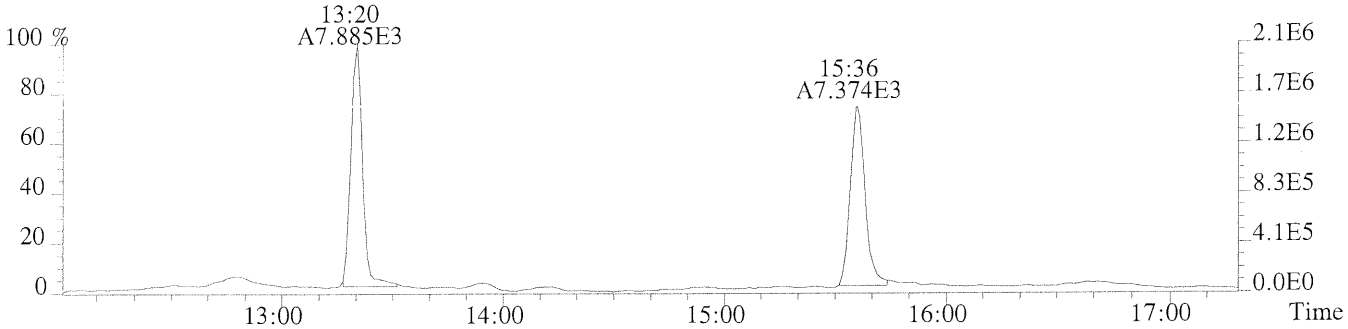
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1376.0,1.00%,F,T)



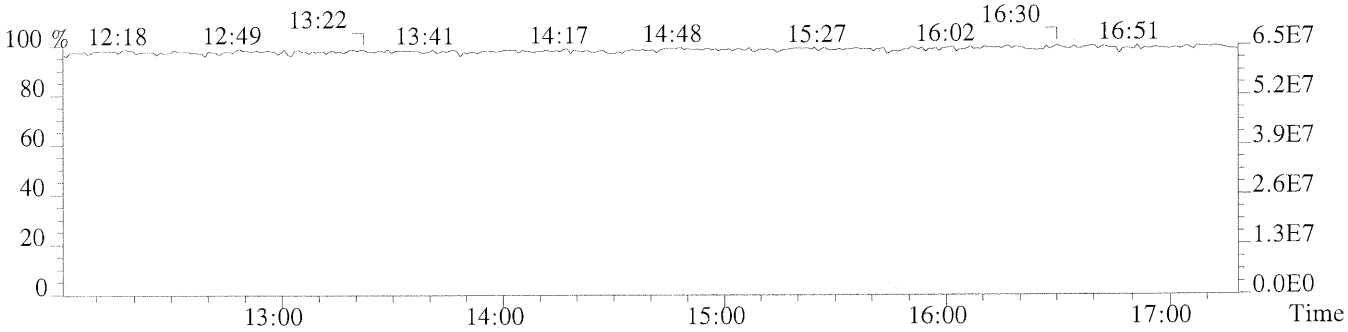
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2352.0,1.00%,F,T)



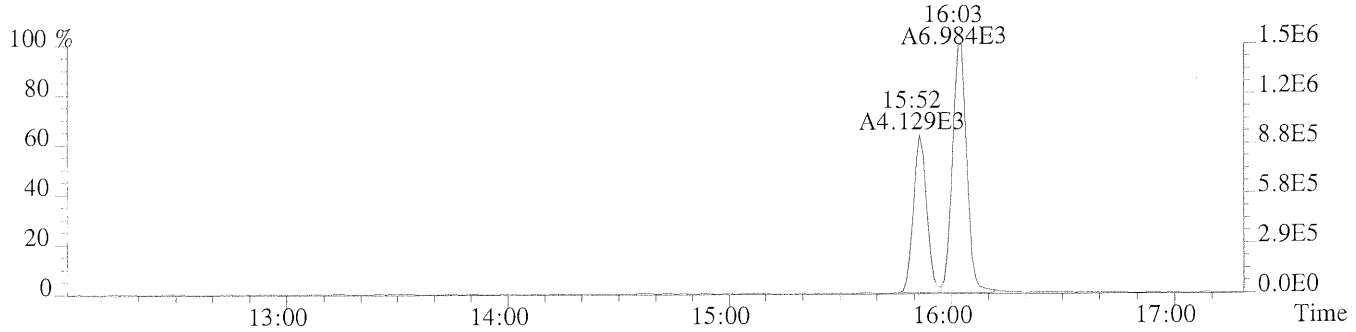
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,62396.0,1.00%,F,T)



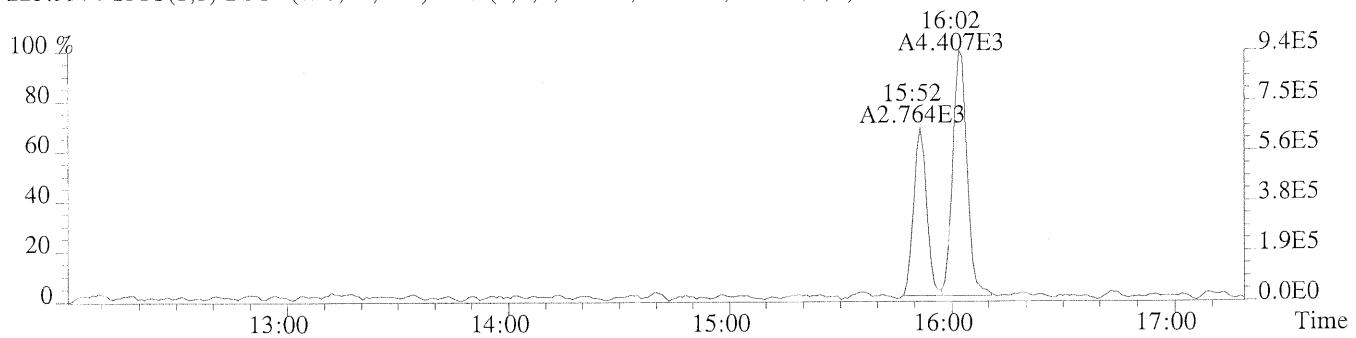
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



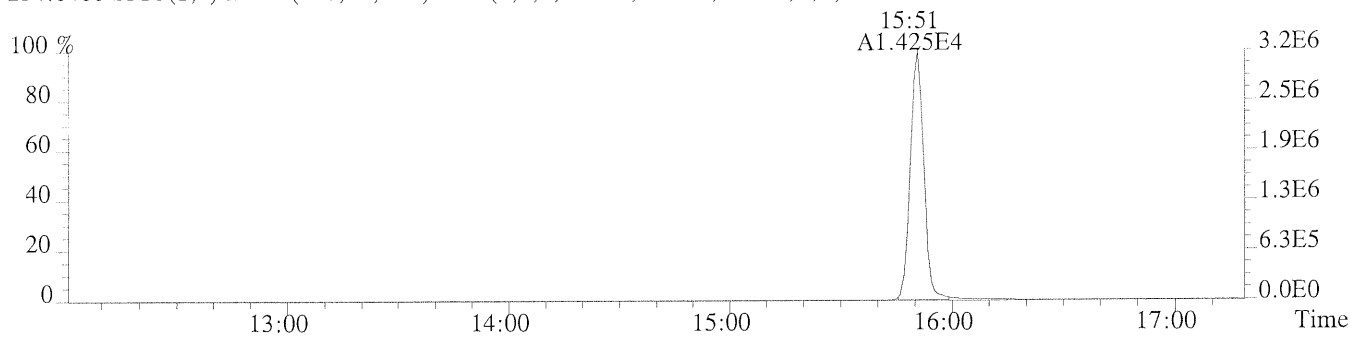
File:U142187 #1-341 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2248.0,1.00%,F,T)



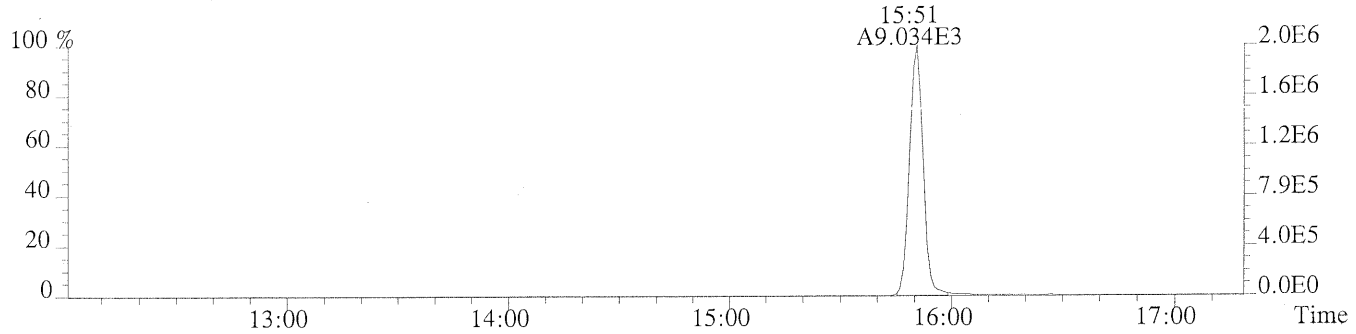
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,24544.0,1.00%,F,T)



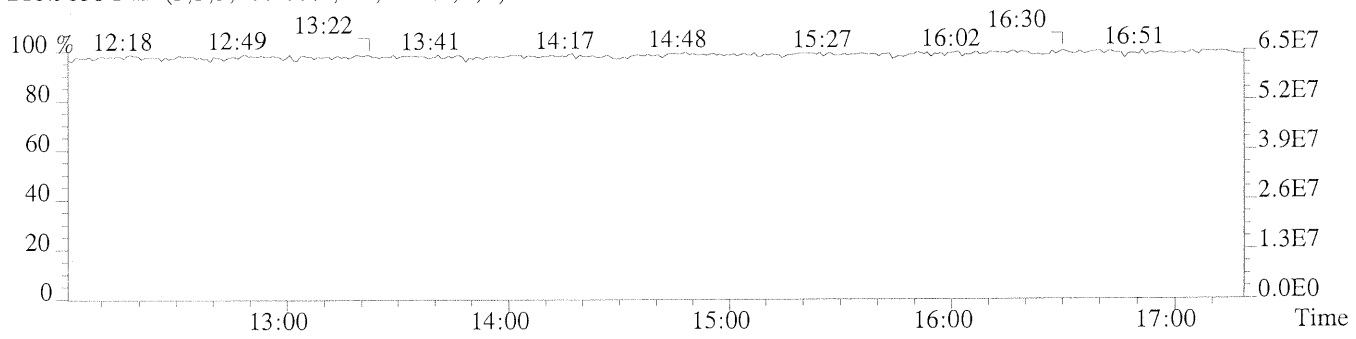
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1268.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1624.0,1.00%,F,T)

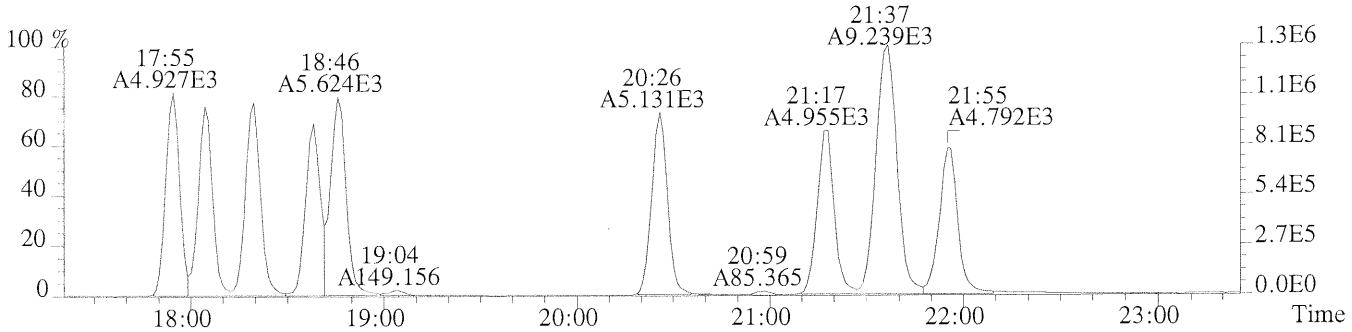


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

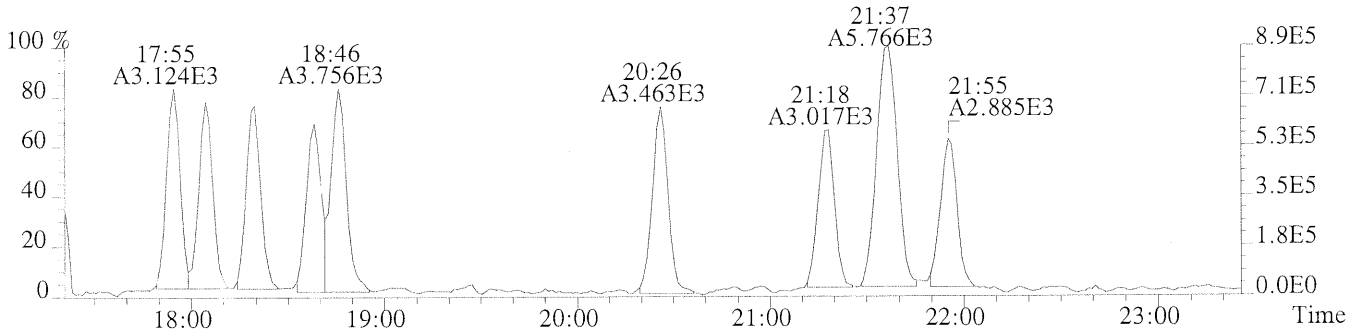


File:U142187 #1-336 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

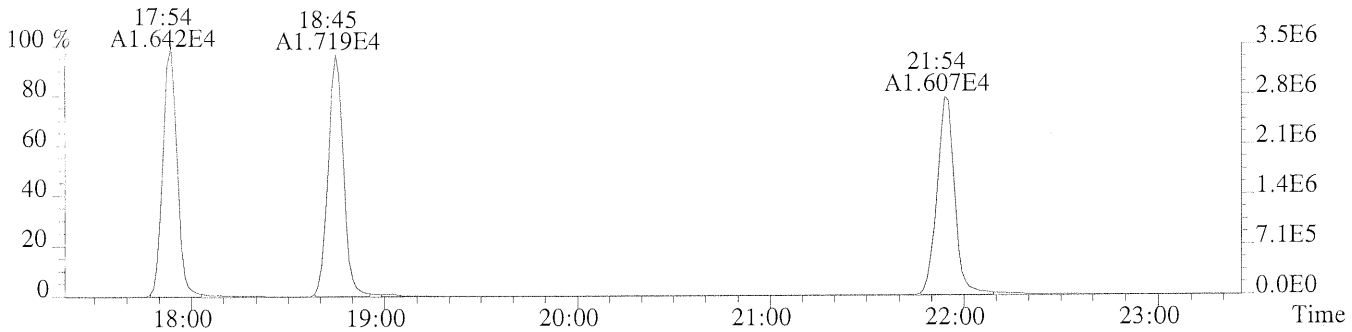
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2972.0,1.00%,F,T)



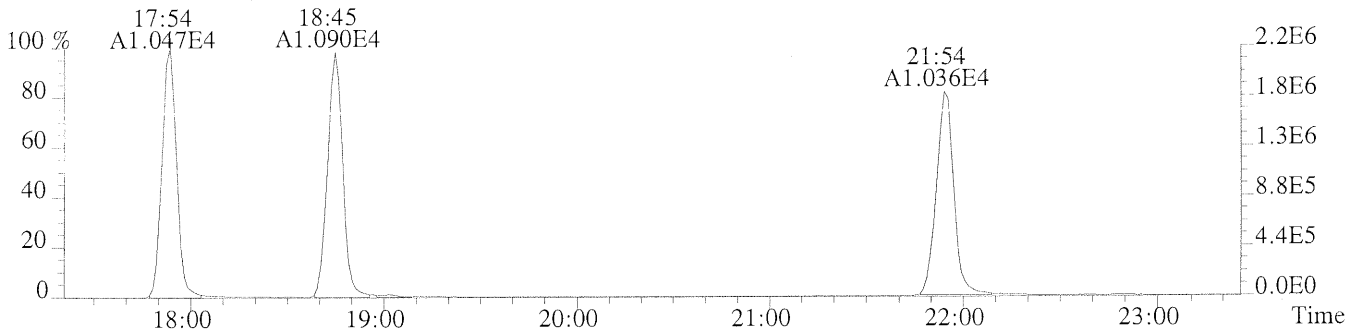
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,28036.0,1.00%,F,T)



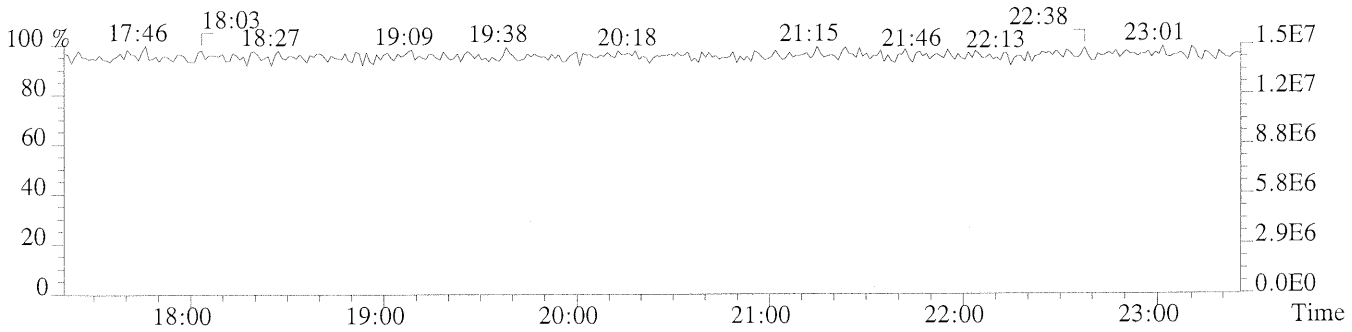
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1556.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2316.0,1.00%,F,T)

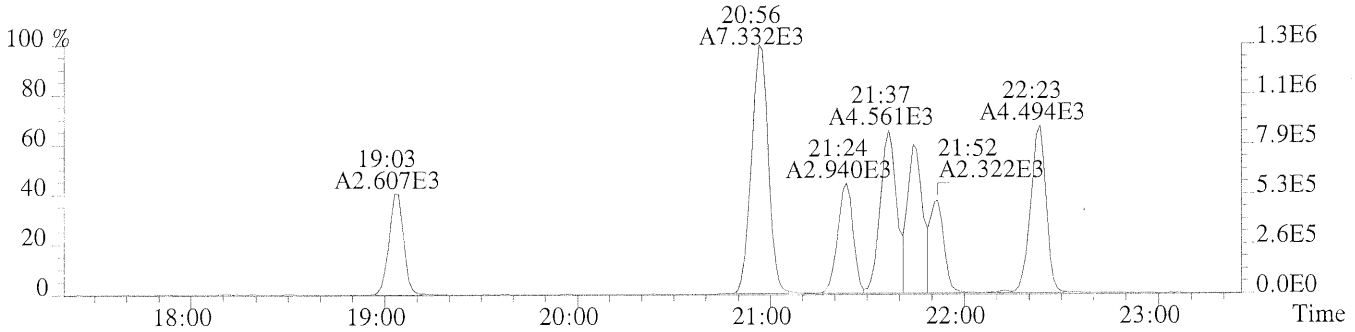


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

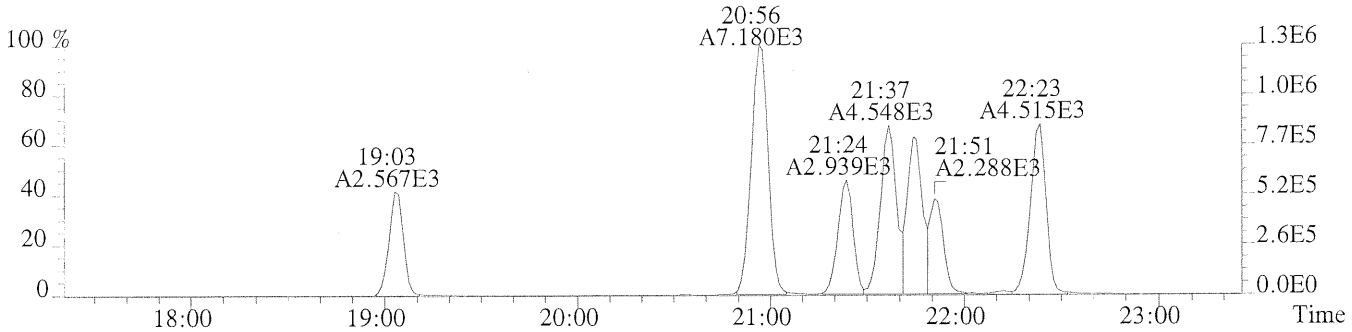


File:U142187 #1-336 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

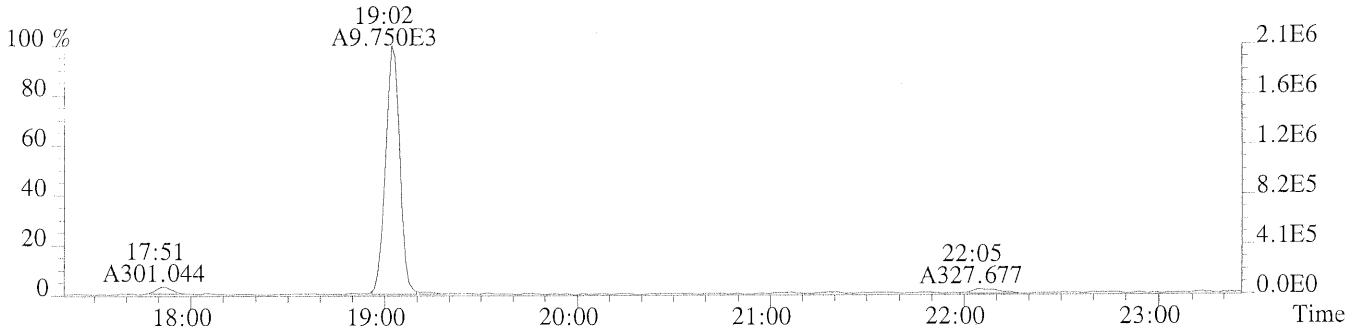
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1684.0,1.00%,F,T)



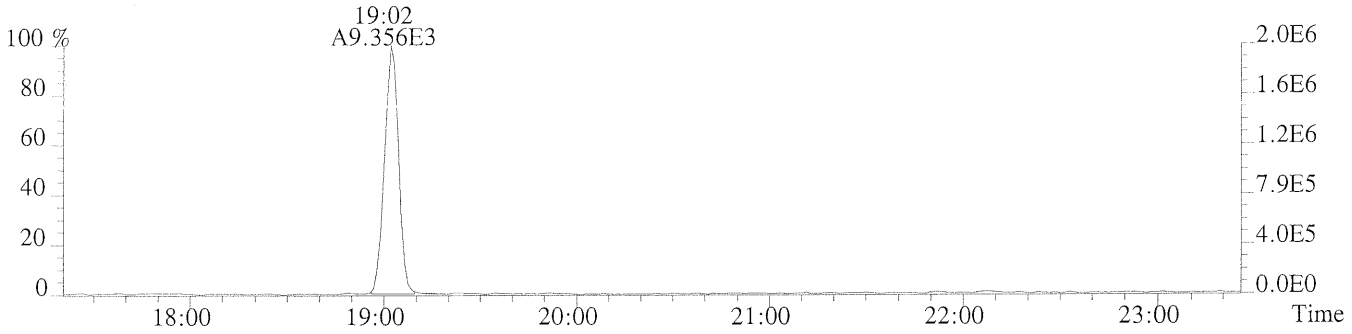
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,784.0,1.00%,F,T)



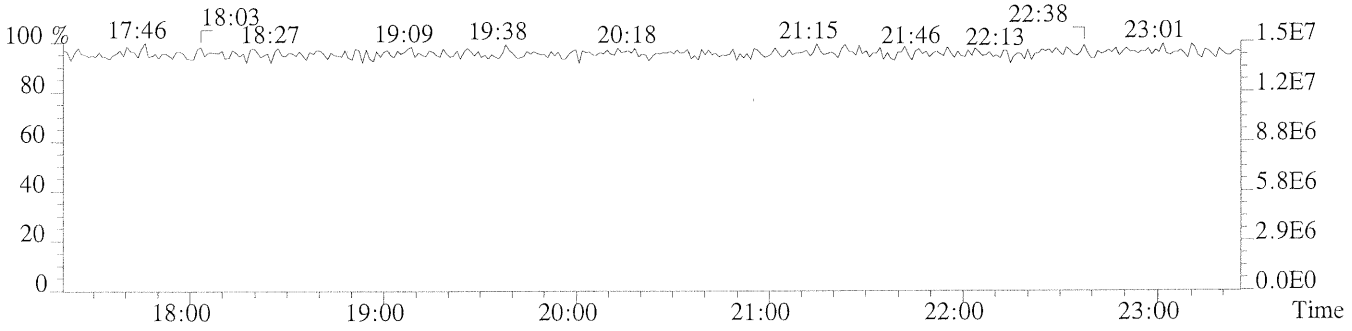
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14640.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12000.0,1.00%,F,T)

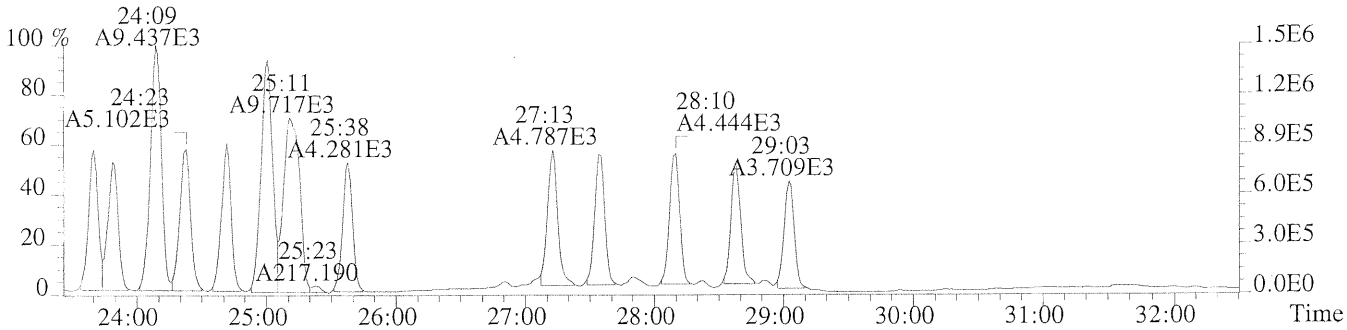


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

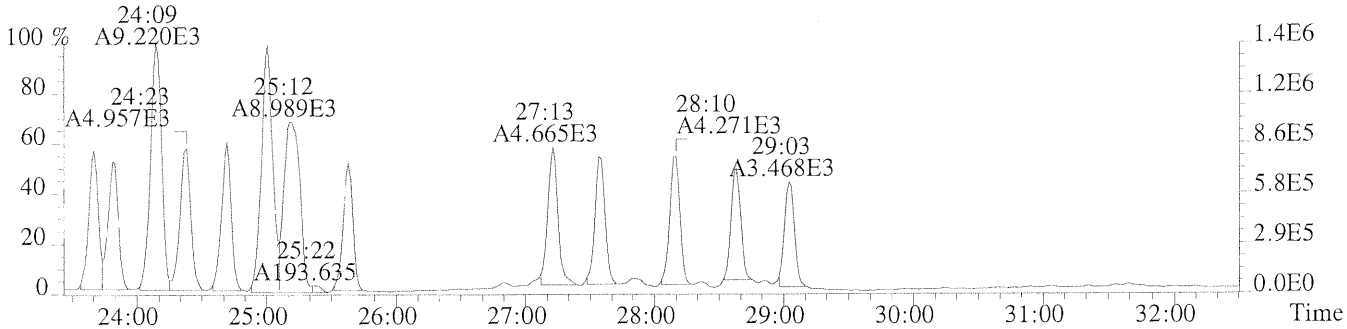


File:U142187 #1-580 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

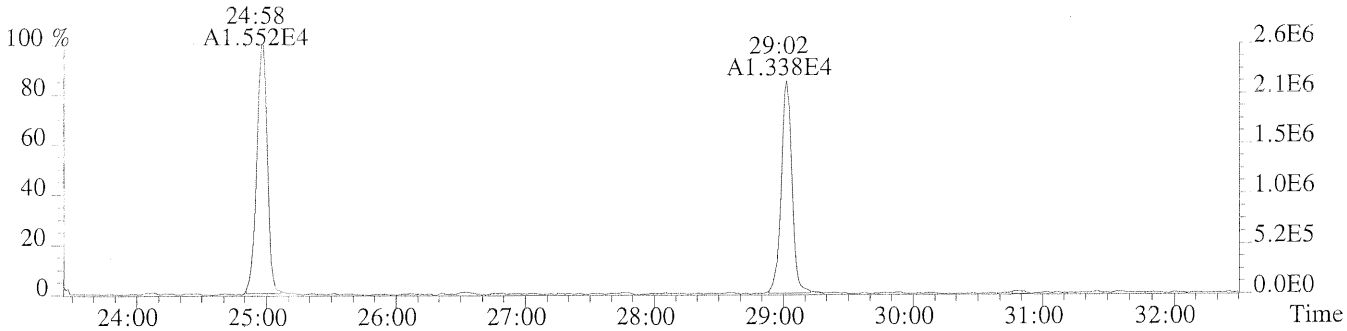
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,43196.0,1.00%,F,T)



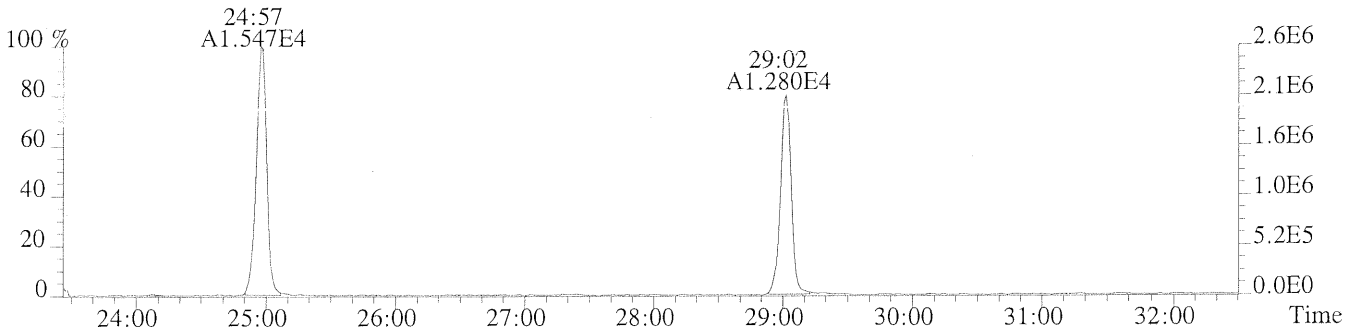
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,43532.0,1.00%,F,T)



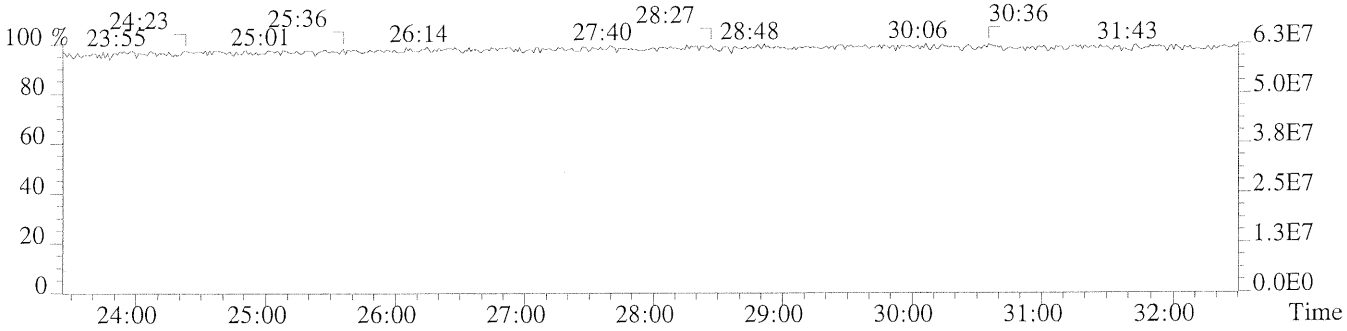
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14400.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11620.0,1.00%,F,T)

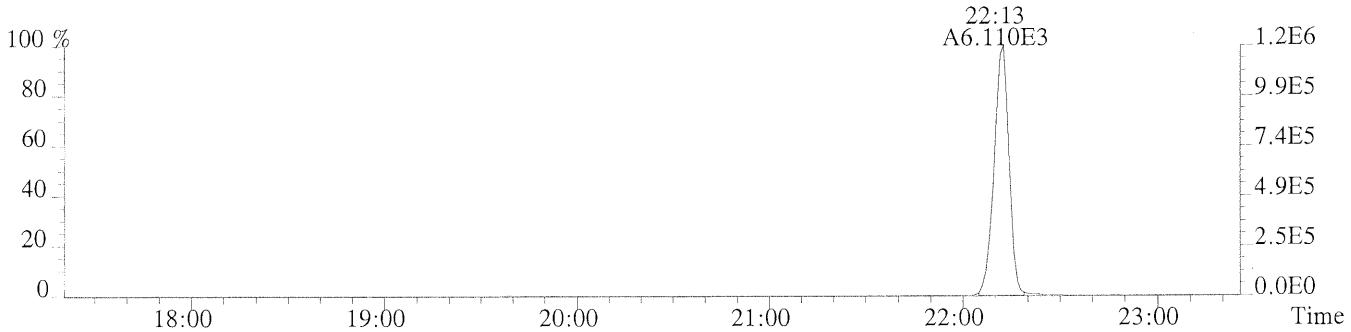


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

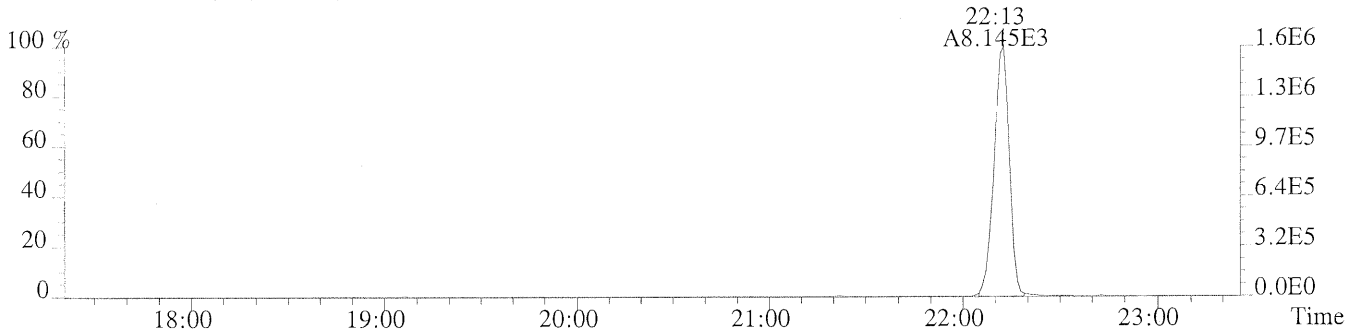


File:U142187 #1-336 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

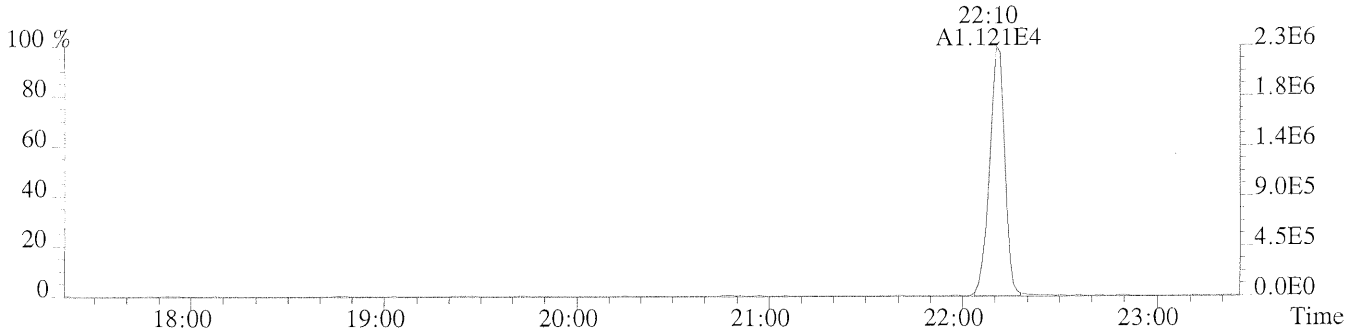
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)



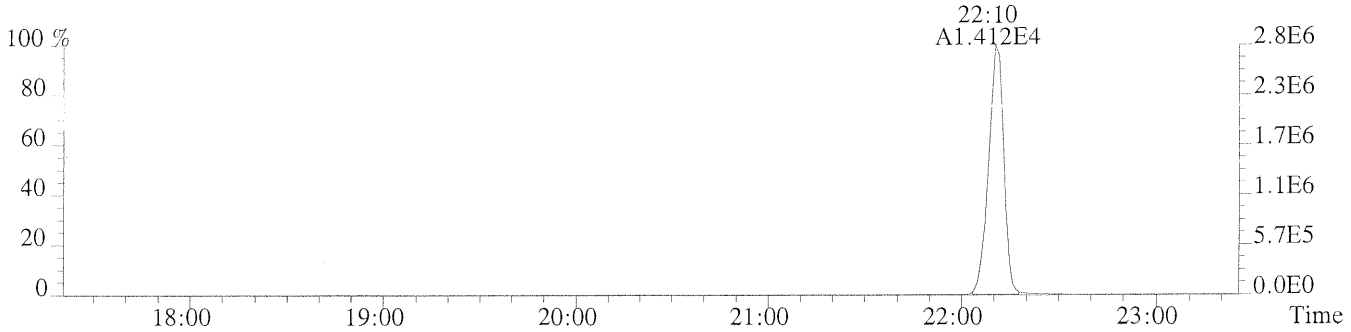
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,980.0,1.00%,F,T)



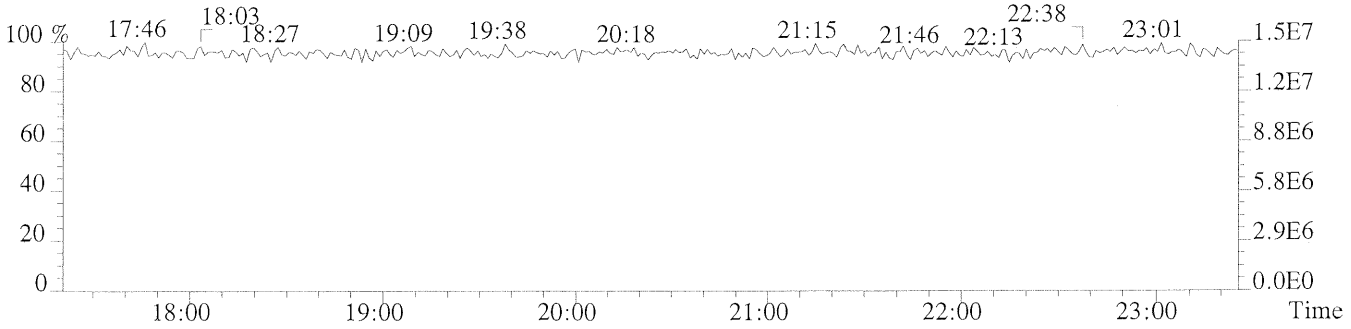
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2792.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1384.0,1.00%,F,T)

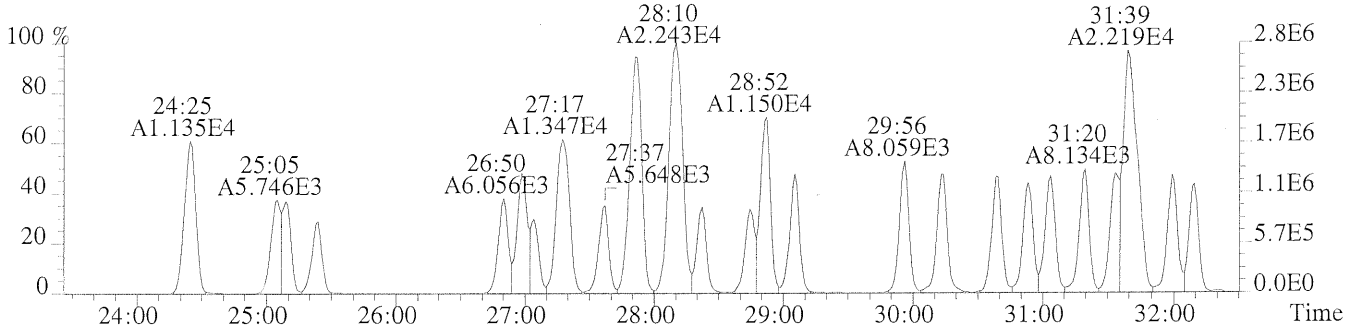


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

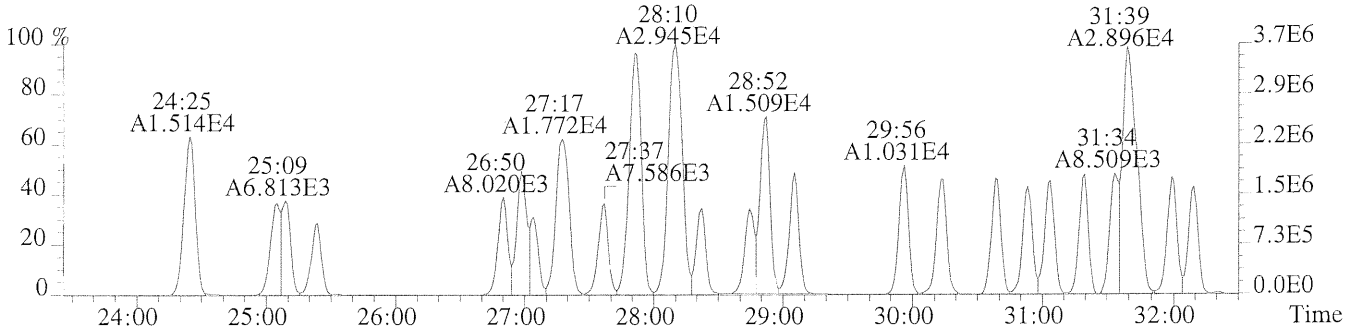


File:U142187 #1-580 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

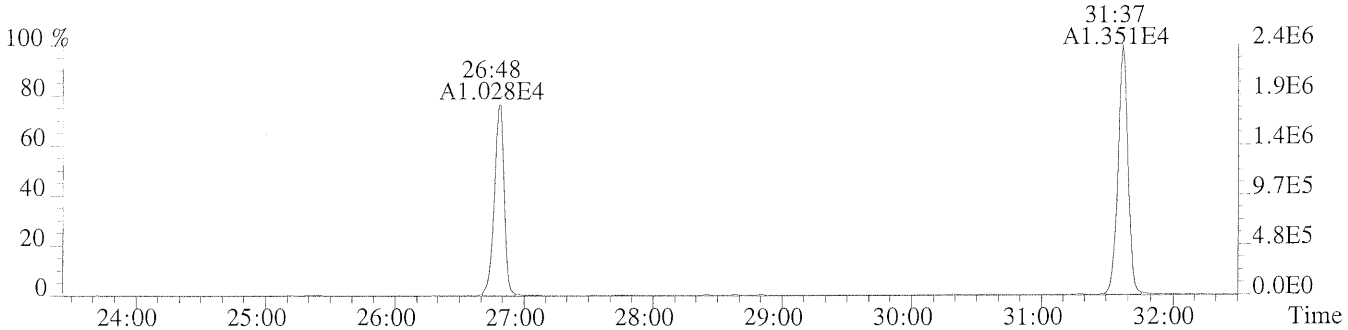
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1664.0,1.00%,F,T)



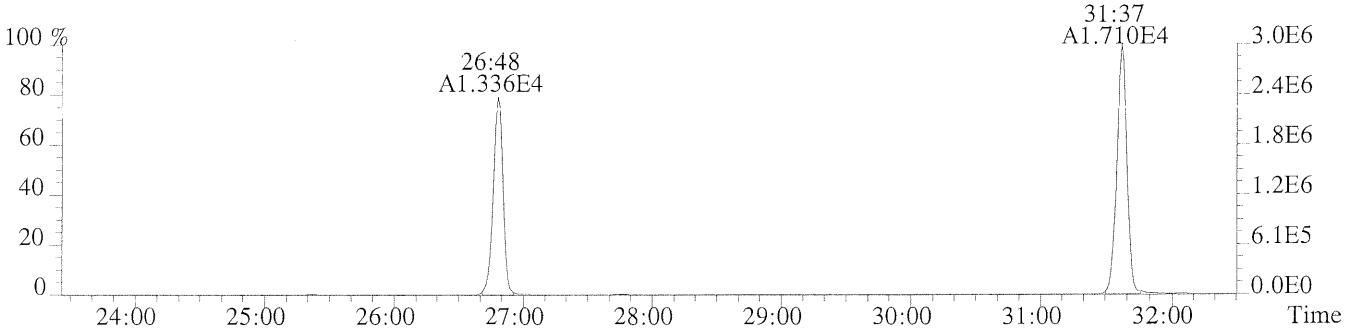
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1116.0,1.00%,F,T)



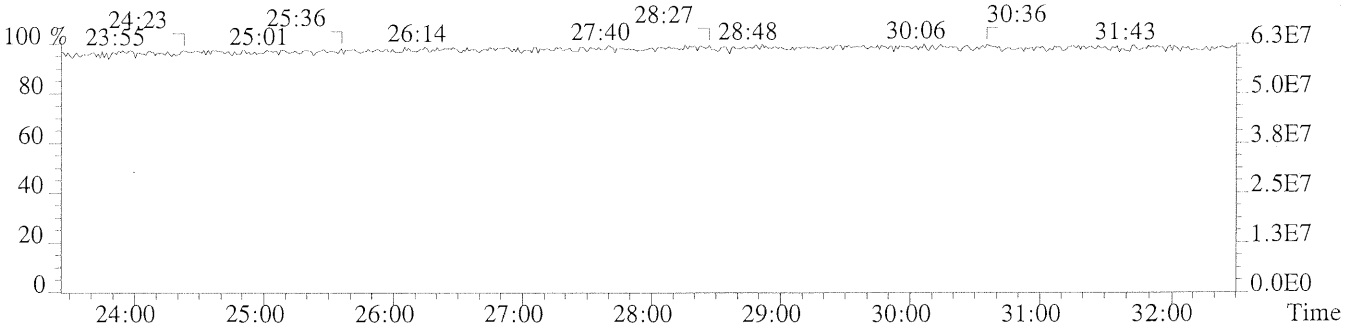
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2420.0,1.00%,F,T)



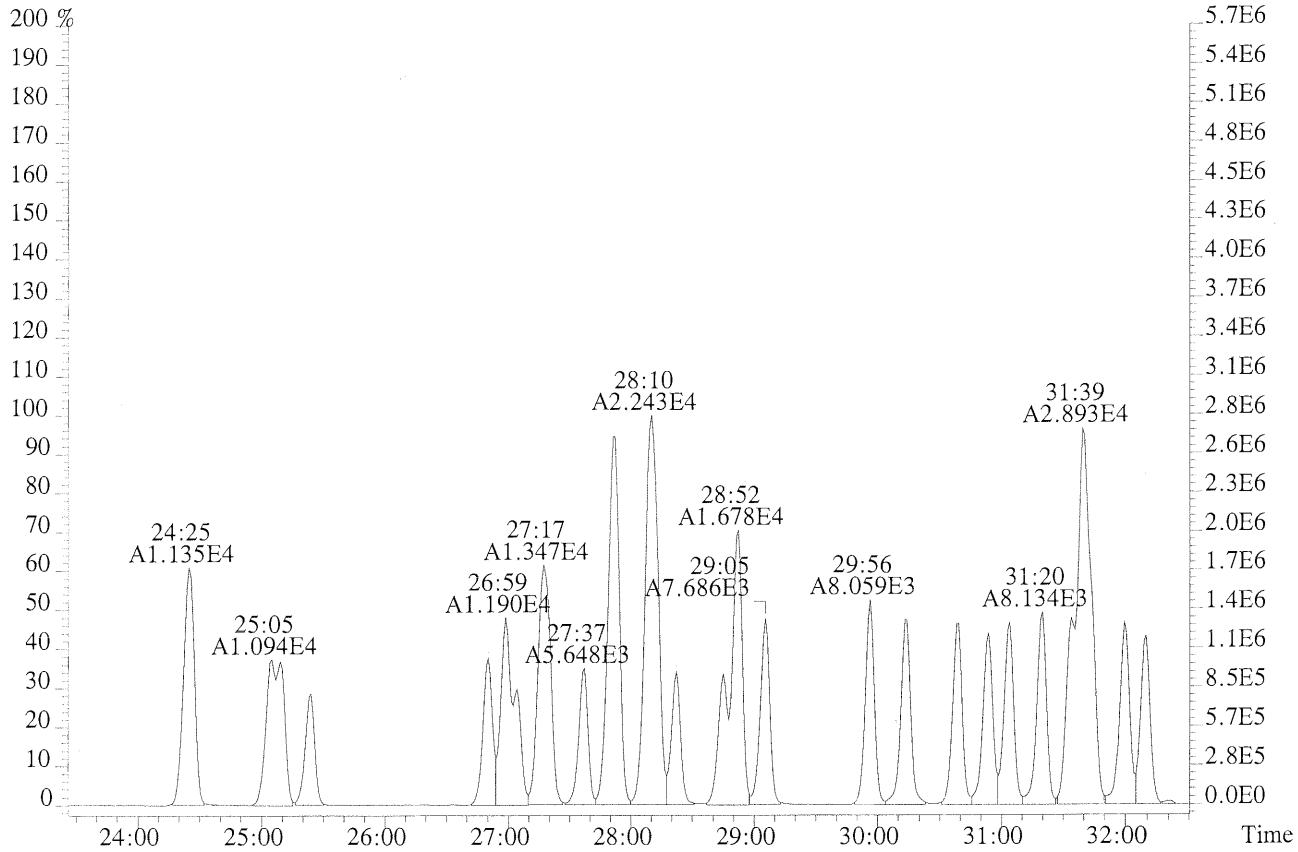
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1348.0,1.00%,F,T)



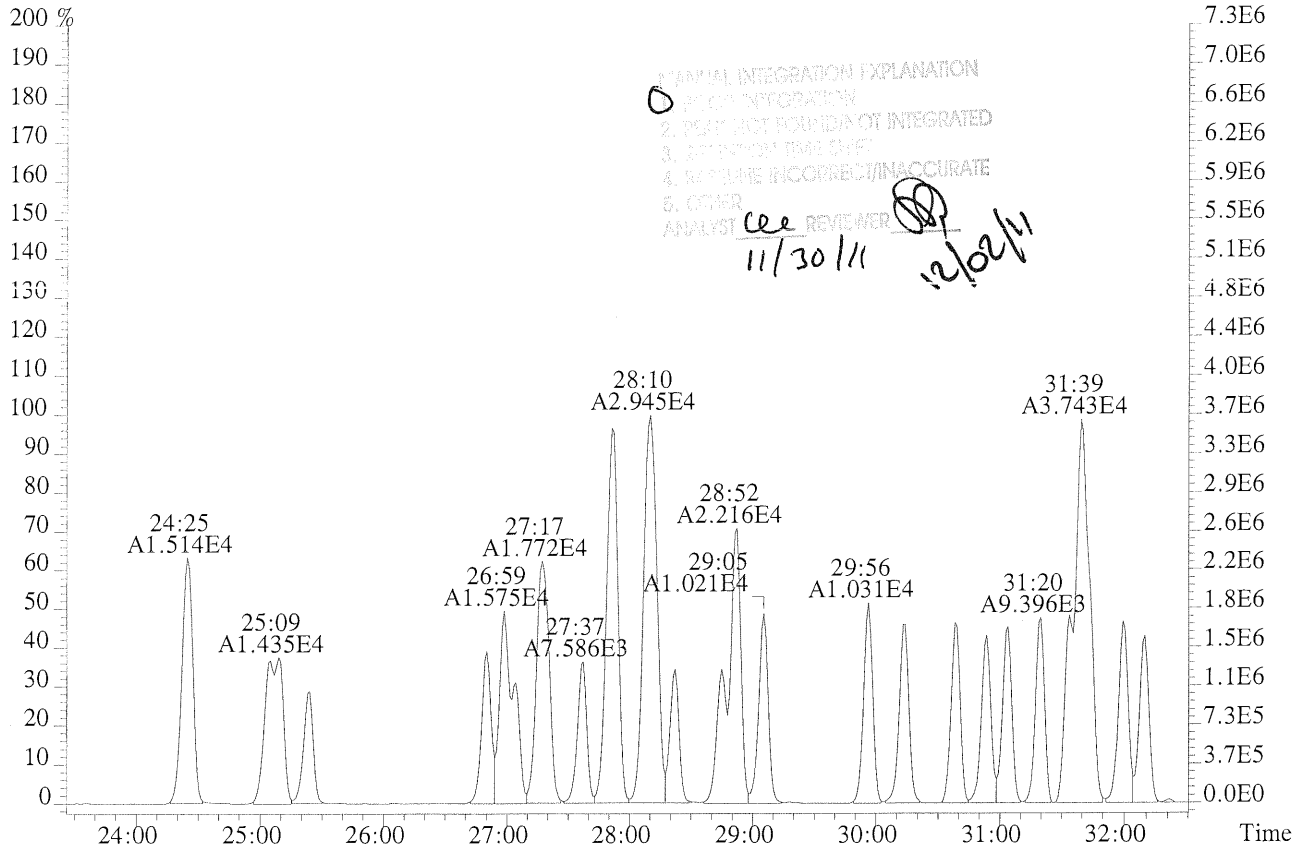
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142187 #1-580 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1664.0,1.00%,F,T)



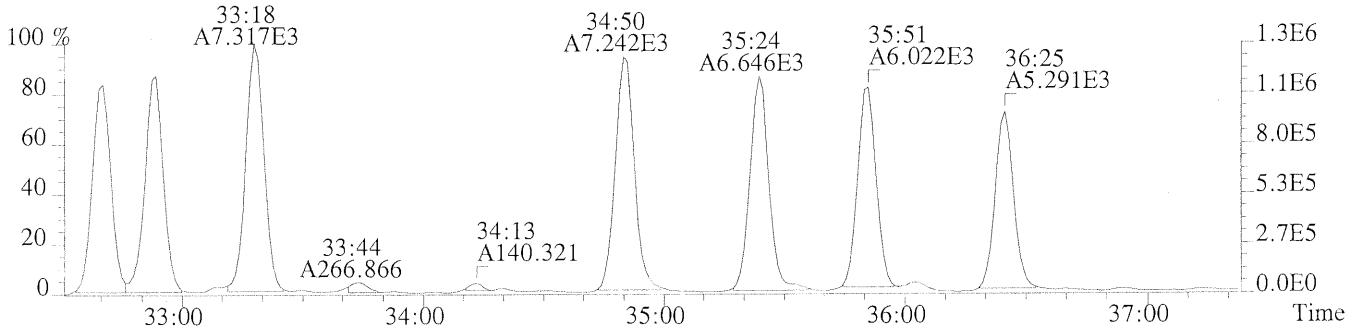
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1116.0,1.00%,F,T)



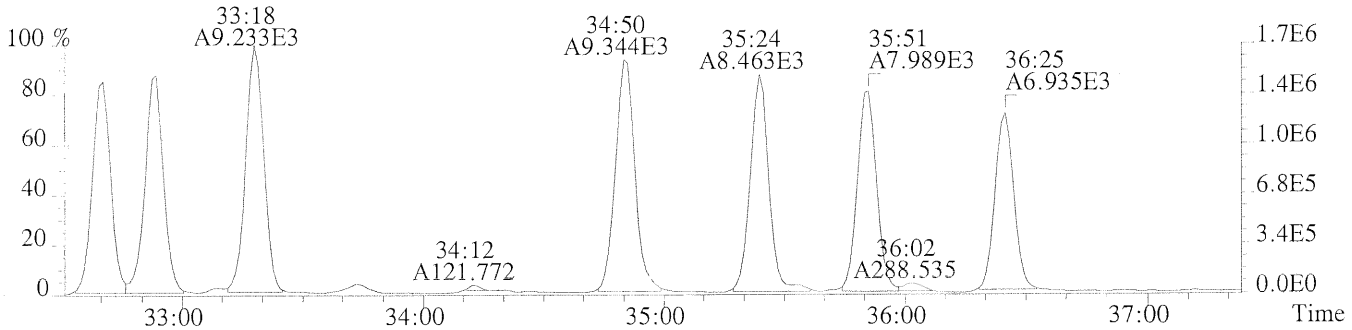
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. RESPONSE INCORRECT/INACCURATE
5. OTHER
ANALYST cee 11/30/11 REVIEWER 12/02/11

File:U142187 #1-312 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

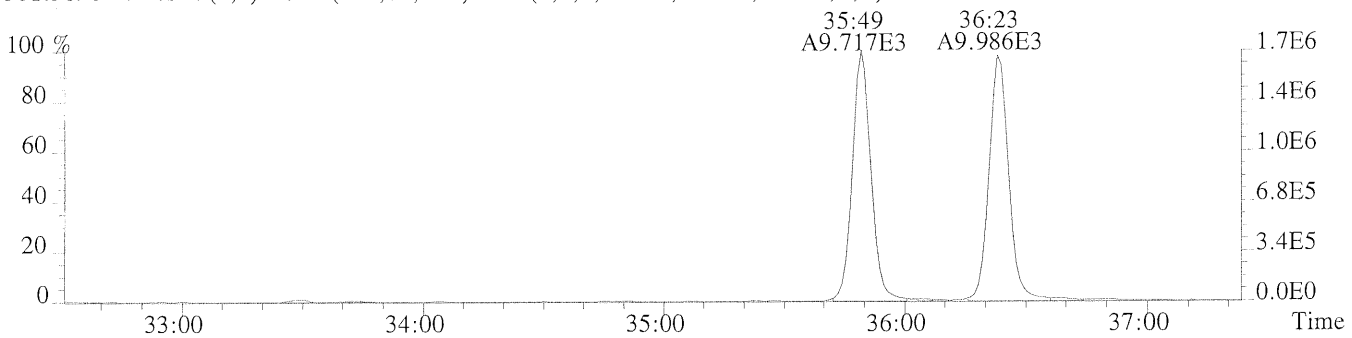
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18568.0,1.00%,F,T)



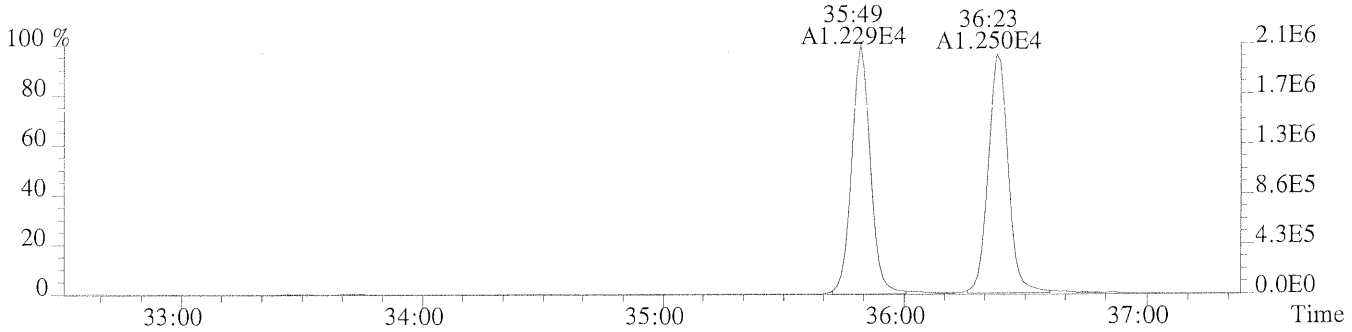
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,21664.0,1.00%,F,T)



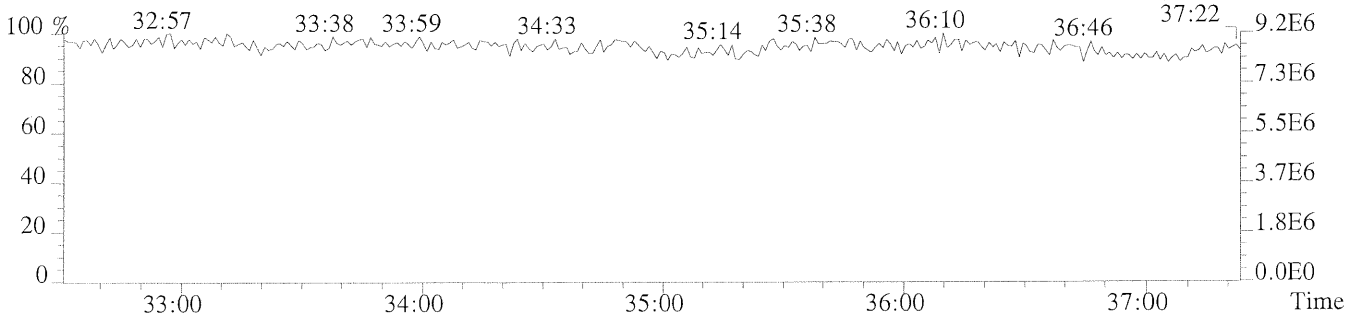
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2028.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1328.0,1.00%,F,T)

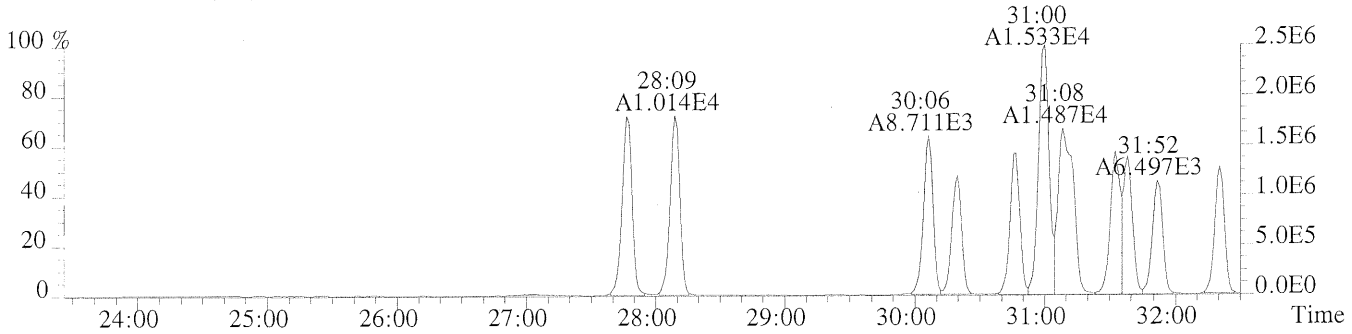


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

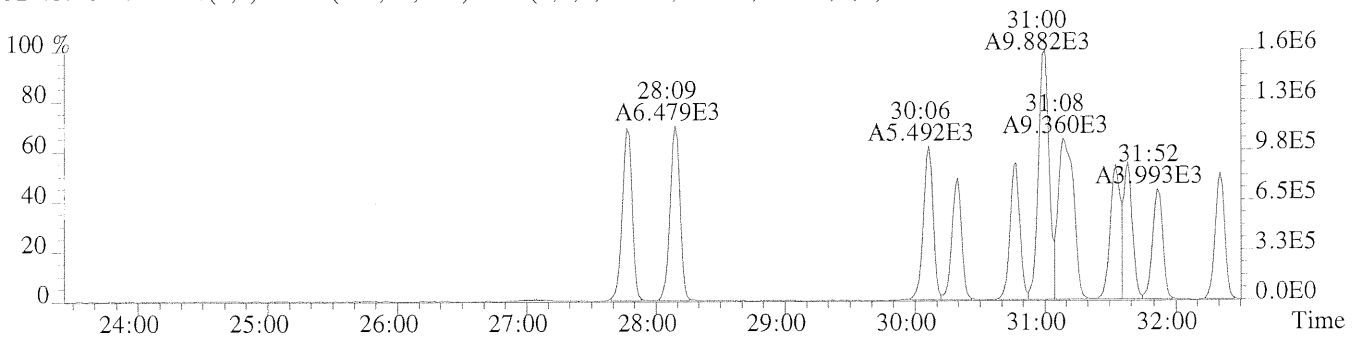


File:U142187 #1-580 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

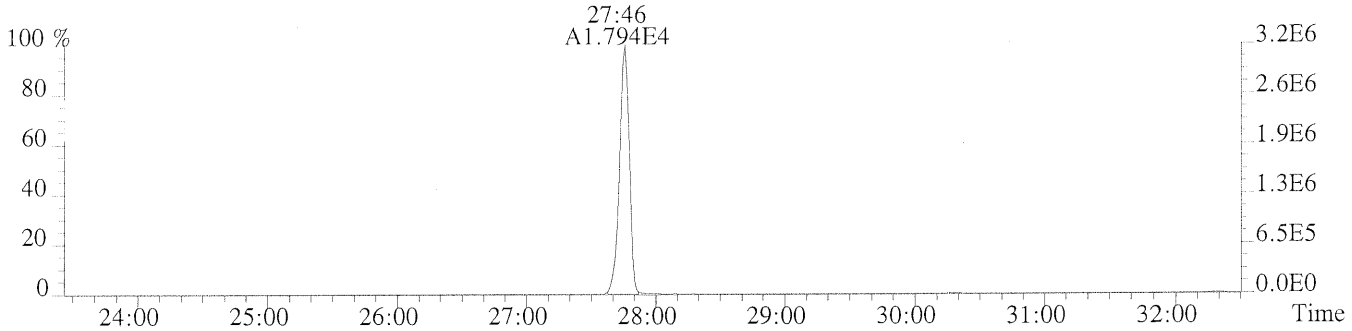
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4500.0,1.00%,F,T)



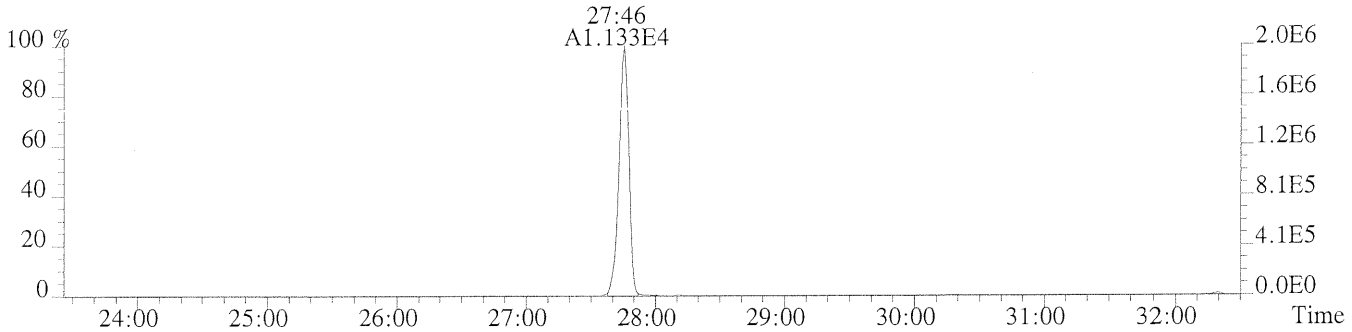
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2804.0,1.00%,F,T)



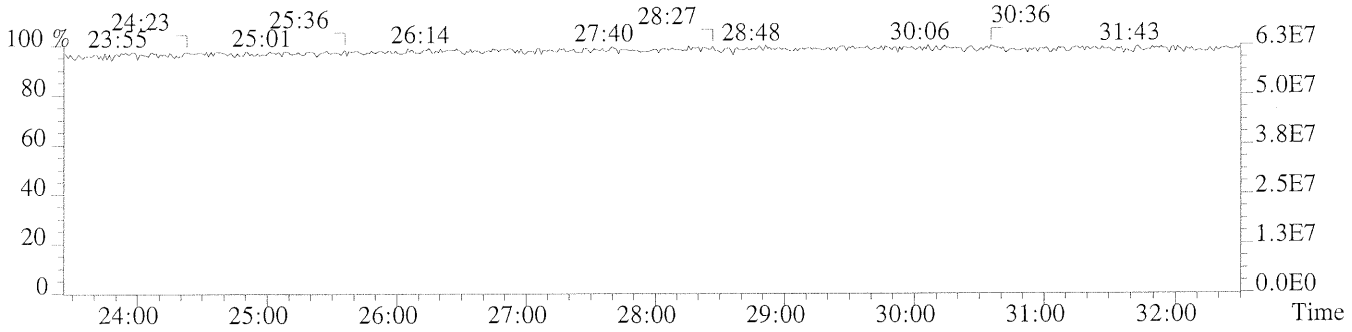
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1300.0,1.00%,F,T)



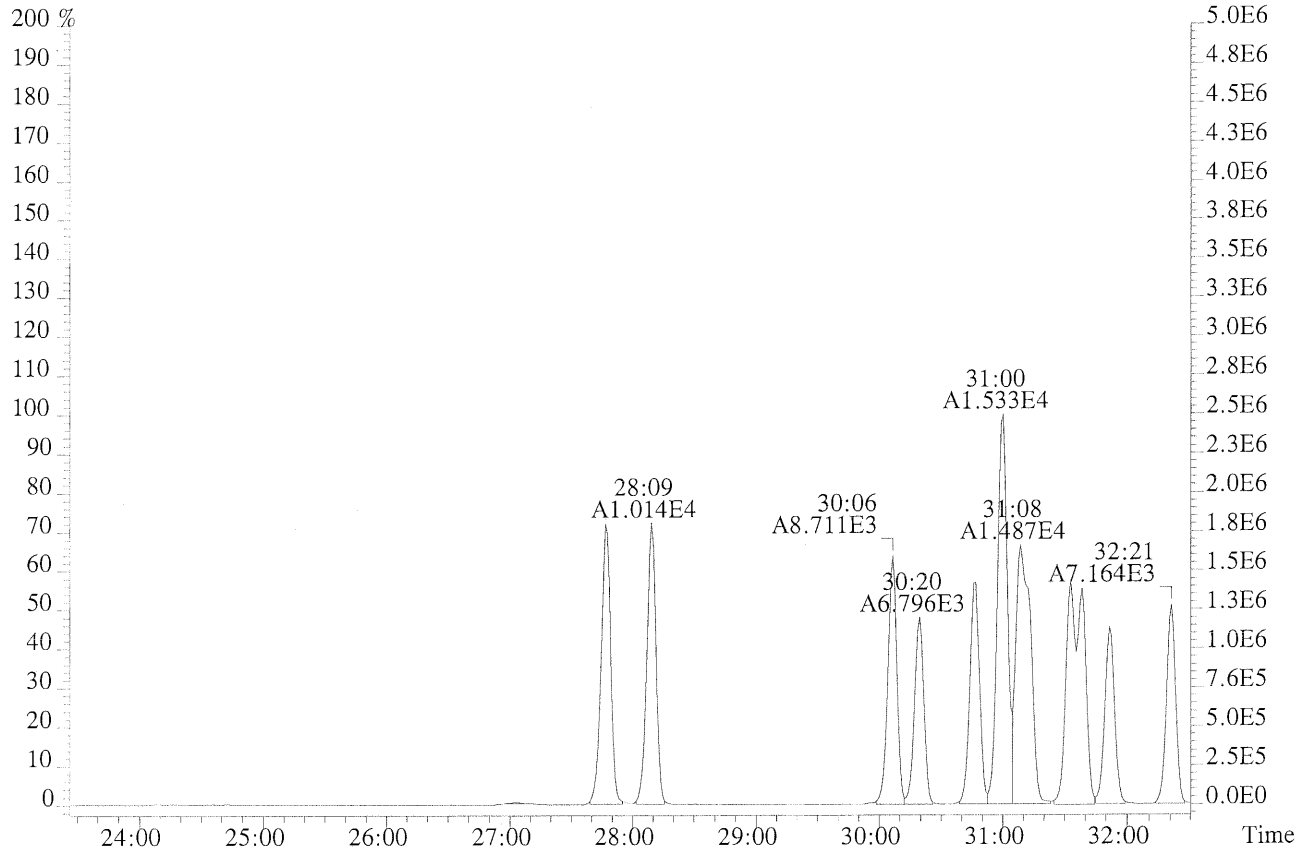
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,916.0,1.00%,F,T)



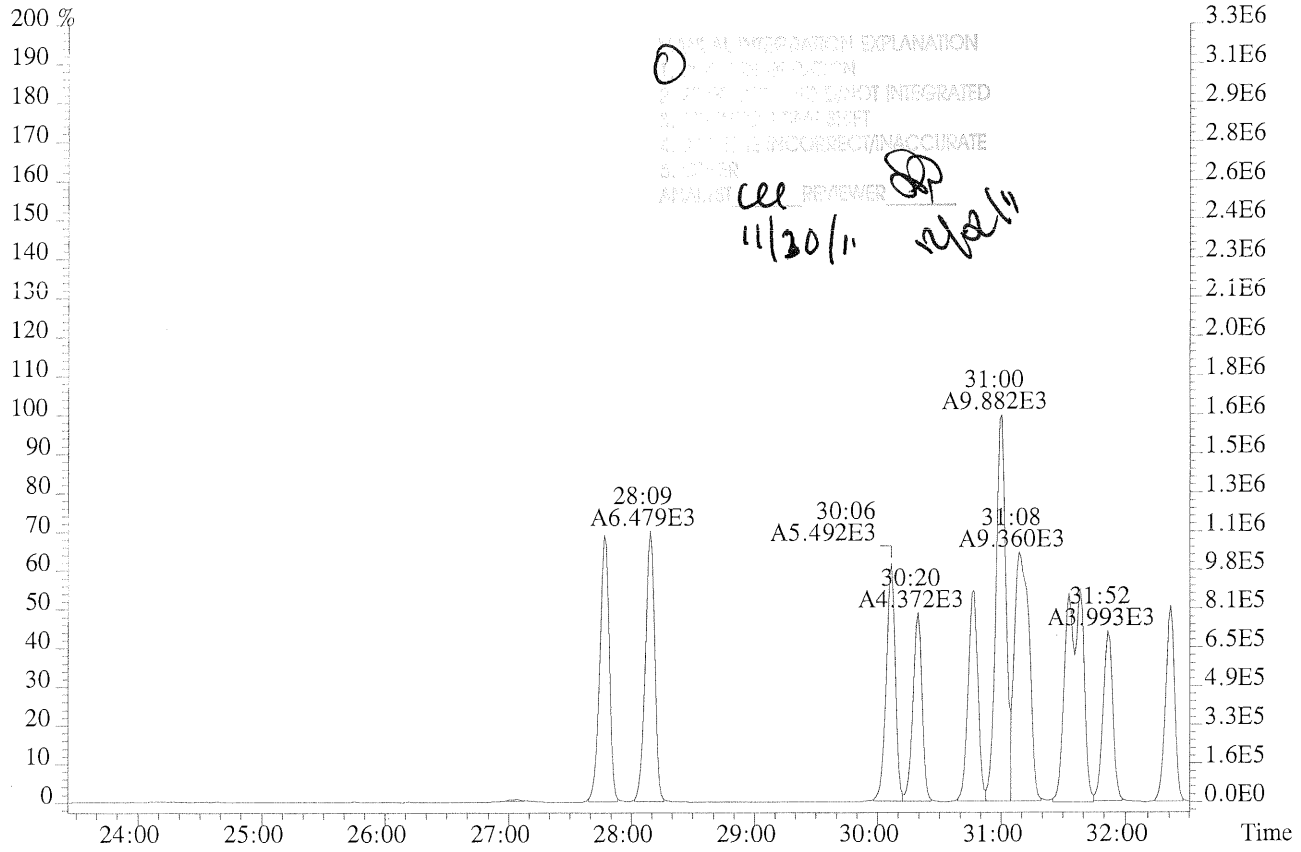
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142187 #1-580 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4500.0,1.00%,F,T)



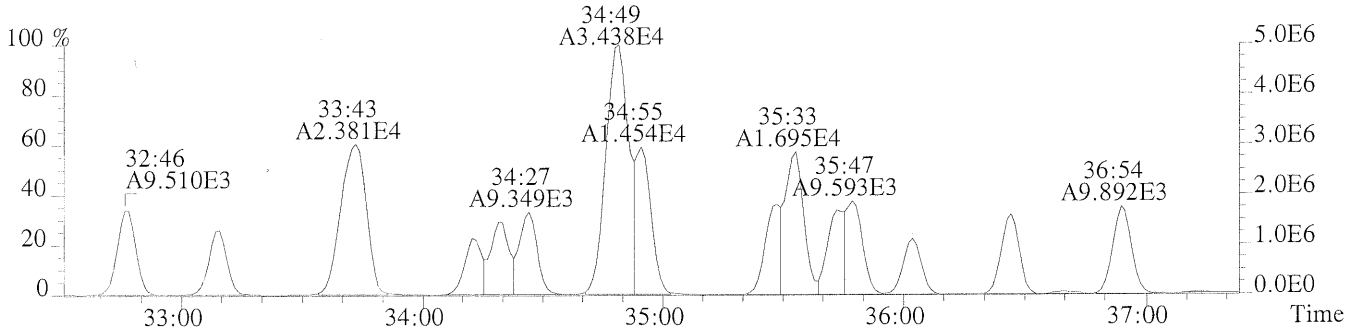
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2804.0,1.00%,F,T)



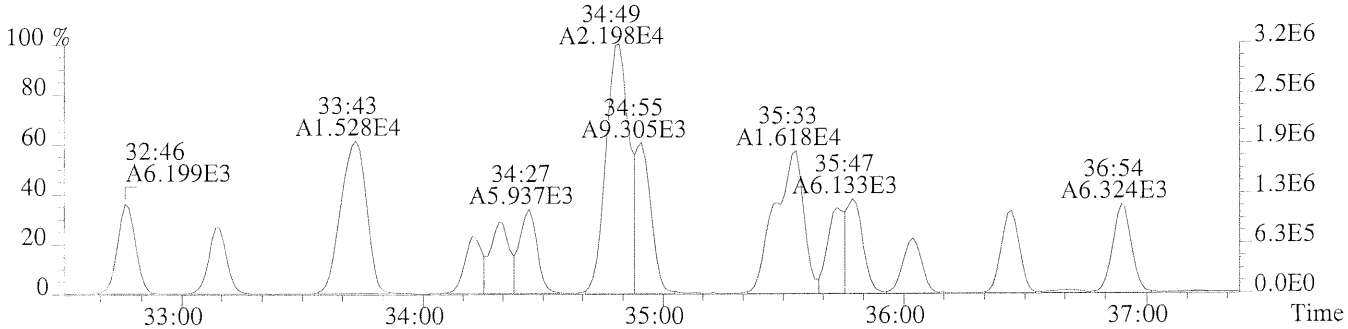
MANUAL INTEGRATION EXPLANATION
INTEGRATION
NOT INTEGRATED
SHIFT
INCORRECT/INACCURATE
OTHER
ANALYST REVIEWER
CEE 11/30/11 12/2/11

File:U142187 #1-312 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

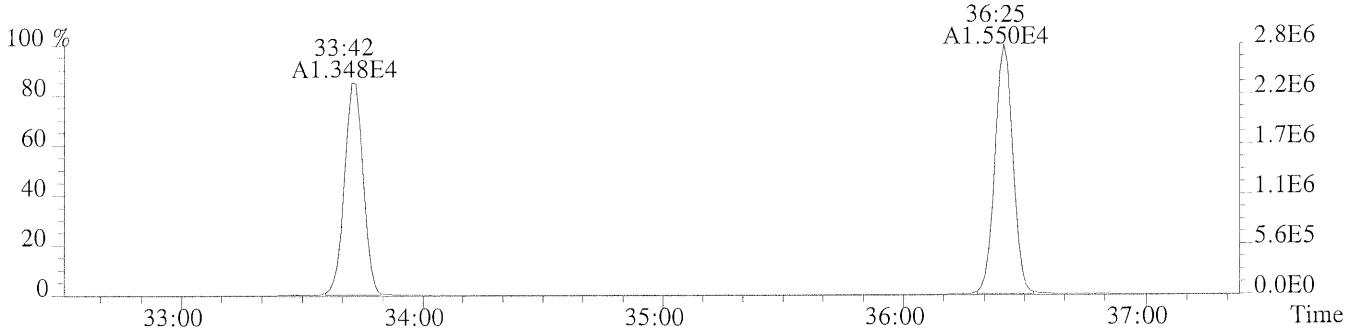
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11060.0,1.00%,F,T)



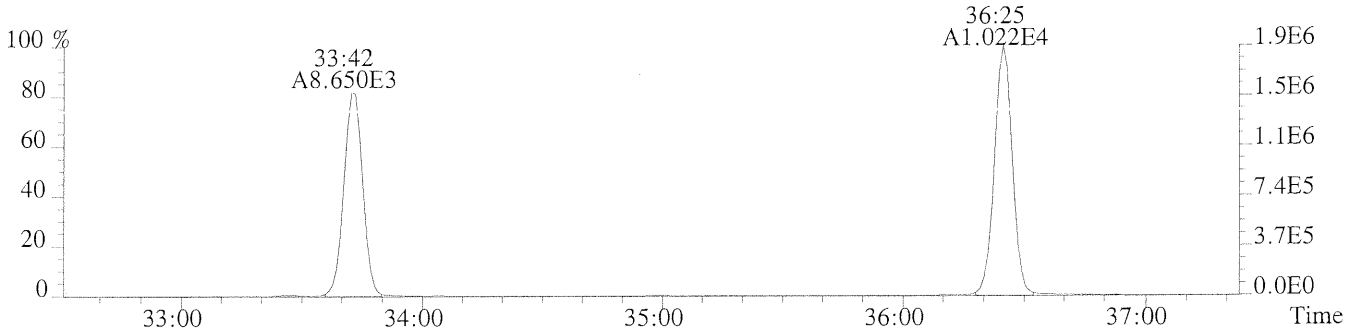
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8212.0,1.00%,F,T)



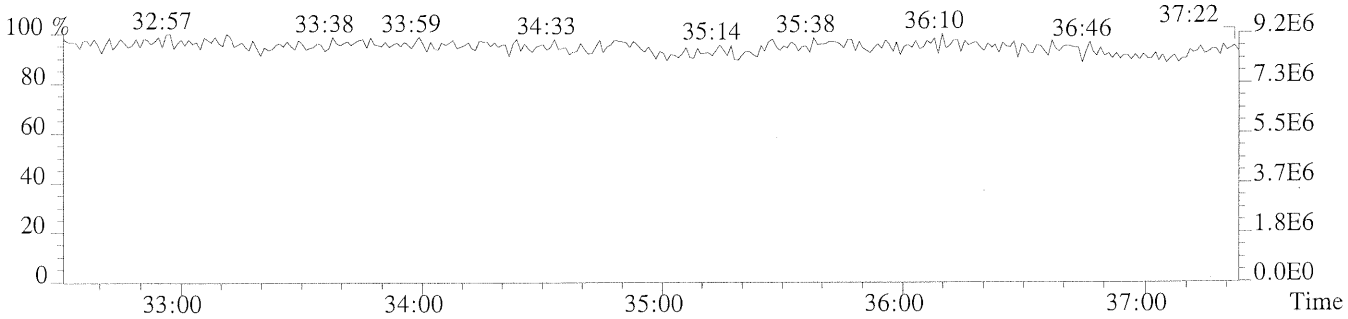
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1648.0,1.00%,F,T)



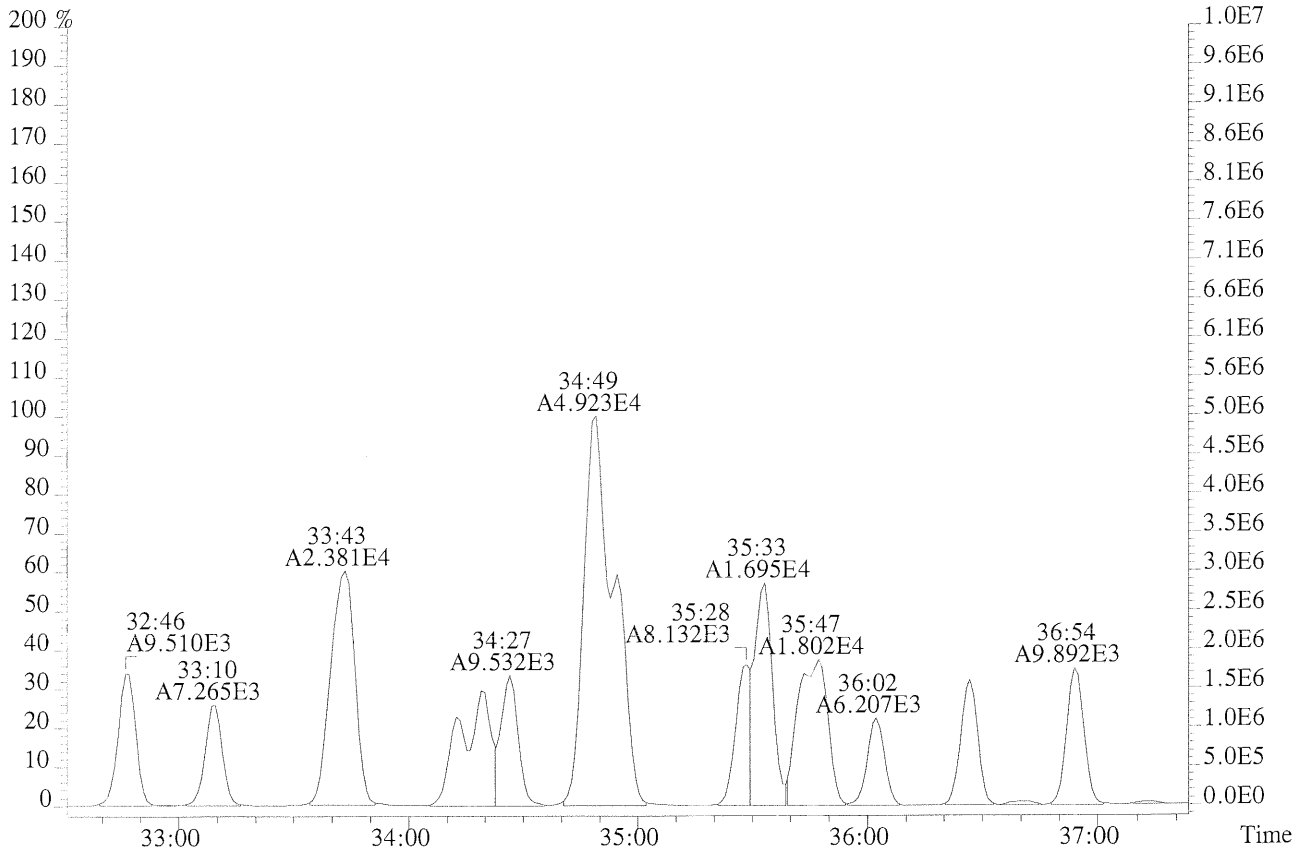
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1196.0,1.00%,F,T)



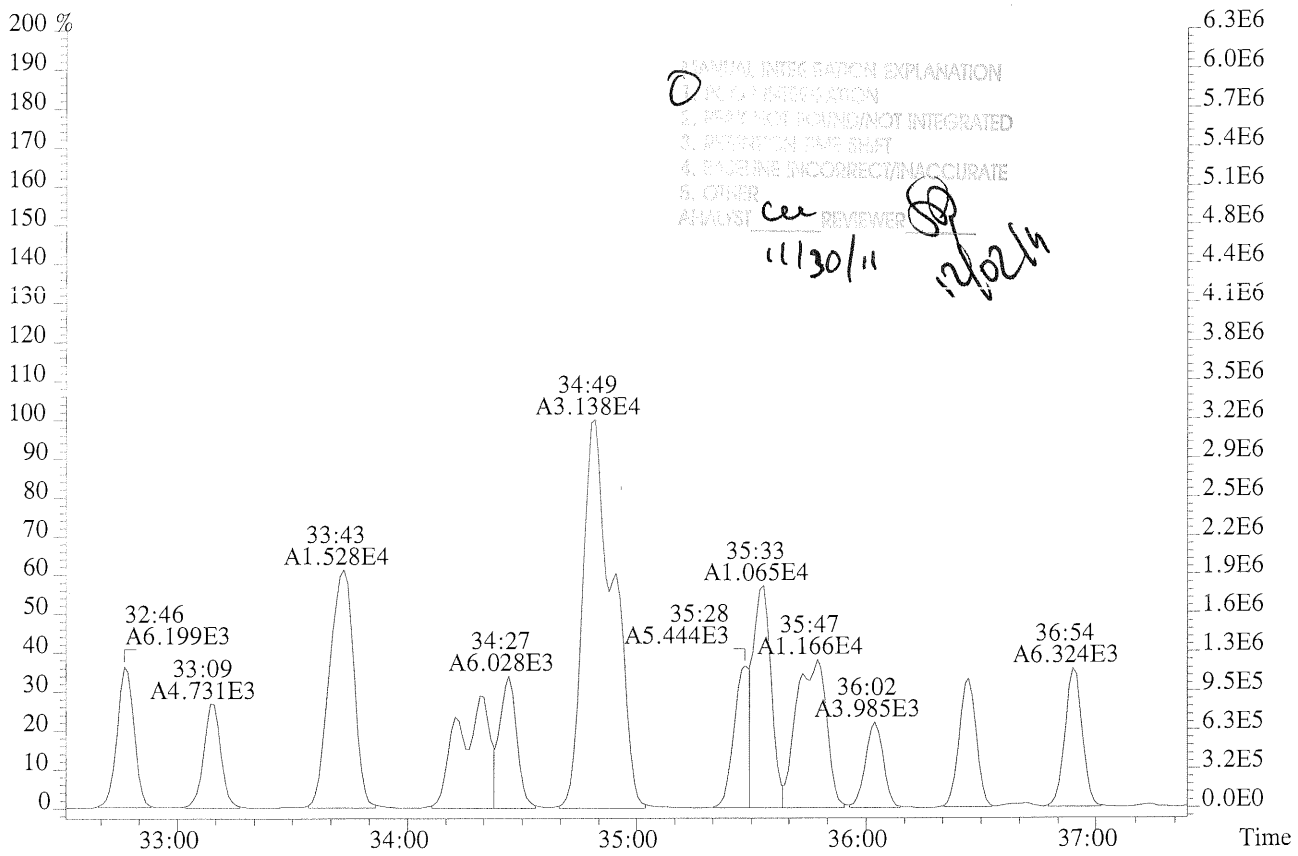
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



File:U142187 #1-312 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11060.0,1.00%,F,T)



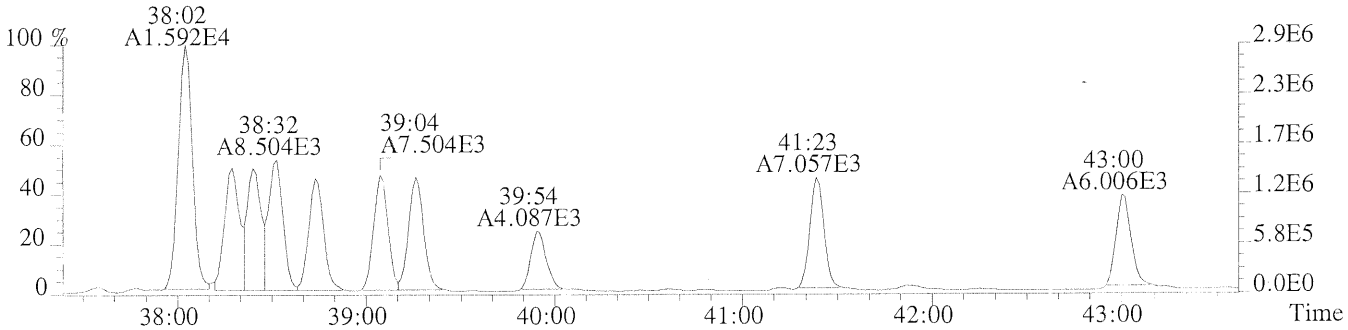
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8212.0,1.00%,F,T)



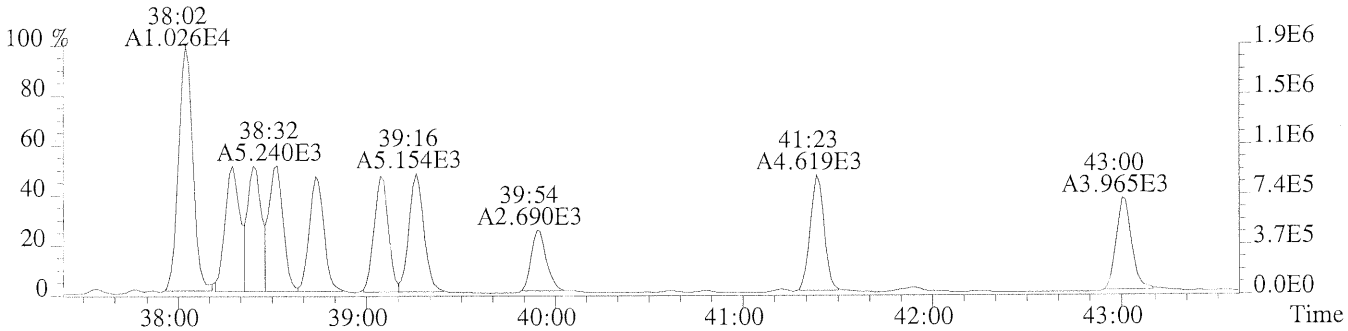
PARTIAL INTEGRATION EXPLANATION
1. PARTIAL INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST cc 11/30/11 REVIEWER 12/02/11

File:U142187 #1-398 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

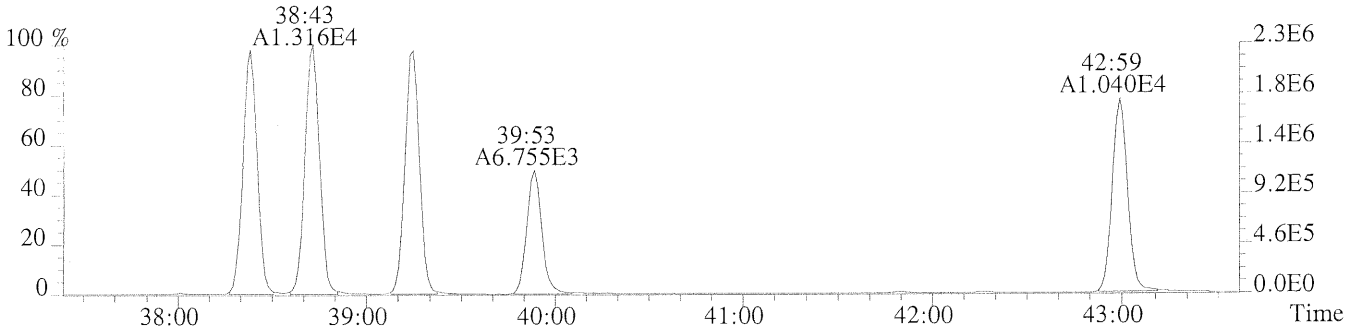
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,62264.0,1.00%,F,T)



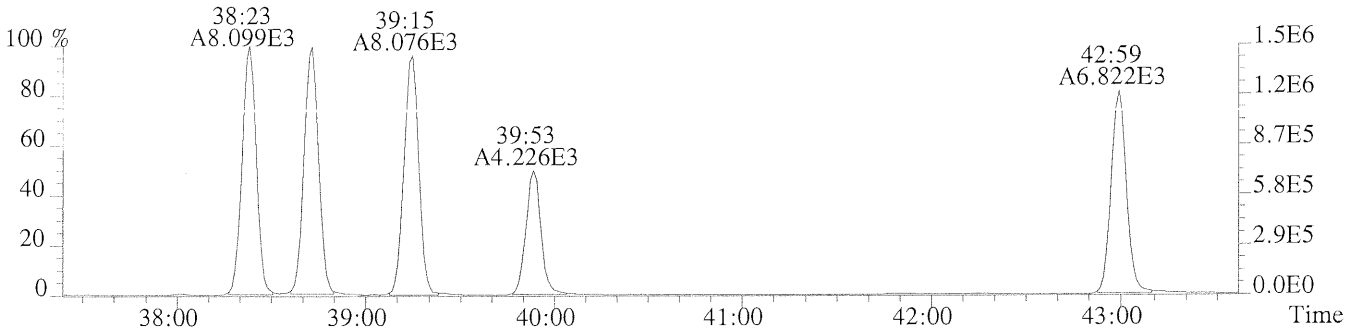
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,34348.0,1.00%,F,T)



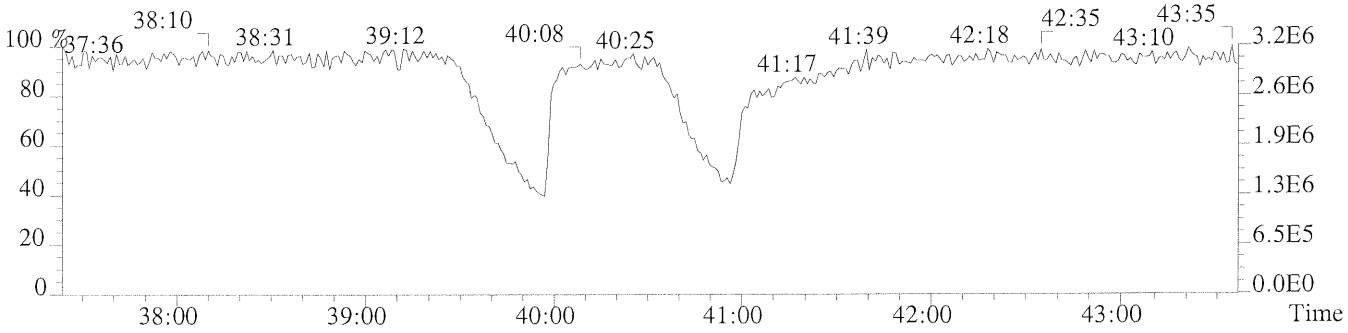
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8136.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6068.0,1.00%,F,T)

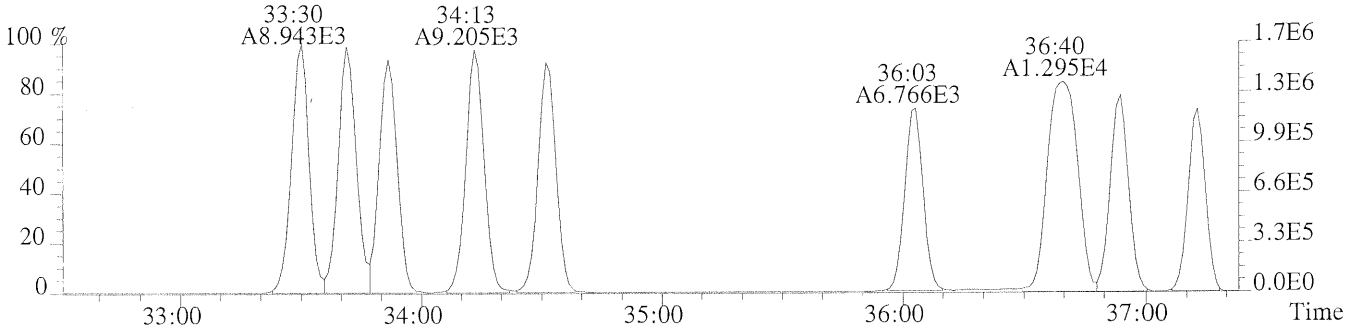


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

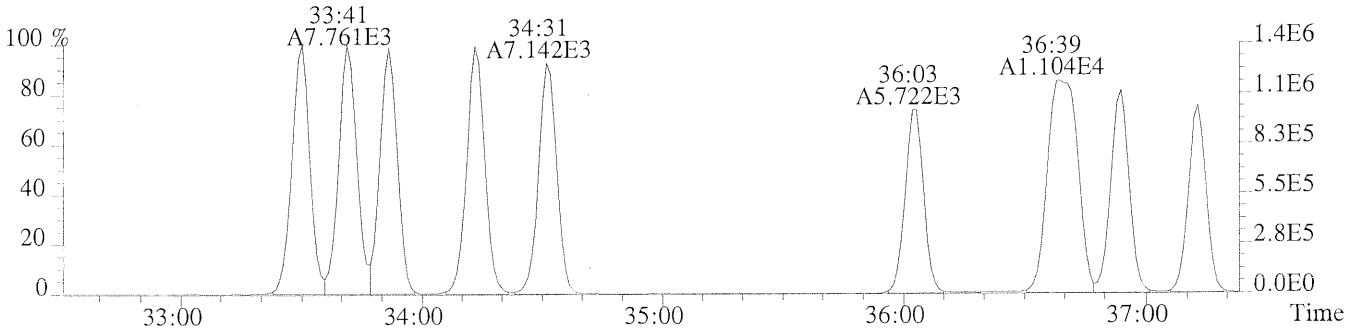


File:U142187 #1-312 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

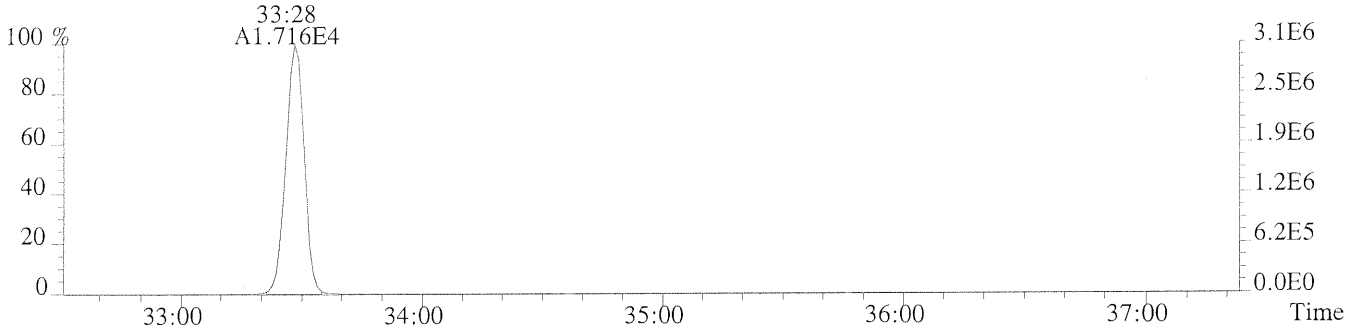
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5272.0,1.00%,F,T)



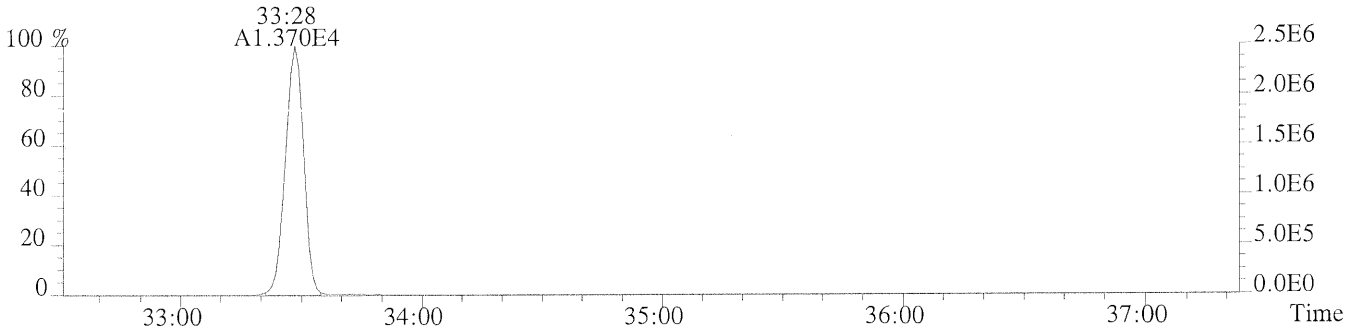
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3196.0,1.00%,F,T)



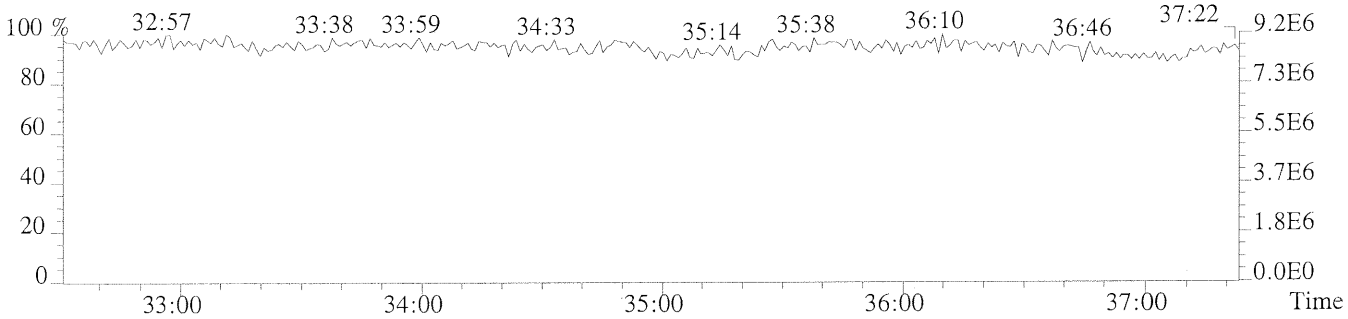
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1540.0,1.00%,F,T)

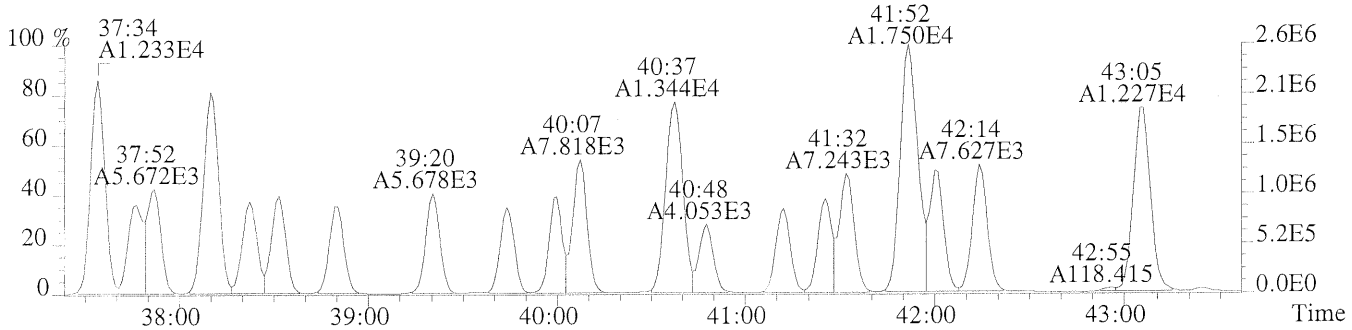


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

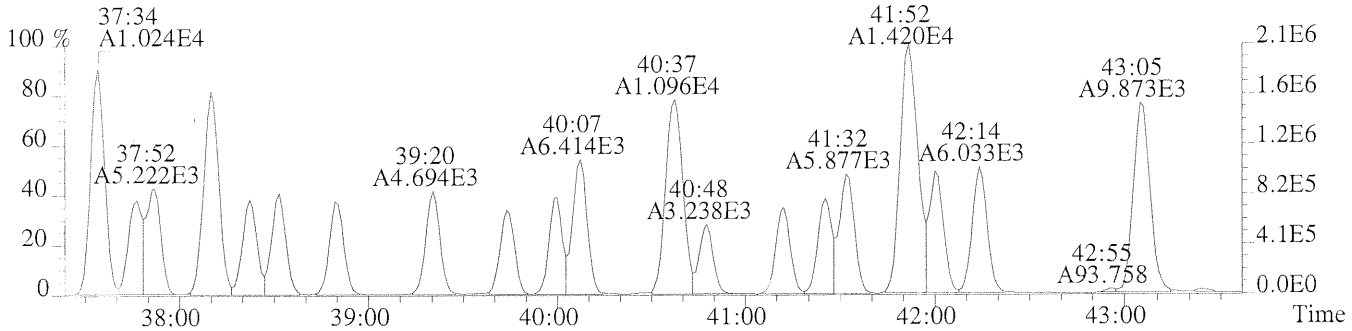


File:U142187 #1-398 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

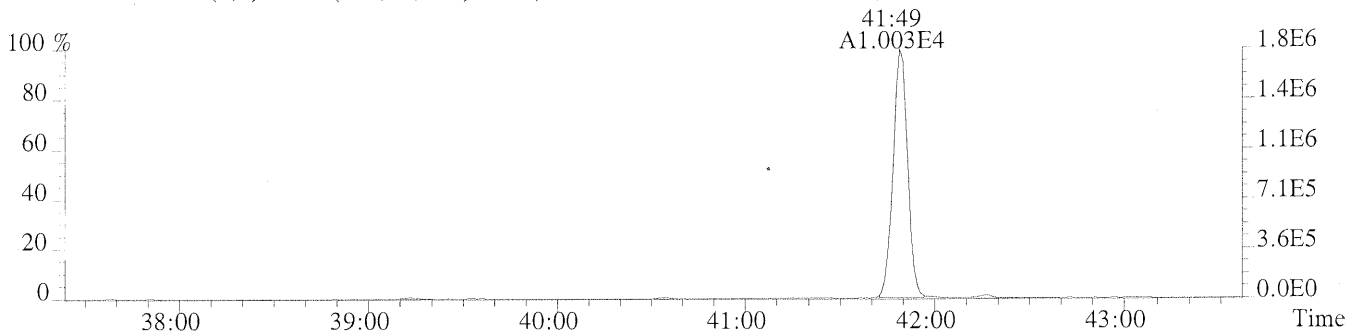
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18328.0,1.00%,F,T)



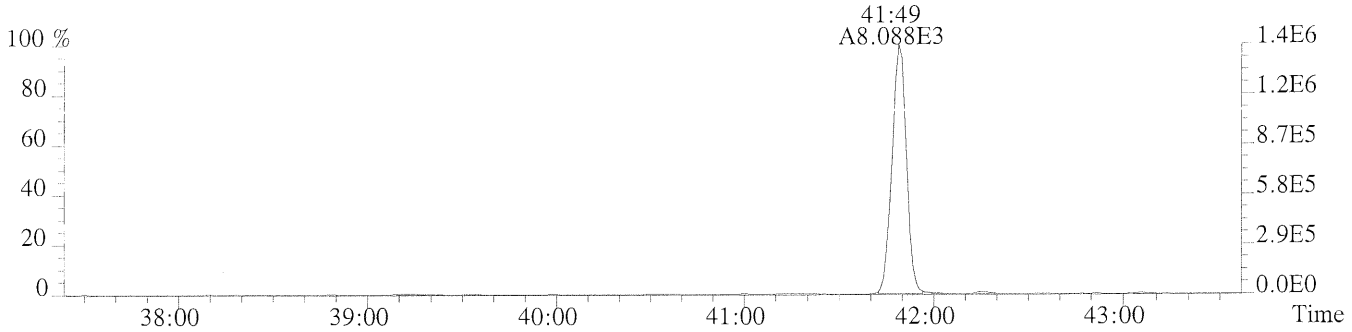
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10308.0,1.00%,F,T)



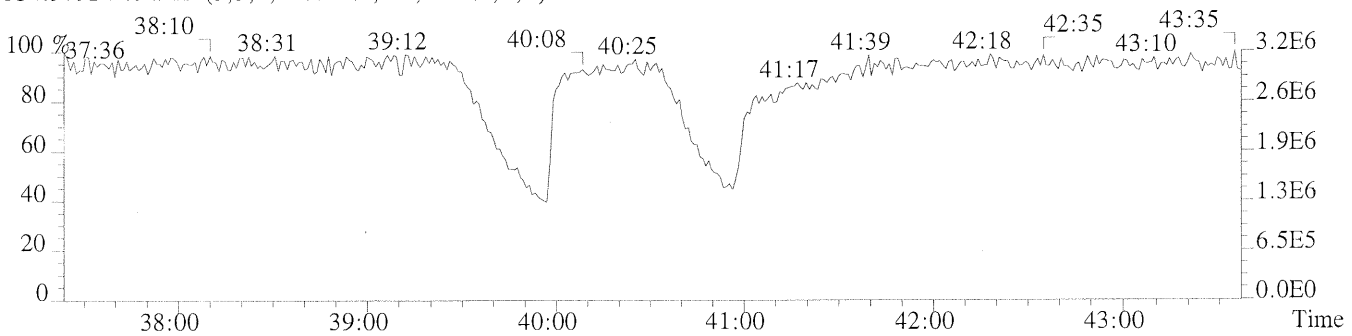
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2256.0,1.00%,F,T)



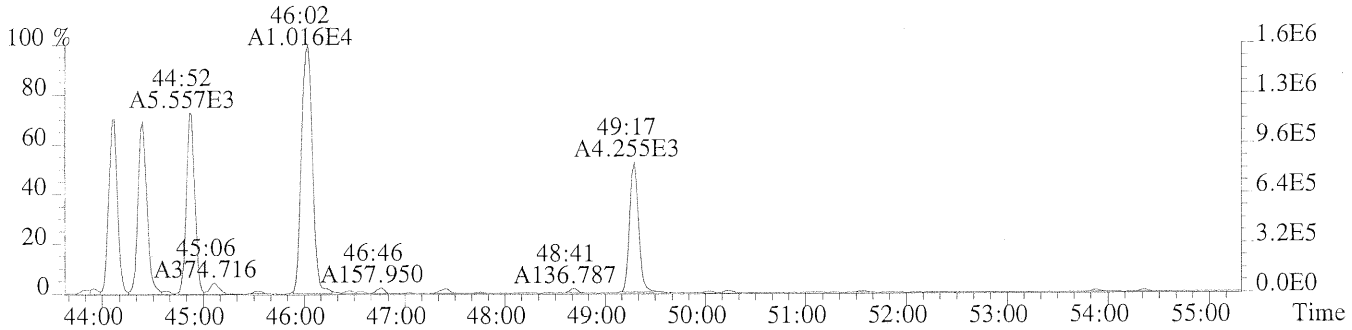
373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1940.0,1.00%,F,T)



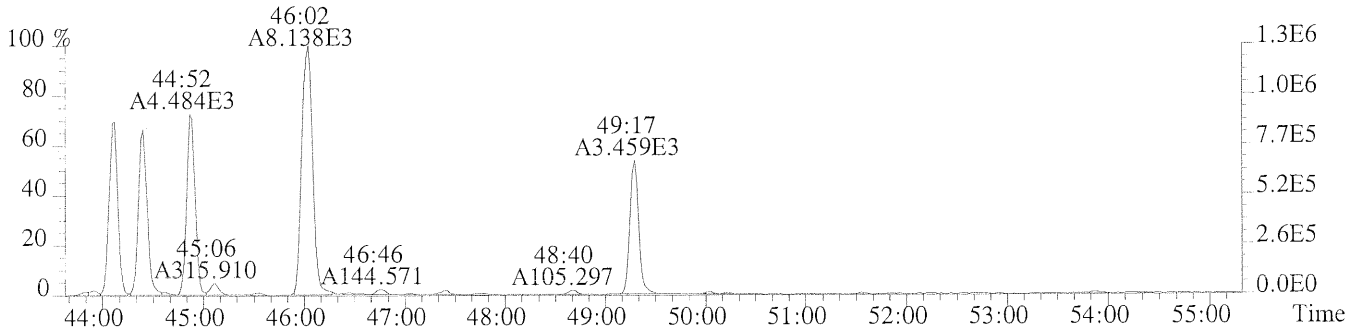
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



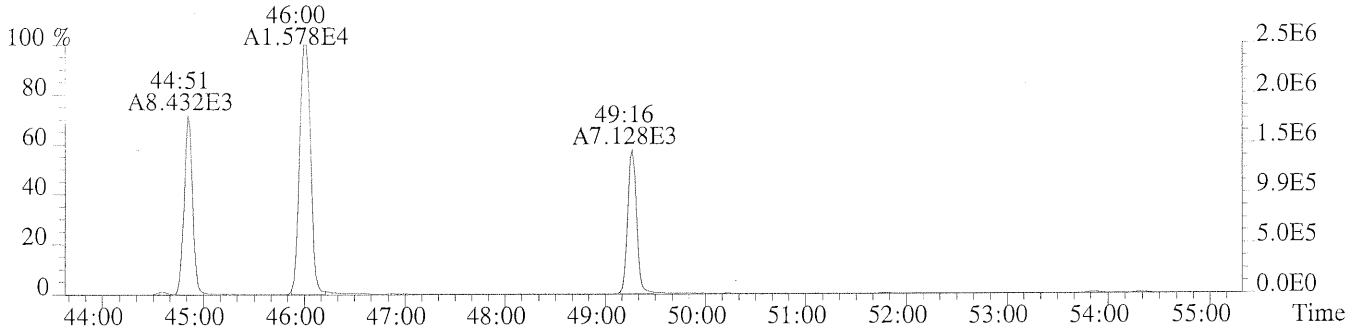
File:U142187 #1-579 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3532.0,1.00%,F,T)



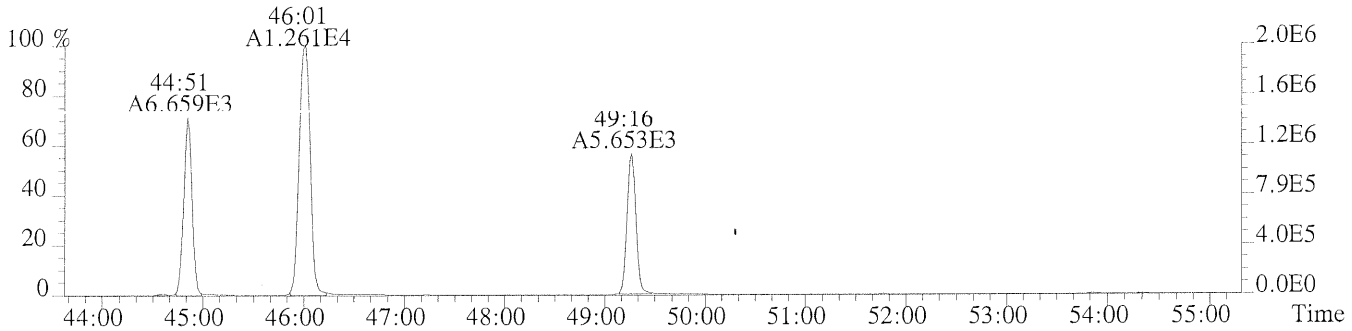
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2464.0,1.00%,F,T)



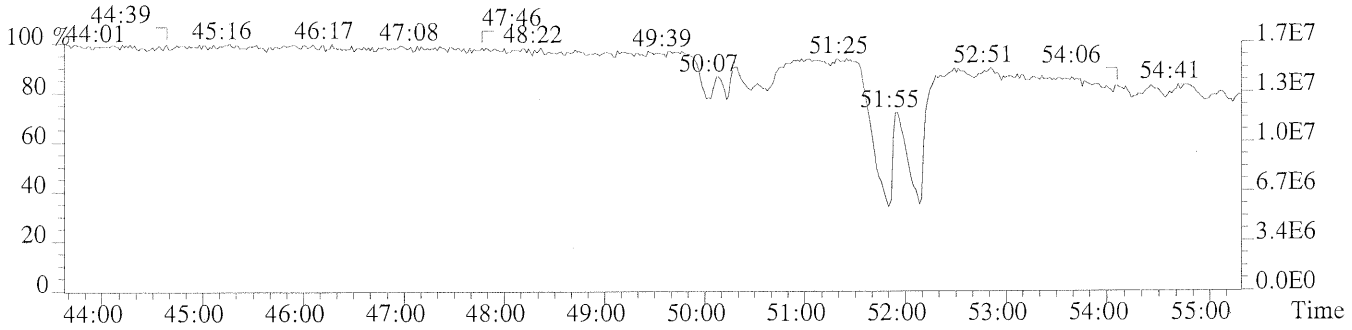
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1520.0,1.00%,F,T)

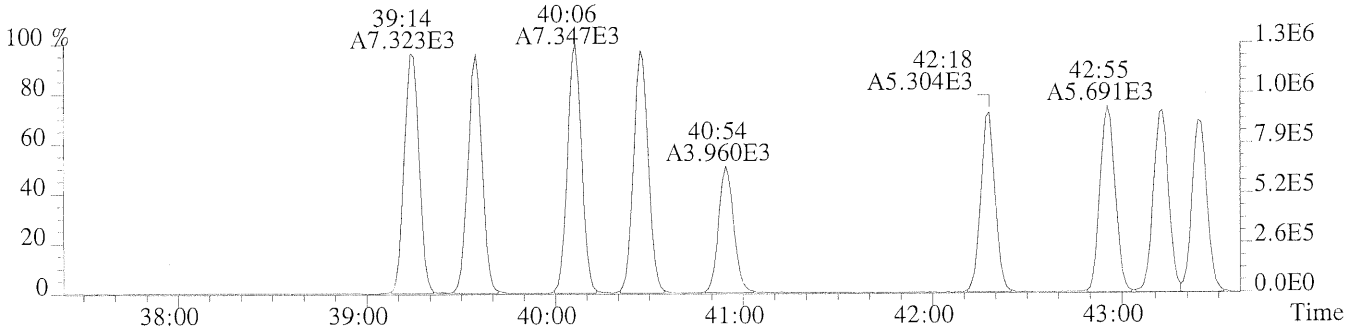


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

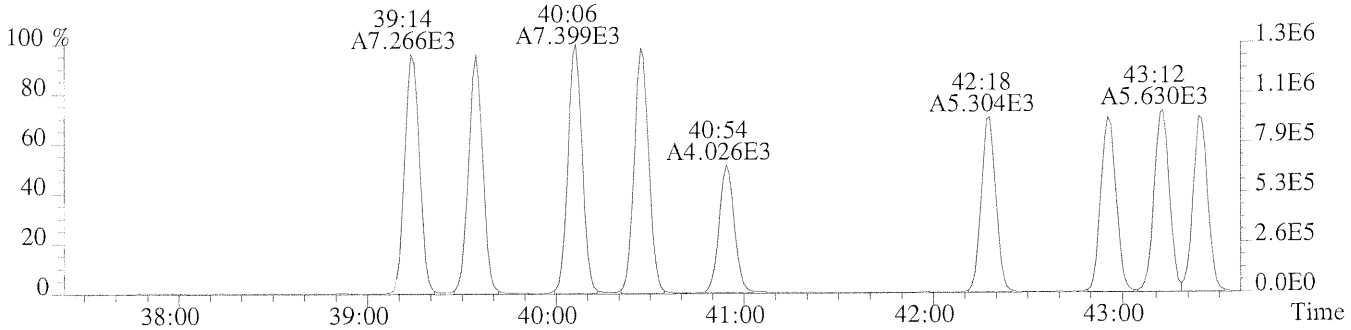


File:U142187 #1-398 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

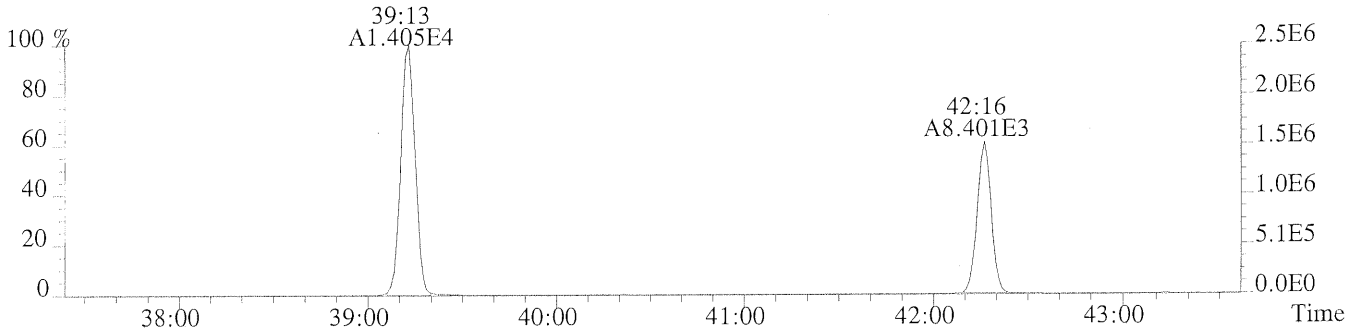
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3336.0,1.00%,F,T)



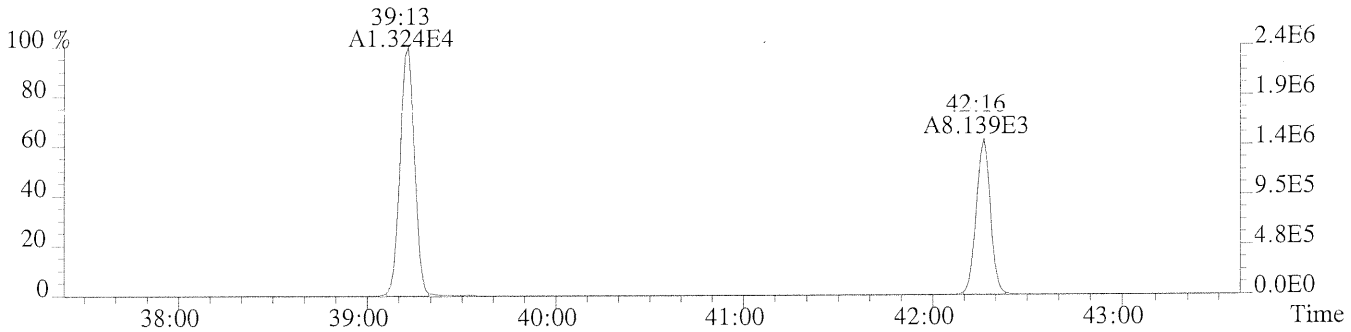
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1576.0,1.00%,F,T)



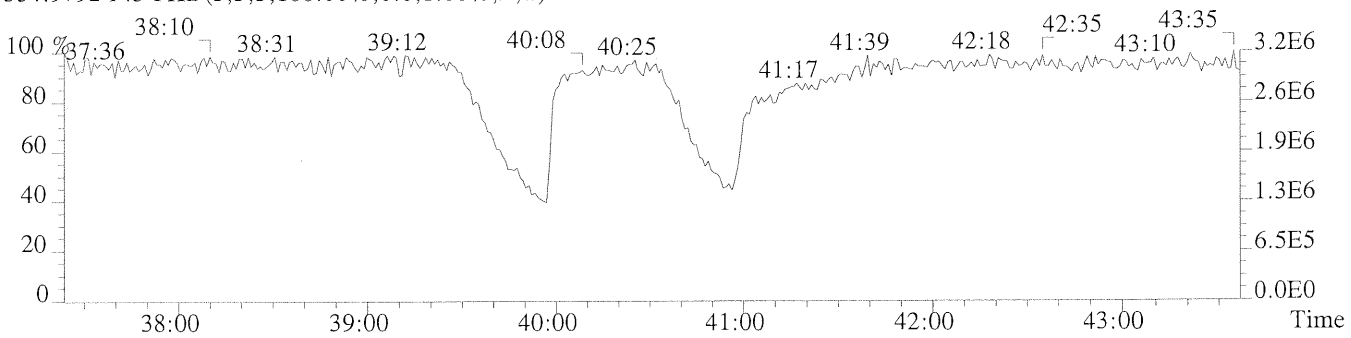
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2368.0,1.00%,F,T)



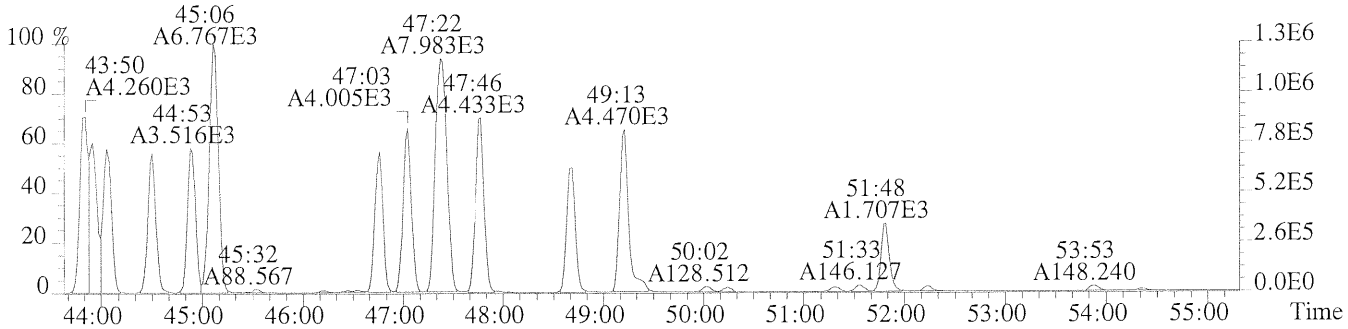
407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1708.0,1.00%,F,T)



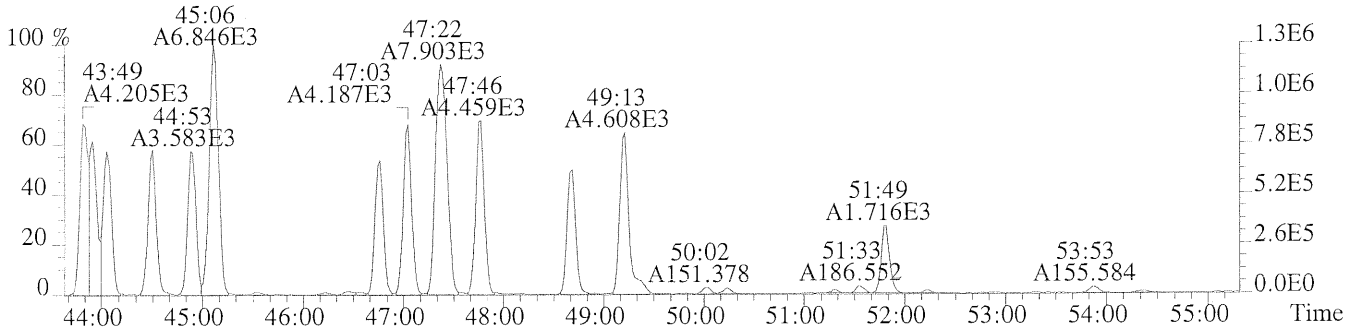
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)



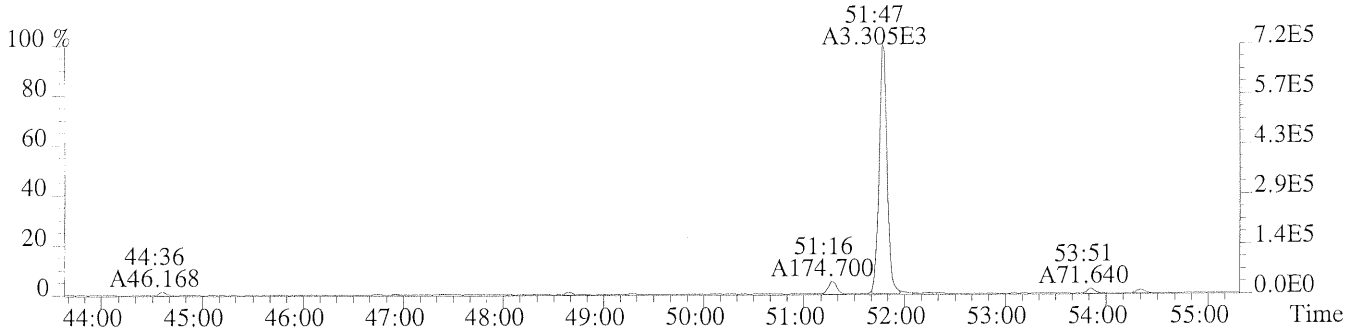
File:U142187 #1-579 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4840.0,1.00%,F,T)



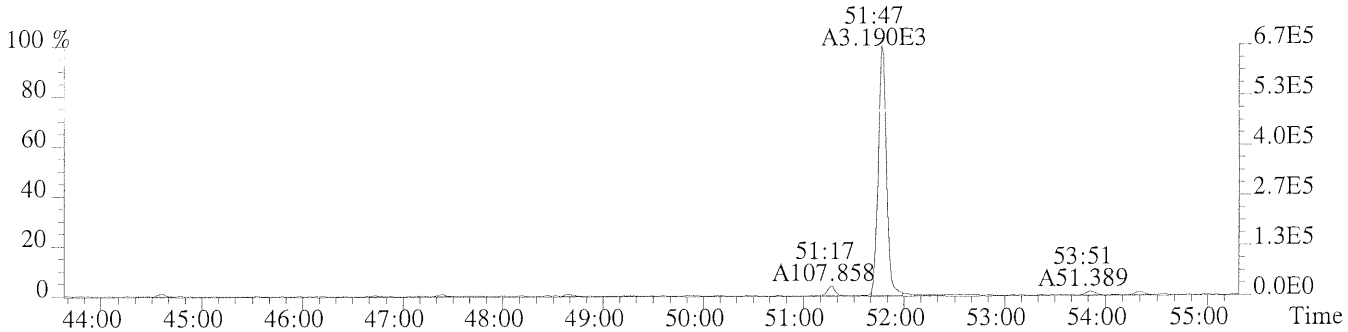
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1972.0,1.00%,F,T)



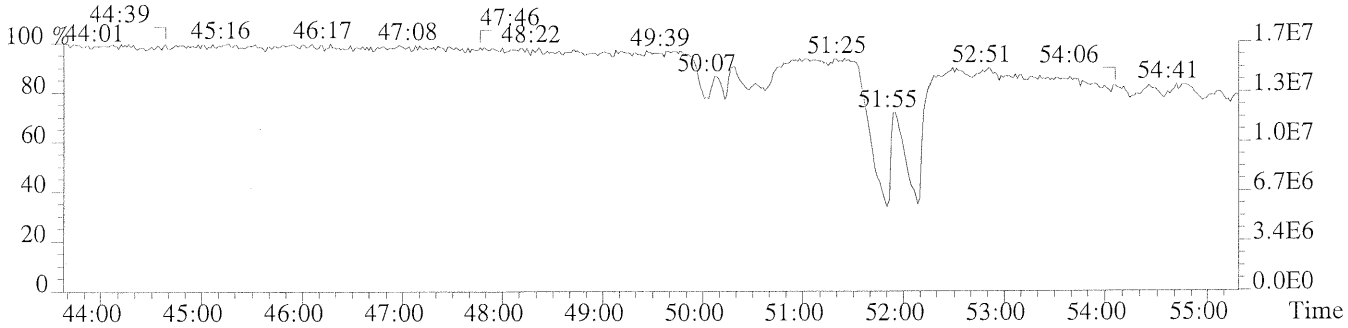
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1500.0,1.00%,F,T)



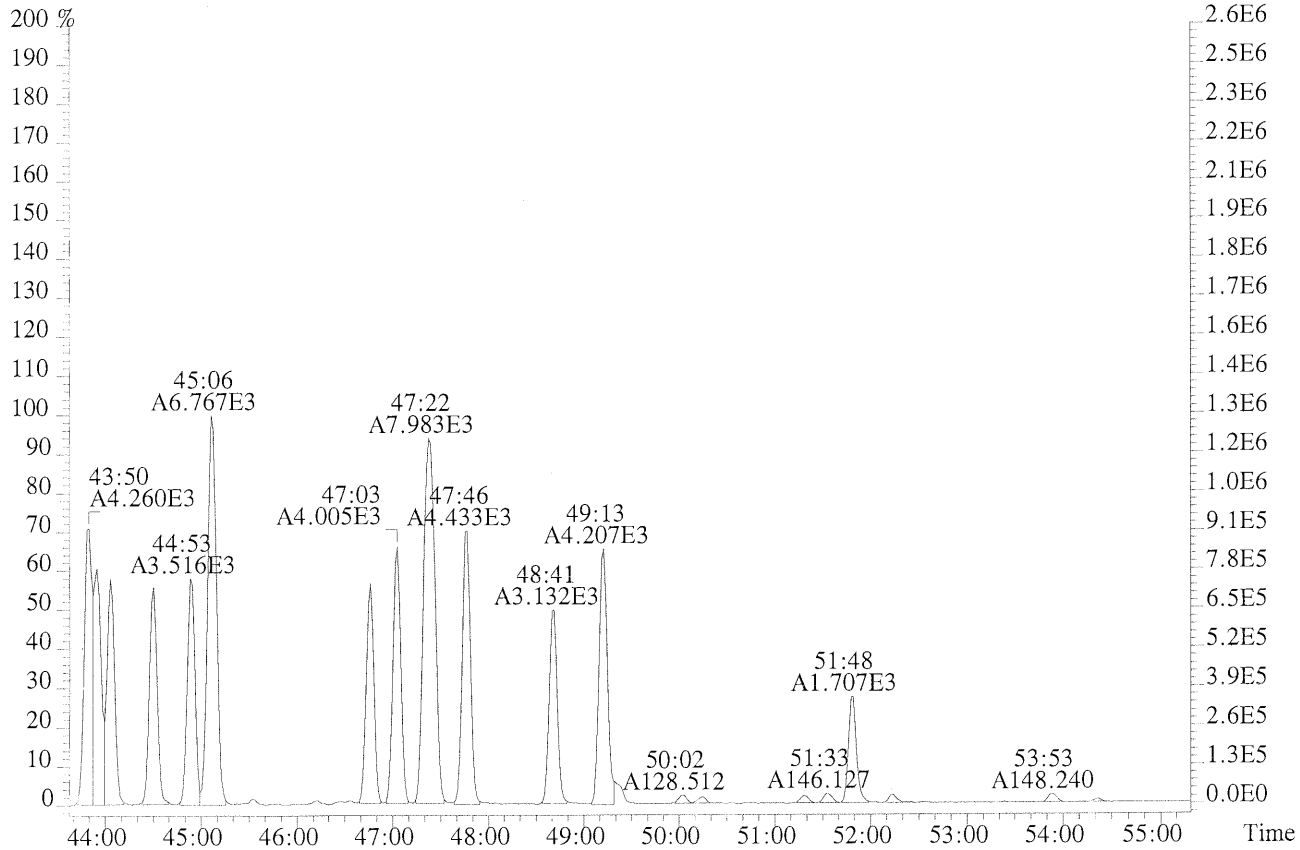
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



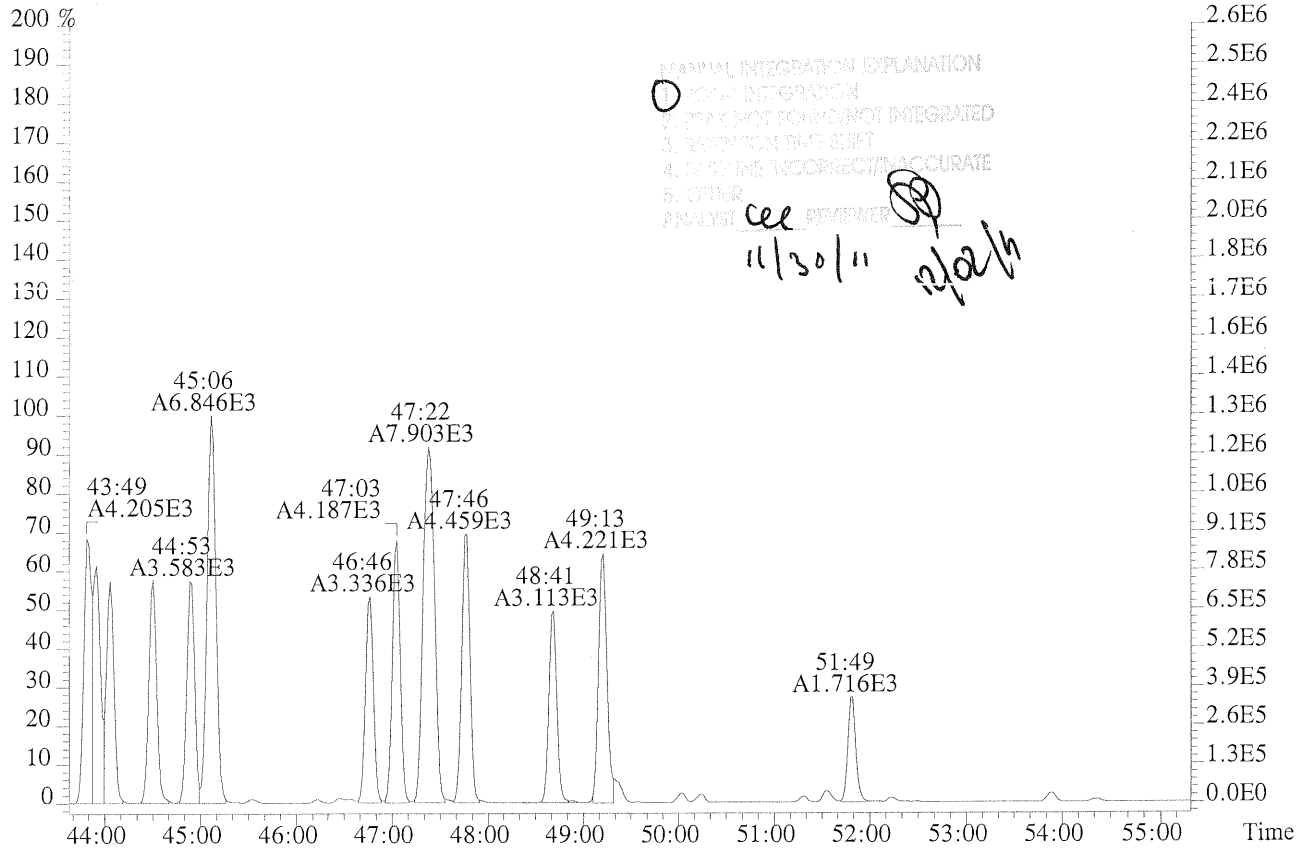
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



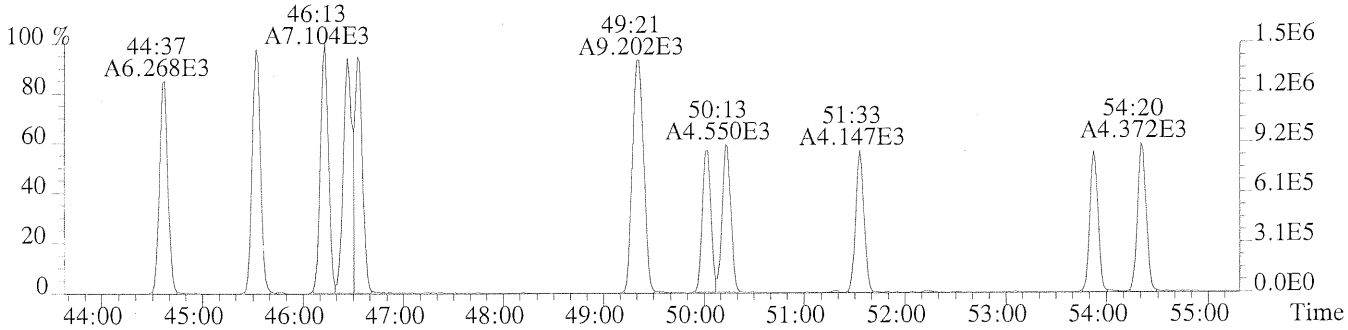
File:U142187 #1-579 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass s£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4840.0,1.00%,F,T)



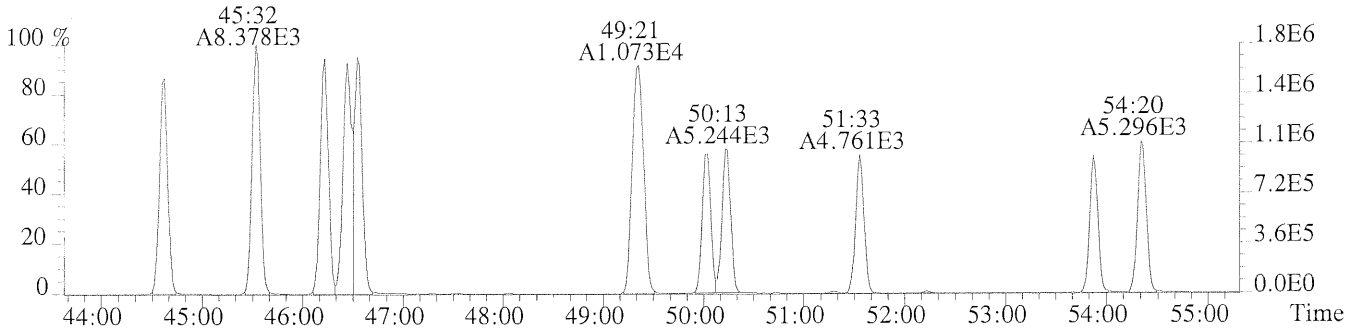
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1972.0,1.00%,F,T)



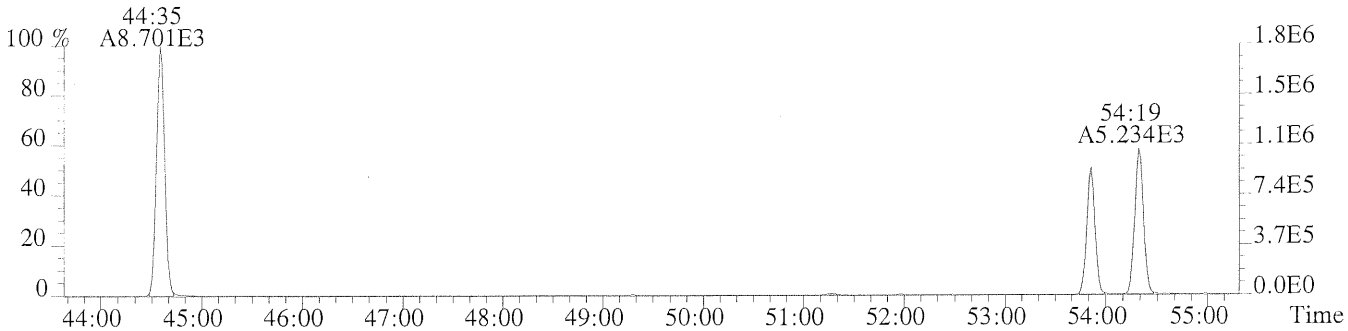
File:U142187 #1-579 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1480.0,1.00%,F,T)



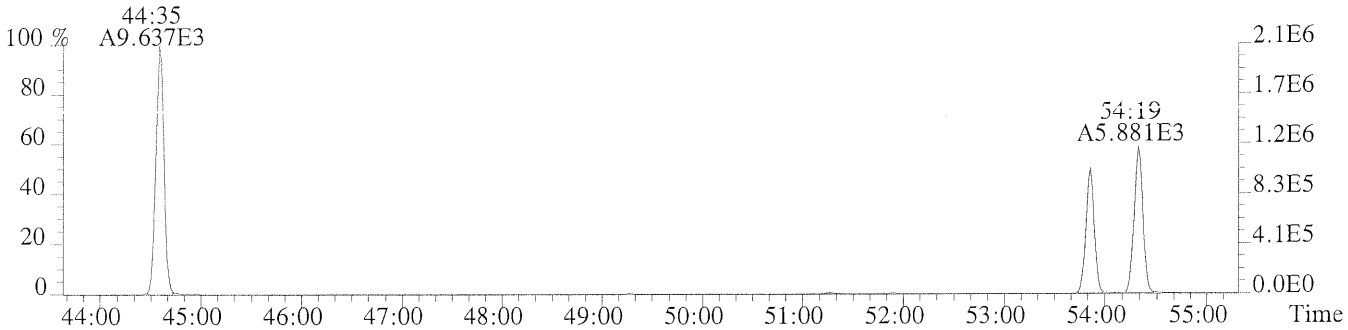
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1700.0,1.00%,F,T)



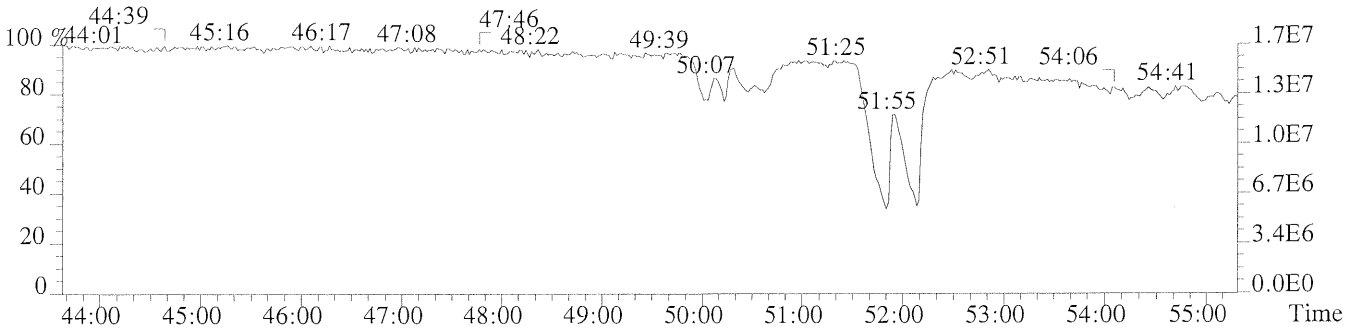
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1248.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1536.0,1.00%,F,T)

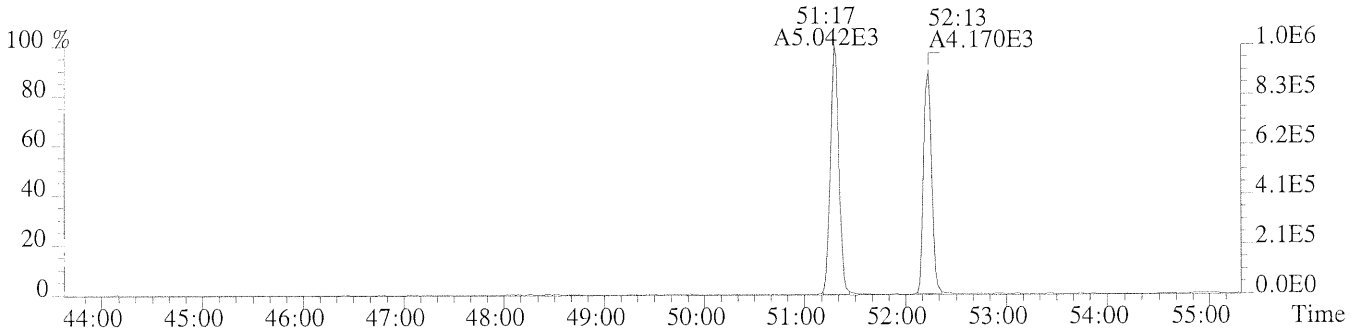


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

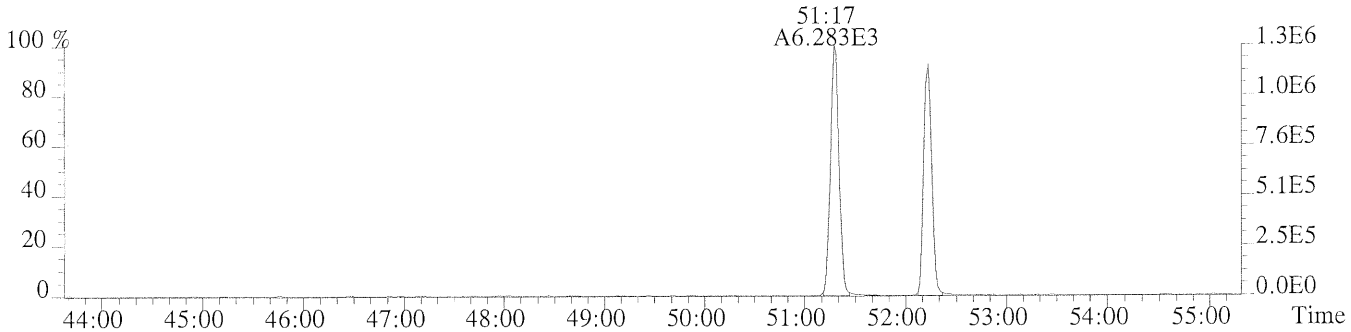


File:U142187 #1-579 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

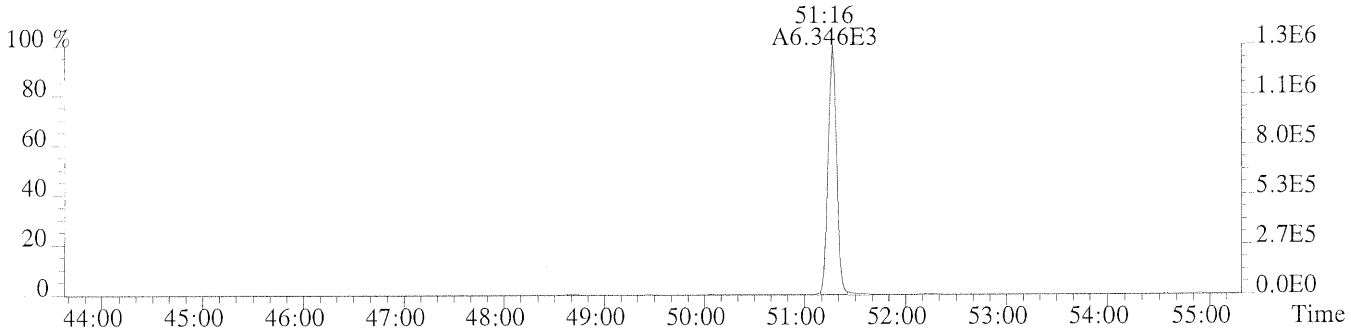
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1188.0,1.00%,F,T)



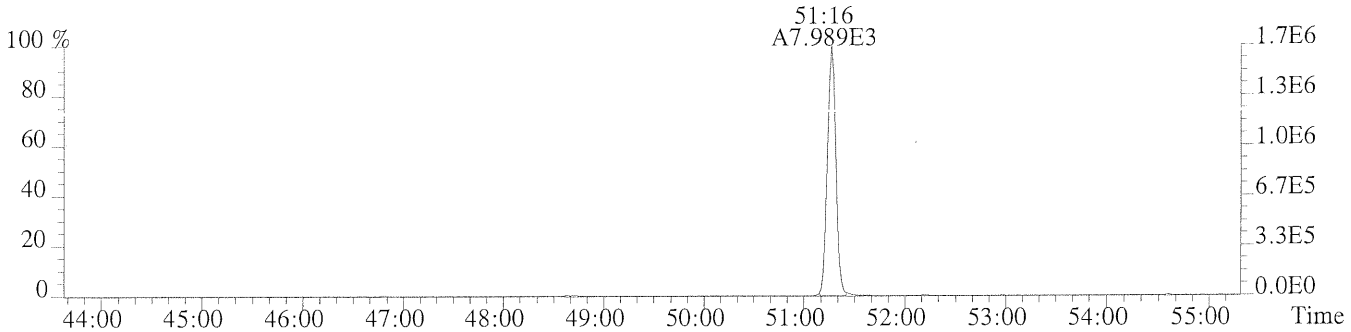
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1184.0,1.00%,F,T)



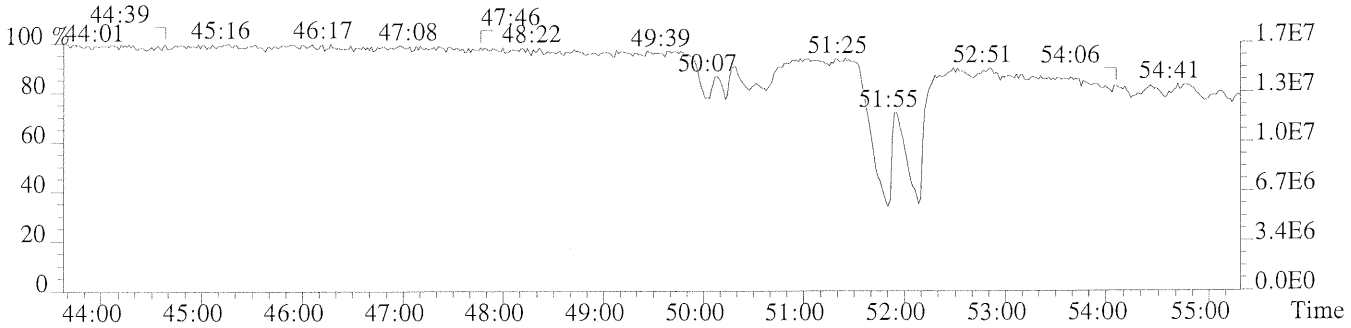
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)

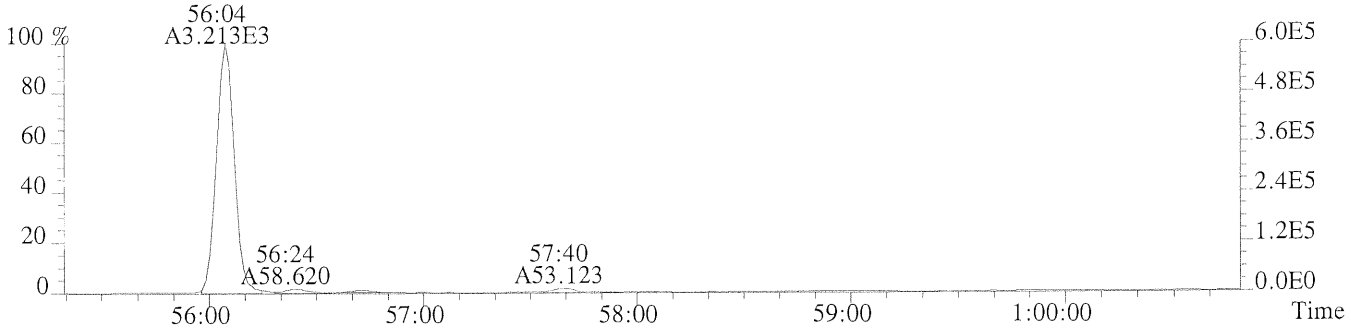


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

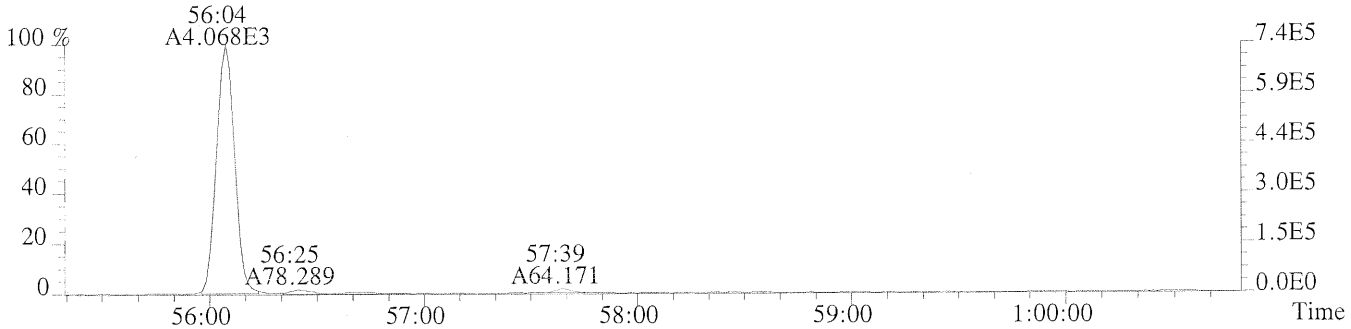


File:U142187 #1-310 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

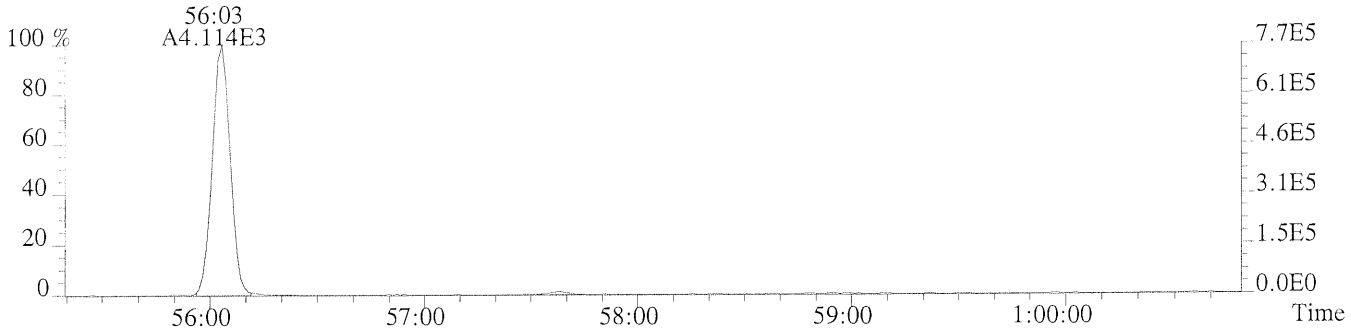
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



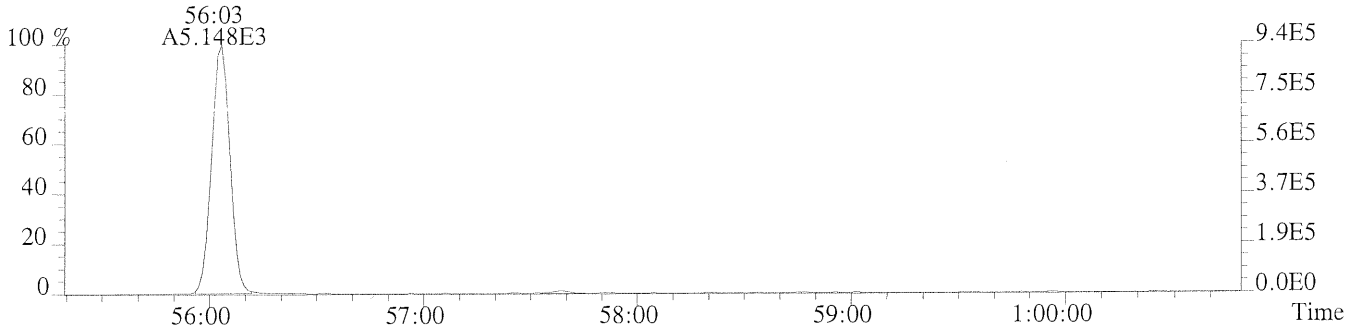
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1132.0,1.00%,F,T)



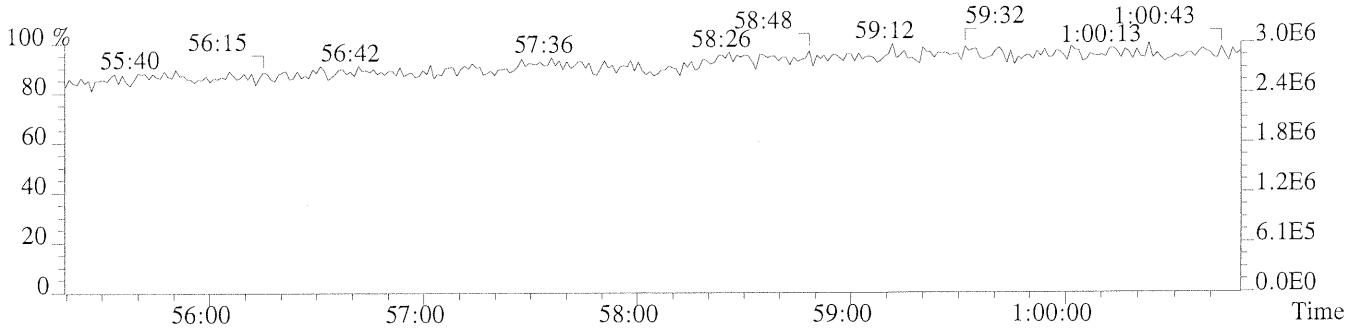
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1096.0,1.00%,F,T)

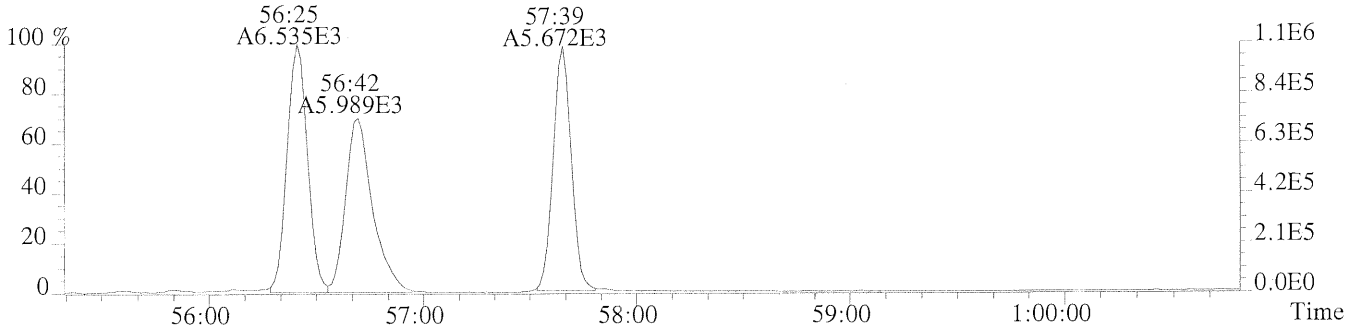


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

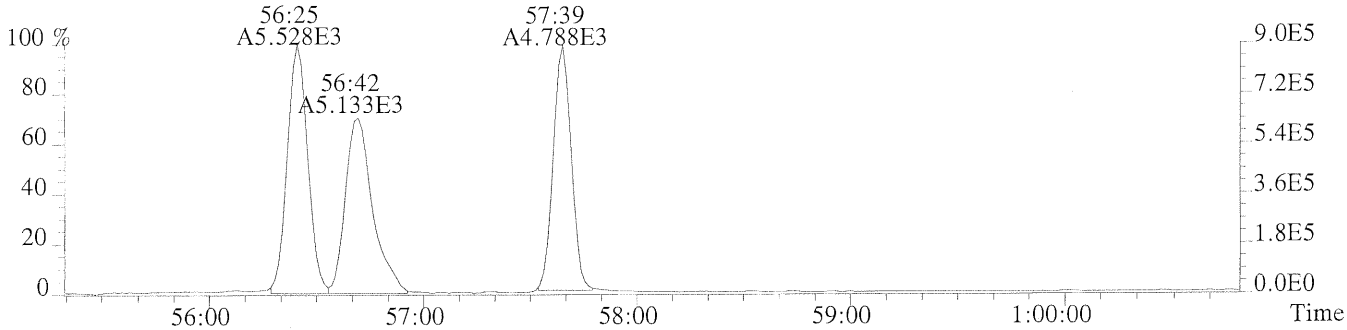


File:U142187 #1-310 Acq:28-NOV-2011 05:24:42 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

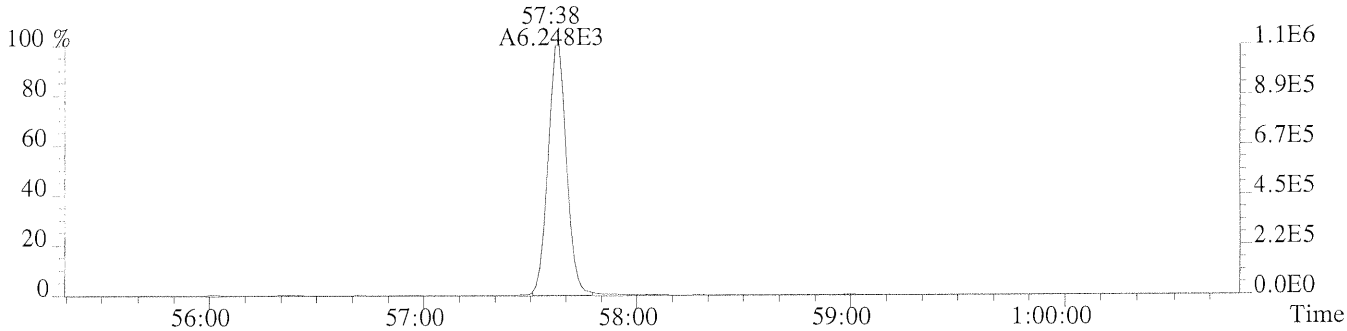
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8352.0,1.00%,F,T)



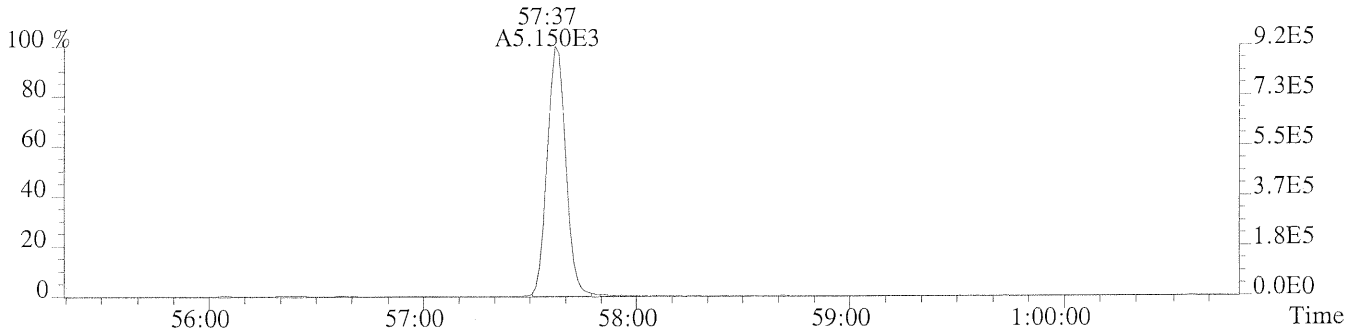
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10360.0,1.00%,F,T)



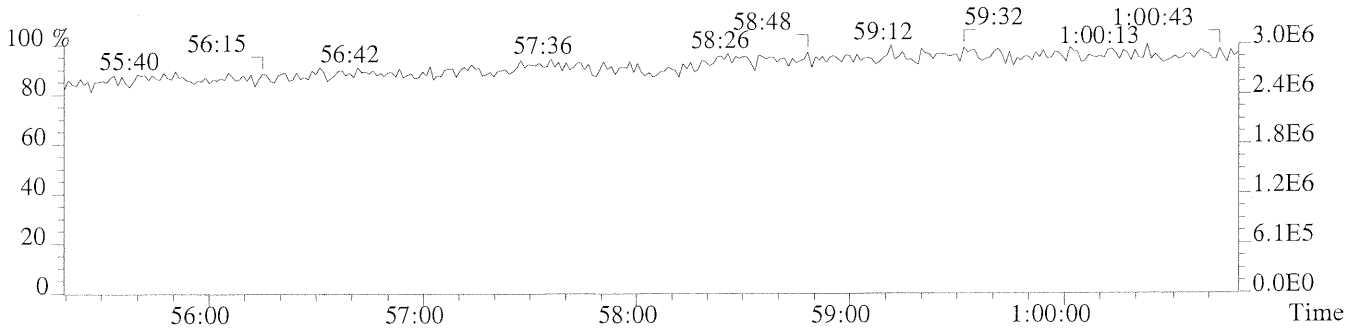
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,740.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



FORM 4A
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142188 Analysis Date: 28-NOV-11 Time: 06:59:07

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
2-MoCB	M/M+2	3.10	2.66-3.60	48.5	35.0 - 65.0
4-MoCB	M/M+2	3.14	2.66-3.60	50.1	35.0 - 65.0
22'-DiCB	M/M+2	1.50	1.33-1.79	49.6	35.0 - 65.0
44'-DiCB	M/M+2	1.47	1.33-1.79	53.0	35.0 - 65.0
22'6'-TrCB	M/M+2	1.01	0.88-1.20	50.8	35.0 - 65.0
344'-TrCB	M/M+2	1.03	0.88-1.20	51.7	35.0 - 65.0
22'66'-TeCB	M/M+2	0.76	0.65-0.89	51.9	35.0 - 65.0
344'5-TeCB	M/M+2	0.80	0.65-0.89	52.1	35.0 - 65.0
33'44'-TeCB	M/M+2	0.79	0.65-0.89	54.3	35.0 - 65.0
22'466'-PeCB	M+2/M+4	1.55	1.32-1.78	49.9	35.0 - 65.0
2'344'5-PeCB	M+2/M+4	1.59	1.32-1.78	51.5	35.0 - 65.0
23'44'5-PeCB	M+2/M+4	1.66	1.32-1.78	50.0	35.0 - 65.0
2344'5-PeCB	M+2/M+4	1.53	1.32-1.78	54.0	35.0 - 65.0
233'44'-PeCB	M+2/M+4	1.59	1.32-1.78	52.1	35.0 - 65.0
33'44'5-PeCB	M+2/M+4	1.60	1.32-1.78	55.8	35.0 - 65.0
22'44'66'-HxCB	M+2/M+4	1.17	1.05-1.43	50.4	35.0 - 65.0
23'44'55'-HxCB	M+2/M+4	1.28	1.05-1.43	51.8	35.0 - 65.0
233'44'5-HxCB	M+2/M+4	1.26	1.05-1.43	103.7	70.0 -130.0
33'44'55'-HxCB	M+2/M+4	1.26	1.05-1.43	54.4	35.0 - 65.0
22'34'566'-HpCB	M+2/M+4	1.01	0.89-1.21	50.3	35.0 - 65.0
233'44'55'-HpCB	M+2/M+4	0.98	0.89-1.21	54.8	35.0 - 65.0
22'33'55'66'-OcCB	M+2/M+4	0.87	0.76-1.02	55.7	35.0 - 65.0
233'44'55'6-OcCB	M+2/M+4	0.84	0.76-1.02	51.6	35.0 - 65.0
22'33'4'55'66'-NoCB	M+2/M+4	0.80	0.65-0.89	56.0	35.0 - 65.0
22'33'44'55'6-NoCB	M+2/M+4	0.73	0.65-0.89	51.0	35.0 - 65.0
DeCB	M+4/M+6	1.19	0.99-1.33	54.4	35.0 - 65.0

(1) See Table 7, Method 1668A, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

(3) Contract-required concentration range as specified in Table 6, Method 1668A, under VER.

SP1668F4A

FORM 4B
PCB CALIBRATION VERIFICATION

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 02/23/11

Instrument ID: E-HRMS-01 GC Column ID: SPB-OCTYL

VER Data Filename: U142188 Analysis Date: 28-NOV-11 Time: 06:59:07

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	CONC. FOUND	CONC. RANGE (3) (ng/mL)
LABELED COMPOUNDS					
13C-2-MoCB	M/M+2	3.01	2.66-3.60	98.6	50.0 - 150.0
13C-4-MoCB	M/M+2	3.07	2.66-3.60	99.6	50.0 - 150.0
13C-22'-DiCB	M/M+2	1.57	1.33-1.79	105.4	50.0 - 150.0
13C-44'-DiCB	M/M+2	1.52	1.33-1.79	105.3	50.0 - 150.0
13C-22'6'-TrCB	M/M+2	1.05	0.88-1.20	109.9	50.0 - 150.0
13C-344'-TrCB	M/M+2	1.05	0.88-1.20	98.5	50.0 - 150.0
13C-22'66'-TeCB	M/M+2	0.79	0.65-0.89	89.8	50.0 - 150.0
13C-344'5-TeCB	M/M+2	0.78	0.65-0.89	103.1	50.0 - 150.0
13C-33'44'-TeCB	M/M+2	0.81	0.65-0.89	97.3	50.0 - 150.0
13C-22'466'-PeCB	M+2/M+4	1.61	1.32-1.78	89.8	50.0 - 150.0
13C-2'344'5-PeCB	M+2/M+4	1.57	1.32-1.78	96.2	50.0 - 150.0
13C-23'44'5-PeCB	M+2/M+4	1.53	1.32-1.78	95.7	50.0 - 150.0
13C-2344'5-PeCB	M+2/M+4	1.52	1.32-1.78	89.6	50.0 - 150.0
13C-233'44'-PeCB	M+2/M+4	1.58	1.32-1.78	93.0	50.0 - 150.0
13C-33'44'5-PeCB	M+2/M+4	1.53	1.32-1.78	91.7	50.0 - 150.0
13C-22'44'66'-HxCB	M+2/M+4	1.27	1.05-1.43	93.8	50.0 - 150.0
13C-23'44'55'-HxCB	M+2/M+4	1.24	1.05-1.43	90.9	50.0 - 150.0
13C-233'44'5'-HxCB	M+2/M+4	1.26	1.05-1.43	185.3	100.0 - 300.0
13C-33'44'55'-HxCB	M+2/M+4	1.28	1.05-1.43	87.0	50.0 - 150.0
13C-22'34'566'-HpCB	M+2/M+4	1.04	0.89-1.21	115.4	50.0 - 150.0
13C-233'44'55'-HpCB	M+2/M+4	1.02	0.89-1.21	108.0	50.0 - 150.0
13C-22'33'55'66'-OcCB	M+2/M+4	0.91	0.76-1.02	102.6	50.0 - 150.0
13C-233'44'55'6-OcCB	M+2/M+4	0.91	0.76-1.02	102.3	50.0 - 150.0
13C-22'33'4'55'66'-NoCB	M+2/M+4	0.79	0.65-0.89	105.9	50.0 - 150.0
13C-22'33'44'55'6-NoCB	M+2/M+4	0.78	0.65-0.89	101.2	50.0 - 150.0
13C-DeCB	M+4/M+6	1.19	0.99-1.33	92.2	50.0 - 150.0
CLEANUP STANDARDS					
13C-244'-TrCB	M/M+2	1.03	0.88-1.20	94.5	50.0 - 150.0
13C-233'55'-PeCB	M+2/M+4	1.60	1.32-1.78	96.4	50.0 - 150.0
13C-22'33'55'6-HpCB	M+2/M+4	1.08	0.89-1.21	89.4	50.0 - 150.0

(1) See Table 7, Method 1668A, for m/z specifications.
(2) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.
(3) Contract-required concentration range, as specified in Table 6, Method 1668A, under VER.

SP1668F4B

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
CCAL CS3

Run #7 Filename U142188 Samp: 1 Inj: 1 Acquired: 28-NOV-11 06:59:07
Processed: 30-NOV-11 09:59:17 Sample ID: CCAL CS3

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?
1	1	2-MoCB	13:20	1.338e+04	4.314e+03	3.10	yes	no
2	3	4-MoCB	15:36	1.304e+04	4.157e+03	3.14	yes	no
3	4	22'-DiCB	15:51	7.950e+03	5.294e+03	1.50	yes	no
4	15	44'-DiCB	21:54	8.836e+03	6.027e+03	1.47	yes	no
5	19	22'6'-TrCB	19:02	5.058e+03	5.008e+03	1.01	yes	no
6	37	344'-TrCB	29:01	7.693e+03	7.458e+03	1.03	yes	no
7	54	22'66'-TeCB	22:10	5.474e+03	7.234e+03	0.76	yes	no
8	81	344'5-TeCB	35:48	5.567e+03	6.989e+03	0.80	yes	no
9	77	33'44'-TeCB	36:22	5.251e+03	6.648e+03	0.79	yes	no
10	104	22'466'-PeCB	27:46	8.827e+03	5.690e+03	1.55	yes	no
11	123	2'344'5-PeCB	38:22	7.185e+03	4.517e+03	1.59	yes	no
12	118	23'44'5-PeCB	38:42	7.228e+03	4.346e+03	1.66	yes	no
13	114	2344'5-PeCB	39:14	7.023e+03	4.599e+03	1.53	yes	no
14	105	233'44'-PeCB	39:52	6.871e+03	4.314e+03	1.59	yes	no
15	126	33'44'5-PeCB	42:58	6.112e+03	3.831e+03	1.60	yes	no
16	155	22'44'66'-HxCB	33:28	8.278e+03	7.059e+03	1.17	yes	no
17	167	23'44'55'-HxCB	44:51	4.726e+03	3.682e+03	1.28	yes	no
18	156/7	233'44'5-HxCB	46:00	8.846e+03	7.020e+03	1.26	yes	no
19	169	33'44'55'-HxCB	49:15	3.761e+03	2.986e+03	1.26	yes	no
20	188	22'34'566'-HpCB	39:12	6.717e+03	6.627e+03	1.01	yes	no
21	189	233'44'55'-HpCB	51:45	3.261e+03	3.319e+03	0.98	yes	no
22	202	22'33'55'66'-OcCB	44:35	4.080e+03	4.691e+03	0.87	yes	no
23	205	233'44'55'6-OcCB	54:19	2.879e+03	3.423e+03	0.84	yes	no
24	208	22'33'4'55'66'-NoCB	51:15	3.062e+03	3.814e+03	0.80	yes	no
25	206	22'33'44'55'6-NoCB	56:03	1.993e+03	2.733e+03	0.73	yes	no
26	209	DeCB	57:38	3.745e+03	3.159e+03	1.19	yes	no
27	1L	13C-2-MoCB	13:19	2.554e+04	8.499e+03	3.01	yes	no
28	3L	13C-4-MoCB	15:35	2.497e+04	8.123e+03	3.07	yes	no
29	4L	13C-22'-DiCB	15:50	1.464e+04	9.334e+03	1.57	yes	no
30	15L	13C-44'-DiCB	21:53	1.731e+04	1.138e+04	1.52	yes	no
31	19L	13C-22'6'-TrCB	19:01	1.015e+04	9.644e+03	1.05	yes	no
32	37L	13C-344'-TrCB	29:00	1.380e+04	1.311e+04	1.05	yes	no
33	54L	13C-22'66'-TeCB	22:09	1.082e+04	1.363e+04	0.79	yes	no
34	81L	13C-344'5-TeCB	35:47	1.024e+04	1.307e+04	0.78	yes	no
35	77L	13C-33'44'-TeCB	36:21	9.885e+03	1.215e+04	0.81	yes	no
36	104L	13C-22'466'-PeCB	27:44	1.744e+04	1.080e+04	1.61	yes	no
37	123L	13C-2'344'5-PeCB	38:21	1.364e+04	8.672e+03	1.57	yes	no
38	118L	13C-23'44'5-PeCB	38:41	1.405e+04	9.163e+03	1.53	yes	no
39	114L	13C-2344'5-PeCB	39:12	1.308e+04	8.619e+03	1.52	yes	no
40	105L	13C-233'44'-PeCB	39:51	1.300e+04	8.233e+03	1.58	yes	no
41	126L	13C-33'44'5-PeCB	42:57	1.121e+04	7.337e+03	1.53	yes	no
42	155L	13C-22'44'66'-HxCB	33:26	1.721e+04	1.360e+04	1.27	yes	no
43	167L	13C-23'44'55'-HxCB	44:50	8.897e+03	7.196e+03	1.24	yes	no
44	156/7	13C-233'44'5'-HxCB	45:59	1.698e+04	1.343e+04	1.26	yes	no
45	169L	13C-33'44'55'-HxCB	49:14	7.026e+03	5.473e+03	1.28	yes	no
46	188L	13C-22'34'566'-HpCB	39:11	1.367e+04	1.313e+04	1.04	yes	no
47	189L	13C-233'44'55'-HpCB	51:44	7.030e+03	6.885e+03	1.02	yes	no
48	202L	13C-22'33'55'66'-OcCB	44:34	8.695e+03	9.545e+03	0.91	yes	no
49	205L	13C-233'44'55'6-OcCB	54:18	6.541e+03	7.196e+03	0.91	yes	no
50	208L	13C-22'33'4'55'66'-NoCB	51:14	6.155e+03	7.798e+03	0.79	yes	no
51	206L	13C-22'33'44'55'6-NoCB	56:01	4.374e+03	5.577e+03	0.78	yes	no
52	209L	13C-DeCB	57:37	7.705e+03	6.500e+03	1.19	yes	no

53	28L	13C-244'-TrCB	24:57	1.584e+04	1.545e+04	1.03	yes	no
54	111L	13C-233'55'-PeCB	36:23	1.655e+04	1.034e+04	1.60	yes	no
55	178L	13C-22'33'55'6-HpCB	42:14	8.881e+03	8.213e+03	1.08	yes	no
56	9L	13C-2,5-DiCB	17:52	1.718e+04	1.114e+04	1.54	yes	no
57	52L	13C-22'55'-TeCB	26:46	1.029e+04	1.359e+04	0.76	yes	no
58	101L	13C-22'4'55'-PeCB	33:41	1.369e+04	8.829e+03	1.55	yes	no
59	138L	13C-22'3'44'5'-HxCB	41:48	1.124e+04	8.823e+03	1.27	yes	no
60	194L	13C-22'33'44'55'-OcCB	53:49	4.632e+03	5.224e+03	0.89	yes	no

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
Office(713)266-1599. Fax(713)266-0130

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
CCAL CS3

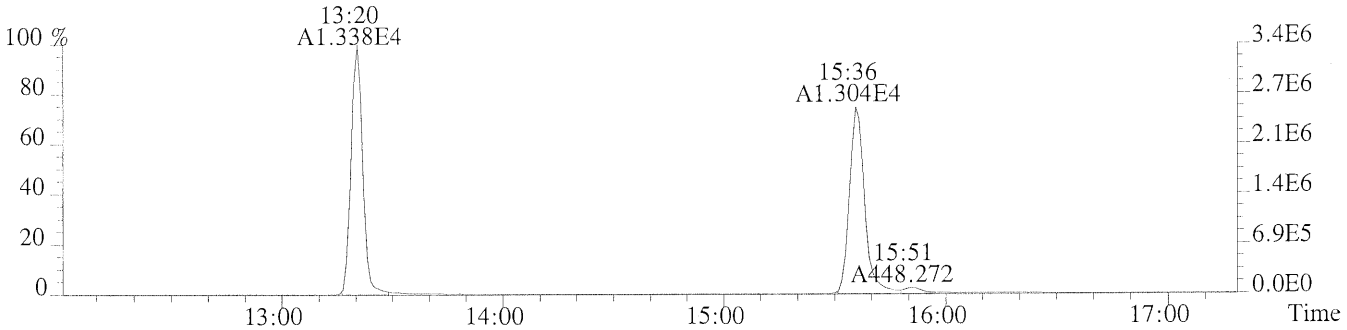
Run #7 Filename U142188 Samp: 1 Inj: 1 Acquired: 28-NOV-11 06:59:07
Processed: 30-NOV-11 09:59:171 LAB. ID: CCAL CS3

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	3.43e+06	1.95e+03	1.8e+03	1.11e+06	1.53e+03	7.2e+02
2	4-MoCB	2.56e+06	1.95e+03	1.3e+03	8.34e+05	1.53e+03	5.5e+02
3	22'-DiCB	1.75e+06	2.34e+03	7.5e+02	1.15e+06	2.62e+04	4.4e+01
4	44'-DiCB	1.54e+06	3.02e+03	5.1e+02	1.03e+06	2.85e+04	3.6e+01
5	22'6'-TrCB	1.08e+06	2.14e+03	5.1e+02	1.08e+06	1.43e+03	7.6e+02
6	344'-TrCB	1.23e+06	1.76e+03	7.0e+02	1.22e+06	1.30e+03	9.4e+02
7	22'66'-TeCB	1.09e+06	1.00e+03	1.1e+03	1.44e+06	1.14e+03	1.3e+03
8	344'5-TeCB	9.36e+05	1.22e+03	7.6e+02	1.16e+06	9.08e+02	1.3e+03
9	33'44'-TeCB	8.38e+05	1.22e+03	6.8e+02	1.11e+06	9.08e+02	1.2e+03
10	22'466'-PeCB	1.56e+06	1.11e+03	1.4e+03	1.01e+06	1.22e+03	8.3e+02
11	2'344'5-PeCB	1.27e+06	2.58e+03	4.9e+02	8.18e+05	6.20e+03	1.3e+02
12	23'44'5-PeCB	1.26e+06	2.58e+03	4.9e+02	7.93e+05	6.20e+03	1.3e+02
13	2344'5-PeCB	1.23e+06	2.58e+03	4.7e+02	7.89e+05	6.20e+03	1.3e+02
14	233'44'-PeCB	1.15e+06	2.58e+03	4.5e+02	7.62e+05	6.20e+03	1.2e+02
15	33'44'5-PeCB	9.51e+05	2.58e+03	3.7e+02	6.15e+05	6.20e+03	9.9e+01
16	22'44'66'-HxCB	1.54e+06	1.46e+03	1.1e+03	1.31e+06	9.52e+02	1.4e+03
17	23'44'55'-HxCB	1.00e+06	3.78e+03	2.7e+02	7.82e+05	3.65e+03	2.1e+02
18	233'44'5-HxCB	1.43e+06	3.78e+03	3.8e+02	1.14e+06	3.65e+03	3.1e+02
19	33'44'55'-HxCB	7.43e+05	3.78e+03	2.0e+02	5.86e+05	3.65e+03	1.6e+02
20	22'34'566'-HpCB	1.19e+06	1.28e+03	9.3e+02	1.17e+06	4.04e+02	2.9e+03
21	233'44'55'-HpCB	6.86e+05	1.66e+03	4.1e+02	6.85e+05	1.34e+03	5.1e+02
22	22'33'55'66'-OcCB	8.68e+05	1.40e+03	6.2e+02	9.94e+05	1.56e+03	6.4e+02
23	233'44'55'6-OcCB	5.70e+05	1.40e+03	4.1e+02	7.06e+05	1.56e+03	4.5e+02
24	22'33'4'55'66'-NoCB	6.35e+05	1.16e+03	5.5e+02	7.57e+05	9.04e+02	8.4e+02
25	22'33'44'55'6-NoCB	3.66e+05	5.68e+02	6.4e+02	5.05e+05	1.45e+03	3.5e+02
26	DeCB	6.59e+05	8.36e+02	7.9e+02	5.60e+05	9.12e+02	6.1e+02
27	13C-2-MoCB	6.62e+06	2.47e+03	2.7e+03	2.19e+06	6.27e+03	3.5e+02
28	13C-4-MoCB	4.93e+06	2.47e+03	2.0e+03	1.62e+06	6.27e+03	2.6e+02
29	13C-22'-DiCB	3.17e+06	1.32e+03	2.4e+03	2.01e+06	1.53e+03	1.3e+03
30	13C-44'-DiCB	3.05e+06	2.35e+03	1.3e+03	2.01e+06	1.38e+03	1.5e+03
31	13C-22'6'-TrCB	2.16e+06	1.11e+04	1.9e+02	2.06e+06	1.07e+04	1.9e+02
32	13C-344'-TrCB	2.22e+06	1.64e+04	1.4e+02	2.11e+06	1.15e+04	1.8e+02
33	13C-22'66'-TeCB	2.17e+06	3.64e+03	6.0e+02	2.78e+06	1.30e+03	2.1e+03
34	13C-344'5-TeCB	1.74e+06	2.19e+03	7.9e+02	2.24e+06	1.02e+03	2.2e+03
35	13C-33'44'-TeCB	1.58e+06	2.19e+03	7.2e+02	2.04e+06	1.02e+03	2.0e+03
36	13C-22'466'-PeCB	3.17e+06	1.10e+03	2.9e+03	1.88e+06	1.14e+03	1.6e+03
37	13C-2'344'5-PeCB	2.37e+06	8.62e+03	2.7e+02	1.51e+06	3.26e+03	4.6e+02
38	13C-23'44'5-PeCB	2.41e+06	8.62e+03	2.8e+02	1.56e+06	3.26e+03	4.8e+02
39	13C-2344'5-PeCB	2.32e+06	8.62e+03	2.7e+02	1.50e+06	3.26e+03	4.6e+02
40	13C-233'44'-PeCB	2.22e+06	8.62e+03	2.6e+02	1.46e+06	3.26e+03	4.5e+02
41	13C-33'44'5-PeCB	1.85e+06	8.62e+03	2.2e+02	1.23e+06	3.26e+03	3.8e+02
42	13C-22'44'66'-HxCB	3.11e+06	1.08e+03	2.9e+03	2.48e+06	1.08e+03	2.3e+03
43	13C-23'44'55'-HxCB	1.87e+06	3.21e+03	5.8e+02	1.50e+06	2.46e+03	6.1e+02
44	13C-233'44'5'-HxCB	2.76e+06	3.21e+03	8.6e+02	2.19e+06	2.46e+03	8.9e+02
45	13C-33'44'55'-HxCB	1.37e+06	3.21e+03	4.3e+02	1.07e+06	2.46e+03	4.3e+02
46	13C-22'34'566'-HpCB	2.47e+06	9.72e+02	2.5e+03	2.36e+06	8.56e+02	2.8e+03
47	13C-233'44'55'-HpCB	1.45e+06	1.23e+03	1.2e+03	1.41e+06	1.06e+03	1.3e+03
48	13C-22'33'55'66'-OcCB	1.83e+06	1.46e+03	1.3e+03	2.01e+06	1.63e+03	1.2e+03
49	13C-233'44'55'6-OcCB	1.30e+06	1.46e+03	8.9e+02	1.42e+06	1.63e+03	8.7e+02
50	13C-22'33'4'55'66'-NoCB	1.28e+06	1.11e+03	1.2e+03	1.61e+06	9.20e+02	1.8e+03
51	13C-22'33'44'55'6-NoCB	7.75e+05	5.96e+02	1.3e+03	1.01e+06	8.28e+02	1.2e+03
52	13C-DeCB	1.38e+06	7.40e+02	1.9e+03	1.16e+06	6.44e+02	1.8e+03

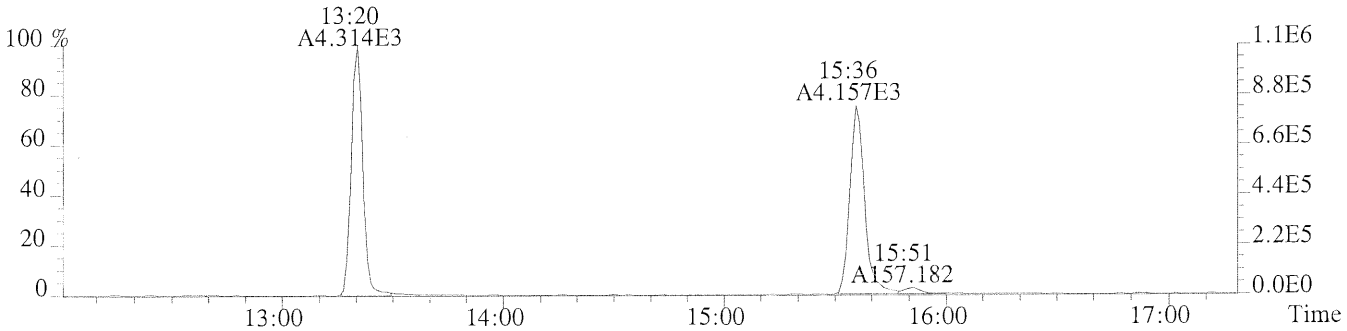
53	13C-244'-TrCB	2.75e+06	1.64e+04	1.7e+02	2.66e+06	1.15e+04	2.3e+02
54	13C-233'55'-PeCB	2.99e+06	3.08e+03	9.7e+02	1.89e+06	1.32e+03	1.4e+03
55	13C-22'33'55'6-HpCB	1.60e+06	9.72e+02	1.6e+03	1.46e+06	8.56e+02	1.7e+03
56	13C-2,5-DiCB	3.66e+06	2.35e+03	1.6e+03	2.38e+06	1.38e+03	1.7e+03
57	13C-22'55'-TeCB	1.84e+06	3.08e+03	6.0e+02	2.43e+06	1.35e+03	1.8e+03
58	13C-22'4'55'-PeCB	2.49e+06	3.08e+03	8.1e+02	1.59e+06	1.32e+03	1.2e+03
59	13C-22'3'44'5'-HxCB	1.94e+06	8.04e+02	2.4e+03	1.53e+06	9.88e+02	1.6e+03
60	13C-22'33'44'55'-OcCB	9.75e+05	1.46e+03	6.7e+02	1.09e+06	1.63e+03	6.7e+02

File:U142188 #1-341 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

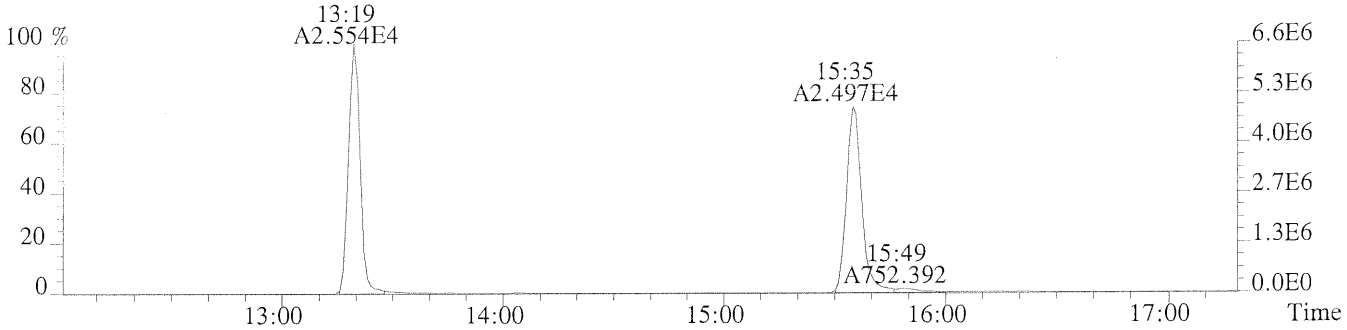
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1952.0,1.00%,F,T)



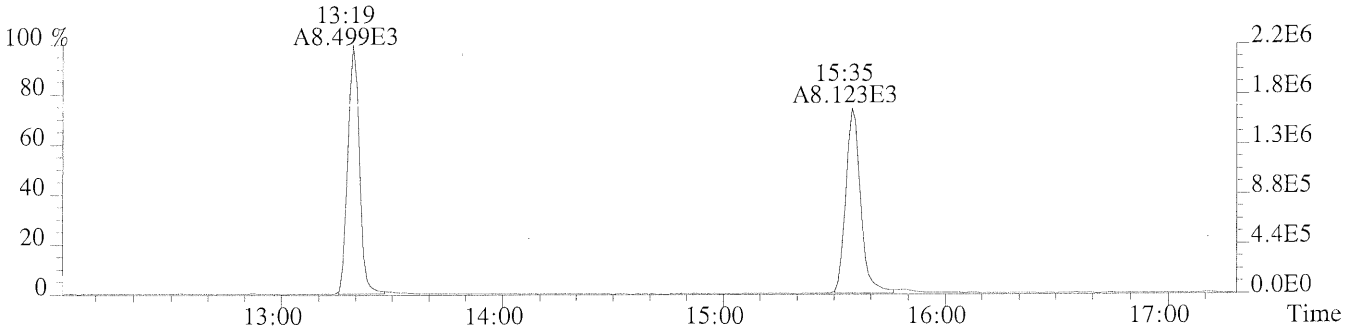
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1528.0,1.00%,F,T)



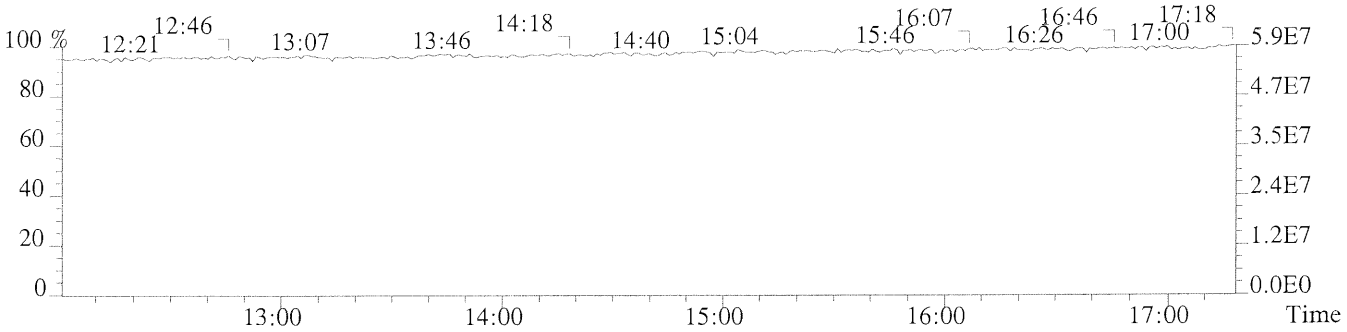
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2468.0,1.00%,F,T)



202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6272.0,1.00%,F,T)

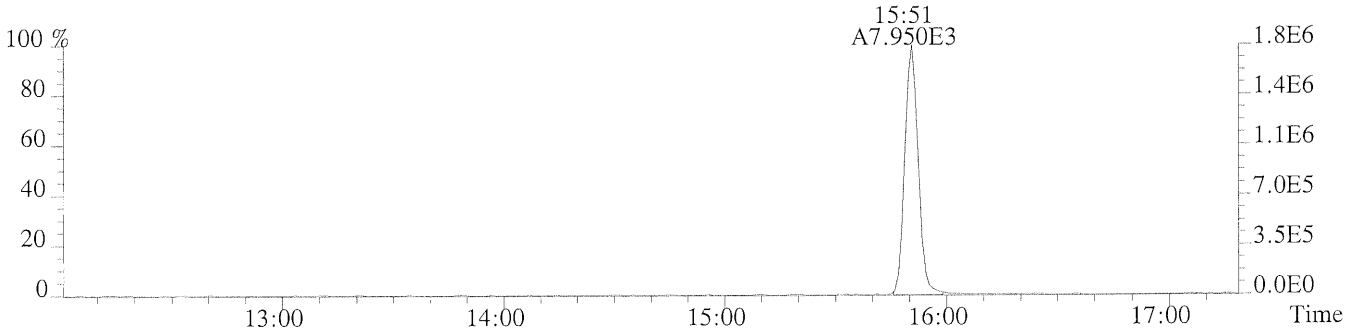


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

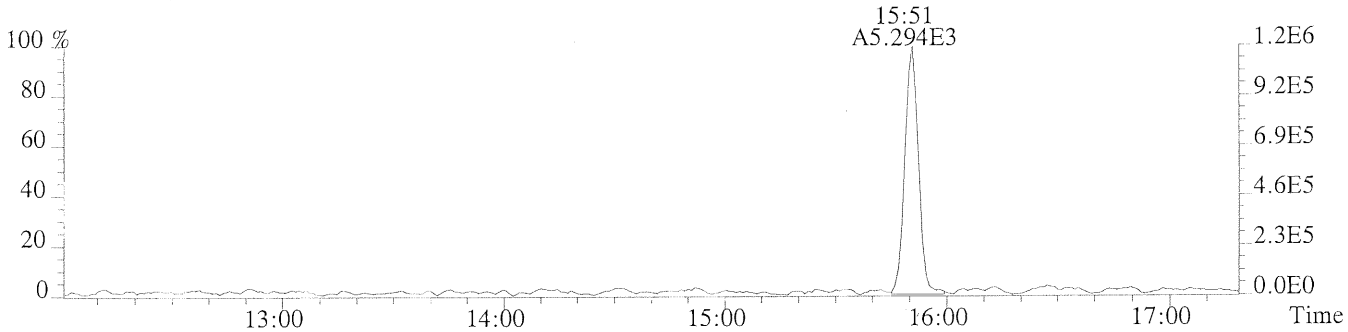


File:U142188 #1-341 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

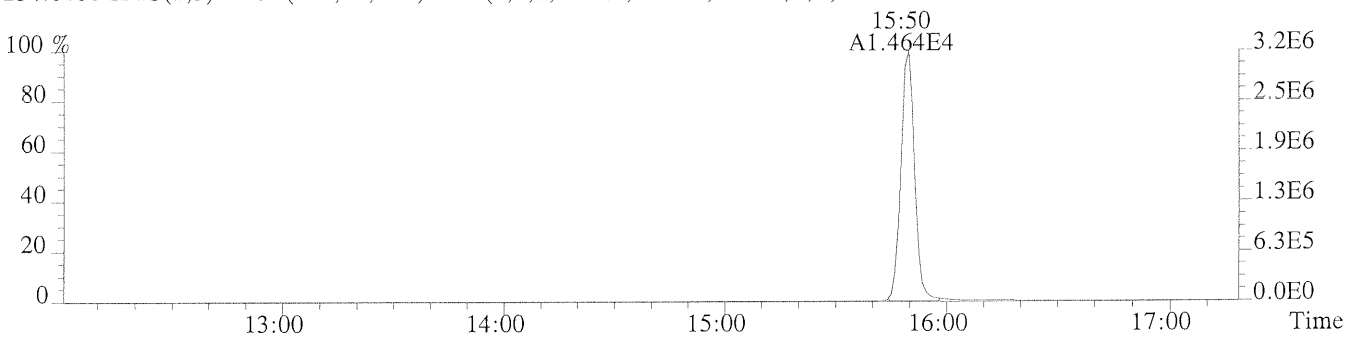
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2336.0,1.00%,F,T)



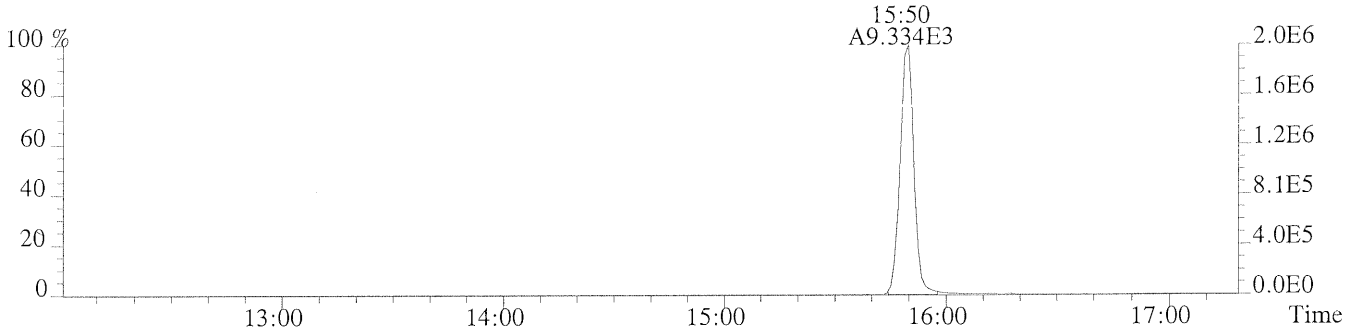
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,26152.0,1.00%,F,T)



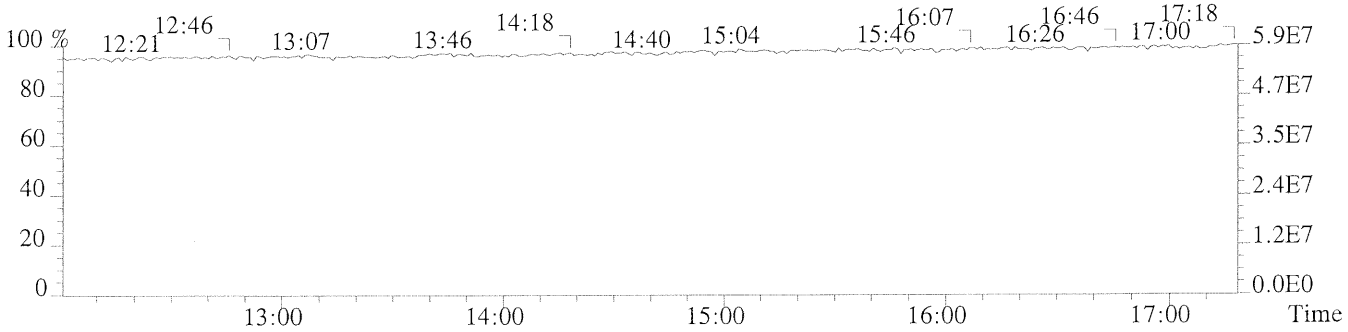
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1320.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1528.0,1.00%,F,T)

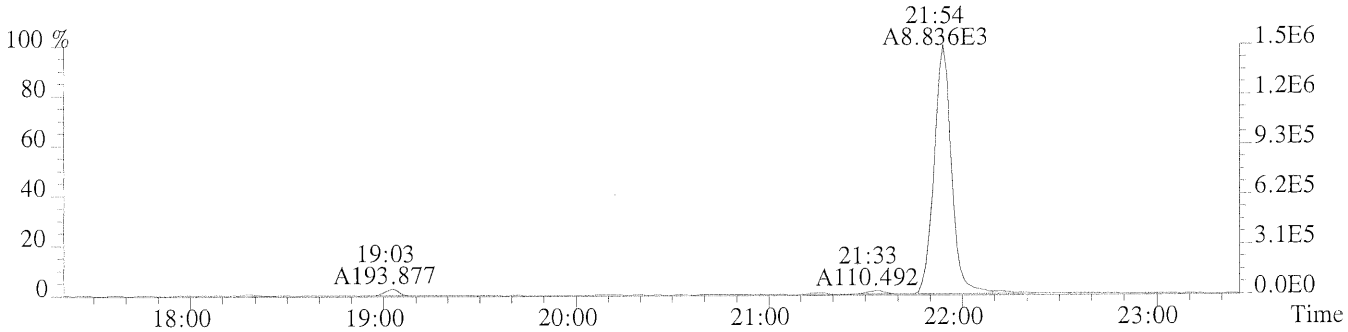


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

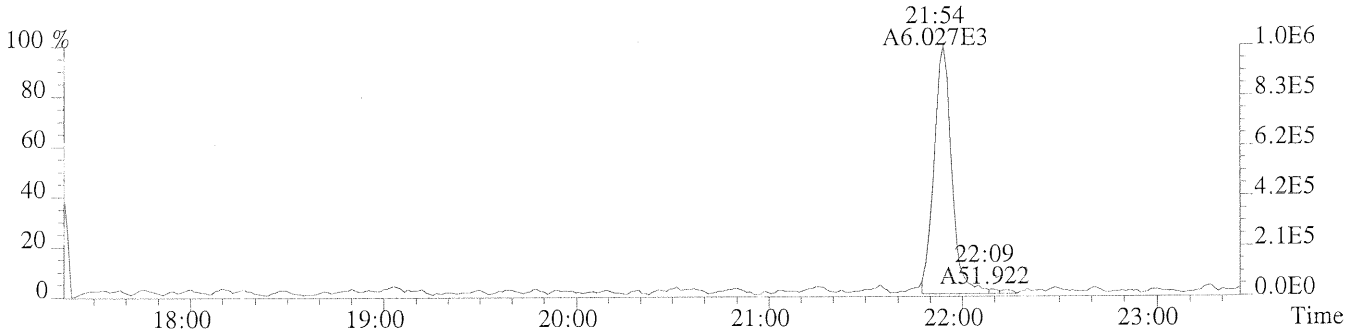


File:U142188 #1-336 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

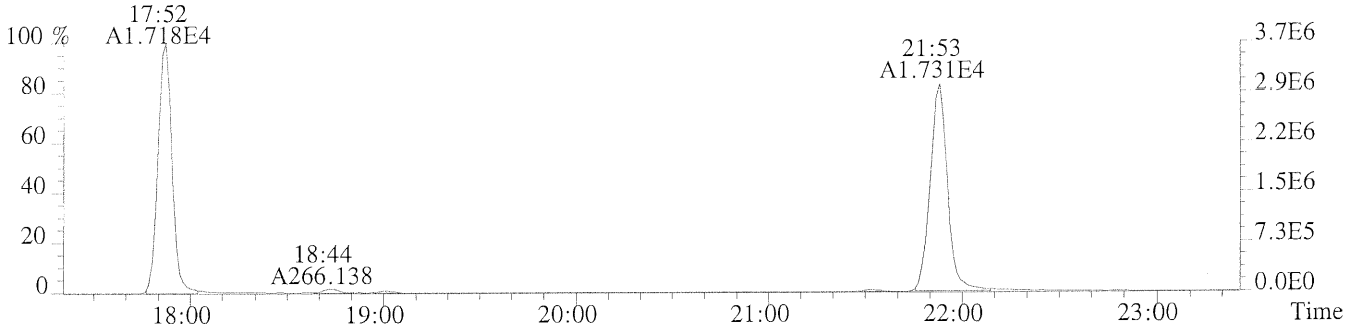
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3024.0,1.00%,F,T)



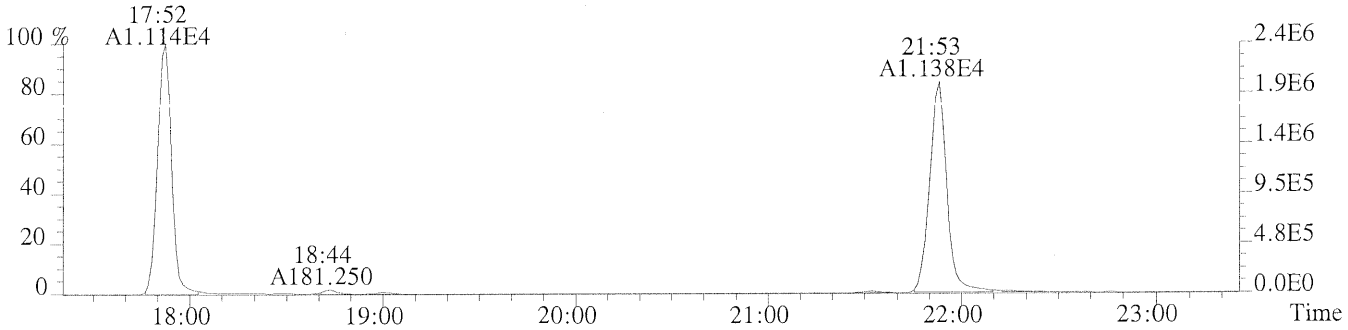
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,28524.0,1.00%,F,T)



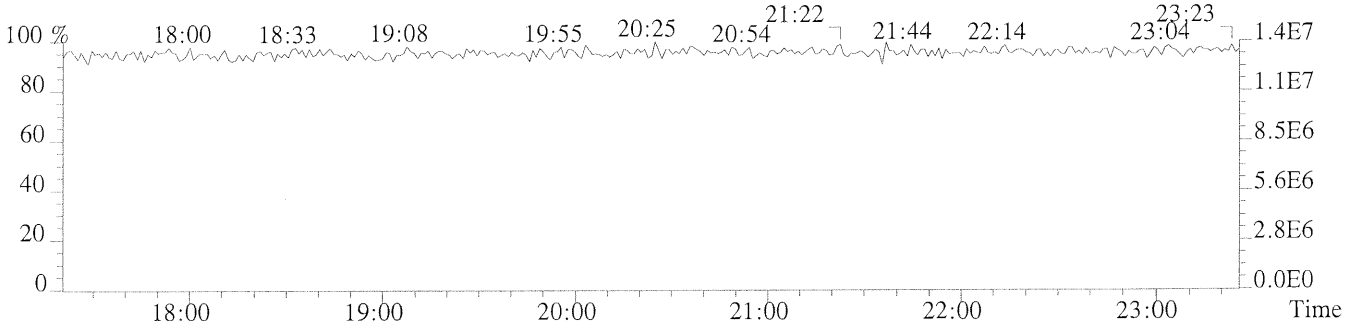
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2348.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1376.0,1.00%,F,T)

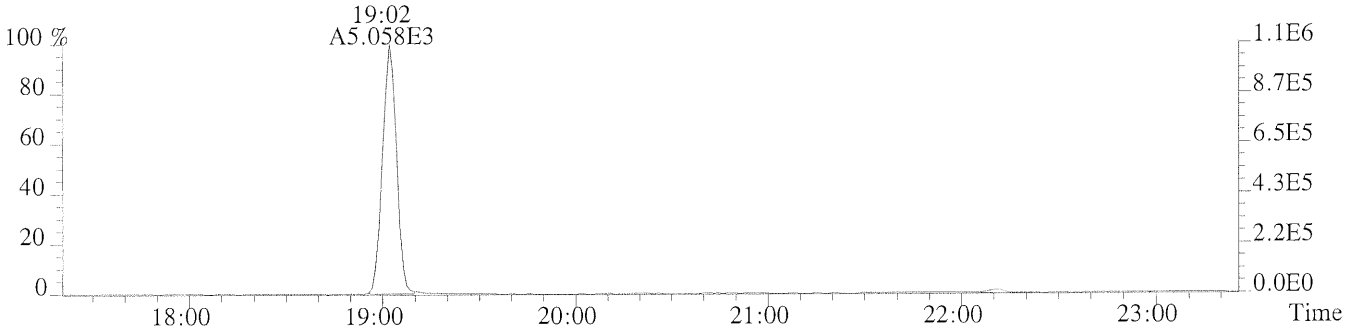


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

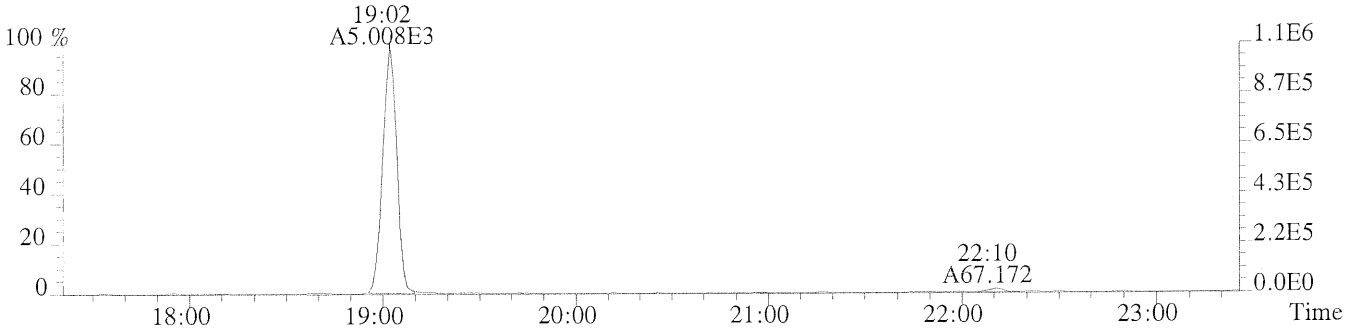


File:U142188 #1-336 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

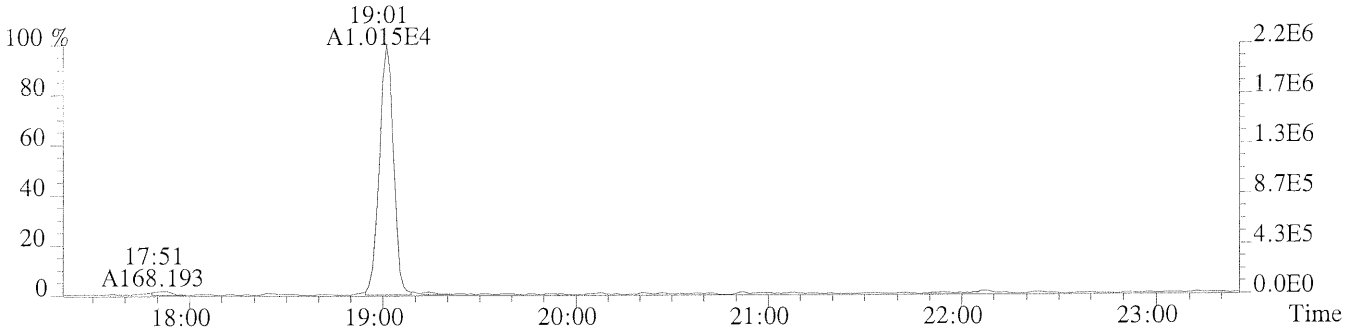
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2136.0,1.00%,F,T)



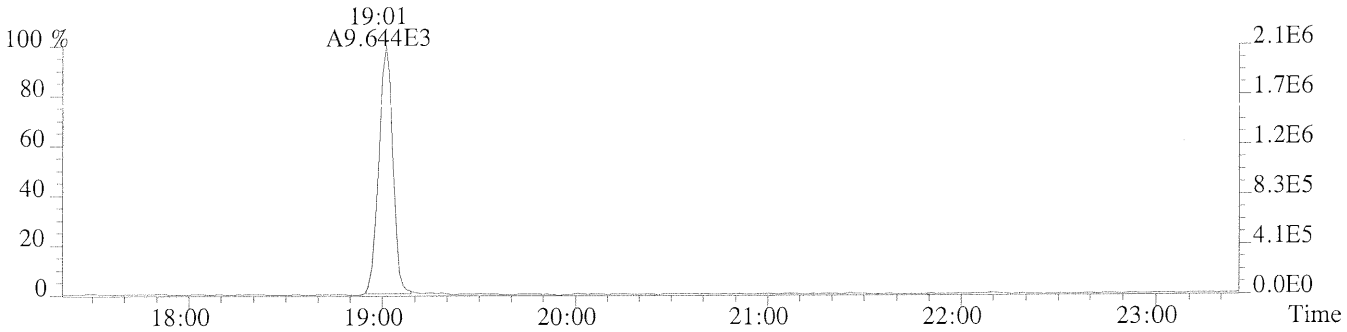
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1428.0,1.00%,F,T)



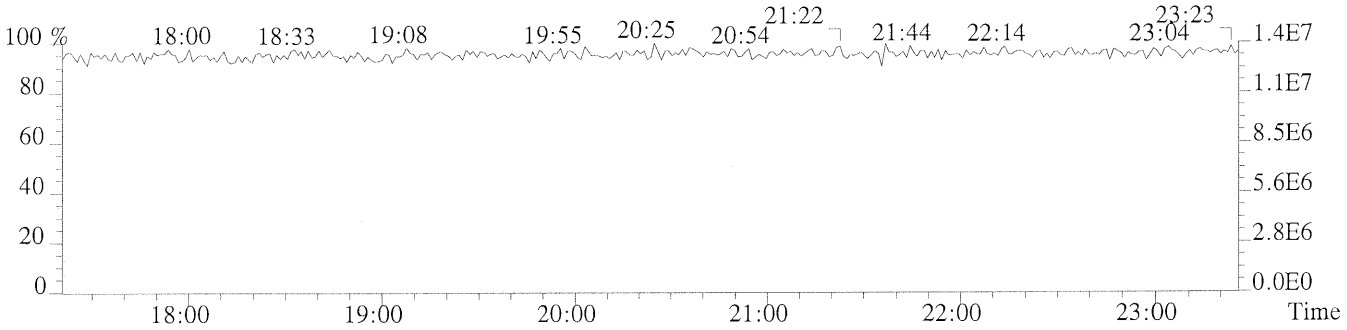
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11096.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10704.0,1.00%,F,T)

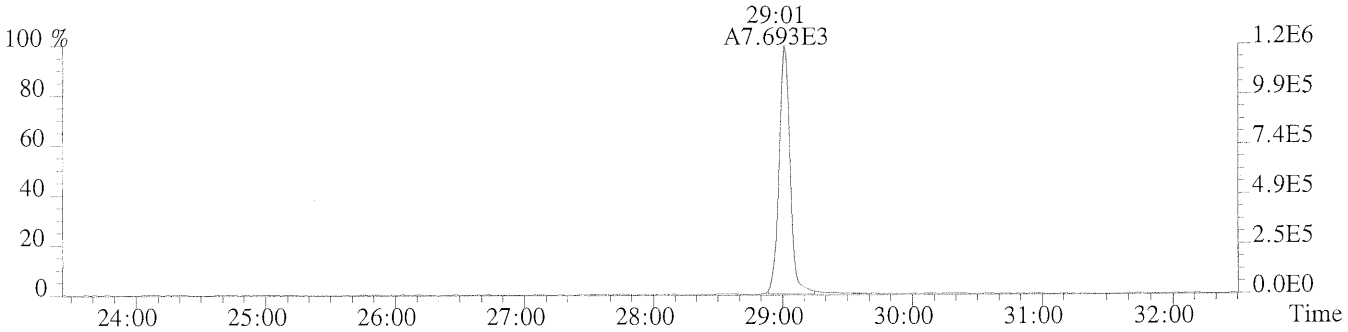


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

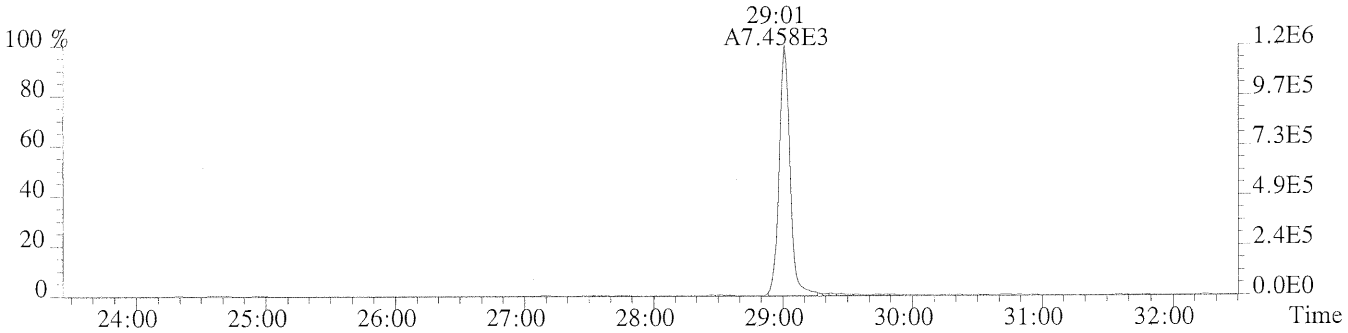


File:U142188 #1-580 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

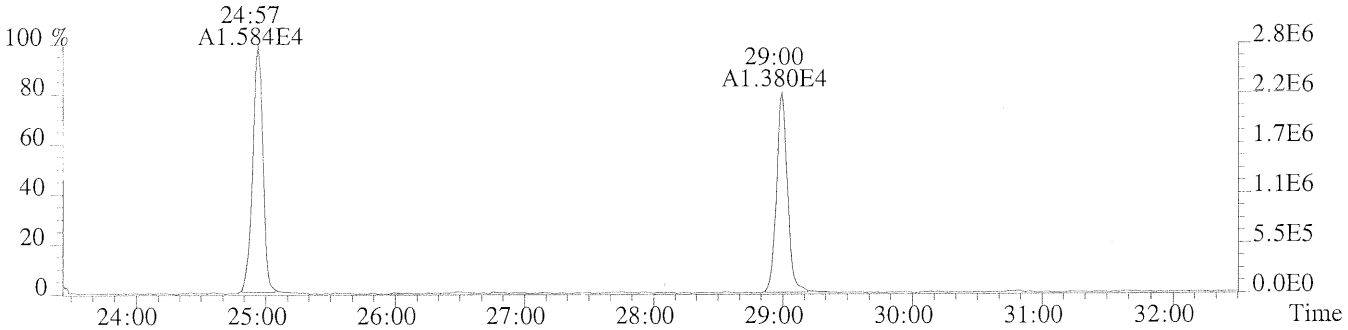
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1764.0,1.00%,F,T)



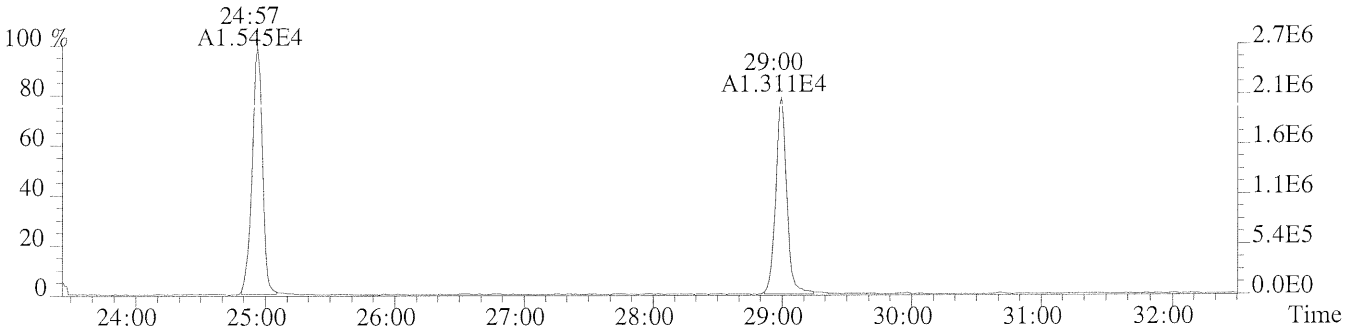
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1296.0,1.00%,F,T)



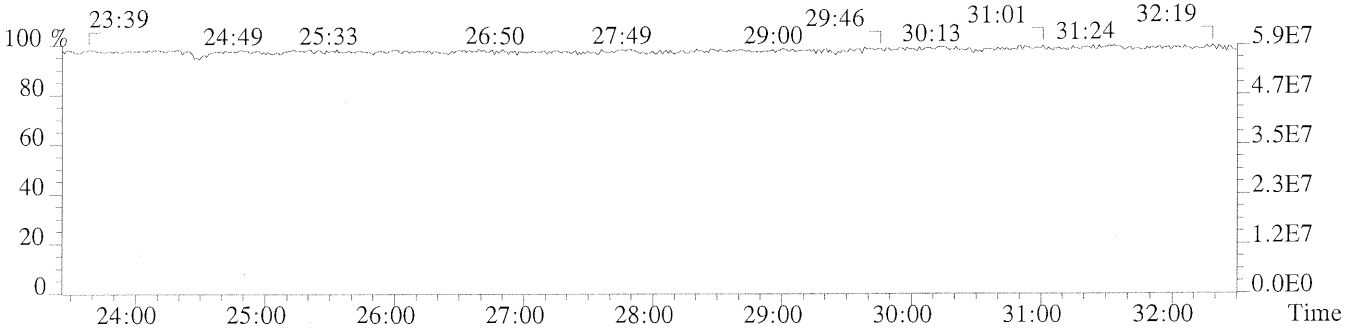
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16364.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11508.0,1.00%,F,T)

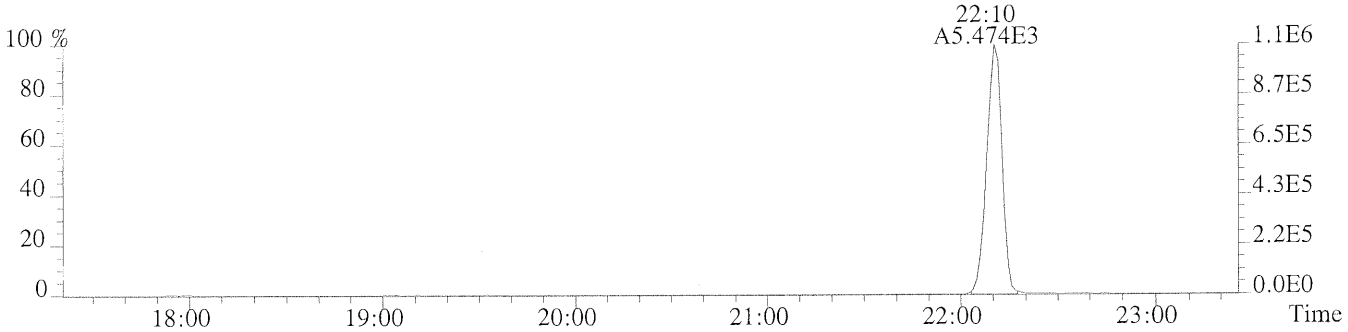


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

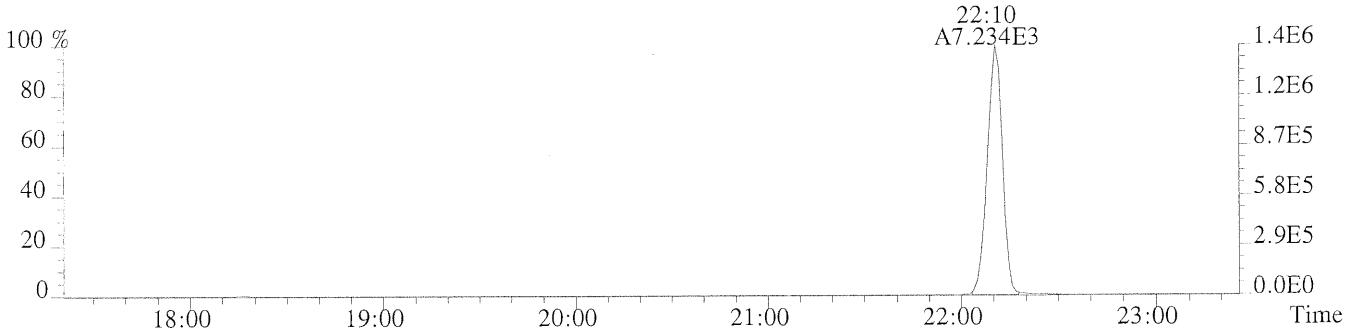


File:U142188 #1-336 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

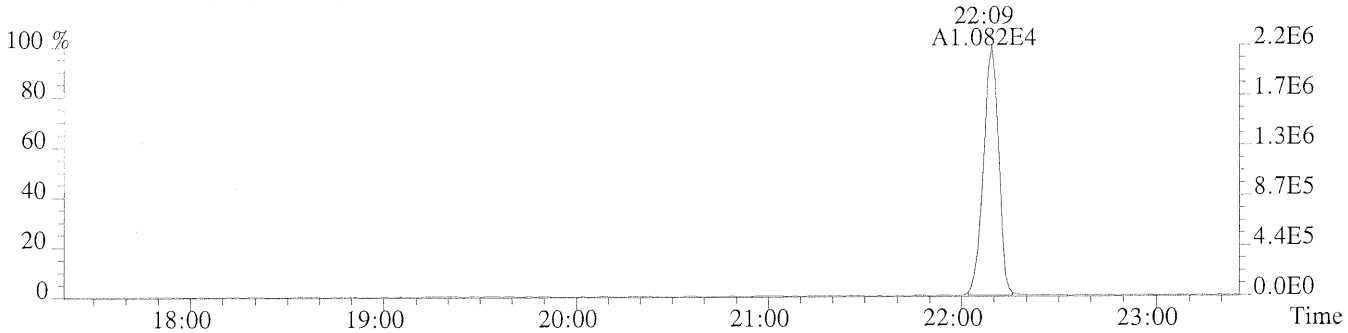
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)



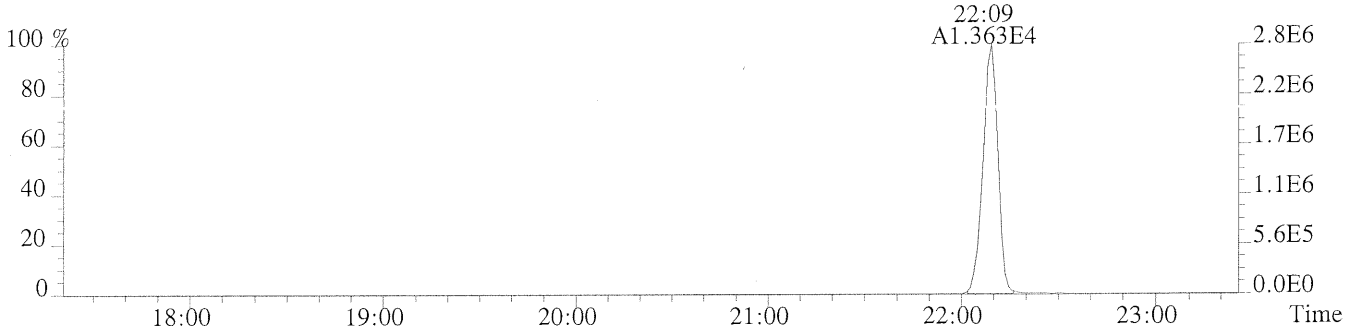
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1136.0,1.00%,F,T)



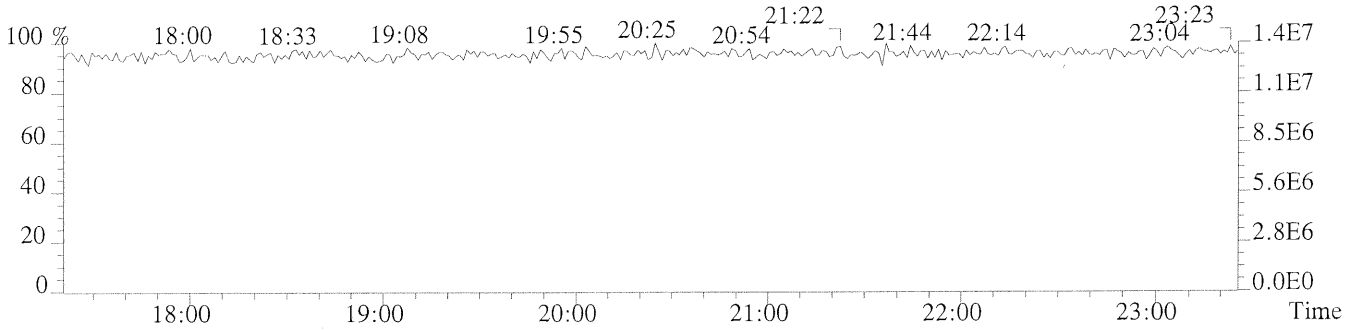
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3636.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1304.0,1.00%,F,T)

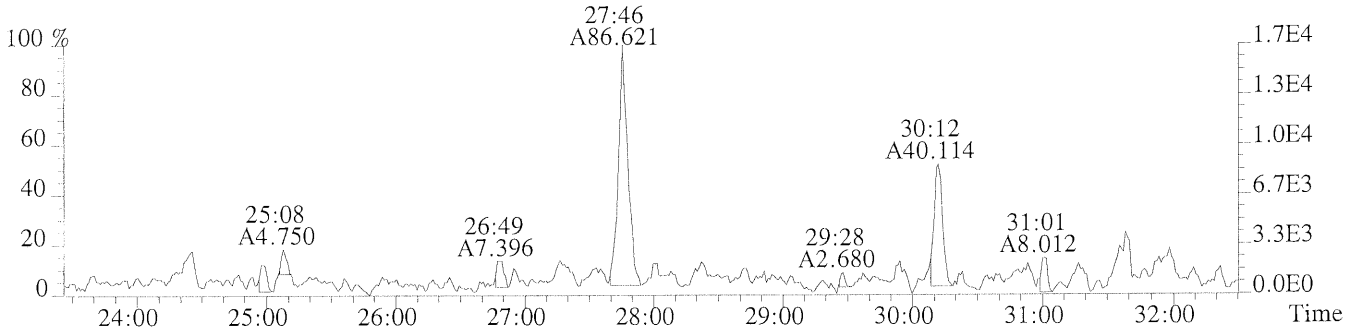


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

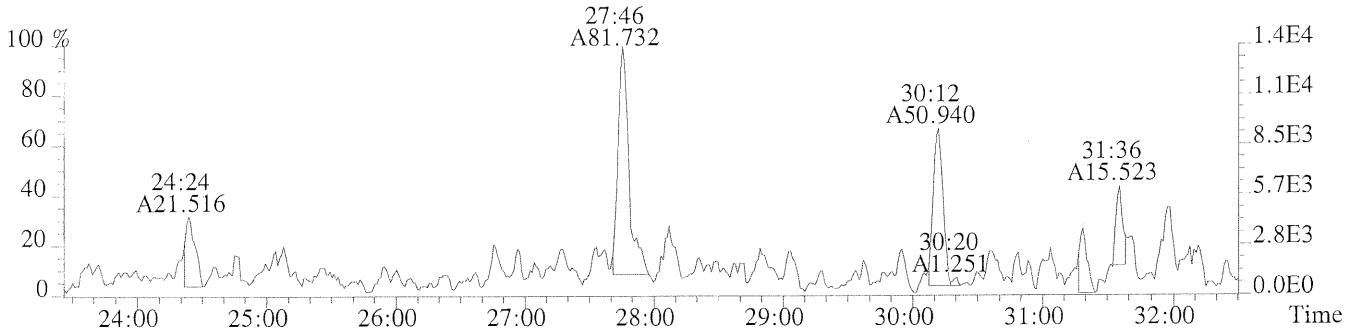


File:U142188 #1-580 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

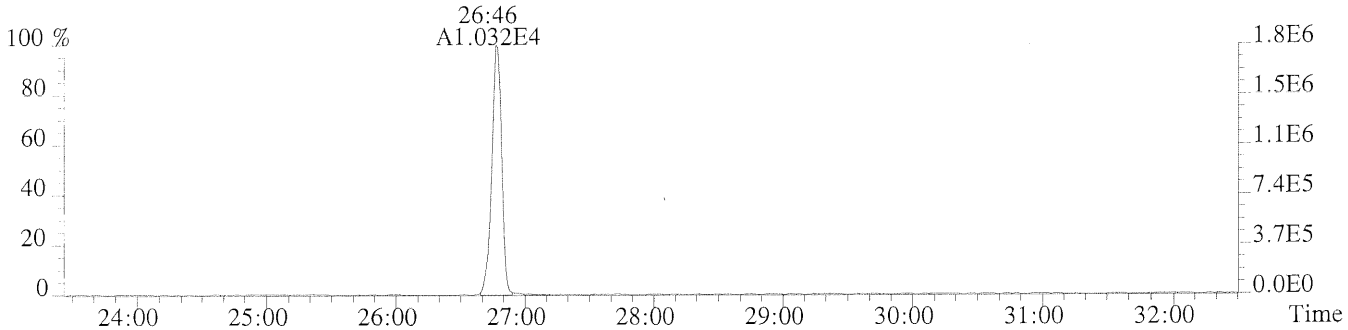
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1148.0,1.00%,F,T)



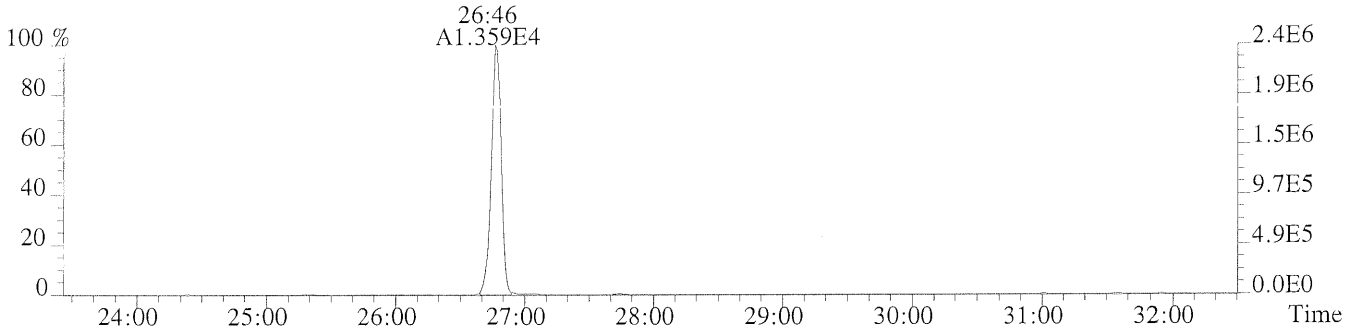
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



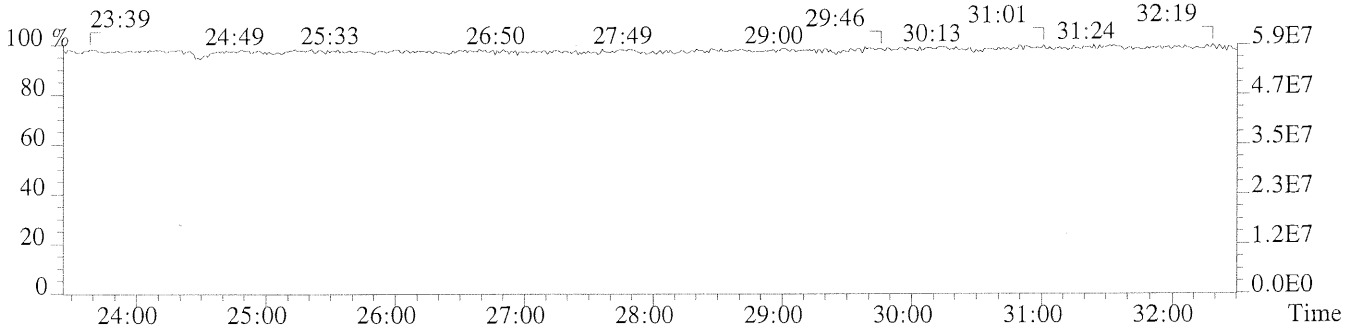
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3084.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1352.0,1.00%,F,T)

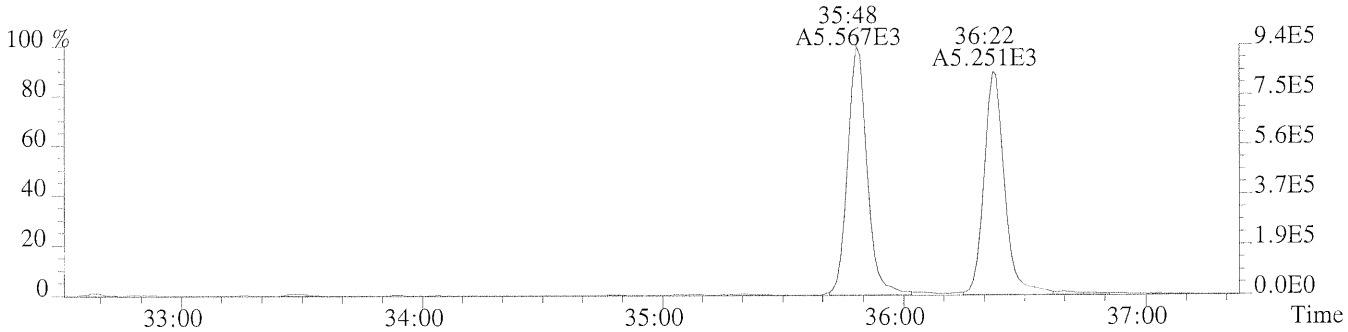


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

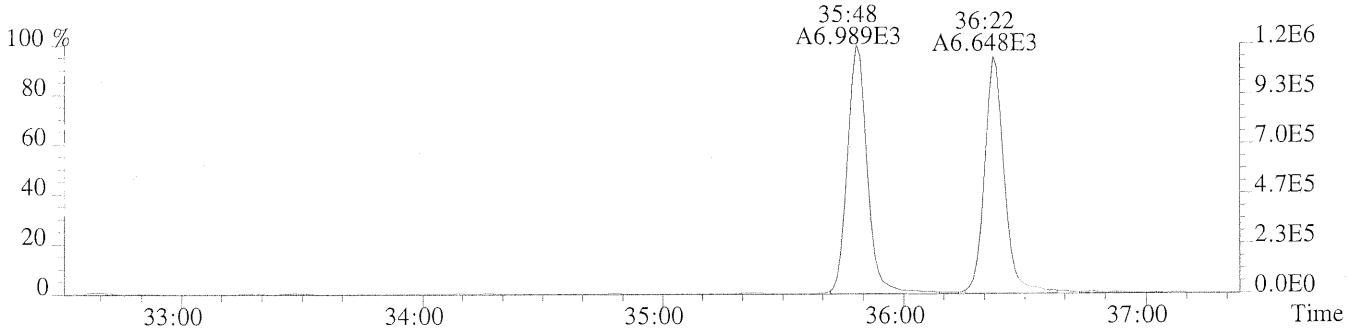


File:U142188 #1-312 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

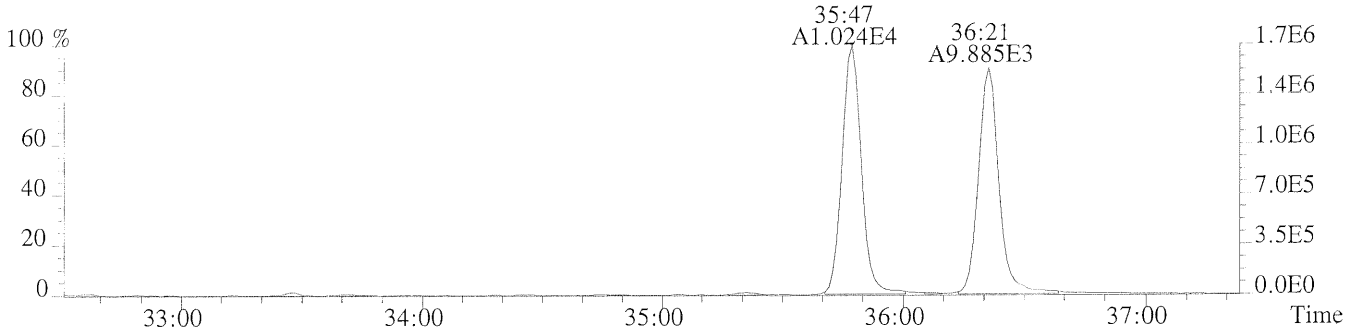
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)



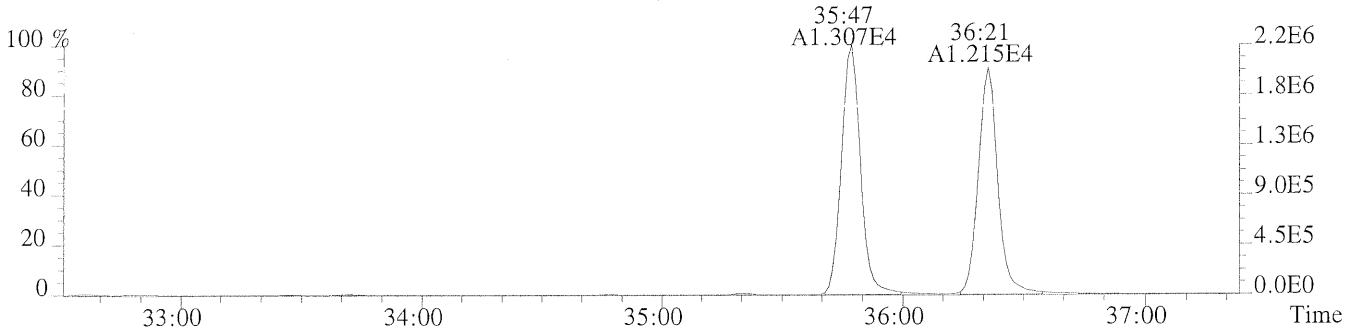
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,908.0,1.00%,F,T)



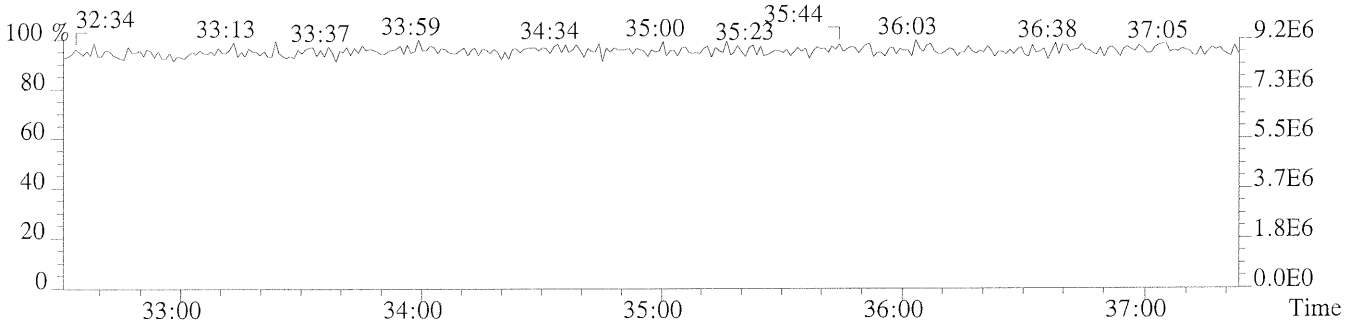
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2188.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1020.0,1.00%,F,T)

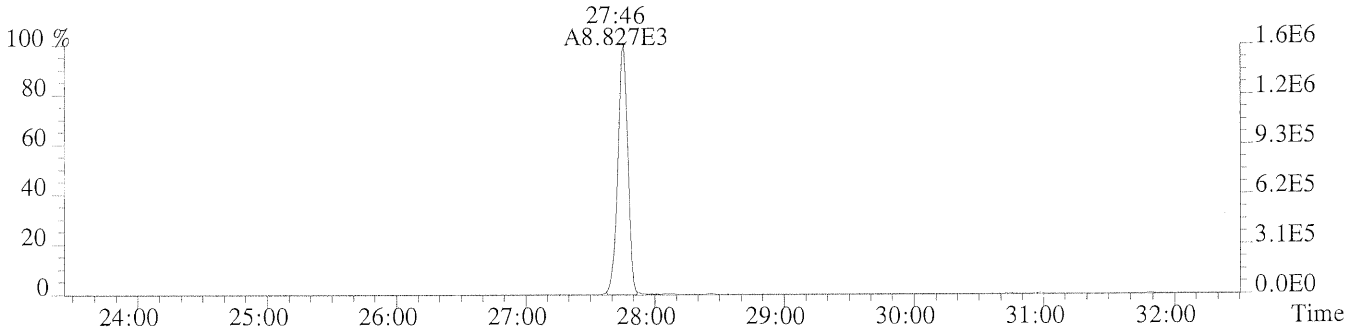


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

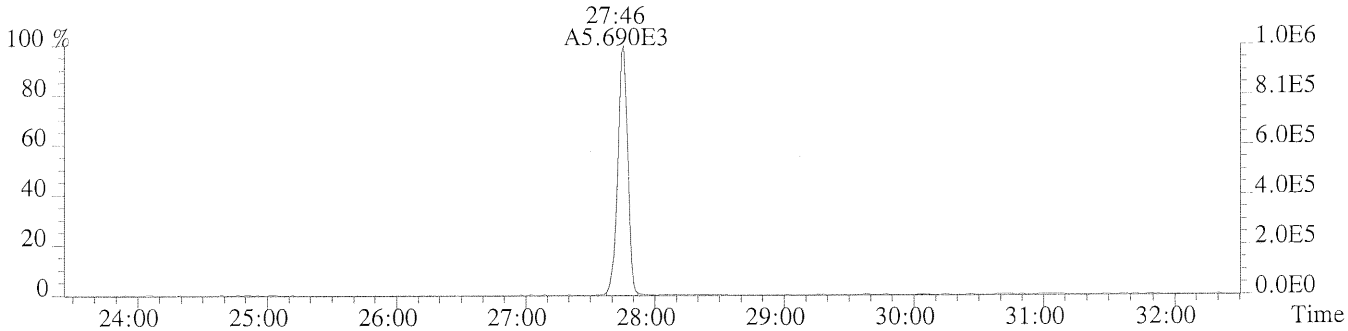


File:U142188 #1-580 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

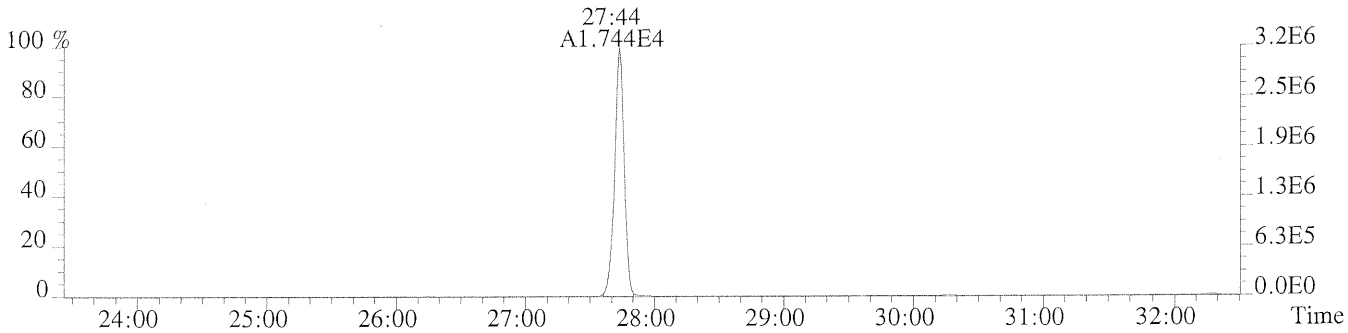
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1108.0,1.00%,F,T)



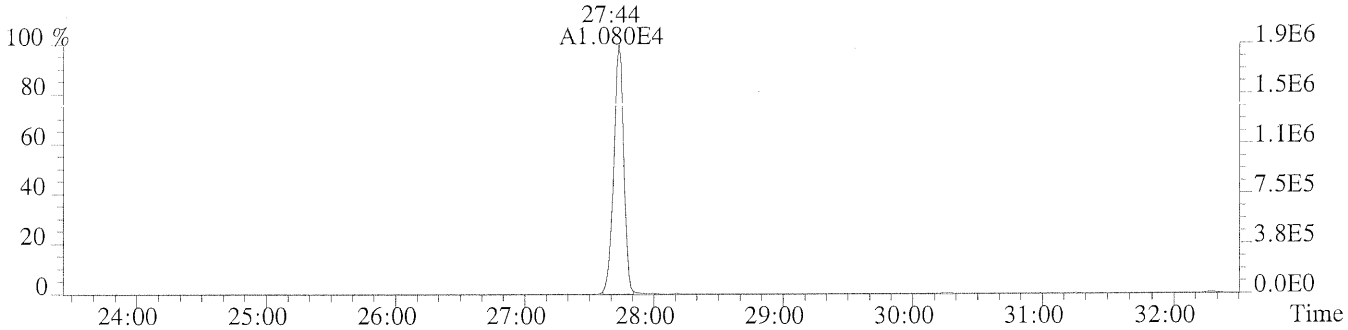
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



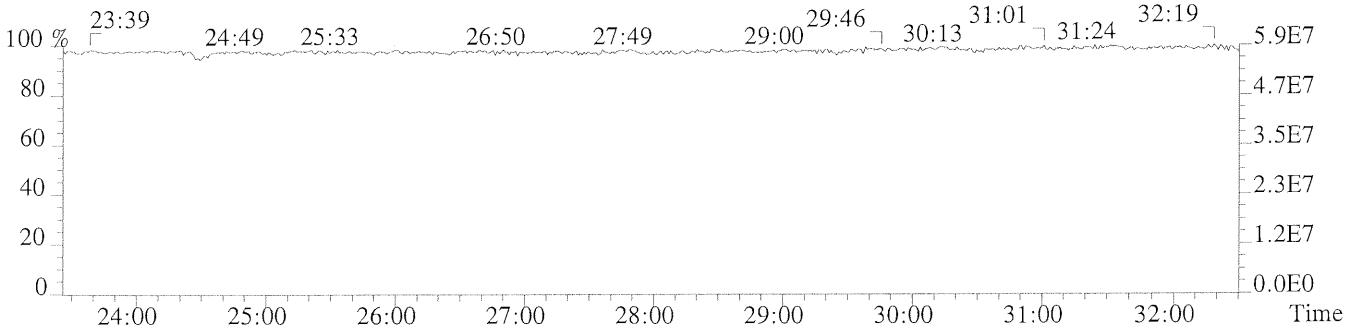
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1144.0,1.00%,F,T)

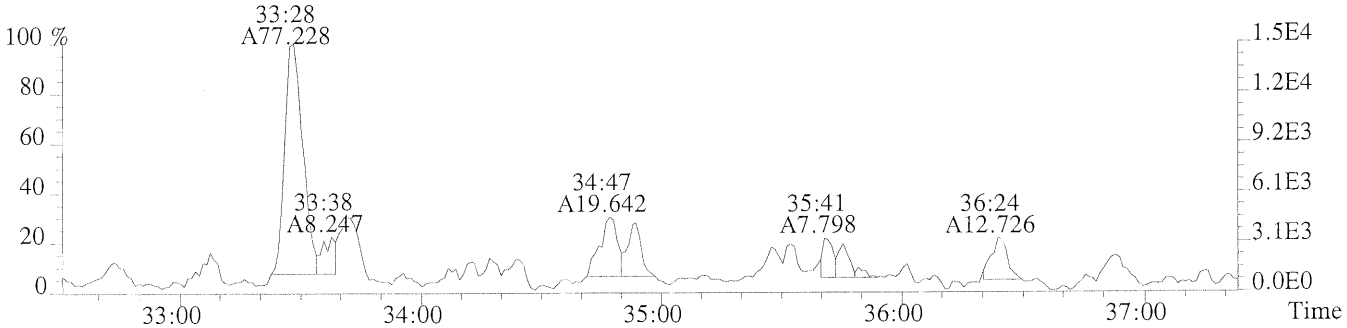


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

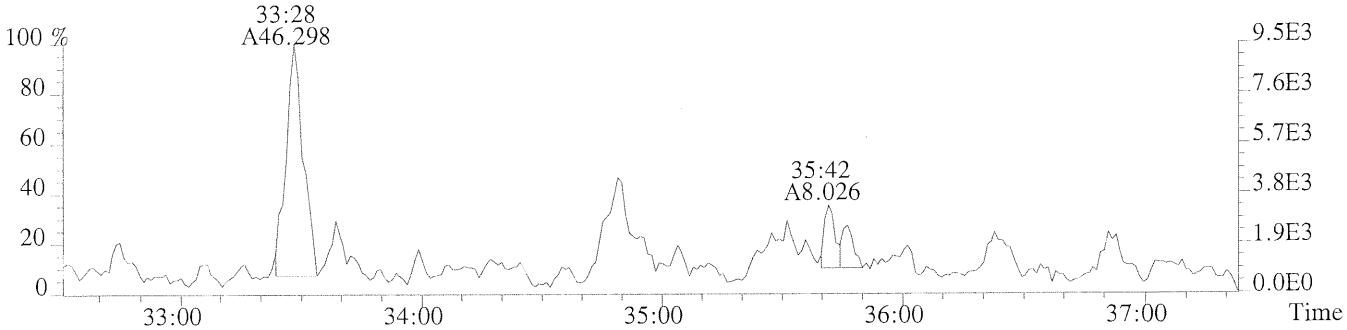


File:U142188 #1-312 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

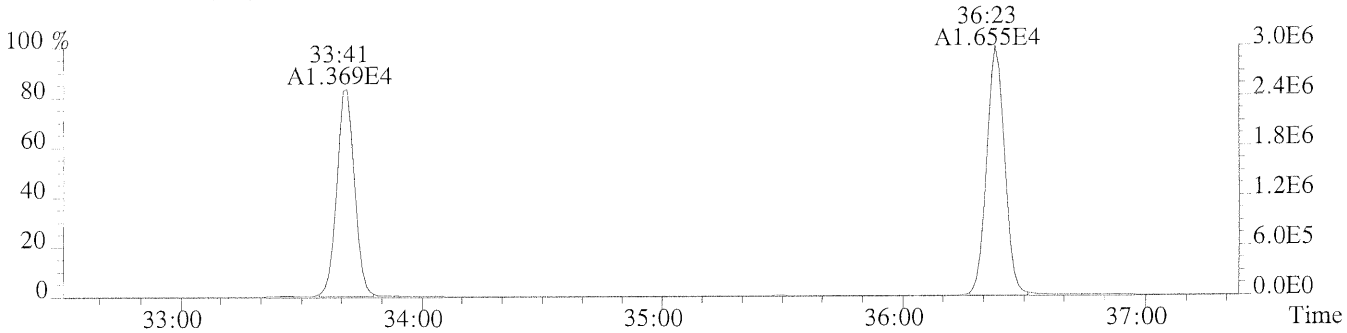
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



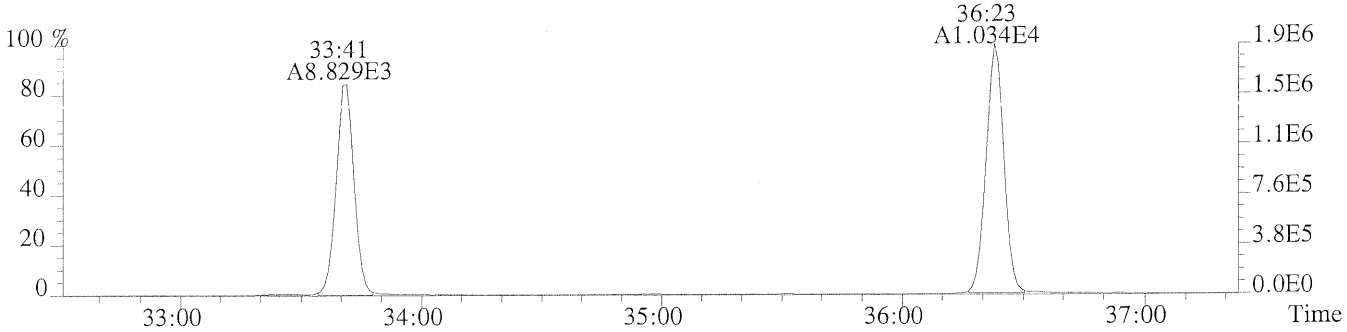
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1048.0,1.00%,F,T)



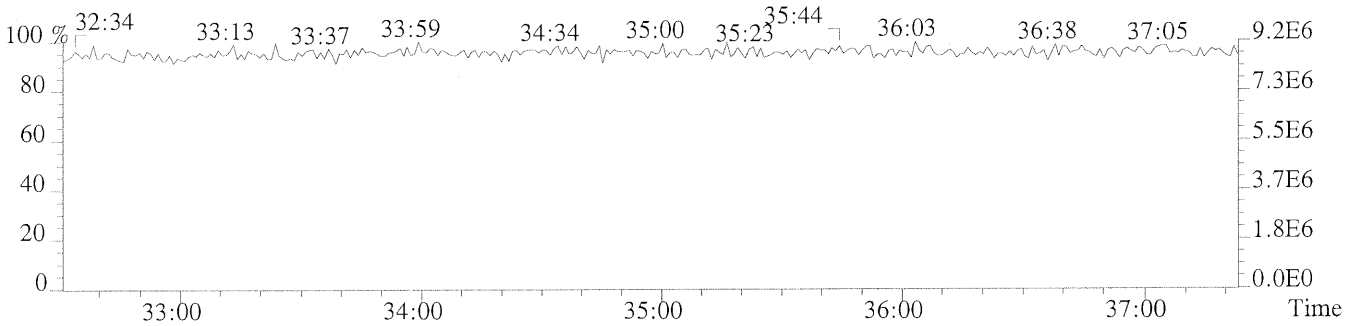
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3084.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1324.0,1.00%,F,T)

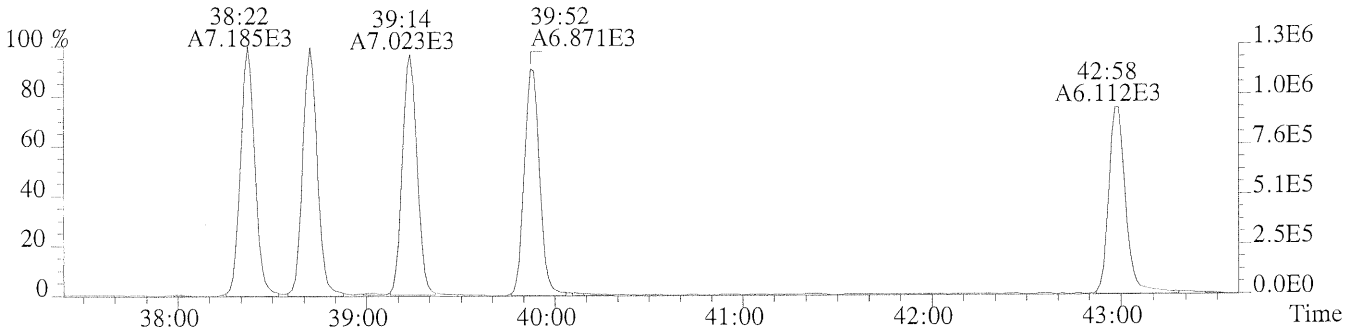


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

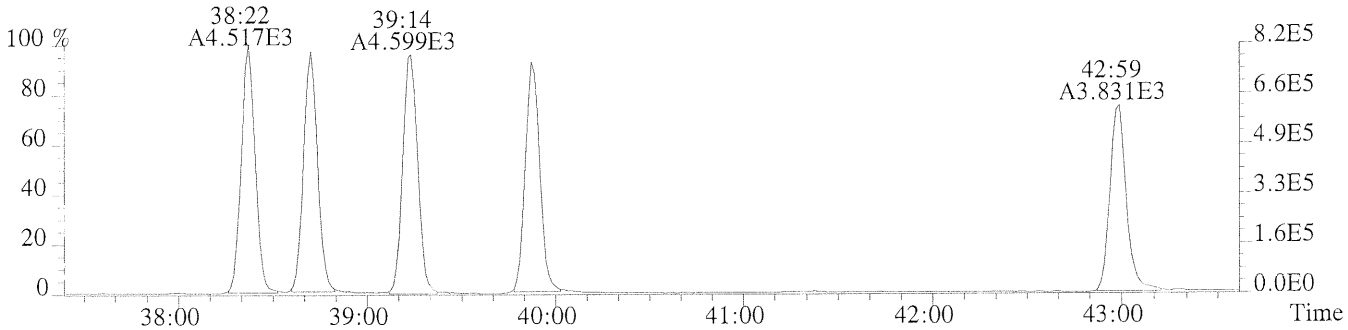


File:U142188 #1-398 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

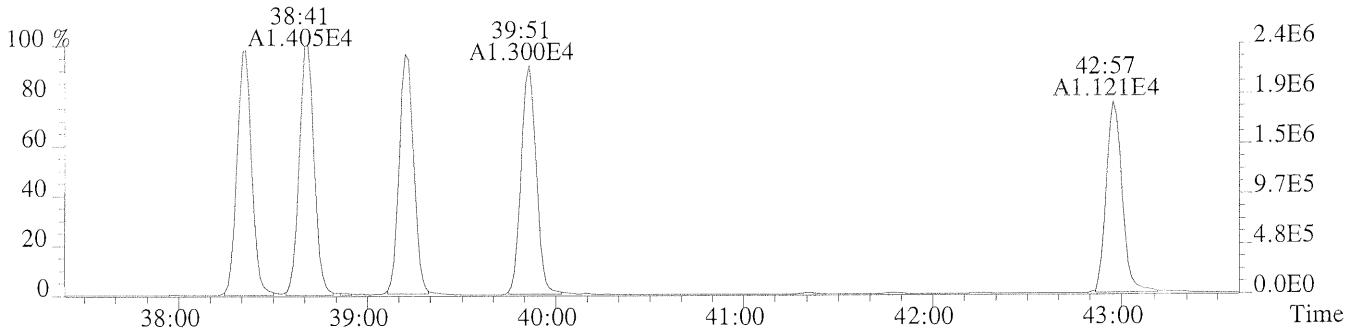
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2584.0,1.00%,F,T)



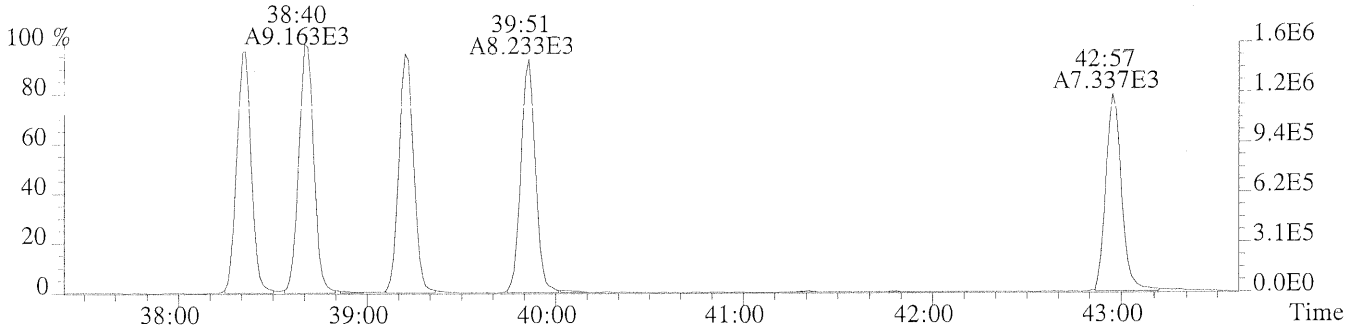
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6196.0,1.00%,F,T)



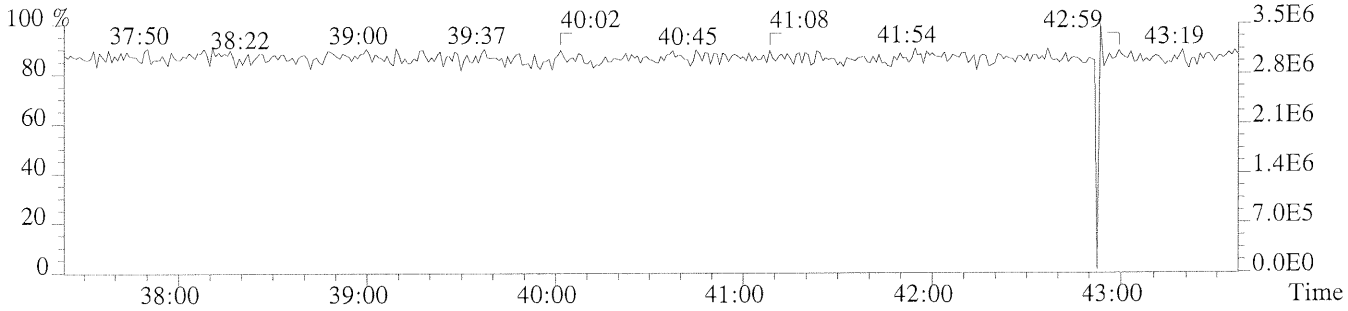
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8620.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3256.0,1.00%,F,T)

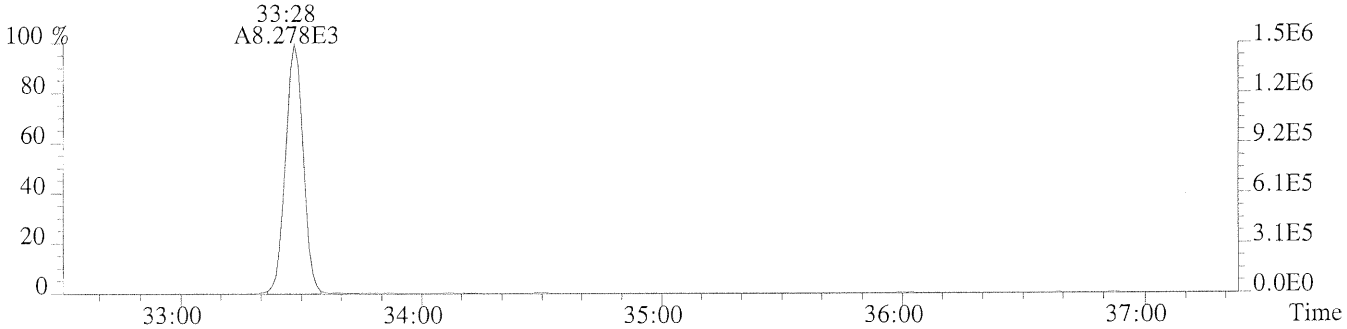


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

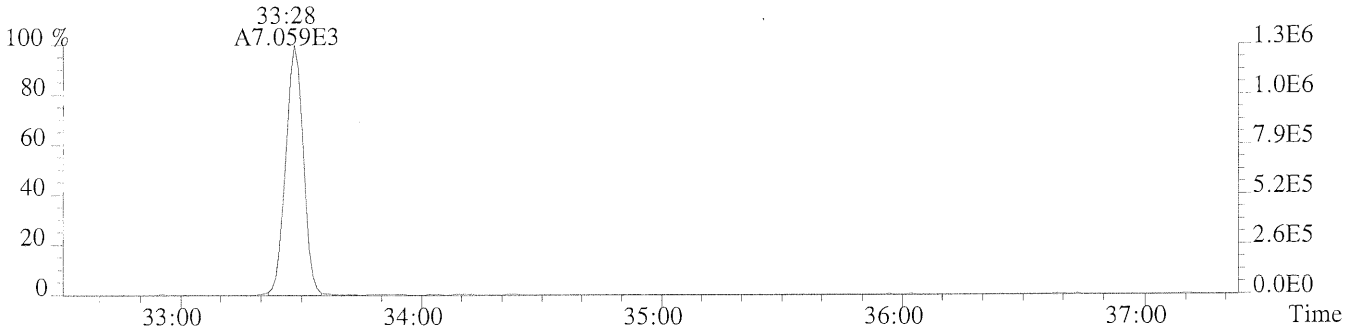


File:U142188 #1-312 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

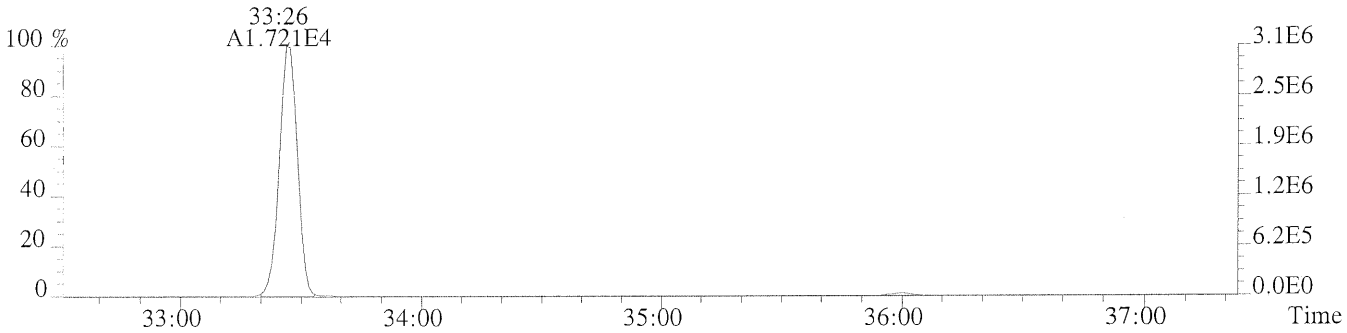
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1460.0,1.00%,F,T)



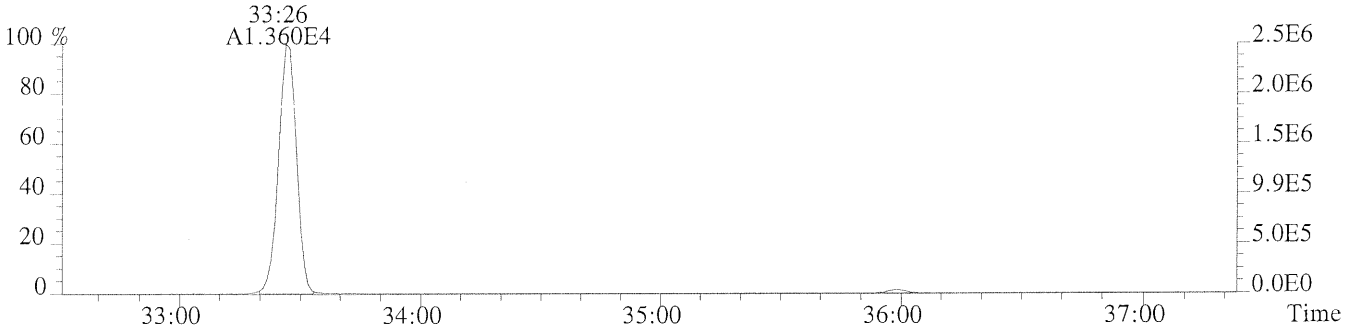
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)



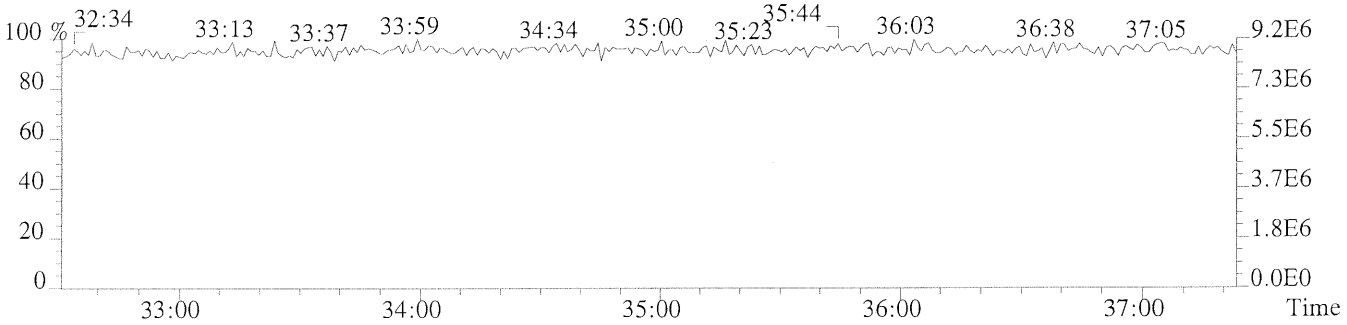
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1076.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)

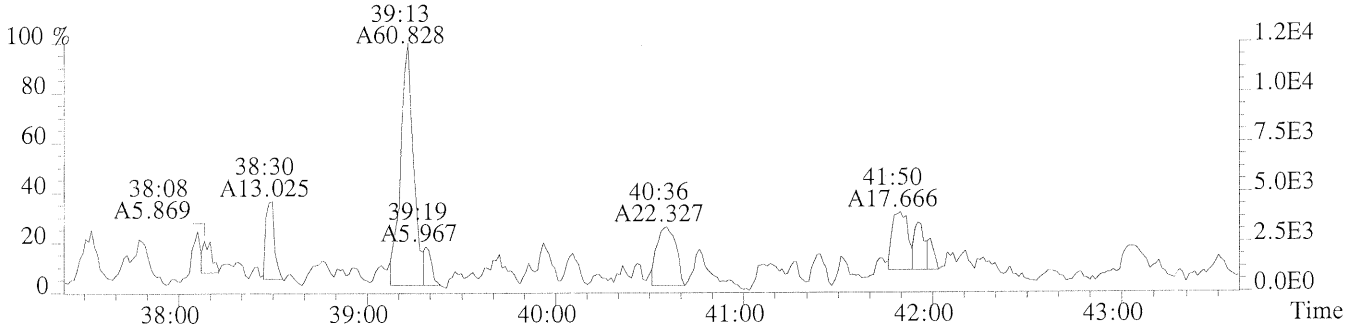


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

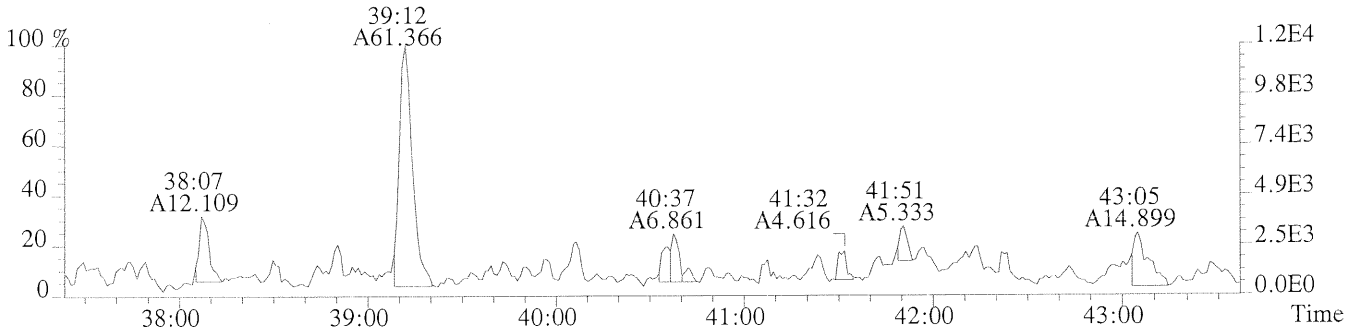


File:U142188 #1-398 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

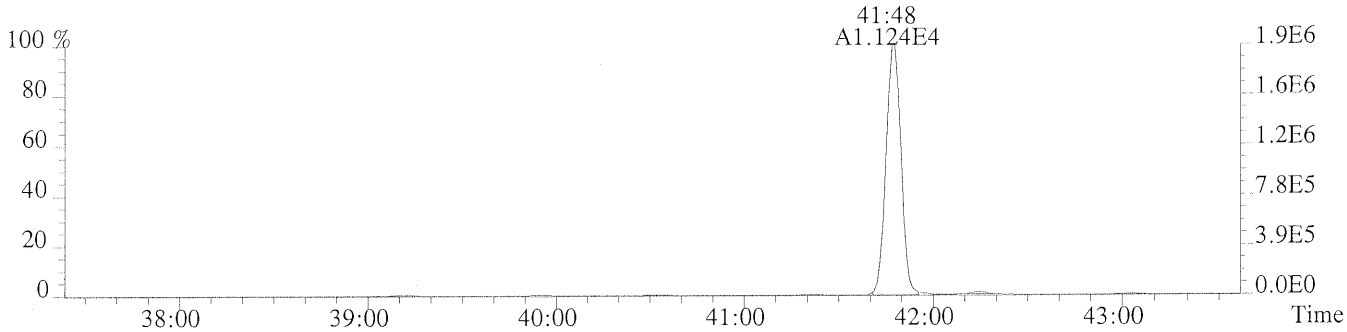
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1188.0,1.00%,F,T)



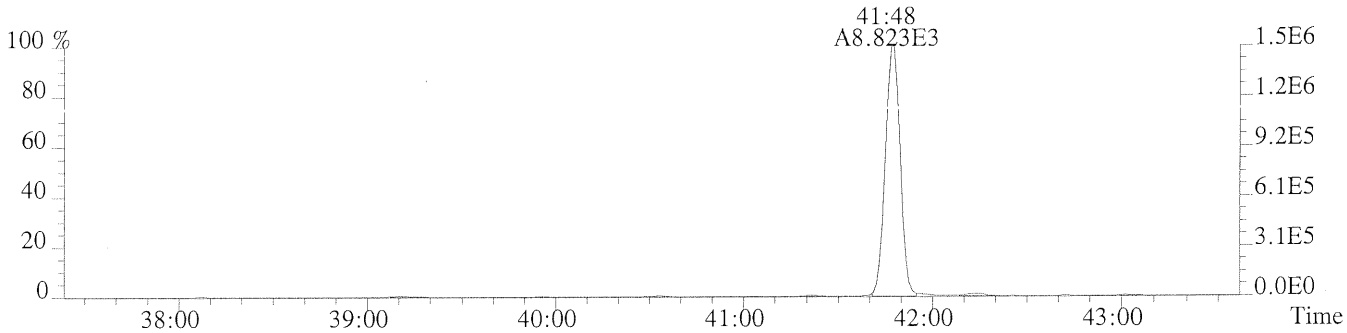
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)



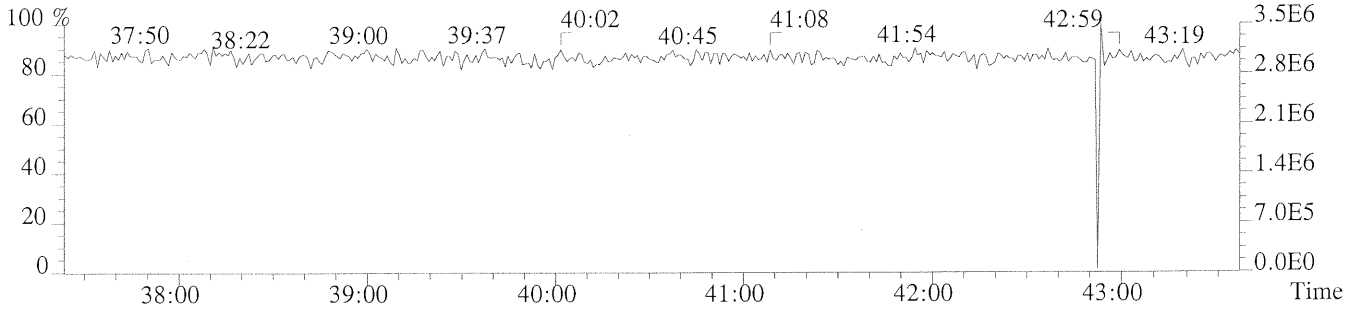
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,988.0,1.00%,F,T)

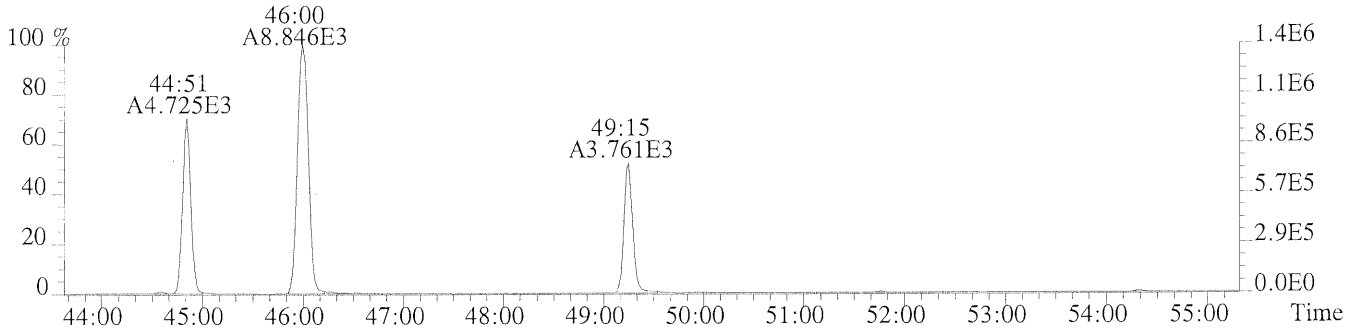


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

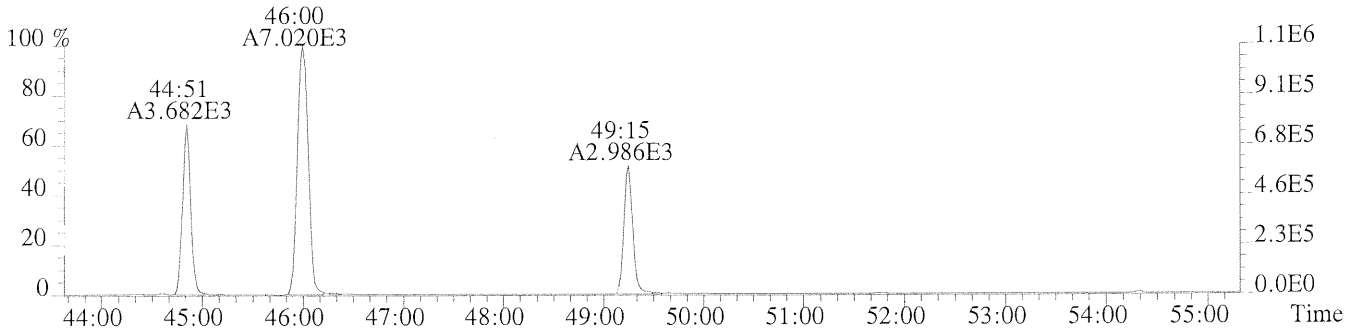


File:U142188 #1-579 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

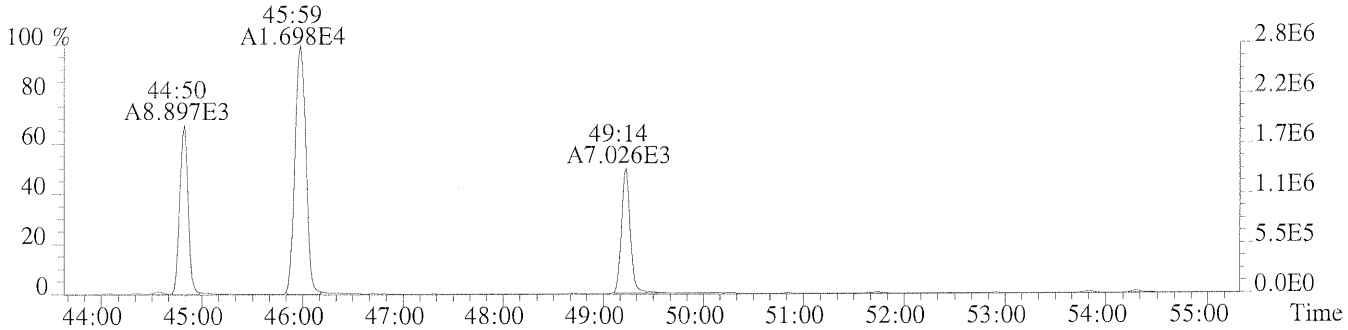
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3780.0,1.00%,F,T)



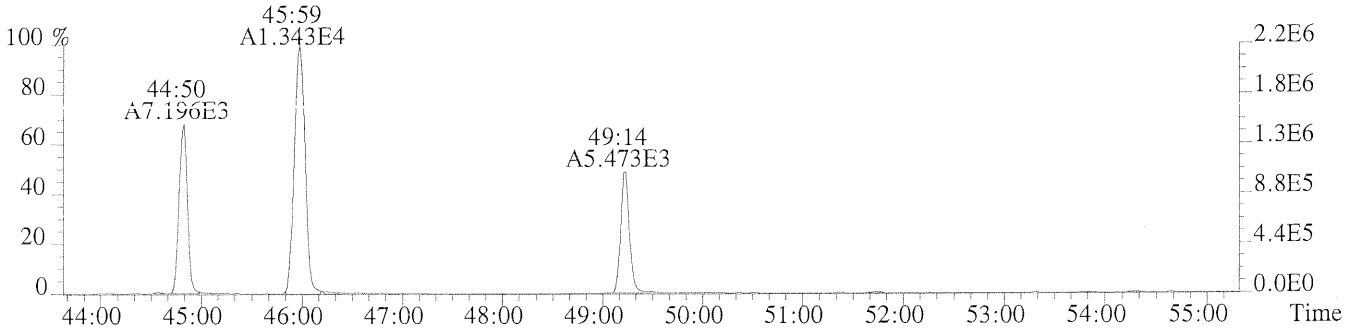
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3652.0,1.00%,F,T)



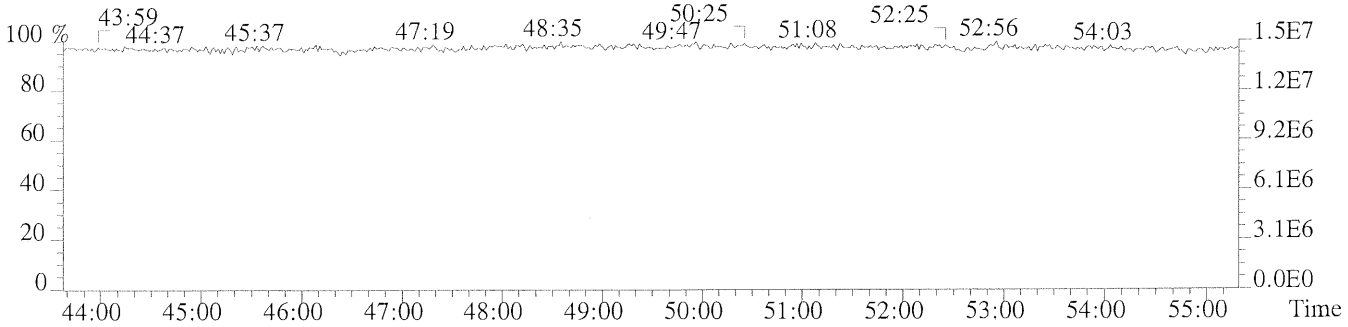
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3208.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2460.0,1.00%,F,T)

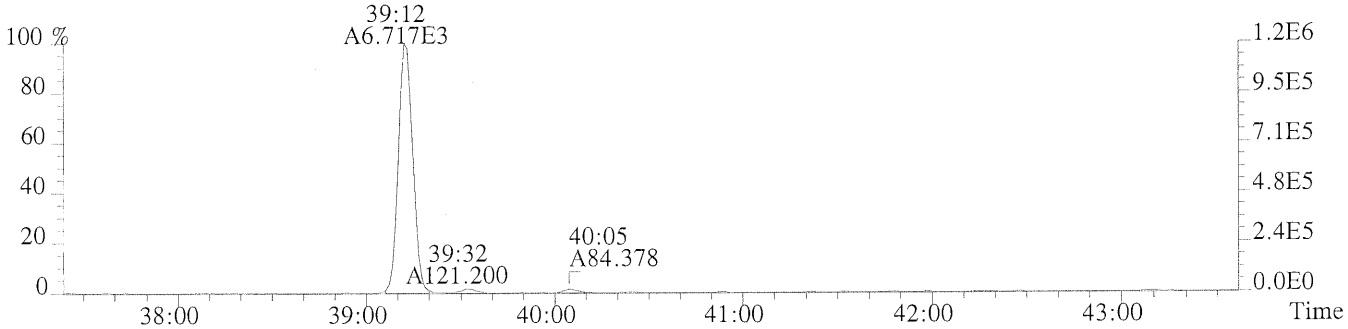


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

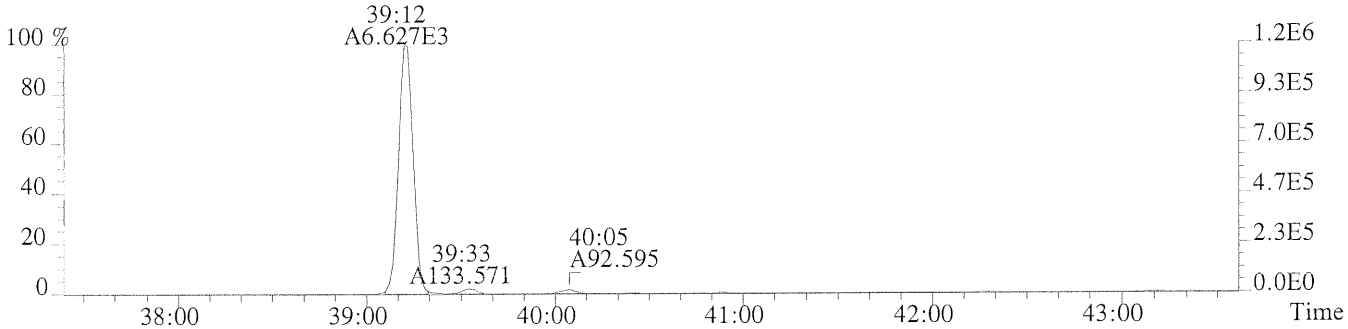


File:U142188 #1-398 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

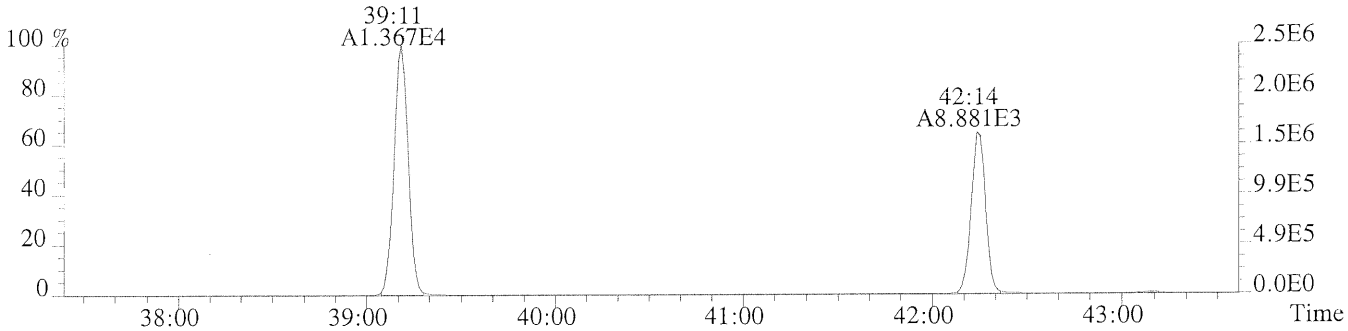
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



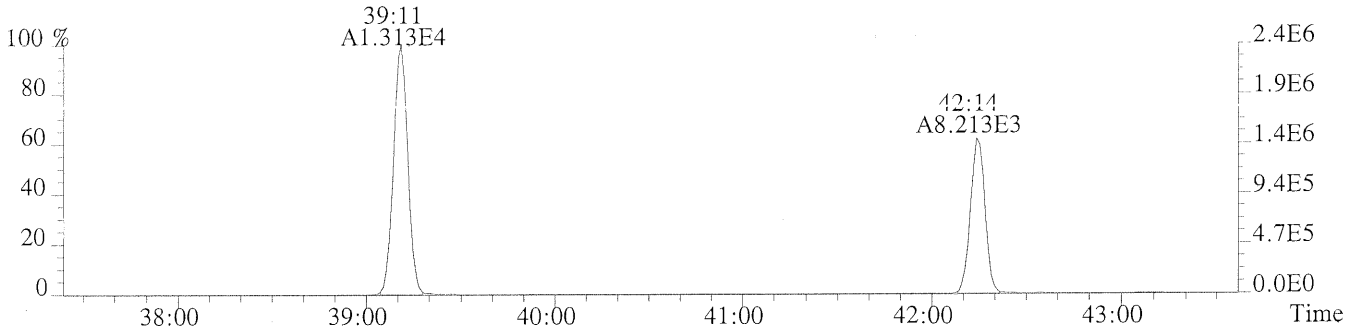
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,404.0,1.00%,F,T)



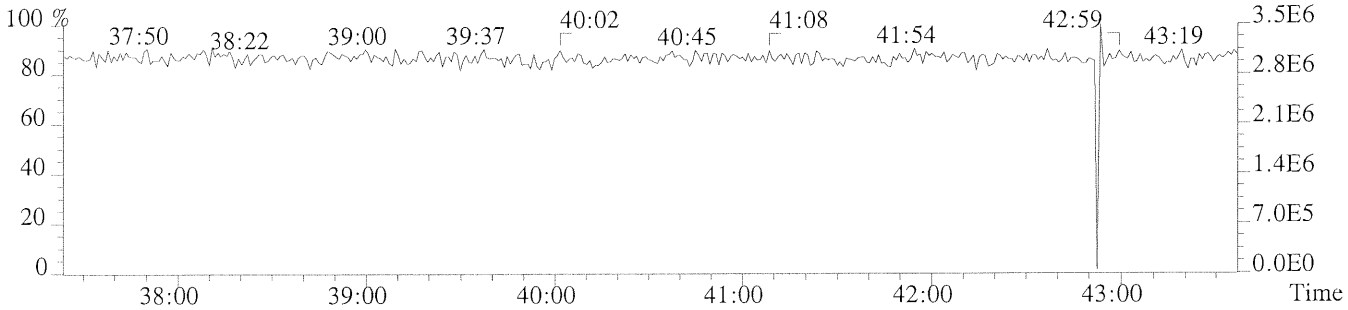
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,856.0,1.00%,F,T)

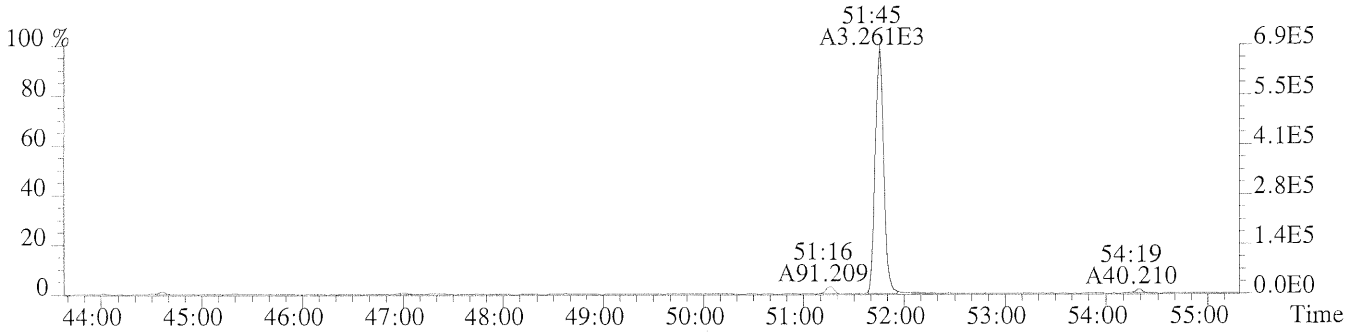


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,T)

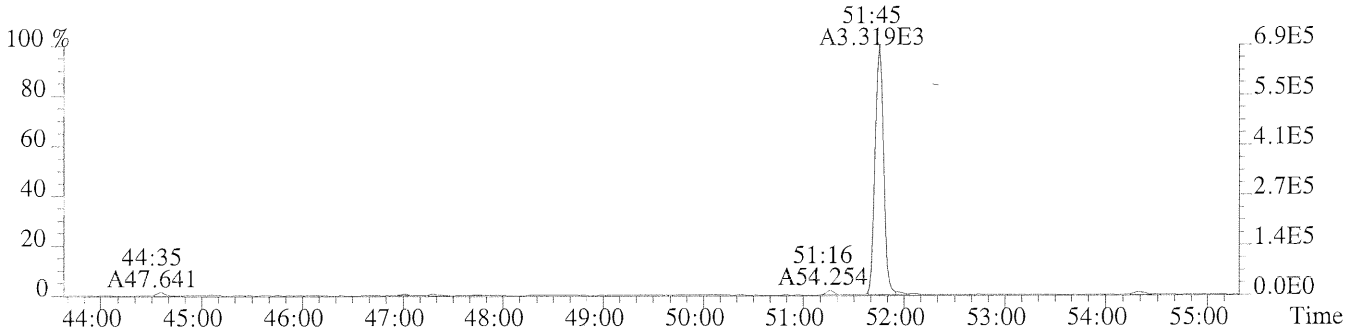


File:U142188 #1-579 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

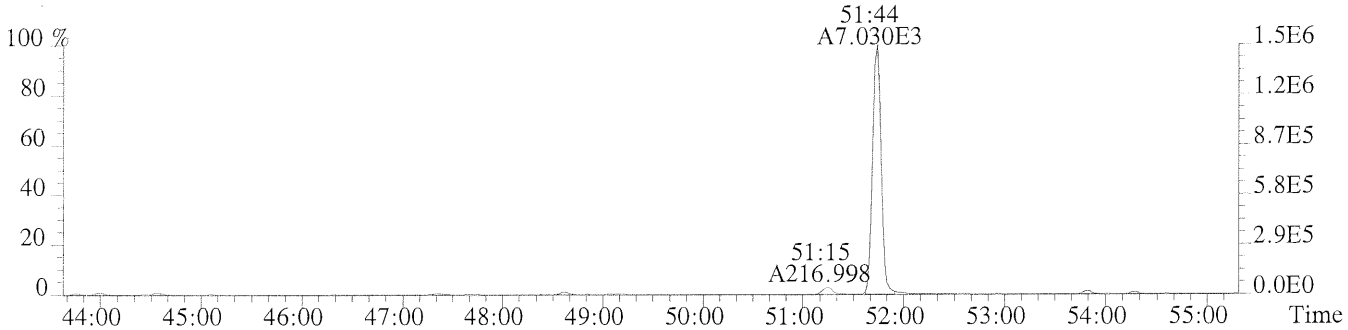
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1664.0,1.00%,F,T)



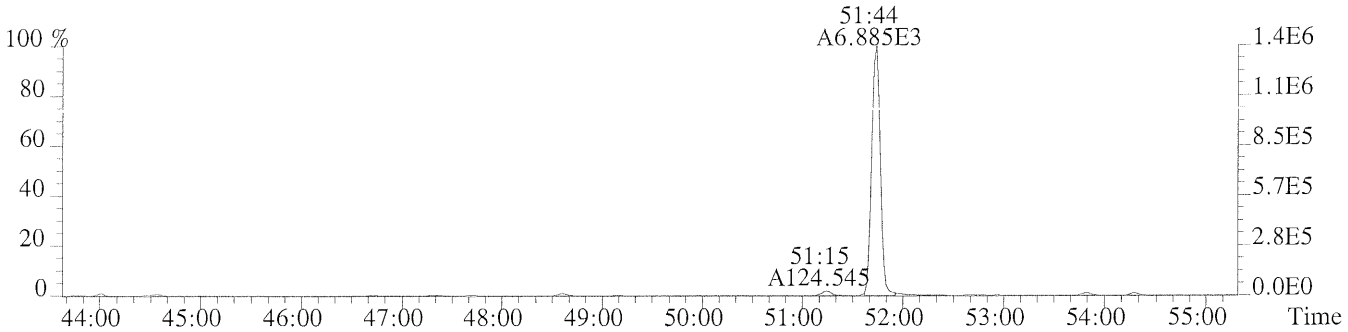
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1336.0,1.00%,F,T)



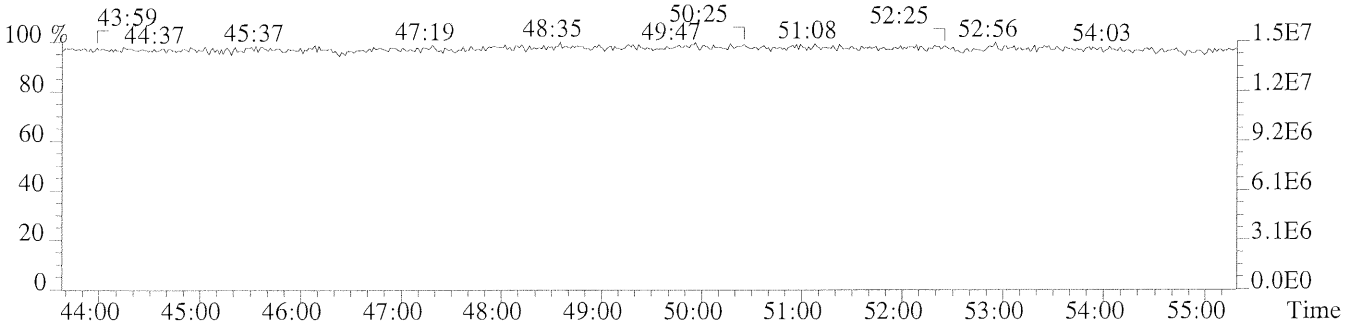
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1228.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1060.0,1.00%,F,T)

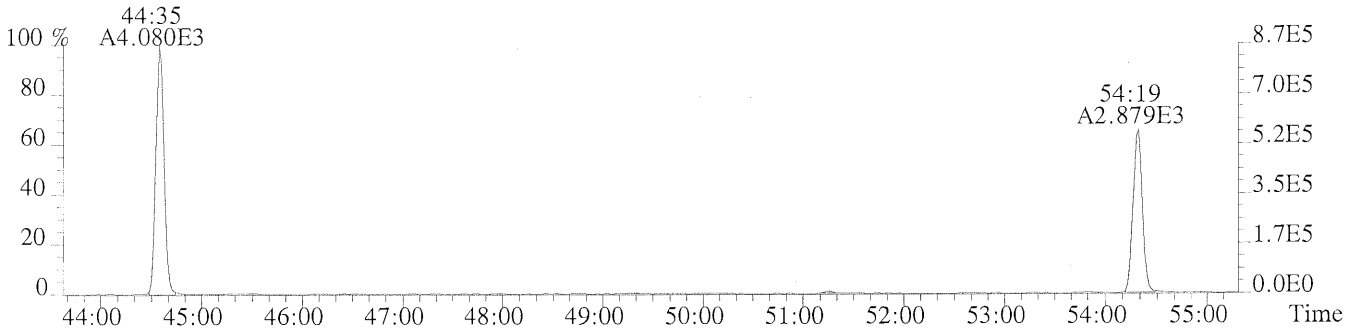


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

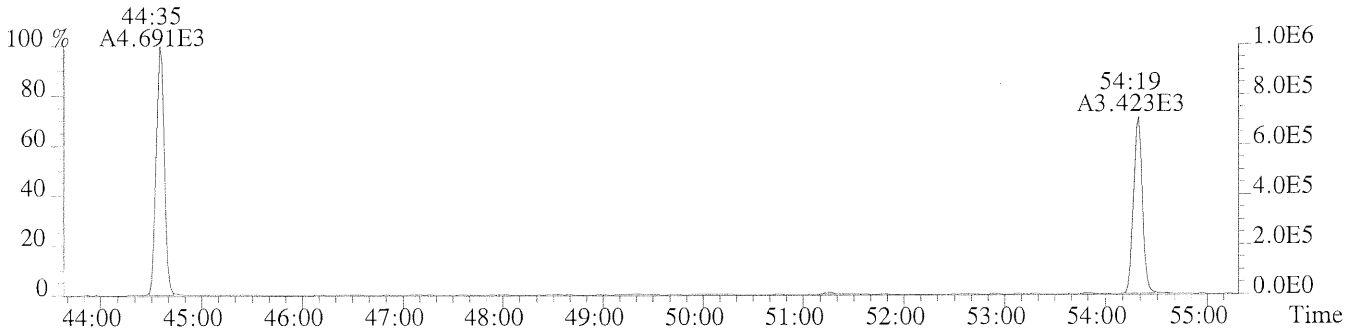


File:U142188 #1-579 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

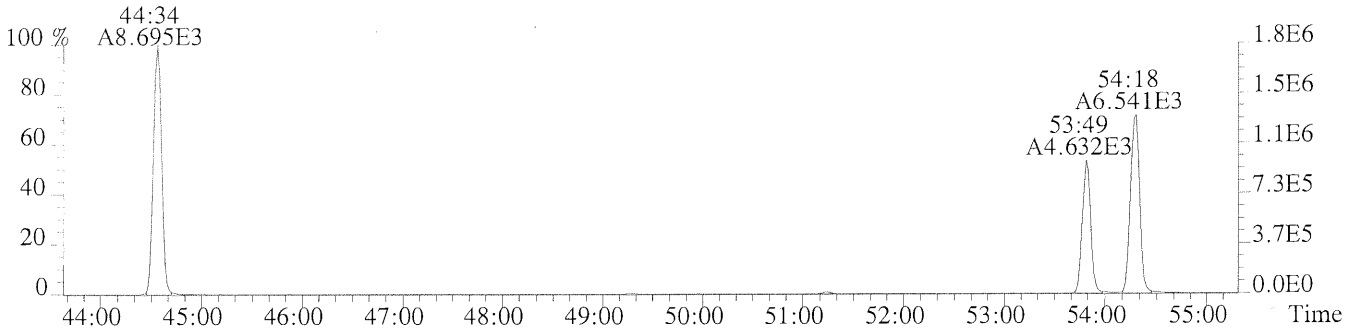
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1400.0,1.00%,F,T)



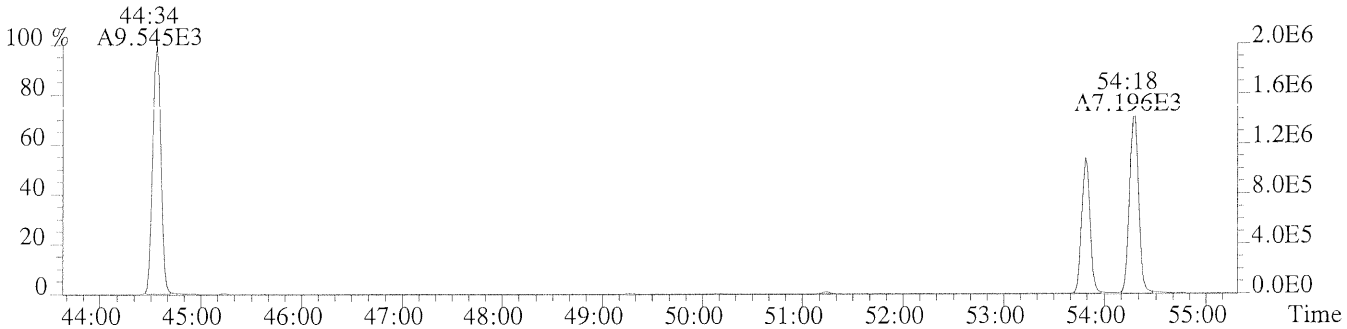
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1564.0,1.00%,F,T)



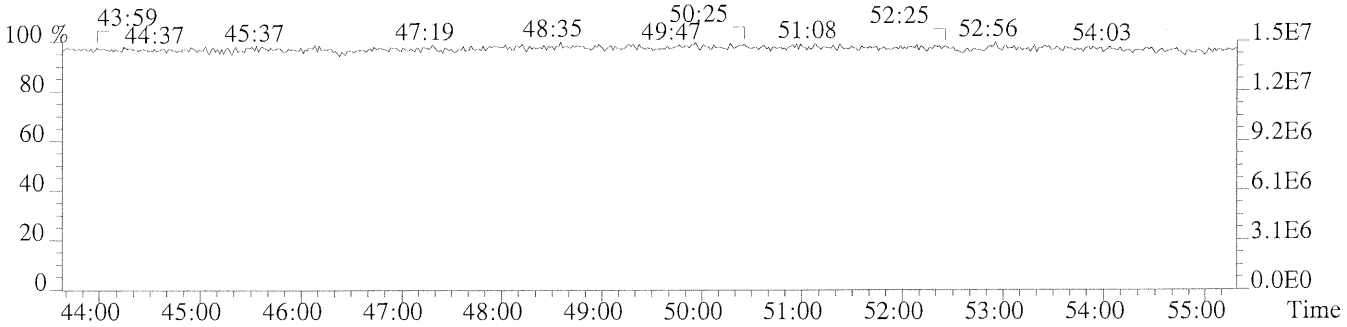
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1464.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1632.0,1.00%,F,T)

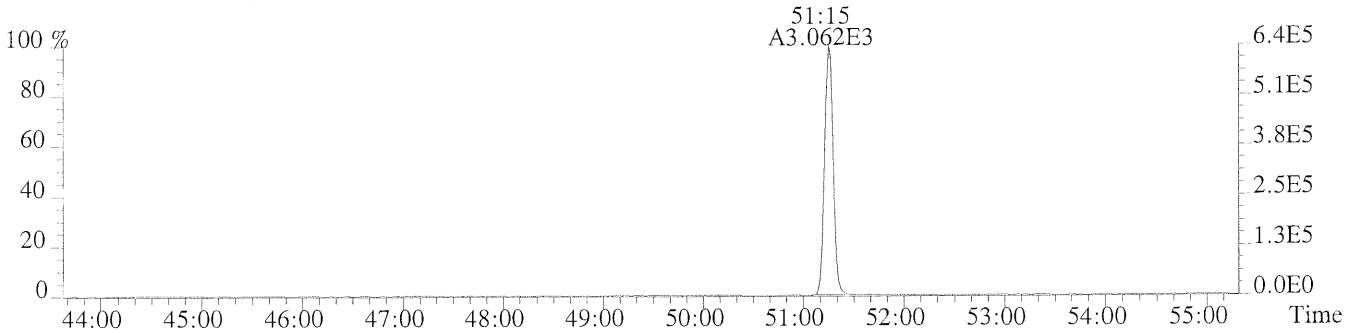


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

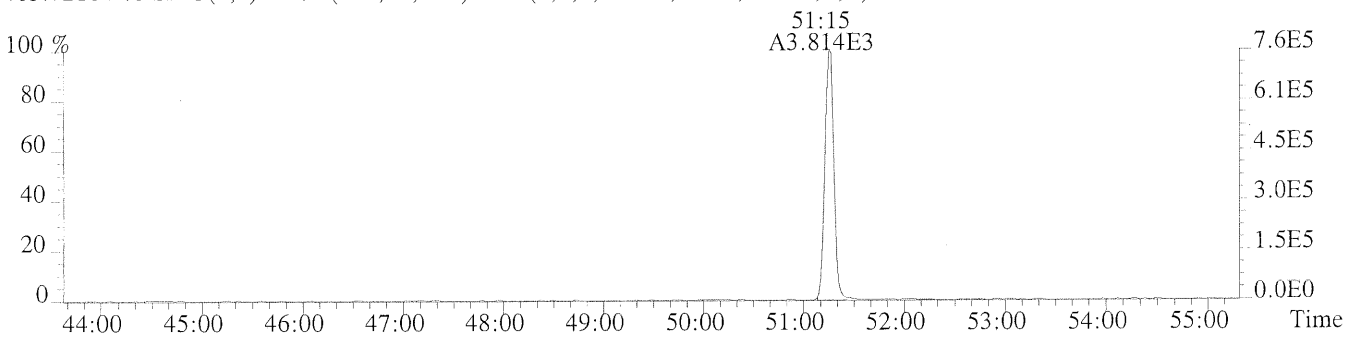


File:U142188 #1-579 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

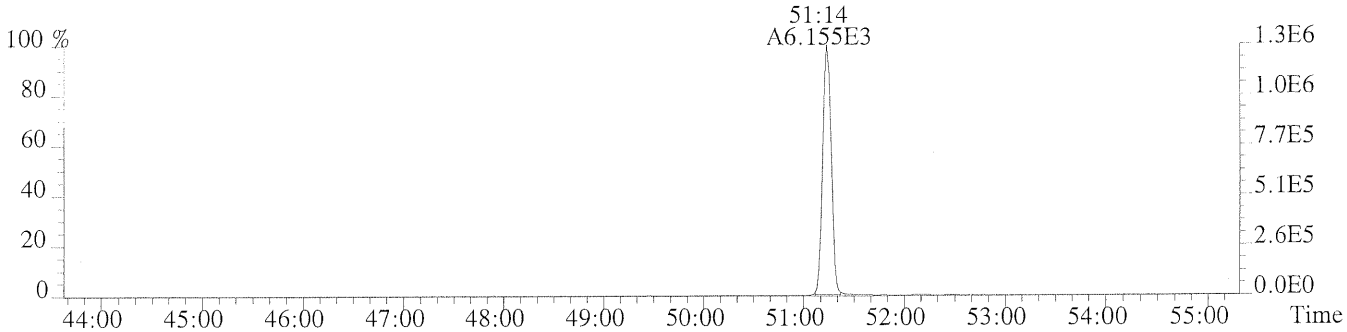
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1164.0,1.00%,F,T)



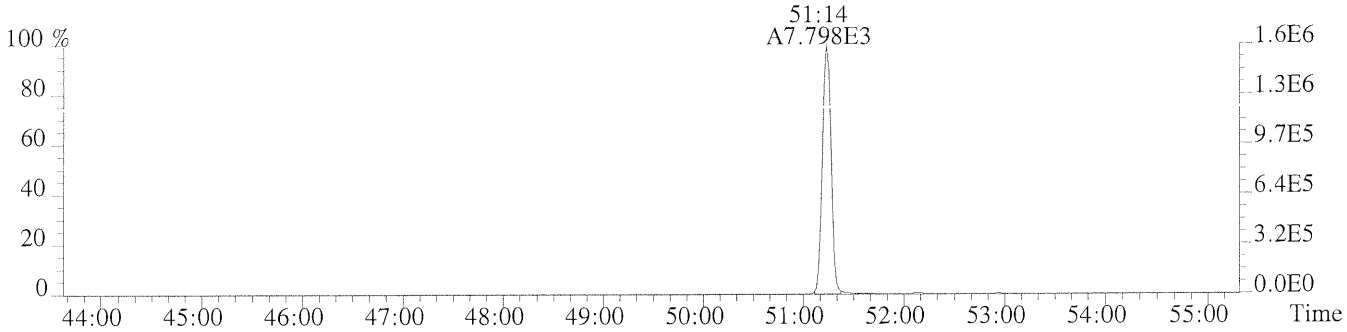
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



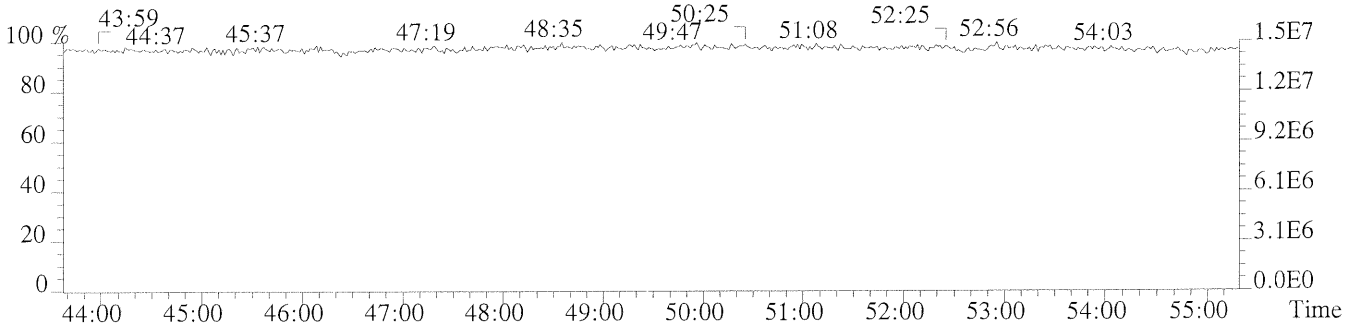
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1108.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,920.0,1.00%,F,T)

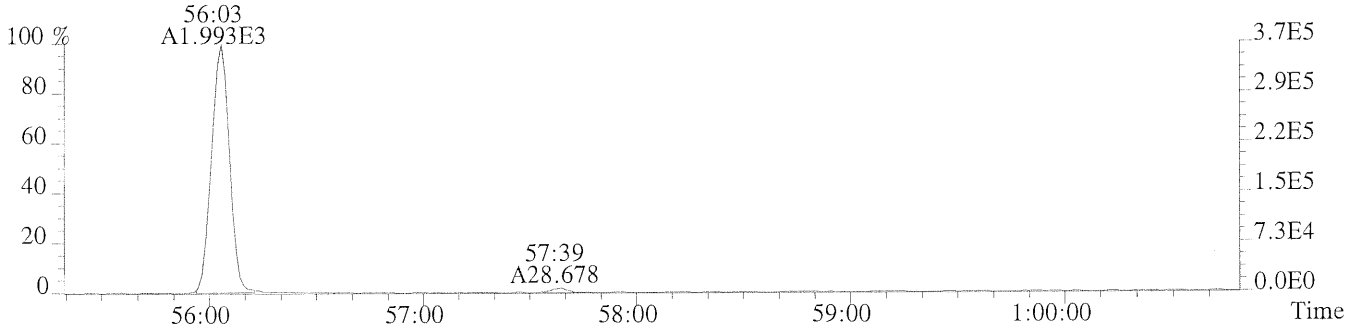


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

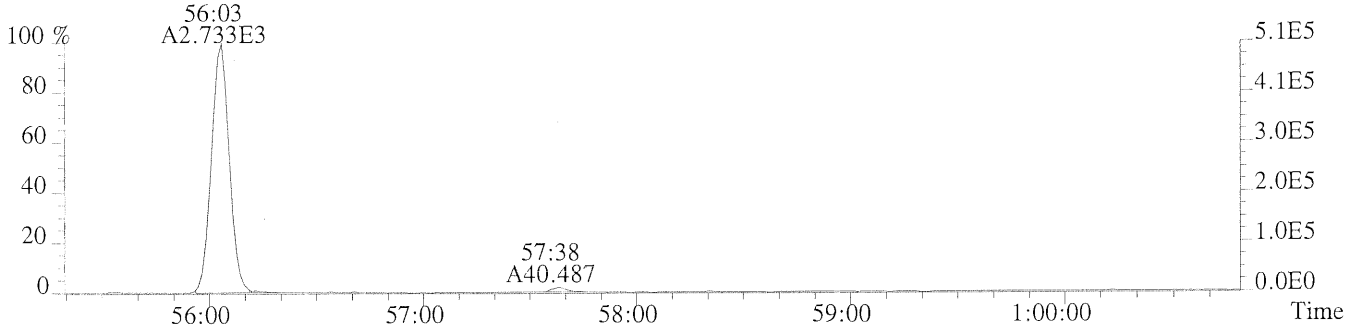


File:U142188 #1-310 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

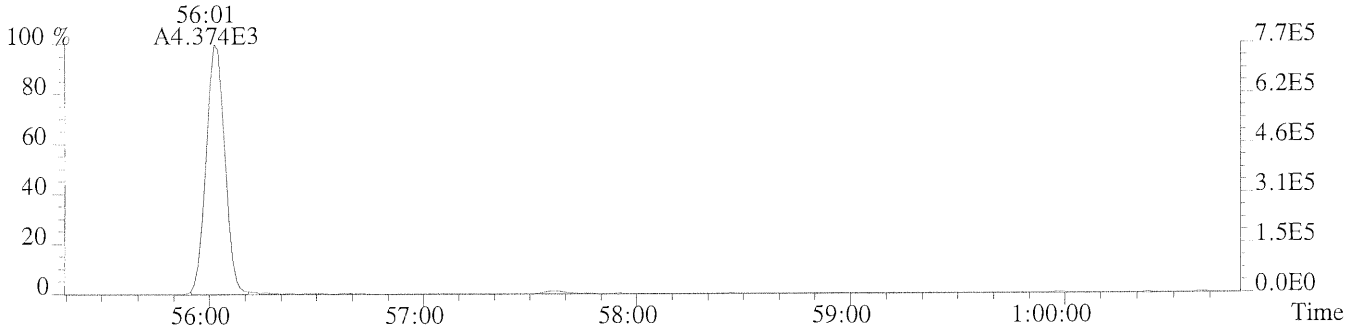
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,568.0,1.00%,F,T)



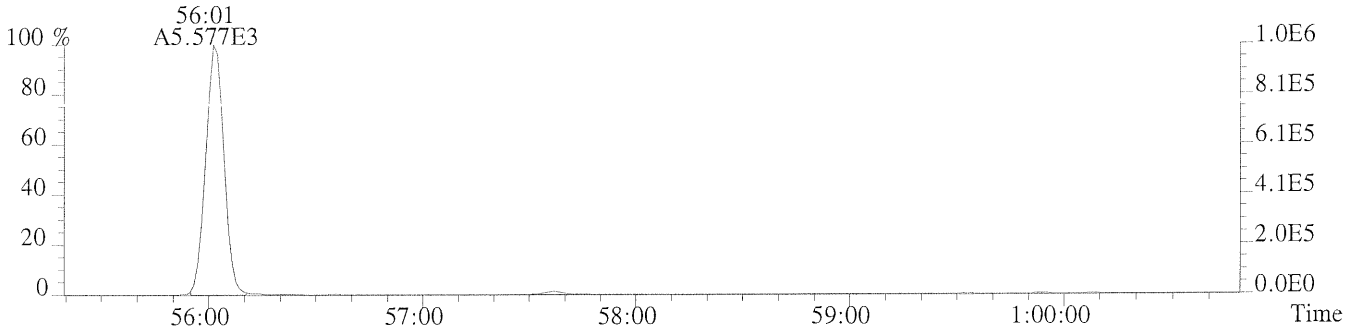
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1452.0,1.00%,F,T)



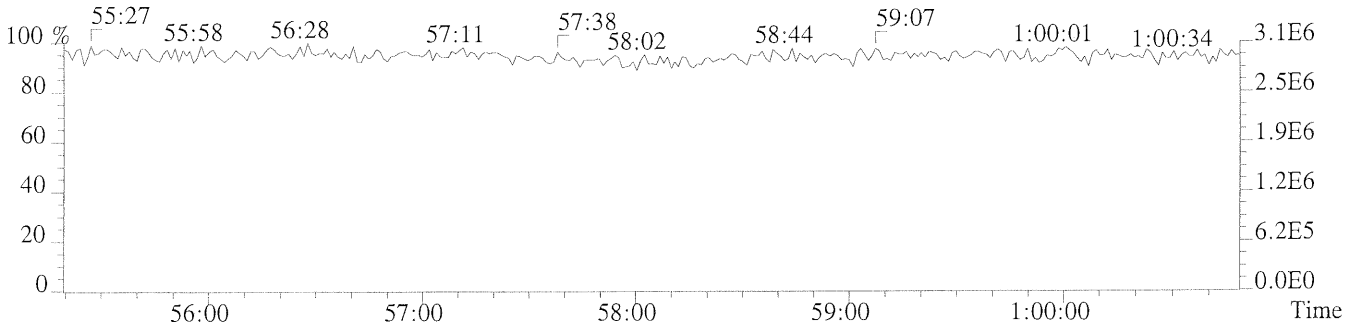
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,596.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,828.0,1.00%,F,T)

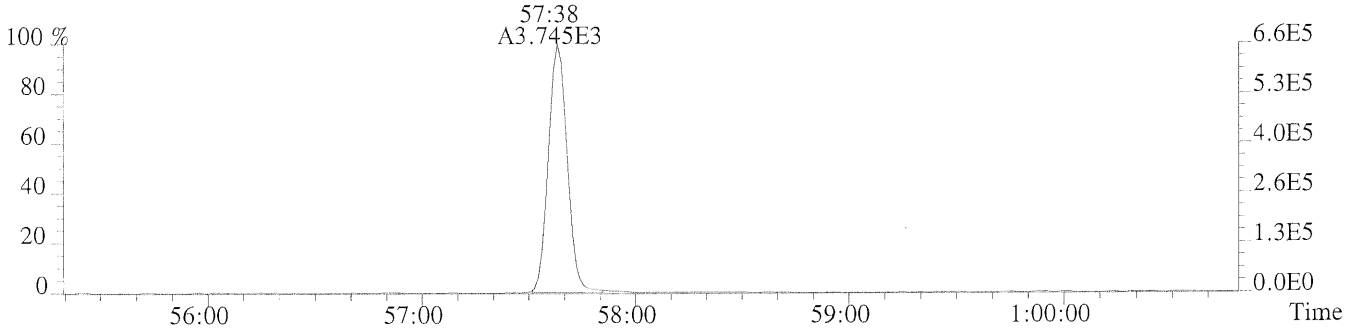


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)

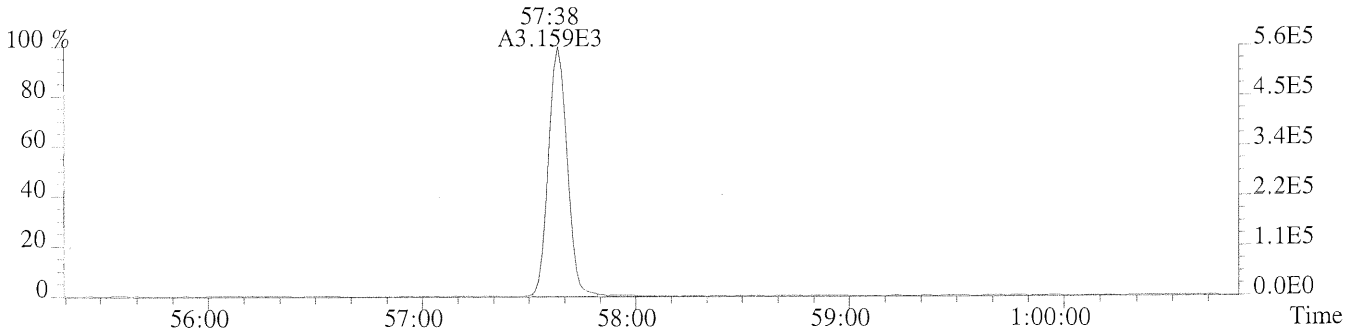


File:U142188 #1-310 Acq:28-NOV-2011 06:59:07 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:CCAL CS3

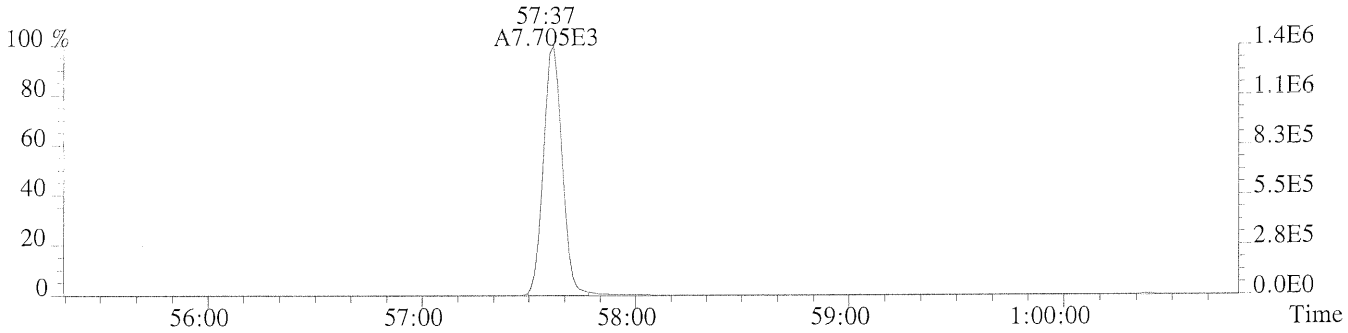
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)



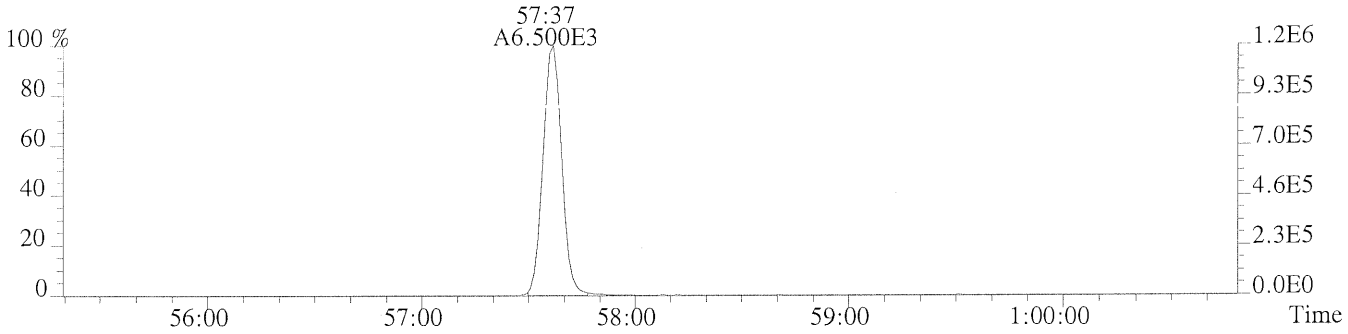
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,912.0,1.00%,F,T)



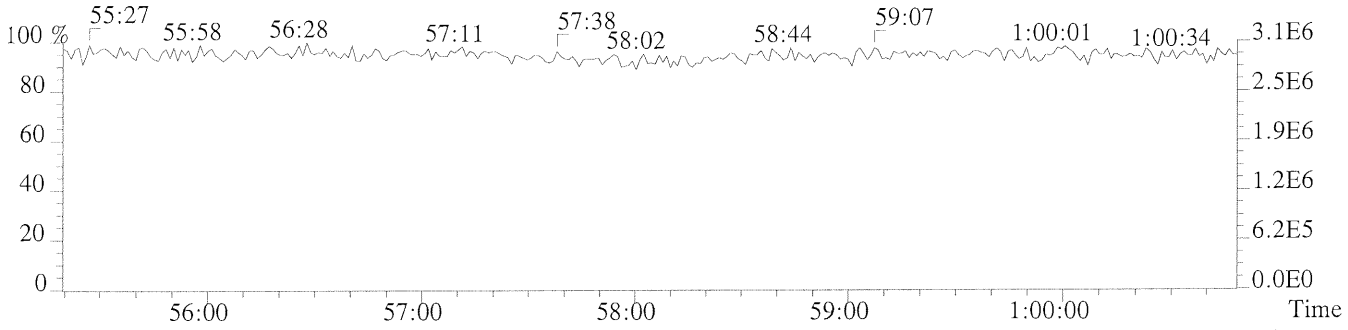
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,740.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,644.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Columbia Analytical Services INC

Initial Calibration

19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.caslab.com

An Employee Owned Company

Initial Calibration Checklist

Calibration File Name: U110223166 8IN

Date: 02/23/11

Method: 1668(209) 1668(27) 1668 (WHO) 1668 (WHO & TOTAL)

Date	02/25/11	First Reviewer	MC

Date	02/25/11	Second Reviewer	[illegible]

5DFC
PCDD/PCDF ANALYTICAL SEQUENCE SUMMARY

Lab Name: Columbia Analytical Services, Houston Contract:

Lab Code: CAS Episode No.: SDG No.:

GC Column: SPB-OCT╗ ID: 0.25 (mm) Instrument ID: AutoSpec-Ultima

Init. Calib. Date: 02/23/11

Init. Calib.Times: 09:22

THE ANALYTICAL SEQUENCE OF STANDARDS, SAMPLES, BLANKS, SPIKES AND DUPLICATES IS AS FOLLOWS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
DCCS-209	PCB 209 INJECT╗	U139139	23-FEB-11	09:22:35
ICAL CS1	ICAL CS1	U139142	23-FEB-11	13:25:54
ICAL CS2	ICAL CS2	U139141	23-FEB-11	11:58:54
ICAL CS3	ICAL CS3	U139143	23-FEB-11	14:38:18
ICAL CS4	ICAL CS4	U139144	23-FEB-11	15:48:29
ICAL CS5	ICAL CS5	U139145	23-FEB-11	16:50:43
ICAL CS6	ICAL CS6	U139146	23-FEB-11	18:13:13

Sample List Report

MassLynx 4.1

Sample List: C:\MassLynx\CASHOUSTON.PRO\SampleDB\U1110223.SPL
Last Modified: Wednesday, February 23, 2011 18:13:09 Central Standard Time
Printed: Thursday, February 24, 2011 04:49:39 Central Standard Time

Columbia Analytical Services
19408 Park Row
Suite 320
Houston, Texas 77084

Page Position (1, 1)

H:U1102231668IN/U1102231668IDN

	Date	Time	File Name	Sample ID	Client ID	Analyst	Comments	GC Met	Acq Met
1	02/23/11	06:03	U139137	PCB 209 INJECTION	B2-31-3		HRMS CHECK 05:51	1668EPA	1668EPA
2		07:20	U139138	CCAL CS3	B3-36-4			1668EPA	1668EPA
3		09:22	U139139	PCB 209 INJECTION	B3-82-3		HRMS CHECK 09:03	1668EPA	1668EPA
4		10:55	U139140	ICAL CS1	B3-80-1A		DO NOT USE	1668EPA	1668EPA
5		11:58	U139141	ICAL CS2	B3-80-1B			1668EPA	1668EPA
6		13:25	U139142	ICAL CS1	B3-80-1A			1668EPA	1668EPA
7		14:38	U139143	ICAL CS3	B3-80-1C			1668EPA	1668EPA
8		15:48	U139144	ICAL CS4	B3-80-1D			1668EPA	1668EPA
9		16:50	U139145	ICAL CS5	B3-80-1E		HRMS CHECK 18:06	1668EPA	1668EPA
10		18:13	U139146	ICAL CS6	B2-59-4		HRMS CHECK 19:28	1668EPA	1668EPA
11			---	---	---			1668EPA	1668EPA
12			---	---	---			1668EPA	1668EPA
13			---	---	---			1668EPA	1668EPA
14			---	---	---			---	---
15			---	---	---			---	---
16			---	---	---			TCDFCAS	TCDFCAS
17			---	---	---			TCDFCAS	TCDFCAS
18			---	---	---			TCDFCAS	TCDFCAS
19			---	---	---			TCDFCAS	TCDFCAS
20			---	---	---			TCDFCAS	TCDFCAS
21			---	---	---			TCDFCAS	TCDFCAS
22			---	---	---			TCDFCAS	TCDFCAS
23			---	---	---			TCDFCAS	TCDFCAS
24			---	---	---			---	---
25			---	---	---			1668EPA	1668EPA
26			---	---	---			8290cas	8290CAS
27			---	---	---			TCDFCAS	TCDFCAS
28			---	---	---			---	---
29			---	---	---			---	---
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38	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---

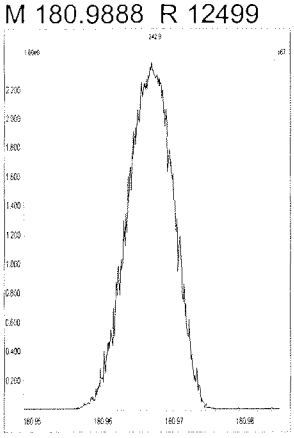
Reviewed By: MC

048

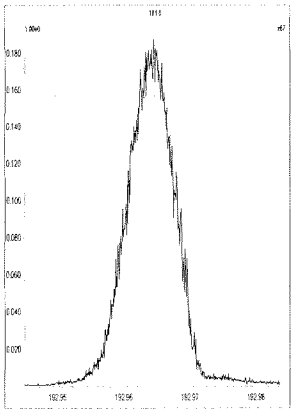
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, February 23, 2011 09:03:11 Central Standard Time

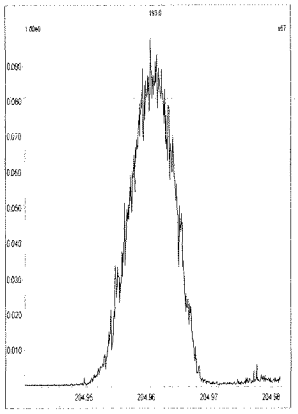
M 180.9888 R 12499



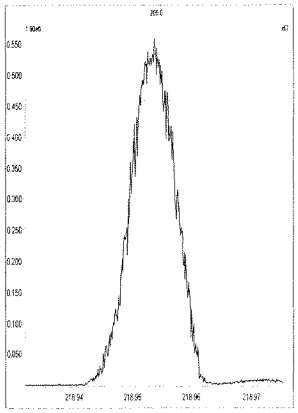
M 192.9888 R 11849



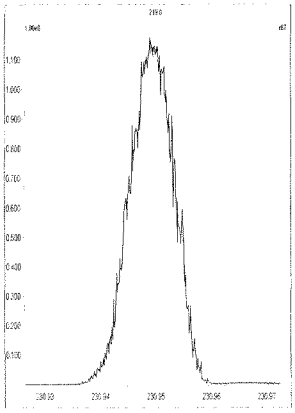
M 204.9888 R 13229



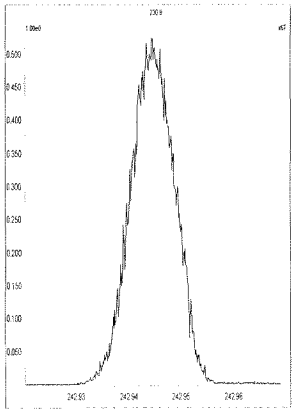
M 218.9856 R 13297



M 230.9856 R 13298



M 242.9856 R 12821

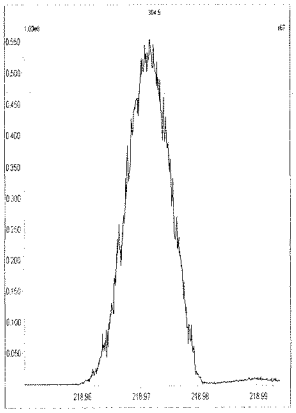


Experiment Calibration Report **MassLynx 4.1**

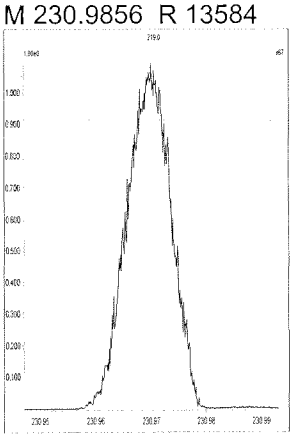
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, February 23, 2011 09:03:28 Central Standard Time

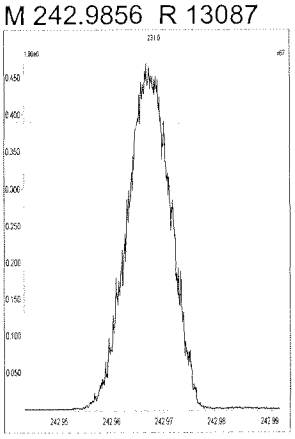
M 218.9856 R 13227



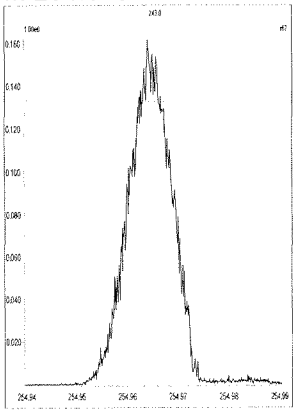
M 230.9856 R 13584



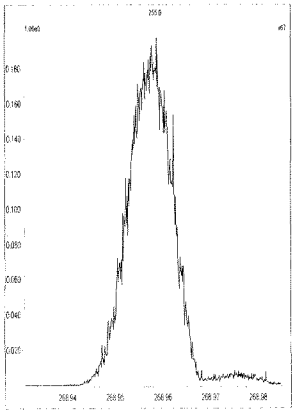
M 242.9856 R 13087



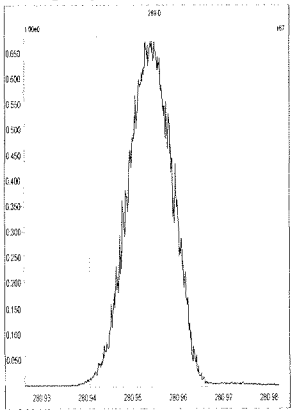
M 254.9856 R 13590



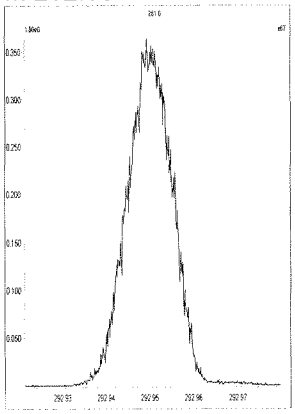
M 268.9824 R 13155



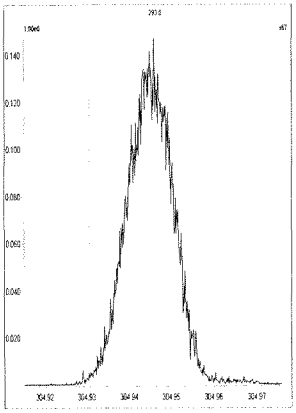
M 280.9824 R 12888



M 292.9824 R 13163



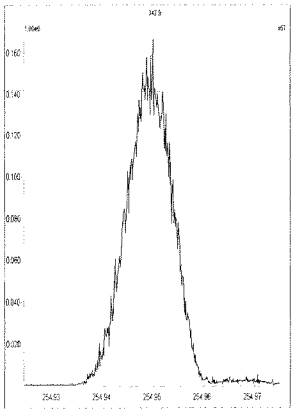
M 304.9824 R 12434



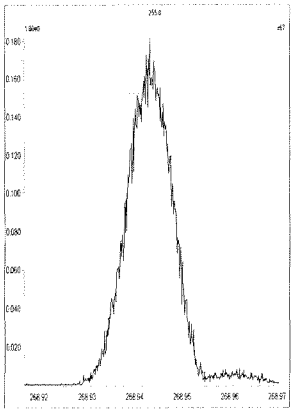
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, February 23, 2011 09:03:45 Central Standard Time

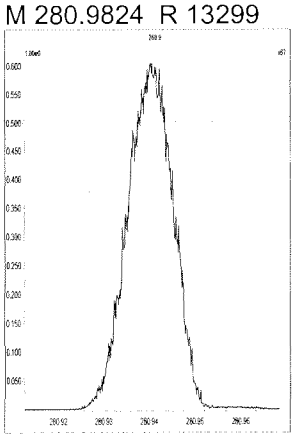
M 254.9856 R 12502



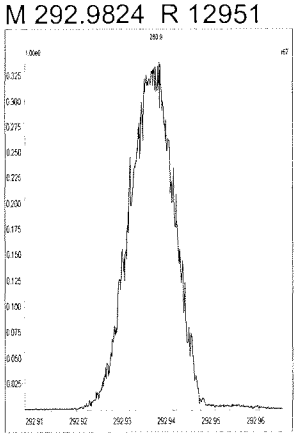
M 268.9824 R 12817



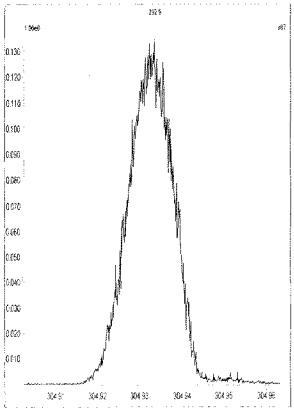
M 280.9824 R 13299



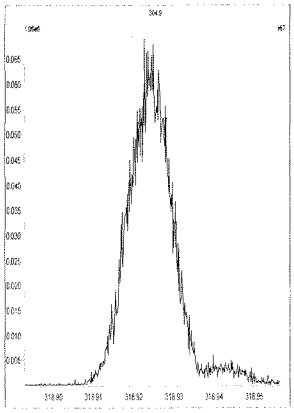
M 292.9824 R 12951



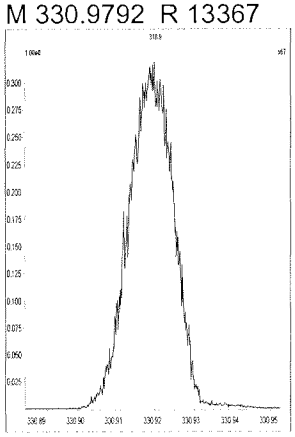
M 304.9824 R 13085



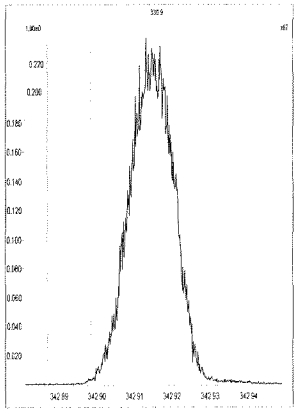
M 318.9792 R 13021



M 330.9792 R 13367



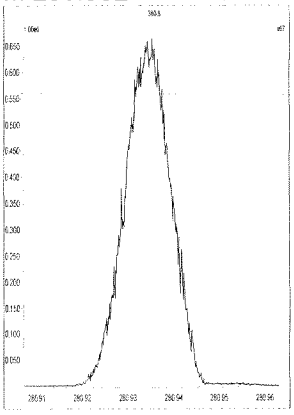
M 342.9792 R 13159



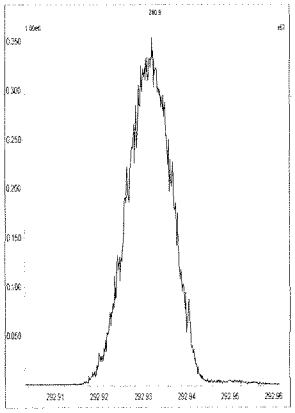
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, February 23, 2011 09:04:03 Central Standard Time

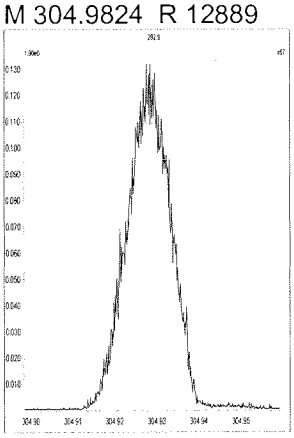
M 280.9824 R 12438



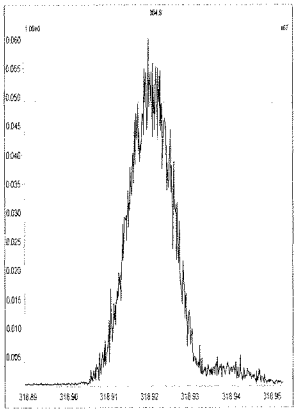
M 292.9824 R 12818



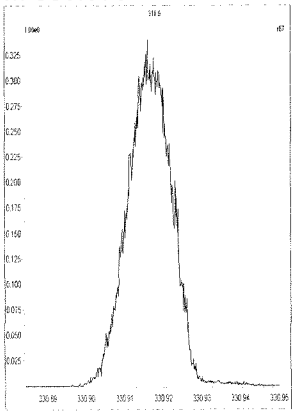
M 304.9824 R 12889



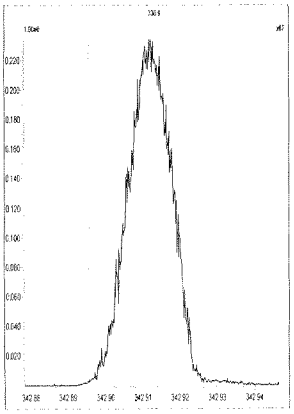
M 318.9792 R 12880



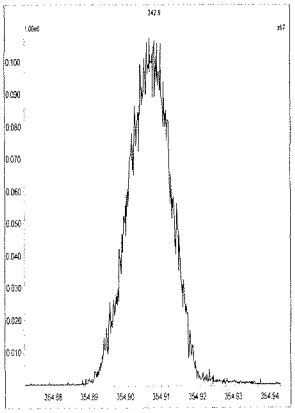
M 330.9792 R 13517



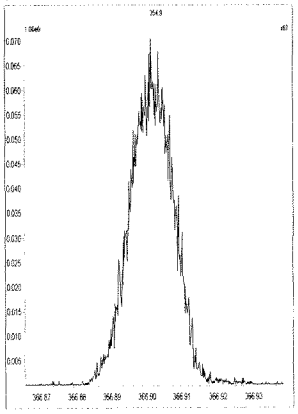
M 342.9792 R 13663



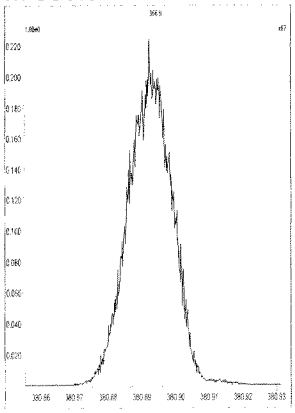
M 354.9792 R 13368



M 366.9792 R 13371



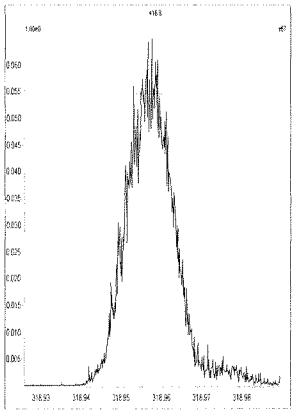
M 380.9760 R 13299



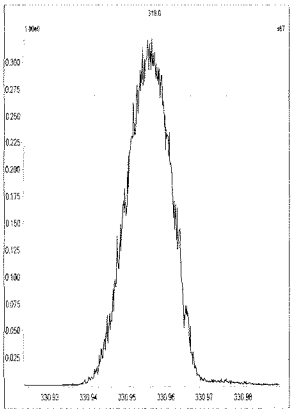
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, February 23, 2011 09:04:22 Central Standard Time

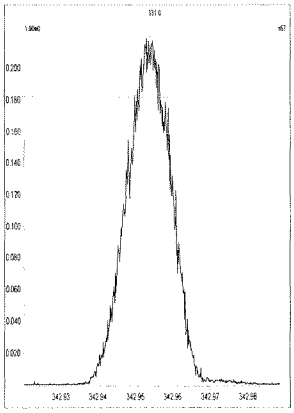
M 318.9792 R 12196



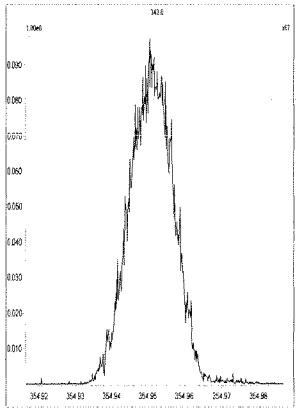
M 330.9792 R 12953



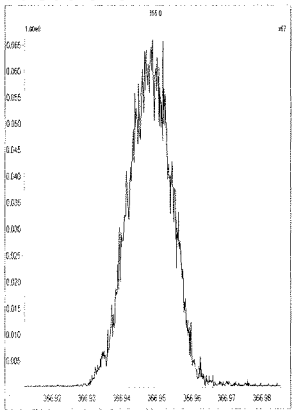
M 342.9792 R 13024



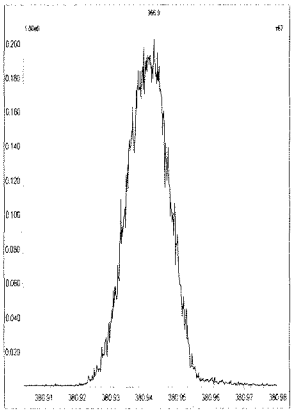
M 354.9792 R 13662



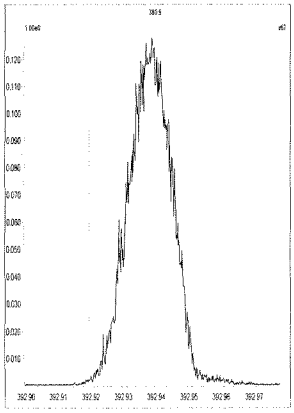
M 366.9792 R 13093



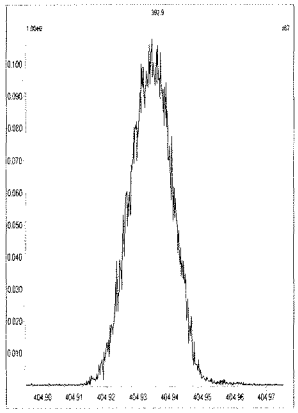
M 380.9760 R 13366



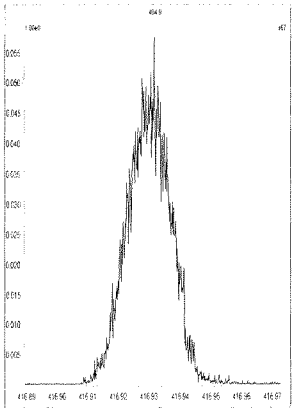
M 392.9760 R 14045



M 404.9760 R 13735



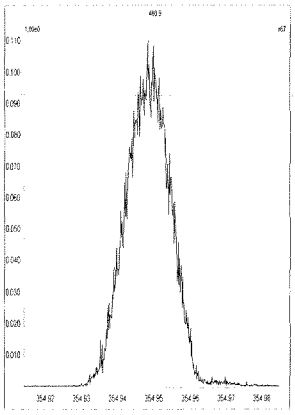
M 416.9760 R 12687



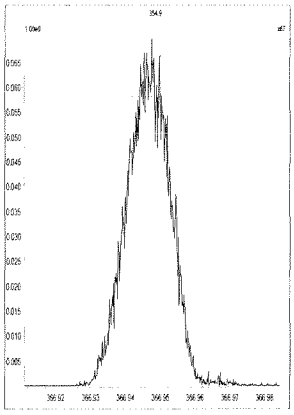
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

Printed: Wednesday, February 23, 2011 09:04:44 Central Standard Time

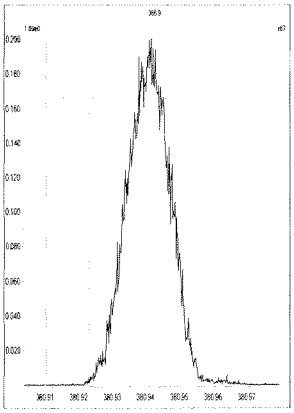
M 354.9792 R 14119



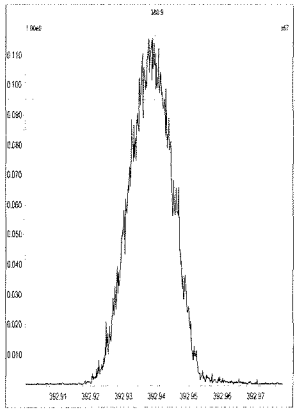
M 366.9792 R 13156



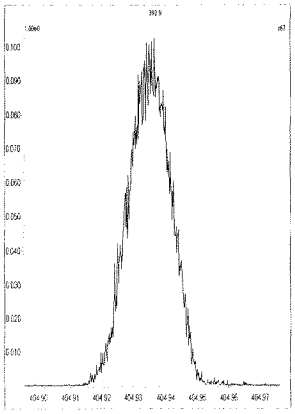
M 380.9760 R 12752



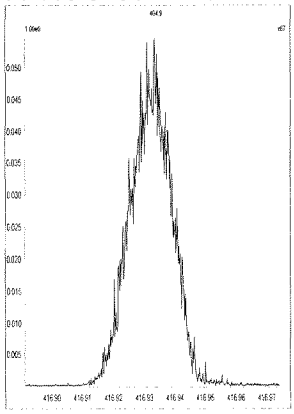
M 392.9760 R 13441



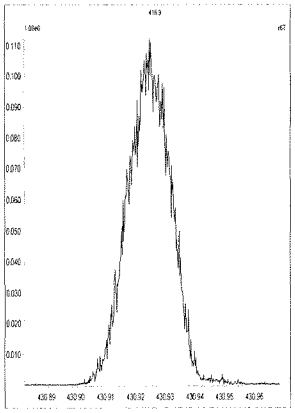
M 404.9760 R 13439



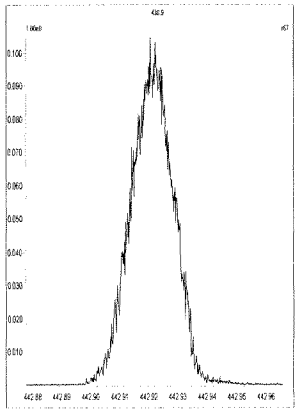
M 416.9760 R 14447



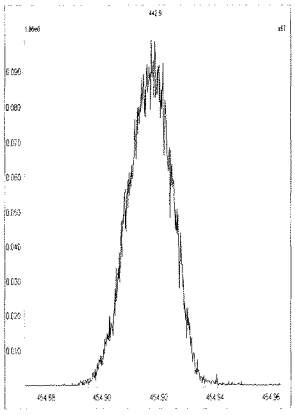
M 430.9728 R 13514



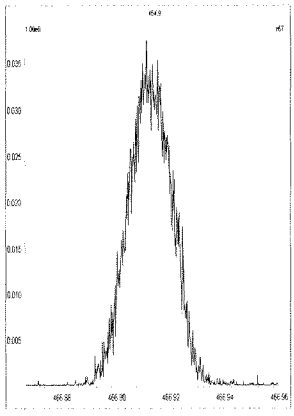
M 442.9728 R 13664



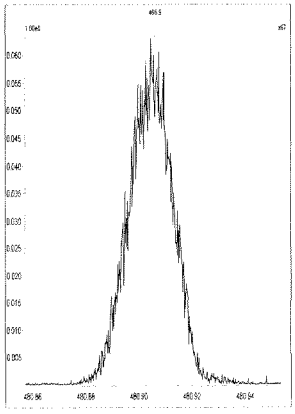
M 454.9728 R 13154



M 466.9728 R 13440



M 480.9696 R 13156

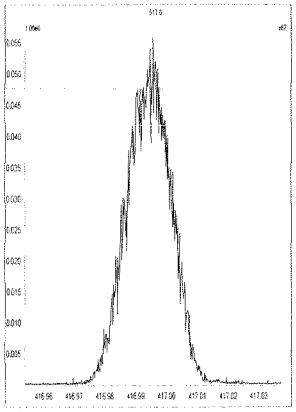


Experiment Calibration Report **MassLynx 4.1**

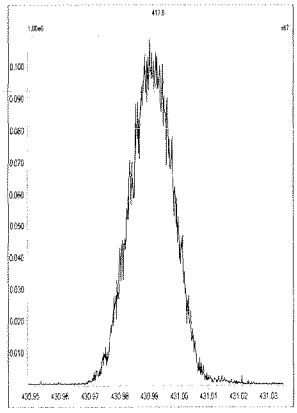
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

Printed: Wednesday, February 23, 2011 09:05:04 Central Standard Time

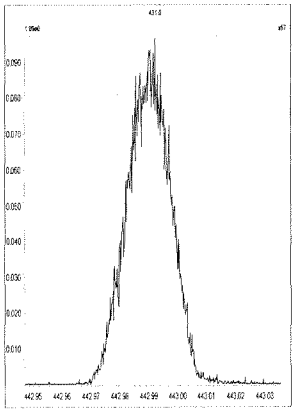
M 416.9760 R 13226



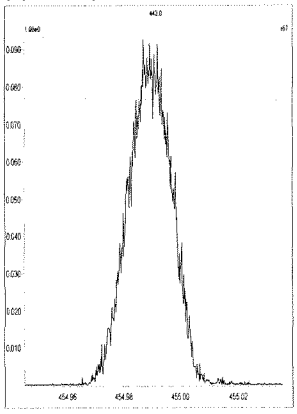
M 430.9728 R 13295



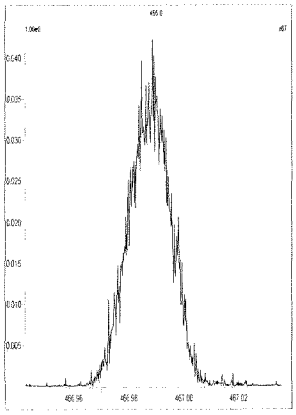
M 442.9728 R 13441



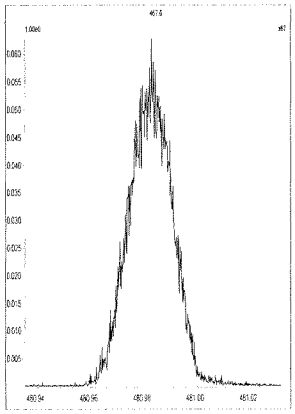
M 454.9728 R 13888



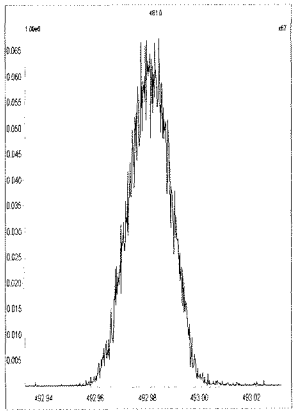
M 466.9728 R 13733



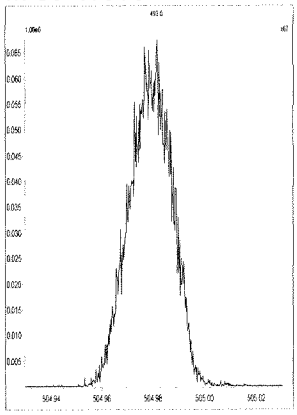
M 480.9696 R 13158



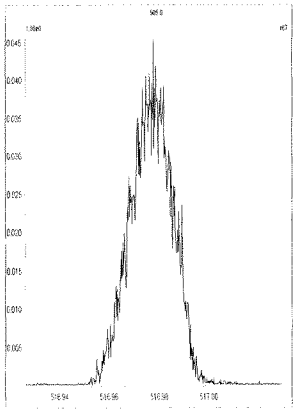
M 492.9696 R 13297



M 504.9696 R 13809



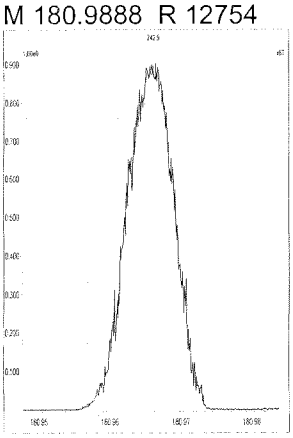
M 516.9697 R 13736



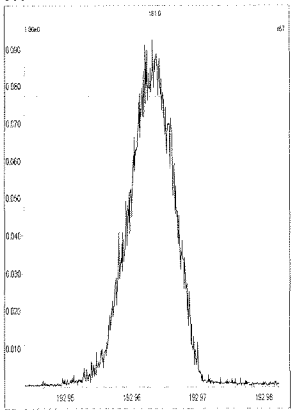
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, February 23, 2011 18:06:55 Central Standard Time

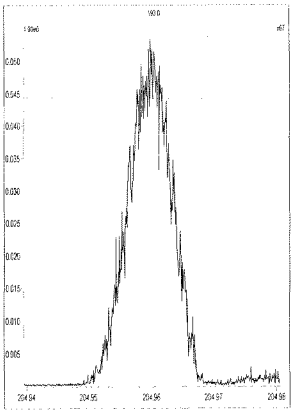
M 180.9888 R 12754



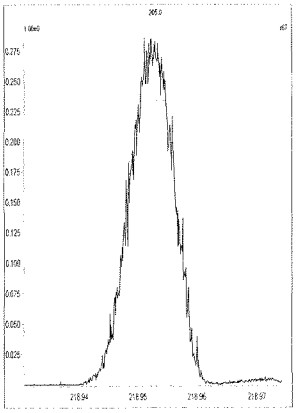
M 192.9888 R 12438



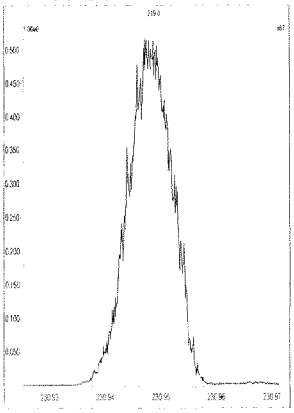
M 204.9888 R 13091



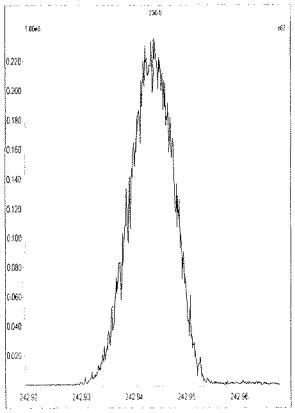
M 218.9856 R 13660



M 230.9856 R 13158



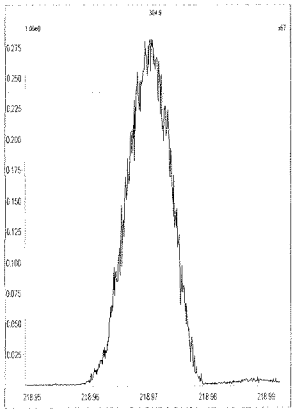
M 242.9856 R 12752



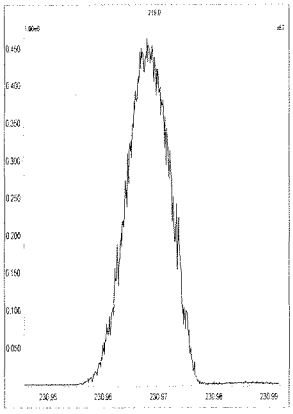
File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, February 23, 2011 18:07:12 Central Standard Time

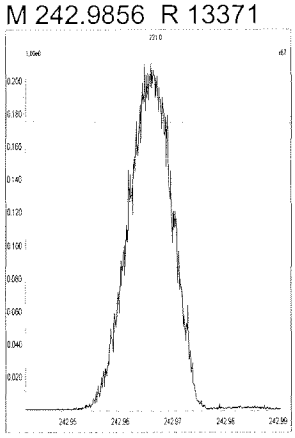
M 218.9856 R 13298



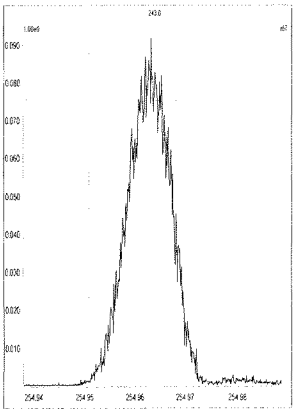
M 230.9856 R 13442



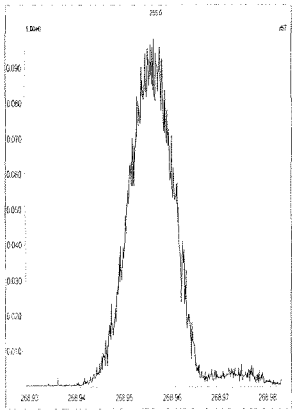
M 242.9856 R 13371



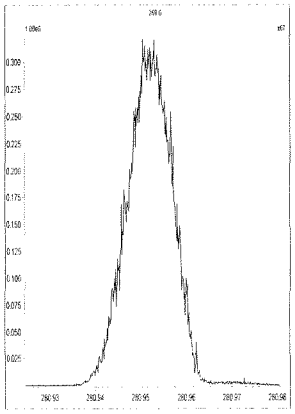
M 254.9856 R 13735



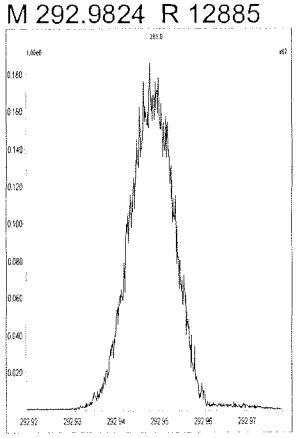
M 268.9824 R 13366



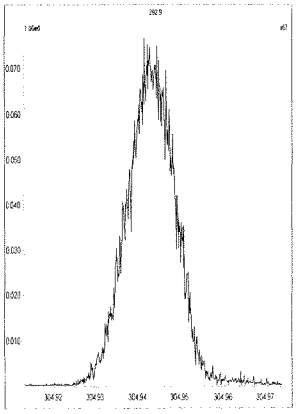
M 280.9824 R 13299



M 292.9824 R 12885



M 304.9824 R 11679



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

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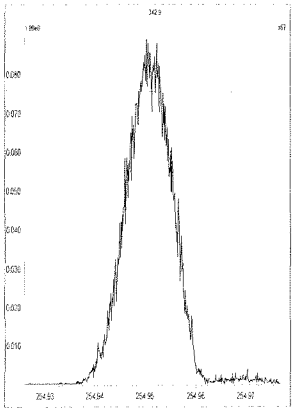
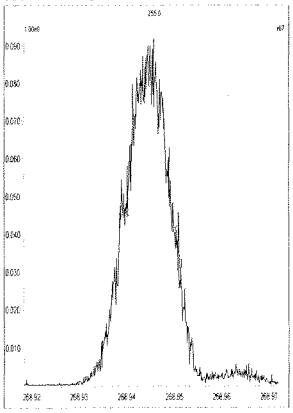
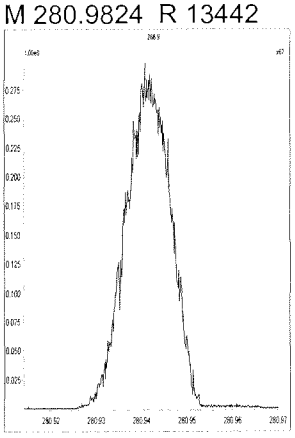
M 254.9856 R 12625



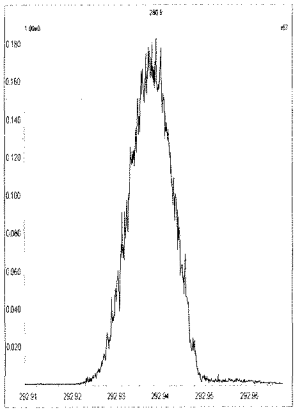
M 268.9824 R 13665



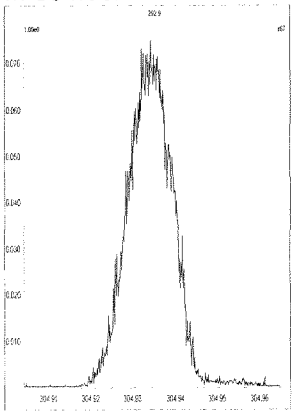
M 280.9824 R 13442



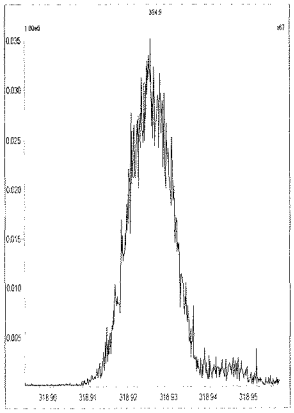
M 292.9824 R 13296



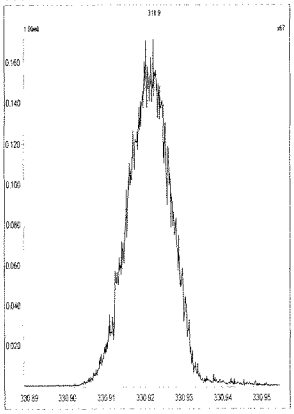
M 304.9824 R 13443



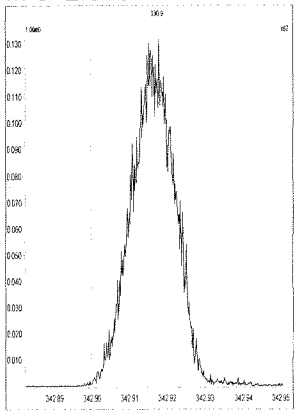
M 318.9792 R 13967



M 330.9792 R 13373



M 342.9792 R 13442



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

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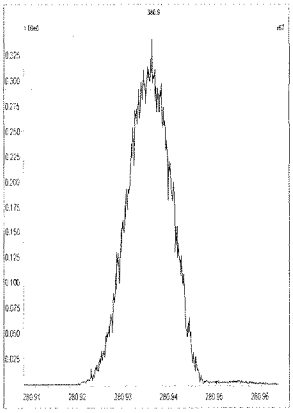
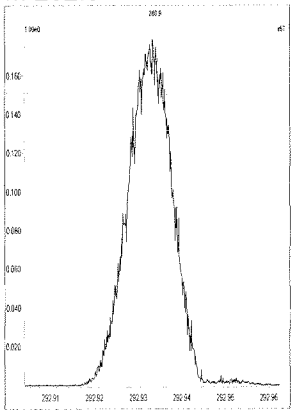
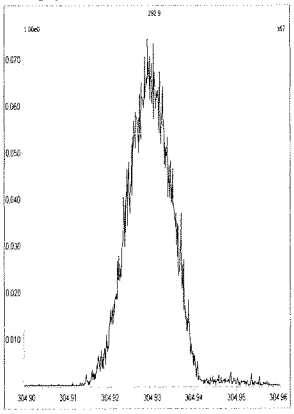
M 280.9824 R 13298



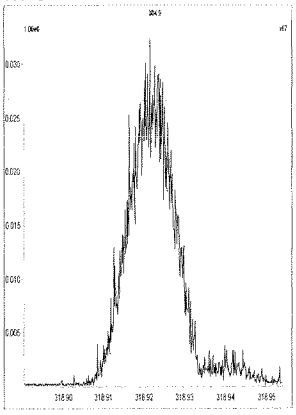
M 292.9824 R 13087



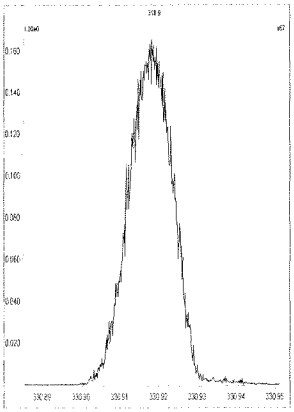
M 304.9824 R 12822



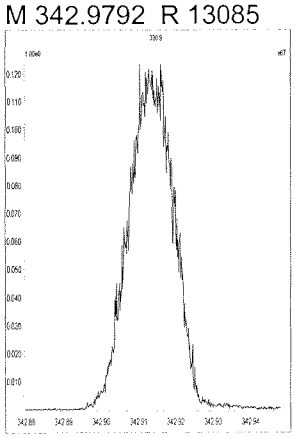
M 318.9792 R 12947



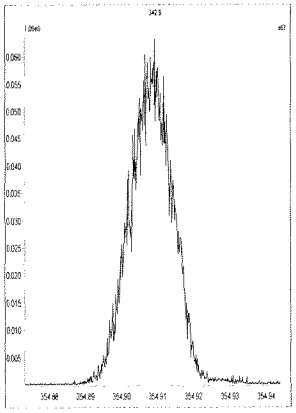
M 330.9792 R 13302



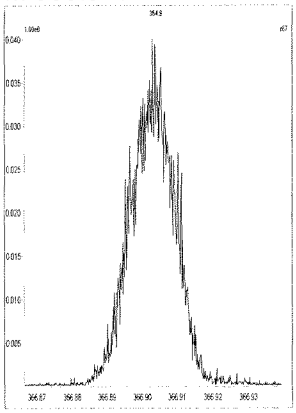
M 342.9792 R 13085



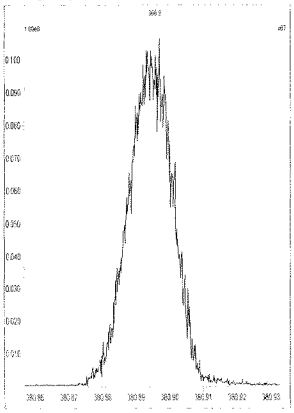
M 354.9792 R 13513



M 366.9792 R 13155



M 380.9760 R 13228



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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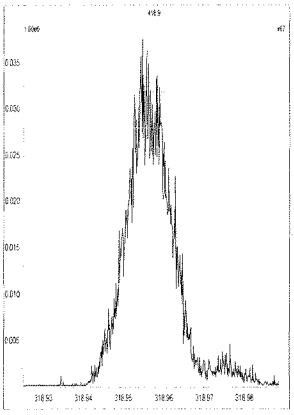
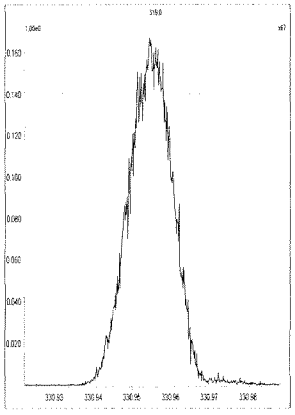
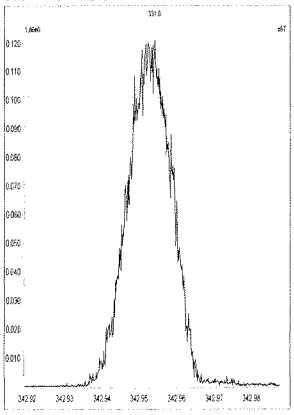
M 318.9792 R 12955



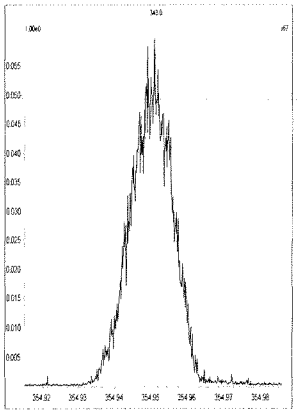
M 330.9792 R 13227



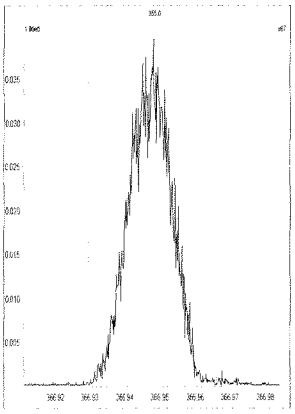
M 342.9792 R 13438



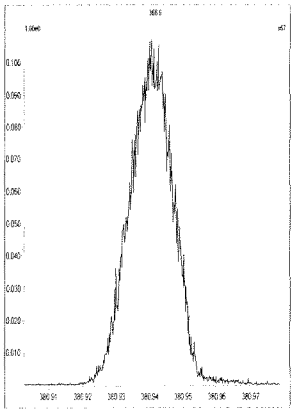
M 354.9792 R 13737



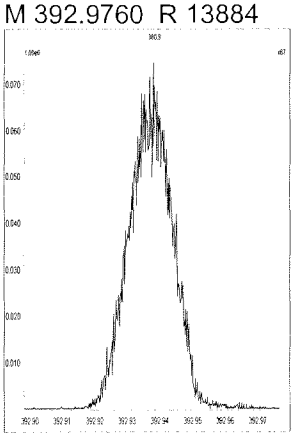
M 366.9792 R 14043



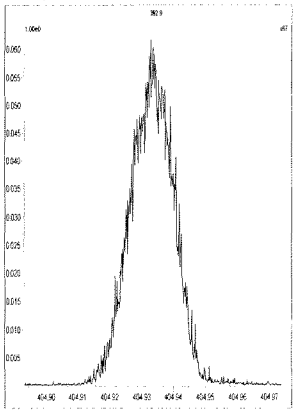
M 380.9760 R 13664



M 392.9760 R 13884



M 404.9760 R 13367



M 416.9760 R 12317

File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 6 @ 200 (ppm)

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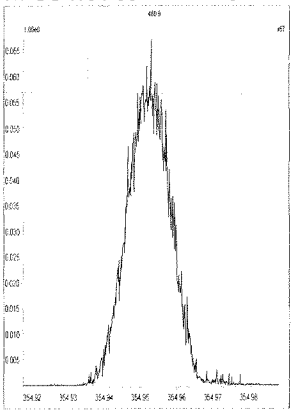
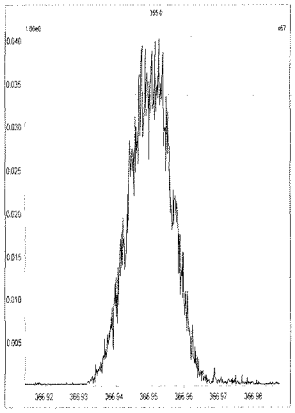
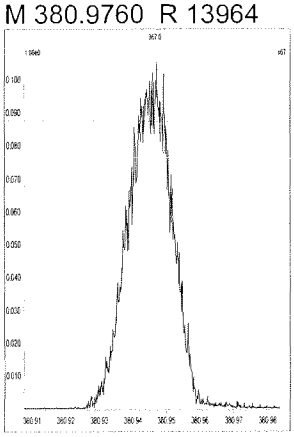
M 354.9792 R 14125



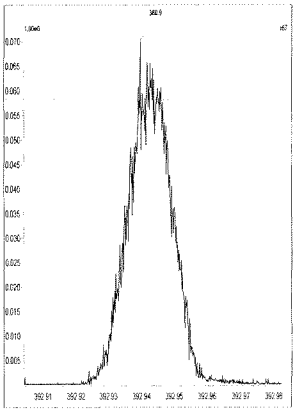
M 366.9792 R 13368



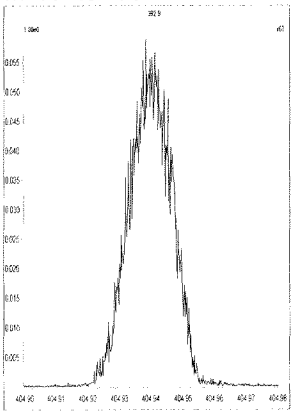
M 380.9760 R 13964



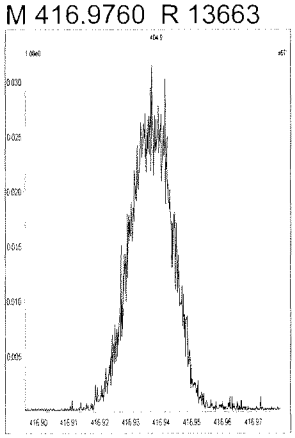
M 392.9760 R 13737



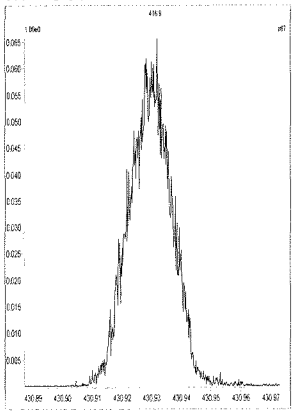
M 404.9760 R 14203



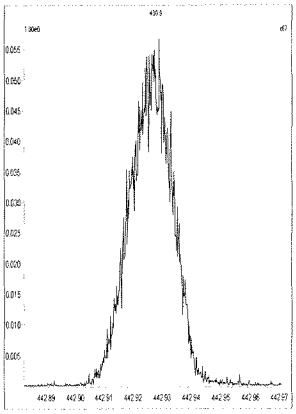
M 416.9760 R 13663



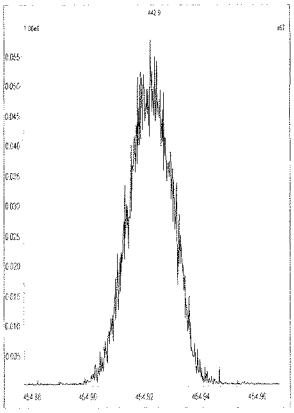
M 430.9728 R 14205



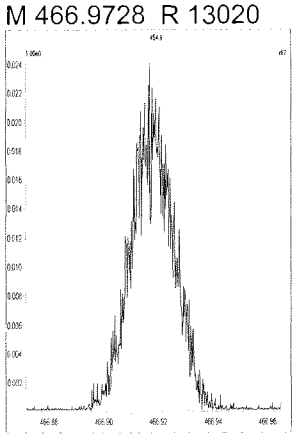
M 442.9728 R 13512



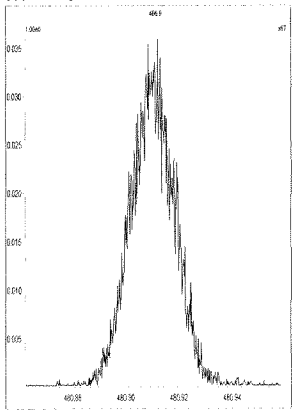
M 454.9728 R 13813



M 466.9728 R 13020



M 480.9696 R 13156



File: Experiment: 1668EPA.exp Reference: pfk.ref Function: 7 @ 200 (ppm)

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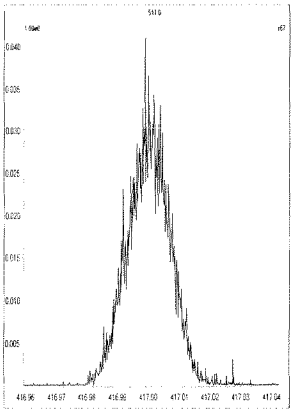
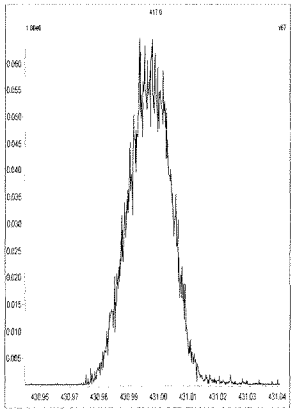
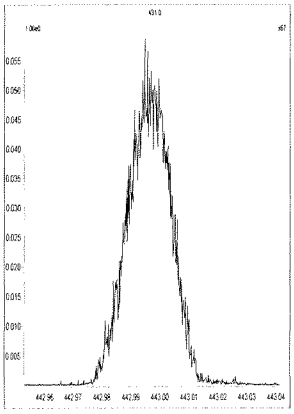
M 416.9760 R 14123



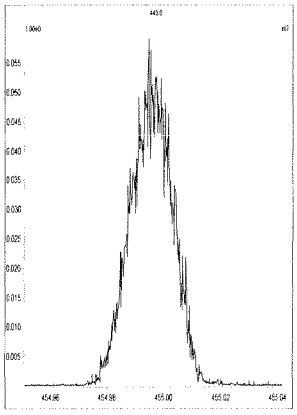
M 430.9728 R 13225



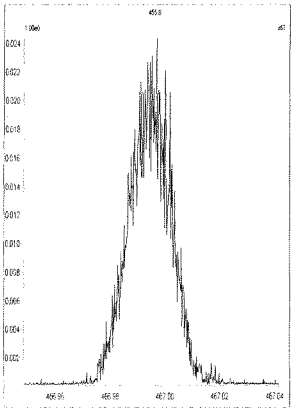
M 442.9728 R 13662



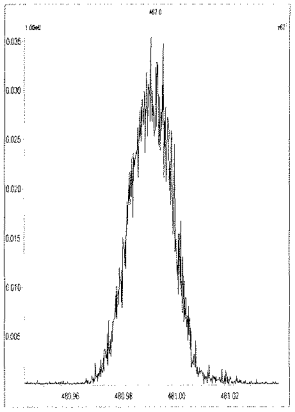
M 454.9728 R 13368



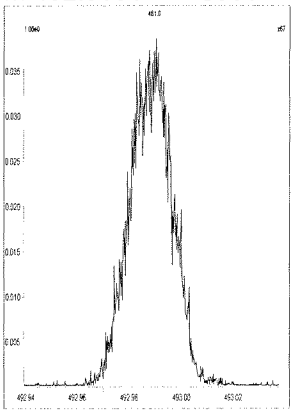
M 466.9728 R 14283



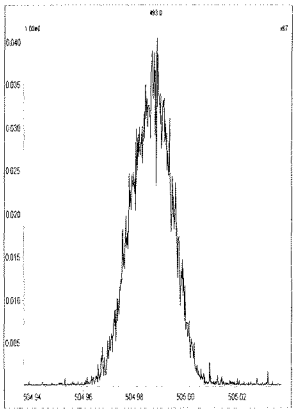
M 480.9696 R 13662



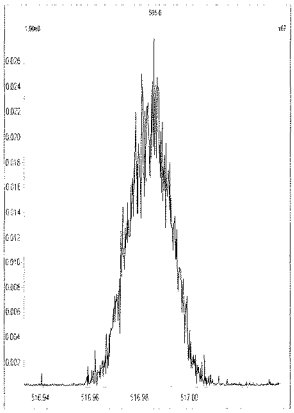
M 492.9696 R 13586



M 504.9696 R 14287



M 516.9697 R 13369



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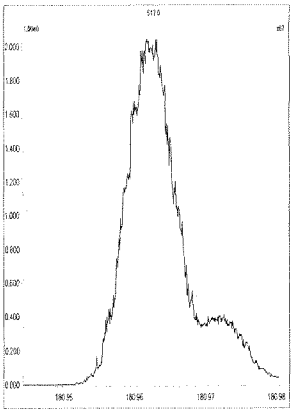
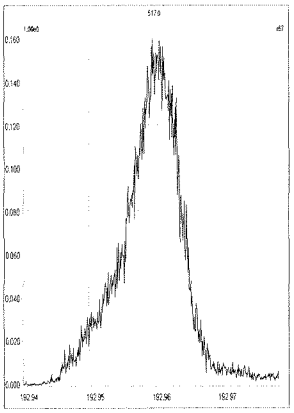
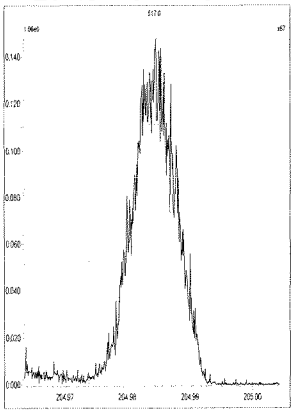
M 180.9888 R 8038



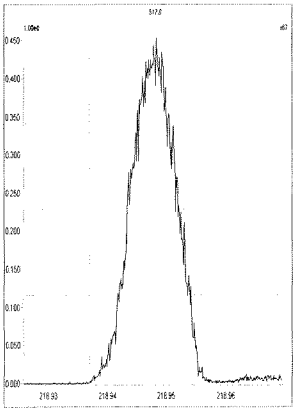
M 192.9888 R 9082



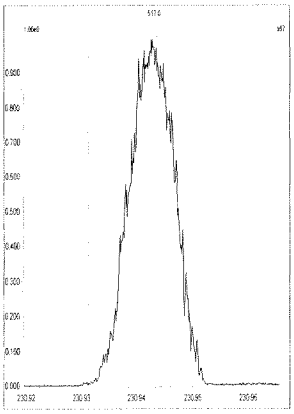
M 204.9888 R 13552



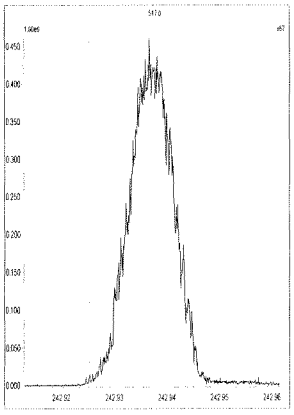
M 218.9856 R 13624



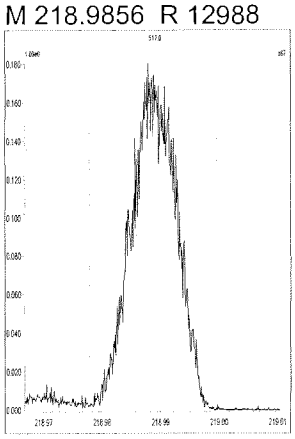
M 230.9856 R 13344



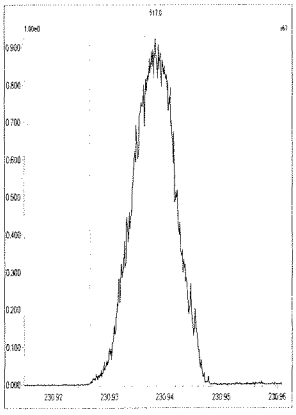
M 242.9856 R 13090



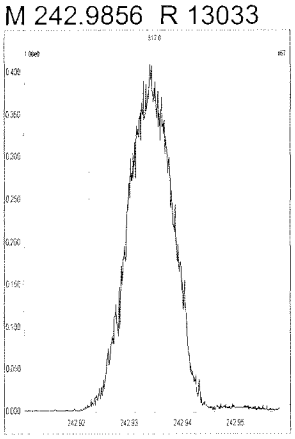
M 218.9856 R 12988



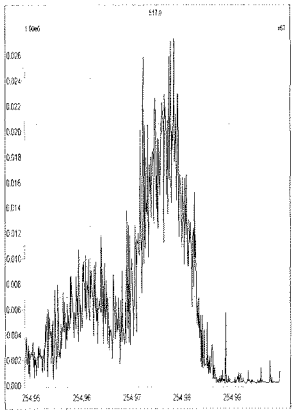
M 230.9856 R 13158



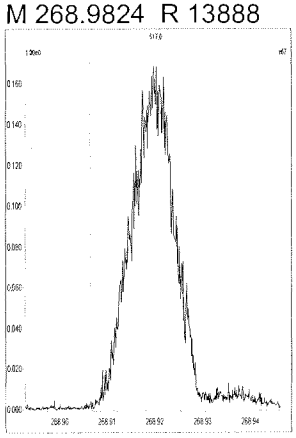
M 242.9856 R 13033



M 254.9856 R 7950



M 268.9824 R 13888



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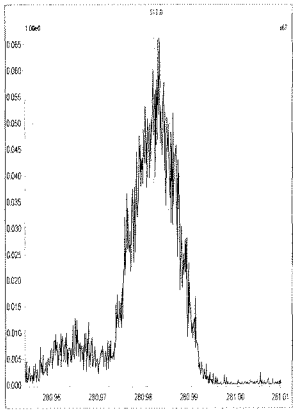
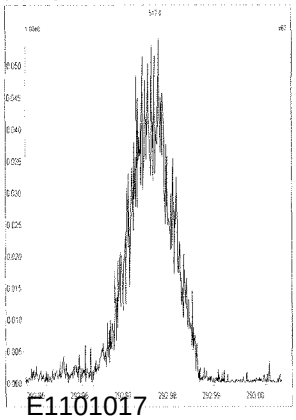


M 292.9824 R 13368



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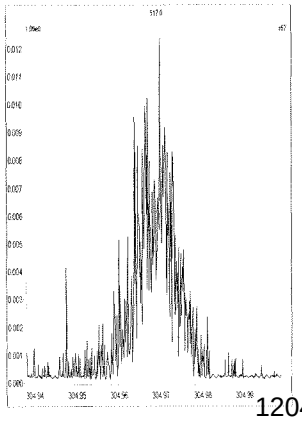
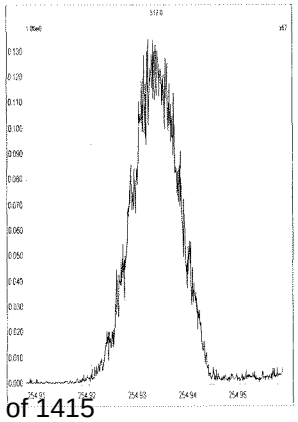
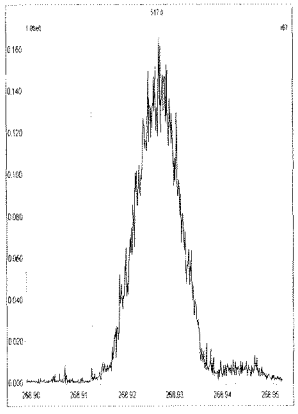


M 254.9856 R 12437



M 268.9824 R 13519



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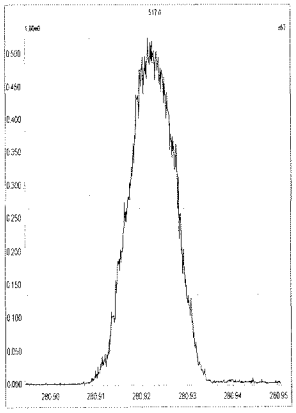
M 280.9824 R 12722



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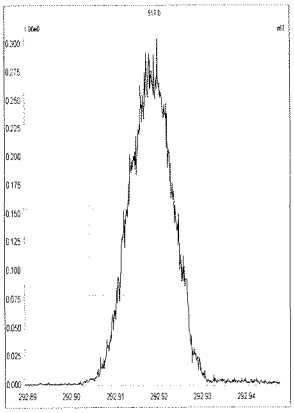
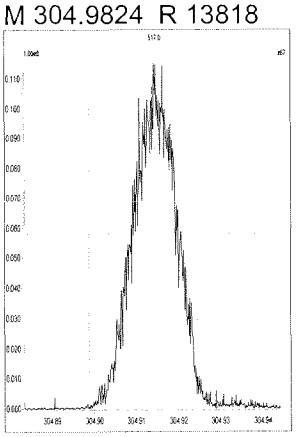
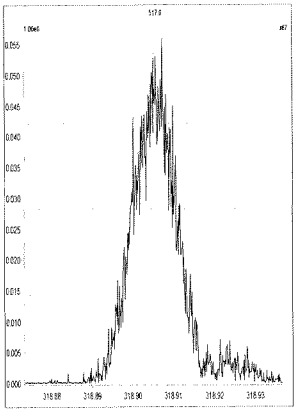


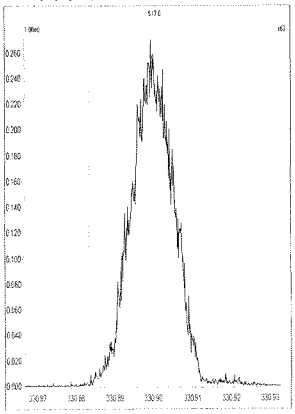
M 304.9824 R 13818



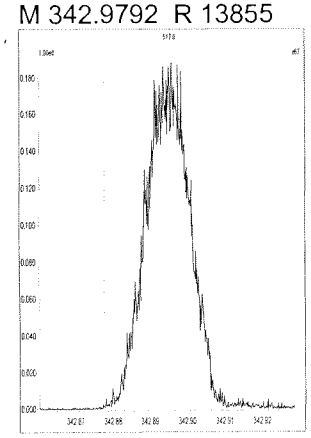
M 318.9792 R 13970



M 330.9792 R 13332



M 342.9792 R 13855



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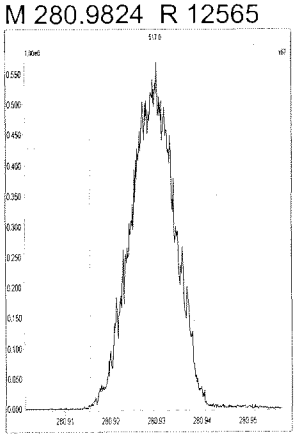
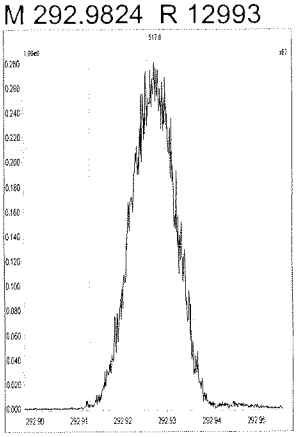
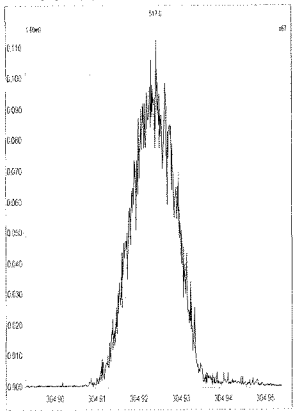


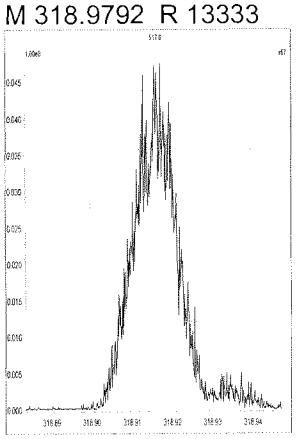
M 292.9824 R 12993



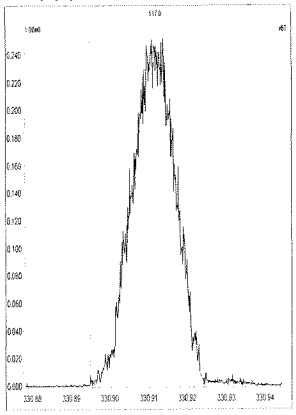
M 304.9824 R 13661



M 318.9792 R 13333



M 330.9792 R 13850



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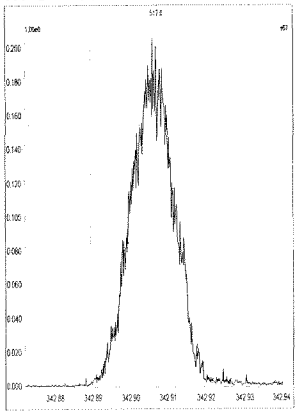
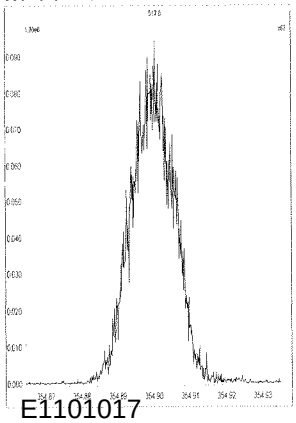
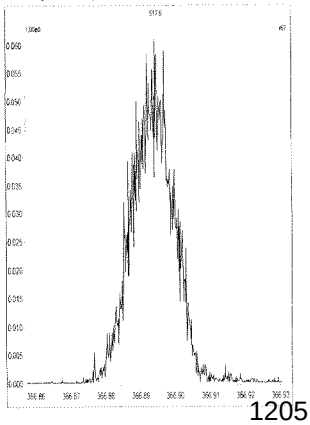


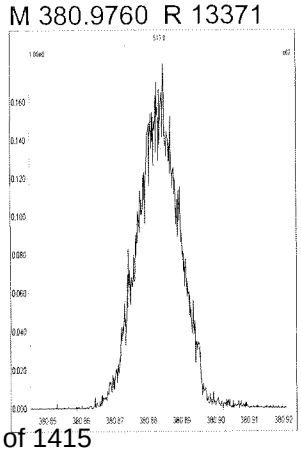
M 354.9792 R 13892



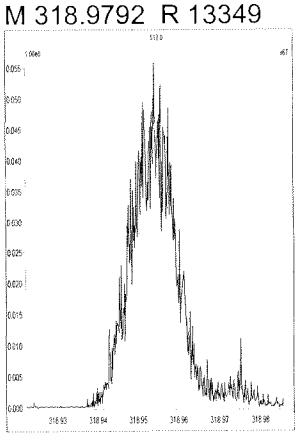
M 366.9792 R 14592



M 380.9760 R 13371



M 318.9792 R 13349



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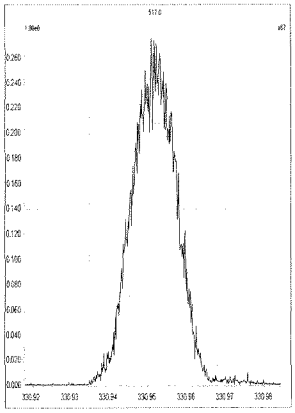
M 330.9792 R 13023



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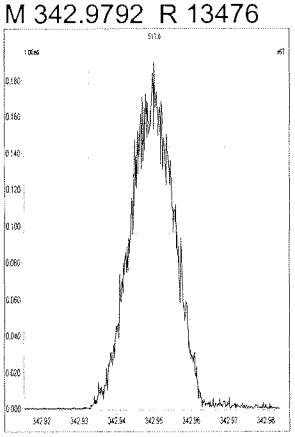

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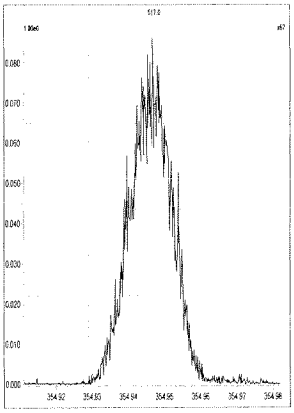

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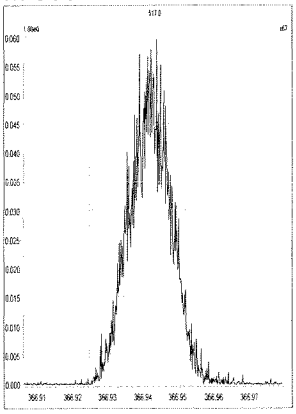
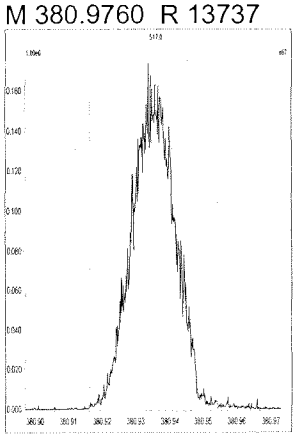
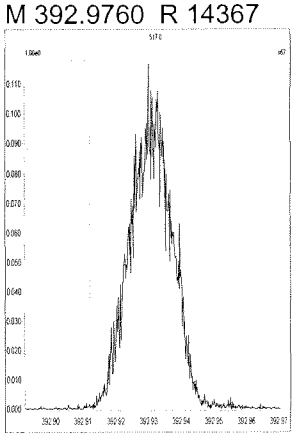


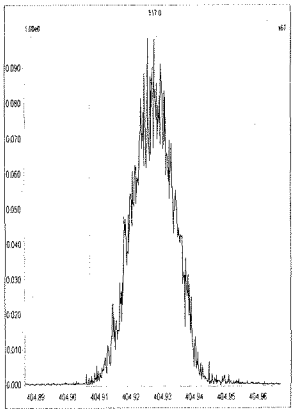
M 380.9760 R 13737



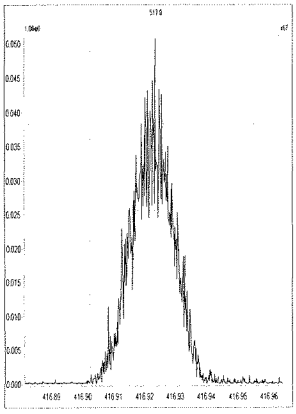
M 392.9760 R 14367



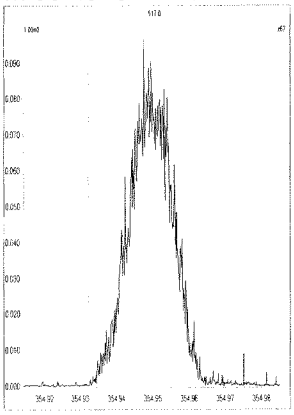
M 404.9760 R 14429



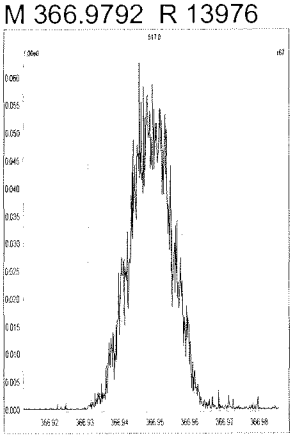
M 416.9760 R 14018



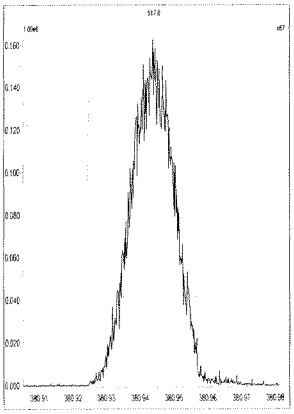
M 354.9792 R 13513



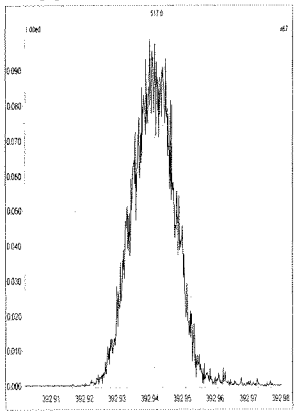
M 366.9792 R 13976



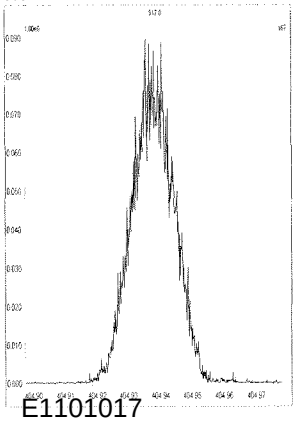
M 380.9760 R 13587



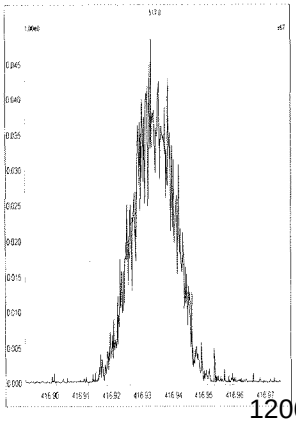
M 392.9760 R 14089



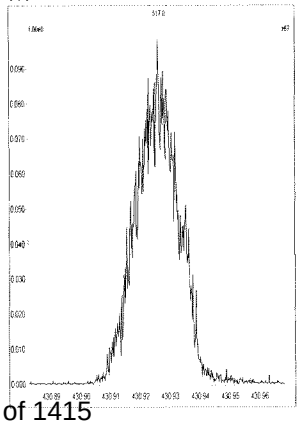
M 404.9760 R 14010



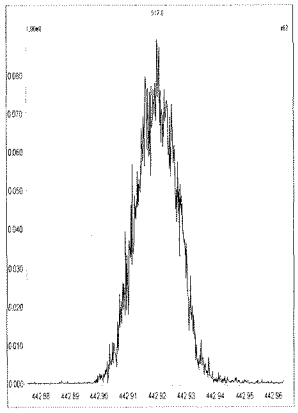
M 416.9760 R 13736



M 430.9728 R 14169



M 442.9728 R 14692



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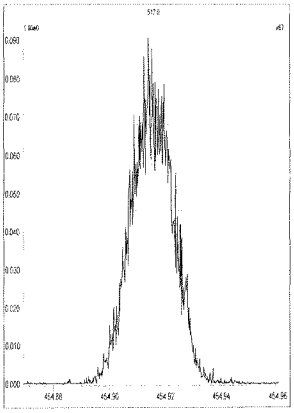
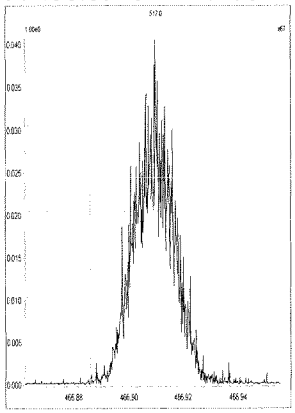
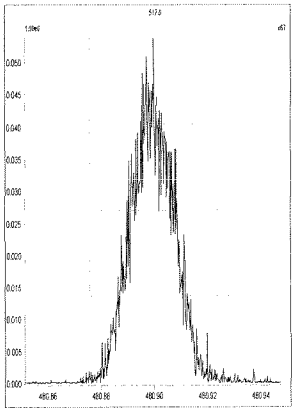
M 454.9728 R 14084



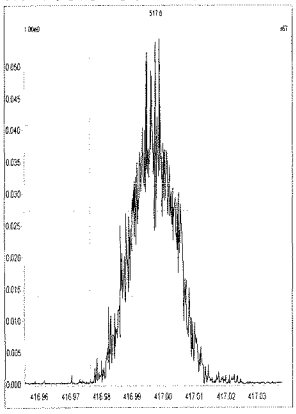
M 466.9728 R 14308



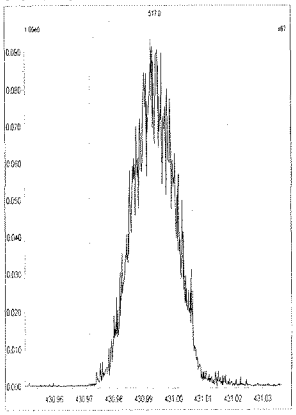
M 480.9696 R 14492



M 416.9760 R 14053



M 430.9728 R 13945



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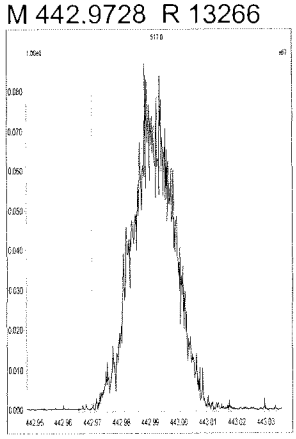
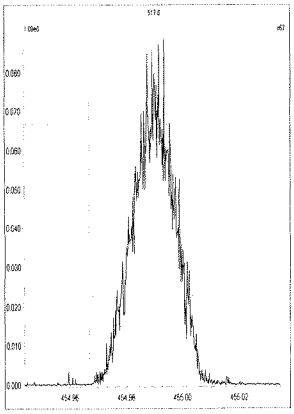
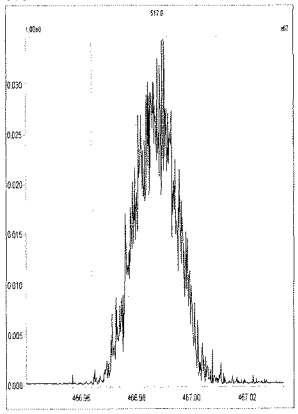


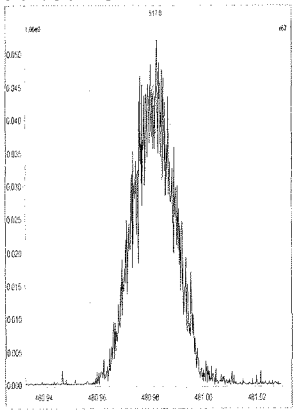
M 454.9728 R 13664



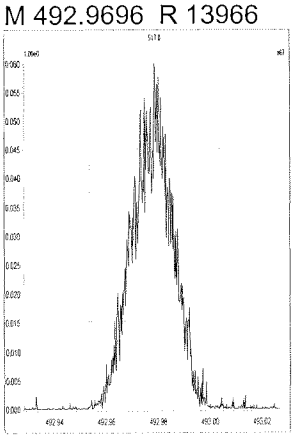
M 466.9728 R 15037



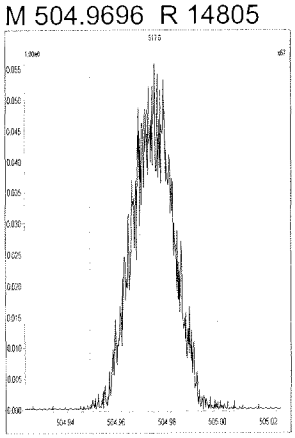
M 480.9696 R 14205



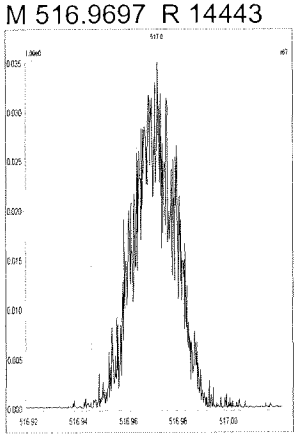
M 492.9696 R 13966



M 504.9696 R 14805



M 516.9697 R 14443



DCCS2091

METHOD 1668
DILUTED COMBINED 209 CONGENER SOLUTION (DCCS-209)

CLIENT ID:

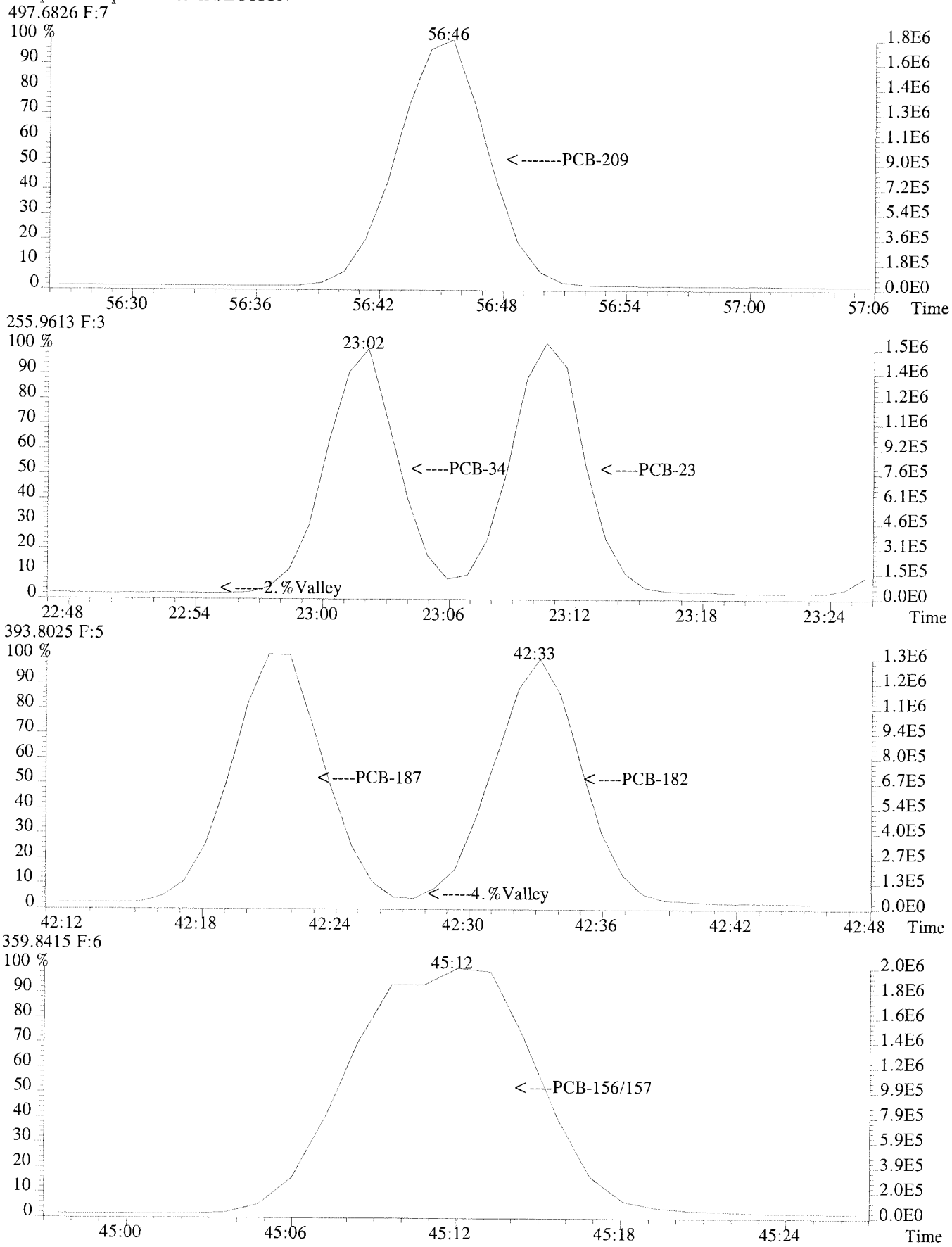
DCCS-209

Lab Name: COLUMBIA ANALYTICAL SERVICES
Lab Code: CAS Case No.: _____ SDG No.:
GC Column: SPB-Octyl ID: 0.25 (mm) Lab File ID: U139139
Date Analyzed: 23-FEB-2011
Time Analyzed: 09:22:35

Retention Time for PCB 209:	(>55 min)	56:46
% Valley between PCB 34 and PCB 23:	(<40%)	2.
% Valley between PCB 187 and PCB 182:	(<40%)	4.
Seconds of coelution between PCB 156 and PCB 157:	(<2 sec)	0

Reference: Section 6.9.1.1 Method 1668

File:U139139 #1-366 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
DCCS-209

Run #2 Filename U139139 Samp: 1 Inj: 1 Acquired: 23-FEB-11 09:22:35
Processed: 23-FEB-11 11:54:19 Sample ID: PCB 209 INJECTION

Cn#	Fxn	Name	RT-1	Resp 1	Resp 2	RatioMeet		Mod?	RRF
1	1	PCB-1	13:02	1.151e+04	3.742e+03	3.08	y	n	1.0666
2	1	PCB-2	15:02	1.059e+04	3.390e+03	3.12	y	n	1.0575
3	1	PCB-3	15:13	1.156e+04	3.719e+03	3.11	y	n	1.0818
4	1	PCB-4	15:28	6.390e+03	4.012e+03	1.59	y	n	1.1746
5	1	PCB-10	15:37	9.245e+03	5.807e+03	1.59	y	n	1.5848
6	2	PCB-9	17:25	7.258e+03	4.631e+03	1.57	y	n	1.2316
7	2	PCB-7	17:35	7.848e+03	5.095e+03	1.54	y	n	1.2598
8	2	PCB-6	17:49	7.384e+03	4.738e+03	1.56	y	n	1.2350
[illegible]	2	PCB-5	18:08	7.437e+03	4.785e+03	1.55	y	n	1.1643
[illegible]	2	PCB-8	18:15	7.522e+03	4.719e+03	1.59	y	n	1.2713
[illegible]	2	PCB-14	19:52	7.177e+03	4.597e+03	1.56	y	n	1.2236
[illegible]	2	PCB-11	20:43	7.471e+03	4.666e+03	1.60	y	n	1.2232
13	2	PCB-12/13	21:02	1.509e+04	9.615e+03	1.57	y	n	1.2167
14	2	PCB-15	21:21	8.076e+03	5.079e+03	1.59	y	n	1.1312
[illegible]	2	PCB-19	18:34	3.852e+03	3.814e+03	1.01	y	n	1.0666
16	2	PCB-18/30	20:22	9.600e+03	9.340e+03	1.03	y	n	1.1053
17	2	PCB-17	20:49	4.140e+03	3.940e+03	1.05	y	n	0.9343
18	2	PCB-27	21:02	5.707e+03	5.498e+03	1.04	y	n	1.3316
19	2	PCB-24	21:09	5.681e+03	5.722e+03	0.99	y	n	1.3004
20	2	PCB-16	21:17	3.412e+03	3.292e+03	1.04	y	n	0.7434
21	2	PCB-32	21:48	5.840e+03	5.718e+03	1.02	y	n	1.3837
22	3	PCB-34	23:02	6.245e+03	5.876e+03	1.06	y	n	1.4141
23	3	PCB-23	23:11	6.754e+03	6.430e+03	1.05	y	n	1.4396
24	3	PCB-26/29	23:30	1.333e+04	1.275e+04	1.05	y	n	1.4982
25	3	PCB-25	23:43	7.733e+03	7.363e+03	1.05	y	n	1.6977
26	3	PCB-31	24:02	6.610e+03	6.267e+03	1.05	y	n	1.5038
[illegible]	3	PCB-20/28	24:21	1.505e+04	1.446e+04	1.04	y	n	1.5821
[illegible]	3	PCB-21/33	24:31	1.411e+04	1.351e+04	1.04	y	n	1.5408
[illegible]	3	PCB-22	24:59	6.831e+03	6.587e+03	1.04	y	n	1.4522
[illegible]	3	PCB-36	26:31	6.638e+03	6.233e+03	1.06	y	y	1.5043
31	3	PCB-39	26:53	7.402e+03	6.909e+03	1.07	y	n	1.5523
32	3	PCB-38	27:27	6.225e+03	5.855e+03	1.06	y	n	1.4038
33	3	PCB-35	27:56	6.226e+03	5.932e+03	1.05	y	n	1.4041
[illegible]	3	PCB-37	28:21	6.418e+03	6.039e+03	1.06	y	n	1.1161
35	2	PCB-54	21:38	8.214e+03	1.077e+04	0.76	y	n	1.1352
36	3	PCB-50/53	23:46	1.427e+04	1.861e+04	0.77	y	n	0.9871
37	3	PCB-45/51	24:29	1.465e+04	1.900e+04	0.77	y	n	0.9807
38	3	PCB-46	24:45	6.403e+03	8.277e+03	0.77	y	n	0.8598
39	3	PCB-52	26:09	6.998e+03	9.201e+03	0.76	y	y	1.0143
40	3	PCB-43/73	26:17	1.627e+04	2.079e+04	0.78	y	y	1.0699
41	3	PCB-49/69	26:34	1.654e+04	2.149e+04	0.77	y	n	1.1574
42	3	PCB-48	26:54	7.477e+03	9.602e+03	0.78	y	n	0.9868
43	3	PCB-44/47/65	27:09	2.406e+04	3.157e+04	0.76	y	n	1.1000
44	3	PCB-59/62/75	27:28	2.858e+04	3.707e+04	0.77	y	n	1.3156
[illegible]	3	PCB-42	27:40	6.948e+03	9.011e+03	0.77	y	n	0.9426
[illegible]	3	PCB-40/41/71	28:10	2.108e+04	2.795e+04	0.75	y	y	0.9716
[illegible]	3	PCB-64	28:23	1.017e+04	1.352e+04	0.75	y	n	1.3928
[illegible]	3	PCB-72	29:11	9.040e+03	1.245e+04	0.73	y	n	1.3389
49	3	PCB-68	29:29	9.976e+03	1.380e+04	0.72	y	y	1.3720
50	3	PCB-57	29:54	8.687e+03	1.223e+04	0.71	y	n	1.2905

51	3	PCB-58	30:08	9.932e+03	1.369e+04	0.73	y	n	1.3476
52	3	PCB-67	30:19	1.094e+04	1.524e+04	0.72	y	n	1.5028
53	3	PCB-63	30:35	9.123e+03	1.284e+04	0.71	y	n	1.3447
54	3	PCB-61/70/74/76	30:55	4.094e+04	5.379e+04	0.76	y	y	1.3659
55	3	PCB-66	31:14	9.412e+03	1.234e+04	0.76	y	n	1.3191
56	3	PCB-55	31:25	9.439e+03	1.259e+04	0.75	y	n	1.2315
57	4	PCB-56	31:56	1.033e+04	1.310e+04	0.79	y	n	1.2931
58	4	PCB-60	32:09	1.033e+04	1.312e+04	0.79	y	n	1.2844
59	4	PCB-80	32:31	1.090e+04	1.381e+04	0.79	y	n	1.4307
[illegible]	4	PCB-79	34:04	1.000e+04	1.268e+04	0.79	y	n	1.3526
[illegible]	4	PCB-78	34:37	8.511e+03	1.121e+04	0.76	y	n	1.1691
[illegible]	4	PCB-81	35:04	8.352e+03	1.065e+04	0.78	y	n	1.1271
[illegible]	4	PCB-77	35:39	8.742e+03	1.090e+04	0.80	y	n	1.0949
64	3	PCB-104	27:04	1.262e+04	8.021e+03	1.57	y	n	1.0712
65	3	PCB-96	27:28	1.134e+04	7.096e+03	1.60	y	n	1.1873
[illegible]	3	PCB-103	29:22	9.045e+03	5.697e+03	1.59	y	n	0.9528
67	3	PCB-94	29:36	8.225e+03	5.224e+03	1.57	y	n	0.8124
68	3	PCB-95	30:03	9.021e+03	5.572e+03	1.62	y	n	0.9202
69	3	PCB-93/100	30:15	1.873e+04	1.156e+04	1.62	y	n	0.9145
70	3	PCB-98/102	30:24	1.944e+04	1.194e+04	1.63	y	n	0.9252
71	3	PCB-88/91	30:54	1.764e+04	1.106e+04	1.59	y	y	0.8779
72	3	PCB-84	31:09	8.179e+03	5.221e+03	1.57	y	n	0.8049
73	3	PCB-89	31:37	8.249e+03	5.091e+03	1.62	y	n	0.8242
74	4	PCB-121	31:59	1.275e+04	8.053e+03	1.58	y	n	1.2111
75	4	PCB-92	32:23	8.126e+03	5.180e+03	1.57	y	n	0.8293
76	4	PCB-90/101/113	32:57	2.874e+04	1.843e+04	1.56	y	n	0.9636
77	4	PCB-83/99	33:32	1.665e+04	1.068e+04	1.56	y	y	0.8360
[illegible]	4	PCB-112	33:40	1.185e+04	7.654e+03	1.55	y	y	1.1704
[illegible]	4	PCB-86/87/97/109/119/125	34:01	5.970e+04	3.823e+04	1.56	y	y	0.9848
[illegible]	4	PCB-117	34:41	1.092e+04	7.069e+03	1.54	y	n	1.0445
[illegible]	4	PCB-85/116	34:45	1.993e+04	1.282e+04	1.55	y	n	1.0221
82	4	PCB-110/115	34:59	2.376e+04	1.504e+04	1.58	y	n	1.1560
83	4	PCB-82	35:16	6.909e+03	4.474e+03	1.54	y	n	0.7098
[illegible]	4	PCB-111	35:38	1.196e+04	7.511e+03	1.59	y	n	1.1457
[illegible]	4	PCB-120	36:05	1.124e+04	7.087e+03	1.59	y	n	1.1569
86	5	PCB-108/124	37:14	2.089e+04	1.338e+04	1.56	y	y	1.0211
87	5	PCB-107	37:29	1.197e+04	7.460e+03	1.61	y	y	1.1388
88	5	PCB-123	37:35	1.106e+04	7.494e+03	1.48	y	y	1.1226
89	5	PCB-106	37:43	1.118e+04	7.092e+03	1.58	y	y	1.0897
90	5	PCB-118	37:55	1.105e+04	6.950e+03	1.59	y	y	1.0466
91	5	PCB-122	38:17	9.810e+03	6.081e+03	1.61	y	y	0.9704
92	5	PCB-114	38:27	1.134e+04	7.202e+03	1.58	y	y	1.1558
93	5	PCB-105	39:07	1.020e+04	6.426e+03	1.59	y	y	1.1219
94	5	PCB-127	40:34	9.639e+03	6.164e+03	1.56	y	y	0.9584
95	5	PCB-126	42:12	9.837e+03	6.235e+03	1.58	y	y	1.1000
[illegible]	4	PCB-155	32:42	1.122e+04	9.055e+03	1.24	y	y	1.0527
[illegible]	4	PCB-152	32:56	9.769e+03	7.758e+03	1.26	y	y	1.5809
[illegible]	4	PCB-150	33:05	1.069e+04	8.676e+03	1.23	y	y	1.6243
[illegible]	4	PCB-136	33:28	9.744e+03	7.678e+03	1.27	y	y	1.5484
100	4	PCB-145	33:45	1.041e+04	8.200e+03	1.27	y	y	1.5519
101	4	PCB-148	35:15	7.090e+03	5.632e+03	1.26	y	y	1.1360
[illegible]	4	PCB-135/151	35:54	1.443e+04	1.148e+04	1.26	y	y	1.1159
103	4	PCB-154	36:04	8.749e+03	6.939e+03	1.26	y	y	1.3417
104	4	PCB-144	36:24	7.195e+03	5.712e+03	1.26	y	y	1.1498
105	5	PCB-147/149	36:46	1.532e+04	1.240e+04	1.24	y	n	1.1457
106	5	PCB-134	36:59	6.226e+03	5.053e+03	1.23	y	n	0.9297
107	5	PCB-143	37:04	6.115e+03	5.013e+03	1.22	y	n	1.0039

108	5	PCB-139/140	37:21	1.479e+04	1.202e+04	1.23	y	n	1.1202
109	5	PCB-131	37:35	6.624e+03	5.308e+03	1.25	y	n	0.9952
110	5	PCB-142	37:43	6.632e+03	5.424e+03	1.22	y	n	0.9967
111	5	PCB-132	38:03	6.495e+03	5.291e+03	1.23	y	n	0.9626
112	5	PCB-133	38:31	6.156e+03	4.968e+03	1.24	y	n	0.9737
113	5	PCB-165	38:54	8.690e+03	6.996e+03	1.24	y	n	1.3058
114	5	PCB-146	39:09	7.554e+03	6.135e+03	1.23	y	n	1.1500
115	5	PCB-161	39:18	8.534e+03	6.741e+03	1.27	y	n	1.3630
116	5	PCB-153/168	39:47	1.659e+04	1.325e+04	1.25	y	n	1.2751
117	5	PCB-141	39:58	6.783e+03	5.443e+03	1.25	y	n	1.0384
118	5	PCB-130	40:23	5.522e+03	4.324e+03	1.28	y	n	0.8712
119	5	PCB-137	40:36	6.683e+03	5.357e+03	1.25	y	n	0.9903
120	5	PCB-164	40:43	8.935e+03	7.099e+03	1.26	y	n	1.3680
121	5	PCB-129/138/163	41:02	2.078e+04	1.669e+04	1.24	y	n	1.0712
122	5	PCB-160	41:11	9.149e+03	7.542e+03	1.21	y	n	1.3432
123	5	PCB-158	41:25	9.681e+03	7.582e+03	1.28	y	n	1.4709
124	5	PCB-128/166	42:16	1.425e+04	1.158e+04	1.23	y	n	1.1215
125	6	PCB-159	43:16	6.212e+03	5.082e+03	1.22	y	n	0.9766
126	6	PCB-162	43:33	7.002e+03	5.553e+03	1.26	y	n	1.0155
127	6	PCB-167	44:02	6.217e+03	5.017e+03	1.24	y	n	1.0787
128	6	PCB-156/157	45:12	1.259e+04	1.023e+04	1.23	y	n	1.0875
129	6	PCB-169	48:26	6.213e+03	4.999e+03	1.24	y	n	1.1417
130	5	PCB-188	38:24	9.083e+03	8.706e+03	1.04	y	n	1.0368
131	5	PCB-179	38:46	8.247e+03	8.031e+03	1.03	y	n	1.2808
132	5	PCB-184	39:16	9.272e+03	8.960e+03	1.03	y	n	1.3356
133	5	PCB-176	39:38	8.246e+03	7.823e+03	1.05	y	n	1.2496
134	5	PCB-186	40:06	8.892e+03	8.402e+03	1.06	y	n	1.2488
135	5	PCB-178	41:27	5.678e+03	5.517e+03	1.03	y	n	0.8677
136	5	PCB-175	42:05	5.951e+03	5.641e+03	1.05	y	n	0.9047
137	5	PCB-187	42:21	6.930e+03	6.746e+03	1.03	y	n	1.0141
138	5	PCB-182	42:33	6.487e+03	6.205e+03	1.05	y	n	0.9507
139	6	PCB-183	42:57	4.016e+03	4.035e+03	1.00	y	n	0.6449
140	6	PCB-185	43:05	4.450e+03	4.350e+03	1.02	y	n	0.5833
141	6	PCB-174	43:13	4.092e+03	4.070e+03	1.01	y	n	0.5948
142	6	PCB-177	43:40	3.762e+03	3.716e+03	1.01	y	n	0.5634
143	6	PCB-181	44:03	4.182e+03	4.120e+03	1.01	y	n	0.5856
144	6	PCB-171/173	44:16	7.359e+03	7.179e+03	1.02	y	n	0.5404
145	6	PCB-172	45:53	3.612e+03	3.587e+03	1.01	y	n	0.5322
146	6	PCB-192	46:10	5.120e+03	5.007e+03	1.02	y	n	0.7015
147	6	PCB-180/193	46:31	9.554e+03	9.413e+03	1.02	y	n	0.6841
148	6	PCB-191	46:54	4.832e+03	4.760e+03	1.02	y	n	0.7160
149	6	PCB-170	47:48	3.501e+03	3.346e+03	1.05	y	n	0.5014
150	6	PCB-190	48:20	4.782e+03	4.835e+03	0.99	y	y	0.7096
151	6	PCB-189	50:54	5.493e+03	5.422e+03	1.01	y	n	0.9627
152	6	PCB-202	43:46	7.716e+03	8.662e+03	0.89	y	n	0.9487
153	6	PCB-201	44:41	7.084e+03	8.269e+03	0.86	y	n	1.0376
154	6	PCB-204	45:21	7.293e+03	8.121e+03	0.90	y	n	1.0298
155	6	PCB-197	45:34	8.322e+03	9.427e+03	0.88	y	n	1.1315
156	6	PCB-200	45:42	7.009e+03	7.870e+03	0.89	y	n	0.9908
157	6	PCB-198/199	48:28	1.075e+04	1.228e+04	0.88	y	n	0.7229
158	6	PCB-196	49:08	6.063e+03	6.912e+03	0.88	y	n	0.7859
159	6	PCB-203	49:21	6.824e+03	7.753e+03	0.88	y	n	0.8424
160	6	PCB-195	50:41	5.790e+03	6.438e+03	0.90	y	n	0.7280
161	6	PCB-194	52:59	4.921e+03	5.586e+03	0.88	y	n	0.6682
162	6	PCB-205	53:28	6.667e+03	7.653e+03	0.87	y	n	0.9442
163	6	PCB-208	50:24	6.159e+03	7.871e+03	0.78	y	n	1.0072
164	6	PCB-207	51:19	5.420e+03	6.982e+03	0.78	y	n	1.0881

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165	7	PCB-206	55:11	4.653e+03	6.069e+03	0.77	y	n	1.0055
166	7	PCB-209	56:45	8.461e+03	7.159e+03	1.18	y	n	1.0655
167	1	PCB-1L	13:02	3.951e+04	1.275e+04	3.10	y	n	1.1105
168	1	PCB-3L	15:12	3.929e+04	1.253e+04	3.14	y	n	1.1185
169	1	PCB-4L	15:26	1.978e+04	1.268e+04	1.56	y	n	0.7143
170	2	PCB-15L	21:20	2.500e+04	1.619e+04	1.54	y	n	0.9198
171	2	PCB-19L	18:32	1.329e+04	1.298e+04	1.02	y	n	0.5728
172	3	PCB-37L	28:20	2.038e+04	1.928e+04	1.06	y	n	1.1984
173	2	PCB-54L	21:37	1.373e+04	1.726e+04	0.80	y	n	0.9434
174	4	PCB-81L	35:03	1.418e+04	1.750e+04	0.81	y	n	0.9650
175	4	PCB-77L	35:37	1.431e+04	1.810e+04	0.79	y	n	0.9560
176	3	PCB-104L	27:03	2.130e+04	1.366e+04	1.56	y	n	1.2477
177	5	PCB-123L	37:35	1.793e+04	1.148e+04	1.56	y	n	1.0121
178	5	PCB-118L	37:54	1.820e+04	1.150e+04	1.58	y	n	1.0412
179	5	PCB-114L	38:26	1.716e+04	1.078e+04	1.59	y	n	0.9798
180	5	PCB-105L	39:06	1.694e+04	1.063e+04	1.59	y	n	0.9709
181	5	PCB-126L	42:11	1.618e+04	1.041e+04	1.55	y	n	0.8968
182	4	PCB-155L	32:41	1.942e+04	1.543e+04	1.26	y	n	1.4382
183	6	PCB-167L	43:59	1.076e+04	8.632e+03	1.25	y	n	0.7864
184	6	PCB-156/157L	45:10	2.110e+04	1.641e+04	1.29	y	n	0.7553
185	6	PCB-169L	48:25	9.890e+03	7.614e+03	1.30	y	n	0.6581
186	5	PCB-188L	38:22	1.596e+04	1.504e+04	1.06	y	n	2.3395
187	6	PCB-189L	50:53	1.022e+04	9.887e+03	1.03	y	n	1.3367
188	6	PCB-202L	43:45	9.769e+03	1.086e+04	0.90	y	n	1.5472
189	6	PCB-205L	53:25	8.589e+03	9.567e+03	0.90	y	n	1.2832
190	6	PCB-208L	50:22	7.423e+03	9.297e+03	0.80	y	n	1.1831
191	7	PCB-206L	55:09	5.576e+03	7.186e+03	0.78	y	n	0.8743
192	7	PCB-209L	56:43	9.083e+03	7.535e+03	1.21	y	n	1.1942
193	3	PCB-28L	24:19	2.541e+04	2.421e+04	1.05	y	n	1.4085
194	4	PCB-111L	35:36	1.993e+04	1.250e+04	1.59	y	n	1.1479
195	5	PCB-178L	41:26	9.851e+03	9.360e+03	1.05	y	n	0.7741
196	2	PCB-9L	17:24	2.711e+04	1.729e+04	1.57	y	n	-
197	3	PCB-52L	26:07	1.410e+04	1.796e+04	0.78	y	n	-
198	4	PCB-101L	32:56	1.750e+04	1.086e+04	1.61	y	n	-
199	5	PCB-138L	40:59	1.441e+04	1.141e+04	1.26	y	n	-
200	6	PCB-194L	52:58	6.368e+03	6.962e+03	0.91	y	n	-

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02/2009

Columbia Analytical Services, Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
DCCS-209

Run #2 Filename U139139#1 Samp: 1 Inj: 1 Acquired: 23-FEB-11 09:22:35

Processed: 23-FEB-11 11:54:19 LAB. ID: PCB 209 INJECTION

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	PCB-1	3.24e+06	4.50e+03	7.2e+02	1.07e+06	4.22e+03	2.5e+02
2	PCB-2	2.67e+06	4.50e+03	5.9e+02	8.65e+05	4.22e+03	2.0e+02
3	PCB-3	2.93e+06	4.50e+03	6.5e+02	9.47e+05	4.22e+03	2.2e+02
	PCB-4	1.59e+06	3.40e+03	4.7e+02	1.00e+06	1.13e+04	8.8e+01
	PCB-10	2.30e+06	3.40e+03	6.8e+02	1.47e+06	1.13e+04	1.3e+02
	PCB-9	1.92e+06	2.46e+03	7.8e+02	1.23e+06	1.25e+04	9.8e+01
7	PCB-7	2.02e+06	2.46e+03	8.2e+02	1.31e+06	1.25e+04	1.0e+02
8	PCB-6	1.84e+06	2.46e+03	7.5e+02	1.19e+06	1.25e+04	9.5e+01
9	PCB-5	1.86e+06	2.46e+03	7.6e+02	1.20e+06	1.25e+04	9.6e+01
10	PCB-8	1.92e+06	2.46e+03	7.8e+02	1.22e+06	1.25e+04	9.7e+01
11	PCB-14	1.68e+06	2.46e+03	6.9e+02	1.07e+06	1.25e+04	8.5e+01
12	PCB-11	1.65e+06	2.46e+03	6.7e+02	1.05e+06	1.25e+04	8.4e+01
13	PCB-12/13	2.81e+06	2.46e+03	1.1e+03	1.81e+06	1.25e+04	1.4e+02
14	PCB-15	1.72e+06	2.46e+03	7.0e+02	1.10e+06	1.25e+04	8.8e+01
15	PCB-19	9.42e+05	2.39e+03	3.9e+02	9.20e+05	1.30e+03	7.1e+02
16	PCB-18/30	1.57e+06	2.39e+03	6.6e+02	1.53e+06	1.30e+03	1.2e+03
17	PCB-17	1.01e+06	2.39e+03	4.2e+02	9.57e+05	1.30e+03	7.4e+02
18	PCB-27	1.36e+06	2.39e+03	5.7e+02	1.30e+06	1.30e+03	1.0e+03
19	PCB-24	1.35e+06	2.39e+03	5.6e+02	1.36e+06	1.30e+03	1.0e+03
20	PCB-16	8.38e+05	2.39e+03	3.5e+02	7.99e+05	1.30e+03	6.1e+02
	PCB-32	1.39e+06	2.39e+03	5.8e+02	1.36e+06	1.30e+03	1.0e+03
	PCB-34	1.30e+06	4.06e+03	3.2e+02	1.21e+06	7.15e+03	1.7e+02
	PCB-23	1.41e+06	4.06e+03	3.5e+02	1.33e+06	7.15e+03	1.9e+02
24	PCB-26/29	2.59e+06	4.06e+03	6.4e+02	2.47e+06	7.15e+03	3.5e+02
25	PCB-25	1.50e+06	4.06e+03	3.7e+02	1.44e+06	7.15e+03	2.0e+02
26	PCB-31	1.35e+06	4.06e+03	3.3e+02	1.30e+06	7.15e+03	1.8e+02
27	PCB-20/28	2.54e+06	4.06e+03	6.2e+02	2.41e+06	7.15e+03	3.4e+02
28	PCB-21/33	1.66e+06	4.06e+03	4.1e+02	1.56e+06	7.15e+03	2.2e+02
29	PCB-22	1.40e+06	4.06e+03	3.4e+02	1.34e+06	7.15e+03	1.9e+02
30	PCB-36	1.24e+06	4.06e+03	3.1e+02	1.20e+06	7.15e+03	1.7e+02
31	PCB-39	1.41e+06	4.06e+03	3.5e+02	1.33e+06	7.15e+03	1.9e+02
32	PCB-38	1.18e+06	4.06e+03	2.9e+02	1.13e+06	7.15e+03	1.6e+02
33	PCB-35	1.11e+06	4.06e+03	2.7e+02	1.06e+06	7.15e+03	1.5e+02
34	PCB-37	1.21e+06	4.06e+03	3.0e+02	1.14e+06	7.15e+03	1.6e+02
35	PCB-54	1.93e+06	1.27e+03	1.5e+03	2.54e+06	1.13e+03	2.2e+03
36	PCB-50/53	2.92e+06	9.36e+02	3.1e+03	3.78e+06	1.04e+03	3.7e+03
37	PCB-45/51	1.79e+06	9.36e+02	1.9e+03	2.30e+06	1.04e+03	2.2e+03
38	PCB-46	1.30e+06	9.36e+02	1.4e+03	1.68e+06	1.04e+03	1.6e+03
	PCB-52	1.43e+06	9.36e+02	1.5e+03	1.91e+06	1.04e+03	1.8e+03
	PCB-43/73	2.00e+06	9.36e+02	2.1e+03	2.54e+06	1.04e+03	2.5e+03
	PCB-49/69	2.04e+06	9.36e+02	2.2e+03	2.73e+06	1.04e+03	2.6e+03
42	PCB-48	1.47e+06	9.36e+02	1.6e+03	1.90e+06	1.04e+03	1.8e+03
43	PCB-44/47/65	4.27e+06	9.36e+02	4.6e+03	5.69e+06	1.04e+03	5.5e+03
44	PCB-59/62/75	4.22e+06	9.36e+02	4.5e+03	5.41e+06	1.04e+03	5.2e+03
45	PCB-42	1.36e+06	9.36e+02	1.5e+03	1.78e+06	1.04e+03	1.7e+03
46	PCB-40/41/71	3.06e+06	9.36e+02	3.3e+03	4.06e+06	1.04e+03	3.9e+03
47	PCB-64	2.01e+06	9.36e+02	2.1e+03	2.66e+06	1.04e+03	2.6e+03

Run #2 Filename U139139#1 Samp: 1 Acquired: 23-FEB-11 09:22:35

48	PCB-72	1.82e+06	9.36e+02	1.9e+03	2.44e+06	1.04e+03	2.4e+03
49	PCB-68	1.96e+06	9.36e+02	2.1e+03	2.62e+06	1.04e+03	2.5e+03
50	PCB-57	1.69e+06	9.36e+02	1.8e+03	2.30e+06	1.04e+03	2.2e+03
51	PCB-58	1.93e+06	9.36e+02	2.1e+03	2.53e+06	1.04e+03	2.4e+03
52	PCB-67	2.01e+06	9.36e+02	2.1e+03	2.63e+06	1.04e+03	2.5e+03
	PCB-63	1.77e+06	9.36e+02	1.9e+03	2.39e+06	1.04e+03	2.3e+03
	PCB-61/70/74/76	4.24e+06	9.36e+02	4.5e+03	5.51e+06	1.04e+03	5.3e+03
	PCB-66	1.78e+06	9.36e+02	1.9e+03	2.30e+06	1.04e+03	2.2e+03
56	PCB-55	1.80e+06	9.36e+02	1.9e+03	2.47e+06	1.04e+03	2.4e+03
57	PCB-56	1.95e+06	5.62e+03	3.5e+02	2.48e+06	5.74e+03	4.3e+02
58	PCB-60	1.92e+06	5.62e+03	3.4e+02	2.47e+06	5.74e+03	4.3e+02
	PCB-80	2.05e+06	5.62e+03	3.7e+02	2.56e+06	5.74e+03	4.5e+02
60	PCB-79	1.69e+06	5.62e+03	3.0e+02	2.18e+06	5.74e+03	3.8e+02
61	PCB-78	1.53e+06	5.62e+03	2.7e+02	2.01e+06	5.74e+03	3.5e+02
62	PCB-81	1.48e+06	5.62e+03	2.6e+02	1.89e+06	5.74e+03	3.3e+02
63	PCB-77	1.57e+06	5.62e+03	2.8e+02	1.93e+06	5.74e+03	3.4e+02
64	PCB-104	2.55e+06	1.36e+03	1.9e+03	1.62e+06	1.23e+03	1.3e+03
65	PCB-96	2.24e+06	1.36e+03	1.6e+03	1.39e+06	1.23e+03	1.1e+03
66	PCB-103	1.80e+06	1.36e+03	1.3e+03	1.13e+06	1.23e+03	9.2e+02
67	PCB-94	1.62e+06	1.36e+03	1.2e+03	1.01e+06	1.23e+03	8.2e+02
68	PCB-95	1.73e+06	1.36e+03	1.3e+03	1.09e+06	1.23e+03	8.8e+02
69	PCB-93/100	2.84e+06	1.36e+03	2.1e+03	1.76e+06	1.23e+03	1.4e+03
	PCB-98/102	2.20e+06	1.36e+03	1.6e+03	1.35e+06	1.23e+03	1.1e+03
	PCB-88/91	1.87e+06	1.36e+03	1.4e+03	1.15e+06	1.23e+03	9.3e+02
	PCB-84	1.59e+06	1.36e+03	1.2e+03	1.04e+06	1.23e+03	8.4e+02
	PCB-89	1.58e+06	1.36e+03	1.2e+03	9.68e+05	1.23e+03	7.9e+02
74	PCB-121	2.47e+06	5.71e+03	4.3e+02	1.56e+06	4.32e+03	3.6e+02
75	PCB-92	1.54e+06	5.71e+03	2.7e+02	9.86e+05	4.32e+03	2.3e+02
76	PCB-90/101/113	4.35e+06	5.71e+03	7.6e+02	2.80e+06	4.32e+03	6.5e+02
	PCB-83/99	1.94e+06	5.71e+03	3.4e+02	1.21e+06	4.32e+03	2.8e+02
78	PCB-112	2.20e+06	5.71e+03	3.8e+02	1.43e+06	4.32e+03	3.3e+02
79	CB-86/87/97/109/119/125	6.04e+06	5.71e+03	1.1e+03	3.91e+06	4.32e+03	9.1e+02
80	PCB-117	2.39e+06	5.71e+03	4.2e+02	1.54e+06	4.32e+03	3.6e+02
81	PCB-85/116	3.44e+06	5.71e+03	6.0e+02	2.24e+06	4.32e+03	5.2e+02
82	PCB-110/115	2.99e+06	5.71e+03	5.2e+02	1.88e+06	4.32e+03	4.4e+02
83	PCB-82	1.26e+06	5.71e+03	2.2e+02	8.16e+05	4.32e+03	1.9e+02
84	PCB-111	2.18e+06	5.71e+03	3.8e+02	1.39e+06	4.32e+03	3.2e+02
85	PCB-120	2.06e+06	5.71e+03	3.6e+02	1.31e+06	4.32e+03	3.0e+02
86	PCB-108/124	3.81e+06	9.55e+04	4.0e+01	2.41e+06	6.37e+04	3.8e+01
87	PCB-107	2.11e+06	9.55e+04	2.2e+01	1.35e+06	6.37e+04	2.1e+01
88	PCB-123	2.11e+06	9.55e+04	2.2e+01	1.39e+06	6.37e+04	2.2e+01
	PCB-106	2.06e+06	9.55e+04	2.2e+01	1.32e+06	6.37e+04	2.1e+01
	PCB-118	2.02e+06	9.55e+04	2.1e+01	1.27e+06	6.37e+04	2.0e+01
	PCB-122	1.80e+06	9.55e+04	1.9e+01	1.14e+06	6.37e+04	1.8e+01
	PCB-114	2.02e+06	9.55e+04	2.1e+01	1.27e+06	6.37e+04	2.0e+01
93	PCB-105	1.79e+06	9.55e+04	1.9e+01	1.14e+06	6.37e+04	1.8e+01
94	PCB-127	1.73e+06	9.55e+04	1.8e+01	1.09e+06	6.37e+04	1.7e+01
95	PCB-126	1.63e+06	9.55e+04	1.7e+01	1.04e+06	6.37e+04	1.6e+01
96	PCB-155	2.29e+06	2.56e+03	9.0e+02	1.87e+06	1.33e+03	1.4e+03
97	PCB-152	2.07e+06	2.56e+03	8.1e+02	1.64e+06	1.33e+03	1.2e+03
98	PCB-150	2.12e+06	2.56e+03	8.3e+02	1.79e+06	1.33e+03	1.3e+03
99	PCB-136	2.01e+06	2.56e+03	7.8e+02	1.56e+06	1.33e+03	1.2e+03
100	PCB-145	2.14e+06	2.56e+03	8.4e+02	1.64e+06	1.33e+03	1.2e+03
101	PCB-148	1.42e+06	2.56e+03	5.5e+02	1.16e+06	1.33e+03	8.7e+02
102	PCB-135/151	1.60e+06	2.56e+03	6.2e+02	1.25e+06	1.33e+03	9.4e+02
103	PCB-154	1.81e+06	2.56e+03	7.1e+02	1.45e+06	1.33e+03	1.1e+03
104	PCB-144	1.43e+06	2.56e+03	5.6e+02	1.16e+06	1.33e+03	8.7e+02

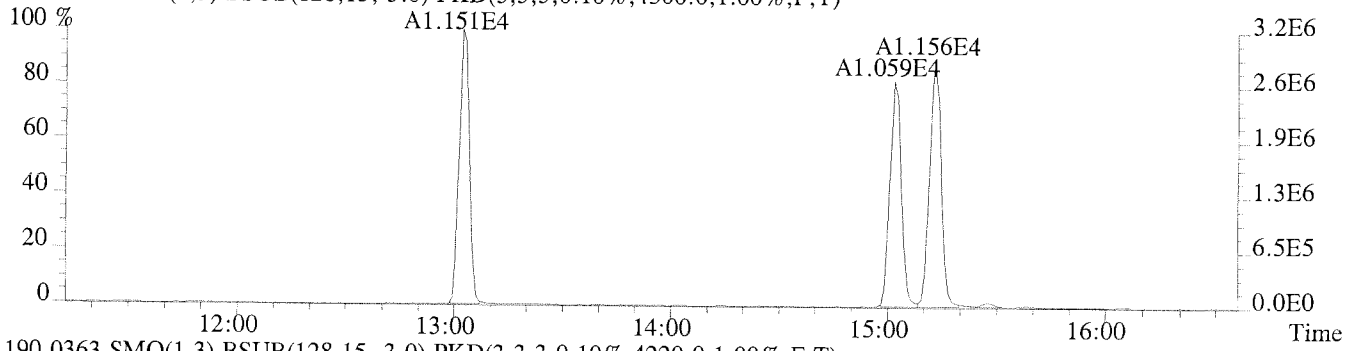
105	PCB-147/149	2.81e+06	2.98e+03	9.5e+02	2.28e+06	4.30e+03	5.3e+02
106	PCB-134	1.17e+06	2.98e+03	3.9e+02	9.29e+05	4.30e+03	2.2e+02
107	PCB-143	1.21e+06	2.98e+03	4.1e+02	9.97e+05	4.30e+03	2.3e+02
108	PCB-139/140	2.50e+06	2.98e+03	8.4e+02	2.00e+06	4.30e+03	4.7e+02
109	PCB-131	1.25e+06	2.98e+03	4.2e+02	9.96e+05	4.30e+03	2.3e+02
110	PCB-142	1.21e+06	2.98e+03	4.1e+02	1.00e+06	4.30e+03	2.3e+02
111	PCB-132	1.21e+06	2.98e+03	4.1e+02	9.87e+05	4.30e+03	2.3e+02
112	PCB-133	1.11e+06	2.98e+03	3.7e+02	9.08e+05	4.30e+03	2.1e+02
113	PCB-165	1.54e+06	2.98e+03	5.2e+02	1.28e+06	4.30e+03	3.0e+02
114	PCB-146	1.39e+06	2.98e+03	4.7e+02	1.13e+06	4.30e+03	2.6e+02
115	PCB-161	1.53e+06	2.98e+03	5.2e+02	1.23e+06	4.30e+03	2.9e+02
116	PCB-153/168	2.26e+06	2.98e+03	7.6e+02	1.83e+06	4.30e+03	4.2e+02
117	PCB-141	1.19e+06	2.98e+03	4.0e+02	9.85e+05	4.30e+03	2.3e+02
118	PCB-130	9.79e+05	2.98e+03	3.3e+02	7.86e+05	4.30e+03	1.8e+02
119	PCB-137	1.25e+06	2.98e+03	4.2e+02	1.00e+06	4.30e+03	2.3e+02
120	PCB-164	1.62e+06	2.98e+03	5.4e+02	1.29e+06	4.30e+03	3.0e+02
121	PCB-129/138/163	3.03e+06	2.98e+03	1.0e+03	2.46e+06	4.30e+03	5.7e+02
122	PCB-160	1.58e+06	2.98e+03	5.3e+02	1.33e+06	4.30e+03	3.1e+02
123	PCB-158	1.73e+06	2.98e+03	5.8e+02	1.37e+06	4.30e+03	3.2e+02
124	PCB-128/166	1.86e+06	2.98e+03	6.3e+02	1.54e+06	4.30e+03	3.6e+02
125	PCB-159	1.35e+06	1.88e+03	7.2e+02	1.10e+06	1.80e+03	6.1e+02
126	PCB-162	1.49e+06	1.88e+03	7.9e+02	1.18e+06	1.80e+03	6.6e+02
127	PCB-167	1.33e+06	1.88e+03	7.1e+02	1.06e+06	1.80e+03	5.9e+02
128	PCB-156/157	1.89e+06	1.88e+03	1.0e+03	1.52e+06	1.80e+03	8.5e+02
129	PCB-169	1.31e+06	1.88e+03	6.9e+02	1.04e+06	1.80e+03	5.8e+02
130	PCB-188	1.69e+06	1.23e+03	1.4e+03	1.61e+06	8.80e+02	1.8e+03
131	PCB-179	1.51e+06	1.23e+03	1.2e+03	1.47e+06	8.80e+02	1.7e+03
132	PCB-184	1.68e+06	1.23e+03	1.4e+03	1.64e+06	8.80e+02	1.9e+03
133	PCB-176	1.51e+06	1.23e+03	1.2e+03	1.44e+06	8.80e+02	1.6e+03
134	PCB-186	1.63e+06	1.23e+03	1.3e+03	1.54e+06	8.80e+02	1.7e+03
135	PCB-178	1.04e+06	1.23e+03	8.5e+02	1.01e+06	8.80e+02	1.1e+03
136	PCB-175	1.11e+06	1.23e+03	9.0e+02	1.04e+06	8.80e+02	1.2e+03
137	PCB-187	1.24e+06	1.23e+03	1.0e+03	1.19e+06	8.80e+02	1.3e+03
138	PCB-182	1.19e+06	1.23e+03	9.7e+02	1.15e+06	8.80e+02	1.3e+03
139	PCB-183	9.11e+05	2.72e+03	3.4e+02	9.15e+05	1.24e+03	7.4e+02
140	PCB-185	9.52e+05	2.72e+03	3.5e+02	9.42e+05	1.24e+03	7.6e+02
141	PCB-174	8.91e+05	2.72e+03	3.3e+02	8.77e+05	1.24e+03	7.1e+02
142	PCB-177	8.21e+05	2.72e+03	3.0e+02	8.13e+05	1.24e+03	6.6e+02
143	PCB-181	9.53e+05	2.72e+03	3.5e+02	9.21e+05	1.24e+03	7.4e+02
144	PCB-171/173	1.54e+06	2.72e+03	5.7e+02	1.49e+06	1.24e+03	1.2e+03
145	PCB-172	7.97e+05	2.72e+03	2.9e+02	7.89e+05	1.24e+03	6.4e+02
146	PCB-192	1.09e+06	2.72e+03	4.0e+02	1.09e+06	1.24e+03	8.8e+02
147	PCB-180/193	1.68e+06	2.72e+03	6.2e+02	1.65e+06	1.24e+03	1.3e+03
148	PCB-191	1.07e+06	2.72e+03	3.9e+02	1.06e+06	1.24e+03	8.5e+02
149	PCB-170	7.42e+05	2.72e+03	2.7e+02	7.18e+05	1.24e+03	5.8e+02
150	PCB-190	1.01e+06	2.72e+03	3.7e+02	1.02e+06	1.24e+03	8.3e+02
151	PCB-189	1.20e+06	2.72e+03	4.4e+02	1.19e+06	1.24e+03	9.6e+02
152	PCB-202	1.75e+06	1.15e+03	1.5e+03	1.90e+06	1.09e+03	1.7e+03
153	PCB-201	1.57e+06	1.15e+03	1.4e+03	1.83e+06	1.09e+03	1.7e+03
154	PCB-204	1.62e+06	1.15e+03	1.4e+03	1.82e+06	1.09e+03	1.7e+03
155	PCB-197	1.77e+06	1.15e+03	1.5e+03	2.02e+06	1.09e+03	1.9e+03
156	PCB-200	1.60e+06	1.15e+03	1.4e+03	1.78e+06	1.09e+03	1.6e+03
157	PCB-198/199	1.65e+06	1.15e+03	1.4e+03	1.91e+06	1.09e+03	1.8e+03
158	PCB-196	1.31e+06	1.15e+03	1.1e+03	1.51e+06	1.09e+03	1.4e+03
159	PCB-203	1.45e+06	1.15e+03	1.3e+03	1.65e+06	1.09e+03	1.5e+03
160	PCB-195	1.31e+06	1.15e+03	1.1e+03	1.46e+06	1.09e+03	1.3e+03
161	PCB-194	1.06e+06	1.15e+03	9.2e+02	1.22e+06	1.09e+03	1.1e+03
162	PCB-205	1.39e+06	1.15e+03	1.2e+03	1.61e+06	1.09e+03	1.5e+03

Run #2 Filename U139139#1 Samp: 1 Acquired: 23-FEB-11 09:22:35

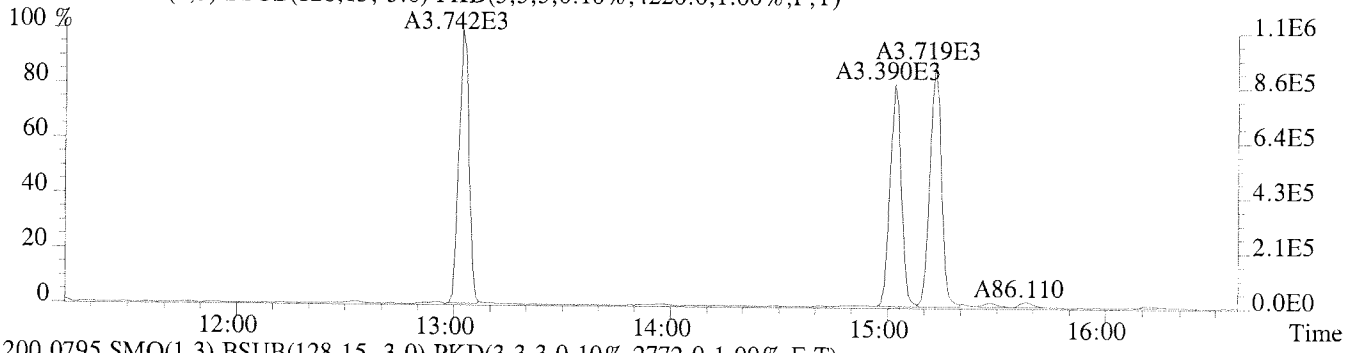
163	PCB-208	1.30e+06	1.06e+03	1.2e+03	1.67e+06	1.16e+03	1.4e+03
164	PCB-207	1.18e+06	1.06e+03	1.1e+03	1.52e+06	1.16e+03	1.3e+03
165	PCB-206	9.00e+05	1.20e+03	7.5e+02	1.18e+06	1.75e+03	6.7e+02
166	PCB-209	1.60e+06	9.96e+02	1.6e+03	1.36e+06	9.56e+02	1.4e+03
167	PCB-1L	1.11e+07	2.77e+03	4.0e+03	3.54e+06	6.07e+04	5.8e+01
168	PCB-3L	9.91e+06	2.77e+03	3.6e+03	3.17e+06	6.07e+04	5.2e+01
169	PCB-4L	5.01e+06	8.78e+03	5.7e+02	3.26e+06	2.46e+03	1.3e+03
[illegible]	PCB-15L	5.59e+06	5.04e+03	1.1e+03	3.58e+06	4.37e+03	8.2e+02
[illegible]	PCB-19L	3.22e+06	3.81e+04	8.4e+01	3.15e+06	1.81e+04	1.7e+02
172	PCB-37L	3.77e+06	2.98e+04	1.3e+02	3.55e+06	1.30e+04	2.7e+02
173	PCB-54L	3.14e+06	3.93e+03	8.0e+02	3.99e+06	2.29e+03	1.7e+03
174	PCB-81L	2.60e+06	3.14e+03	8.3e+02	3.20e+06	2.06e+03	1.5e+03
175	PCB-77L	2.48e+06	3.14e+03	7.9e+02	3.18e+06	2.06e+03	1.5e+03
176	PCB-104L	4.21e+06	1.18e+03	3.6e+03	2.70e+06	1.21e+03	2.2e+03
177	PCB-123L	3.30e+06	4.18e+03	7.9e+02	2.15e+06	3.60e+03	6.0e+02
178	PCB-118L	3.27e+06	4.18e+03	7.8e+02	2.10e+06	3.60e+03	5.8e+02
179	PCB-114L	3.08e+06	4.18e+03	7.4e+02	1.95e+06	3.60e+03	5.4e+02
180	PCB-105L	3.10e+06	4.18e+03	7.4e+02	1.94e+06	3.60e+03	5.4e+02
181	PCB-126L	2.86e+06	4.18e+03	6.8e+02	1.84e+06	3.60e+03	5.1e+02
182	PCB-155L	3.71e+06	1.39e+03	2.7e+03	2.97e+06	1.23e+03	2.4e+03
183	PCB-167L	2.34e+06	1.10e+03	2.1e+03	1.89e+06	1.08e+03	1.8e+03
184	PCB-156/157L	3.16e+06	1.10e+03	2.9e+03	2.45e+06	1.08e+03	2.3e+03
185	PCB-169L	2.06e+06	1.10e+03	1.9e+03	1.58e+06	1.08e+03	1.5e+03
186	PCB-188L	2.97e+06	1.42e+03	2.1e+03	2.79e+06	8.72e+02	3.2e+03
187	PCB-189L	2.32e+06	1.22e+03	1.9e+03	2.28e+06	1.25e+03	1.8e+03
[illegible]	PCB-202L	2.16e+06	1.04e+03	2.1e+03	2.39e+06	1.06e+03	2.3e+03
[illegible]	PCB-205L	1.83e+06	1.04e+03	1.8e+03	2.03e+06	1.06e+03	1.9e+03
[illegible]	PCB-208L	1.62e+06	1.13e+03	1.4e+03	2.03e+06	1.08e+03	1.9e+03
191	PCB-206L	1.06e+06	1.01e+03	1.0e+03	1.36e+06	8.96e+02	1.5e+03
192	PCB-209L	1.80e+06	1.04e+03	1.7e+03	1.47e+06	9.36e+02	1.6e+03
193	PCB-28L	5.17e+06	2.98e+04	1.7e+02	4.93e+06	1.30e+04	3.8e+02
194	PCB-111L	3.74e+06	2.04e+03	1.8e+03	2.36e+06	2.05e+03	1.1e+03
195	PCB-178L	1.77e+06	1.42e+03	1.2e+03	1.69e+06	8.72e+02	1.9e+03
196	PCB-9L	7.10e+06	5.04e+03	1.4e+03	4.51e+06	4.37e+03	1.0e+03
197	PCB-52L	2.83e+06	2.64e+03	1.1e+03	3.56e+06	1.48e+03	2.4e+03
198	PCB-101L	3.28e+06	2.04e+03	1.6e+03	2.06e+06	2.05e+03	1.0e+03
199	PCB-138L	2.61e+06	1.35e+03	1.9e+03	2.06e+06	1.11e+03	1.9e+03
200	PCB-194L	1.40e+06	1.04e+03	1.3e+03	1.53e+06	1.06e+03	1.4e+03

File:U139139 #1-347 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

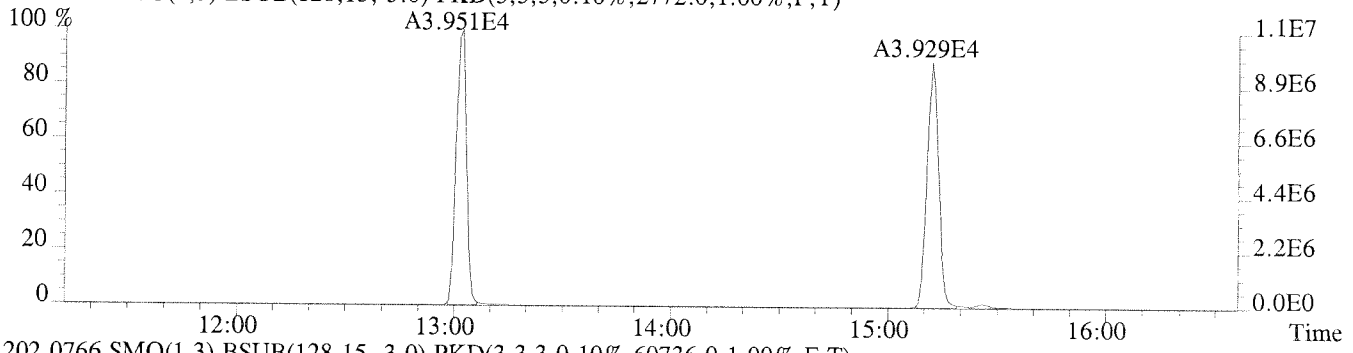
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4500.0,1.00%,F,T)



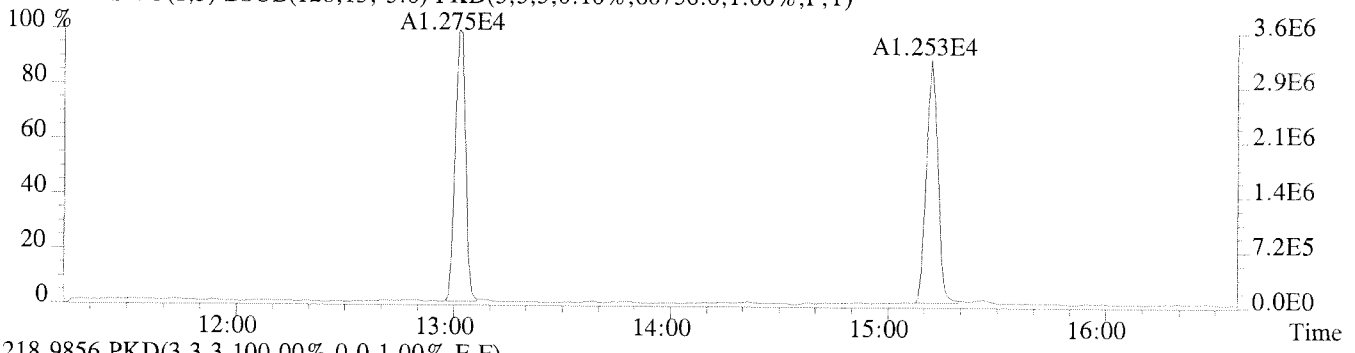
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4220.0,1.00%,F,T)



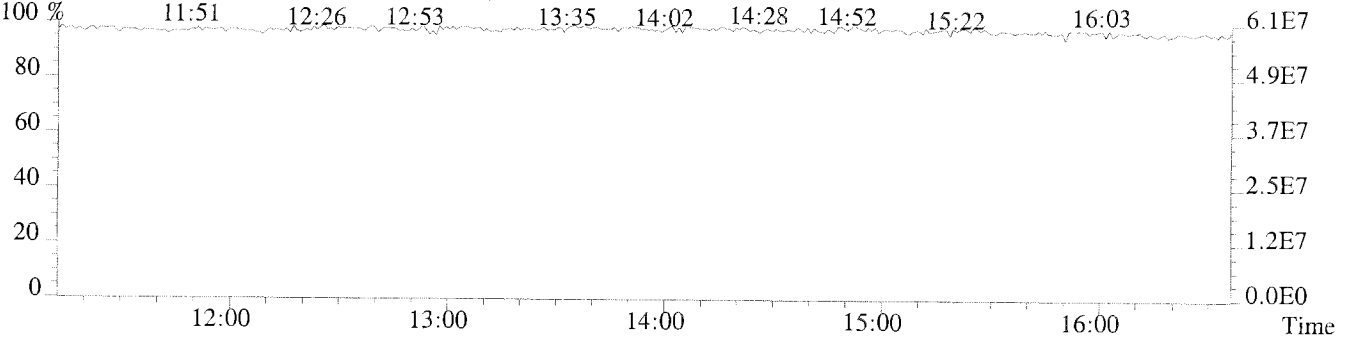
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2772.0,1.00%,F,T)



202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,60736.0,1.00%,F,T)

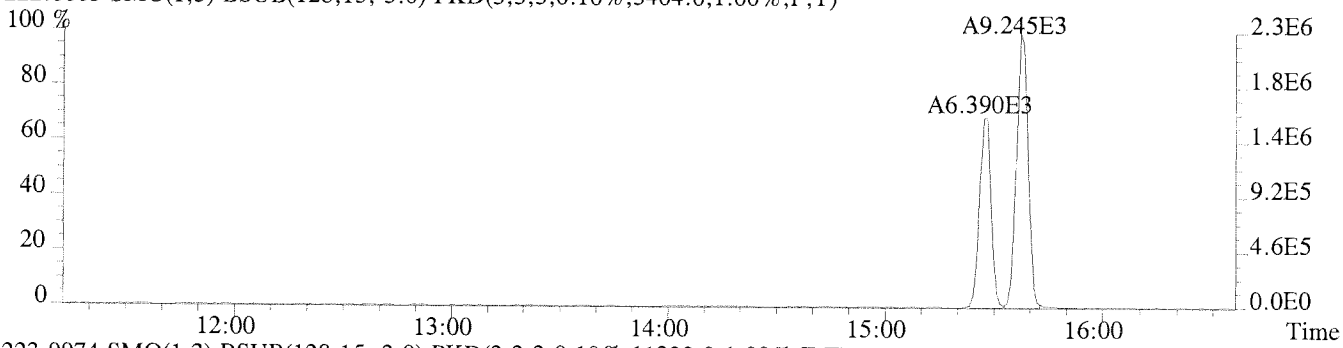


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

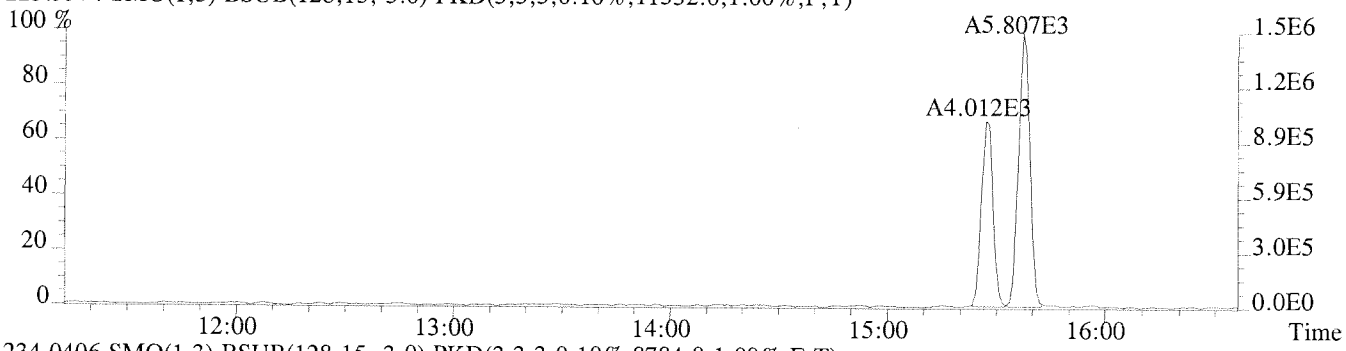


File:U139139 #1-347 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

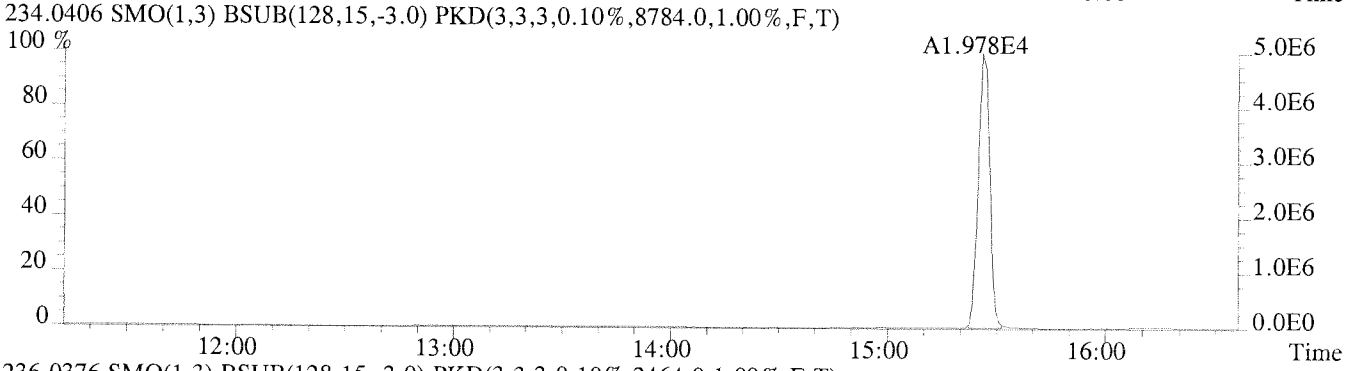
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3404.0,1.00%,F,T)



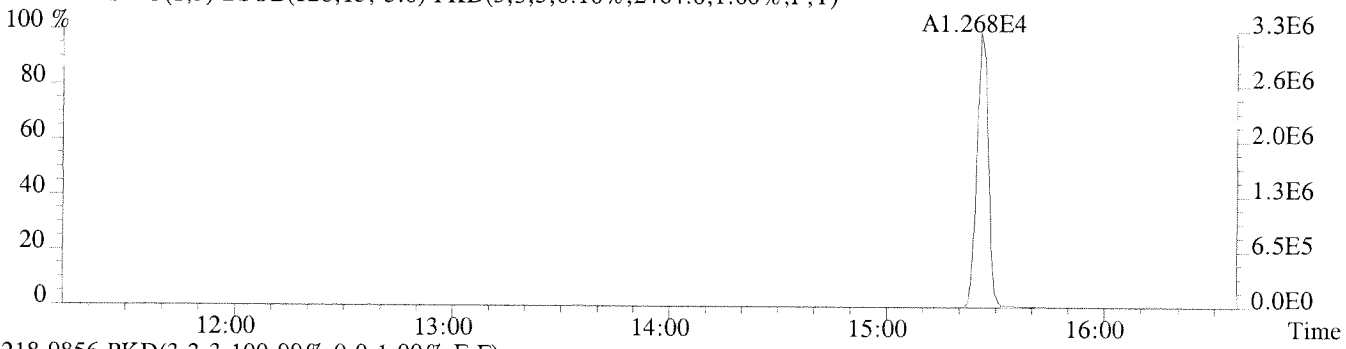
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11332.0,1.00%,F,T)



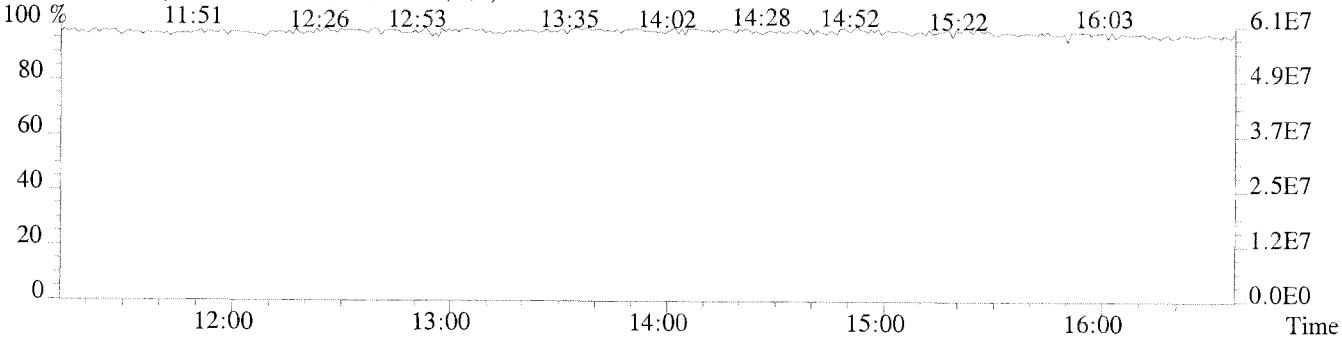
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8784.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2464.0,1.00%,F,T)

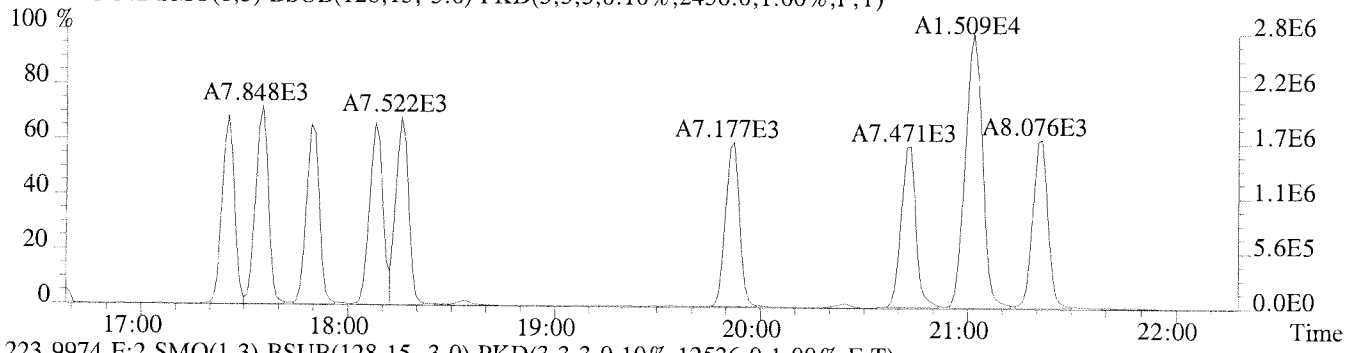


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

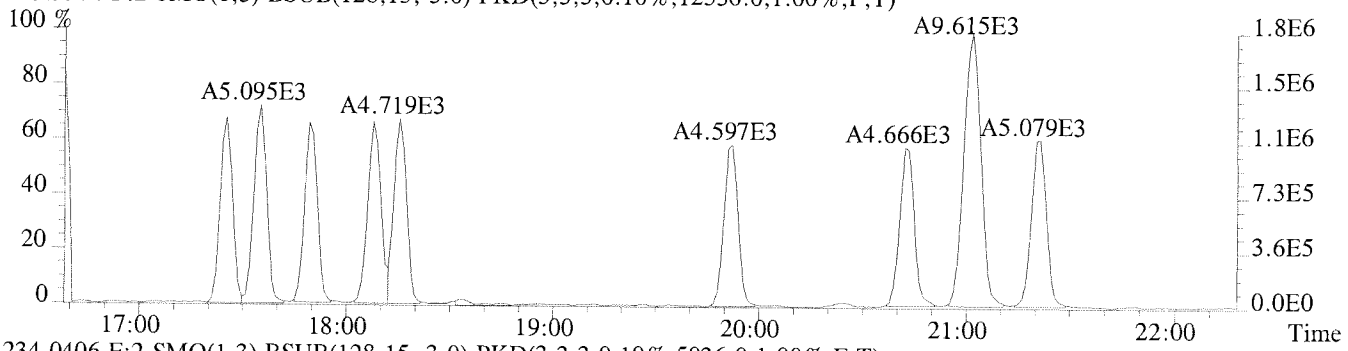


File:U139139 #1-313 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

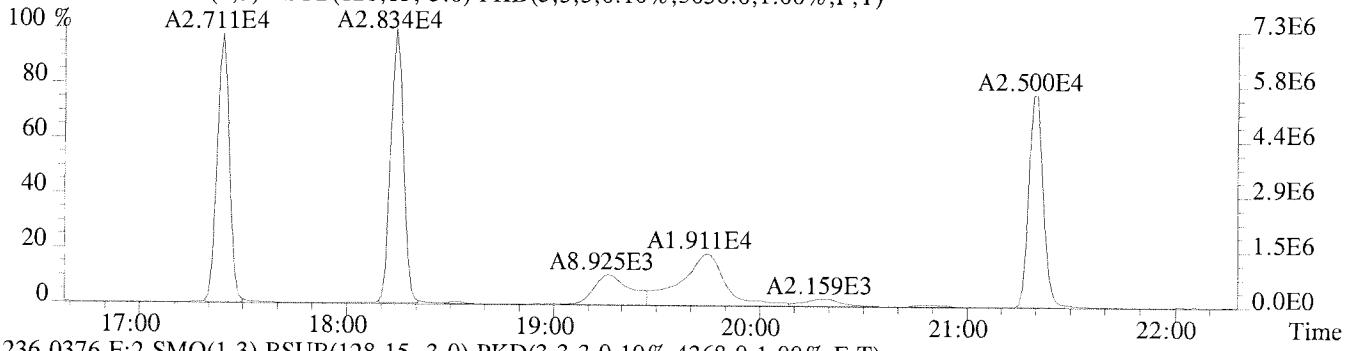
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2456.0,1.00%,F,T)



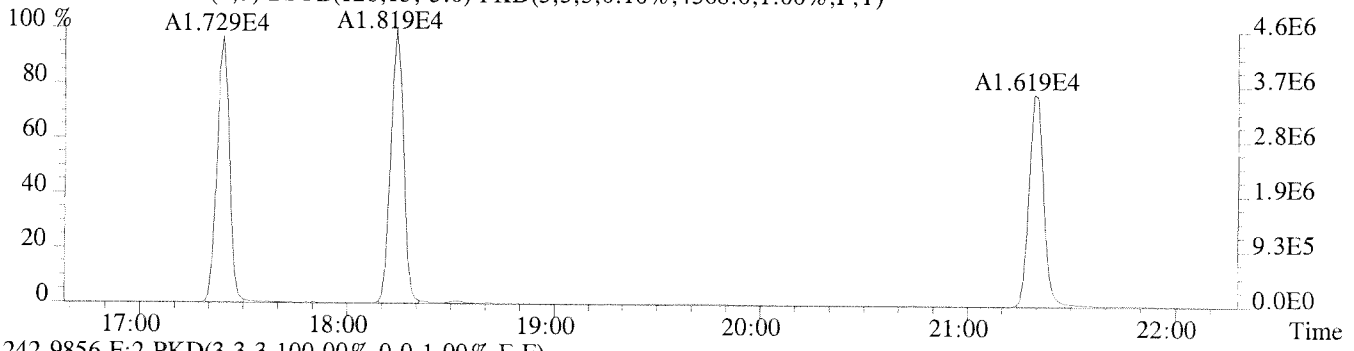
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12536.0,1.00%,F,T)



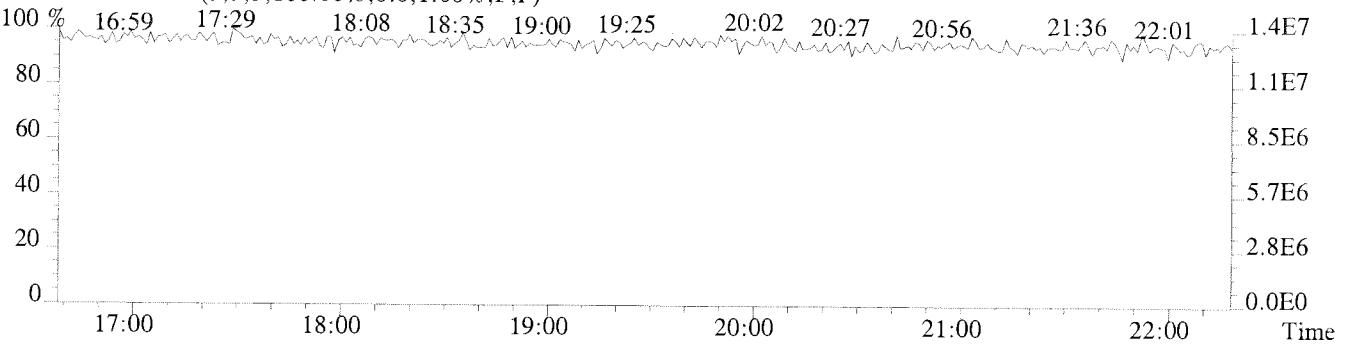
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5036.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4368.0,1.00%,F,T)

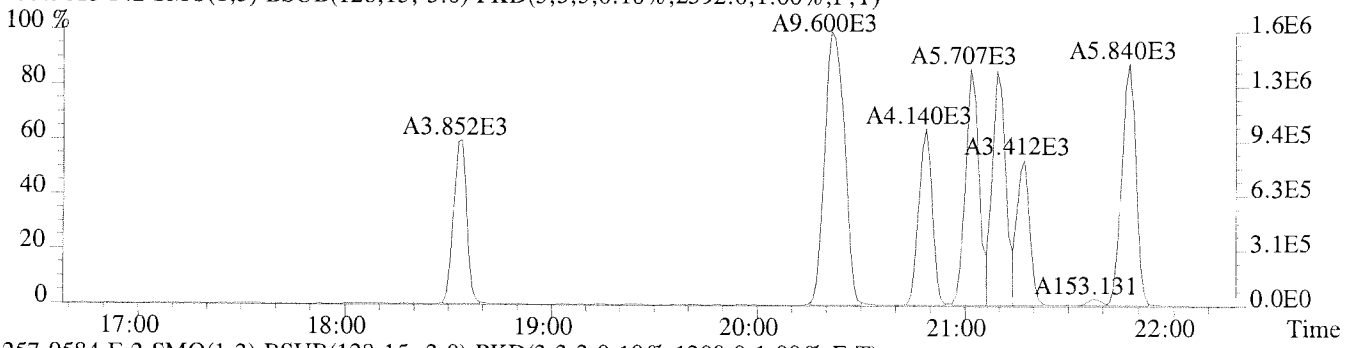


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

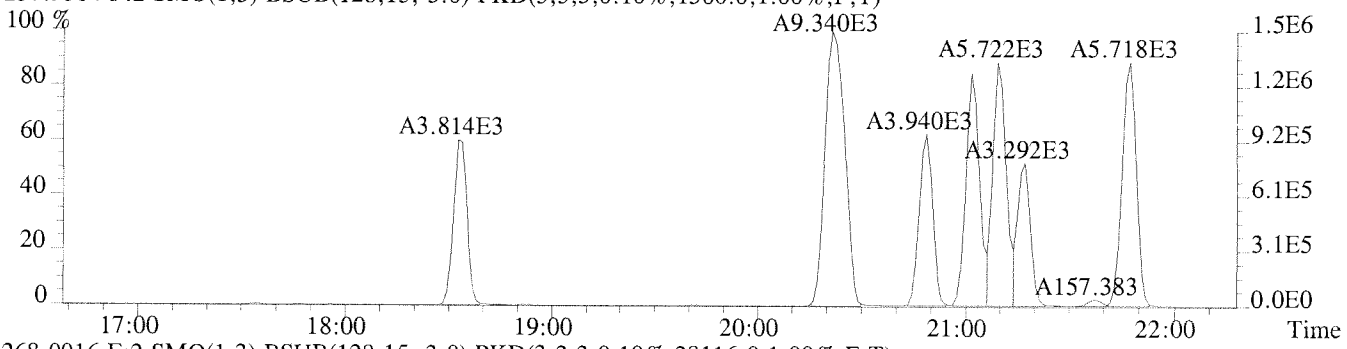


File:U139139 #1-313 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

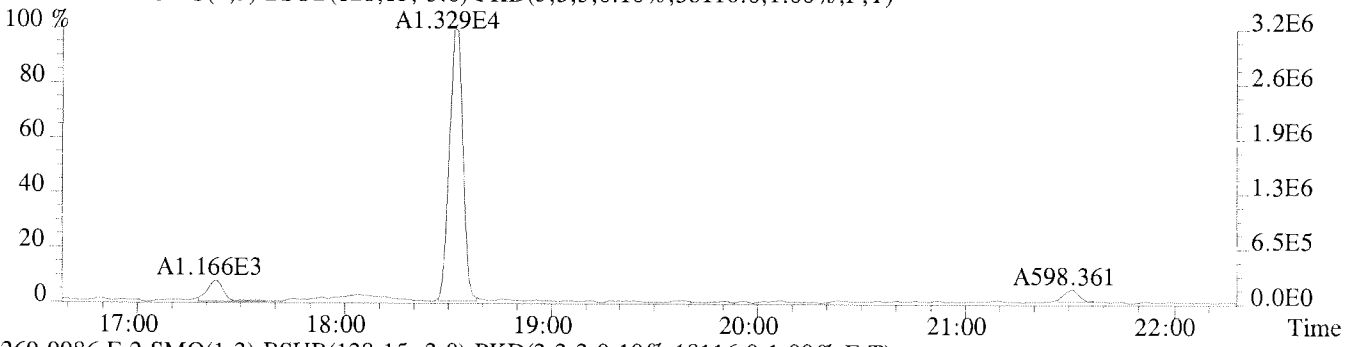
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2392.0,1.00%,F,T)



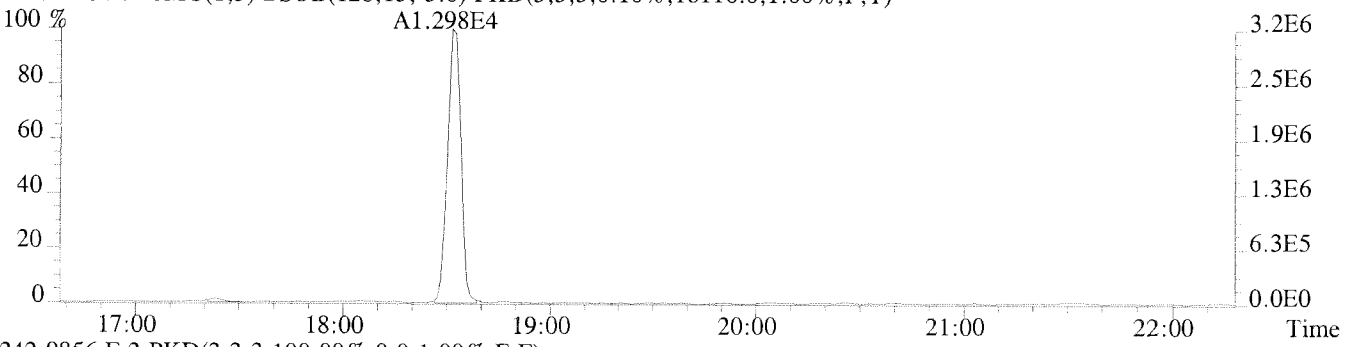
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1300.0,1.00%,F,T)



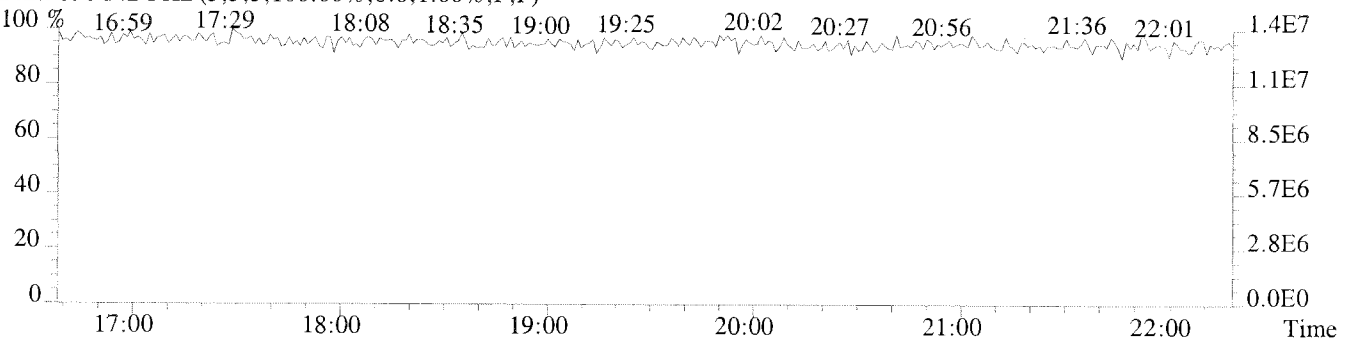
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,38116.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18116.0,1.00%,F,T)

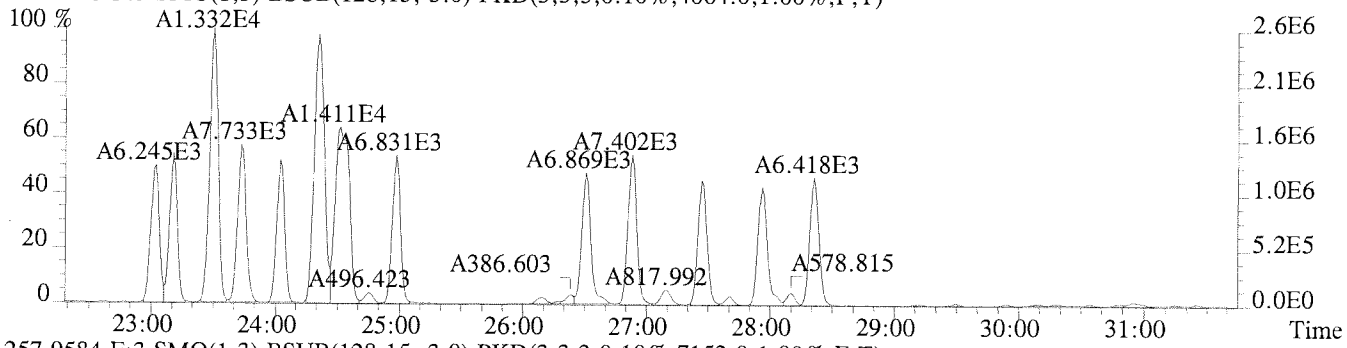


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

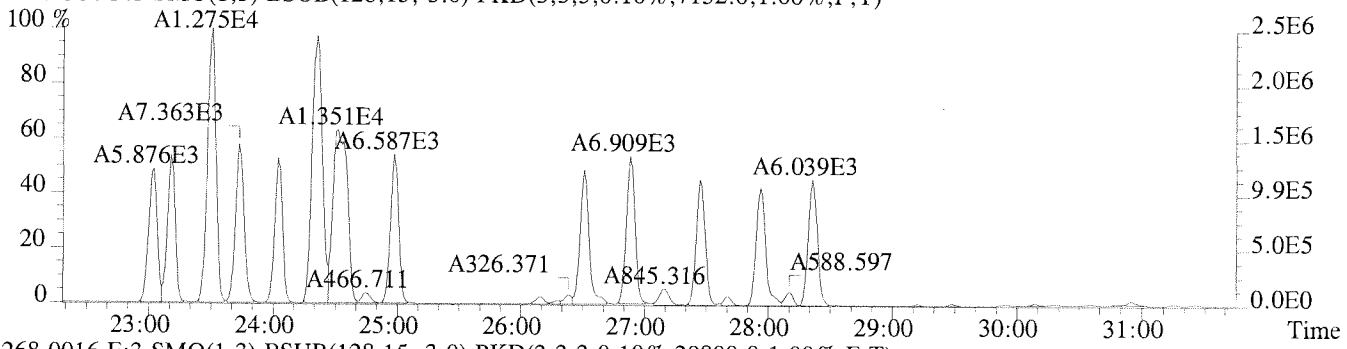


File:U139139 #1-604 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

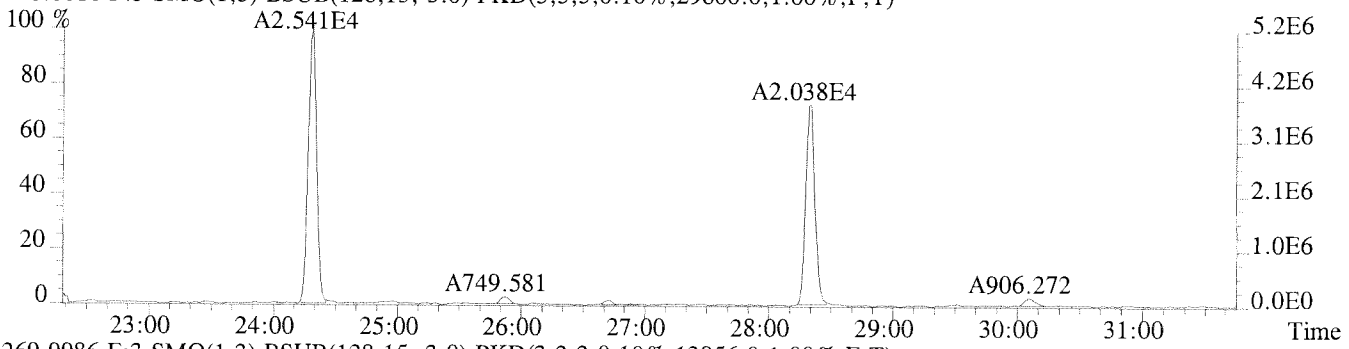
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4064.0,1.00%,F,T)



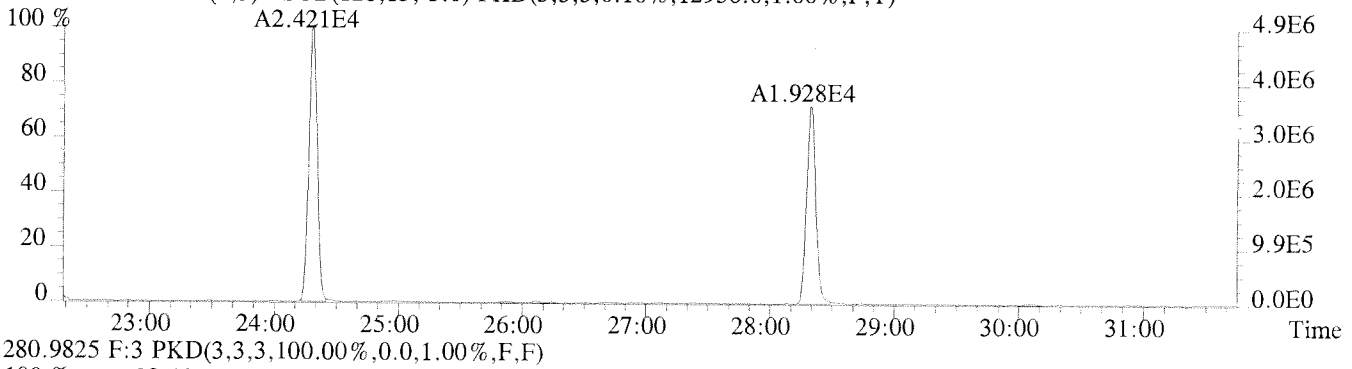
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7152.0,1.00%,F,T)



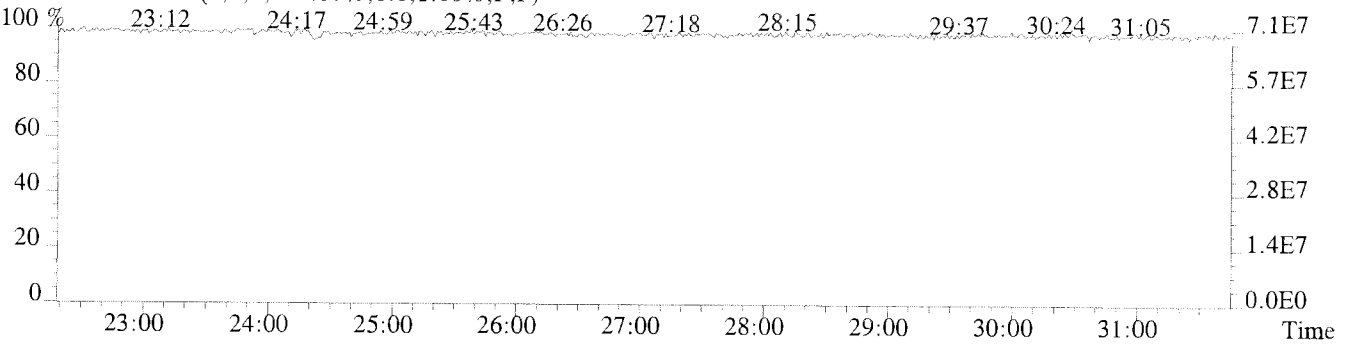
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,29800.0,1.00%,F,T)



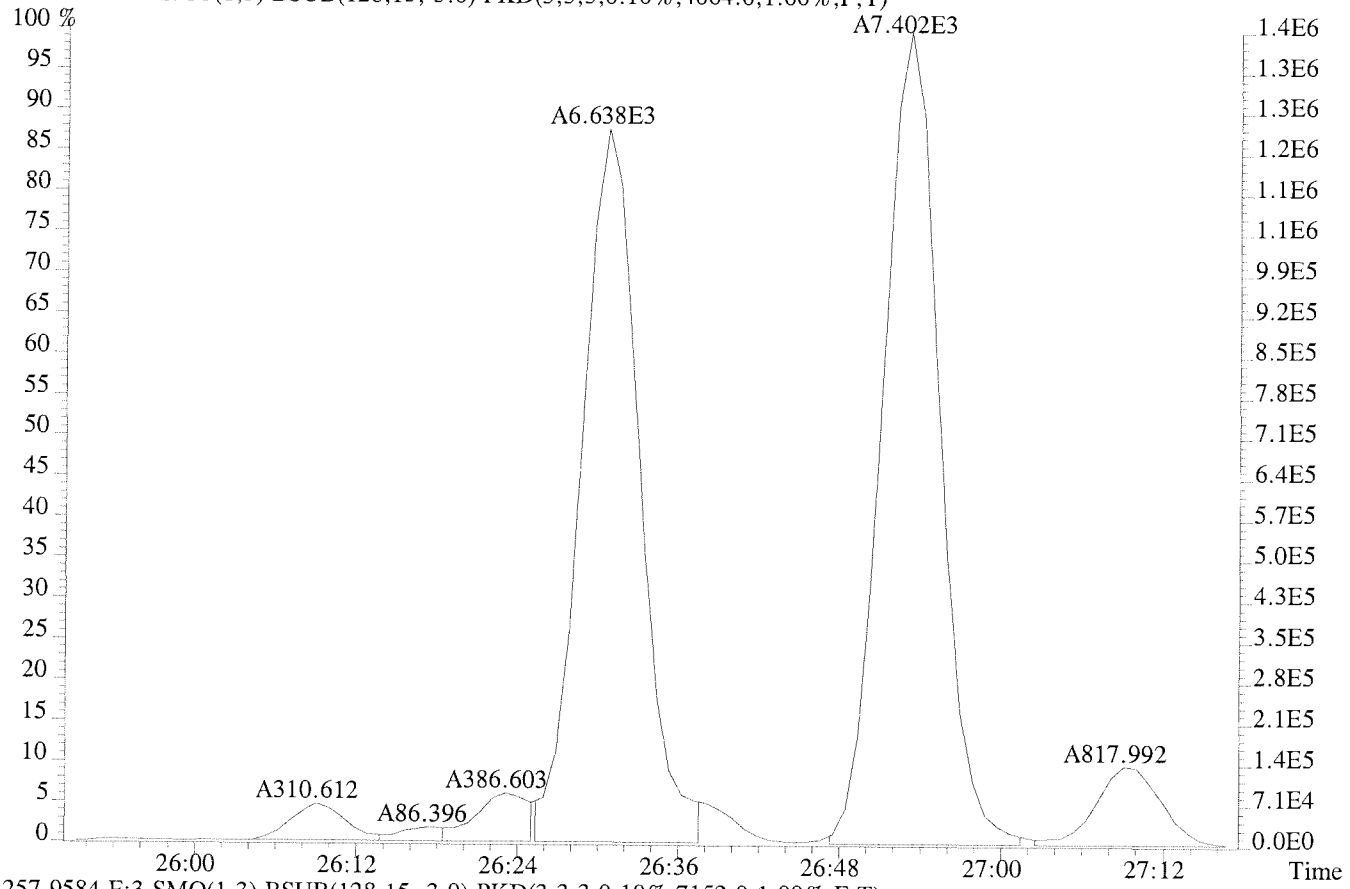
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,12956.0,1.00%,F,T)



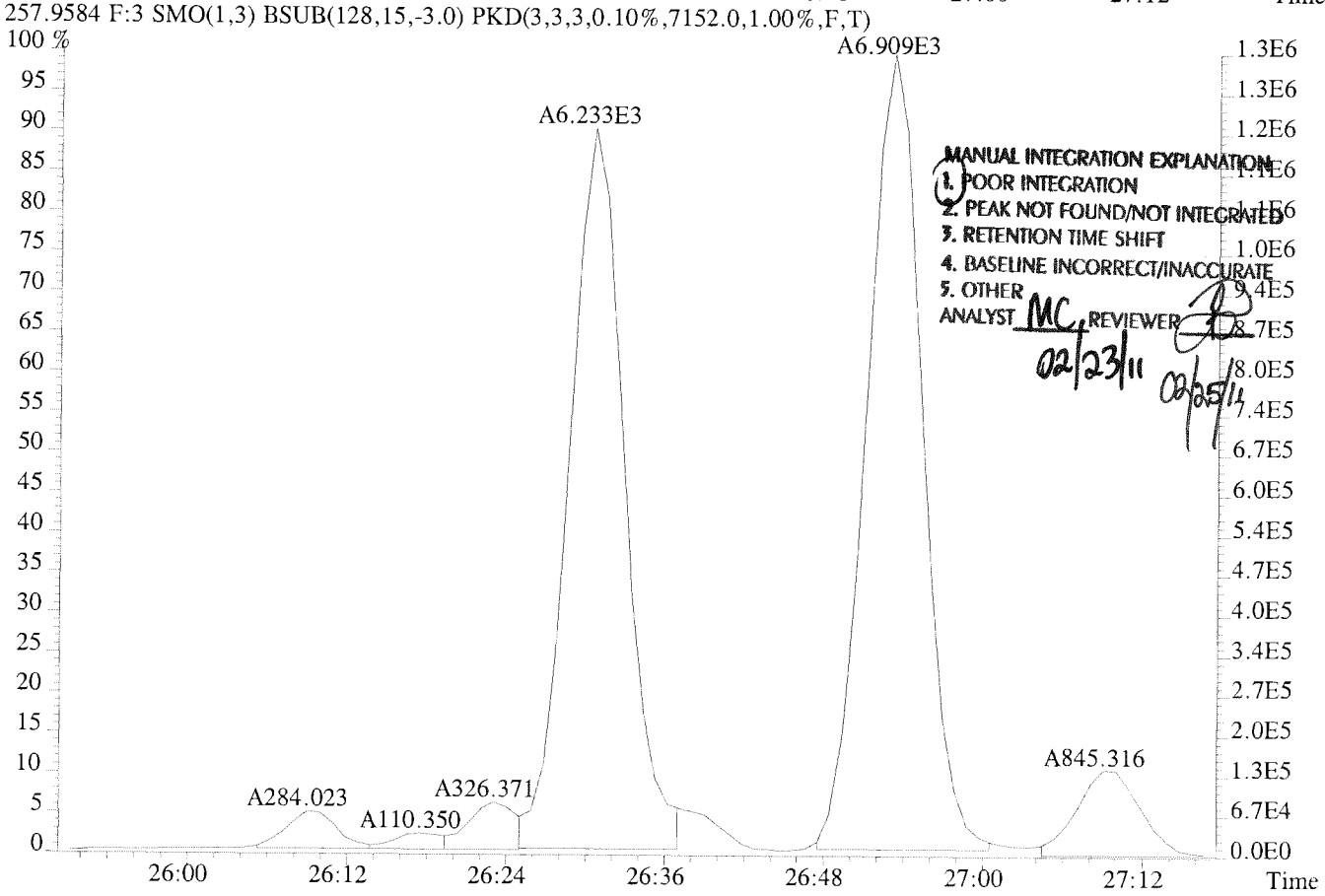
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139139 #1-604 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4064.0,1.00%,F,T)



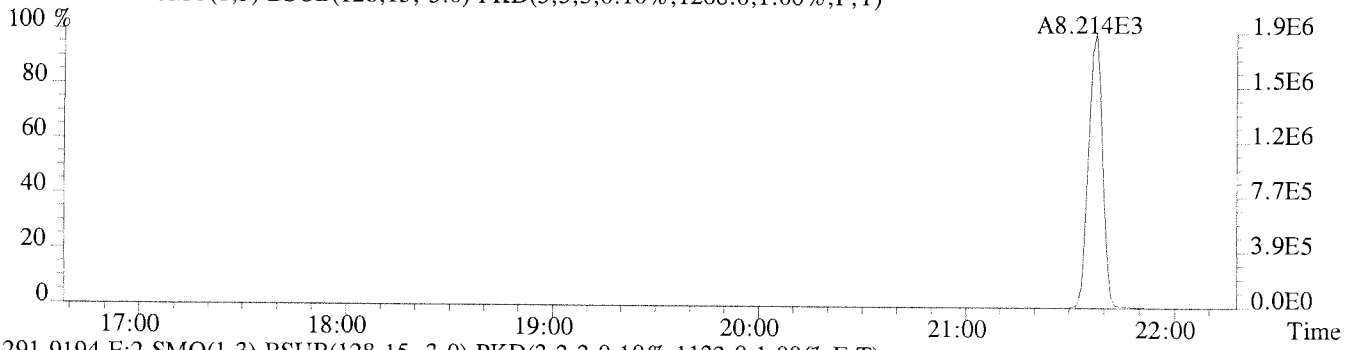
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7152.0,1.00%,F,T)



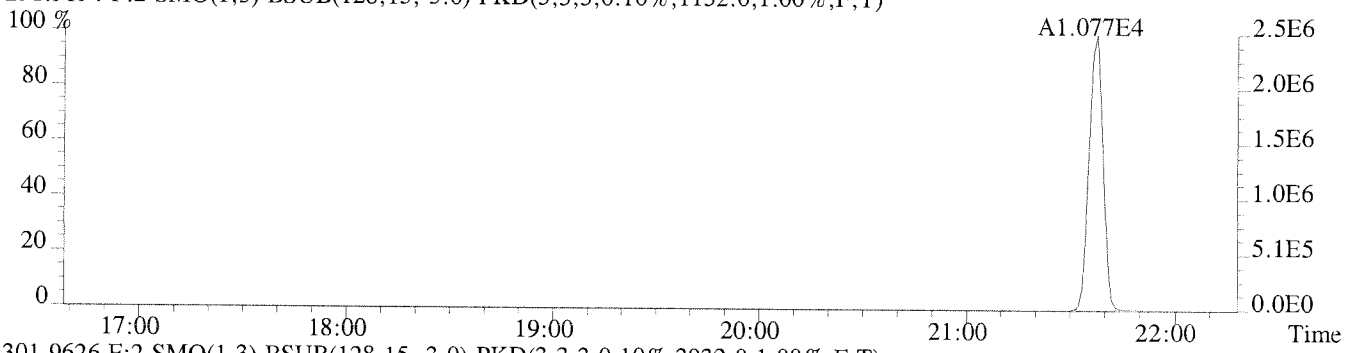
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/23/11 02/25/11

File:U139139 #1-313 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

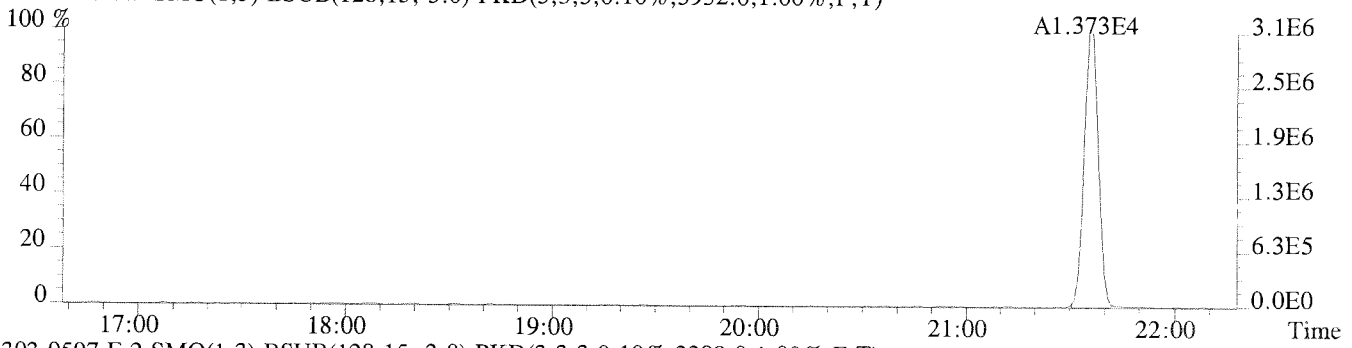
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1268.0,1.00%,F,T)



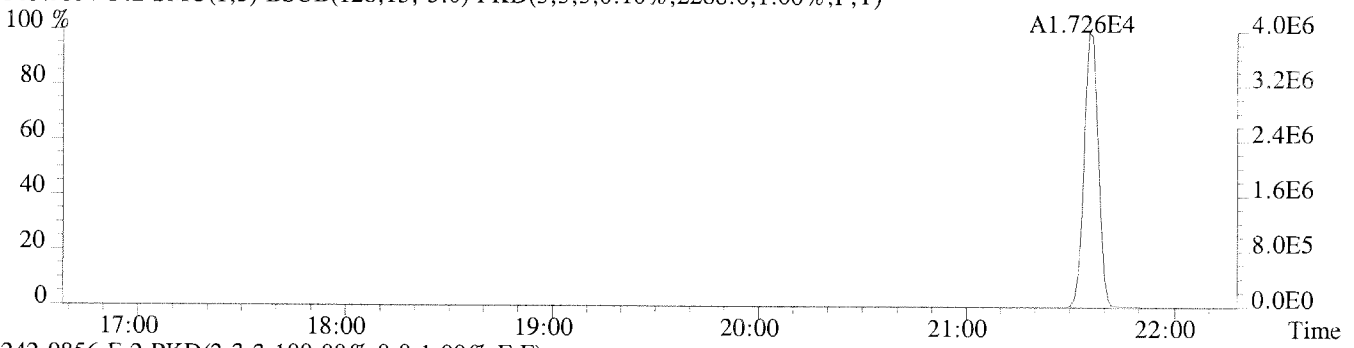
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1132.0,1.00%,F,T)



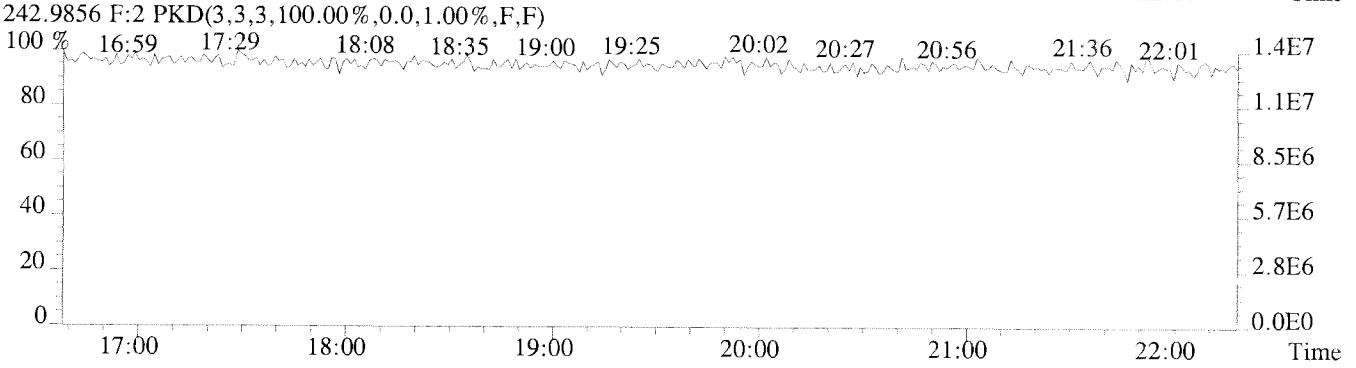
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3932.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2288.0,1.00%,F,T)

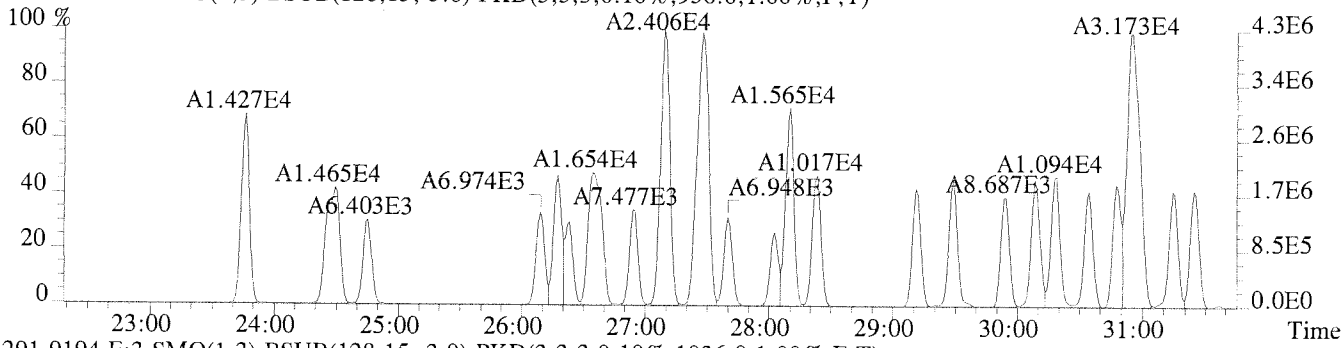


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

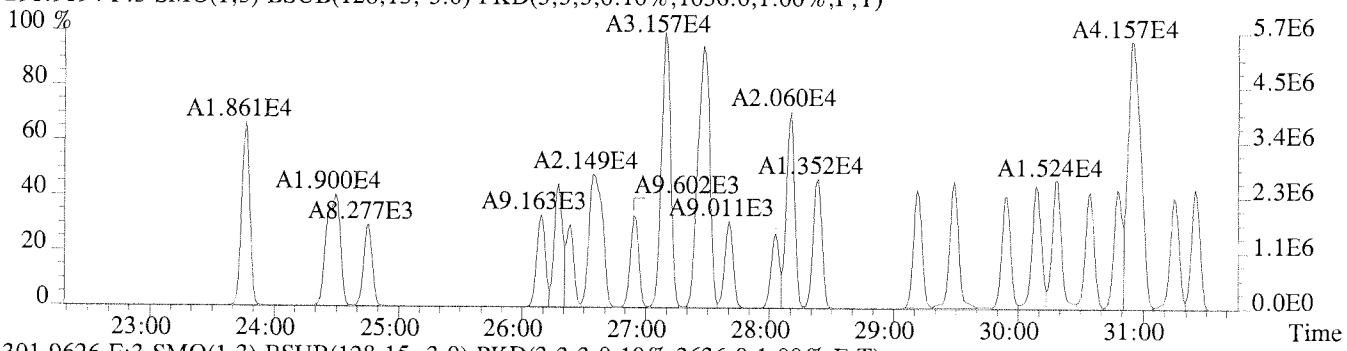


File:U139139 #1-604 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

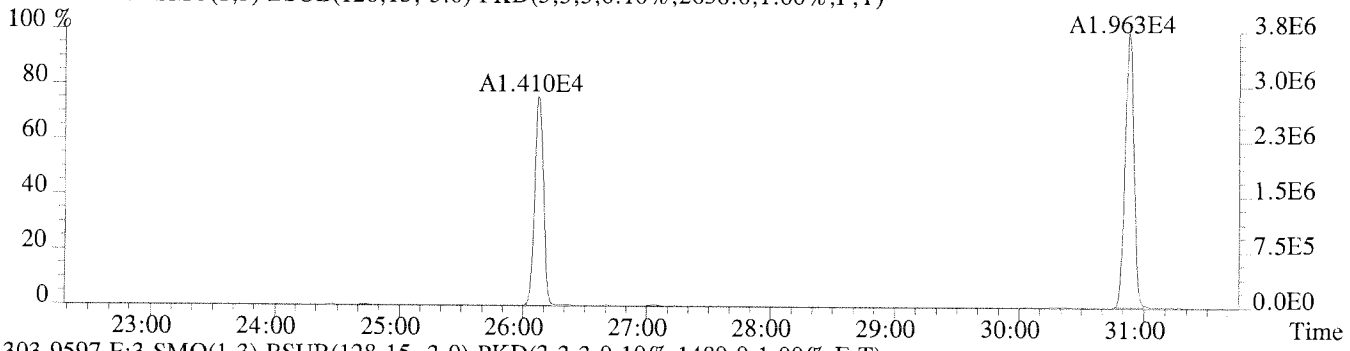
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,936.0,1.00%,F,T)



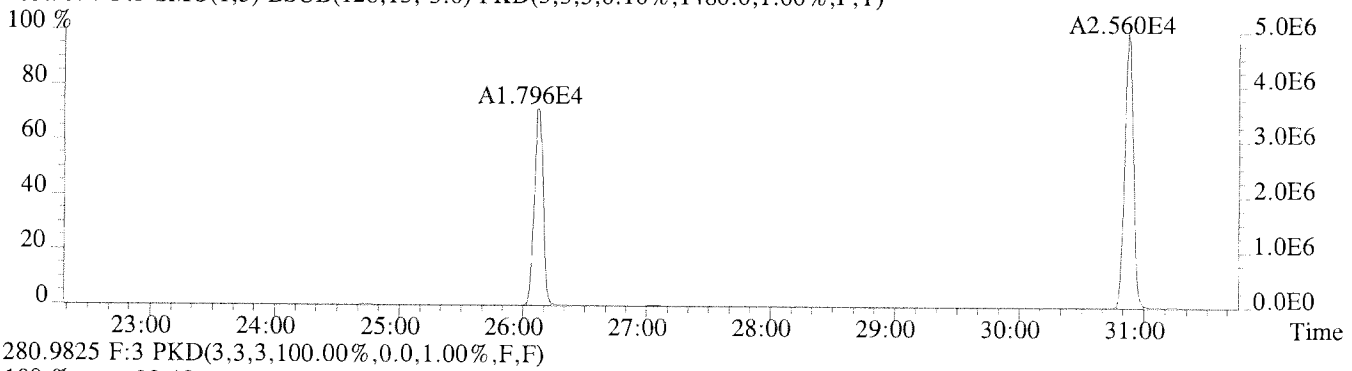
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



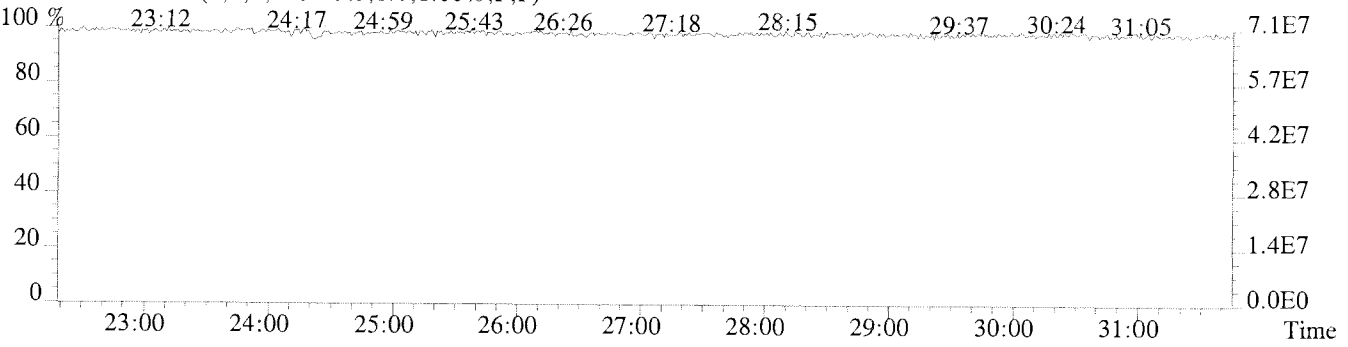
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2636.0,1.00%,F,T)



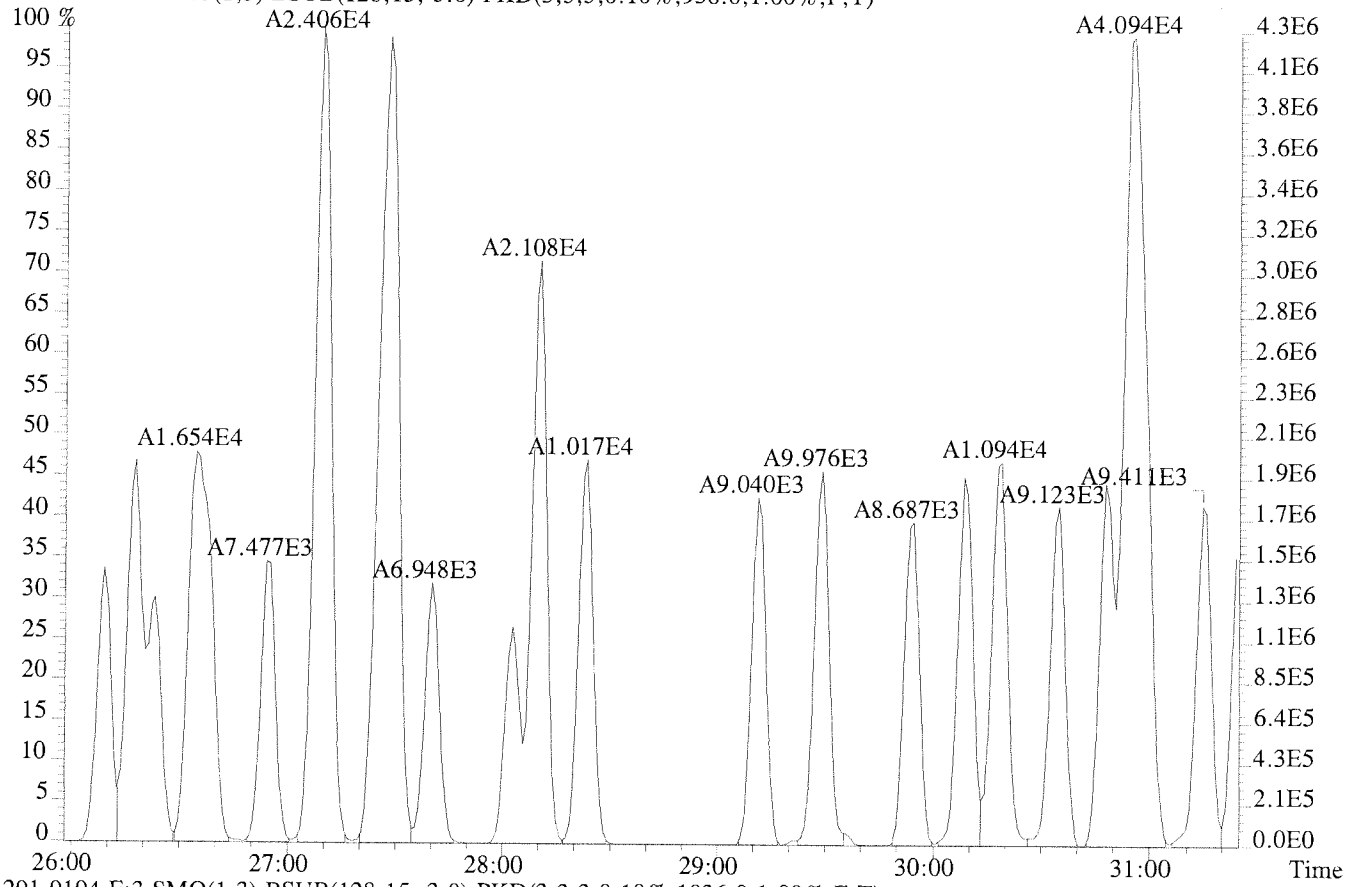
303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1480.0,1.00%,F,T)



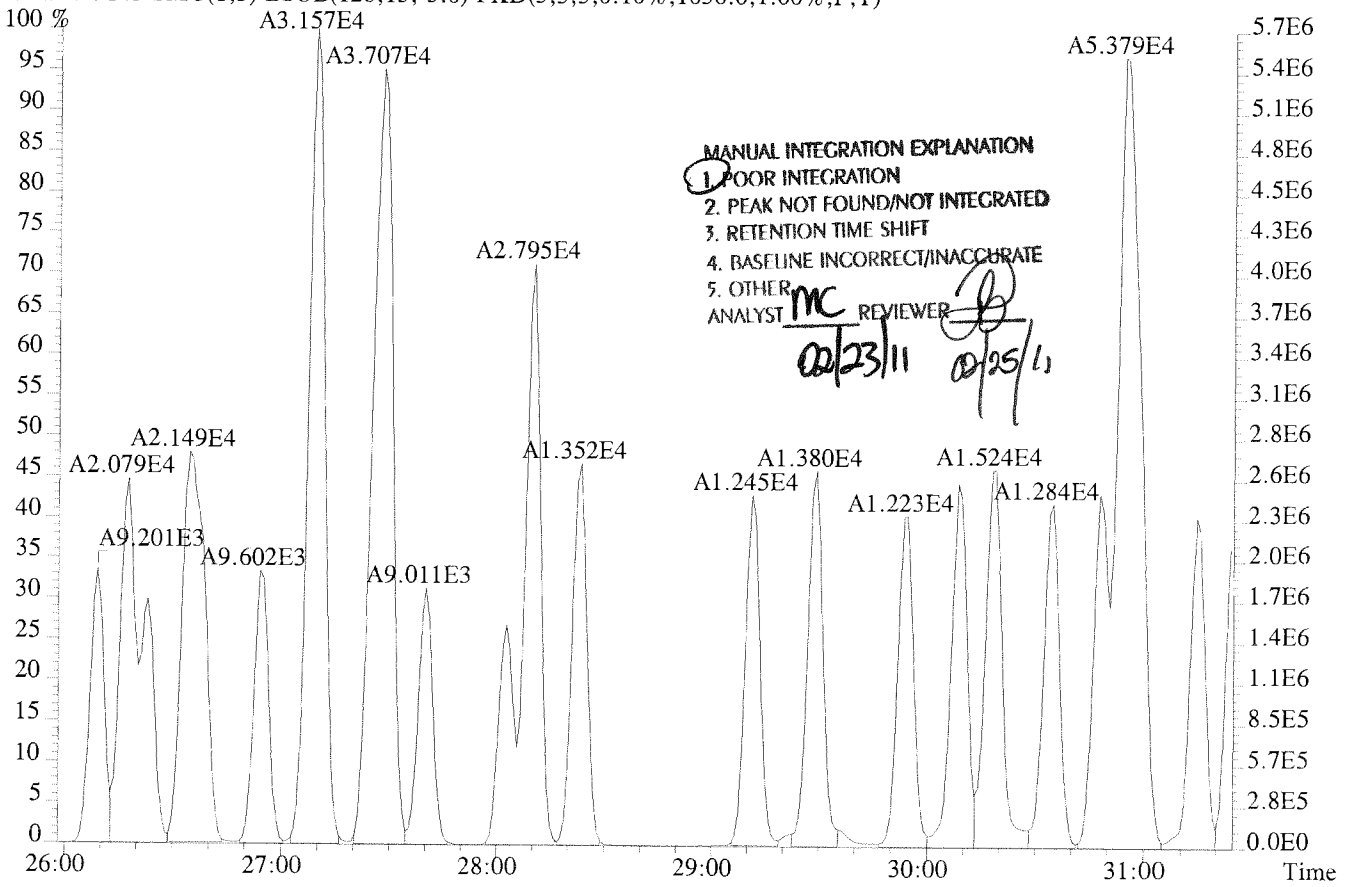
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139139 #1-604 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,936.0,1.00%,F,T)



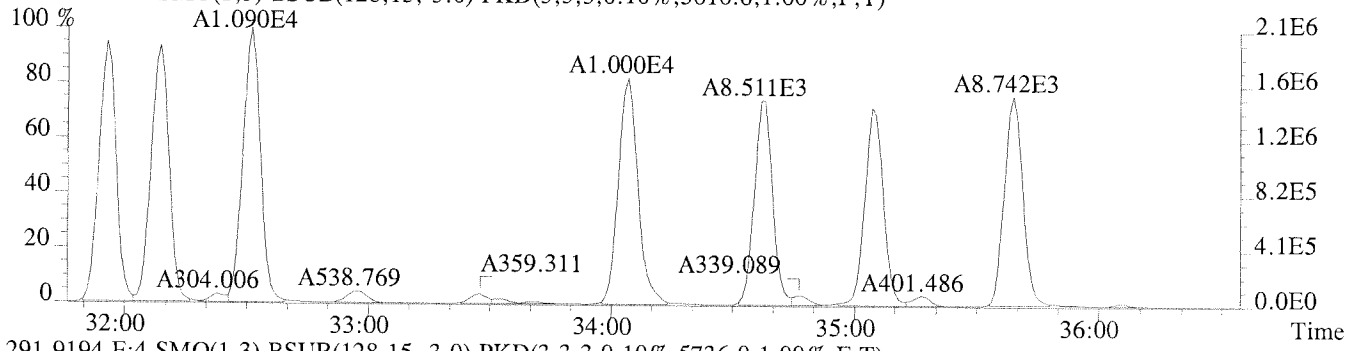
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)



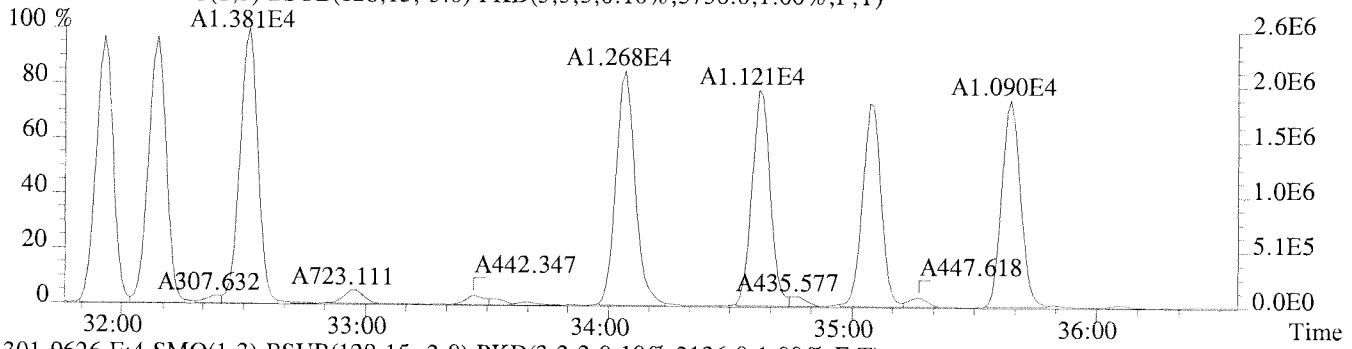
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/23/11 02/25/11

File:U139139 #1-308 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

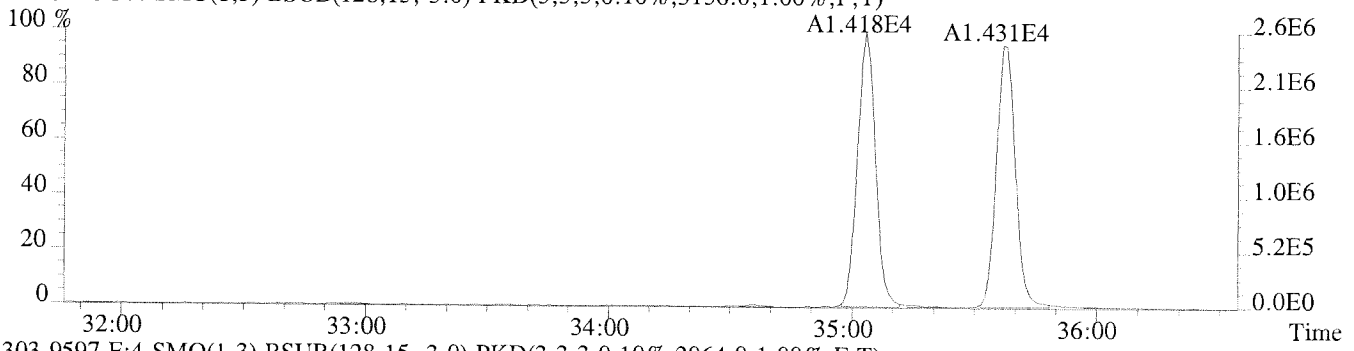
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5616.0,1.00%,F,T)



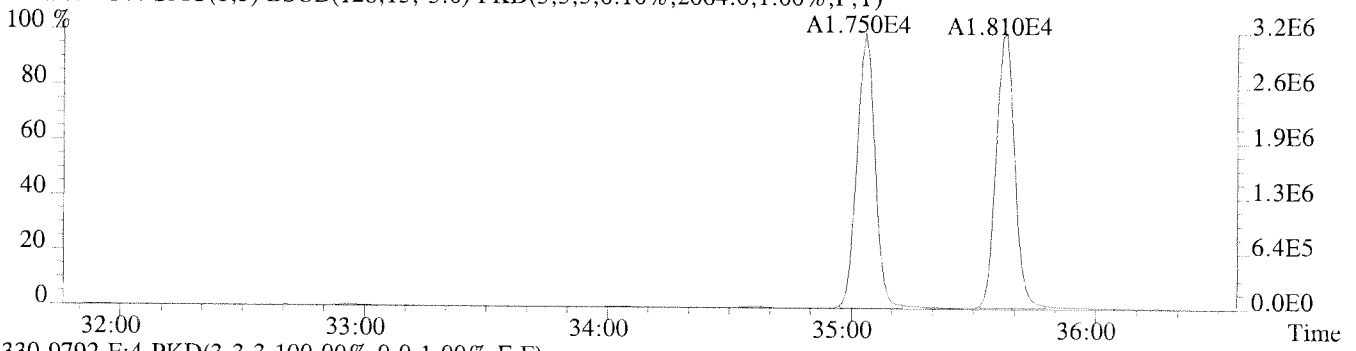
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5736.0,1.00%,F,T)



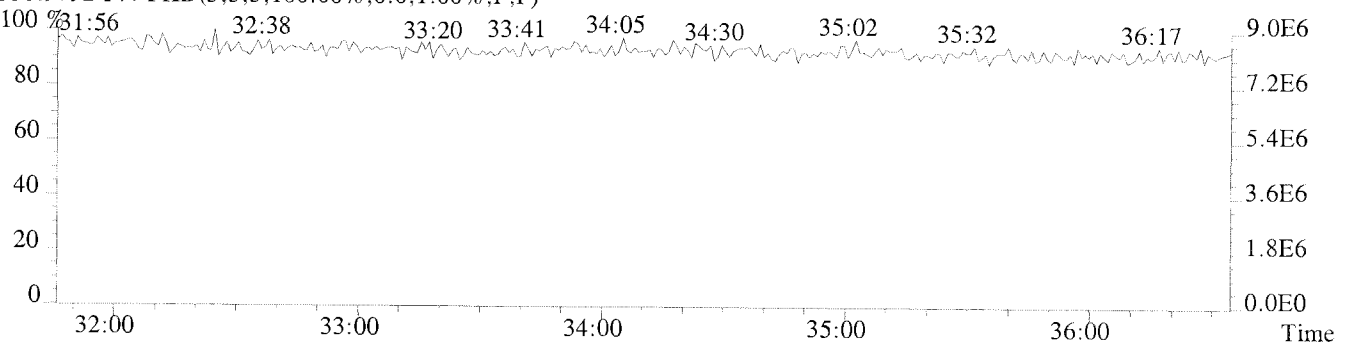
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3136.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2064.0,1.00%,F,T)

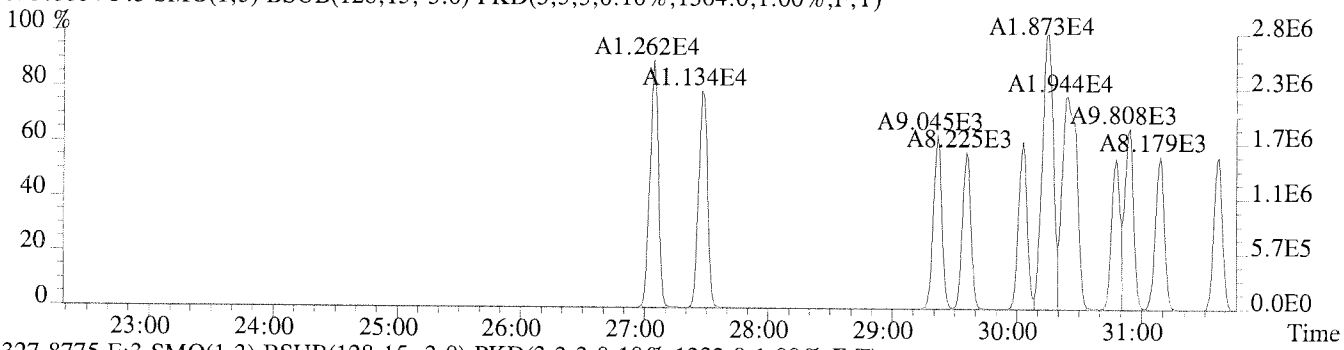


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

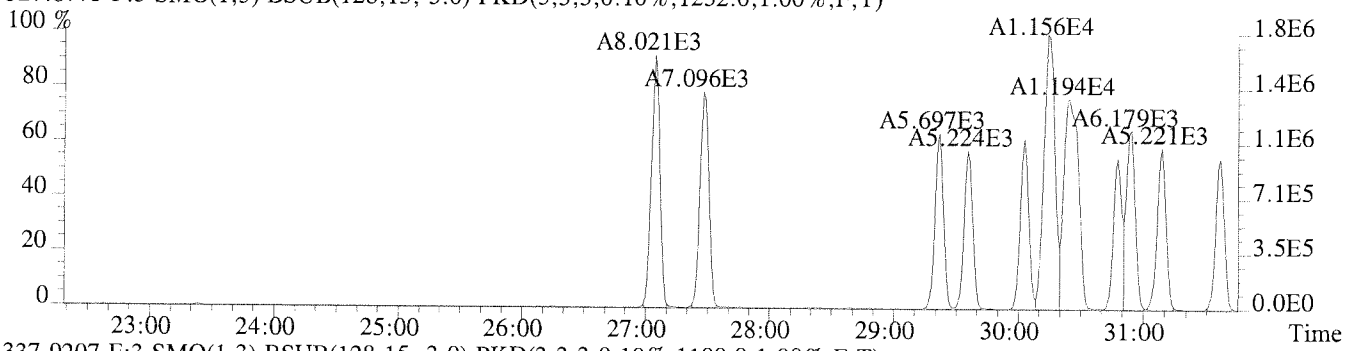


File:U139139 #1-604 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

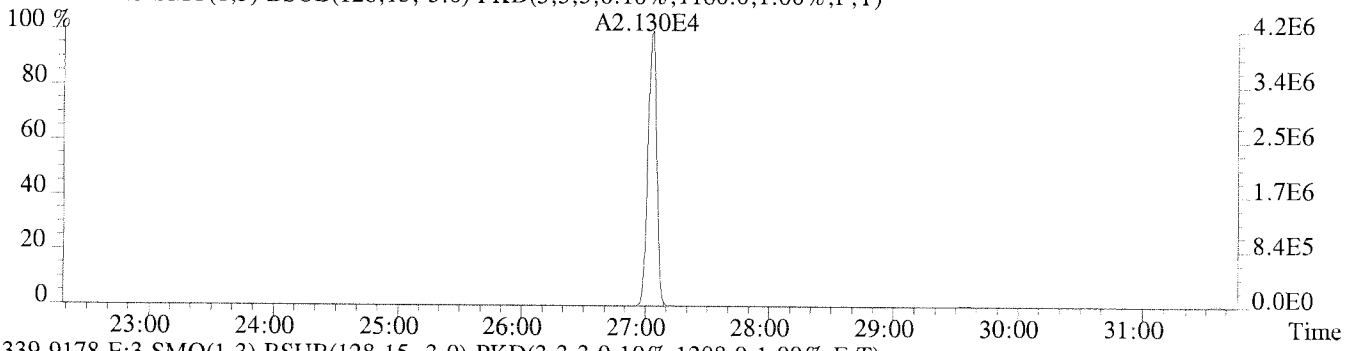
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1364.0,1.00%,F,T)



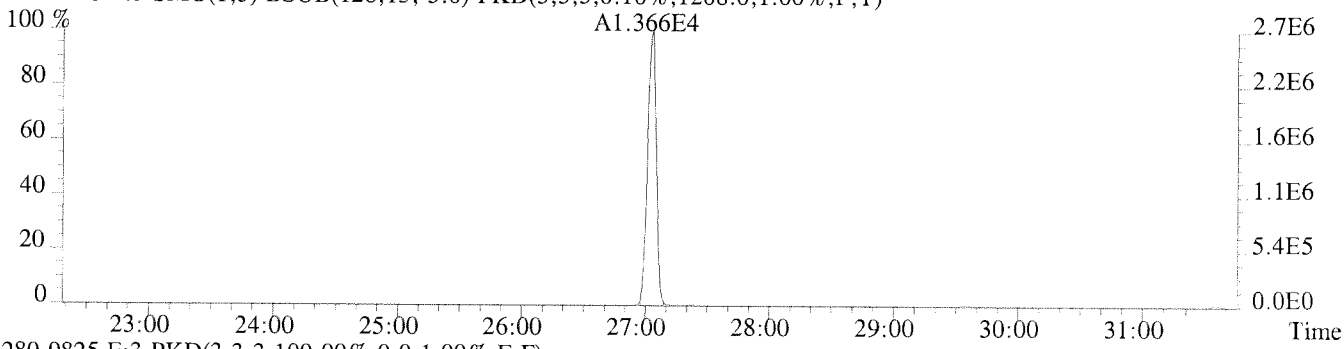
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1232.0,1.00%,F,T)



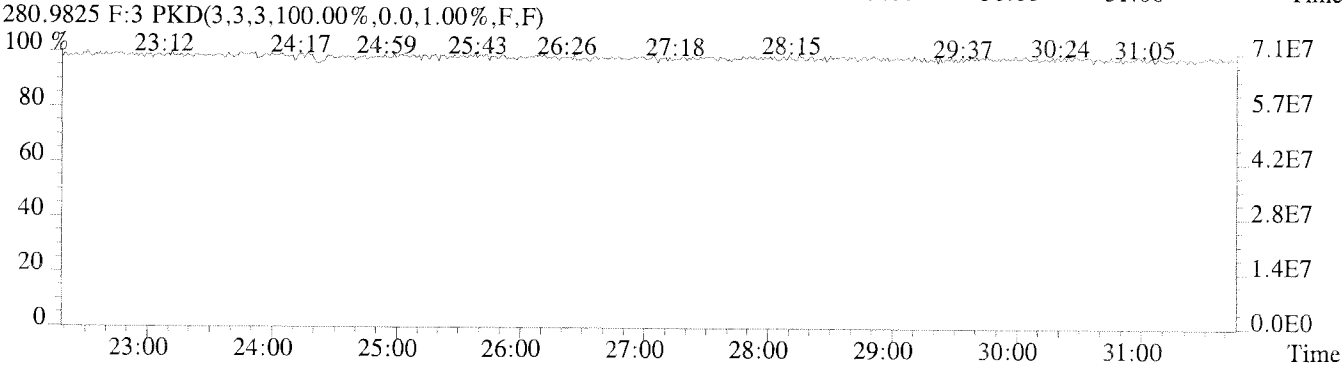
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1180.0,1.00%,F,T)



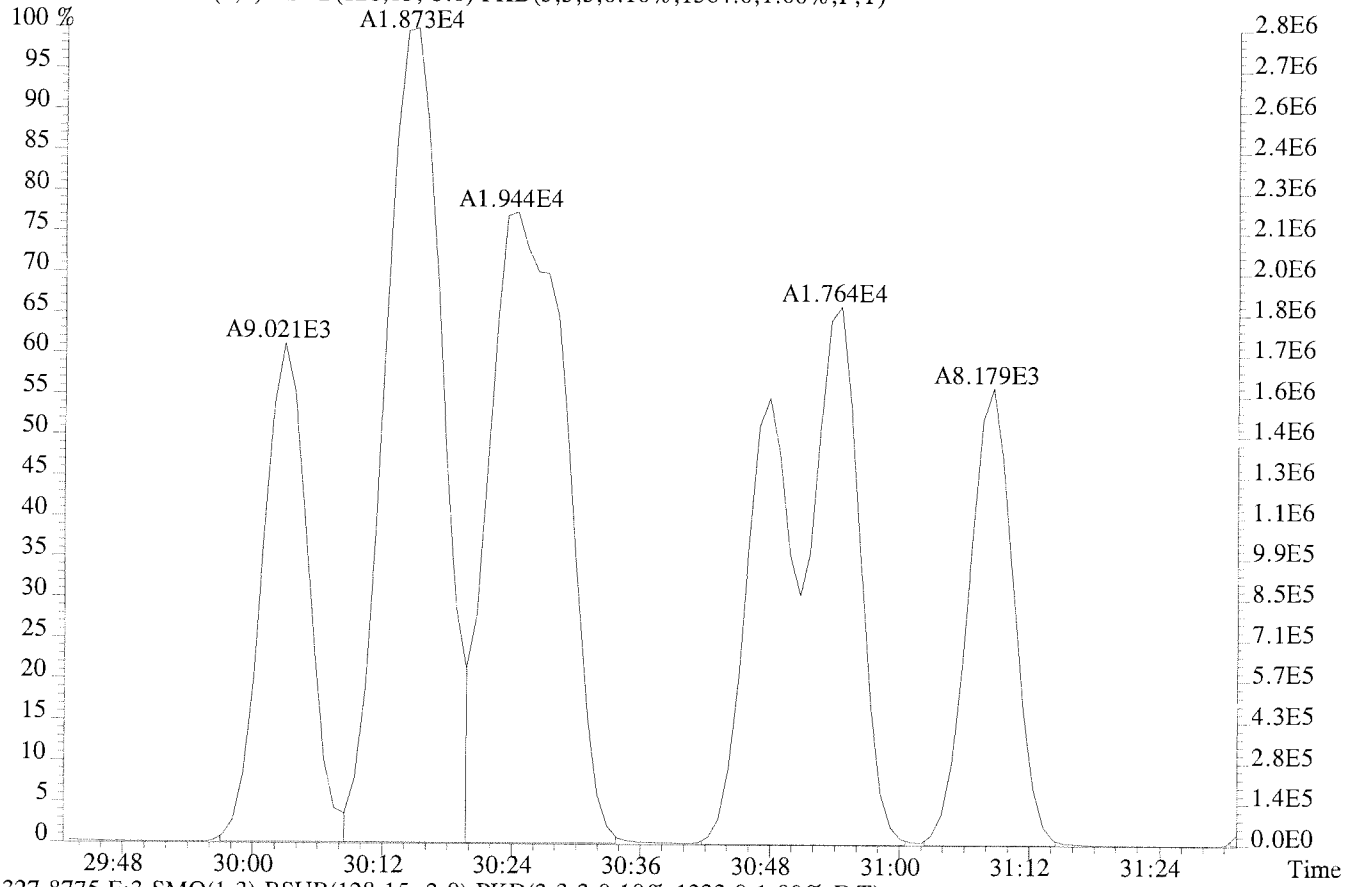
339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1208.0,1.00%,F,T)



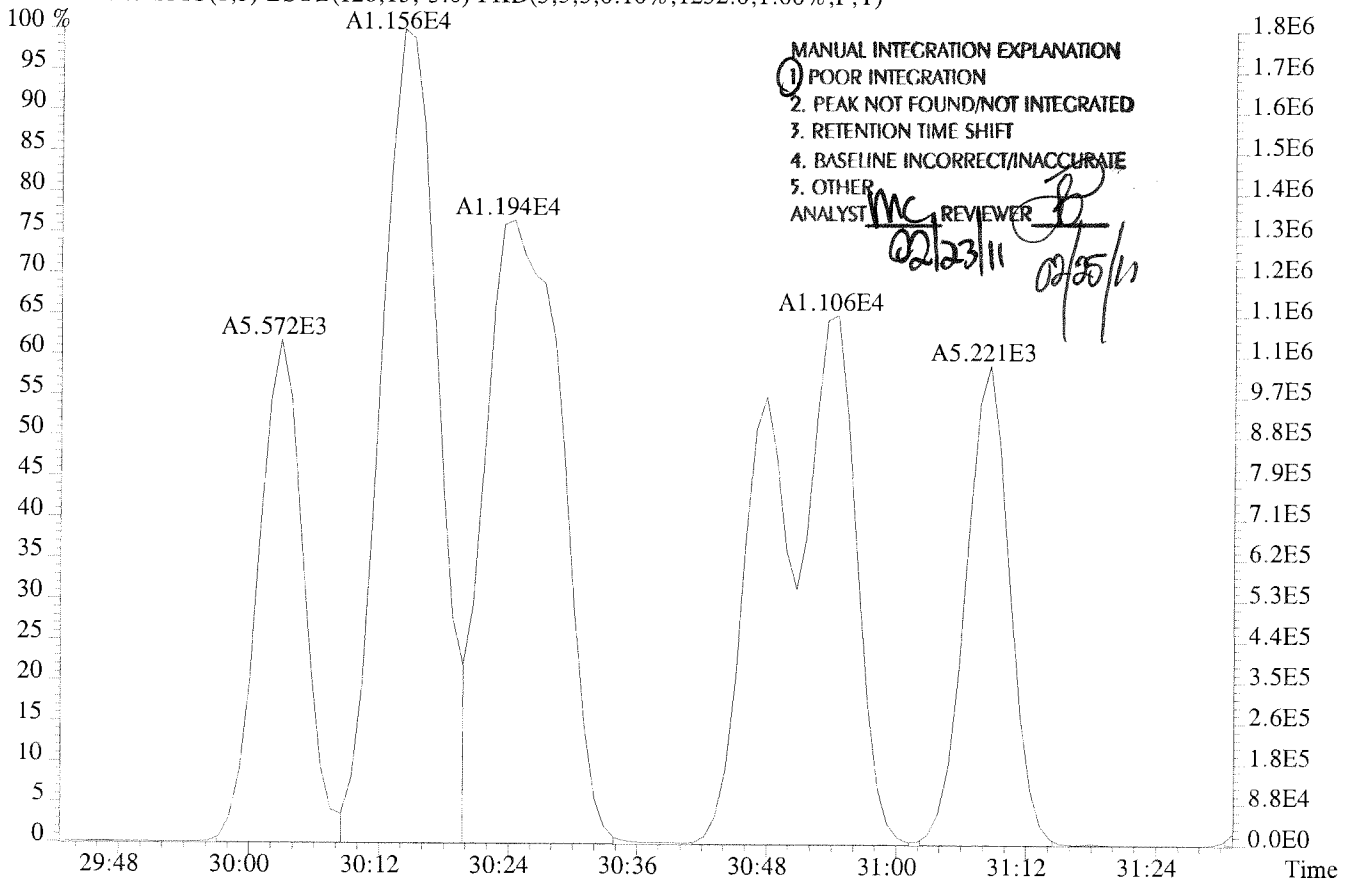
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139139 #1-604 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1364.0,1.00%,F,T)



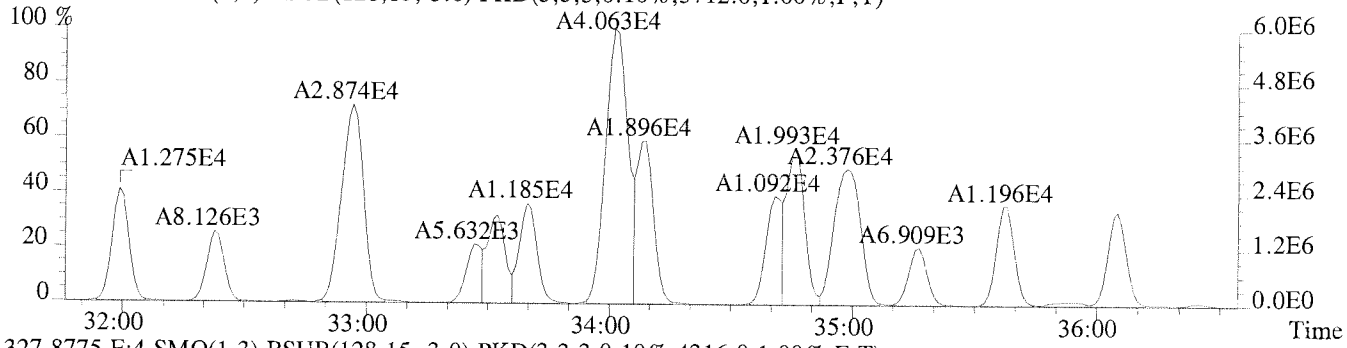
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1232.0,1.00%,F,T)



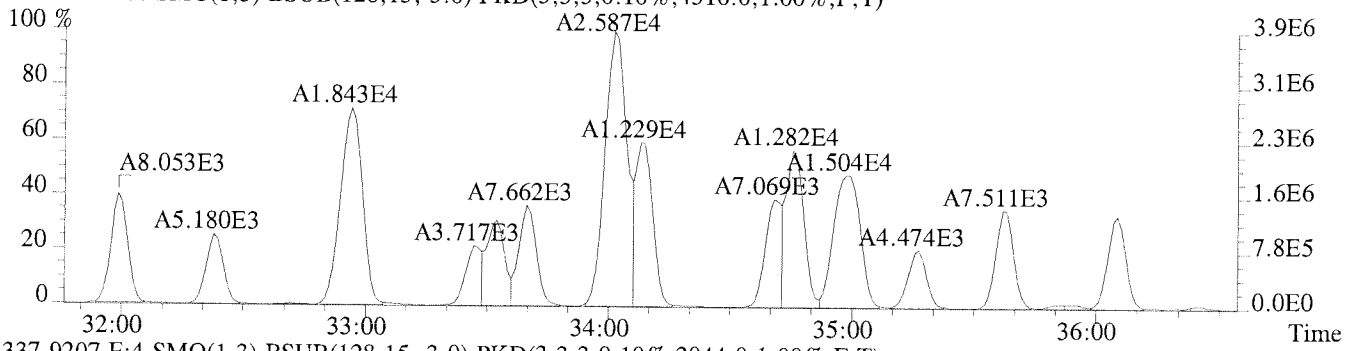
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC 02/23/11 REVIEWER 02/25/11

File:U139139 #1-308 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

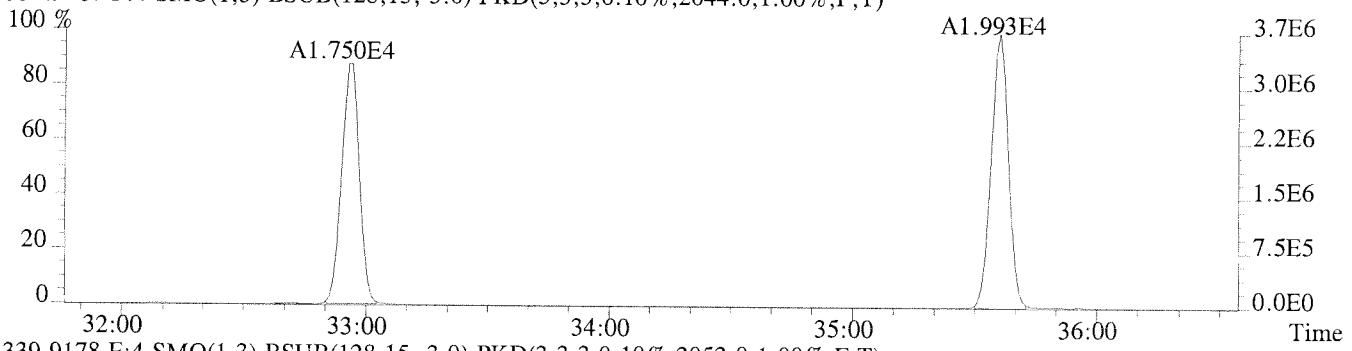
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5712.0,1.00%,F,T)



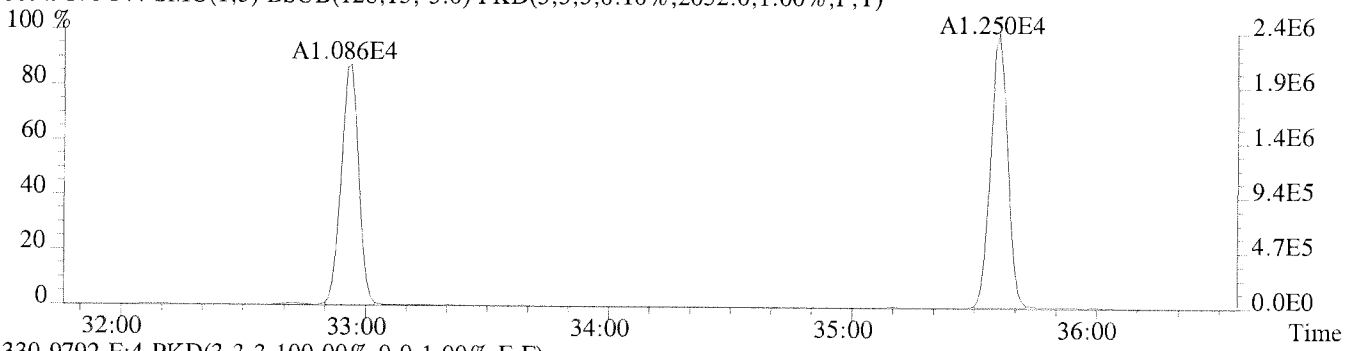
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4316.0,1.00%,F,T)



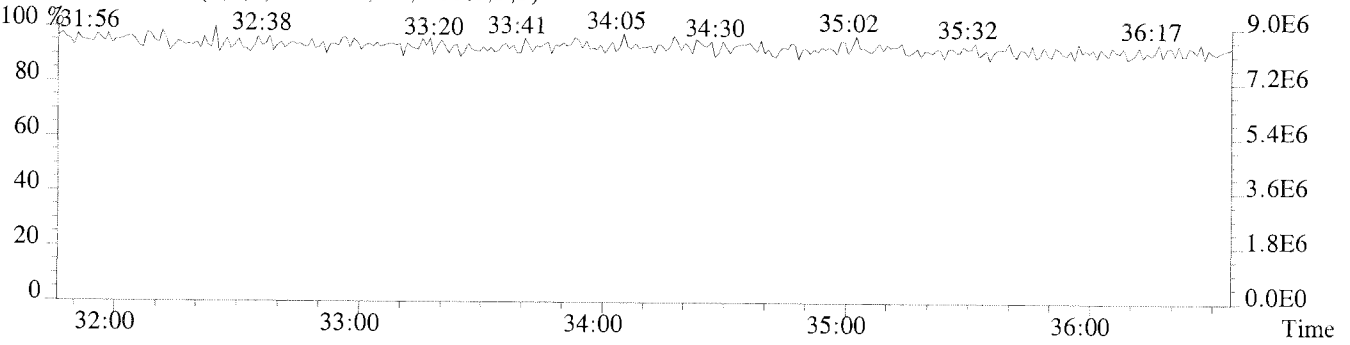
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2044.0,1.00%,F,T)



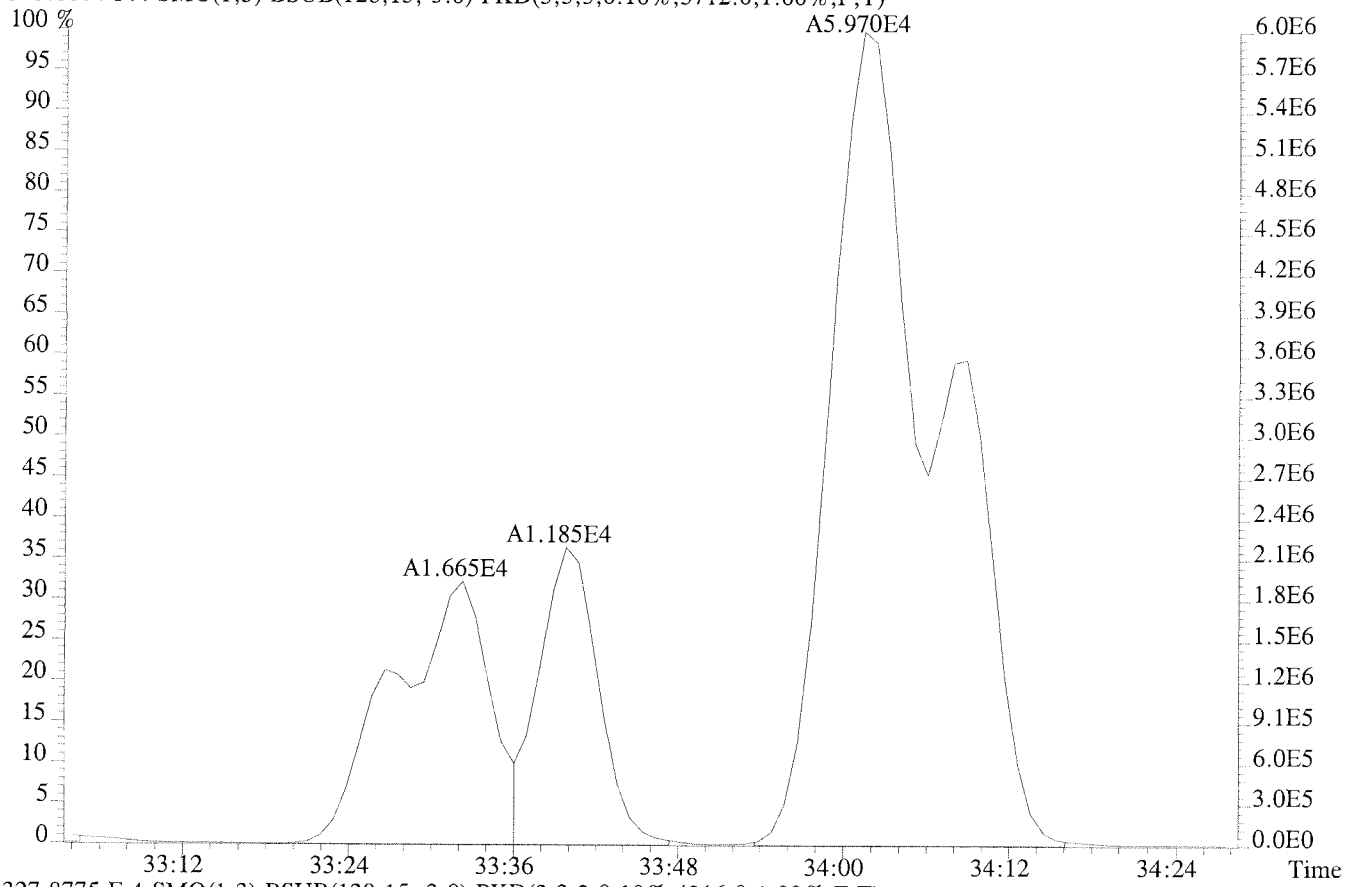
339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2052.0,1.00%,F,T)



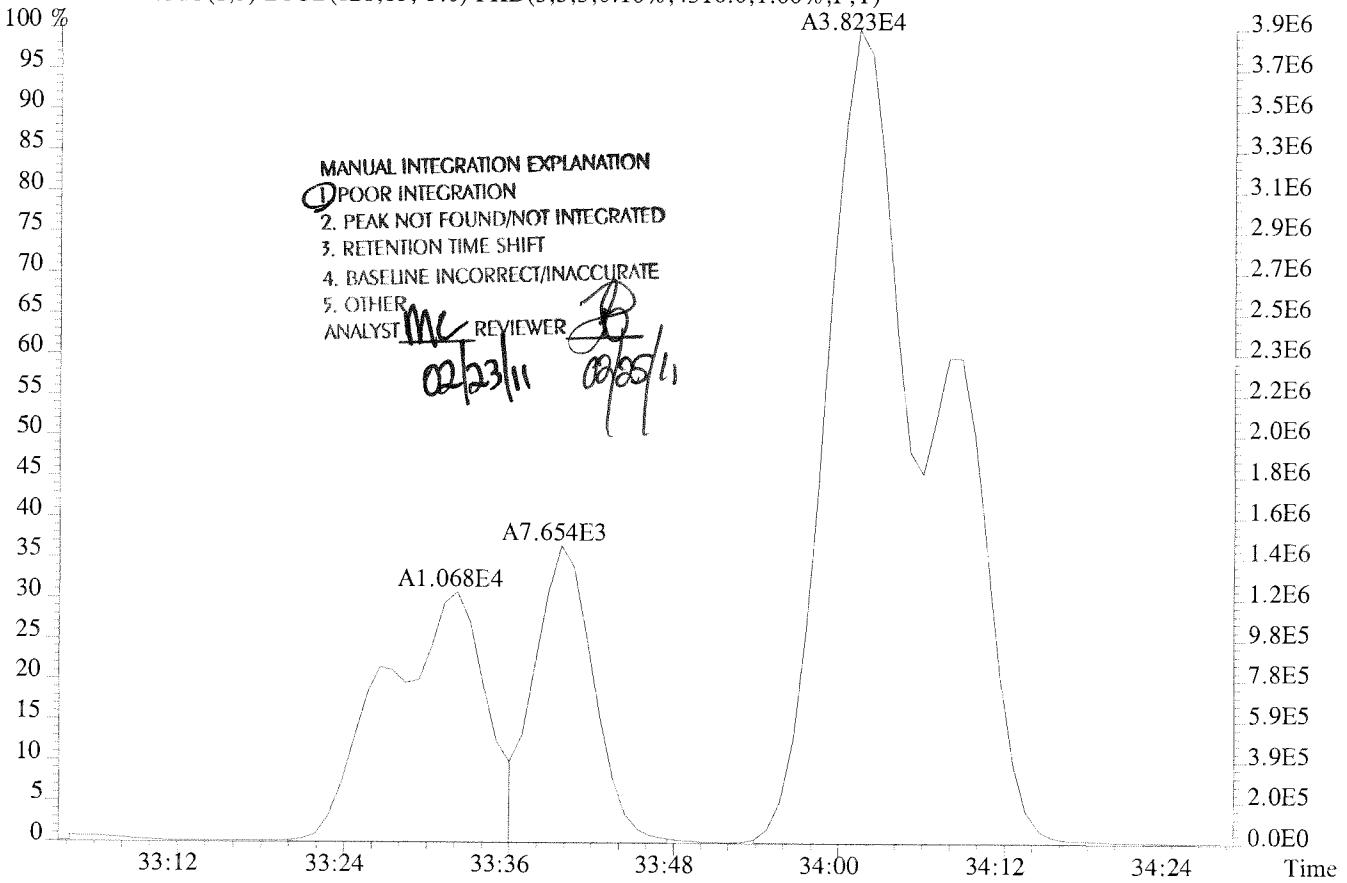
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139139 #1-308 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5712.0,1.00%,F,T)



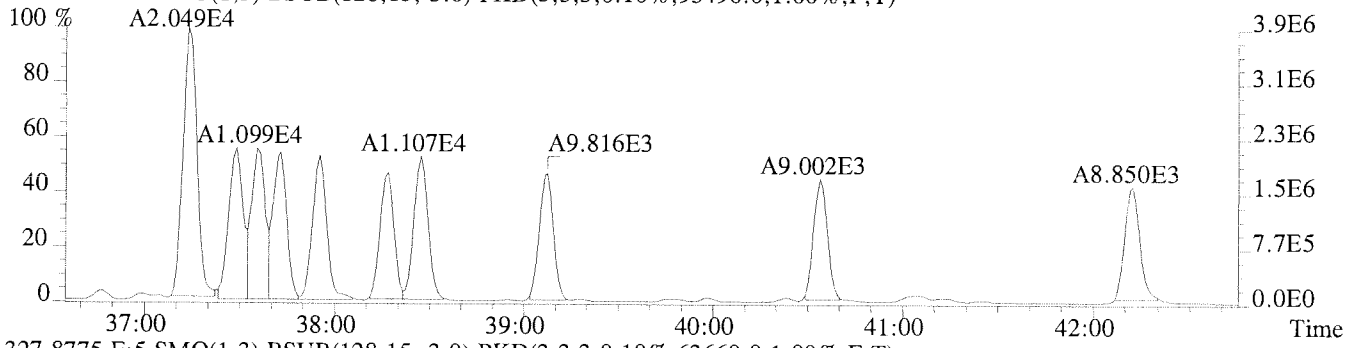
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4316.0,1.00%,F,T)



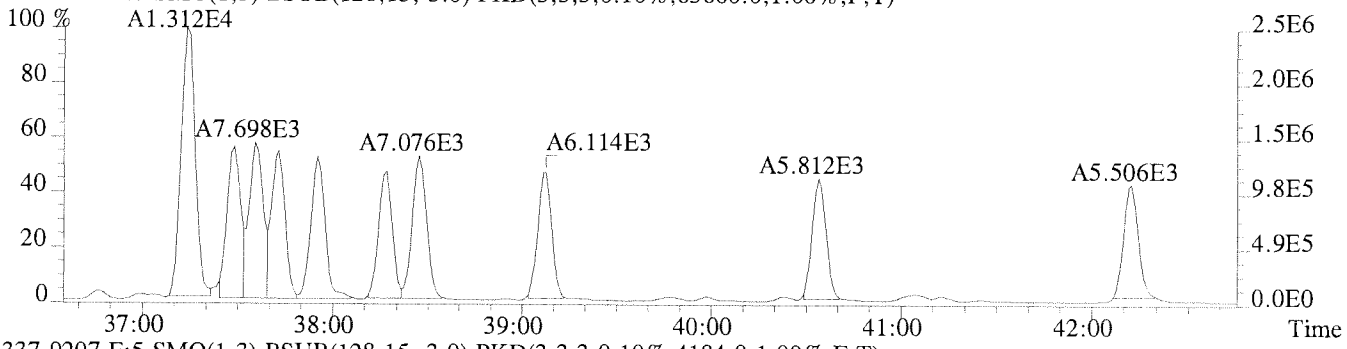
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/23/11 02/25/11

File:U139139 #1-395 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

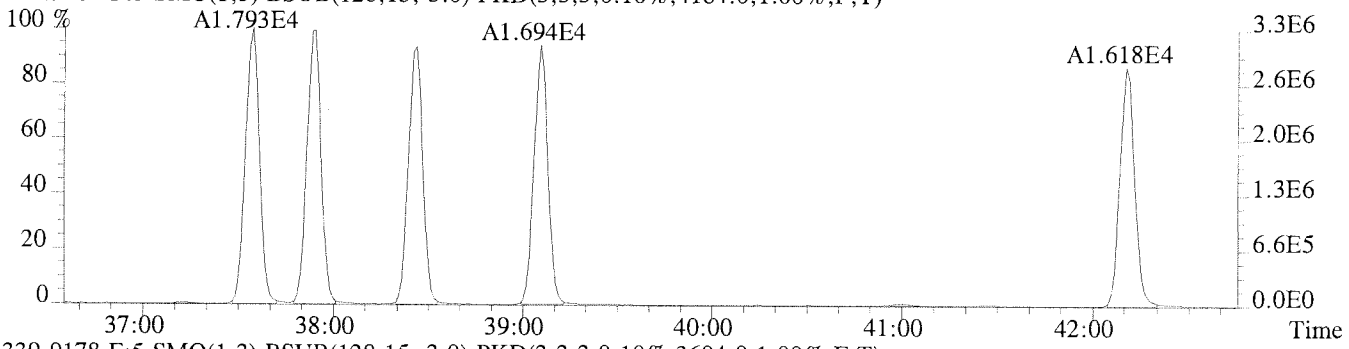
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,95496.0,1.00%,F,T)



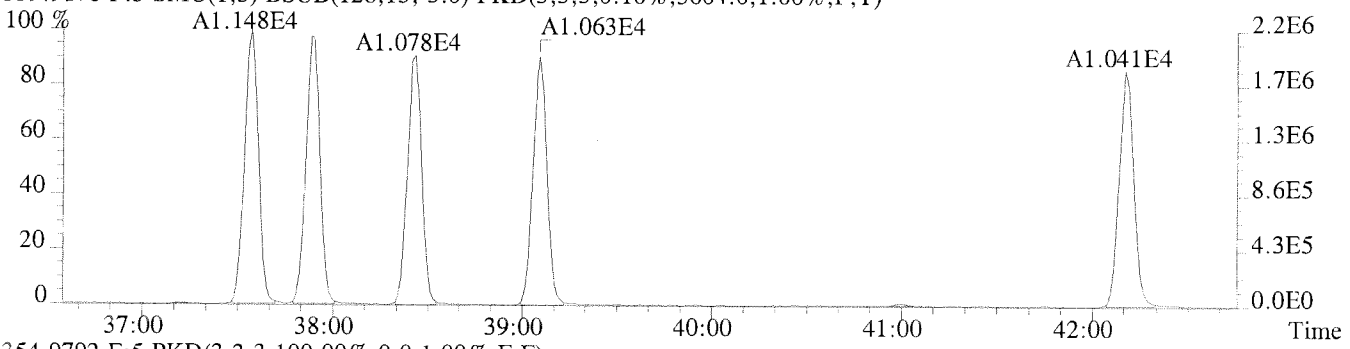
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,63660.0,1.00%,F,T)



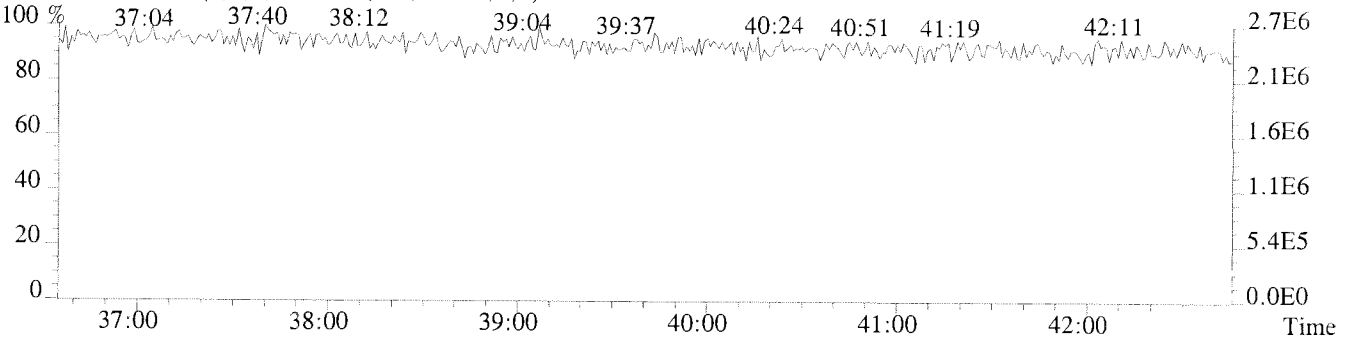
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4184.0,1.00%,F,T)



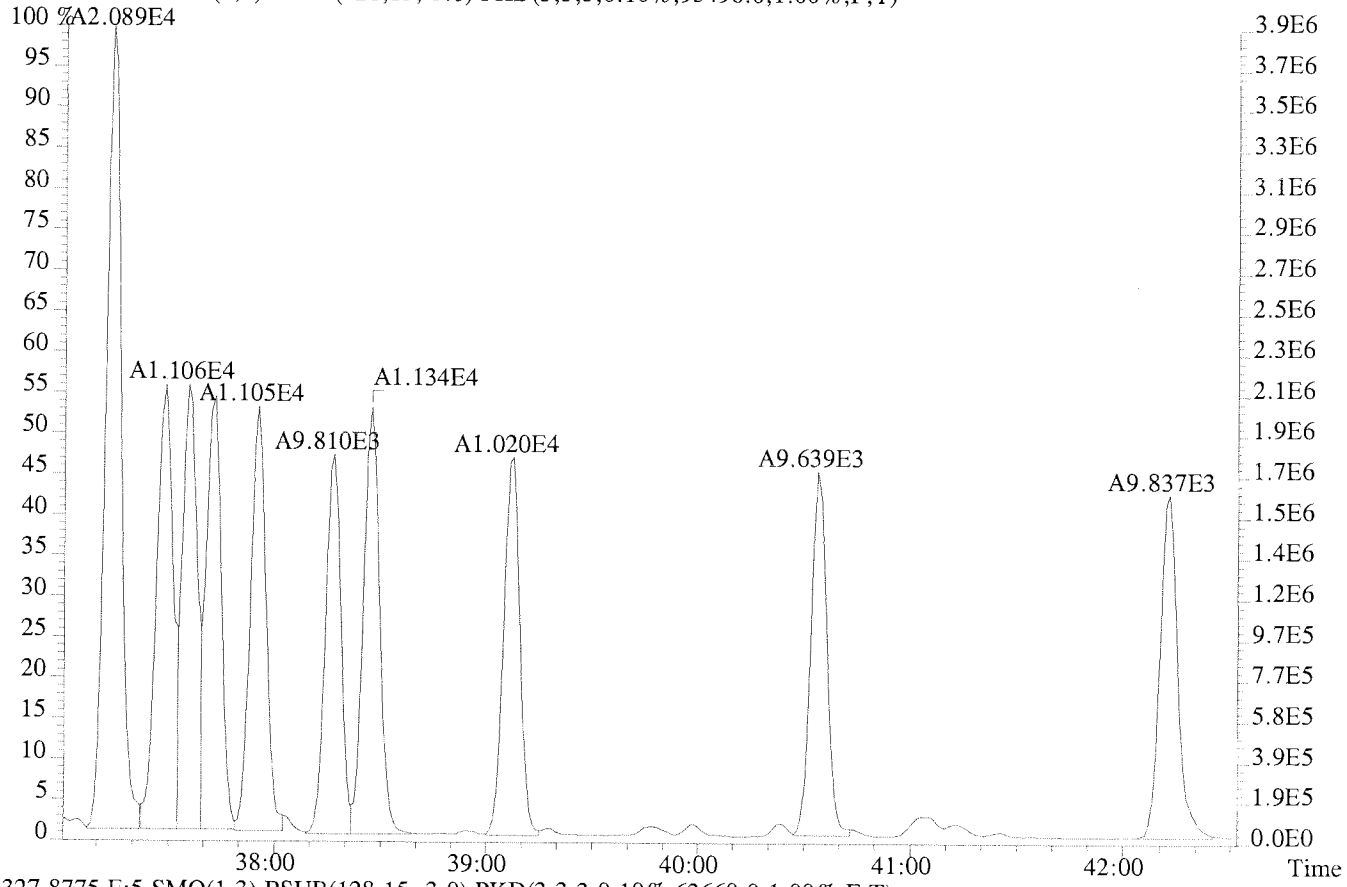
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3604.0,1.00%,F,T)



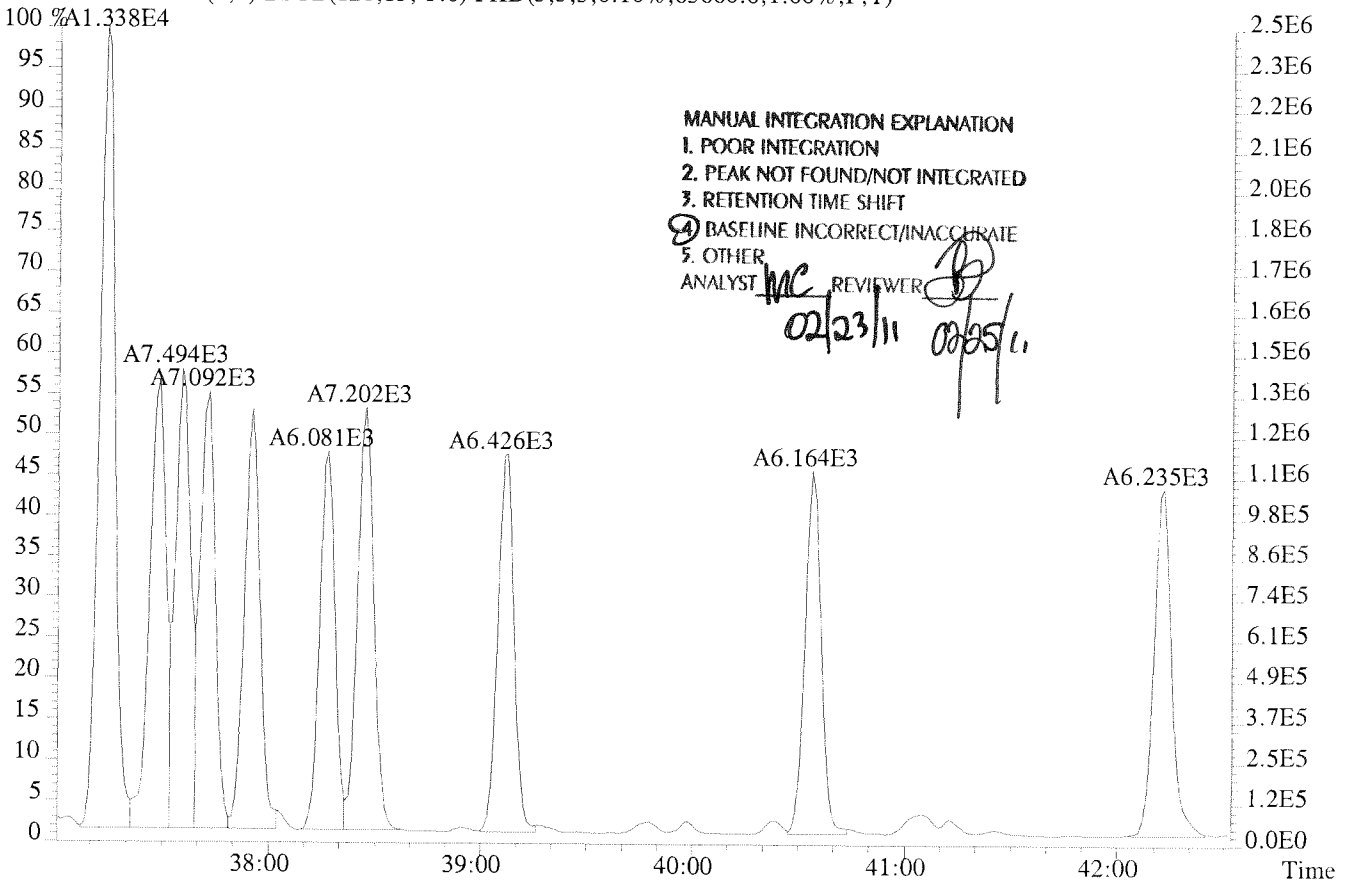
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139139 #1-395 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,95496.0,1.00%,F,T)



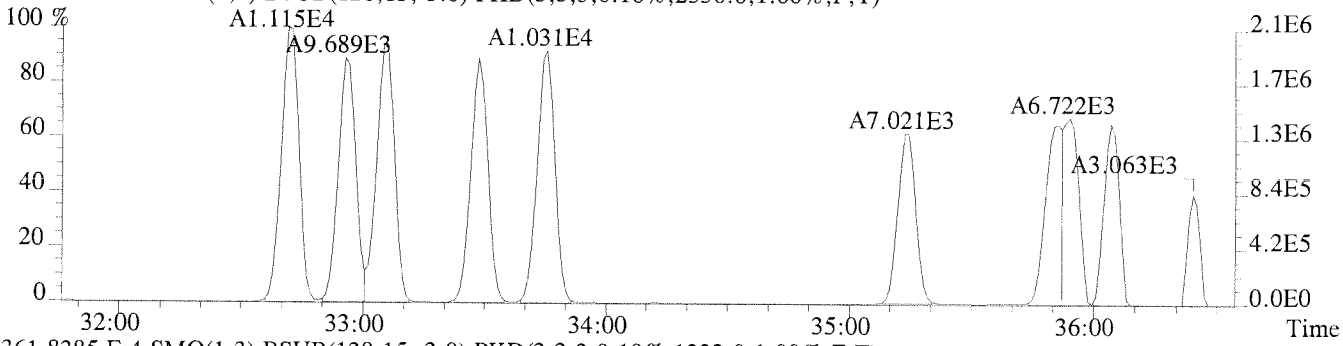
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,63660.0,1.00%,F,T)



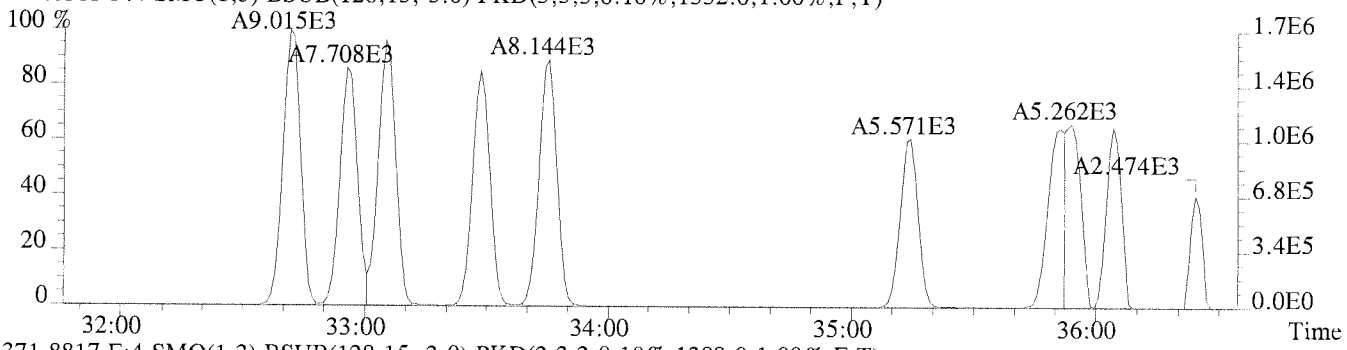
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC 02/23/11 REVIEWER 02/25/11

File:U139139 #1-308 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

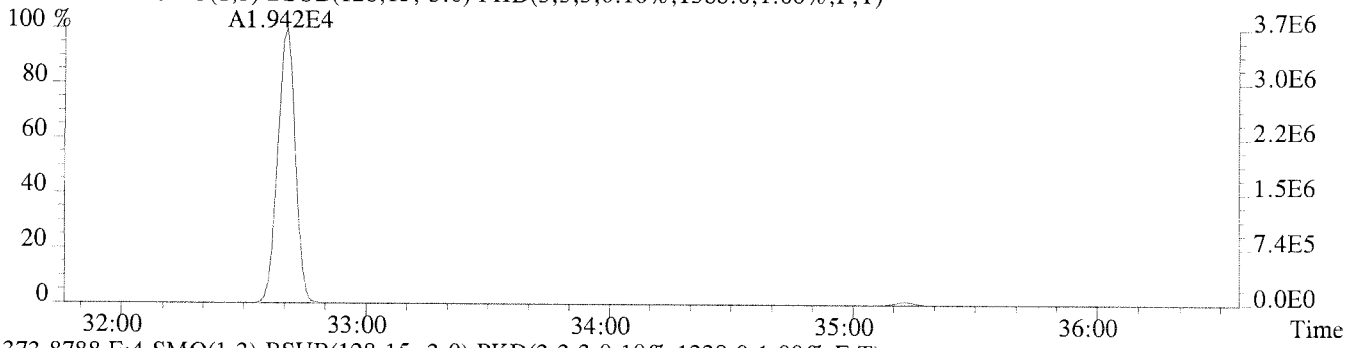
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2556.0,1.00%,F,T)



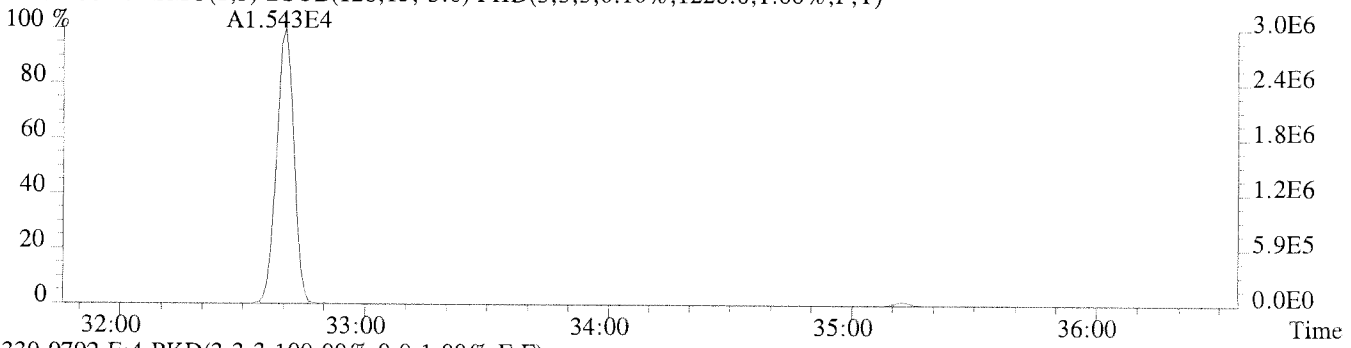
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1332.0,1.00%,F,T)



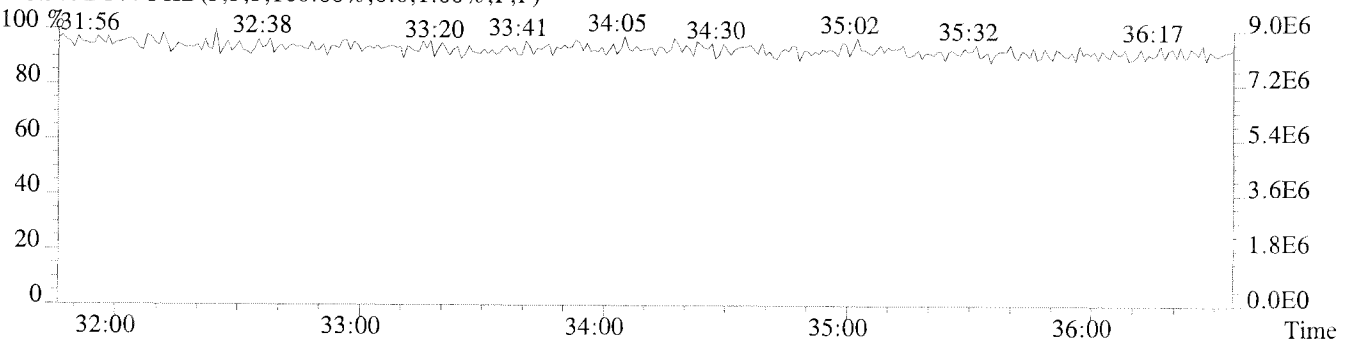
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1388.0,1.00%,F,T)



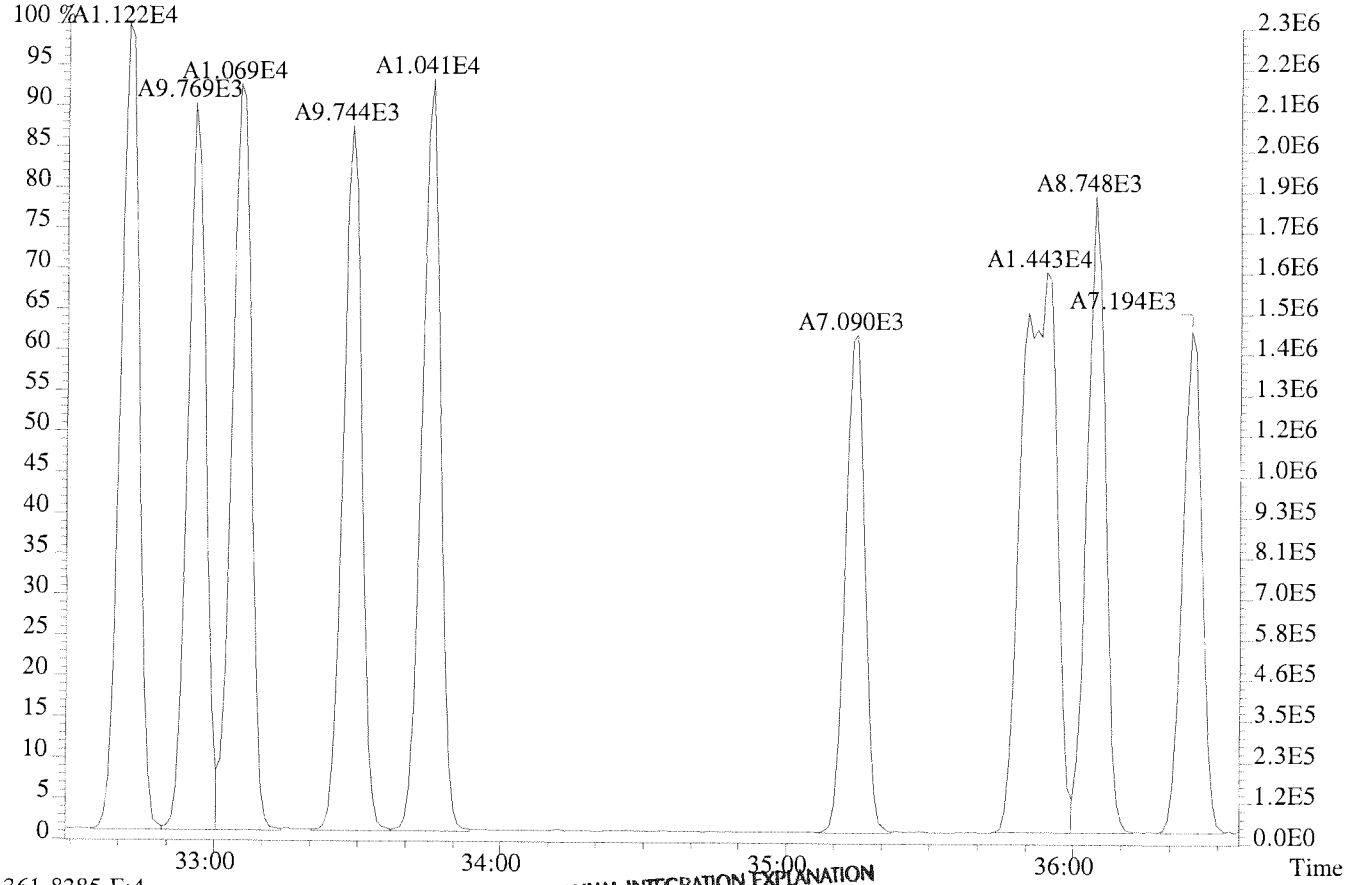
373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1228.0,1.00%,F,T)



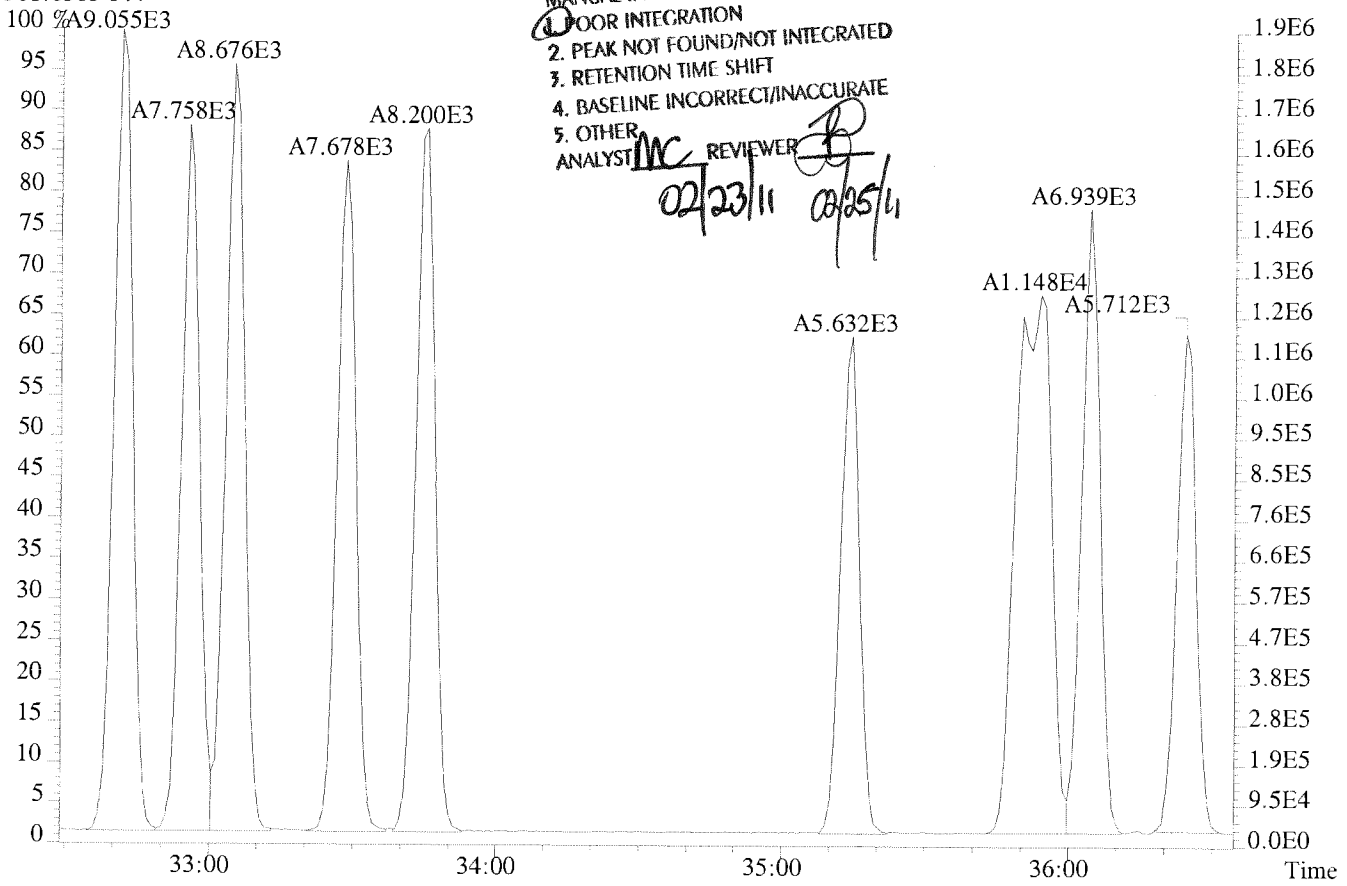
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139139 #1-308 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
359.8415 F:4



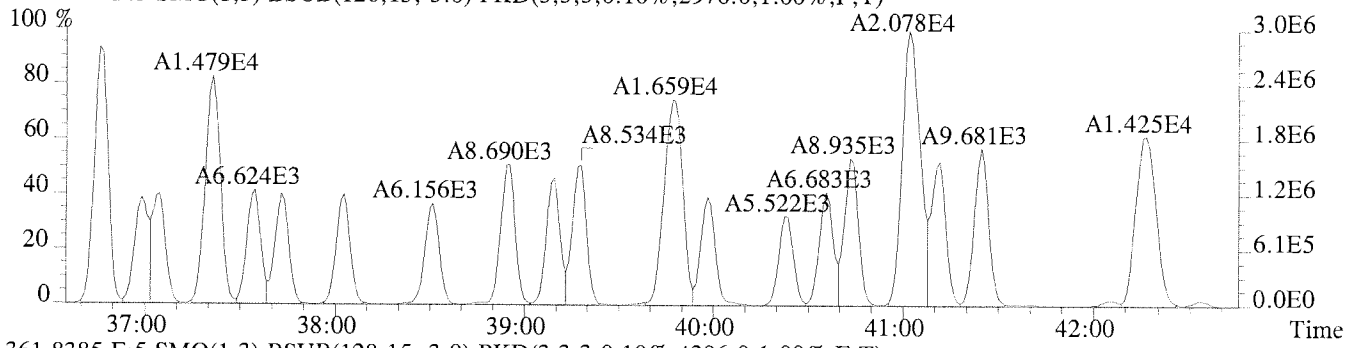
361.8385 F:4



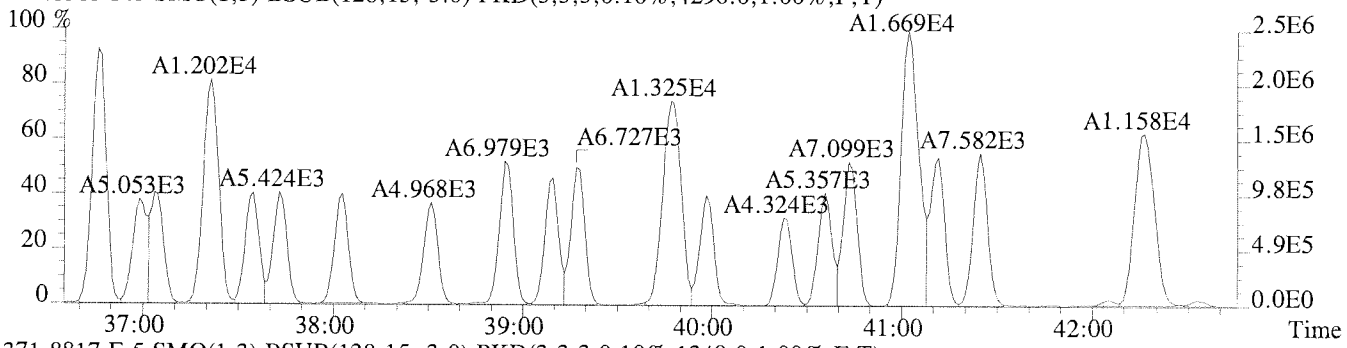
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC 02/23/11 REVIEWER 03/25/11

File:U139139 #1-395 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

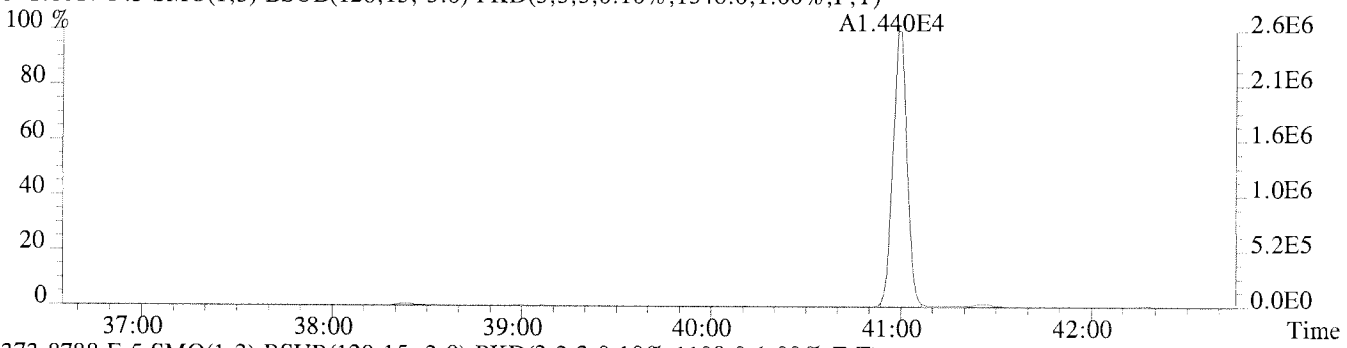
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2976.0,1.00%,F,T)



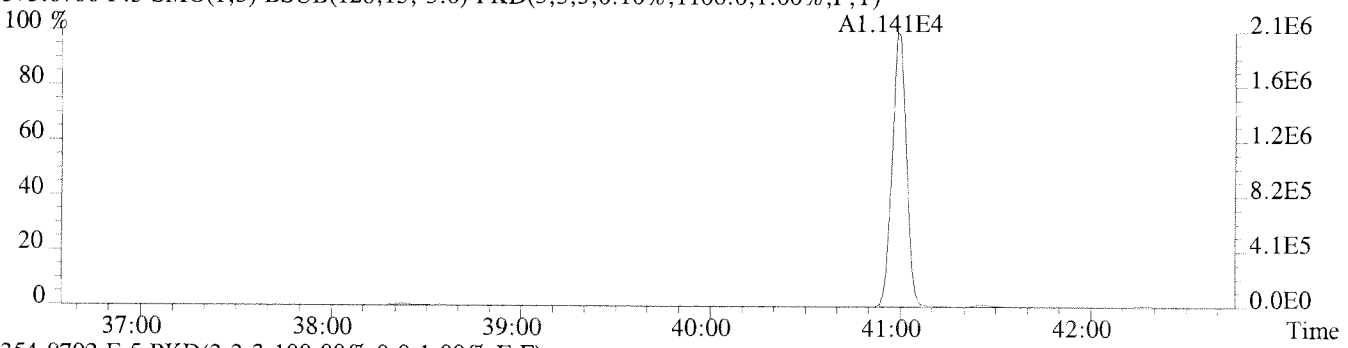
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4296.0,1.00%,F,T)



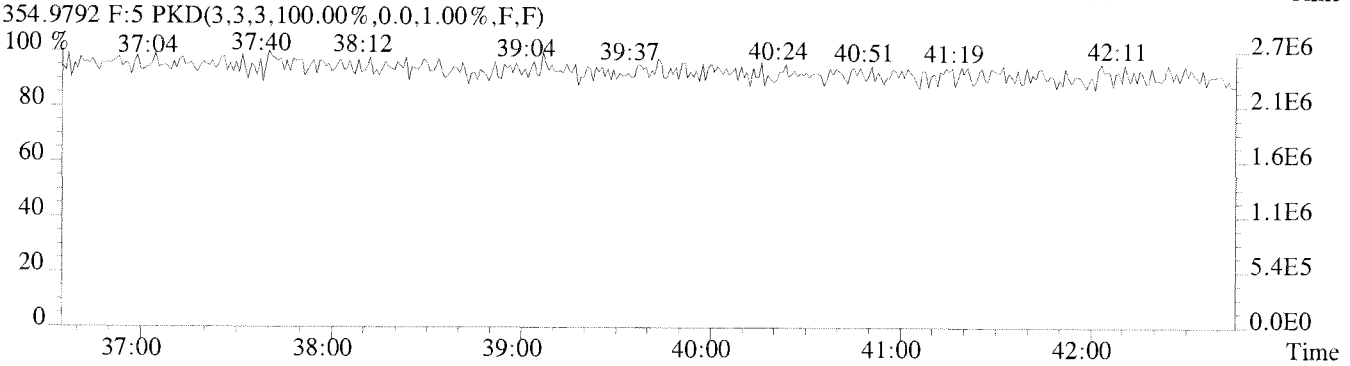
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1348.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1108.0,1.00%,F,T)

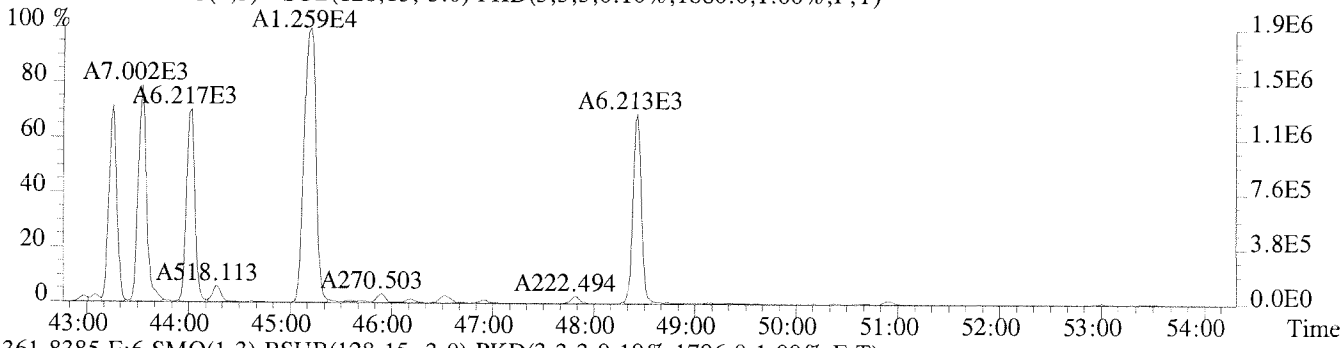


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

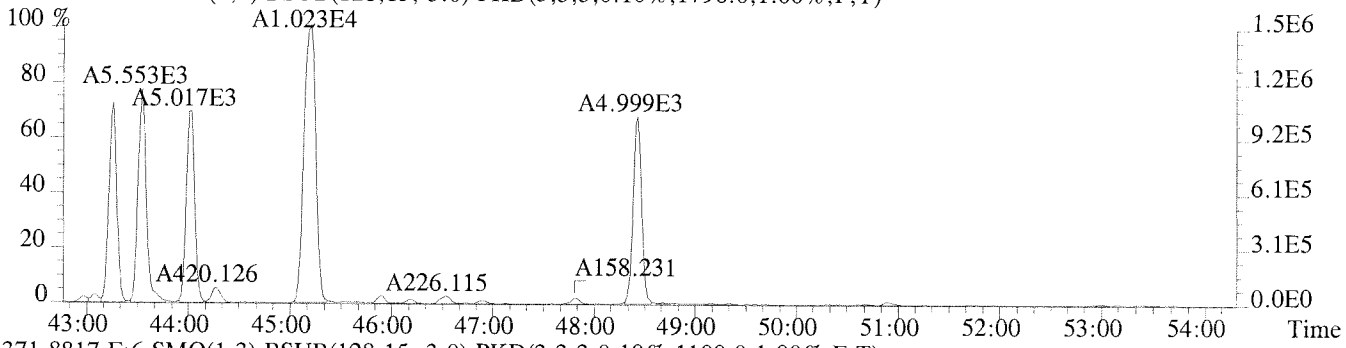


File:U139139 #1-572 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

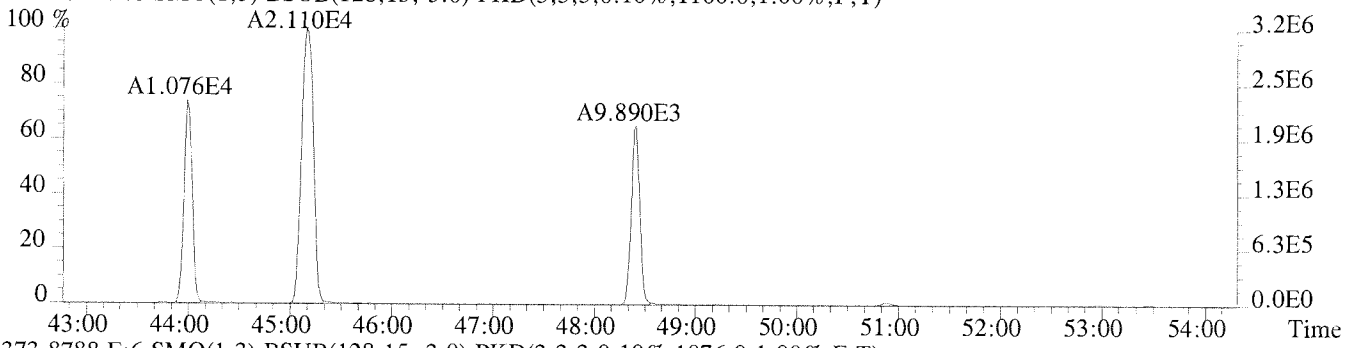
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1880.0,1.00%,F,T)



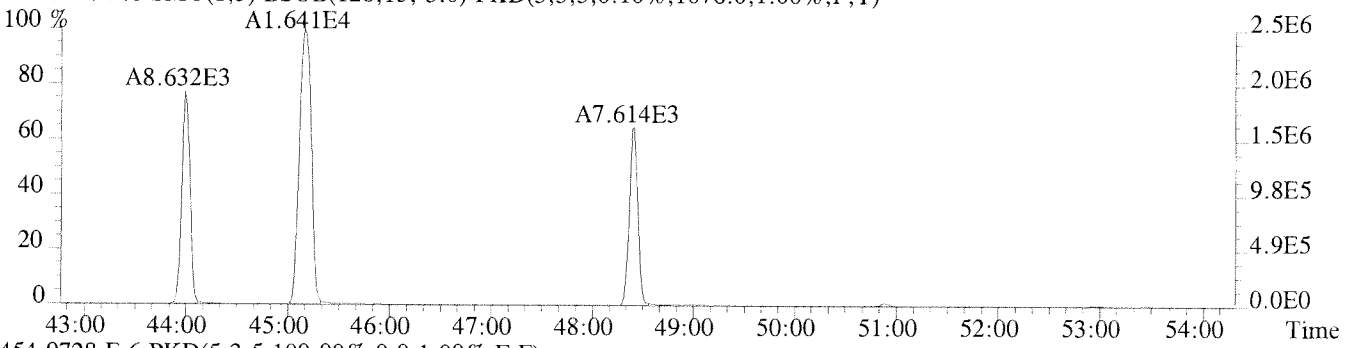
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1796.0,1.00%,F,T)



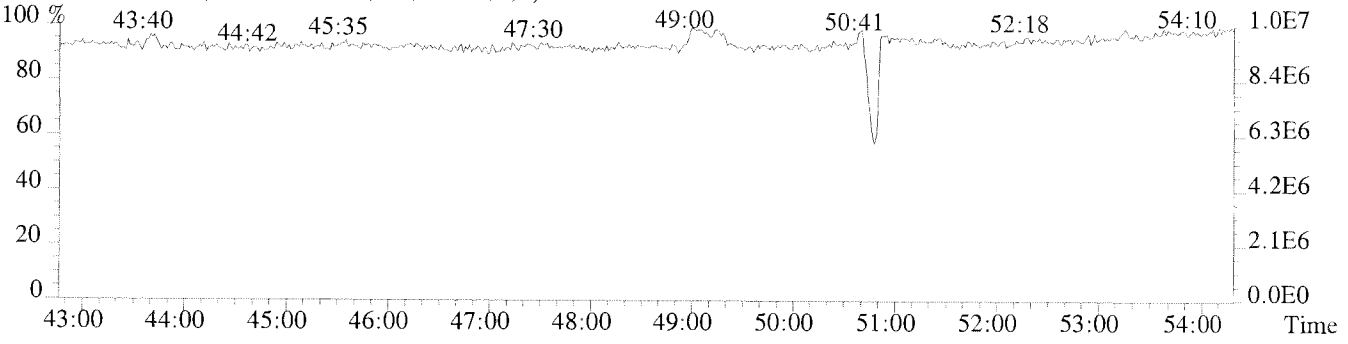
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1100.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1076.0,1.00%,F,T)

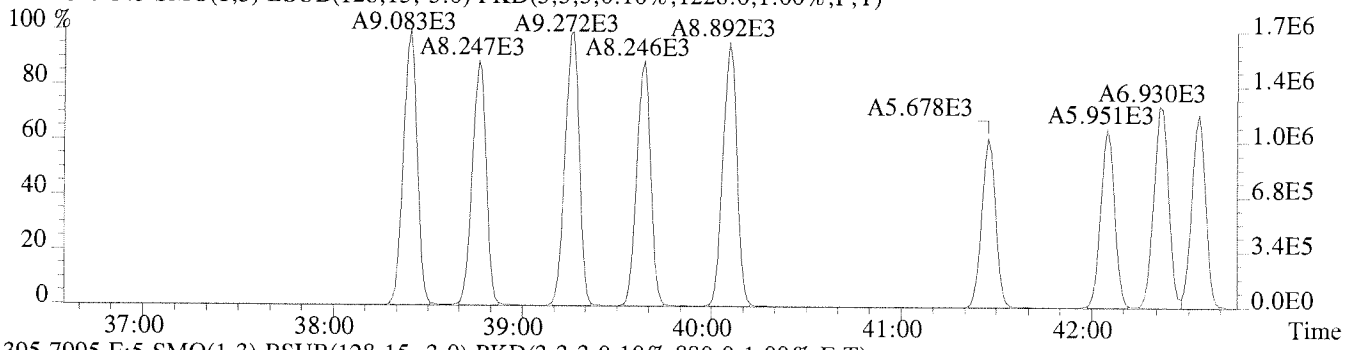


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

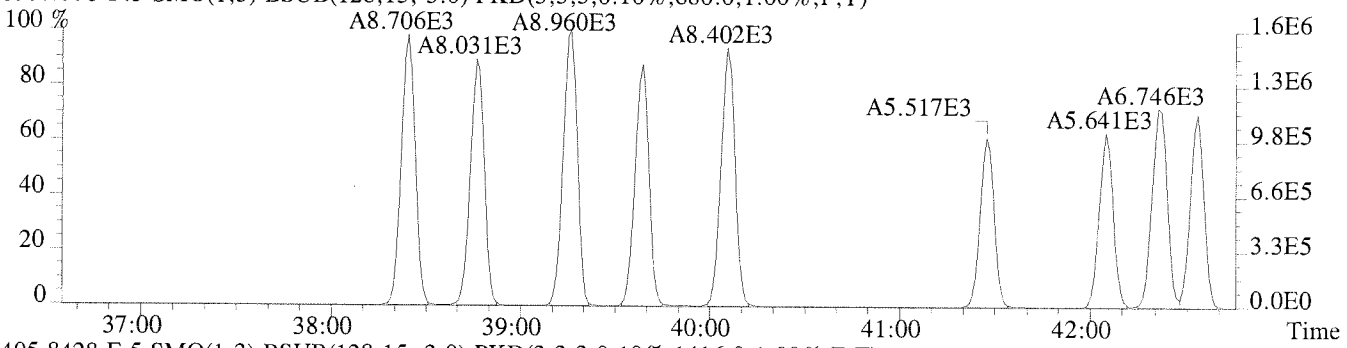


File:U139139 #1-395 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

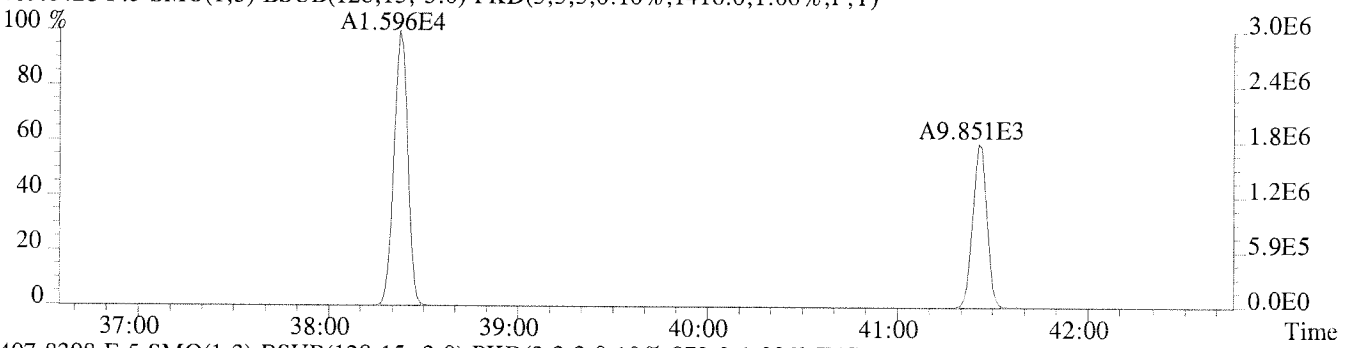
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1228.0,1.00%,F,T)



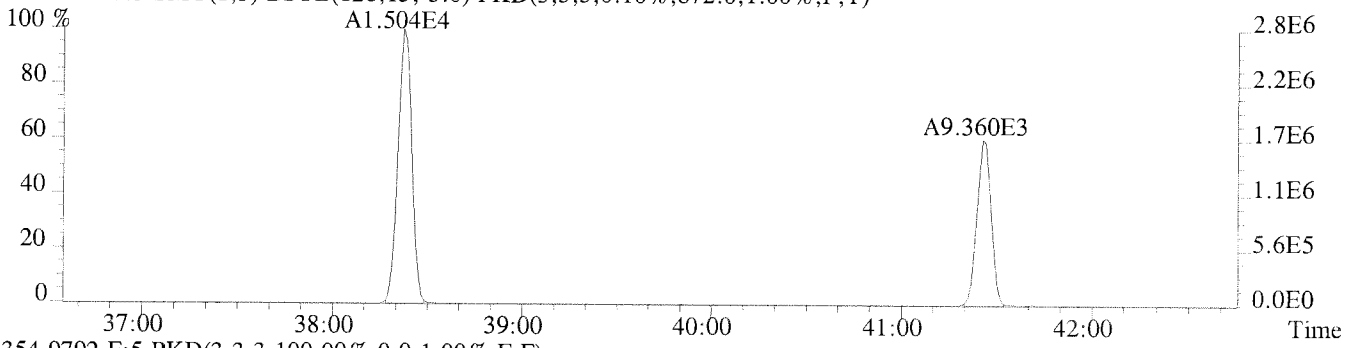
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



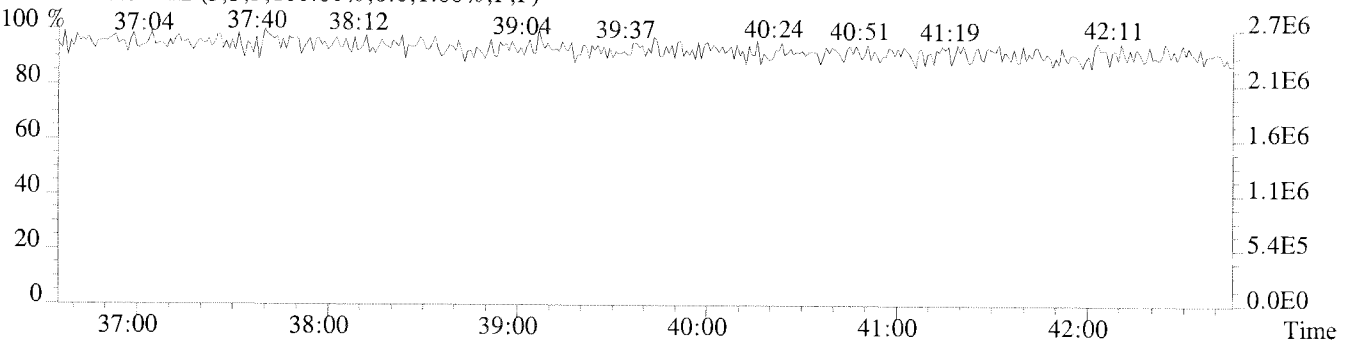
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1416.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)

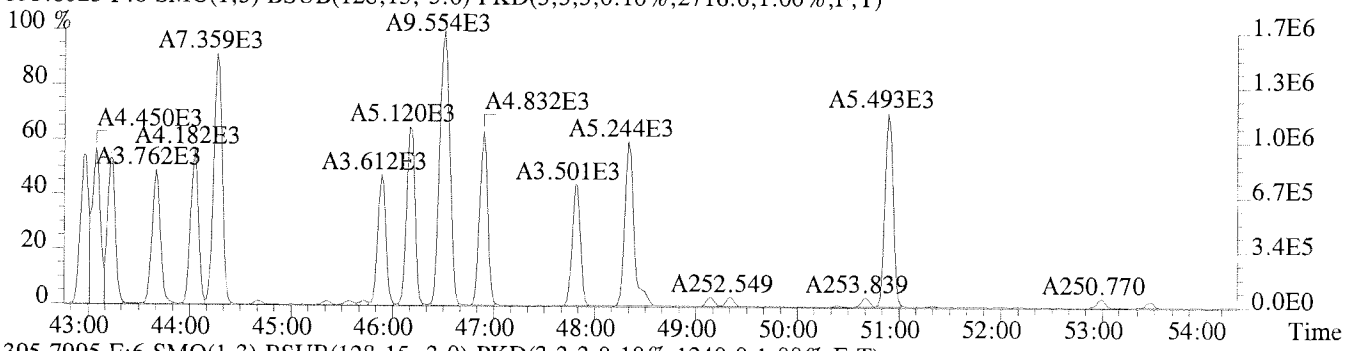


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

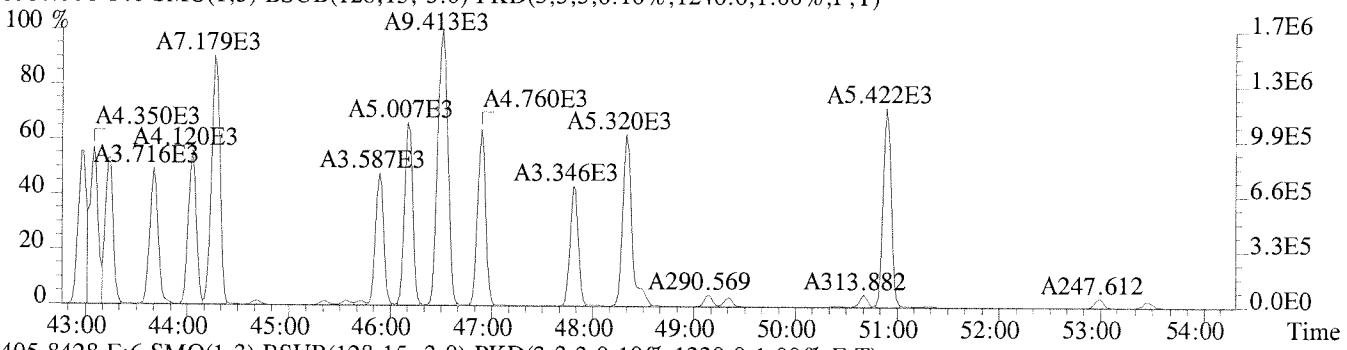


File:U139139 #1-572 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

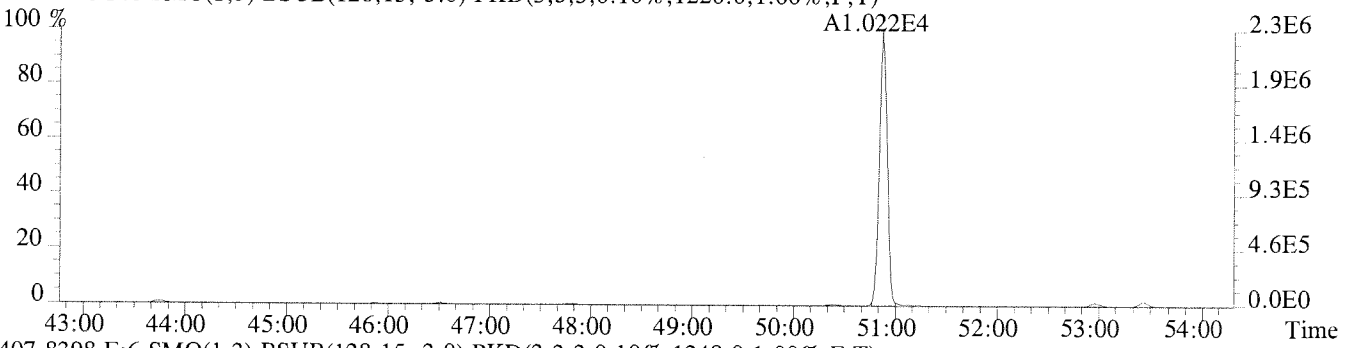
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2716.0,1.00%,F,T)



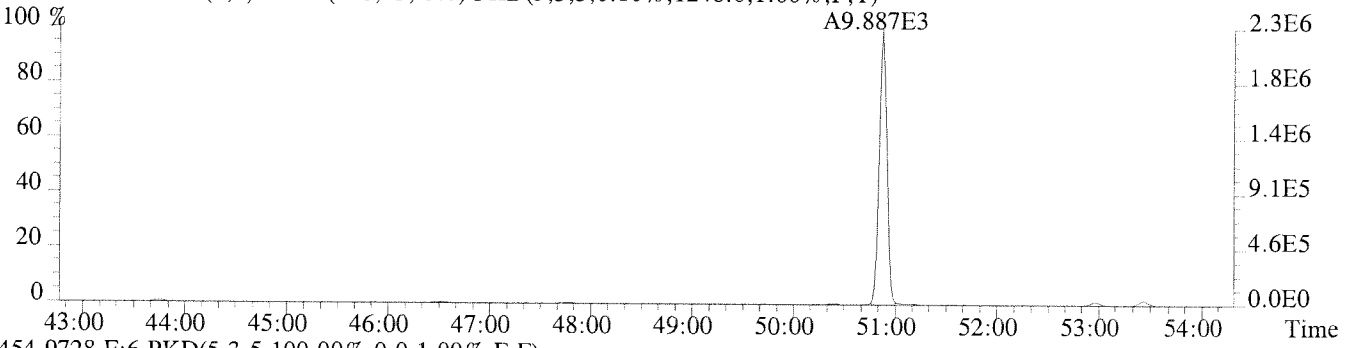
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1240.0,1.00%,F,T)



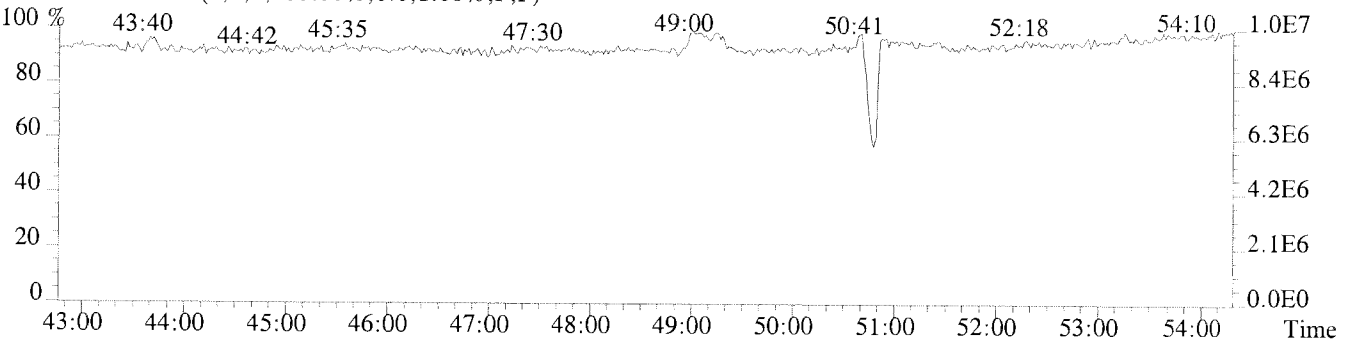
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)



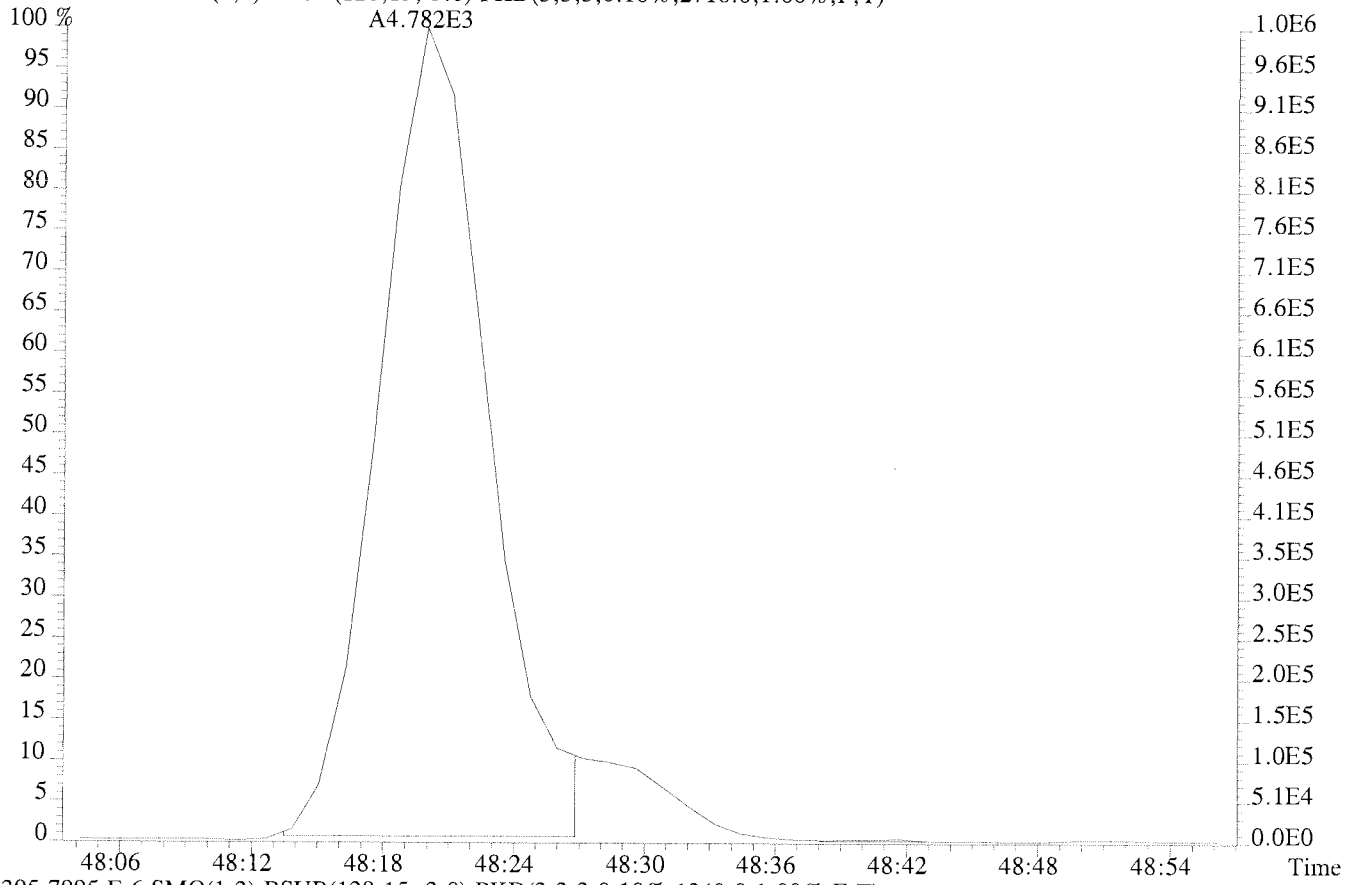
407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1248.0,1.00%,F,T)



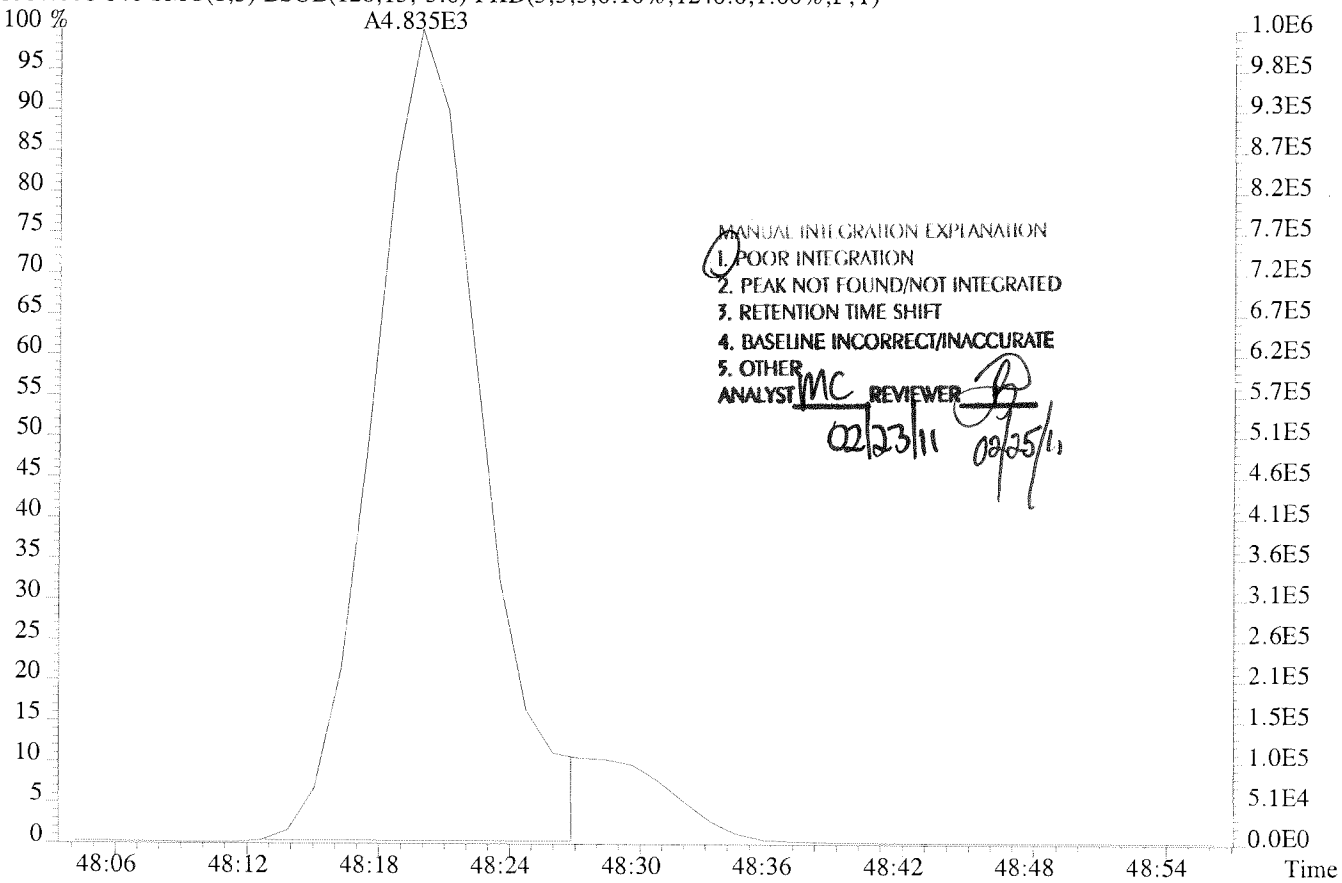
454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



File:U139139 #1-572 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2716.0,1.00%,F,T)



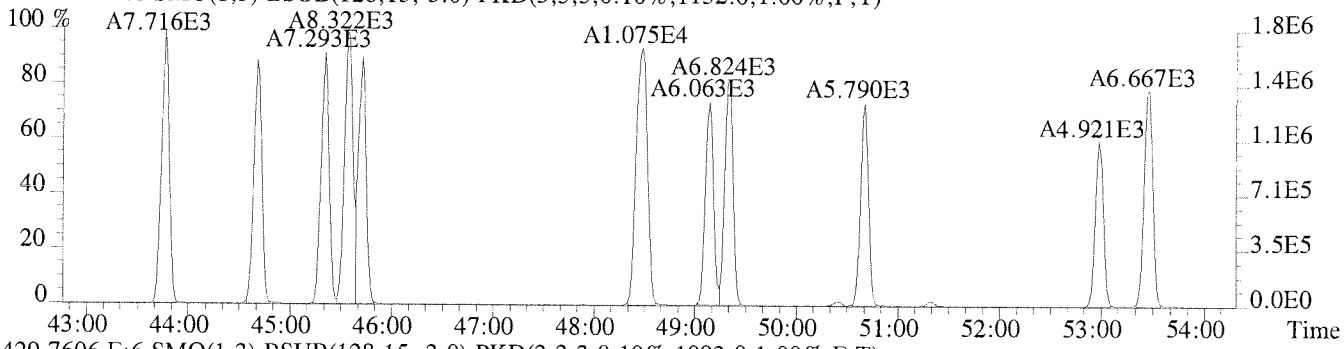
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1240.0,1.00%,F,T)



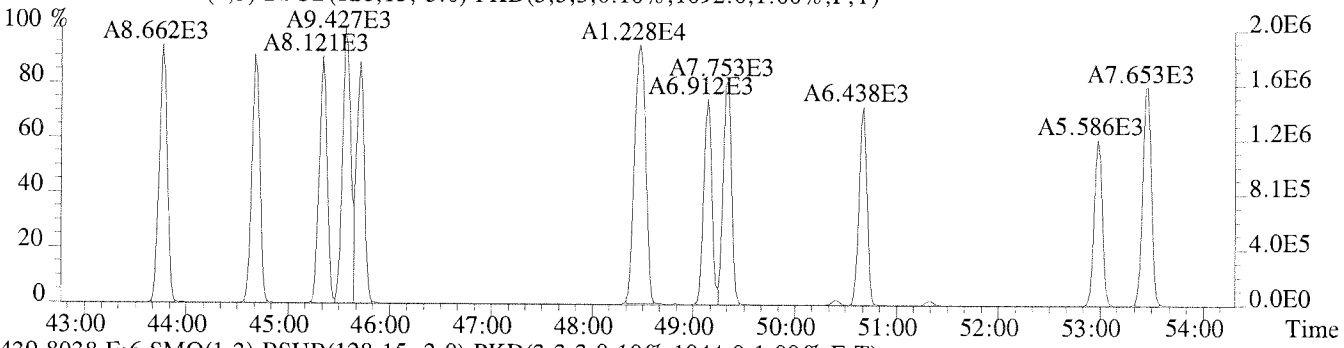
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/23/11 02/25/11

File:U139139 #1-572 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

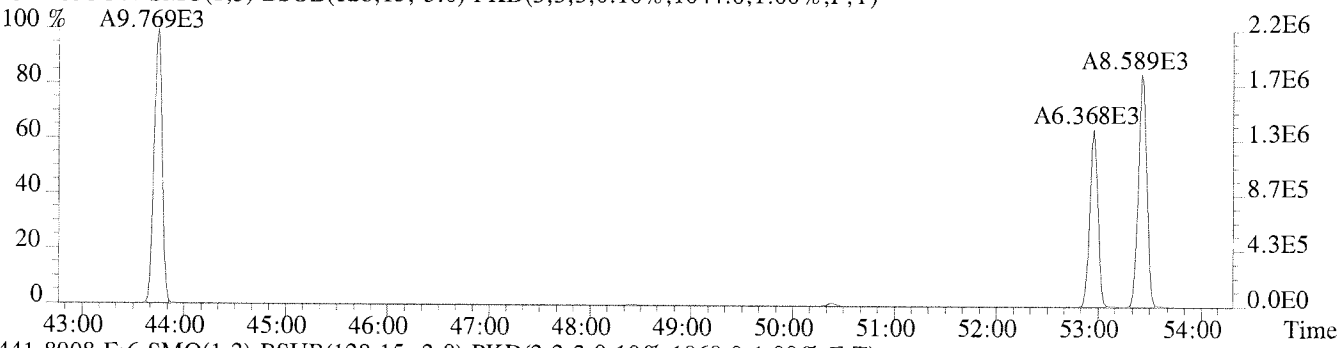
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1152.0,1.00%,F,T)



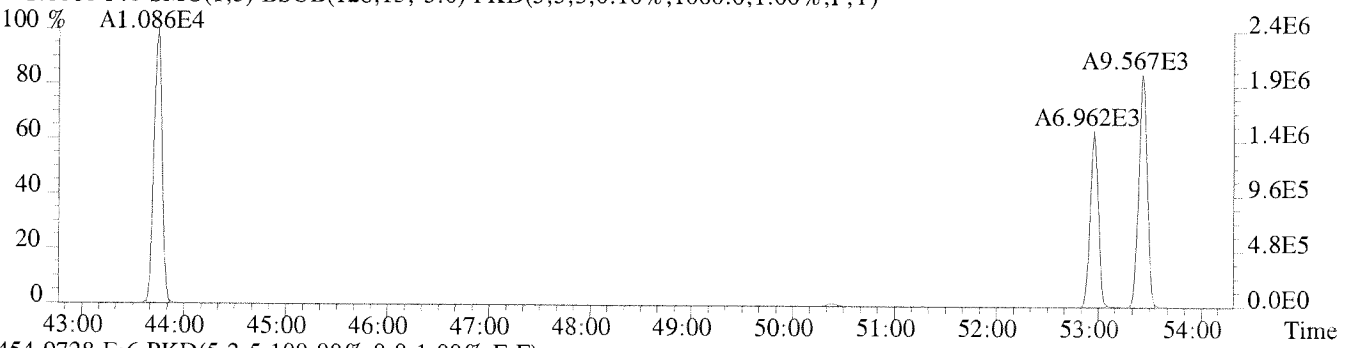
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1092.0,1.00%,F,T)



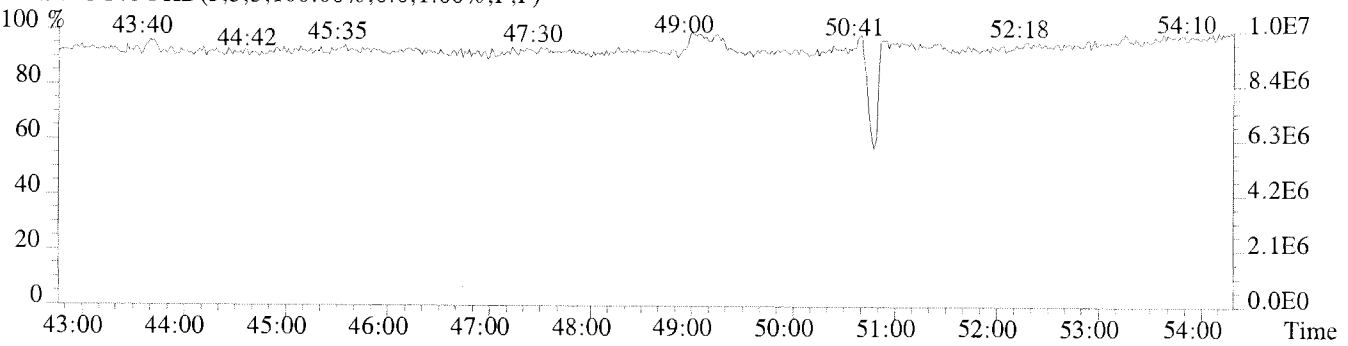
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1044.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1060.0,1.00%,F,T)

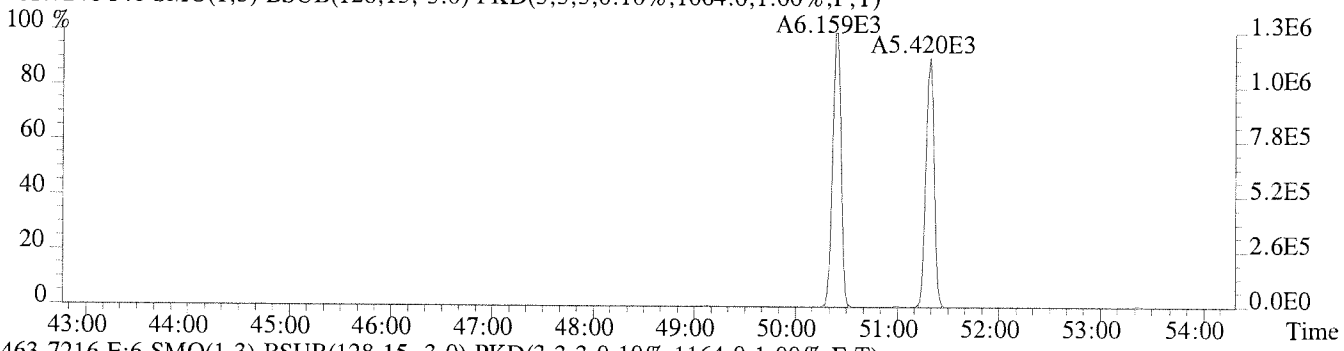


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

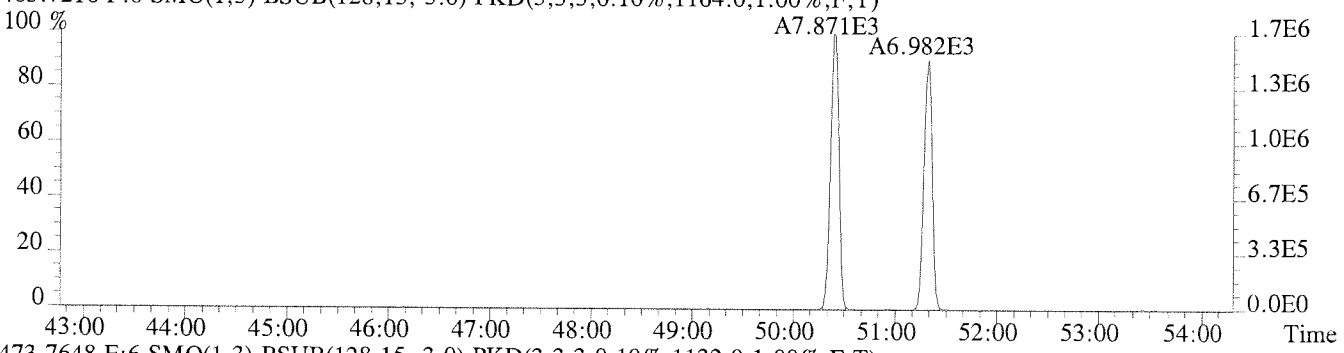


File:U139139 #1-572 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

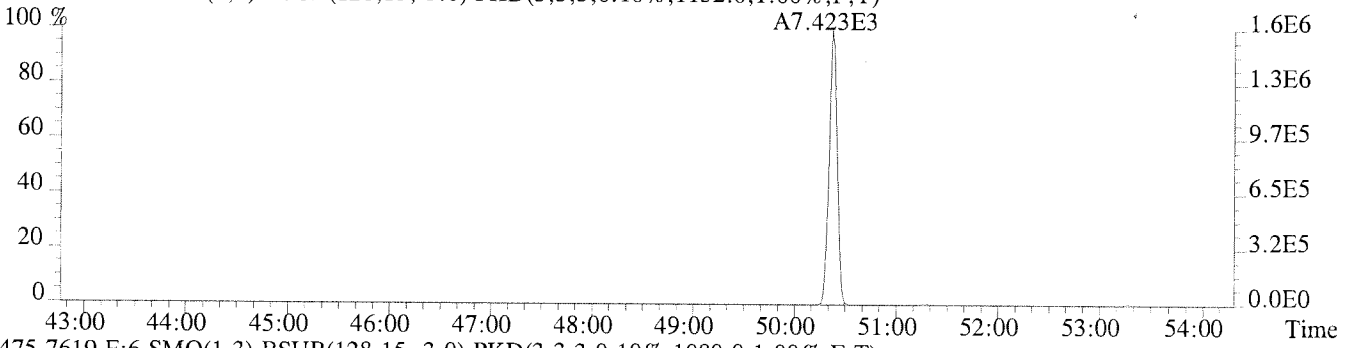
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)



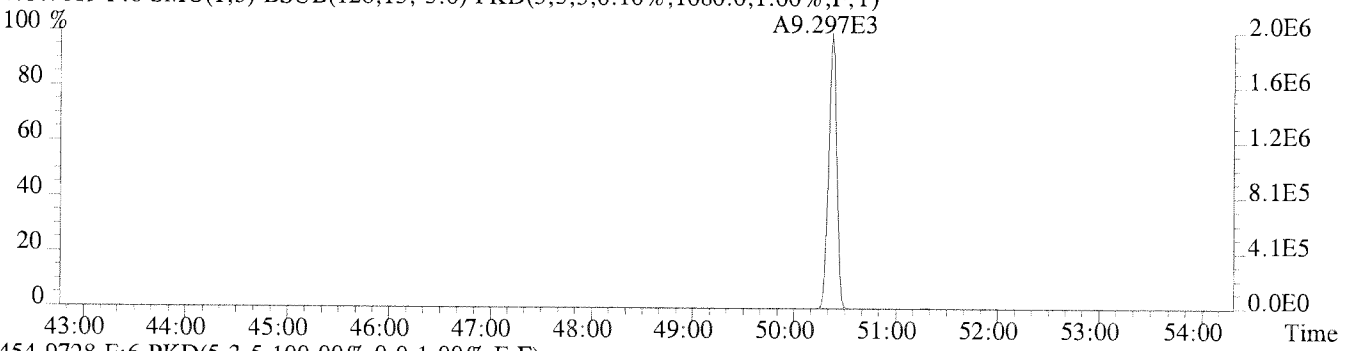
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1164.0,1.00%,F,T)



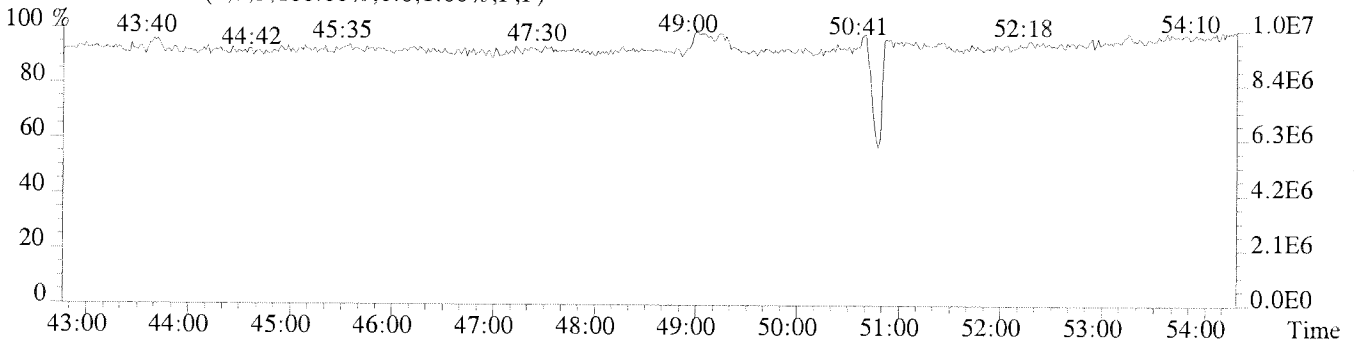
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1132.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)

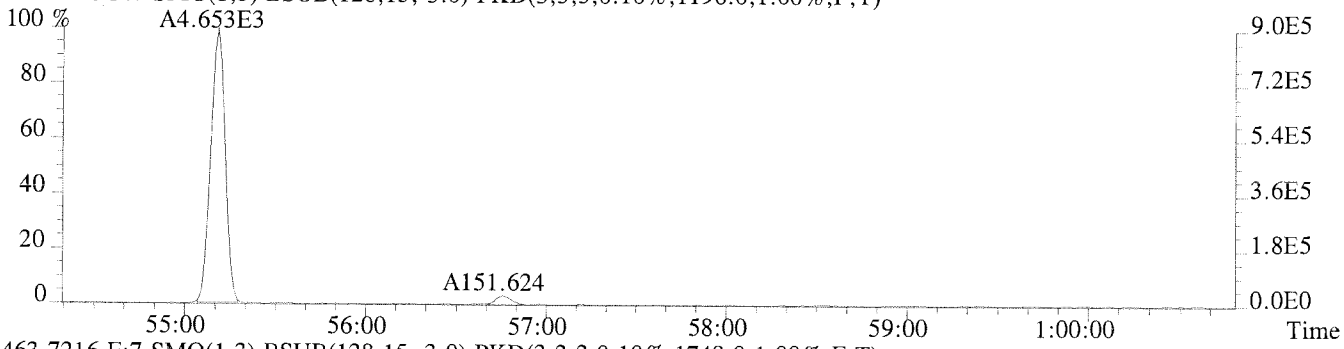


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

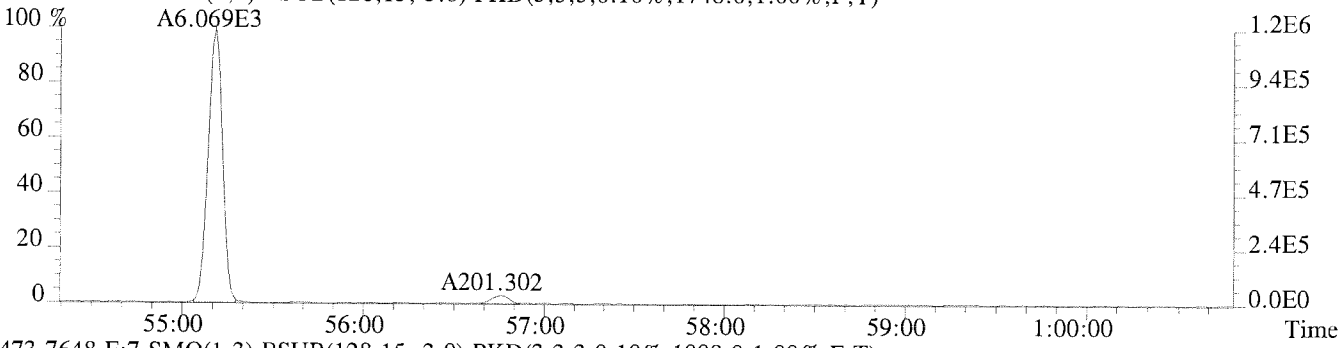


File:U139139 #1-366 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

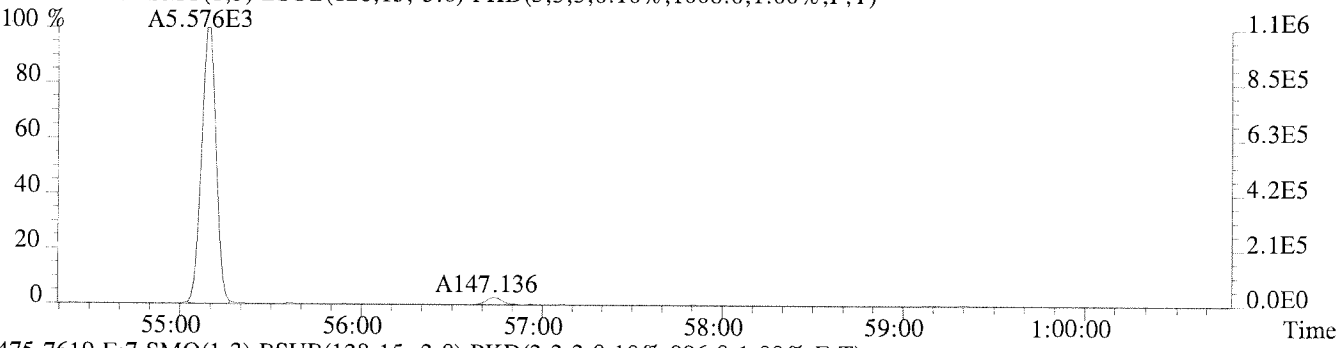
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1196.0,1.00%,F,T)



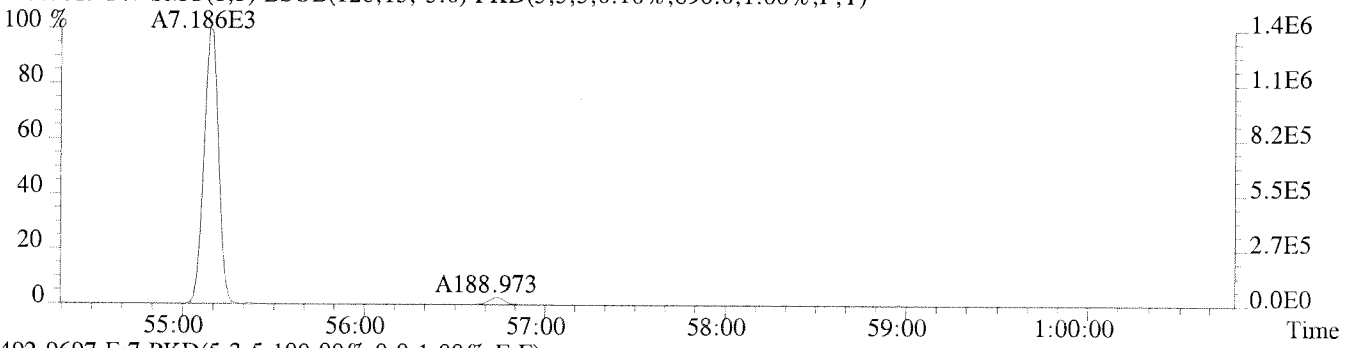
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1748.0,1.00%,F,T)



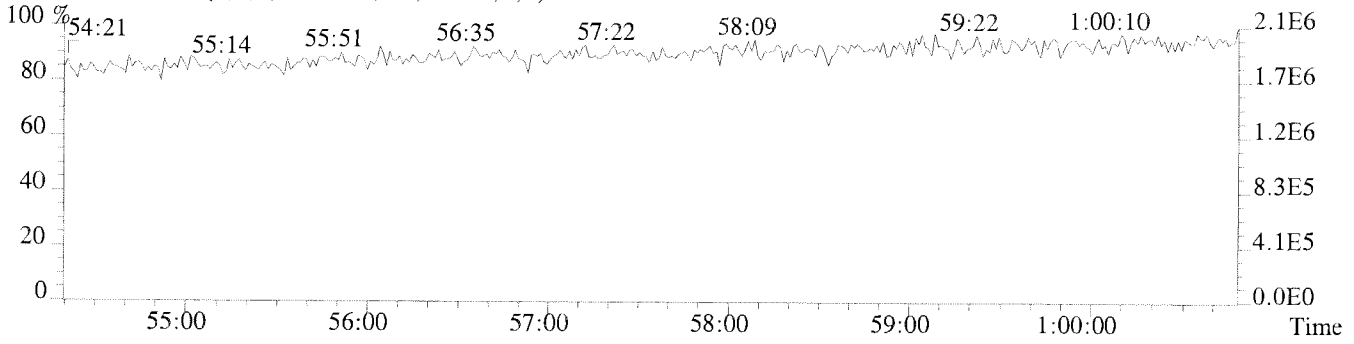
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)

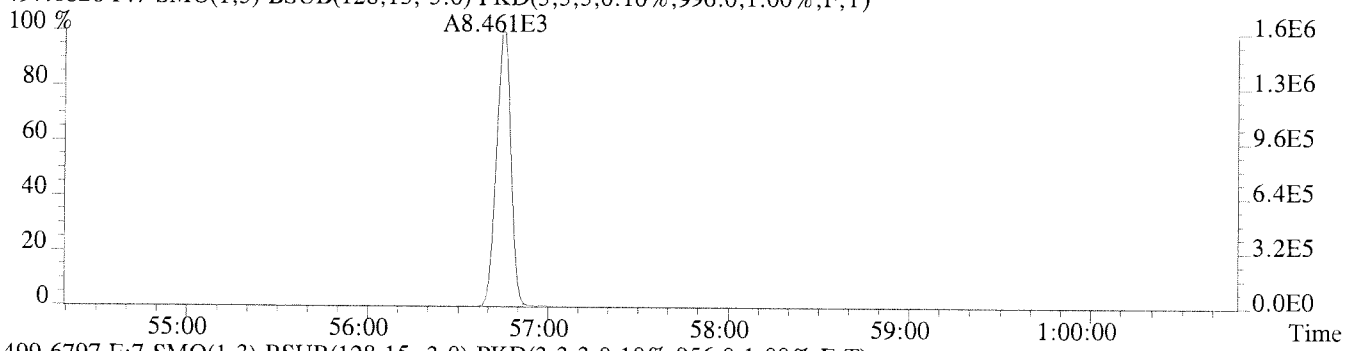


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

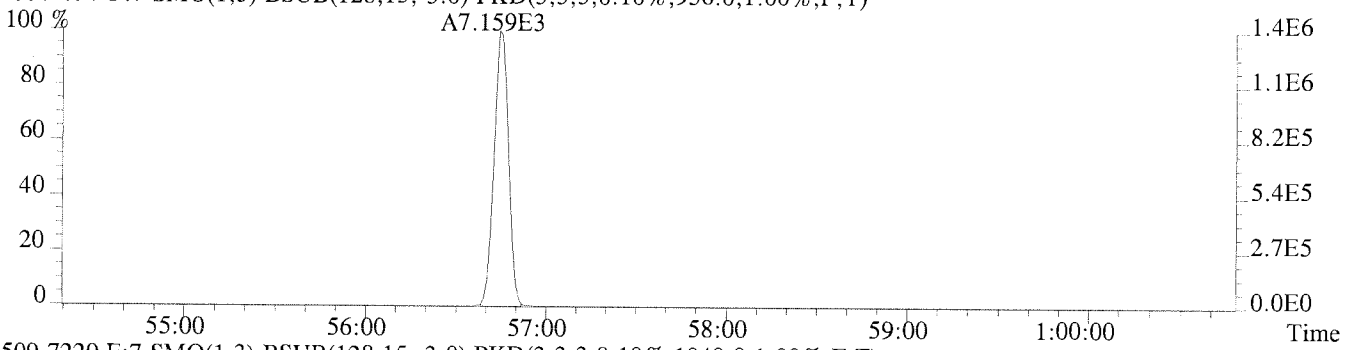


File:U139139 #1-366 Acq:23-FEB-2011 09:22:35 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:PCB 209 INJECTION

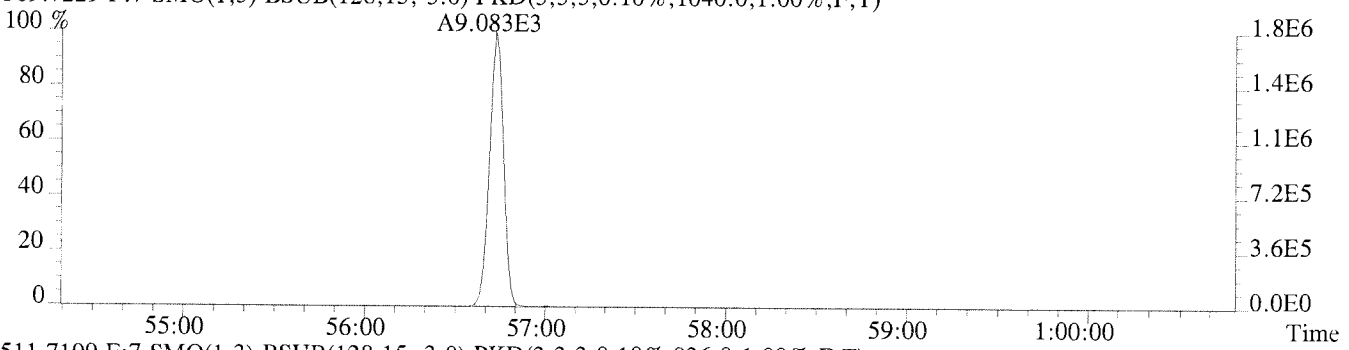
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,996.0,1.00%,F,T)



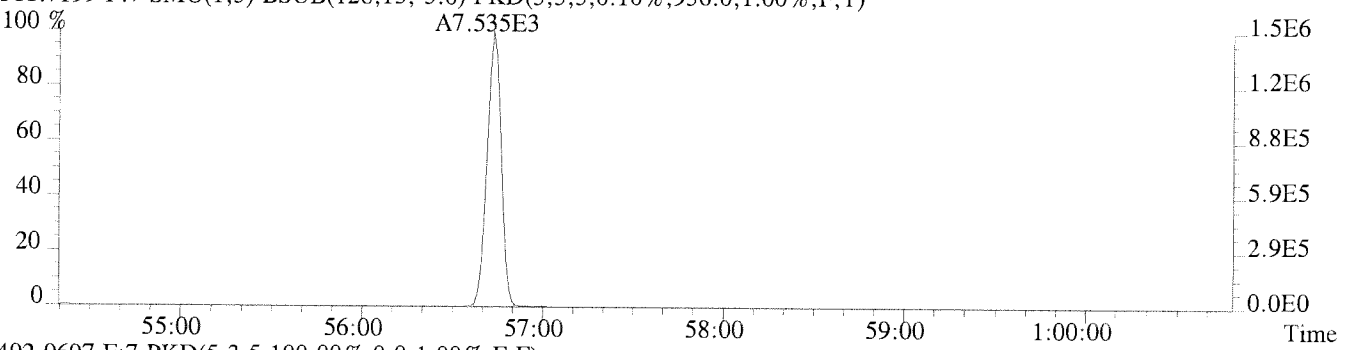
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,956.0,1.00%,F,T)



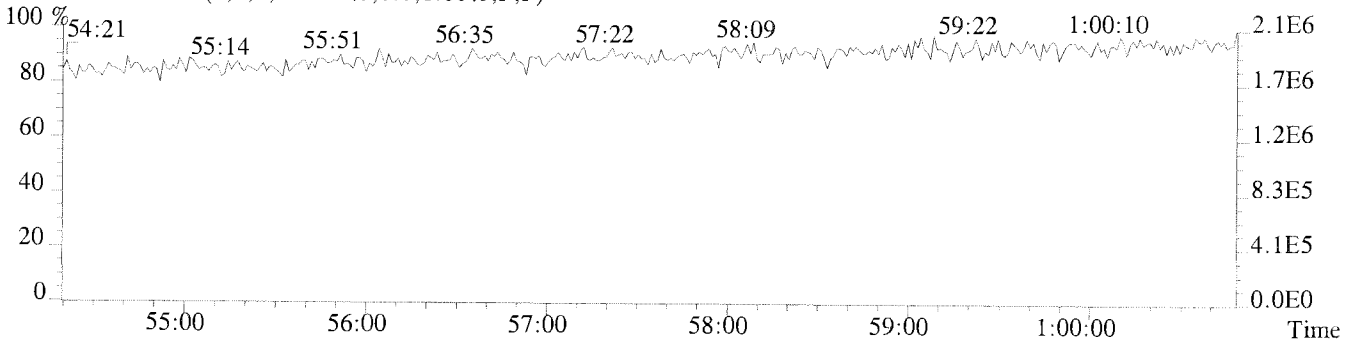
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,936.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



FORM 3A
PCB INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 02/23/11

Instrument ID: AutoSpec-Ultima GC Column: SPB-Octyl

CS1 Data Filename: U139142 CS4 Data Filename: U139144

CS2 Data Filename: U139141 CS5 Data Filename: U139145

CS3 Data Filename: U139143 CS6 Data Filename: U139146

NATIVE ANALYTES	IUPAC	RELATIVE RESPONSE (RR) CS1	CS2	CS3	CS4	CS5	CS6	MEAN RR	Cv (RSD) (1)
2-MoCB	1	1.14	1.06	1.06	1.12	1.08	0.96	1.07	5.68
4-MoCB	3	1.01	1.08	1.07	1.06	1.07	0.93	1.04	5.46
22'-DiCB	4	1.20	1.13	1.12	1.10	1.13	1.01	1.11	5.51
44'-DiCB	15	0.90	0.95	0.99	1.04	1.03	0.95	0.98	5.64
22'6'-TrCB	19	1.00	0.98	1.03	1.00	1.02	0.97	1.00	2.11
344'-TrCB	37	1.12	1.03	1.10	1.09	1.13	1.06	1.09	3.46
22'66'-TeCB	54	1.07	0.96	1.05	0.99	1.01	0.93	1.00	5.48
344'5-TeCB	81	1.10	0.98	1.06	1.02	1.04	0.99	1.03	4.33
33'44'-TeCB	77	1.00	0.93	1.04	1.01	1.01	0.98	1.00	3.72
22'466'-PeCB	104	1.04	1.03	1.05	1.04	1.07	0.96	1.03	3.66
2'344'5-PeCB	123	1.08	1.02	1.04	1.00	1.04	0.94	1.02	4.71
23'44'5-PeCB	118	1.04	1.00	0.99	1.00	1.05	0.90	1.00	5.28
2344'5-PeCB	114	1.02	0.92	1.05	1.00	1.02	0.93	0.99	5.41
233'44'-PeCB	105	1.05	1.00	1.06	1.01	1.05	0.90	1.01	5.74
33'44'5-PeCB	126	0.98	0.92	1.05	0.91	1.00	0.90	0.96	6.36
22'44'66'-HxCB	155	0.98	0.99	1.03	0.98	1.01	0.94	0.99	3.14
23'44'55'-HxCB	167	1.05	1.03	1.04	0.98	1.01	0.94	1.01	4.28
233'44'5-HxCB	156	1.02	1.01	1.02	1.02	1.06	0.92	1.01	4.57
33'44'55'-HxCB	169	1.05	0.91	1.05	0.94	1.01	0.98	0.99	5.77
22'34'566'-HpCB	188	1.07	0.97	0.99	0.99	1.01	0.92	0.99	4.96
233'44'55'-HpCB	189	0.88	0.86	0.94	0.81	0.86	0.82	0.86	5.31
22'33'55'66'-OcCB	202	0.92	0.84	0.91	0.84	0.84	0.84	0.86	4.49
233'44'55'6-OcCB	205	0.94	0.89	0.92	0.85	0.90	0.83	0.89	4.84
22'33'4'55'66'-NoCB	208	0.89	0.83	0.94	0.88	0.88	0.87	0.88	4.06
22'33'44'55'6-NoCB	206	1.03	0.93	0.96	0.89	0.92	0.85	0.93	6.68
DeCB	209	0.93	0.90	0.94	0.85	0.89	0.84	0.89	4.71

(1) The %RSD for the 26 unlabeled standard must not exceed +/- 20%(PCB156/157 coeluted), see Section 10.4.4, Method 1668.

SP1668F3AU

FORM 3B
PCB INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 02/23/11

Instrument ID: AutoSpec-Ultima GC Column: SPB-Octyl

CS1 Data Filename: U139142 CS4 Data Filename: U139144

CS2 Data Filename: U139141 CS5 Data Filename: U139145

CS3 Data Filename: U139143 CS6 Data Filename: U139146

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (RSD) (1)
	CS1	CS2	CS3	CS4	CS5	CS6		
LABELED COMPOUNDS								
13C-2-MoCB	1.18	1.22	1.26	1.18	1.23	1.26	1.22	2.91
13C-4-MoCB	1.14	1.15	1.17	1.14	1.18	1.26	1.17	3.64
13C-22'-DiCB	0.78	0.80	0.81	0.81	0.82	0.80	0.80	1.70
13C-44'-DiCB	0.97	0.91	0.97	0.91	0.97	1.04	0.96	4.92
13C-22'6'-TrCB	0.62	0.61	0.63	0.66	0.67	0.62	0.64	3.84
13C-344'-TrCB	1.13	1.09	1.21	1.07	1.06	1.30	1.14	8.18
13C-22'66'-TeCB	1.07	1.14	1.16	1.15	1.17	1.16	1.14	3.11
13C-344'5-TeCB	0.91	0.89	0.99	0.87	0.92	1.11	0.95	9.33
13C-33'44'-TeCB	0.93	0.91	0.98	0.89	0.90	1.09	0.95	7.78
13C-22'466'-PeCB	1.34	1.43	1.41	1.39	1.40	1.40	1.40	2.11
13C-2'344'5-PeCB	0.99	0.99	1.07	0.95	1.02	1.16	1.03	7.28
13C-23'44'5-PeCB	1.01	1.02	1.14	0.98	1.06	1.25	1.08	9.36
13C-2344'5-PeCB	1.05	1.05	1.06	0.98	1.09	1.21	1.07	6.90
13C-233'44'-PeCB	0.99	0.99	1.03	0.91	0.97	1.18	1.01	9.13
13C-33'44'5-PeCB	0.86	0.86	0.92	0.86	0.86	1.03	0.90	7.57
13C-22'44'66'-HxCB	1.63	1.67	1.55	1.71	1.76	1.50	1.64	5.86
13C-23'44'55'-HxCB	0.88	0.85	0.83	0.91	0.93	0.90	0.88	4.21
13C-233'44'5'-HxCB	0.81	0.79	0.79	0.82	0.82	0.87	0.82	3.42
13C-33'44'55'-HxCB	0.75	0.72	0.65	0.76	0.70	0.71	0.72	5.69
13C-22'34'566'-HpCB	2.24	2.19	2.61	2.14	2.39	2.58	2.36	8.56
13C-233'44'55'-HpCB	1.28	1.24	1.30	1.27	1.29	1.46	1.31	6.12
13C-22'33'55'66'-OcCB	1.66	1.54	1.76	1.89	2.10	1.88	1.80	10.8
13C-233'44'55'6-OcCB	1.28	1.30	1.42	1.31	1.34	1.52	1.36	6.60
13C-22'33'4'55'66'-NoCB	1.29	1.31	1.37	1.27	1.40	1.38	1.34	4.14
13C-22'33'44'55'6-NoCB	0.95	0.94	0.99	0.97	1.00	1.15	1.00	7.54
13C-DeCB	1.49	1.46	1.54	1.59	1.63	1.67	1.56	5.35
CLEANUP STANDARDS								
13C-244'-TrCB	1.38	1.38	1.41	1.32	1.34	1.49	1.39	4.31
13C-233'55'-PeCB	1.23	1.26	1.24	1.20	1.24	1.26	1.24	1.71
13C-22'33'55'6-HpCB	0.98	1.01	0.87	0.99	1.02	0.85	0.95	7.96

(1) The %RSD for the 29 labeled reference compounds must be within the limits (PCB156/157 coeluted), see Section 10.5, Method 1668.

SP1668F3BU

FORM 3C
PCB INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 02/23/11

Instrument ID: Autospec Ultima GC Column: SPB-Octyl

CS1 Data Filename: U139142 CS4 Data Filename: U139144

CS2 Data Filename: U139141 CS5 Data Filename: U139145

CS3 Data Filename: U139143 CS6 Data Filename: U139146

NATIVE ANALYTES	IUPAC	M/Z'S FORMING RATIO(1)	ION ABUNDANCE RATIO CS1	CS2	CS3	CS4	CS5	CS6	QC LIMITS (2)
2-MoCB	1	M/M+2	2.92	3.01	3.11	3.11	3.14	3.14	2.66-3.60
4-MoCB	3		3.29	3.28	3.14	3.15	3.14	3.15	
22'-DiCB	4	M/M+2	1.35	1.44	1.55	1.56	1.54	1.55	1.33-1.79
44'-DiCB	15		1.55	1.58	1.61	1.58	1.57	1.58	
22'6'-TrCB	19	M/M+2	0.99	1.02	1.02	1.02	1.02	1.02	0.88-1.20
344'-TrCB	37		1.08	1.05	1.06	1.05	1.06	1.05	
22'66'-TeCB	54	M/M+2	0.82	0.75	0.77	0.77	0.77	0.77	0.65-0.89
344'5-TeCB	81		0.81	0.76	0.76	0.77	0.78	0.79	
33'44'-TeCB	77		0.72	0.76	0.75	0.77	0.77	0.79	
22'466'-PeCB	104	M+2/M+4	1.76	1.66	1.59	1.59	1.60	1.60	1.32-1.78
2'344'5-PeCB	123		1.50	1.61	1.54	1.61	1.56	1.57	
23'44'5-PeCB	118		1.78	1.55	1.60	1.66	1.58	1.57	
2344'5-PeCB	114		1.75	1.60	1.57	1.60	1.56	1.58	
233'44'-PeCB	105		1.78	1.60	1.55	1.60	1.58	1.57	
33'44'5-PeCB	126		1.65	1.67	1.64	1.63	1.56	1.58	
22'44'66'-HxCB	155	M+2/M+4	1.33	1.30	1.25	1.28	1.27	1.27	1.05-1.43
23'44'55'-HxCB	167		1.20	1.26	1.23	1.23	1.25	1.25	
233'44'5-HxCB	156		1.18	1.17	1.25	1.21	1.24	1.26	
33'44'55'-HxCB	169		1.22	1.17	1.27	1.23	1.24	1.25	
22'34'566'-HpCB	188	M+2/M+4	1.02	1.11	1.03	1.01	1.03	1.04	0.89-1.21
233'44'55'-HpCB	189		0.90	1.05	1.03	1.00	1.03	1.01	
22'33'55'66'-OcCB	202	M+2/M+4	0.81	0.92	0.89	0.87	0.88	0.89	0.76-1.02
233'44'55'6-OcCB	205		0.79	0.88	0.88	0.90	0.89	0.88	
22'33'4'55'66'-NoCB	208	M+2/M+4	0.70	0.74	0.79	0.77	0.78	0.78	0.65-0.89
22'33'44'55'6-NoCB	206		0.86	0.73	0.77	0.77	0.78	0.77	
DeCB	209	M+4/M+6	1.11	1.26	1.17	1.19	1.17	1.17	0.99-1.33

(1) See Table 7, Method 1668, for m/z specifications.

(2) Ion Abundance Ratio Control Limits from Table 8, Method 1668.

SP1668f3cu

FORM 3D
PCB INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Columbia Analytical Services Episode No.:

Contract No.: SDG No.:

Initial Calibration Date: 02/23/11

Instrument ID: Autospec Ultima GC Column: SPB-Octyl

CS1 Data Filename: U139142 CS4 Data Filename: U139144

CS2 Data Filename: U139141 CS5 Data Filename: U139145

CS3 Data Filename: U139143 CS6 Data Filename: U139146

LABELED COMPOUNDS	M/Z'S FORMING RATIO(1)	ION ABUNDANCE RATIO CS1	CS2	CS3	CS4	CS5	CS6	QC LIMITS (2)
13C-2-MoCB	M/M+2	3.05	3.19	3.07	3.34	3.13	3.13	2.66-3.60
13C-4-MoCB		3.08	3.17	3.16	2.96	3.17	3.07	
13C-22'-DiCB	M/M+2	1.59	1.59	1.59	1.55	1.63	1.54	1.33-1.79
13C-44'-DiCB		1.56	1.56	1.56	1.45	1.61	1.49	
13C-22'6'-TrCB	M/M+2	1.04	1.06	1.05	1.05	1.04	0.97	0.88-1.20
13C-344'-TrCB		1.06	1.06	1.07	1.15	1.02	1.12	
13C-22'66'-TeCB	M/M+2	0.80	0.79	0.80	0.81	0.80	0.86	0.65-0.89
13C-344'5-TeCB		0.79	0.78	0.79	0.77	0.76	0.82	
13C-33'44'-TeCB		0.79	0.79	0.80	0.72	0.73	0.81	
13C-22'466'-PeCB	M+2/M+4	1.57	1.55	1.55	1.59	1.55	1.57	1.32-1.78
13C-2'344'5-PeCB		1.53	1.59	1.58	1.70	1.59	1.48	
13C-23'44'5-PeCB		1.54	1.65	1.58	1.57	1.58	1.56	
13C-2344'5-PeCB		1.55	1.60	1.58	1.66	1.59	1.55	
13C-233'44'-PeCB		1.52	1.61	1.58	1.62	1.62	1.50	
13C-33'44'5-PeCB		1.54	1.59	1.57	1.67	1.60	1.62	
13C-22'44'66'-HxCB	M+2/M+4	1.26	1.27	1.25	1.27	1.27	1.26	1.05-1.43
13C-23'44'55'-HxCB		1.27	1.32	1.28	1.30	1.29	1.22	
13C-233'44'5'-HxCB		1.26	1.28	1.26	1.28	1.29	1.26	
13C-33'44'55'-HxCB		1.26	1.28	1.28	1.25	1.26	1.26	
13C-22'34'566'-HpCB	M+2/M+4	1.07	1.08	1.06	1.06	1.05	1.07	0.89-1.21
13C-233'44'55'-HpCB		1.03	1.05	1.04	1.02	1.06	1.08	
13C-22'33'55'66'-OcCB	M+2/M+4	0.90	0.90	0.91	0.87	0.88	0.93	0.76-1.02
13C-233'44'55'6-OcCB		0.91	0.90	0.88	0.92	0.91	0.90	
13C-22'33'4'55'66'-NoCB	M+2/M+4	0.79	0.80	0.80	0.79	0.79	0.80	0.65-0.89
13C-22'33'44'55'6-NoCB		0.80	0.80	0.77	0.78	0.80	0.83	
13C-DeCB	M+4/M+6	1.18	1.18	1.17	1.15	1.20	1.22	0.99-1.33
13C-244'-TrCB		1.05	1.04	1.06	1.04	1.07	0.95	
13C-233'55'-PeCB		1.57	1.58	1.56	1.57	1.56	1.58	
13C-22'33'55'6-HpCB		1.07	1.10	1.07	1.02	1.07	1.13	

(1) See Table 7, Method 1668, for m/z specifications.

(2) Ion Abundance Ratio Control Limits from Table 8, Method 1668.

SP1668F3DU

Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL CS1

Run #1 Filename U139142 #1 Samp: 1 Inj: 1 Acquired: 23-FEB-11 13:25:54
Processed: 24-FEB-11 17:57:04 LAB. ID: ICAL CS1

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?	RRT
1	1	2-MoCB	13:03	6.081e+02	2.081e+02	2.92	yes	no	1.001
2	3	4-MoCB	15:14	5.386e+02	1.639e+02	3.29	yes	yes	1.001
3	4	22'-DiCB	15:27	3.282e+02	2.423e+02	1.35	yes	yes	1.001
4	15	44'-DiCB	21:23	3.217e+02	2.072e+02	1.55	yes	yes	1.002
5	19	22'6'-TrCB	18:33	1.886e+02	1.905e+02	0.99	yes	yes	1.001
6	37	344'-TrCB	28:23	2.972e+02	2.750e+02	1.08	yes	yes	1.001
7	54	22'66'-TeCB	21:38	2.334e+02	2.862e+02	0.82	yes	yes	1.002
8	81	344'5-TeCB	35:05	2.029e+02	2.509e+02	0.81	yes	yes	1.000
9	77	33'44'-TeCB	35:40	1.756e+02	2.443e+02	0.72	yes	yes	1.000
10	104	22'466'-PeCB	27:04	3.241e+02	1.841e+02	1.76	yes	no	1.001
11	123	2'344'5-PeCB	37:36	2.319e+02	1.545e+02	1.50	yes	yes	1.000
12	118	23'44'5-PeCB	37:56	2.454e+02	1.382e+02	1.78	yes	yes	1.001
13	114	2344'5-PeCB	38:28	2.490e+02	1.423e+02	1.75	yes	yes	1.000
14	105	233'44'-PeCB	39:08	2.435e+02	1.366e+02	1.78	yes	yes	1.000
15	126	33'44'5-PeCB	42:13	1.919e+02	1.163e+02	1.65	yes	yes	1.000
16	155	22'44'66'-HxCB	32:42	2.773e+02	2.086e+02	1.33	yes	no	1.001
17	167	23'44'55'-HxCB	44:02	1.529e+02	1.276e+02	1.20	yes	no	1.001
18	156/7	233'44'5-HxCB	45:11	2.721e+02	2.301e+02	1.18	yes	no	1.000
19	169	33'44'55'-HxCB	48:27	1.317e+02	1.077e+02	1.22	yes	no	1.001
20	188	22'34'566'-HpCB	38:24	2.382e+02	2.347e+02	1.02	yes	no	1.000
21	189	233'44'55'-HpCB	50:55	1.065e+02	1.187e+02	0.90	yes	no	1.000
22	202	22'33'55'66'-OcCB	43:47	1.347e+02	1.673e+02	0.81	yes	no	1.001
23	205	233'44'55'6-OcCB	53:27	1.056e+02	1.329e+02	0.79	yes	no	1.000
24	208	22'33'4'55'66'-NoCB	50:25	9.333e+01	1.331e+02	0.70	yes	no	1.000
25	206	22'33'44'55'6-NoCB	55:11	8.954e+01	1.039e+02	0.86	yes	yes	1.000
26	209	DeCB	56:46	1.448e+02	1.300e+02	1.11	yes	no	1.001
27	1L	13C-2-MoCB	13:02	5.399e+04	1.772e+04	3.05	yes	no	0.749
28	3L	13C-4-MoCB	15:13	5.262e+04	1.707e+04	3.08	yes	no	0.875
29	4L	13C-22'-DiCB	15:26	2.927e+04	1.838e+04	1.59	yes	no	0.887
30	15L	13C-44'-DiCB	21:21	3.596e+04	2.303e+04	1.56	yes	no	1.227
31	19L	13C-22'6'-TrCB	18:32	1.922e+04	1.854e+04	1.04	yes	no	1.065
32	37L	13C-344'-TrCB	28:21	2.620e+04	2.482e+04	1.06	yes	no	1.085
33	54L	13C-22'66'-TeCB	21:36	2.143e+04	2.695e+04	0.80	yes	no	0.827
34	81L	13C-344'5-TeCB	35:04	1.814e+04	2.308e+04	0.79	yes	no	1.342
35	77L	13C-33'44'-TeCB	35:39	1.842e+04	2.342e+04	0.79	yes	no	1.364
36	104L	13C-22'466'-PeCB	27:03	2.997e+04	1.904e+04	1.57	yes	no	0.821
37	123L	13C-2'344'5-PeCB	37:35	2.175e+04	1.418e+04	1.53	yes	no	1.141
38	118L	13C-23'44'5-PeCB	37:54	2.241e+04	1.458e+04	1.54	yes	no	1.150
39	114L	13C-2344'5-PeCB	38:27	2.322e+04	1.502e+04	1.55	yes	no	1.167
40	105L	13C-233'44'-PeCB	39:07	2.184e+04	1.436e+04	1.52	yes	no	1.187
41	126L	13C-33'44'5-PeCB	42:12	1.901e+04	1.235e+04	1.54	yes	no	1.281
42	155L	13C-22'44'66'-HxCB	32:41	2.763e+04	2.201e+04	1.26	yes	no	0.797
43	167L	13C-23'44'55'-HxCB	44:00	1.489e+04	1.174e+04	1.27	yes	no	1.073
44	156/7	13C-233'44'5'-HxCB	45:11	2.753e+04	2.187e+04	1.26	yes	no	1.102
45	169L	13C-33'44'55'-HxCB	48:25	1.271e+04	1.012e+04	1.26	yes	no	1.181
46	188L	13C-22'34'566'-HpCB	38:23	2.289e+04	2.147e+04	1.07	yes	no	0.725
47	189L	13C-233'44'55'-HpCB	50:54	1.293e+04	1.252e+04	1.03	yes	no	0.961
48	202L	13C-22'33'55'66'-OcCB	43:45	1.564e+04	1.729e+04	0.90	yes	no	0.826
49	205L	13C-233'44'55'6-OcCB	53:27	1.210e+04	1.333e+04	0.91	yes	no	1.009
50	208L	13C-22'33'4'55'66'-NoCB	50:24	1.132e+04	1.425e+04	0.79	yes	no	0.952
51	206L	13C-22'33'44'55'6-NoCB	55:10	8.367e+03	1.045e+04	0.80	yes	no	1.042
52	209L	13C-DeCB	56:44	1.595e+04	1.349e+04	1.18	yes	no	1.071

53	28L	13C-244'-TrCB	24:19	3.206e+04	3.044e+04	1.05	yes	no	0.930
54	111L	13C-233'55'-PeCB	35:37	2.748e+04	1.754e+04	1.57	yes	no	1.081
55	178L	13C-22'33'55'6-HpCB	41:26	1.542e+04	1.437e+04	1.07	yes	no	1.011
56	9L	13C-2,5-DiCB	17:24	3.720e+04	2.371e+04	1.57	yes	no	*
57	52L	13C-22'55'-TeCB	26:08	1.976e+04	2.544e+04	0.78	yes	no	*
58	101L	13C-22'4'55'-PeCB	32:57	2.223e+04	1.422e+04	1.56	yes	no	*
59	138L	13C-22'3'44'5'-HxCB	41:00	1.687e+04	1.355e+04	1.25	yes	no	*
60	194L	13C-22'33'44'55'-OcCB	52:57	9.395e+03	1.043e+04	0.90	yes	no	*

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL CS1

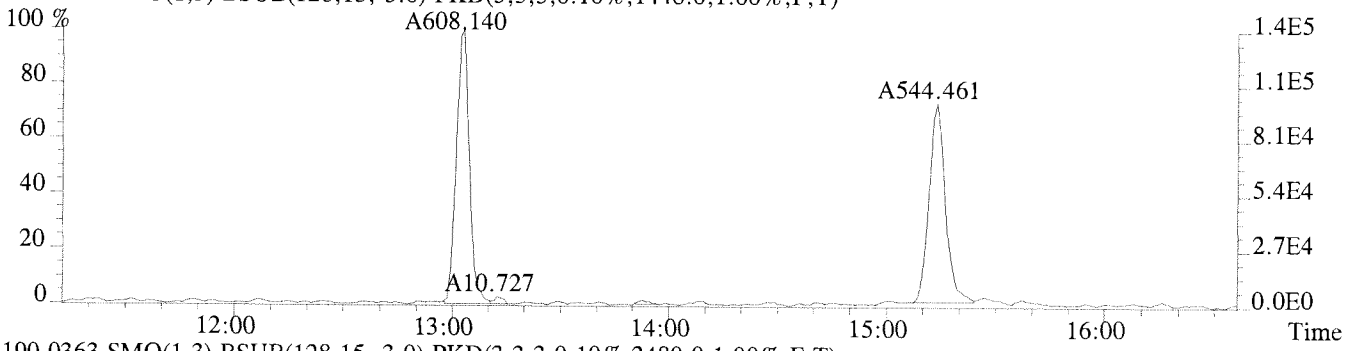
Run #1 Filename U139142 Samp: 1 Inj: 1 Acquired: 23-FEB-11 13:25:54
Processed: 24-FEB-11 17:57:041 LAB. ID: ICAL CS1

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	1.35e+05	1.45e+03	9.3e+01	4.47e+04	2.48e+03	1.8e+01
2	4-MoCB	9.78e+04	1.45e+03	6.8e+01	3.17e+04	2.48e+03	1.3e+01
3	22'-DiCB	6.38e+04	3.40e+03	1.9e+01	4.13e+04	7.20e+03	5.7e+00
4	44'-DiCB	4.68e+04	3.00e+03	1.6e+01	3.00e+04	7.80e+03	3.8e+00
5	22'6'-TrCB	3.66e+04	1.39e+03	2.6e+01	3.36e+04	1.07e+03	3.1e+01
[illegible]	344'-TrCB	3.35e+04	1.18e+03	2.8e+01	3.33e+04	1.71e+03	1.9e+01
[illegible]	22'66'-TeCB	3.88e+04	7.00e+02	5.5e+01	4.72e+04	8.36e+02	5.6e+01
[illegible]	344'5-TeCB	3.11e+04	9.00e+02	3.5e+01	3.38e+04	1.04e+03	3.3e+01
[illegible]	33'44'-TeCB	2.55e+04	9.00e+02	2.8e+01	3.36e+04	1.04e+03	3.2e+01
10	22'466'-PeCB	5.61e+04	9.72e+02	5.8e+01	3.47e+04	9.48e+02	3.7e+01
11	2'344'5-PeCB	3.59e+04	1.60e+03	2.2e+01	2.52e+04	1.40e+03	1.8e+01
12	23'44'5-PeCB	3.89e+04	1.60e+03	2.4e+01	2.22e+04	1.40e+03	1.6e+01
[illegible]	2344'5-PeCB	4.08e+04	1.60e+03	2.5e+01	2.42e+04	1.40e+03	1.7e+01
14	233'44'-PeCB	4.25e+04	1.60e+03	2.7e+01	2.30e+04	1.40e+03	1.6e+01
15	33'44'5-PeCB	3.14e+04	1.60e+03	2.0e+01	1.77e+04	1.40e+03	1.3e+01
16	22'44'66'-HxCB	5.10e+04	7.96e+02	6.4e+01	3.85e+04	1.00e+03	3.8e+01
17	23'44'55'-HxCB	3.10e+04	6.96e+02	4.5e+01	2.94e+04	5.56e+02	5.3e+01
18	233'44'5-HxCB	3.59e+04	6.96e+02	5.2e+01	3.51e+04	5.56e+02	6.3e+01
19	33'44'55'-HxCB	2.51e+04	6.96e+02	3.6e+01	2.37e+04	5.56e+02	4.3e+01
20	22'34'566'-HpCB	4.31e+04	8.60e+02	5.0e+01	4.42e+04	8.20e+02	5.4e+01
21	233'44'55'-HpCB	2.23e+04	7.28e+02	3.1e+01	2.51e+04	7.96e+02	3.2e+01
22	22'33'55'66'-OcCB	2.98e+04	7.72e+02	3.9e+01	3.63e+04	7.24e+02	5.0e+01
23	233'44'55'6-OcCB	2.20e+04	7.72e+02	2.8e+01	2.62e+04	7.24e+02	3.6e+01
[illegible]	22'33'4'55'66'-NoCB	2.08e+04	6.12e+02	3.4e+01	2.66e+04	5.20e+02	5.1e+01
[illegible]	22'33'44'55'6-NoCB	1.65e+04	8.88e+02	1.9e+01	2.07e+04	9.60e+02	2.2e+01
[illegible]	DeCB	2.87e+04	6.32e+02	4.5e+01	2.45e+04	5.84e+02	4.2e+01
[illegible]	13C-2-MoCB	1.28e+07	1.45e+03	8.8e+03	4.13e+06	2.96e+04	1.4e+02
28	13C-4-MoCB	9.29e+06	1.45e+03	6.4e+03	2.99e+06	2.96e+04	1.0e+02
29	13C-22'-DiCB	5.77e+06	4.08e+03	1.4e+03	3.61e+06	1.98e+03	1.8e+03
[illegible]	13C-44'-DiCB	5.33e+06	4.45e+03	1.2e+03	3.41e+06	2.19e+03	1.6e+03
[illegible]	13C-22'6'-TrCB	3.68e+06	2.10e+04	1.8e+02	3.56e+06	9.58e+03	3.7e+02
32	13C-344'-TrCB	3.55e+06	1.90e+04	1.9e+02	3.39e+06	9.22e+03	3.7e+02
33	13C-22'66'-TeCB	3.78e+06	1.63e+03	2.3e+03	4.77e+06	8.76e+02	5.4e+03
34	13C-344'5-TeCB	2.74e+06	1.67e+03	1.6e+03	3.49e+06	1.53e+03	2.3e+03
35	13C-33'44'-TeCB	2.66e+06	1.67e+03	1.6e+03	3.41e+06	1.53e+03	2.2e+03
36	13C-22'466'-PeCB	5.01e+06	1.33e+03	3.8e+03	3.17e+06	8.88e+02	3.6e+03
37	13C-2'344'5-PeCB	3.74e+06	2.39e+04	1.6e+02	2.42e+06	4.28e+03	5.6e+02
38	13C-23'44'5-PeCB	3.80e+06	2.39e+04	1.6e+02	2.42e+06	4.28e+03	5.6e+02
39	13C-2344'5-PeCB	3.89e+06	2.39e+04	1.6e+02	2.51e+06	4.28e+03	5.9e+02
40	13C-233'44'-PeCB	3.74e+06	2.39e+04	1.6e+02	2.47e+06	4.28e+03	5.8e+02
41	13C-33'44'5-PeCB	3.00e+06	2.39e+04	1.3e+02	1.90e+06	4.28e+03	4.4e+02
[illegible]	13C-22'44'66'-HxCB	4.93e+06	6.56e+02	7.5e+03	3.93e+06	6.08e+02	6.5e+03
[illegible]	13C-23'44'55'-HxCB	3.20e+06	9.64e+02	3.3e+03	2.52e+06	1.45e+03	1.7e+03
[illegible]	13C-233'44'5'-HxCB	4.01e+06	9.64e+02	4.2e+03	3.20e+06	1.45e+03	2.2e+03
[illegible]	13C-33'44'55'-HxCB	2.56e+06	9.64e+02	2.7e+03	2.04e+06	1.45e+03	1.4e+03
[illegible]	13C-22'34'566'-HpCB	4.12e+06	7.24e+02	5.7e+03	3.86e+06	1.15e+03	3.4e+03
47	13C-233'44'55'-HpCB	2.74e+06	1.10e+03	2.5e+03	2.64e+06	6.96e+02	3.8e+03
48	13C-22'33'55'66'-OcCB	3.44e+06	9.16e+02	3.8e+03	3.82e+06	9.04e+02	4.2e+03
[illegible]	13C-233'44'55'6-OcCB	2.56e+06	9.16e+02	2.8e+03	2.87e+06	9.04e+02	3.2e+03
[illegible]	13C-22'33'4'55'66'-NoCB	2.39e+06	7.96e+02	3.0e+03	3.04e+06	6.92e+02	4.4e+03
51	13C-22'33'44'55'6-NoCB	1.61e+06	8.56e+02	1.9e+03	2.03e+06	1.05e+03	1.9e+03
52	13C-DeCB	3.09e+06	6.56e+02	4.7e+03	2.61e+06	4.36e+02	6.0e+03

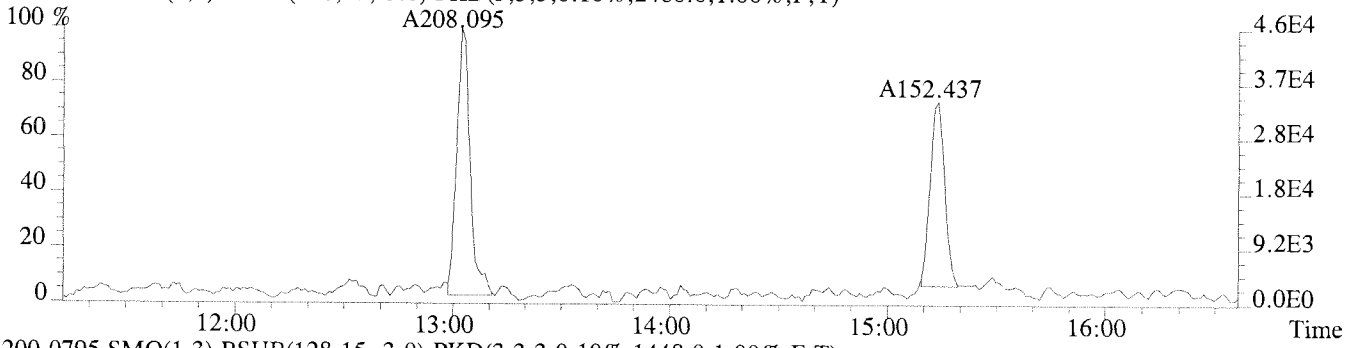
13C-244'-TrCB	4.75e+06	1.90e+04	2.5e+02	4.51e+06	9.22e+03	4.9e+02
13C-233'55'-PeCB	4.75e+06	2.98e+03	1.6e+03	3.03e+06	2.80e+03	1.1e+03
13C-22'33'55'6-HpCB	2.75e+06	7.24e+02	3.8e+03	2.57e+06	1.15e+03	2.2e+03
13C-2,5-DiCB	7.28e+06	4.45e+03	1.6e+03	4.65e+06	2.19e+03	2.1e+03
13C-22'55'-TeCB	3.19e+06	2.20e+03	1.4e+03	4.11e+06	1.34e+03	3.1e+03
13C-22'4'55'-PeCB	3.91e+06	2.98e+03	1.3e+03	2.49e+06	2.80e+03	8.9e+02
13C-22'3'44'5'-HxCB	2.98e+06	1.10e+03	2.7e+03	2.42e+06	1.17e+03	2.1e+03
13C-22'33'44'55'-OcCB	2.01e+06	9.16e+02	2.2e+03	2.23e+06	9.04e+02	2.5e+03

File:U139142 #1-347 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

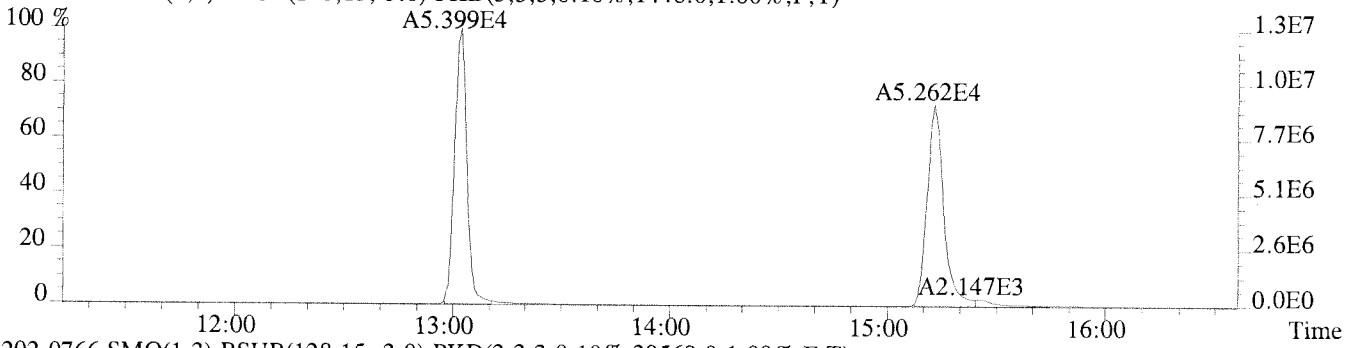
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)



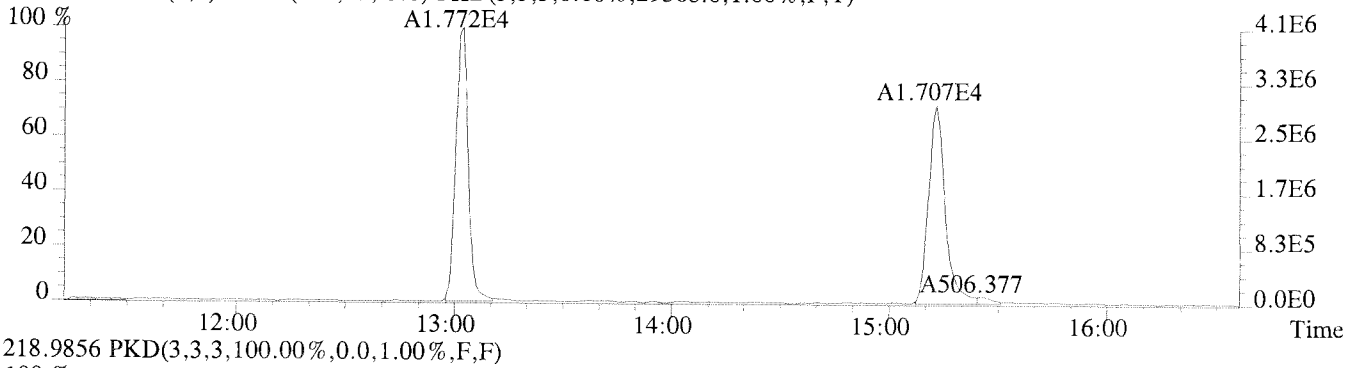
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2480.0,1.00%,F,T)



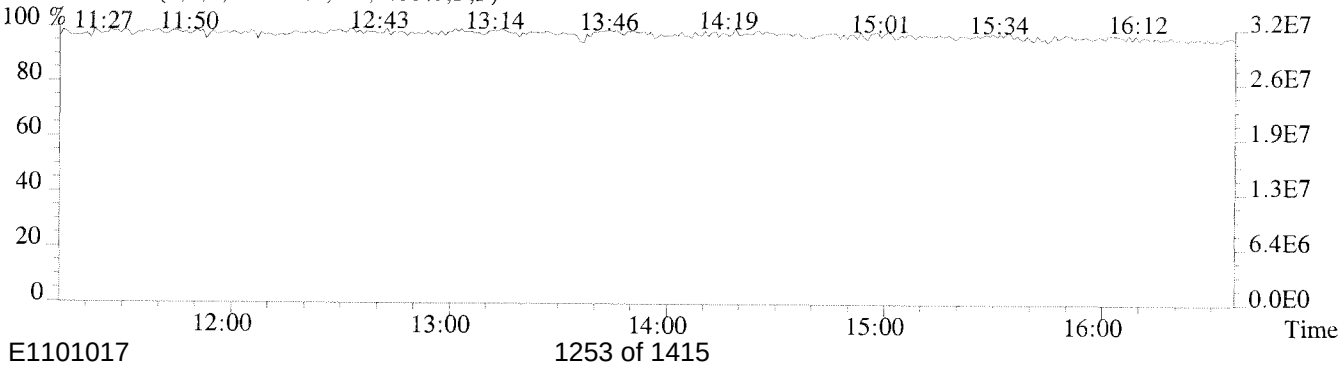
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)



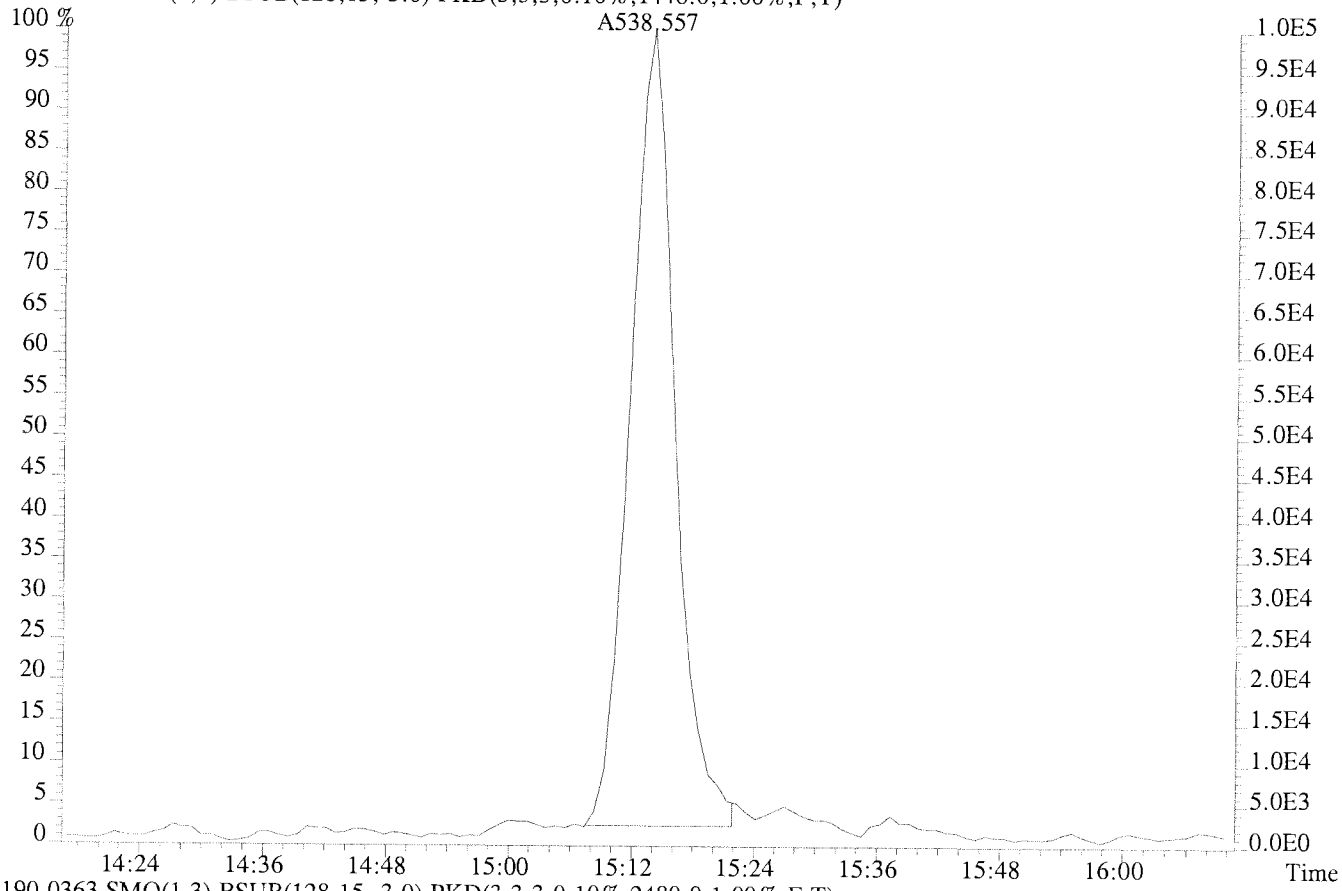
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,29568.0,1.00%,F,T)



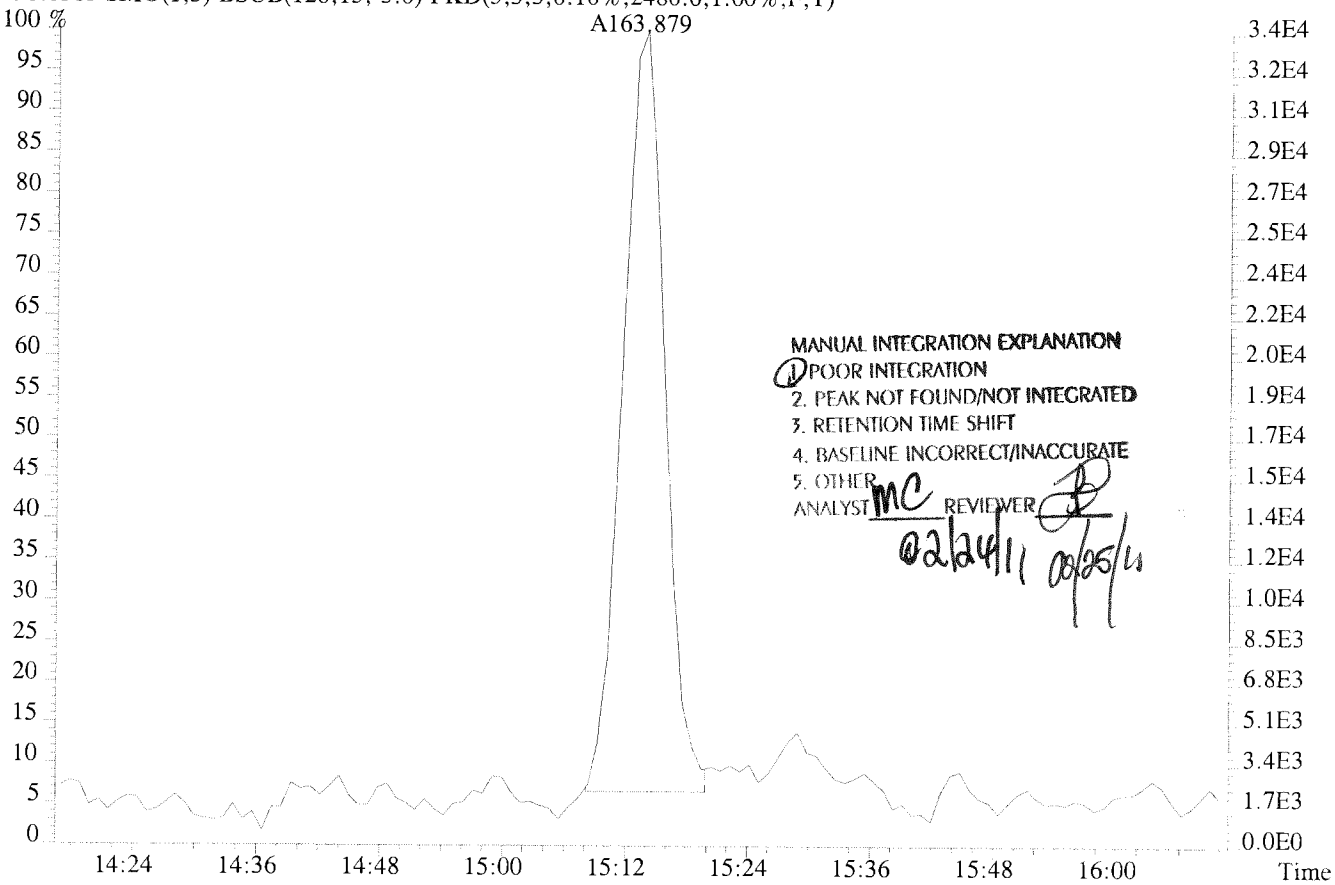
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139142 #1-347 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)



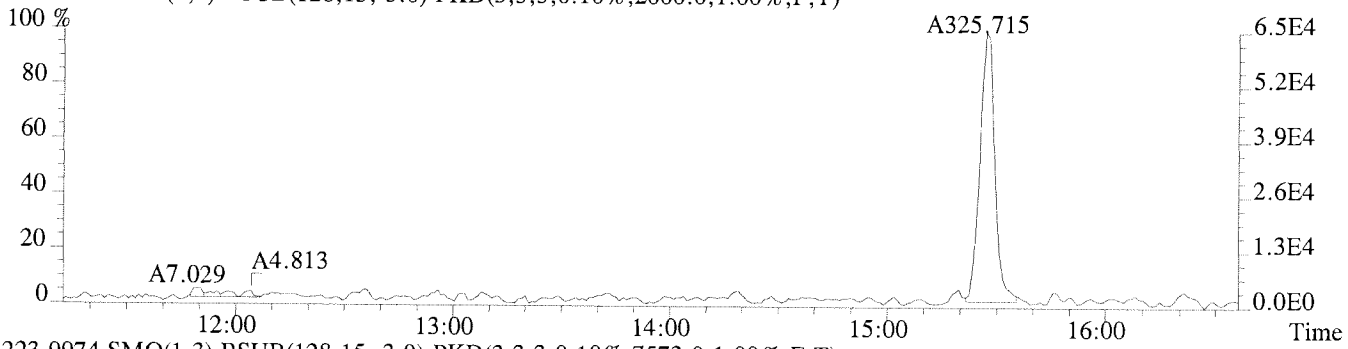
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2480.0,1.00%,F,T)



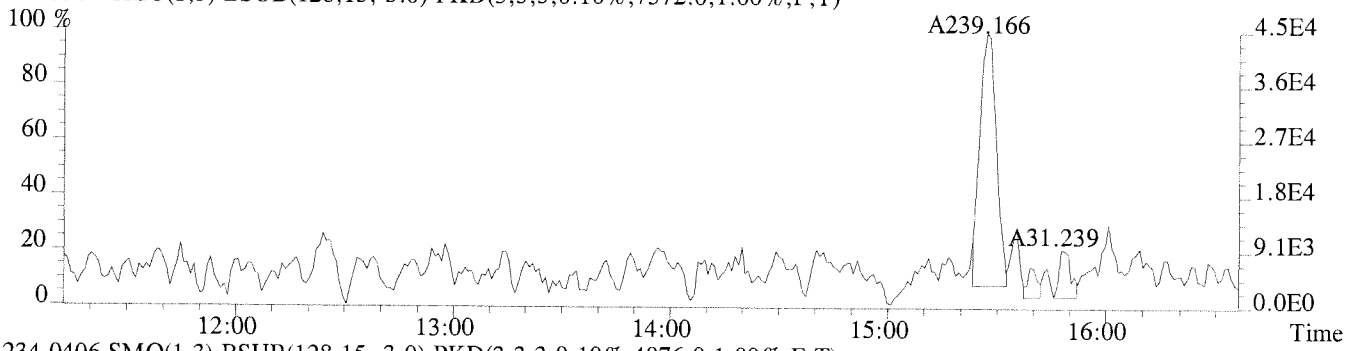
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/24/11 02/25/11

File:U139142 #1-347 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

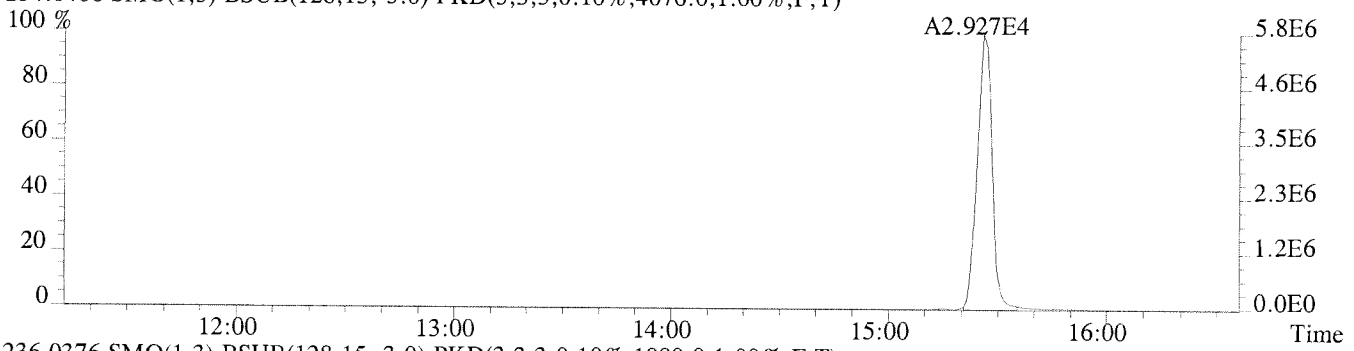
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2000.0,1.00%,F,T)



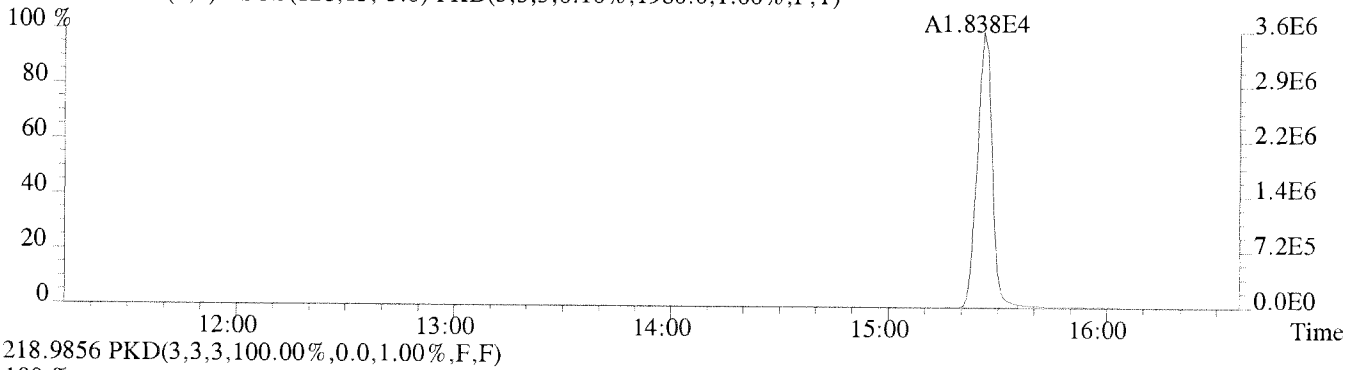
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7572.0,1.00%,F,T)



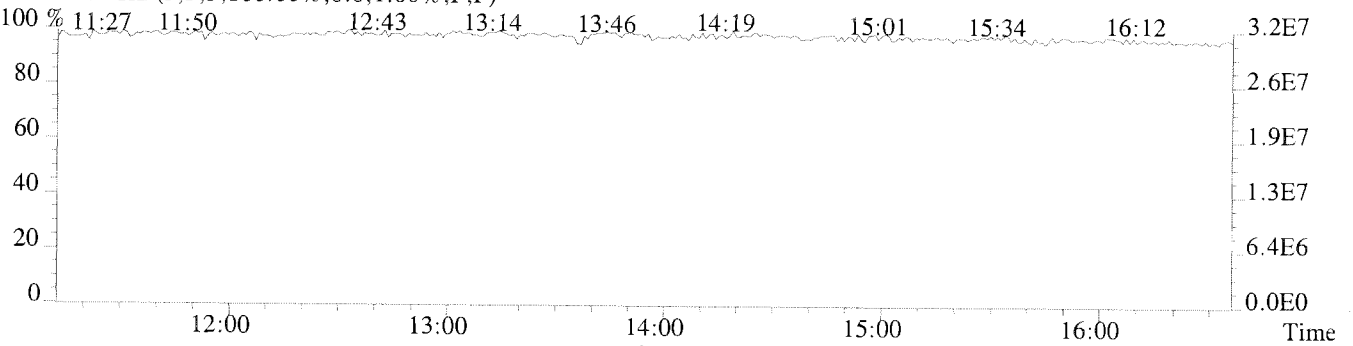
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4076.0,1.00%,F,T)



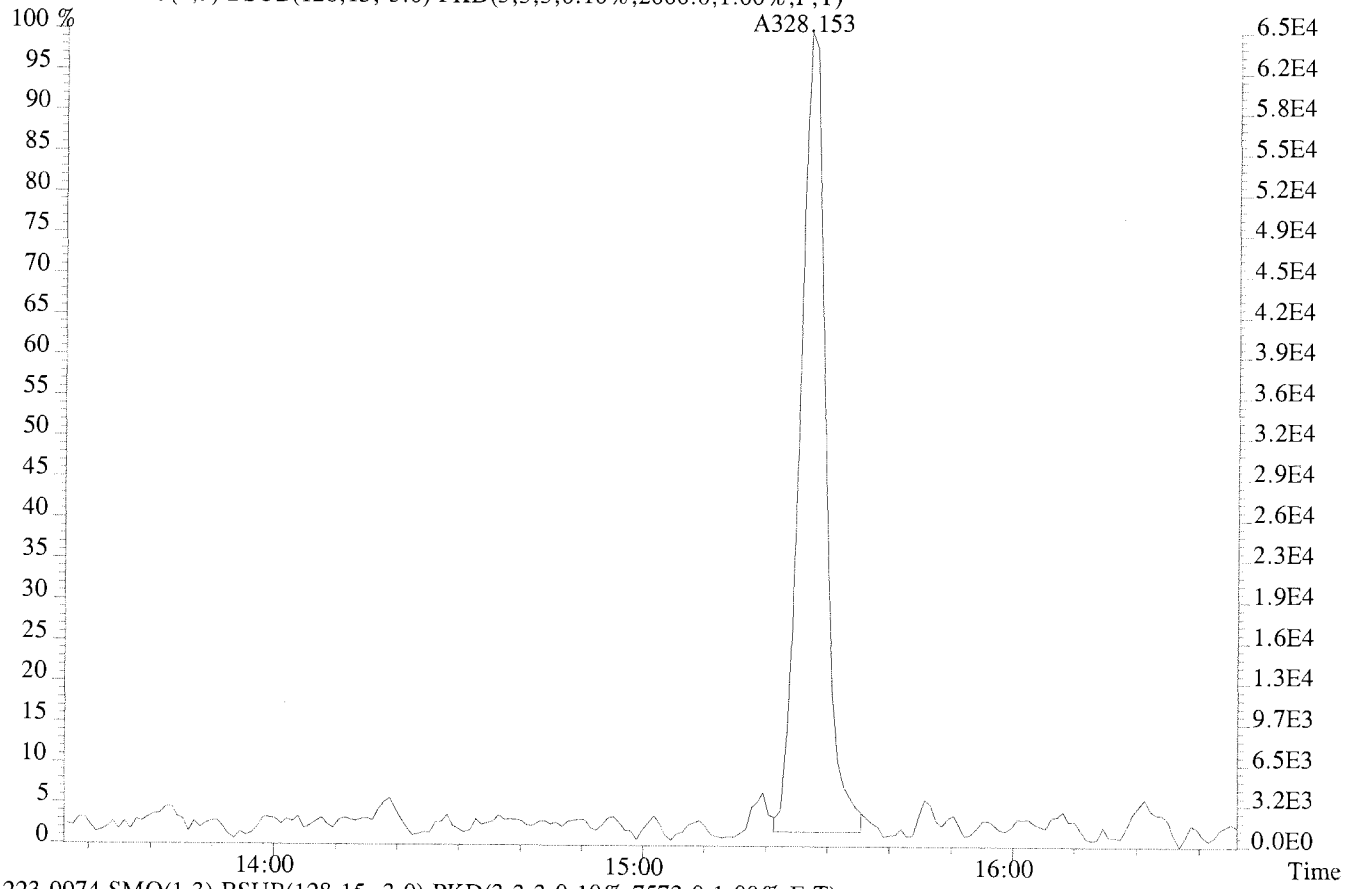
236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1980.0,1.00%,F,T)



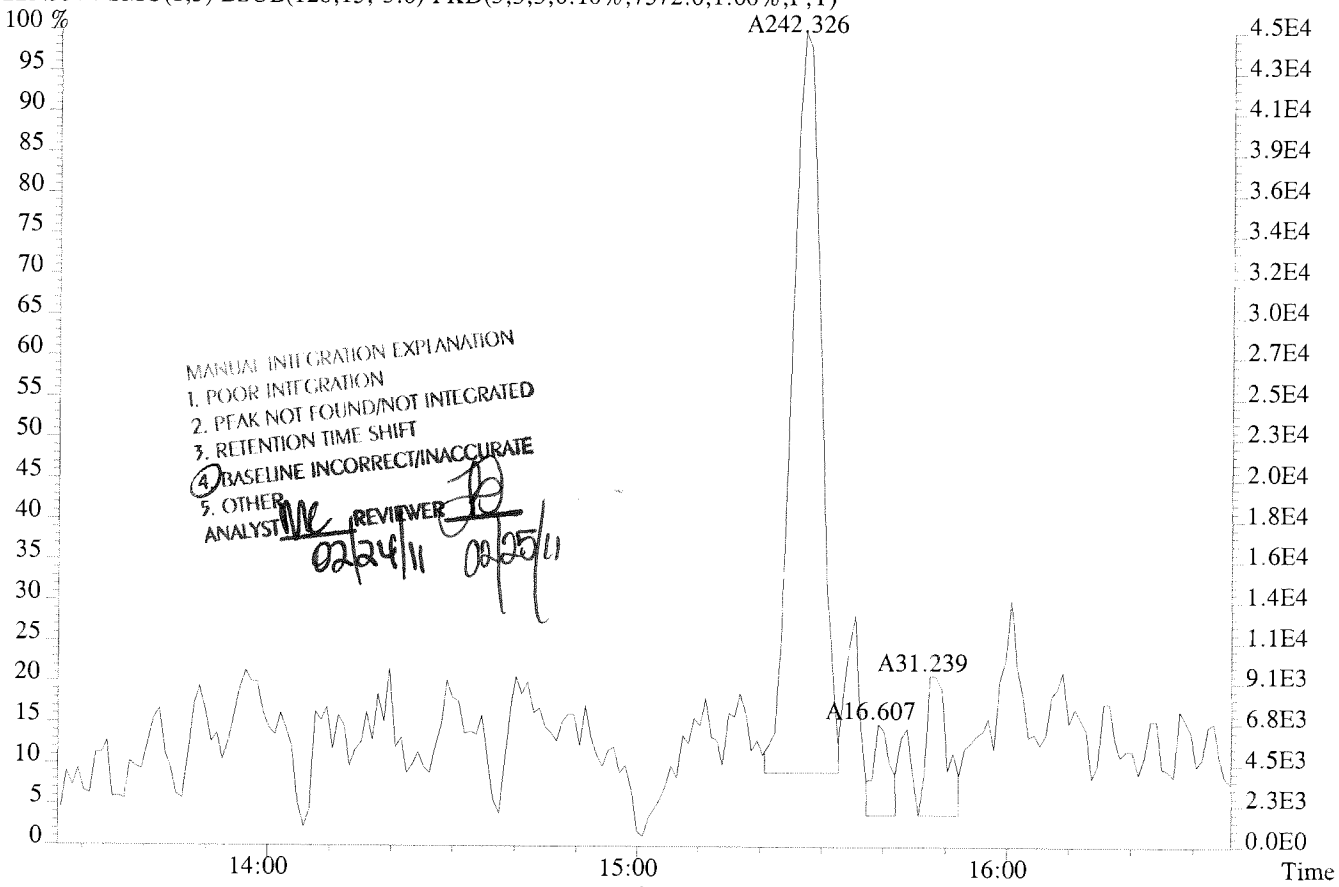
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139142 #1-347 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2000.0,1.00%,F,T)

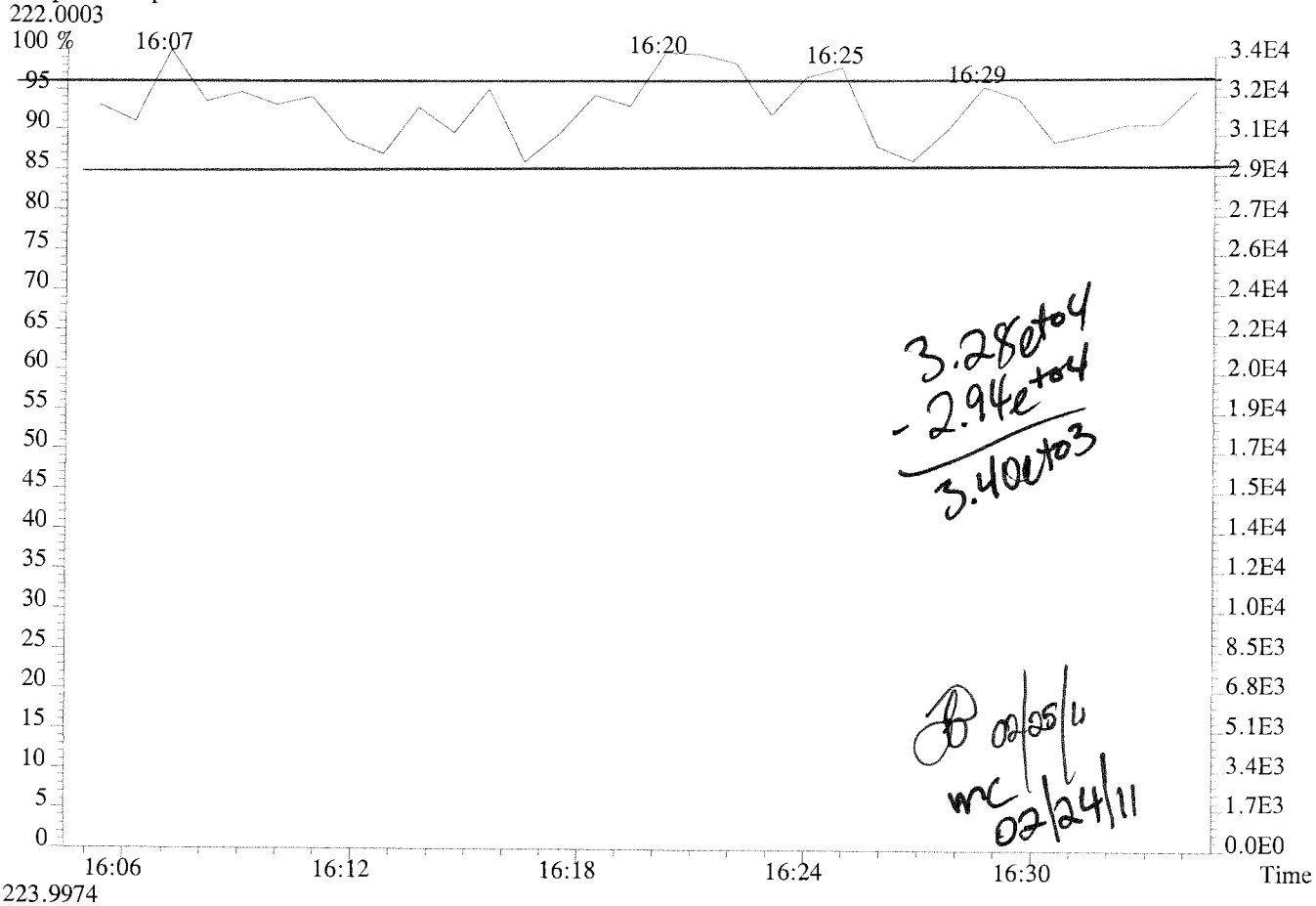


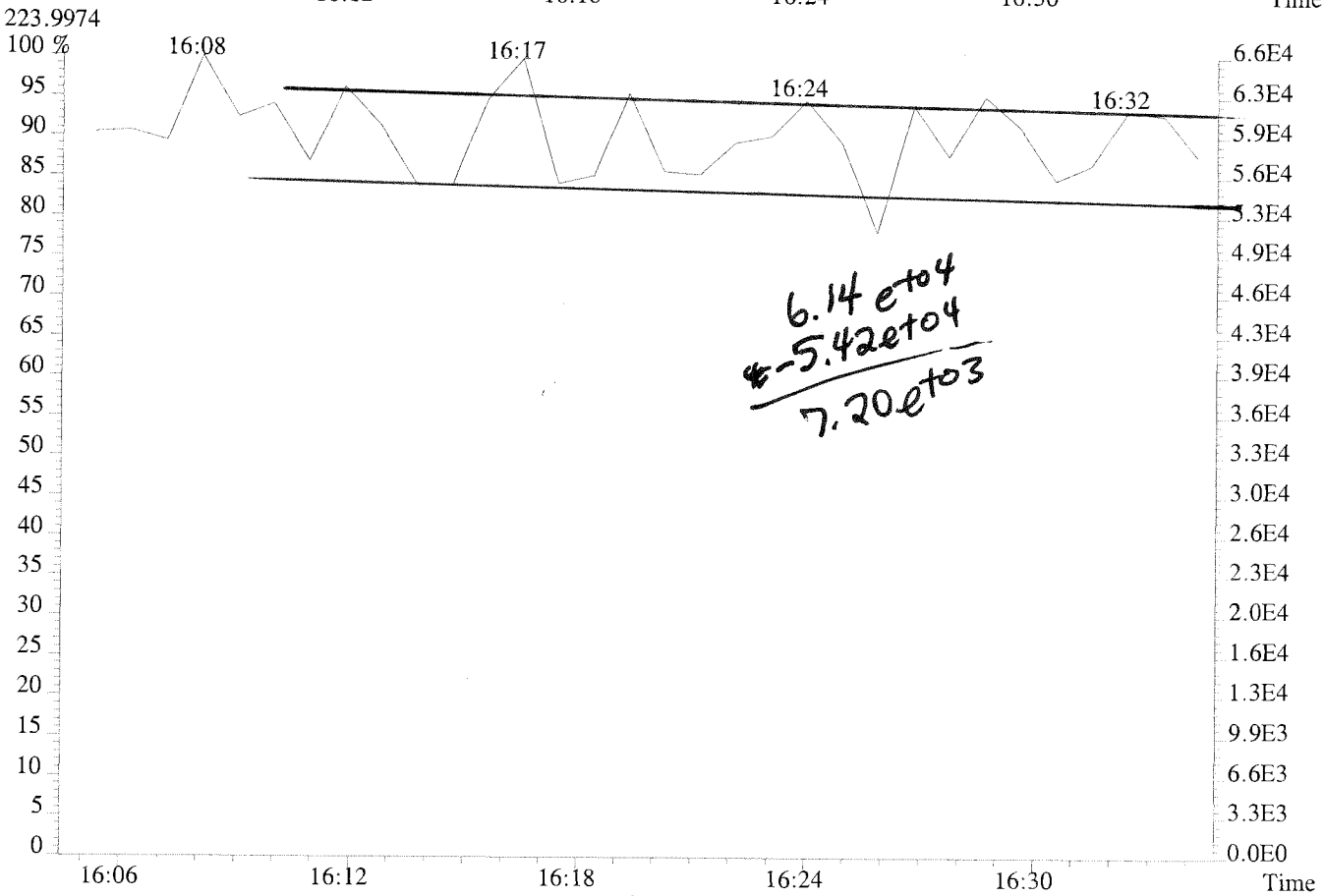
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7572.0,1.00%,F,T)



MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST 02/24/11 REVIEWER 02/25/11

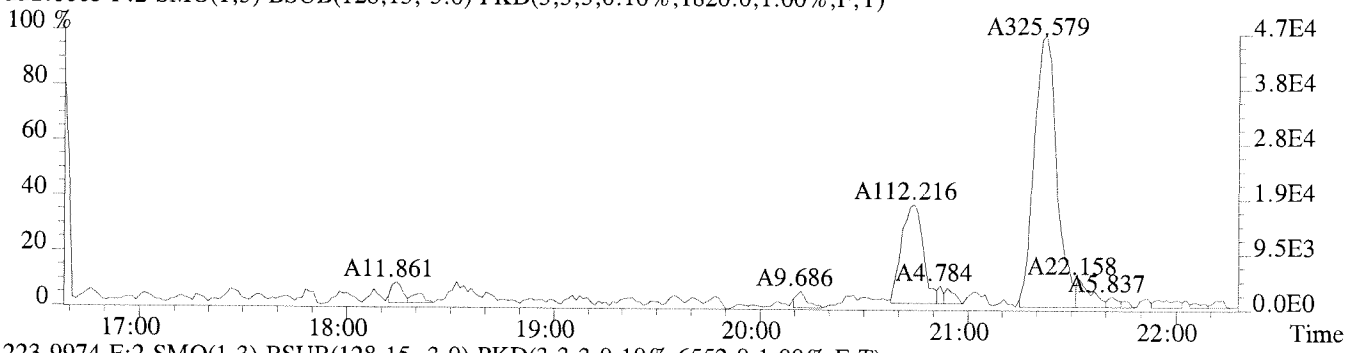
File:U139142 #1-347 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1



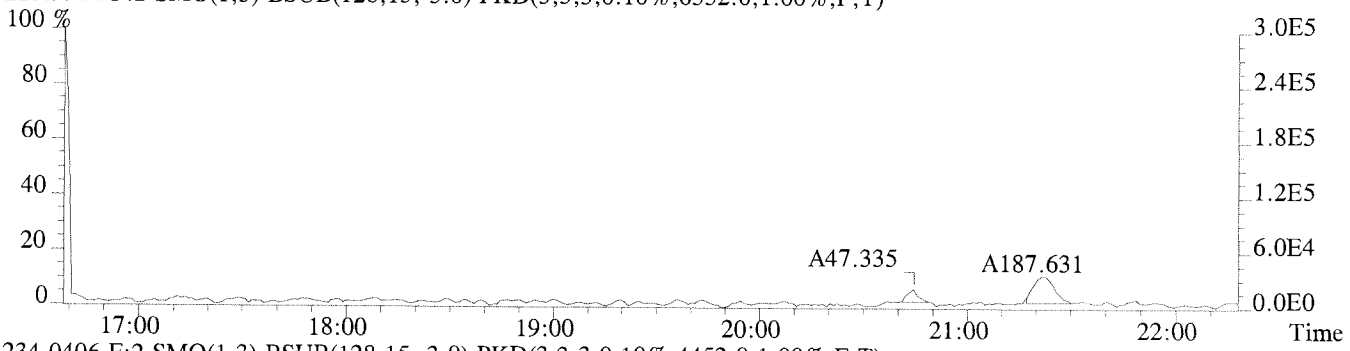


File:U139142 #1-313 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

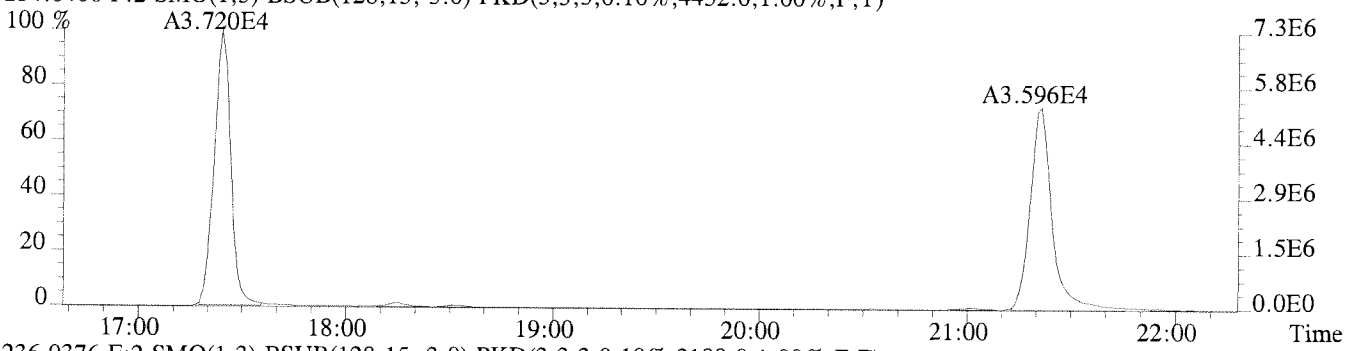
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1820.0,1.00%,F,T)



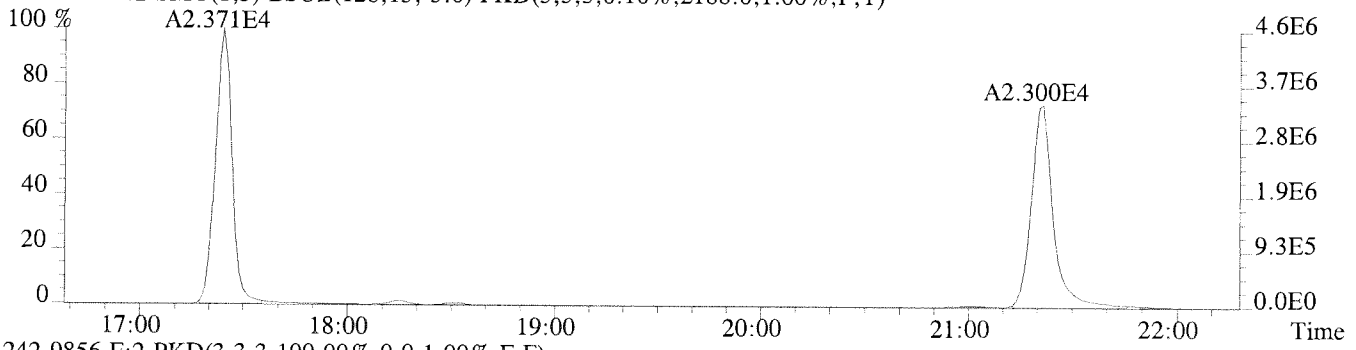
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6552.0,1.00%,F,T)



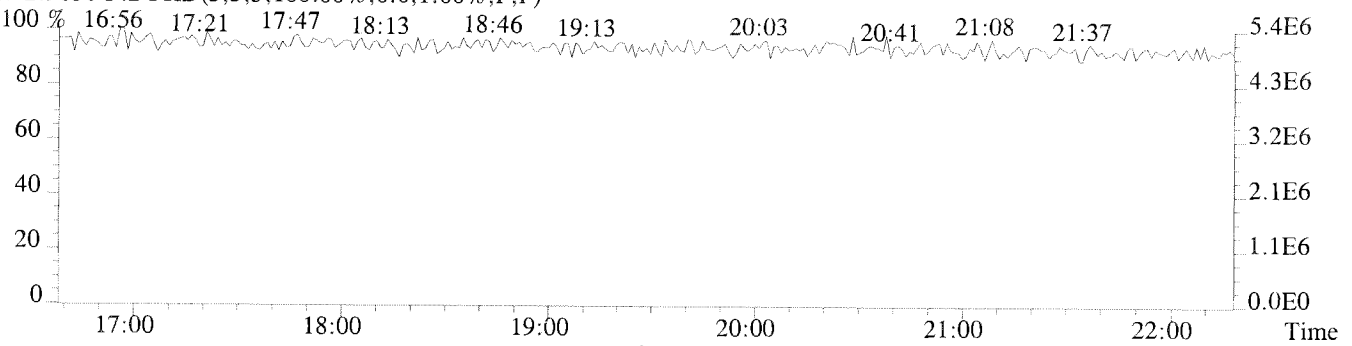
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4452.0,1.00%,F,T)



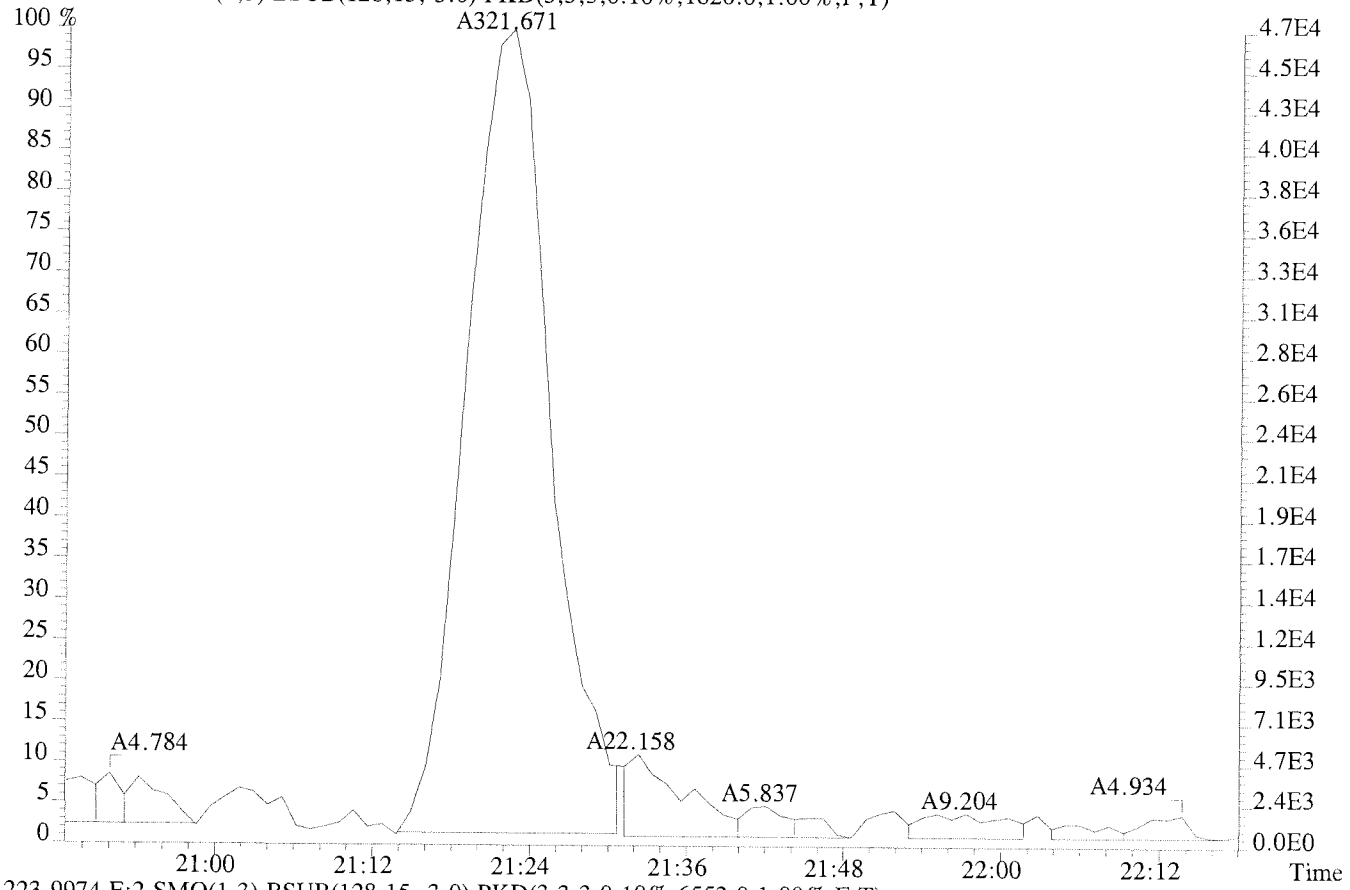
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2188.0,1.00%,F,T)



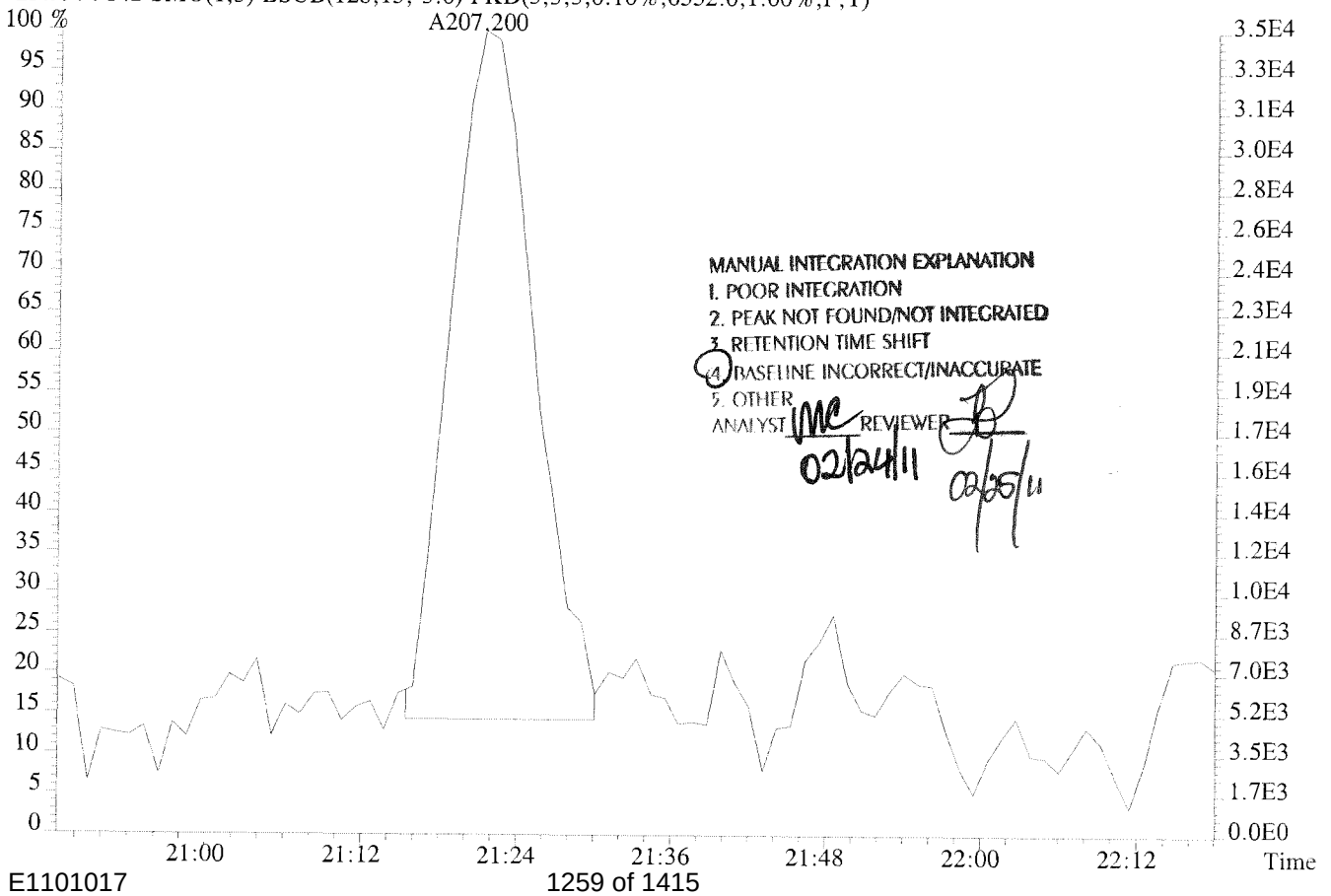
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139142 #1-313 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1820.0,1.00%,F,T)

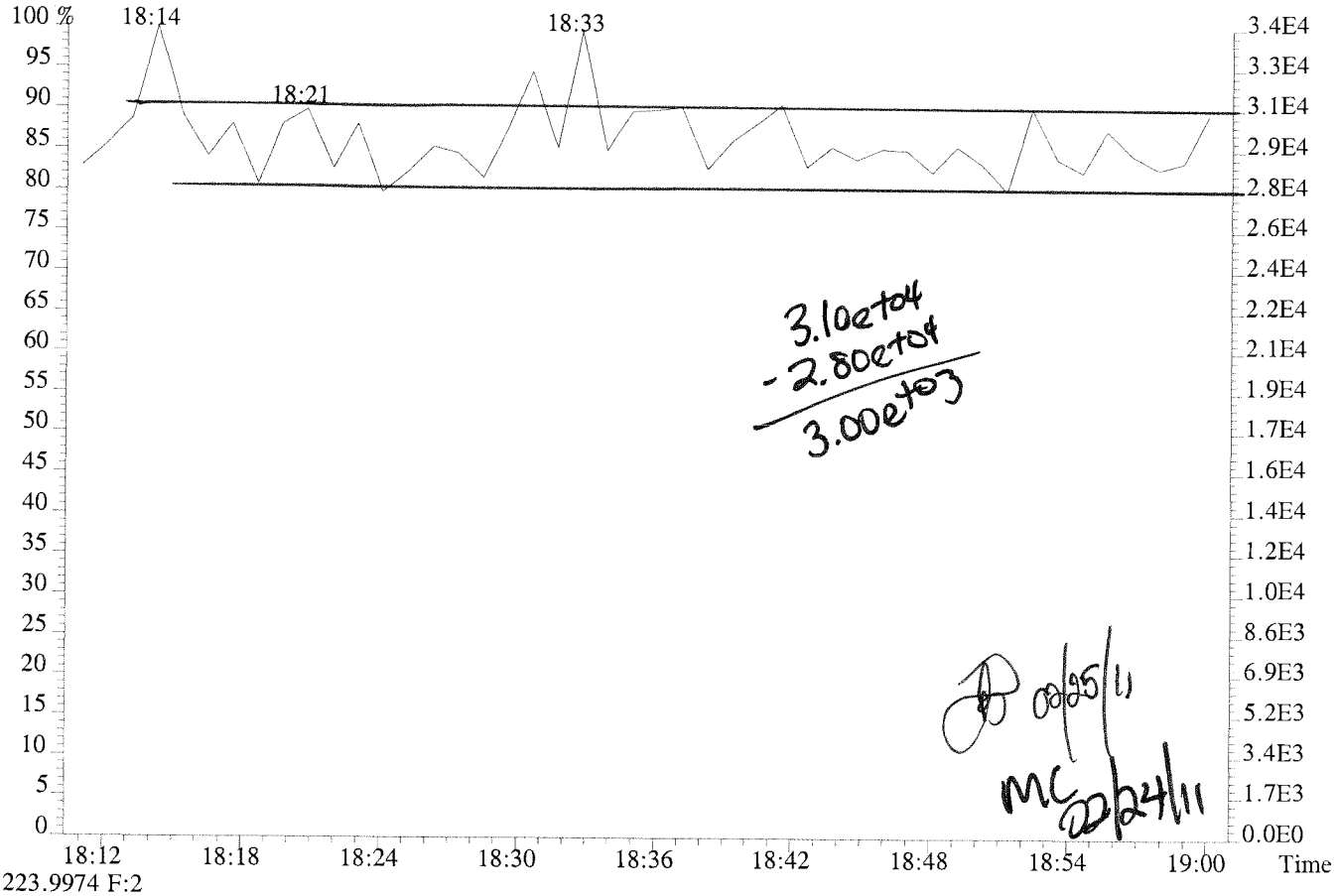


223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6552.0,1.00%,F,T)

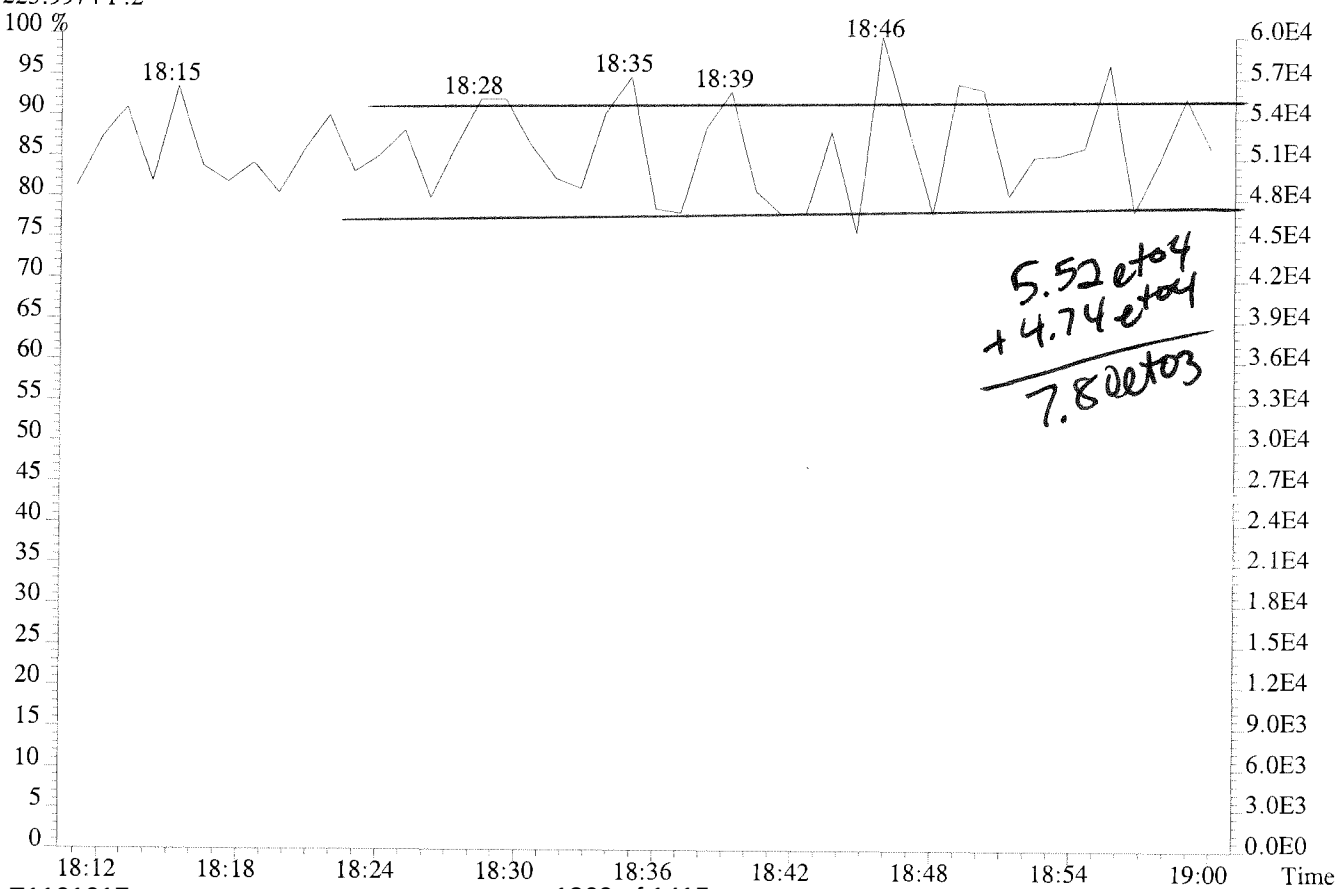


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/24/11 02/25/11

File:U139142 #1-313 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
222.0003 F:2

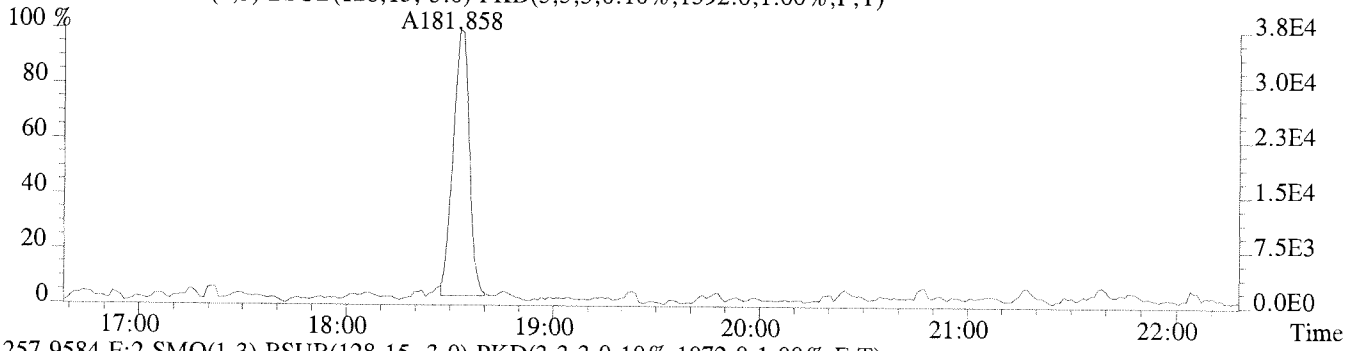


223.9974 F:2

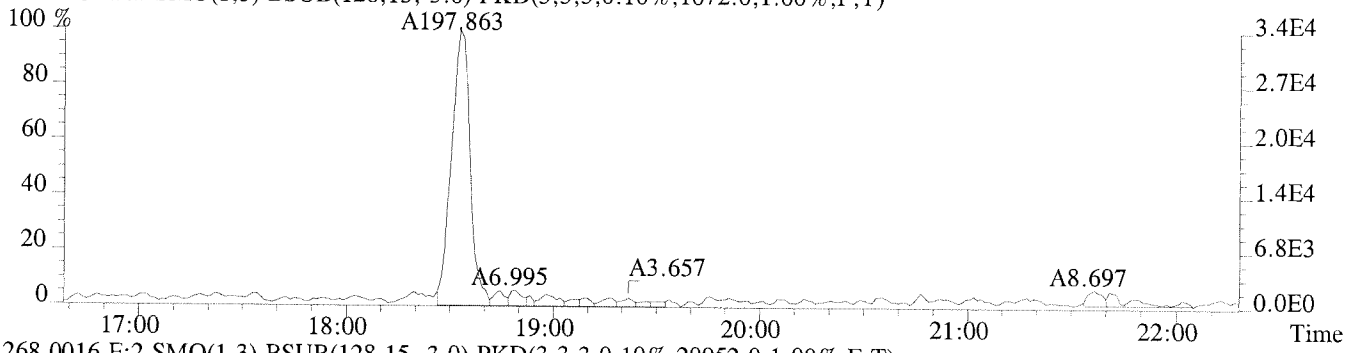


File:U139142 #1-313 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

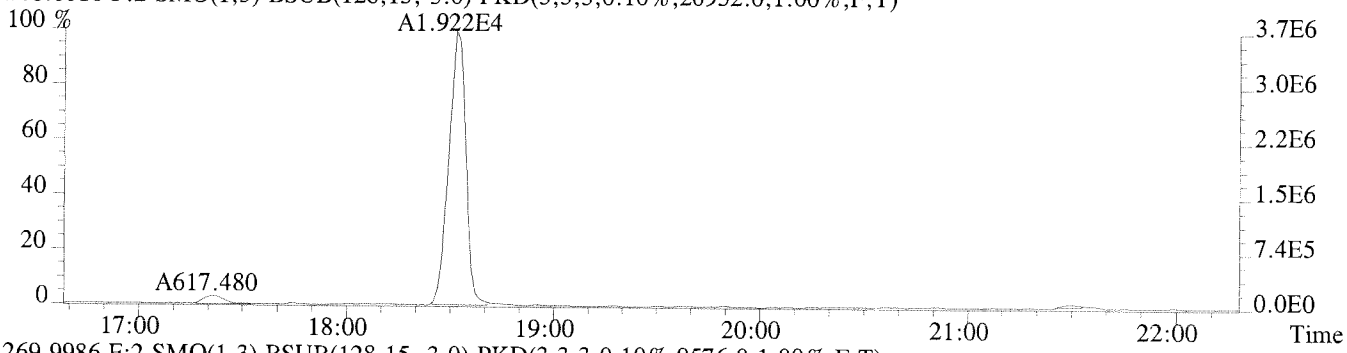
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1392.0,1.00%,F,T)



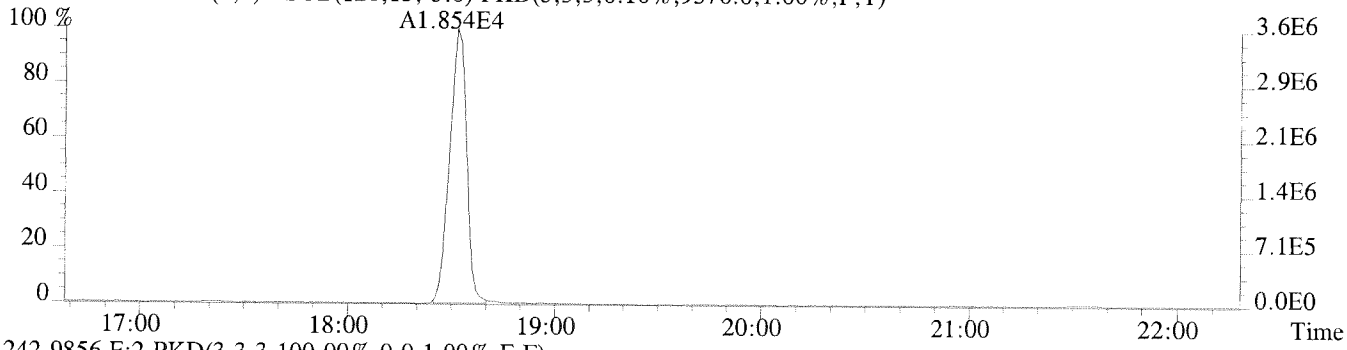
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1072.0,1.00%,F,T)



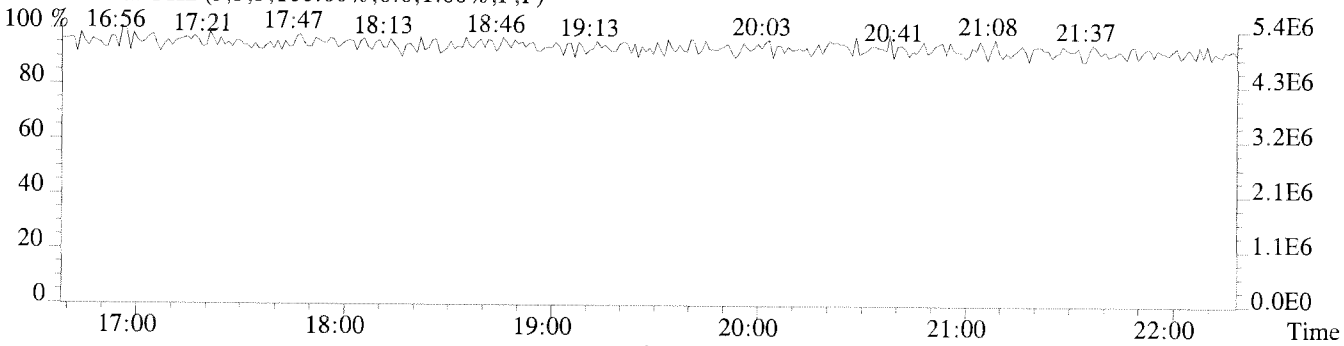
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,20952.0,1.00%,F,T)



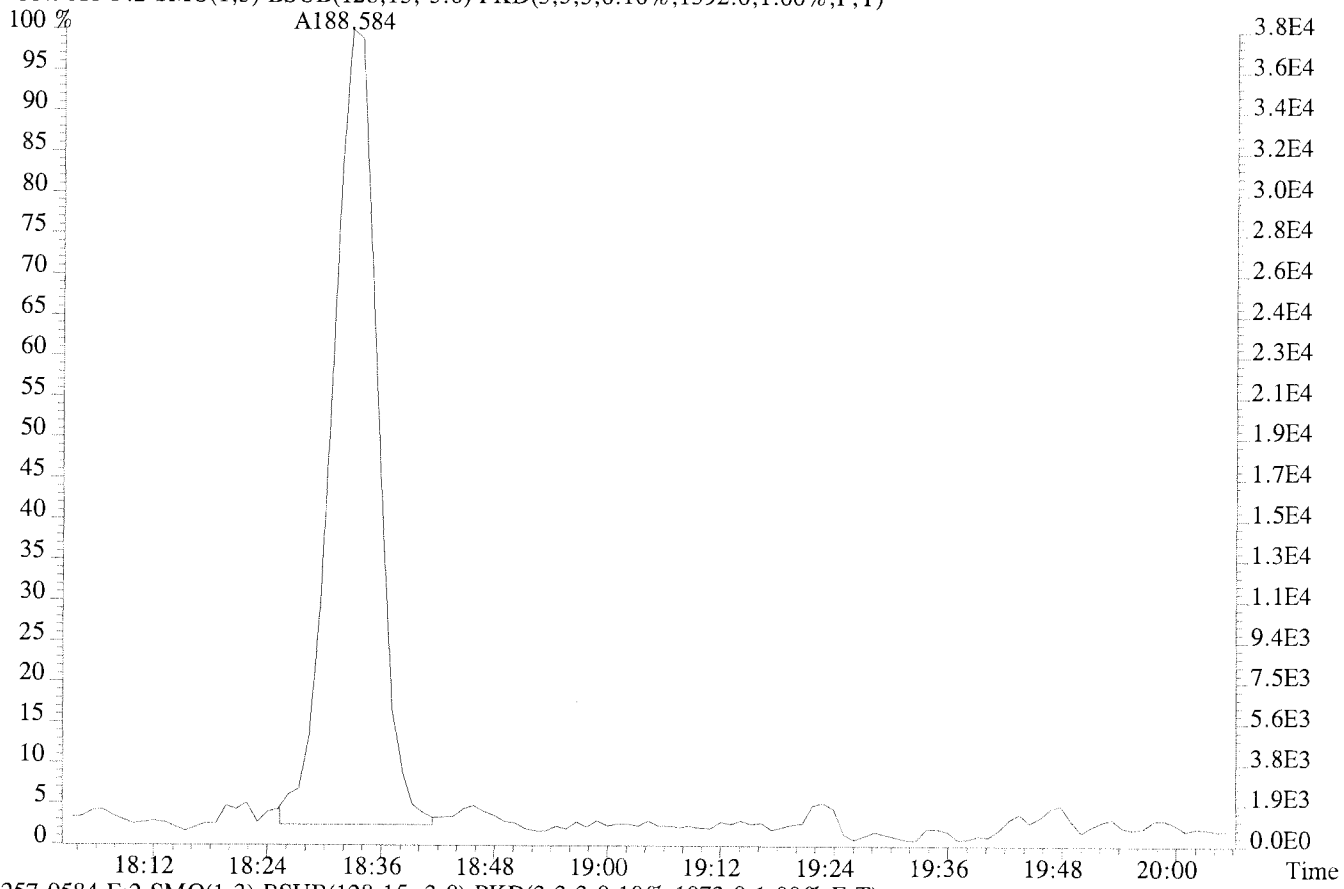
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9576.0,1.00%,F,T)



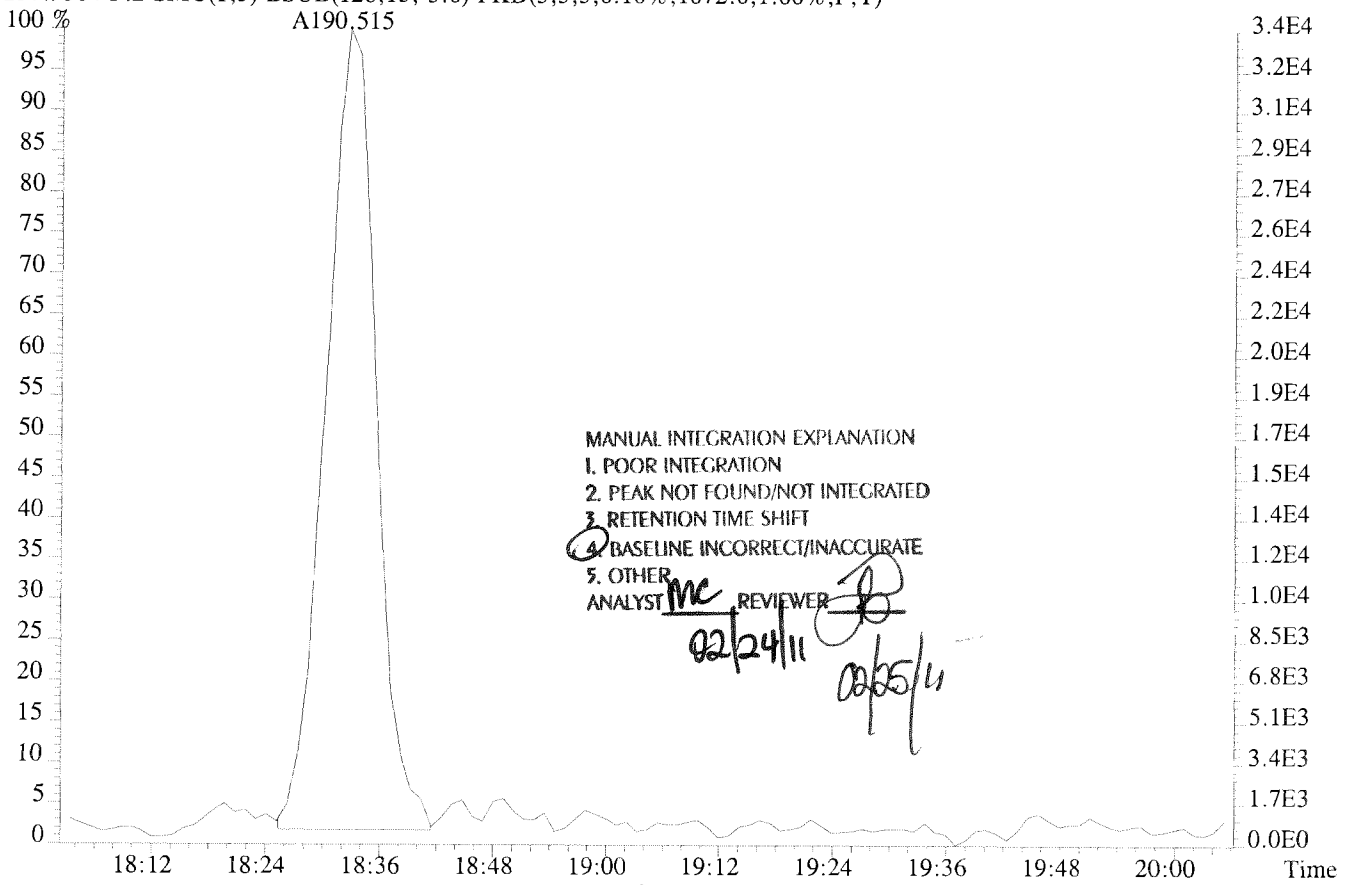
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139142 #1-313 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1392.0,1.00%,F,T)



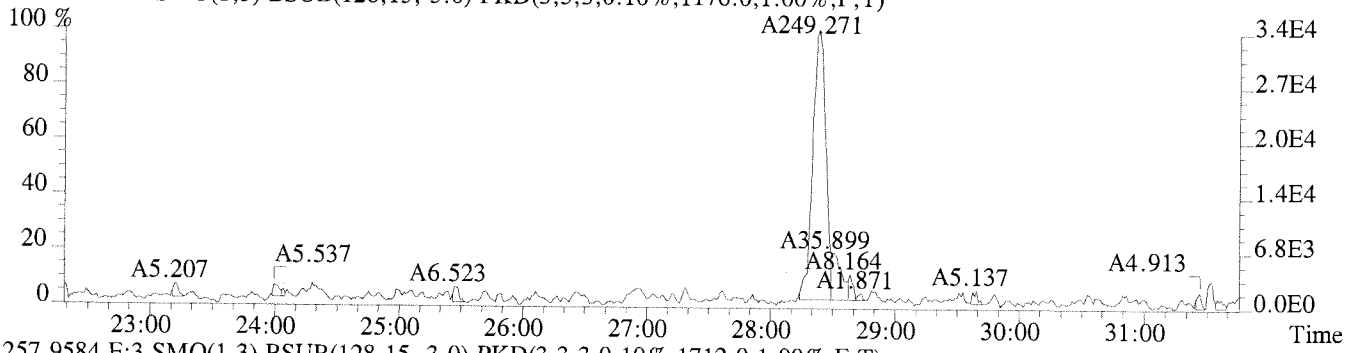
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1072.0,1.00%,F,T)



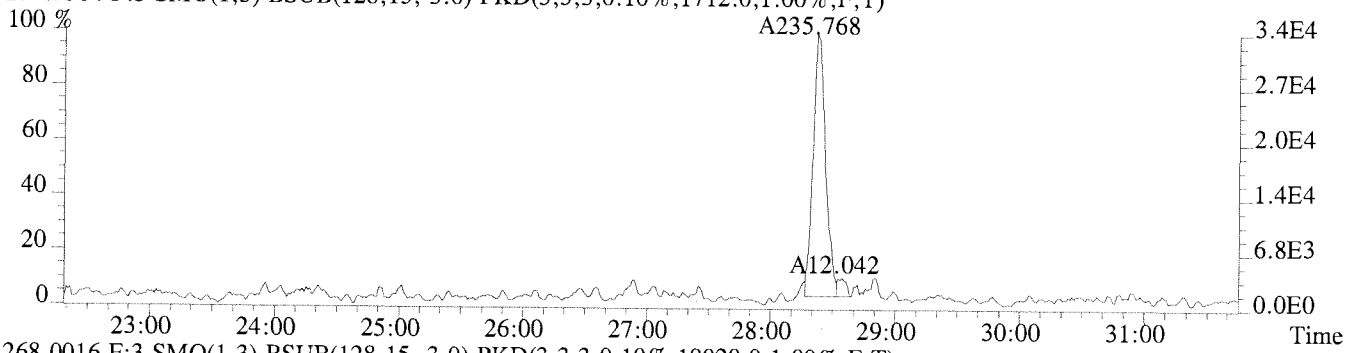
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/24/11 02/25/11

File:U139142 #1-604 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

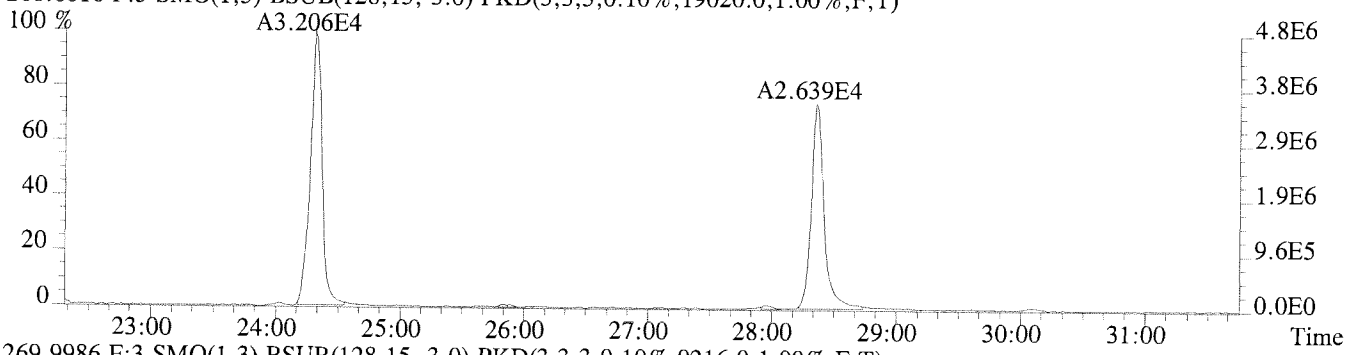
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)



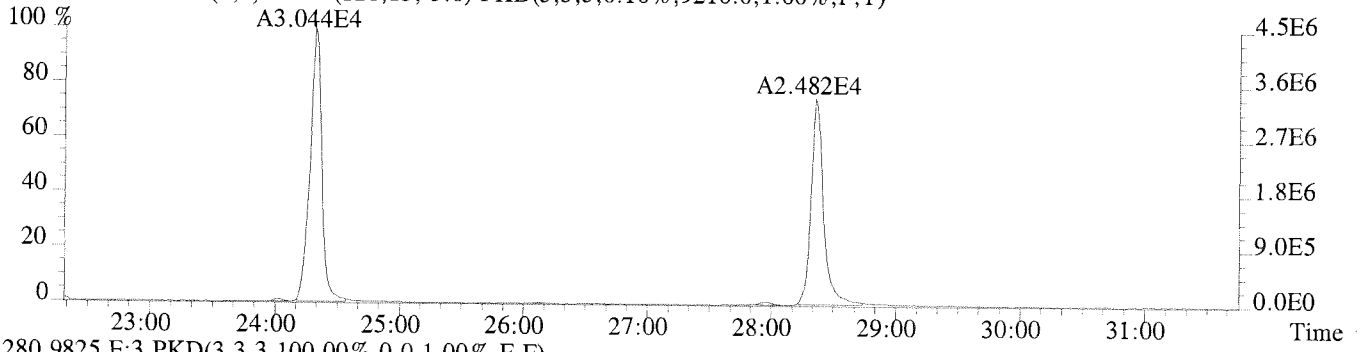
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1712.0,1.00%,F,T)



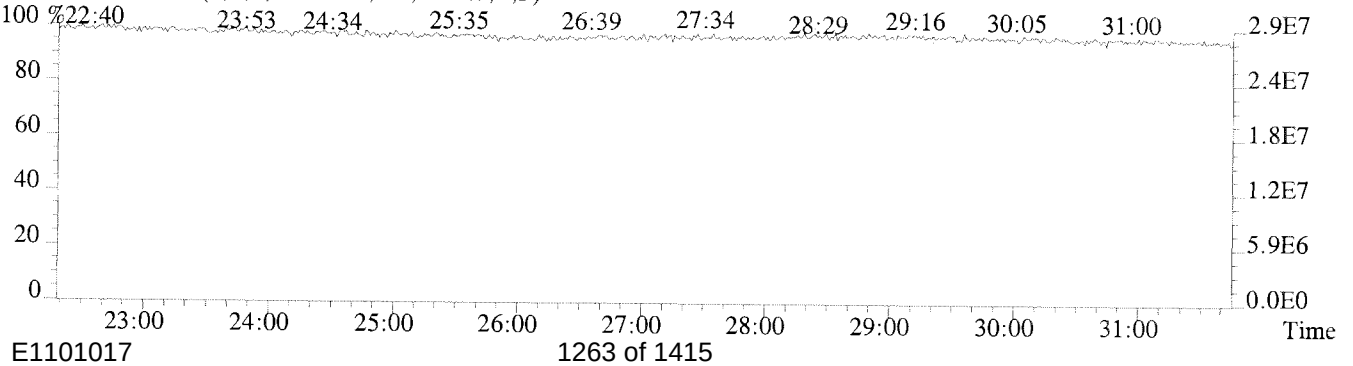
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,19020.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9216.0,1.00%,F,T)

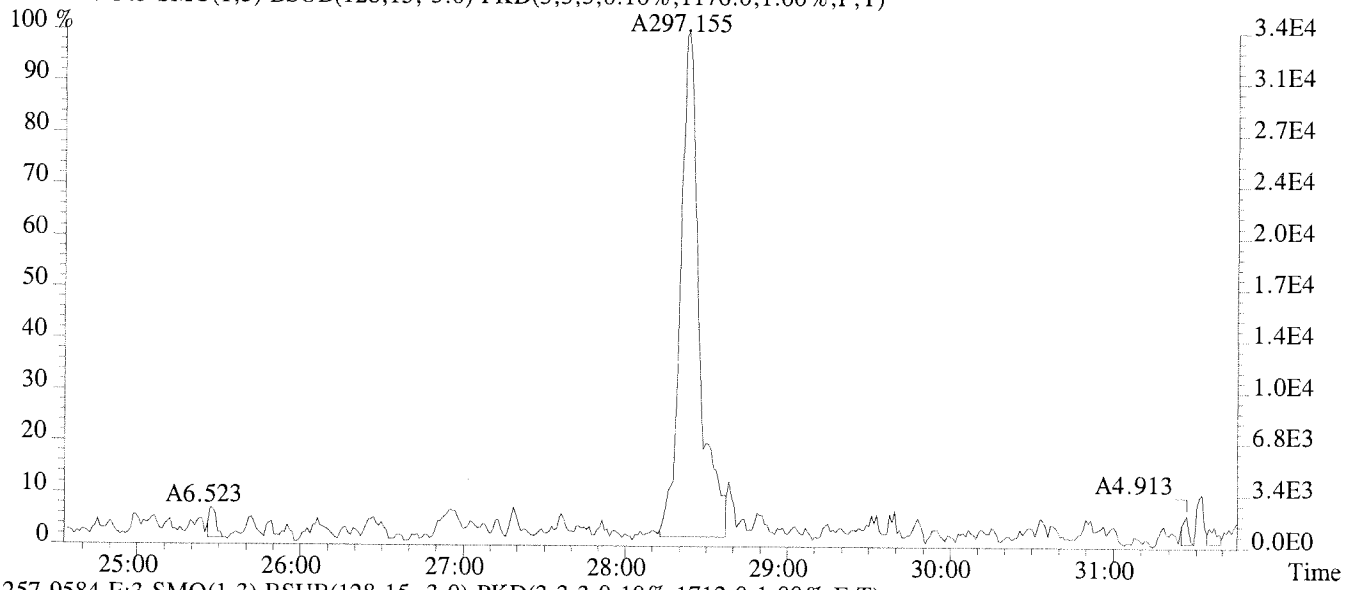


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

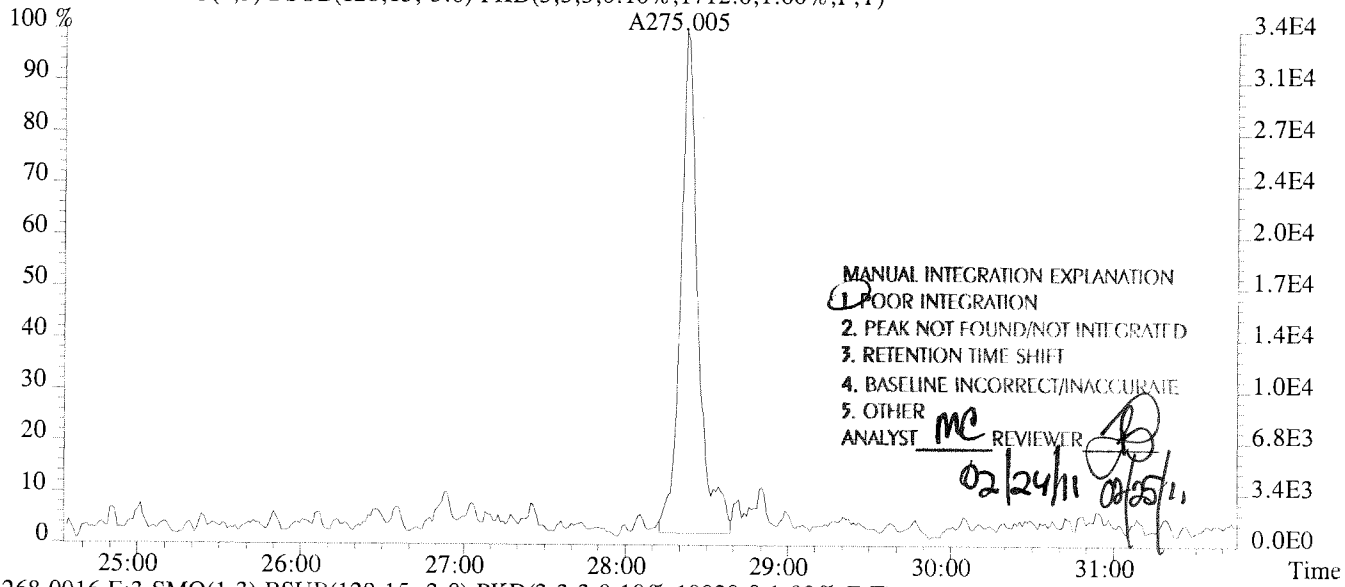


File:U139142 #1-604 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

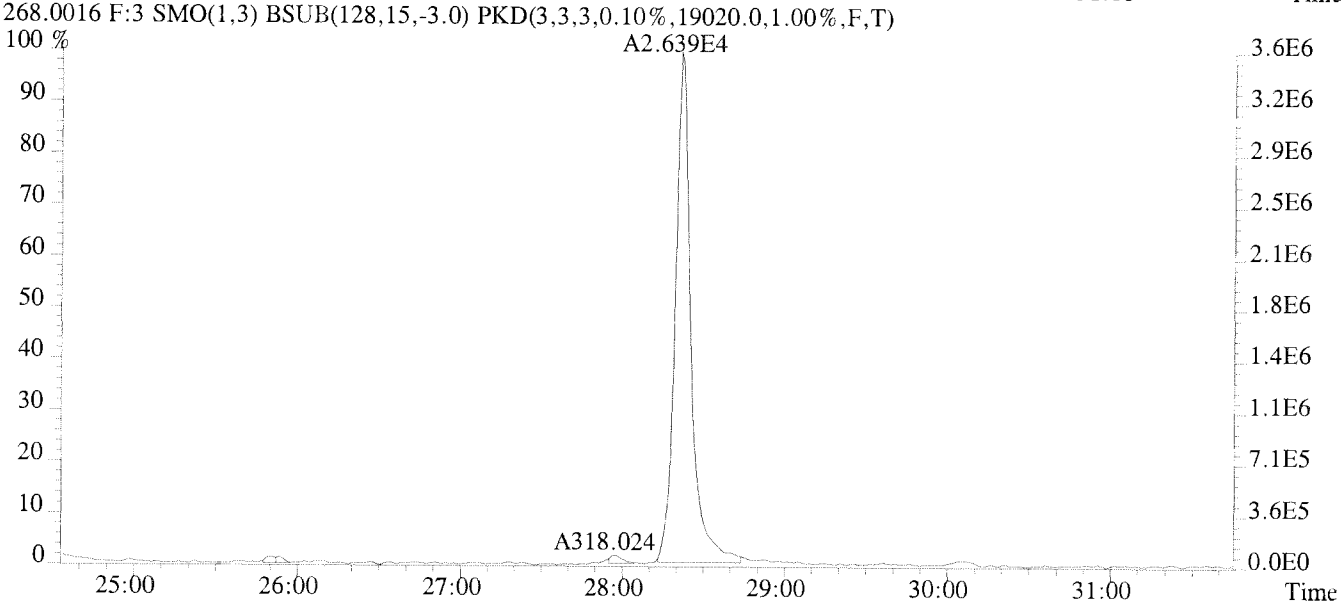
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1176.0,1.00%,F,T)



257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1712.0,1.00%,F,T)

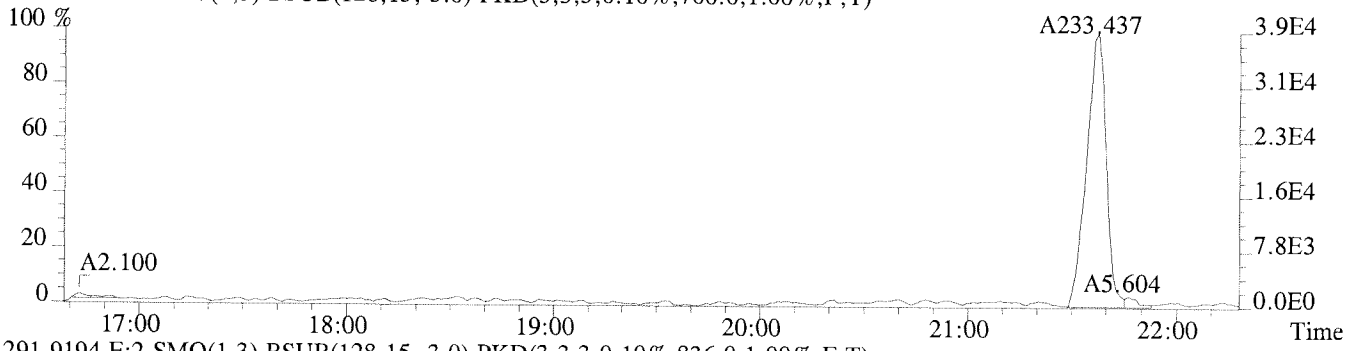


268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,19020.0,1.00%,F,T)

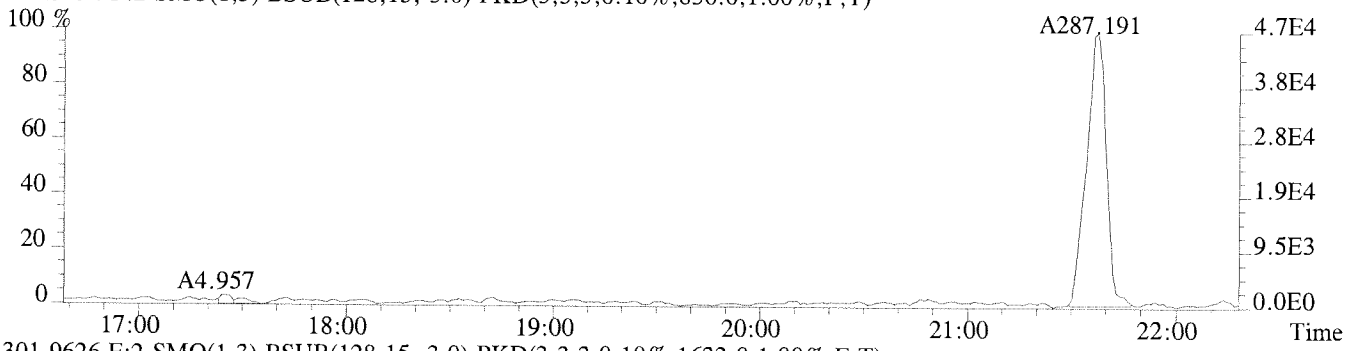


File:U139142 #1-313 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

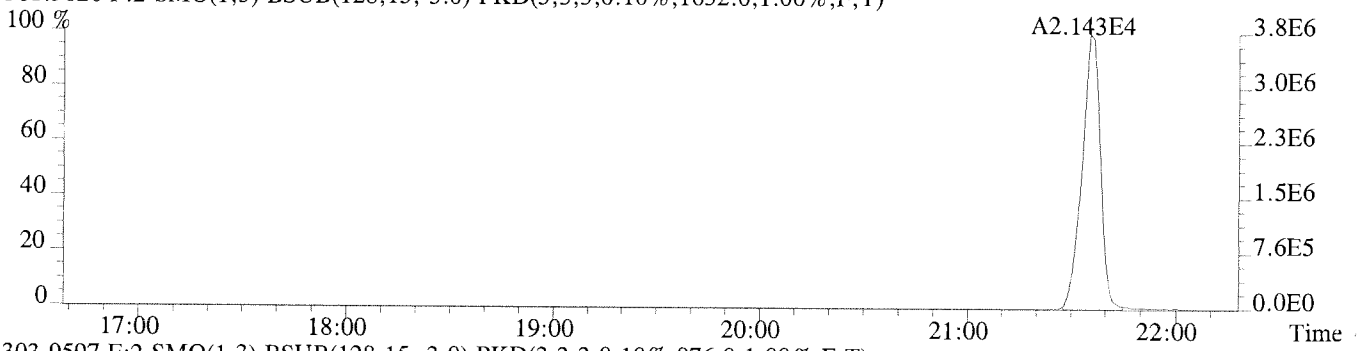
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,T)



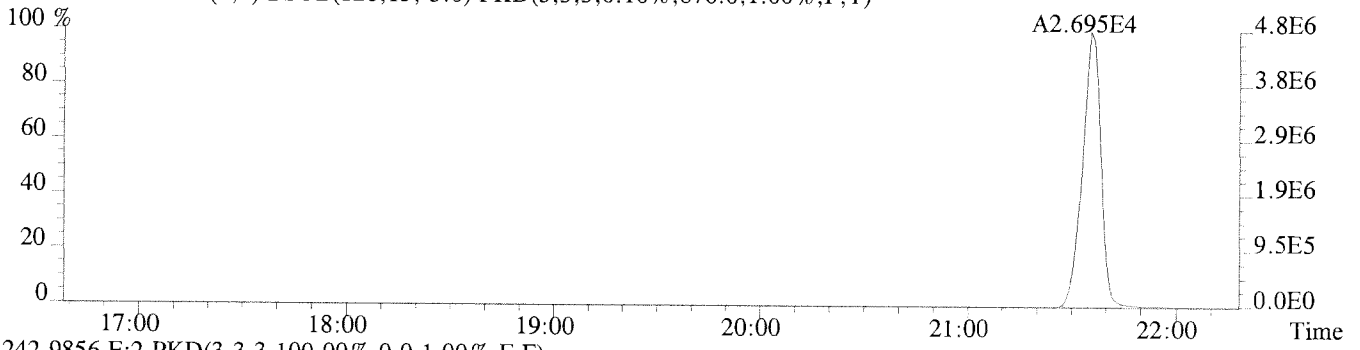
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)



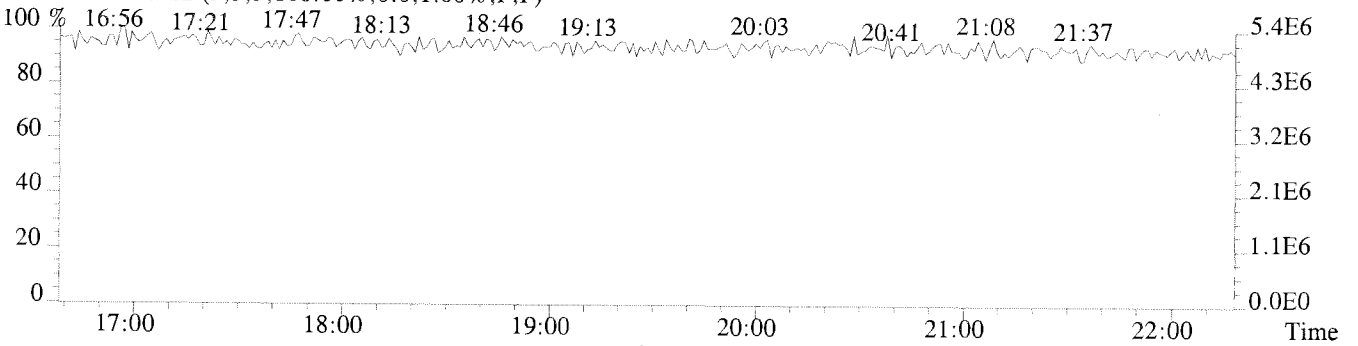
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1632.0,1.00%,F,T)



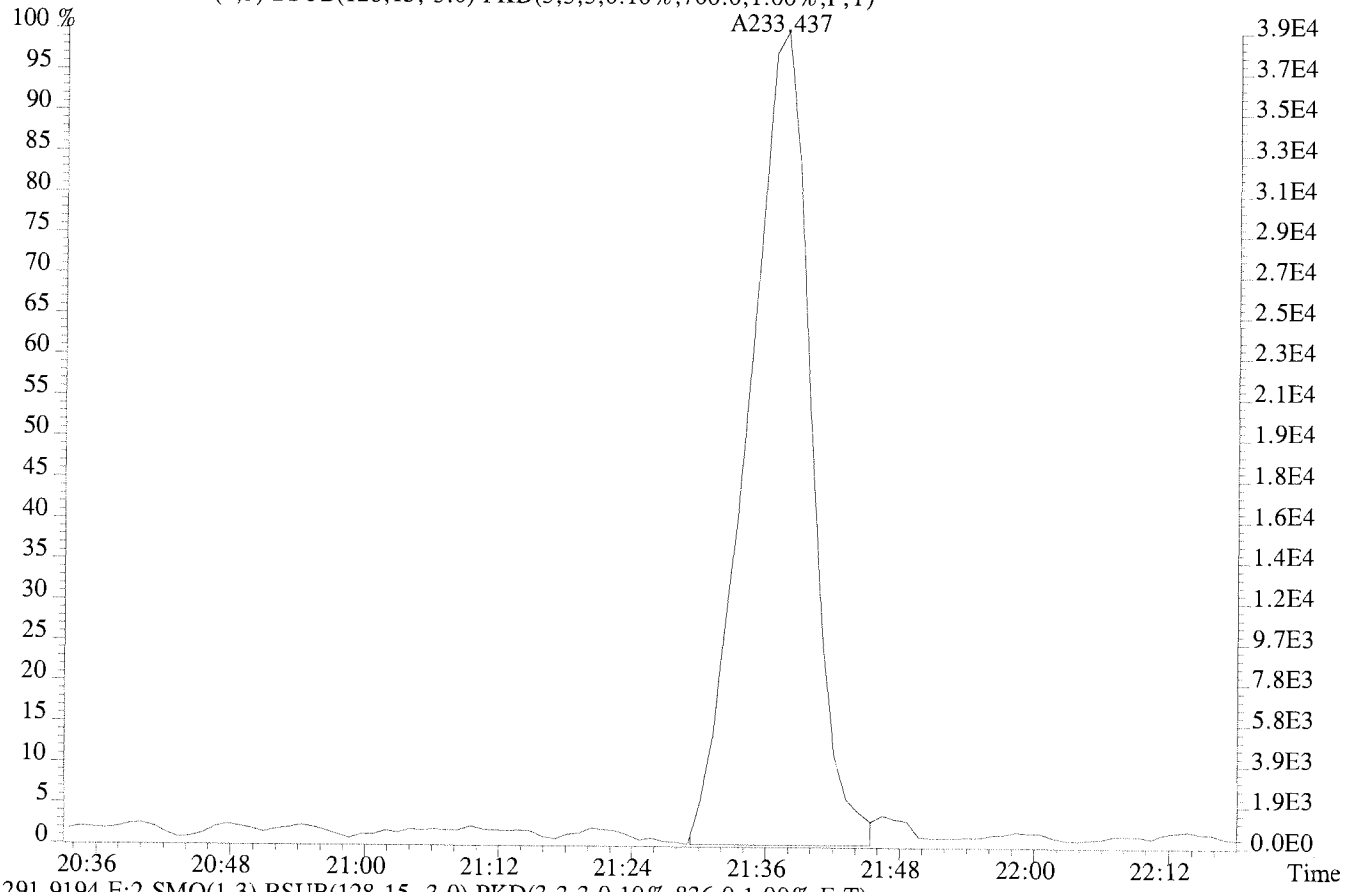
303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)



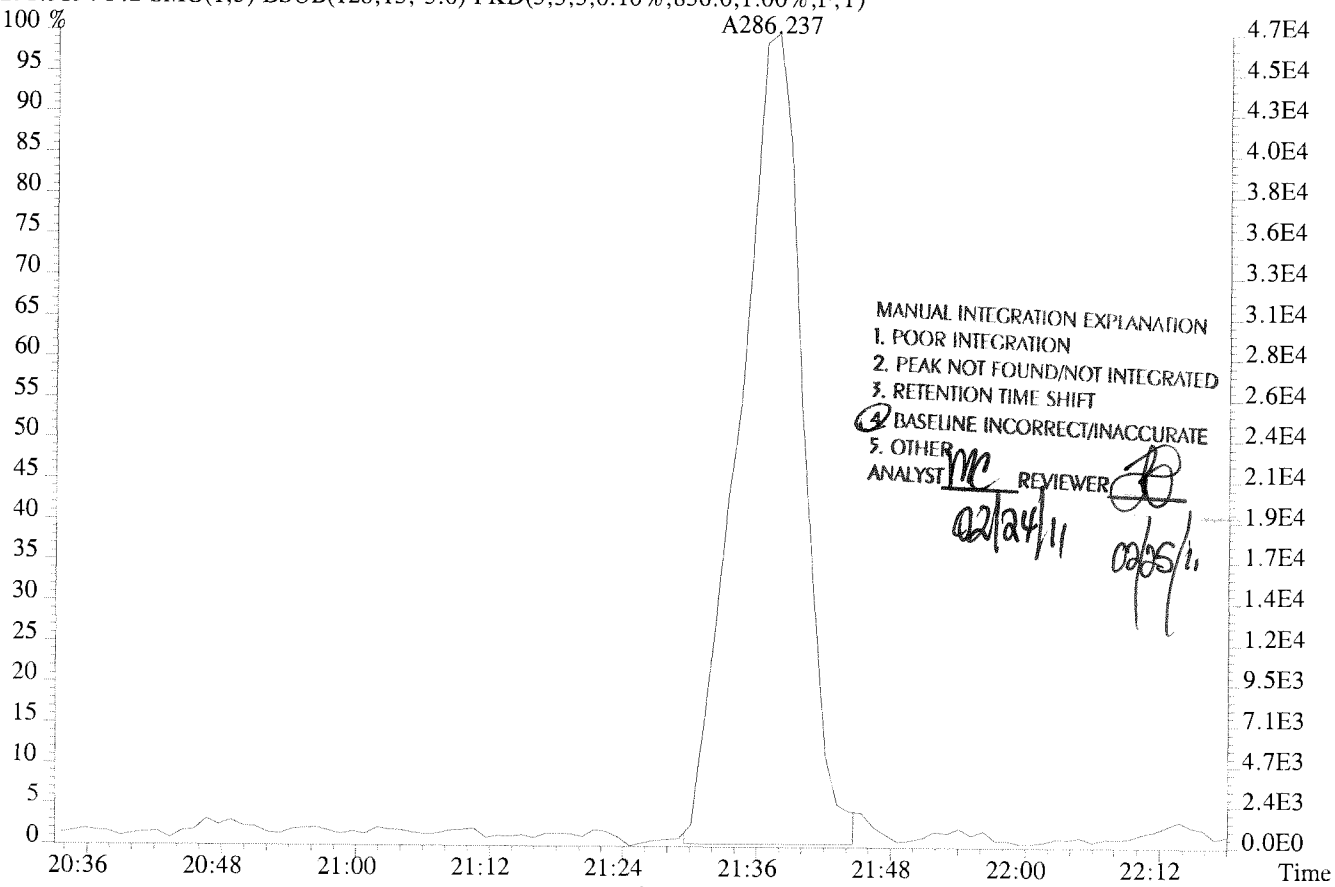
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139142 #1-313 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,T)



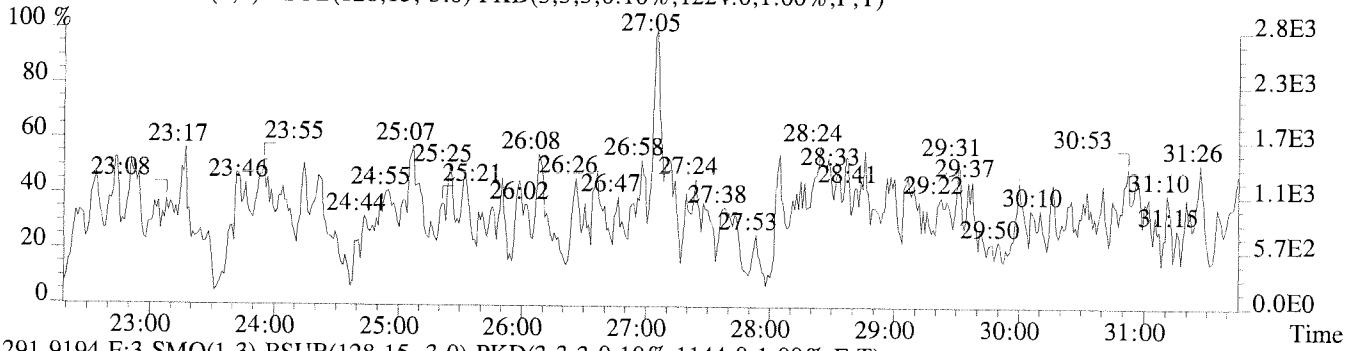
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,836.0,1.00%,F,T)



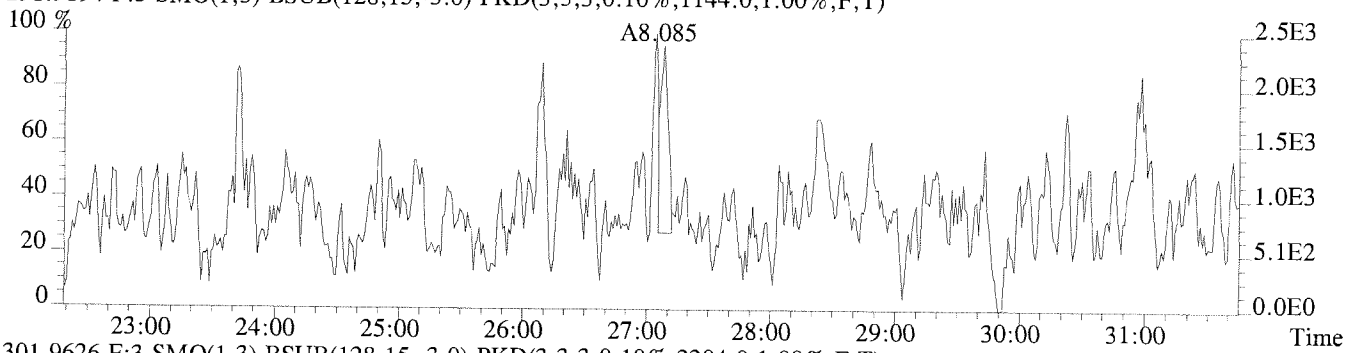
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/24/11 02/05/11

File:U139142 #1-604 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

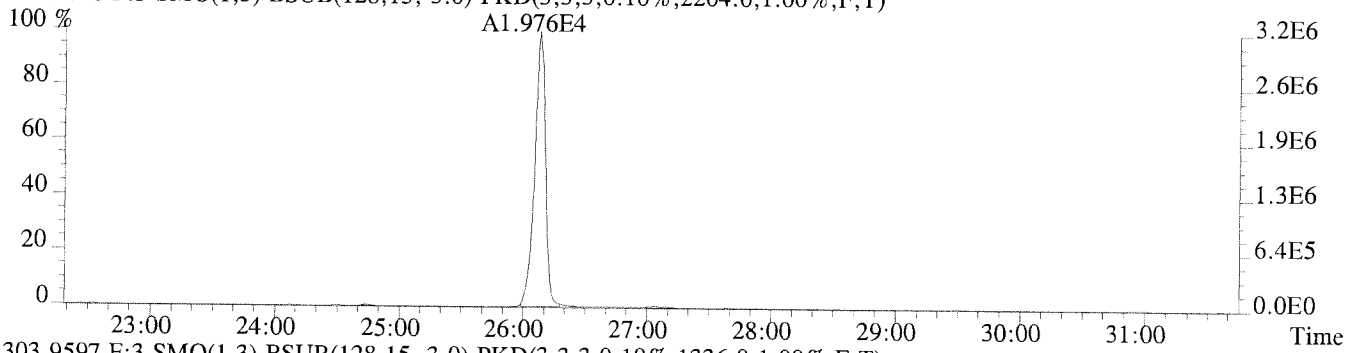
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1224.0,1.00%,F,T)



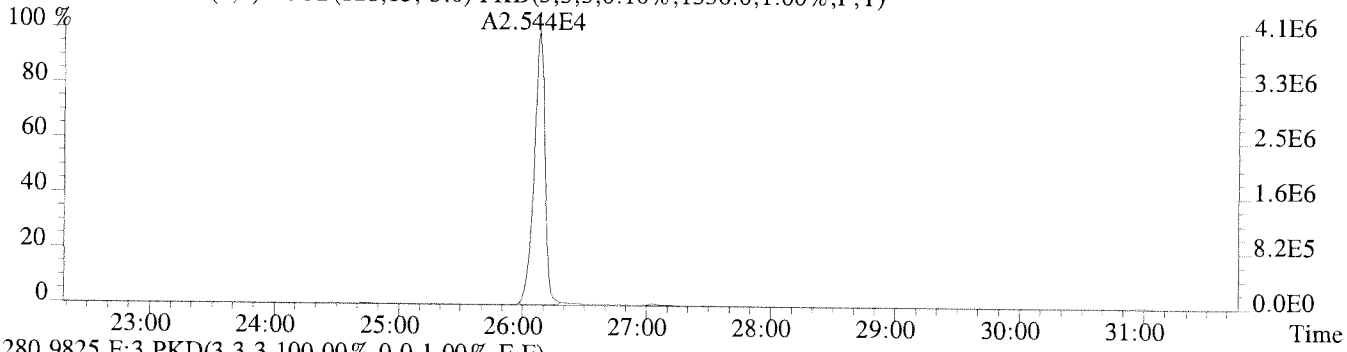
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1144.0,1.00%,F,T)



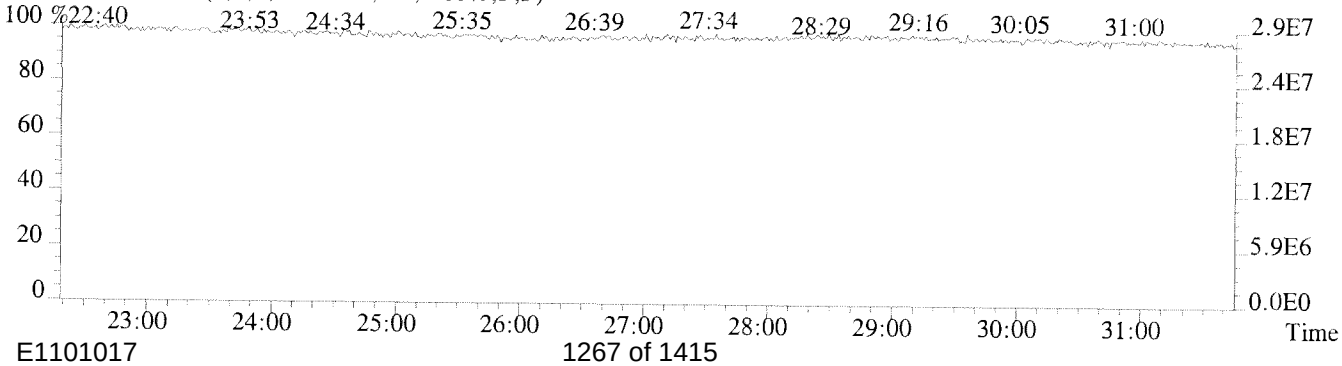
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2204.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1336.0,1.00%,F,T)

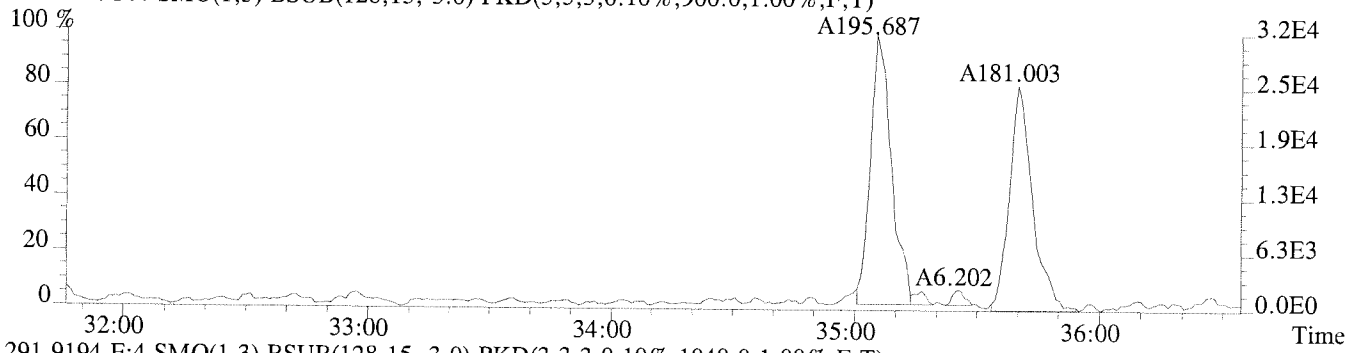


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

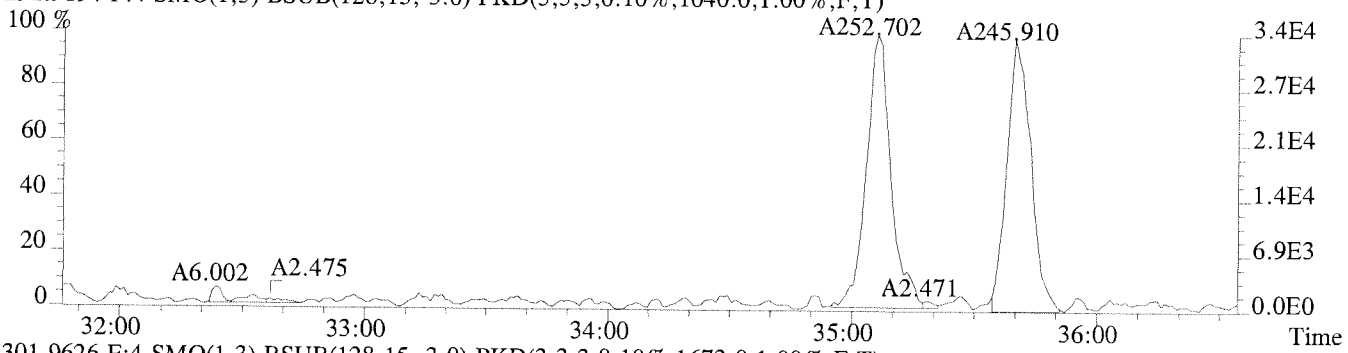


File:U139142 #1-308 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

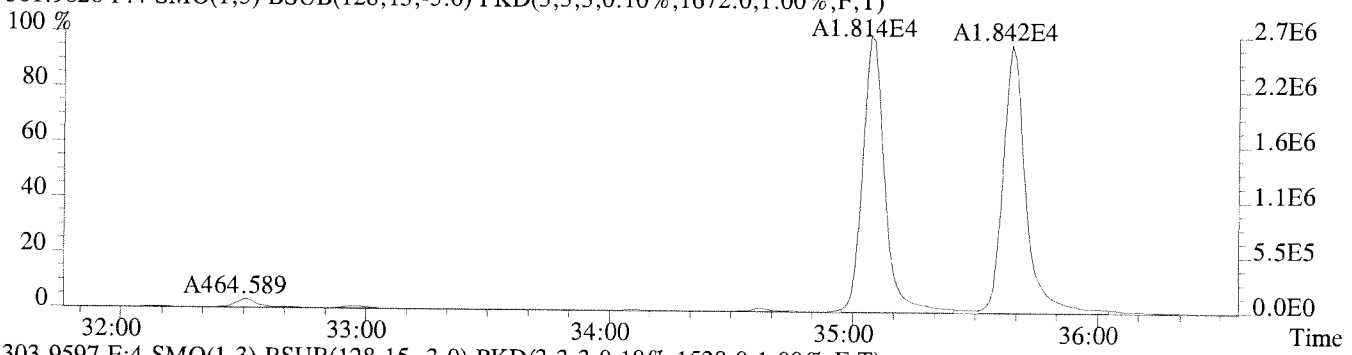
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



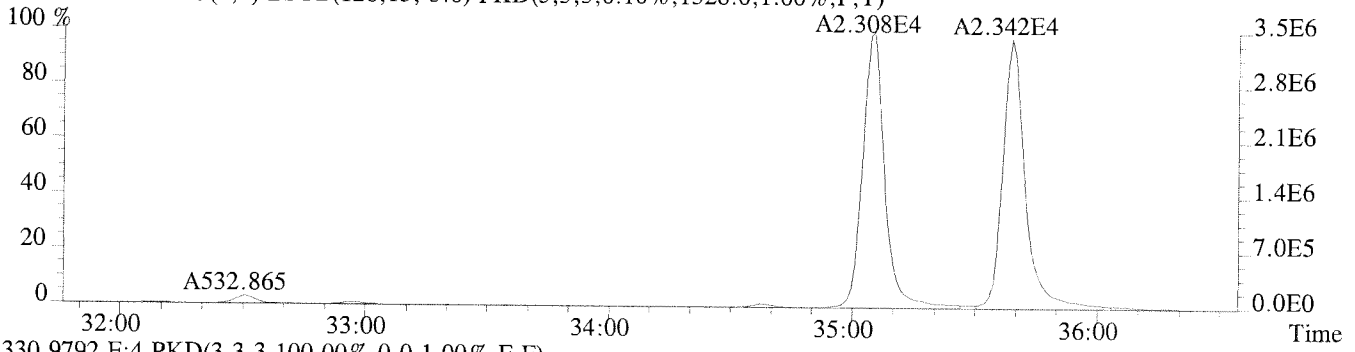
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)



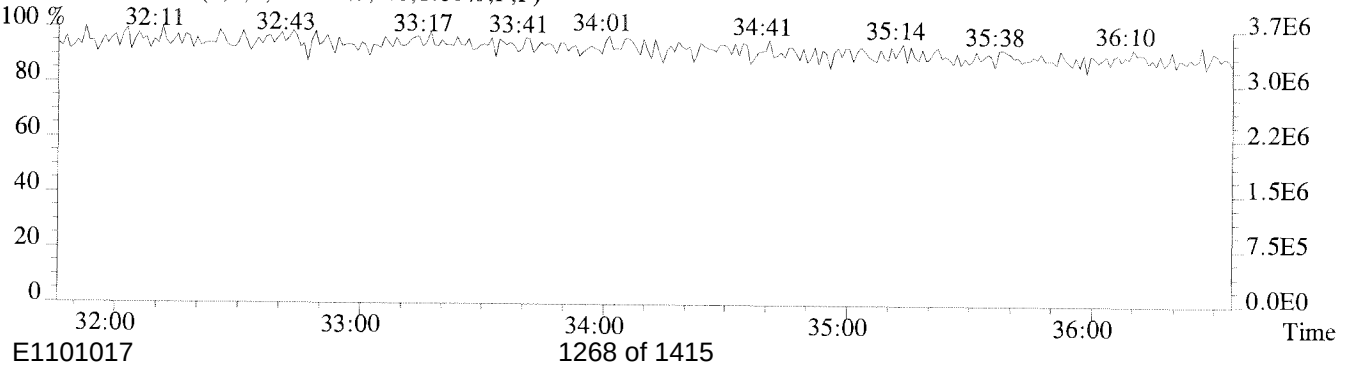
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1672.0,1.00%,F,T)



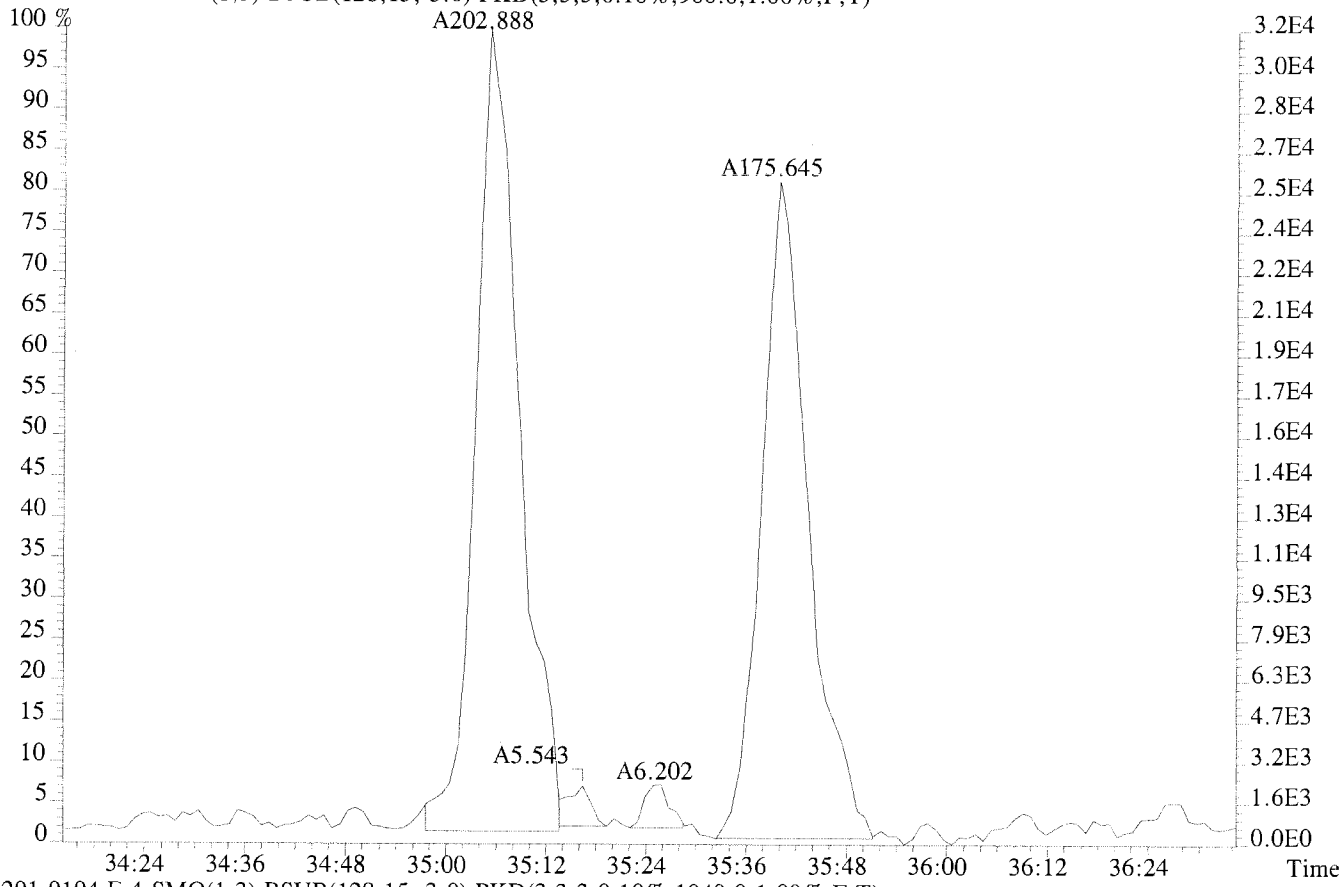
303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1528.0,1.00%,F,T)



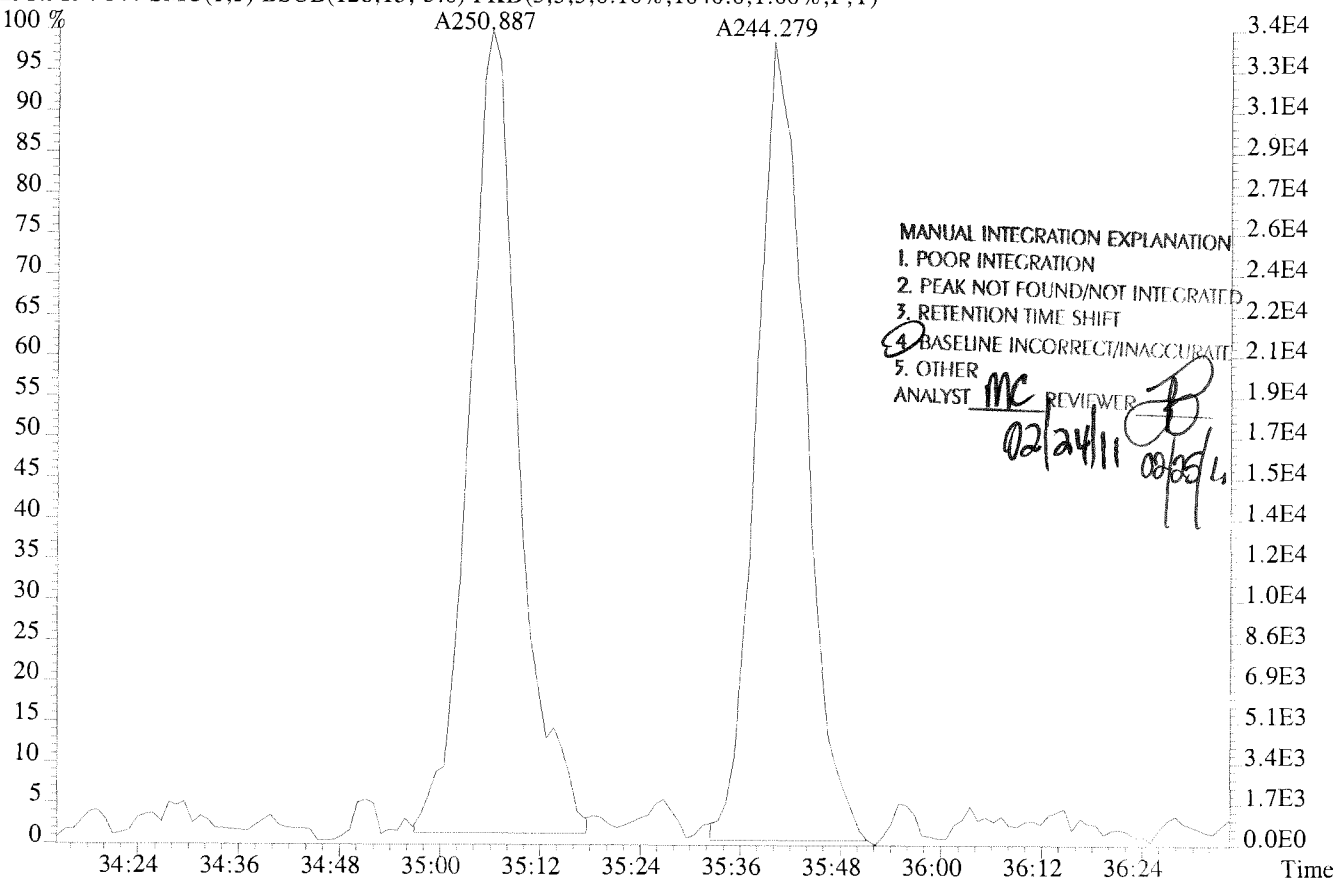
330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139142 #1-308 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



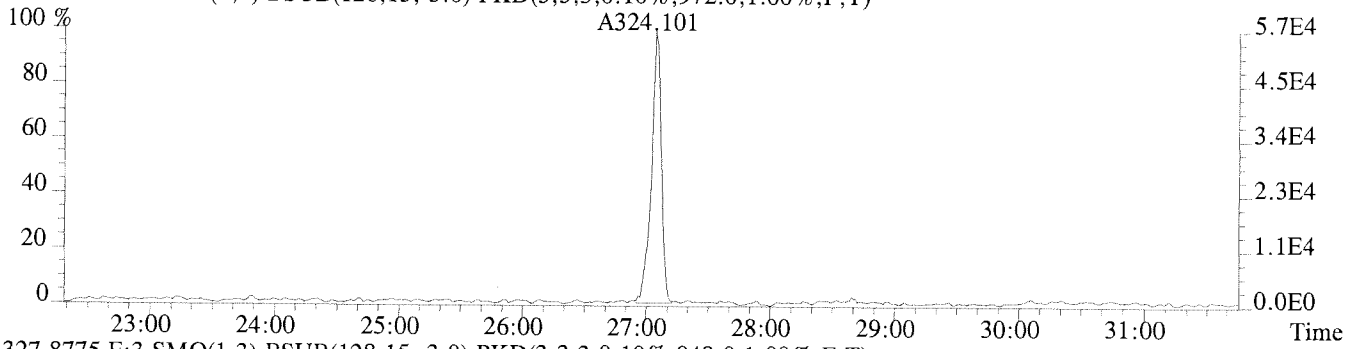
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1040.0,1.00%,F,T)



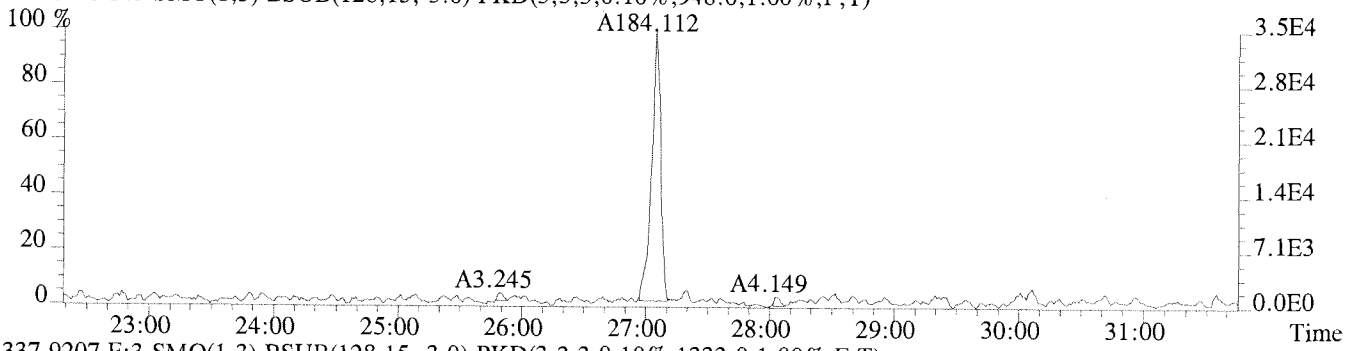
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/24/11 02/25/11

File:U139142 #1-604 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

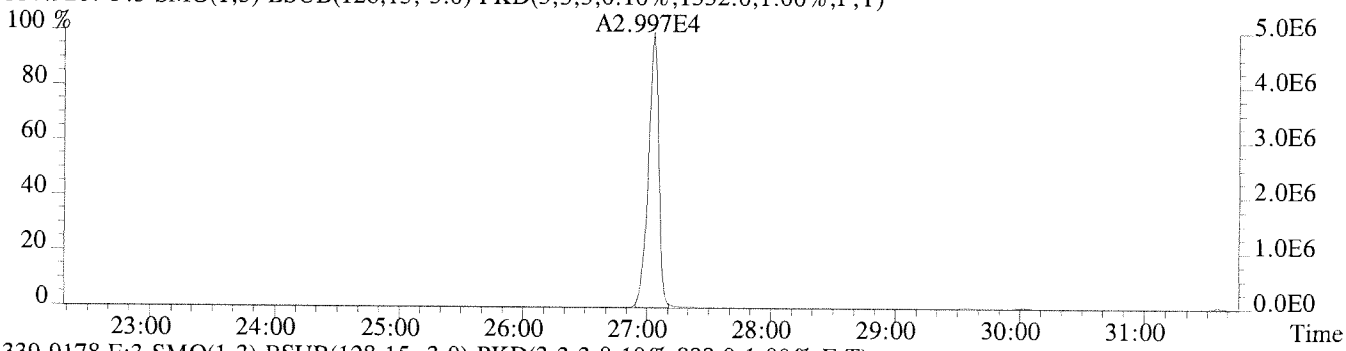
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)



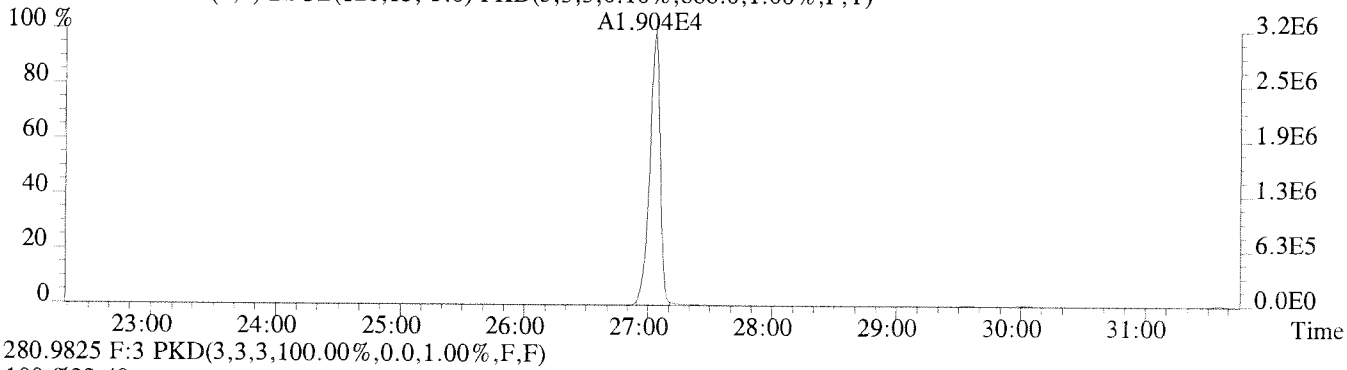
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,948.0,1.00%,F,T)



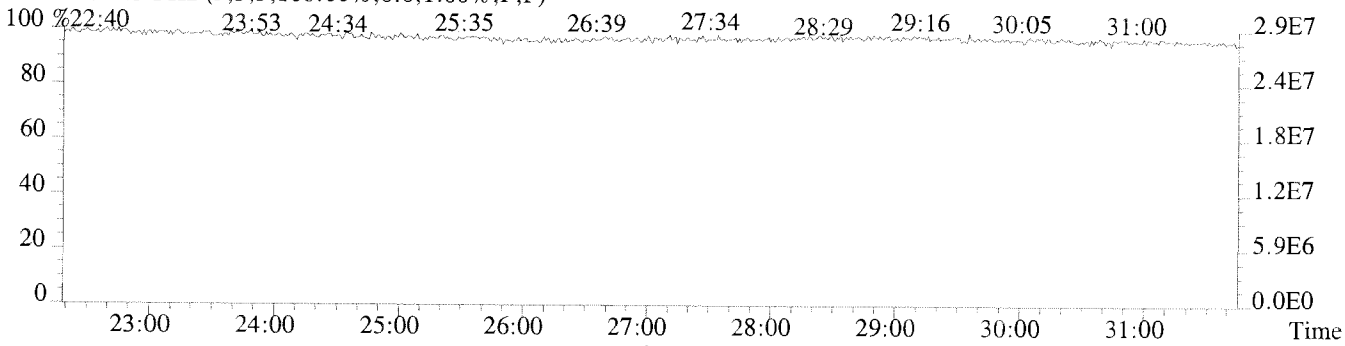
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1332.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)

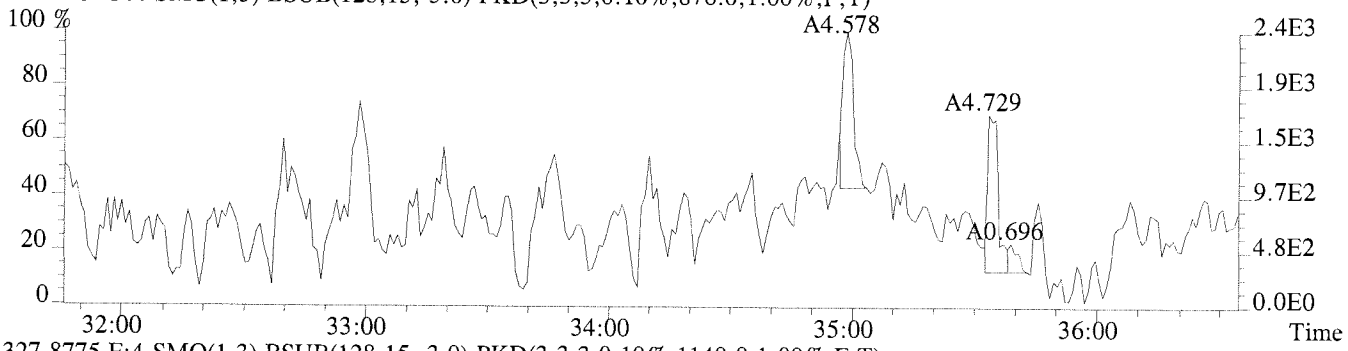


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

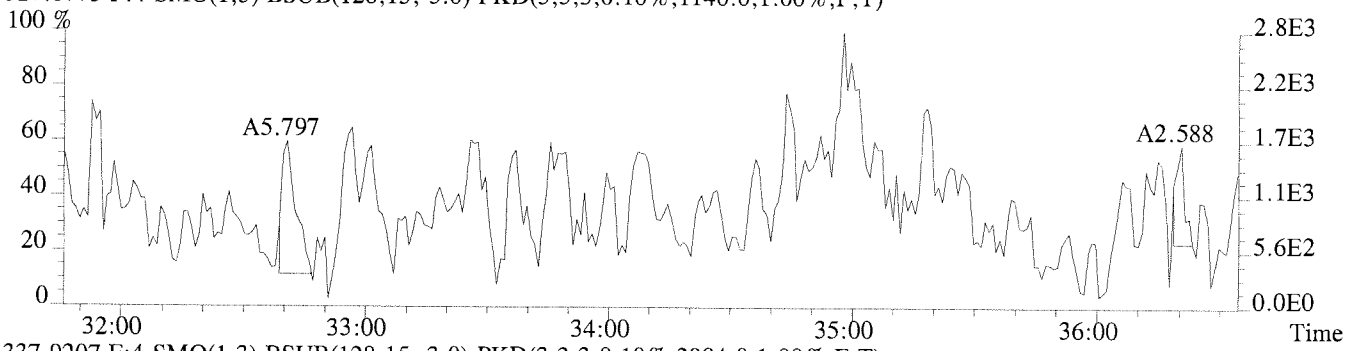


File:U139142 #1-308 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

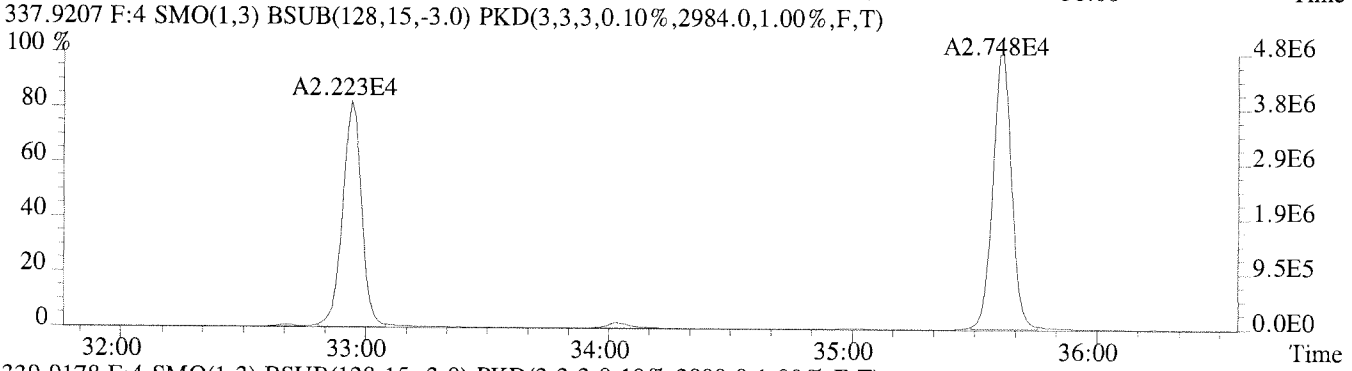
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)



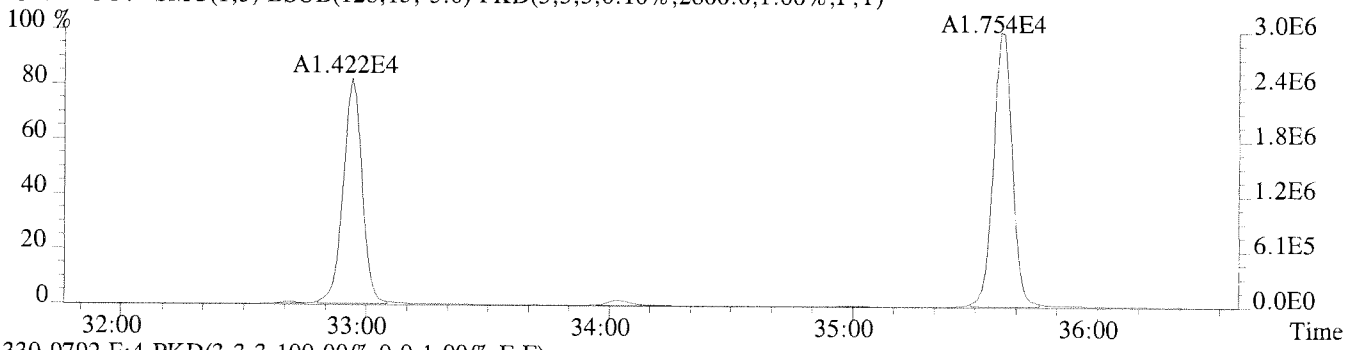
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1140.0,1.00%,F,T)



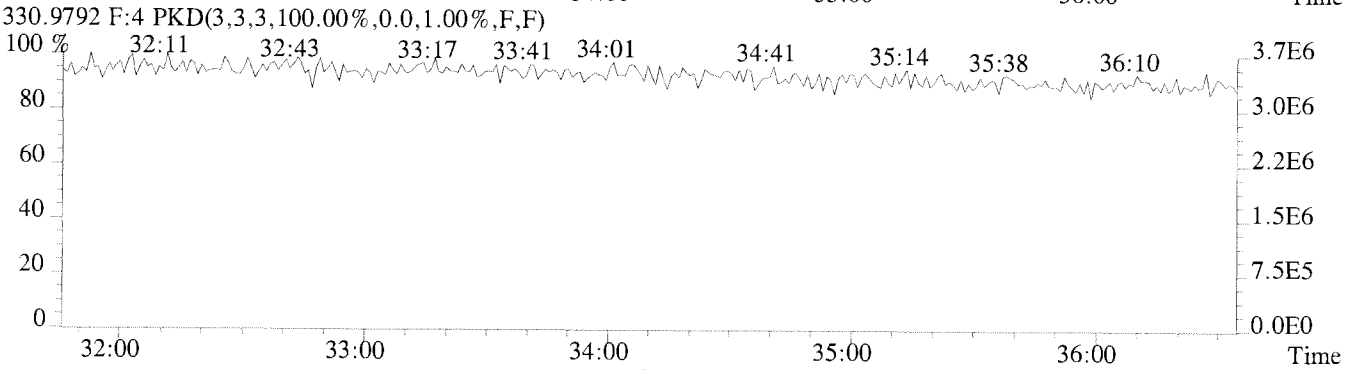
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2984.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2800.0,1.00%,F,T)

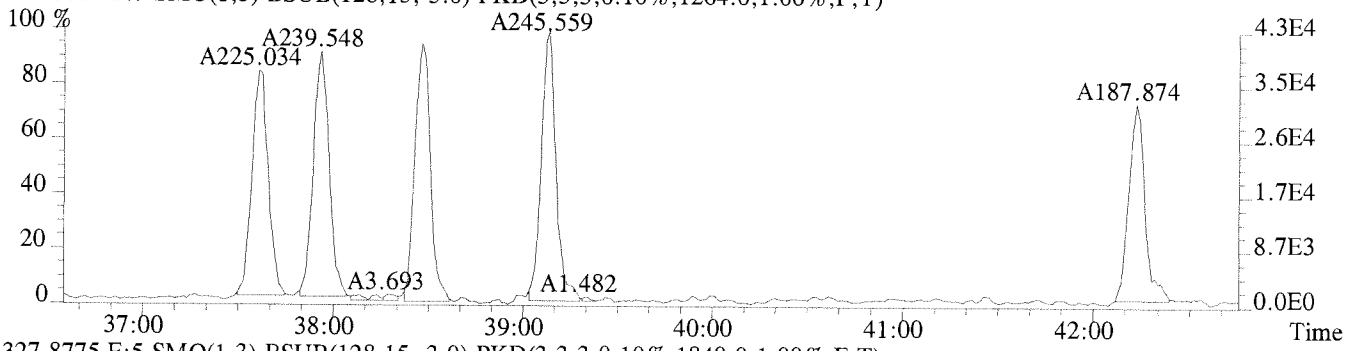


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

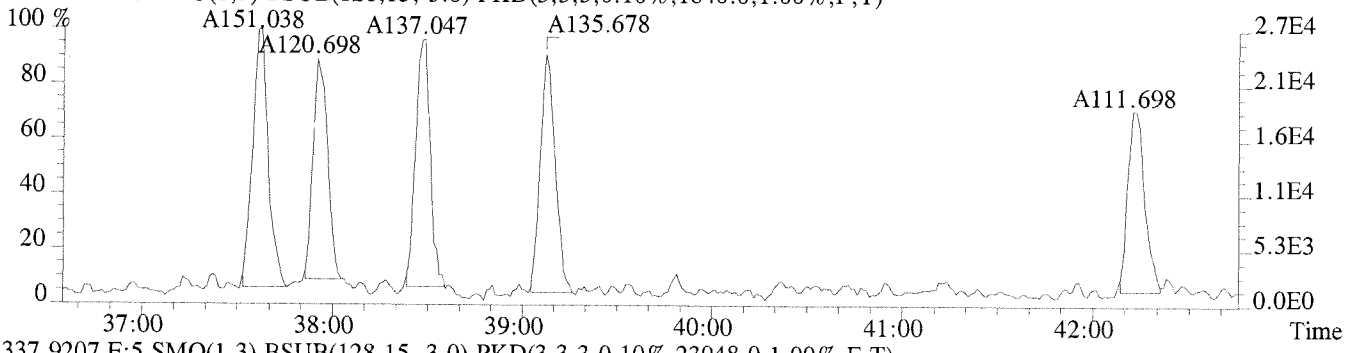


File:U139142 #1-395 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

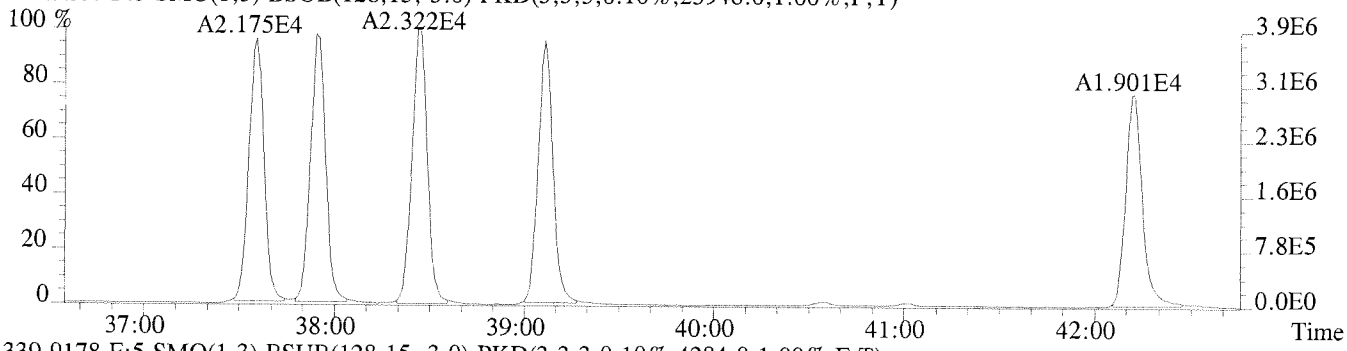
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)



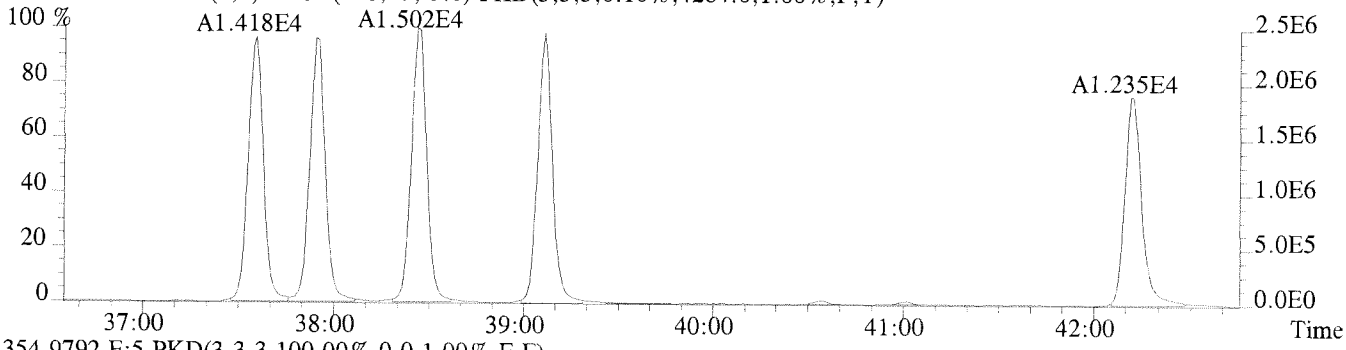
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1840.0,1.00%,F,T)



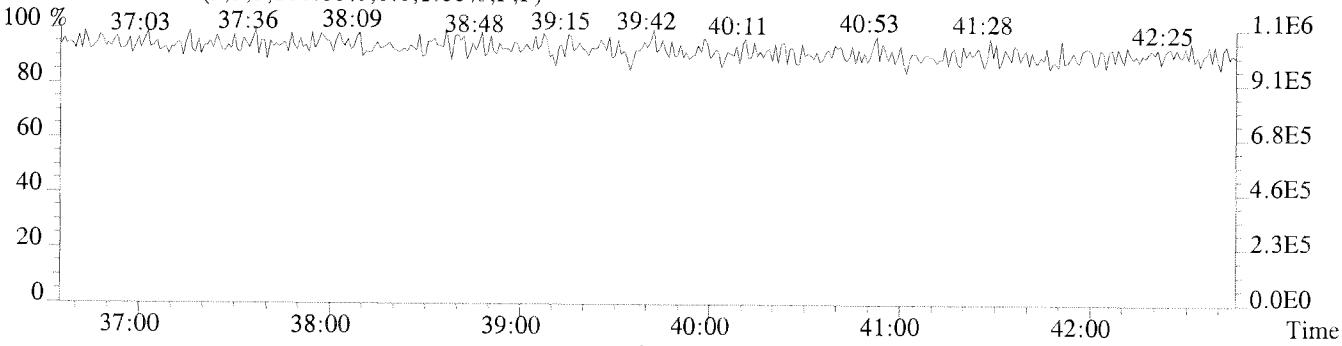
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,23948.0,1.00%,F,T)



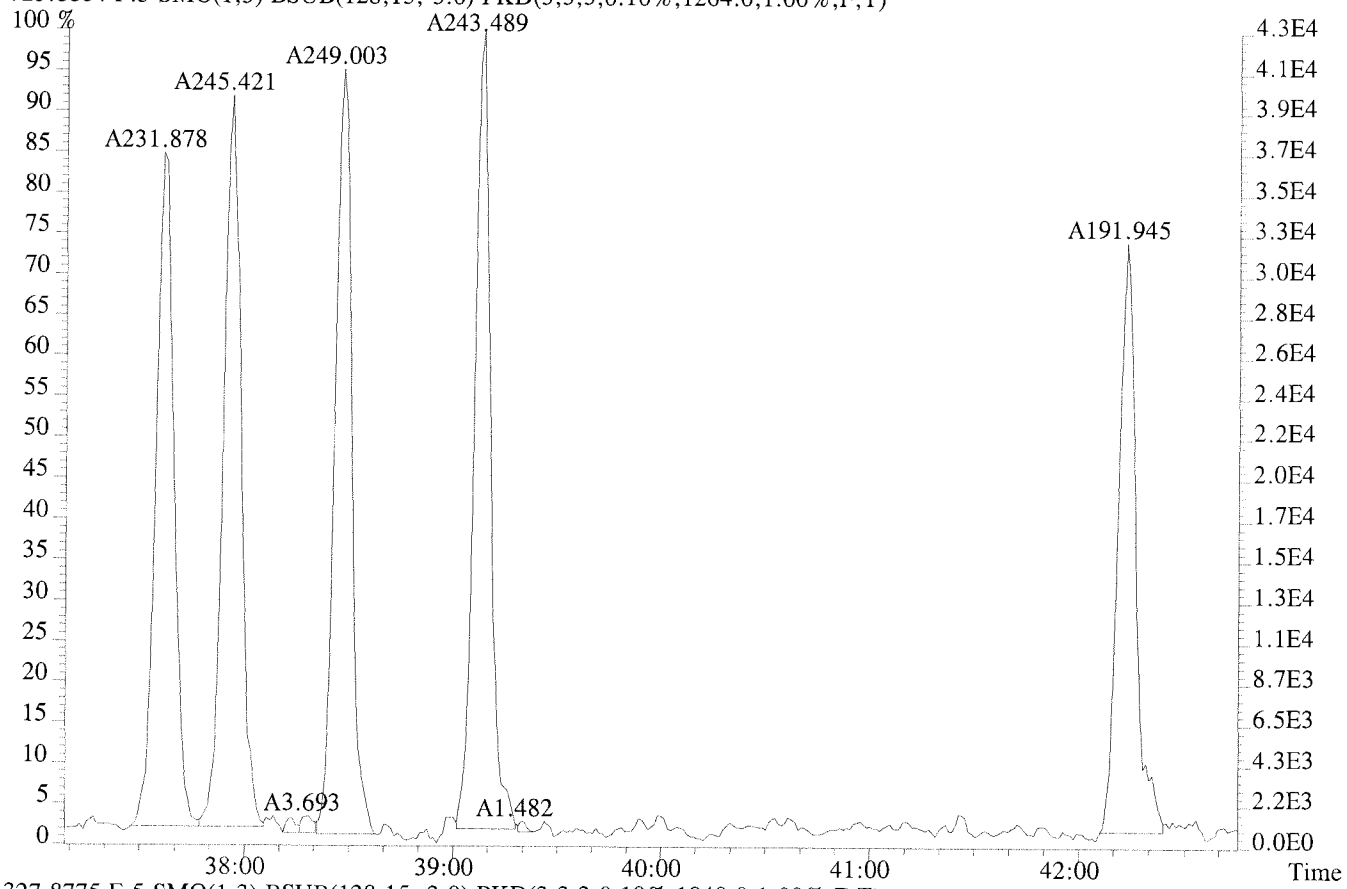
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4284.0,1.00%,F,T)



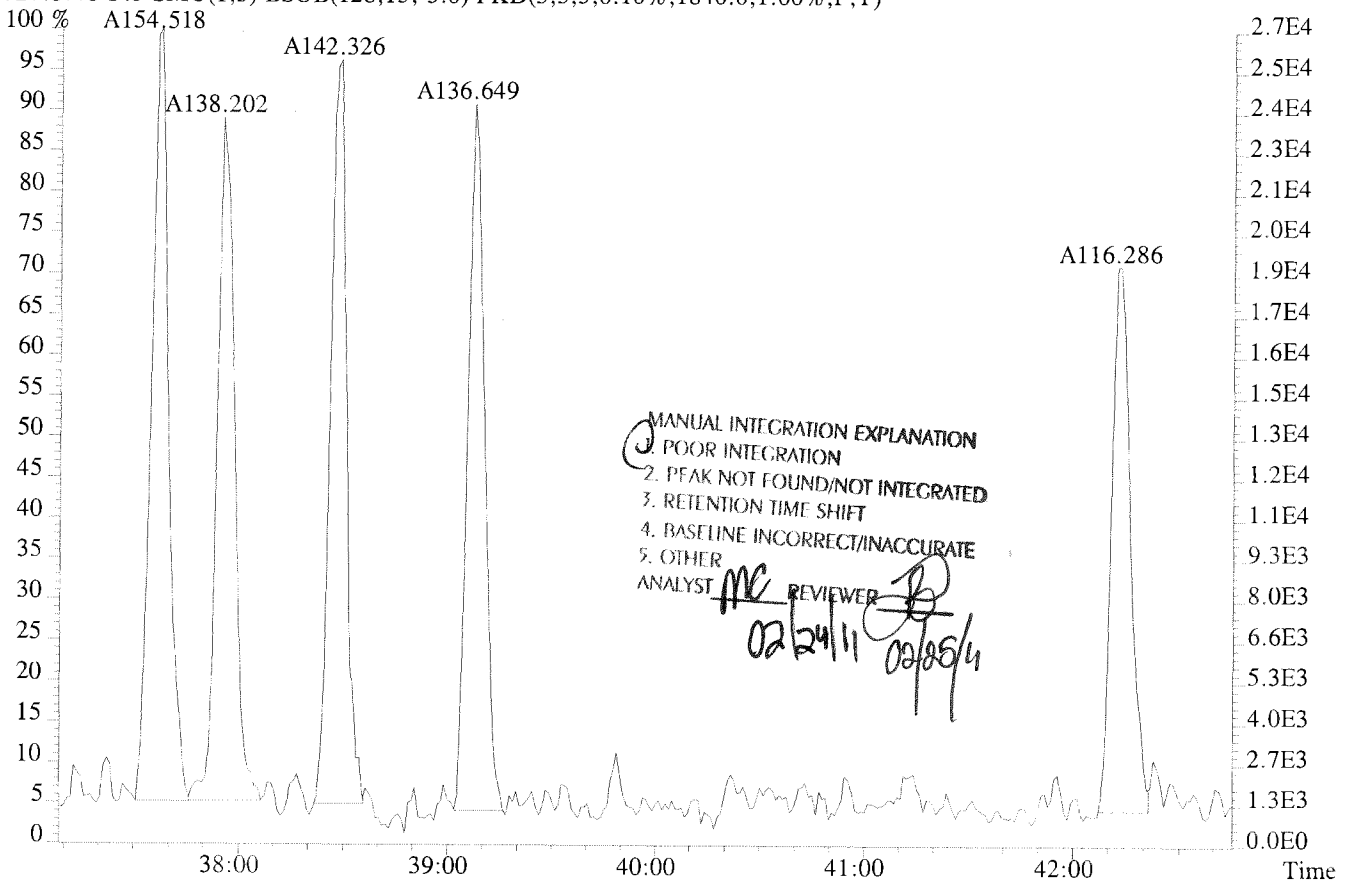
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139142 #1-395 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1264.0,1.00%,F,T)

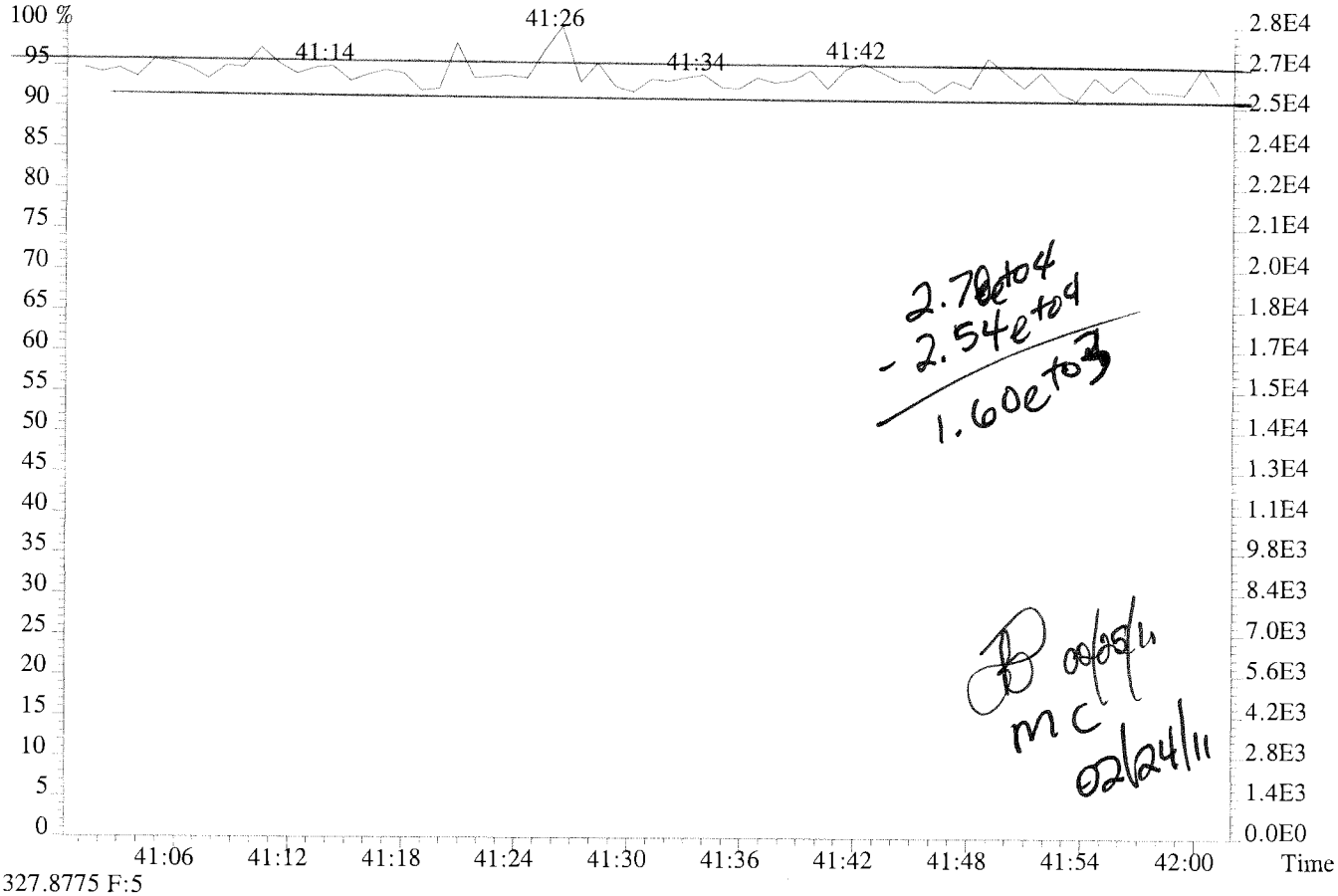


327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1840.0,1.00%,F,T)



MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/24/11 02/25/11

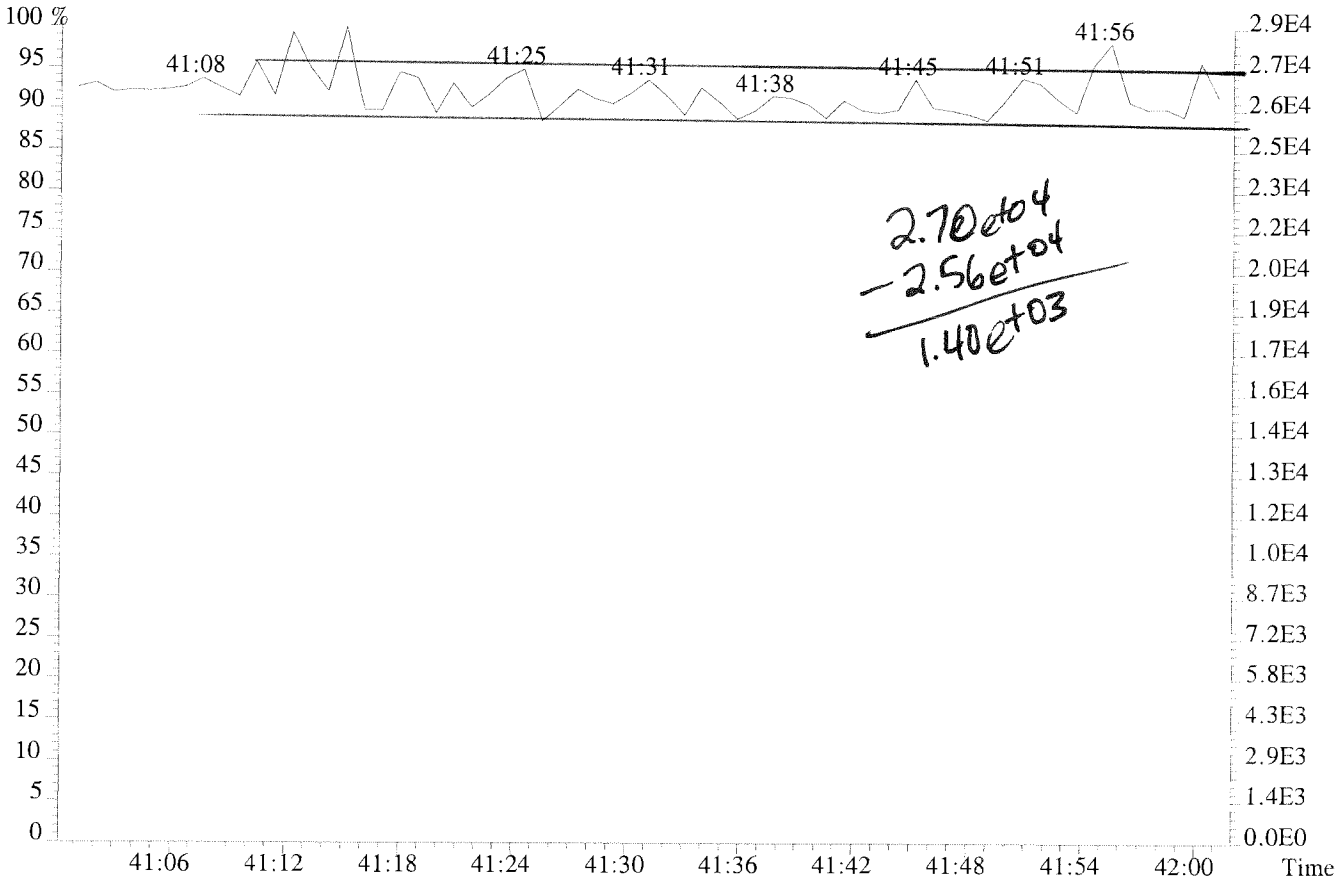
File:U139142 #1-395 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
325.8804 F:5



2.70e+04
- 2.54e+04
1.60e+03

02/24/11
MC
02/24/11

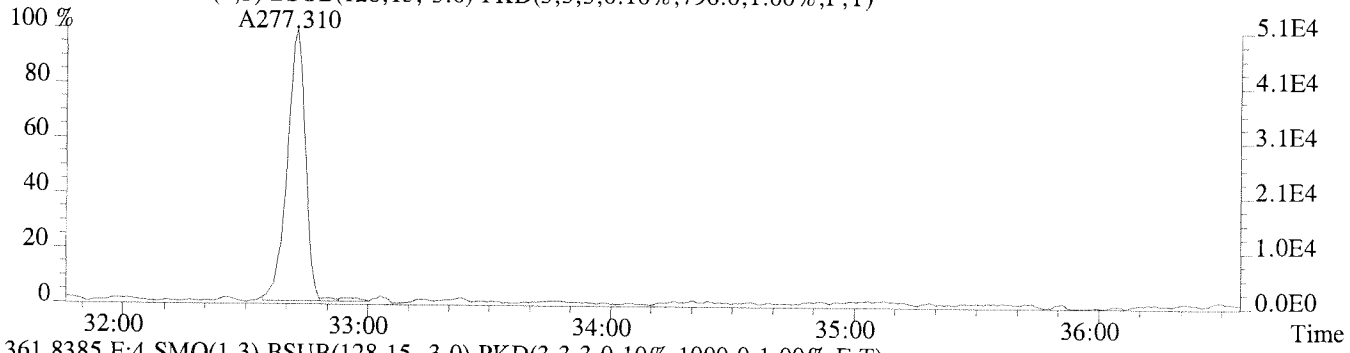
327.8775 F:5



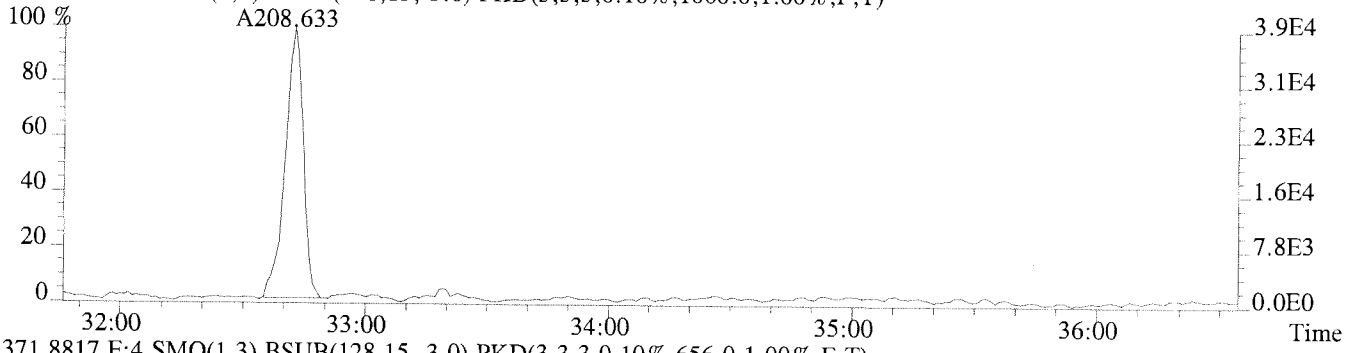
2.70e+04
- 2.56e+04
1.40e+03

File:U139142 #1-308 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

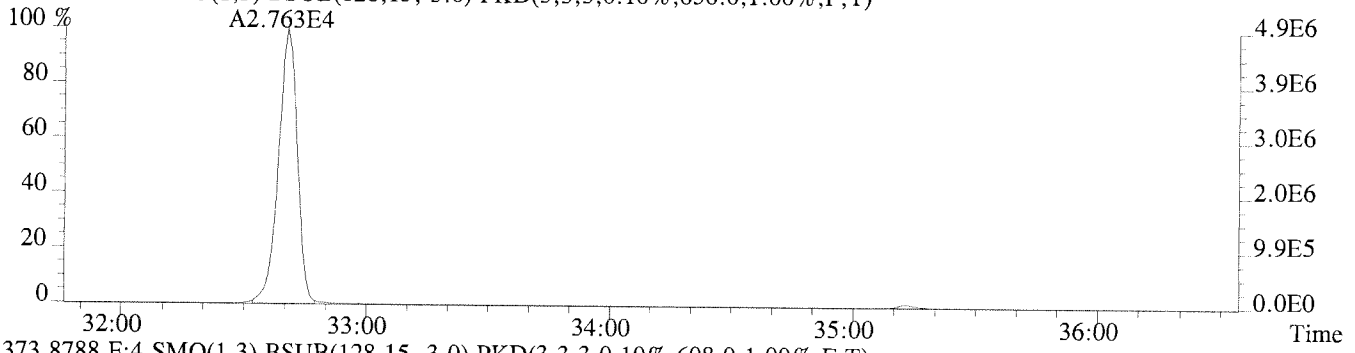
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)



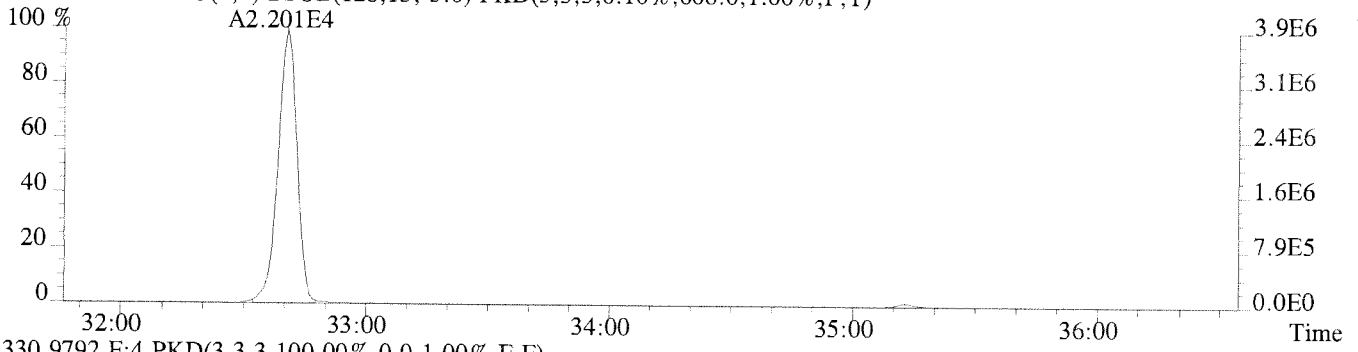
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)



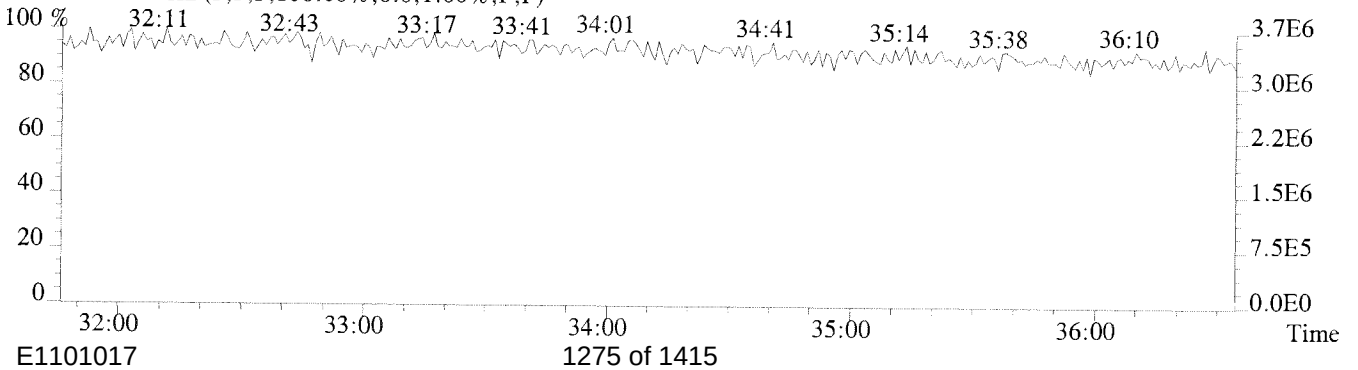
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,656.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,608.0,1.00%,F,T)

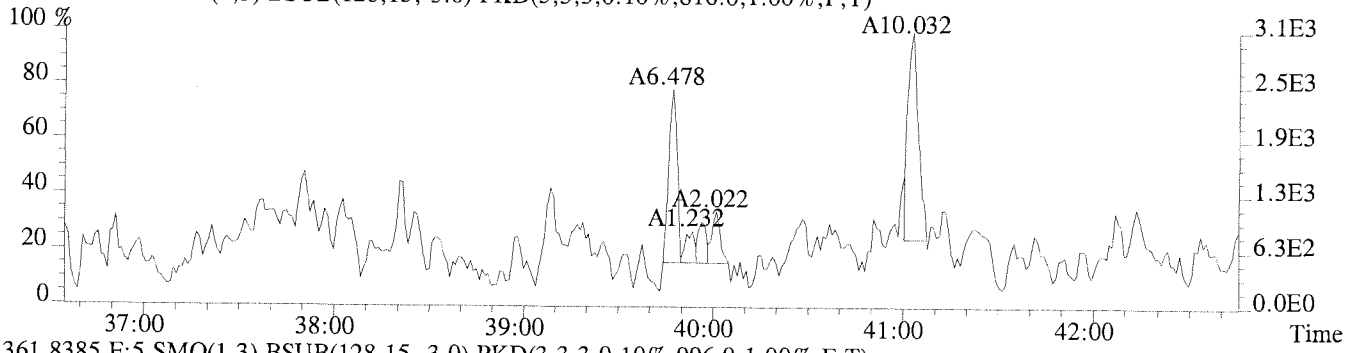


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

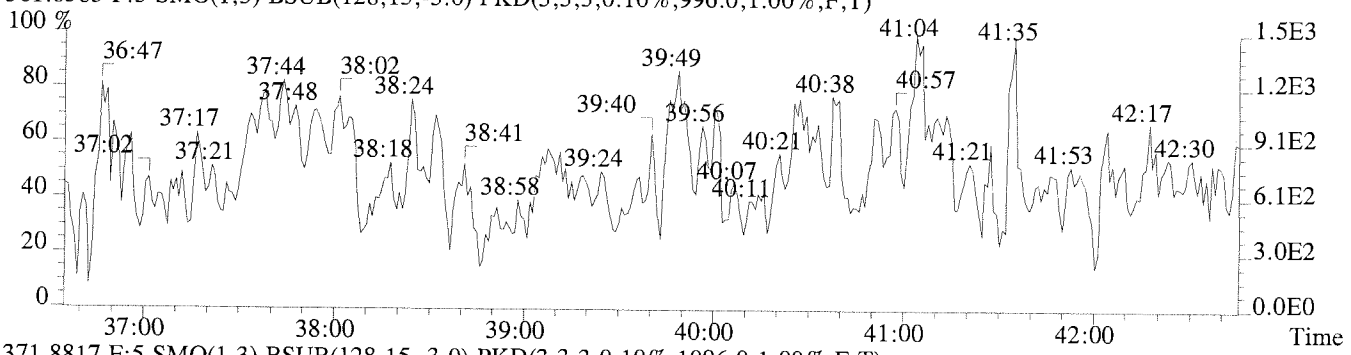


File:U139142 #1-395 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

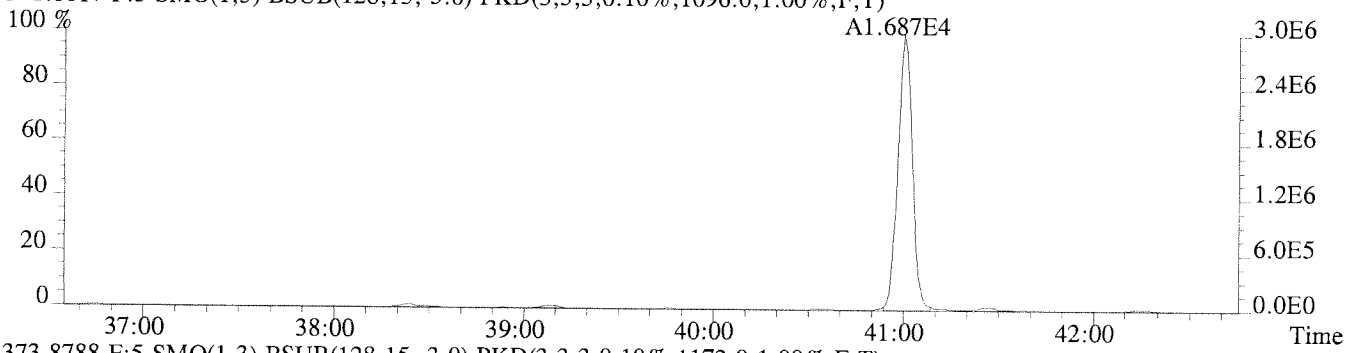
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,816.0,1.00%,F,T)



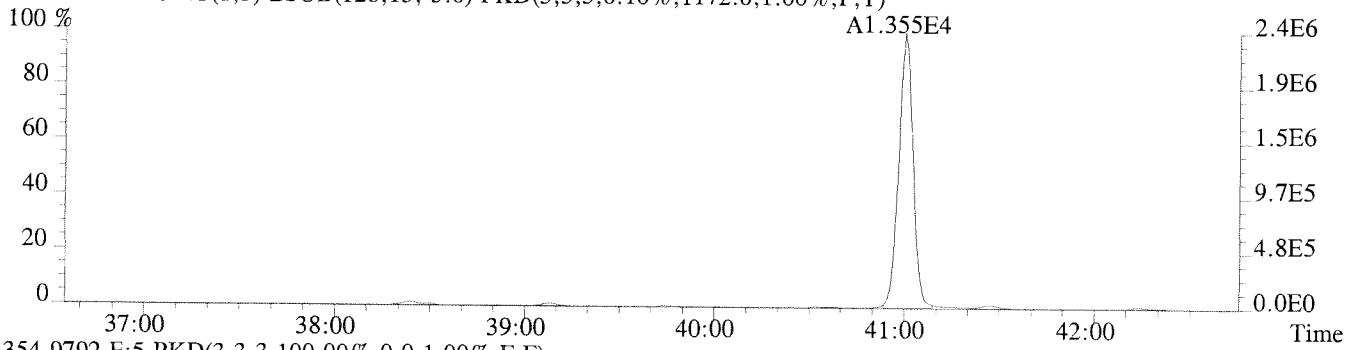
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,996.0,1.00%,F,T)



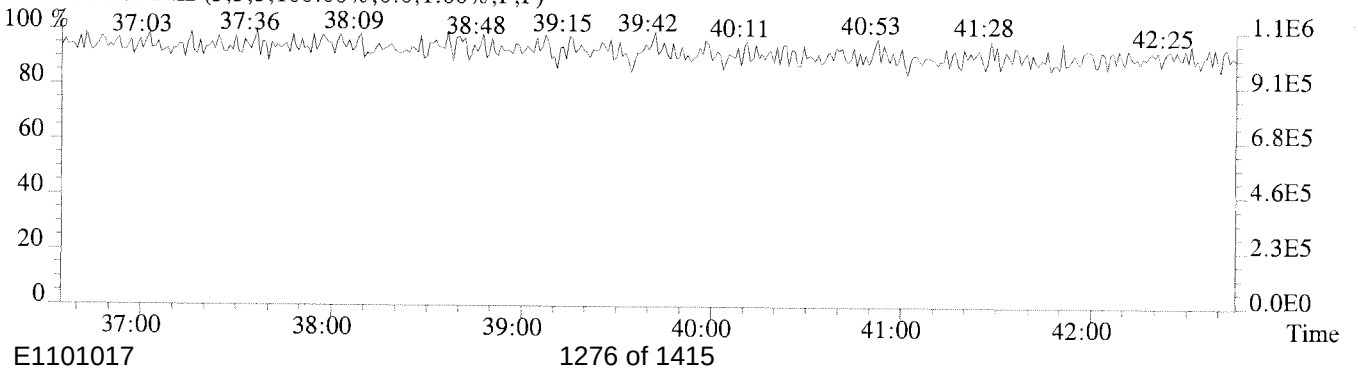
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1096.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1172.0,1.00%,F,T)

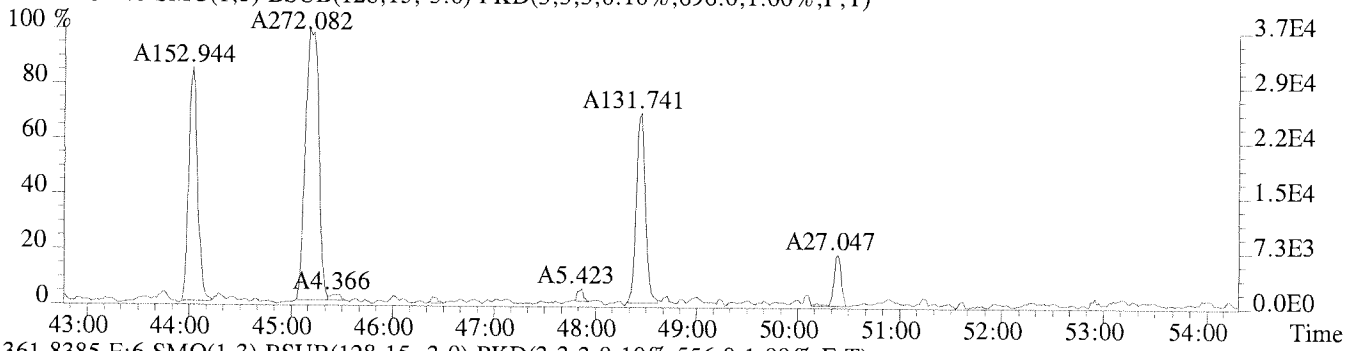


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

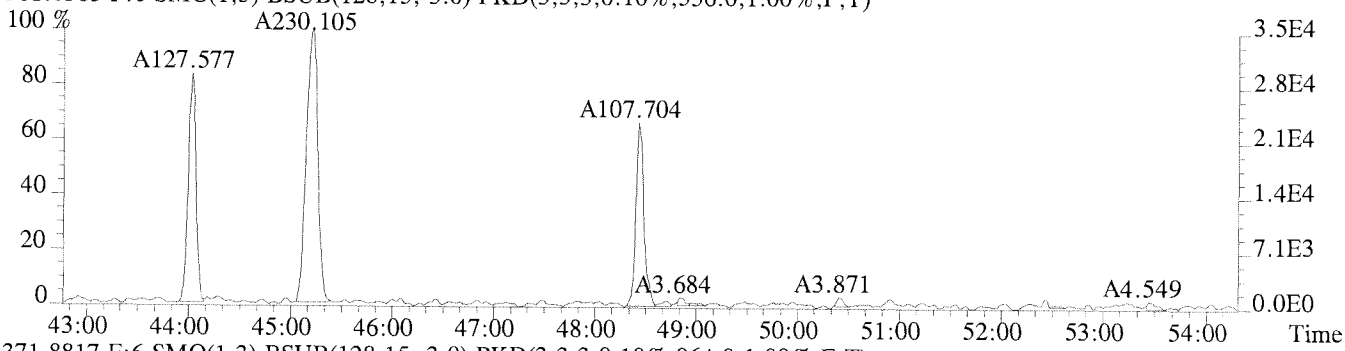


File:U139142 #1-572 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

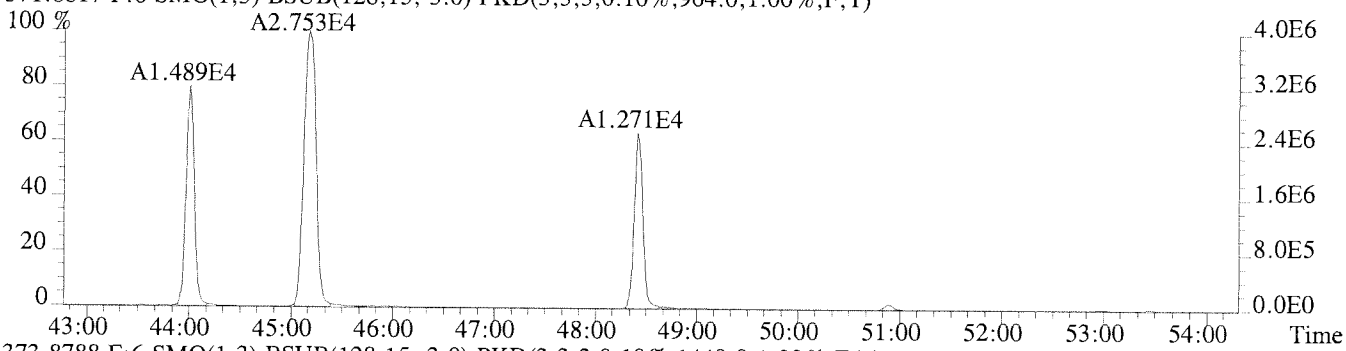
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,696.0,1.00%,F,T)



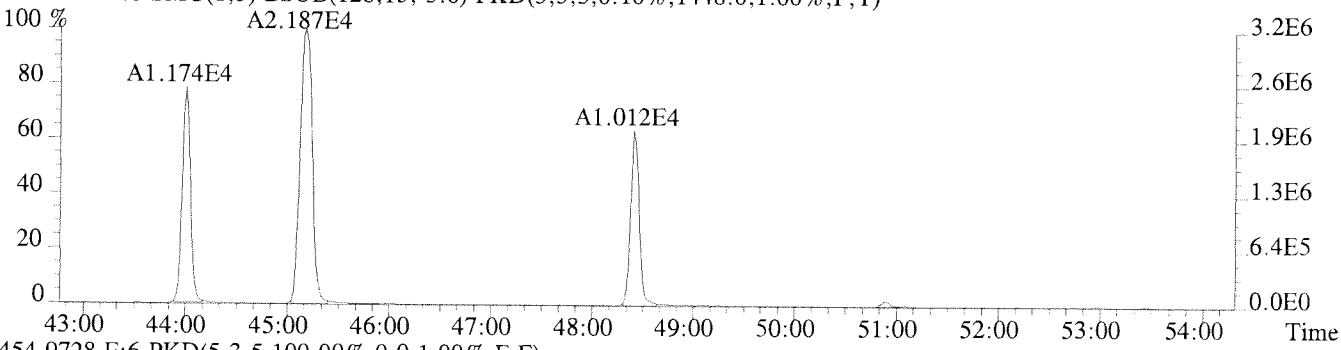
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,556.0,1.00%,F,T)



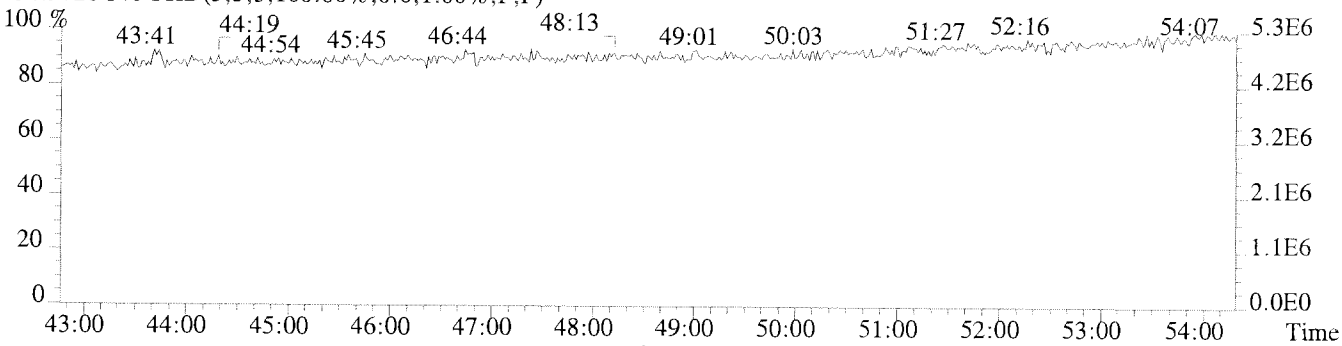
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1448.0,1.00%,F,T)

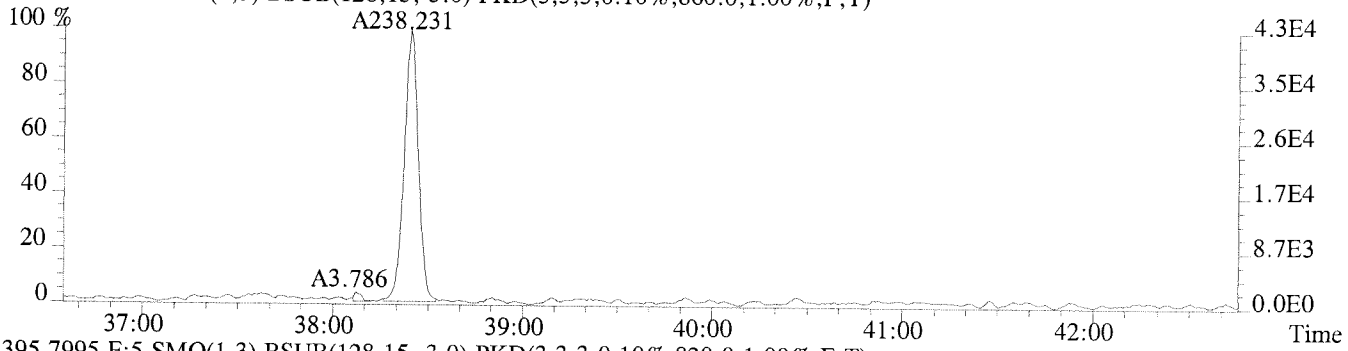


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

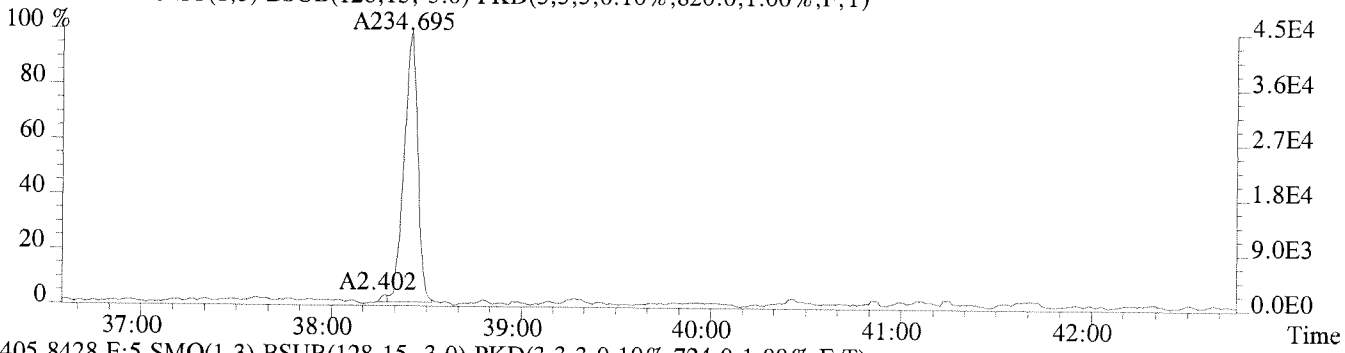


File:U139142 #1-395 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

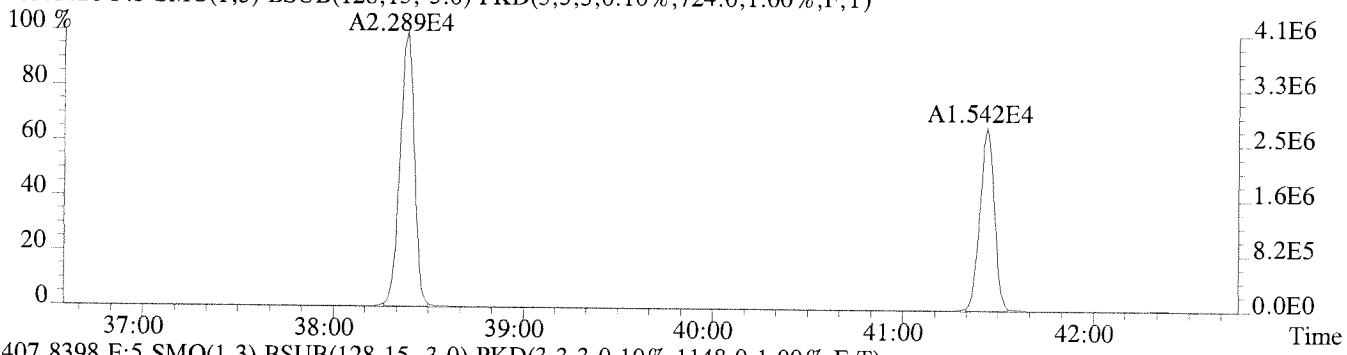
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)



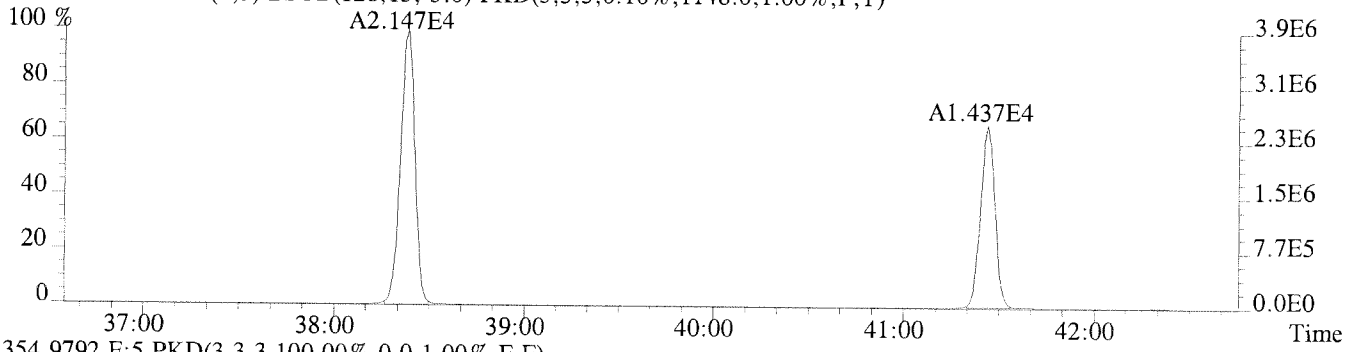
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



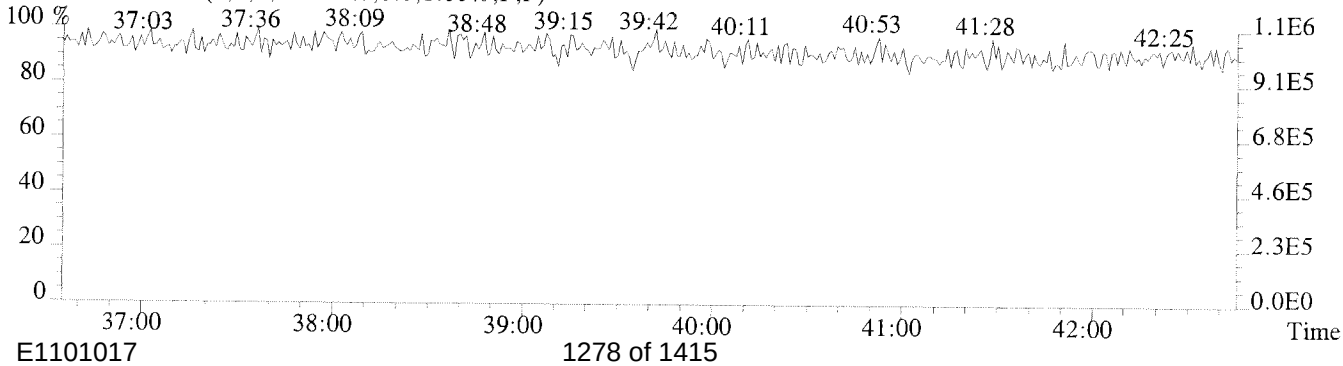
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1148.0,1.00%,F,T)

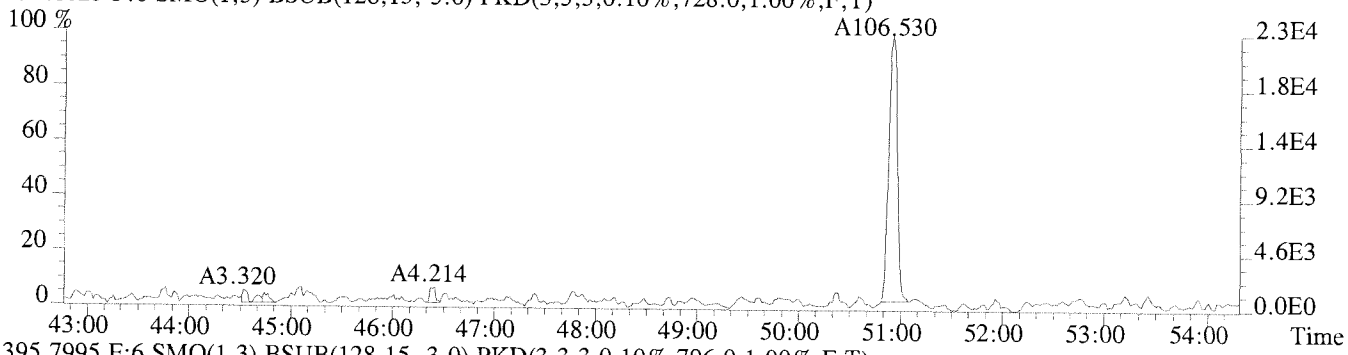


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

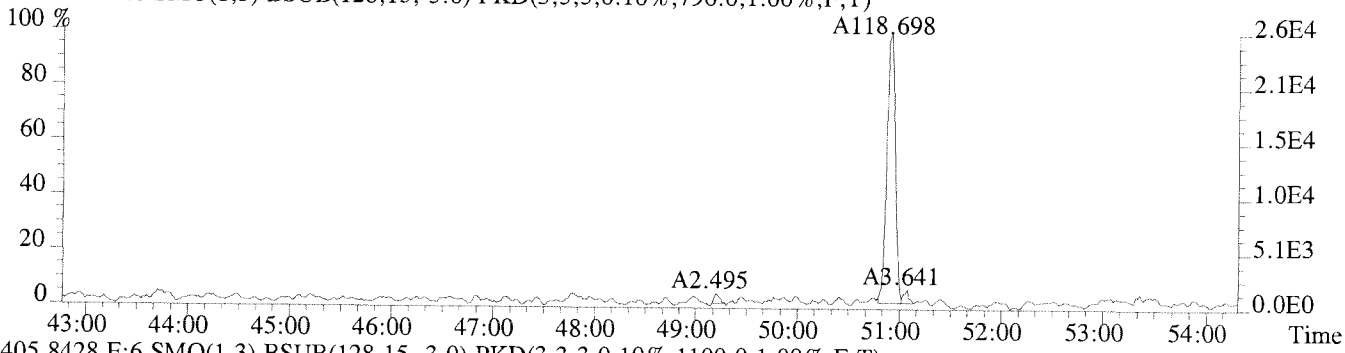


File:U139142 #1-572 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

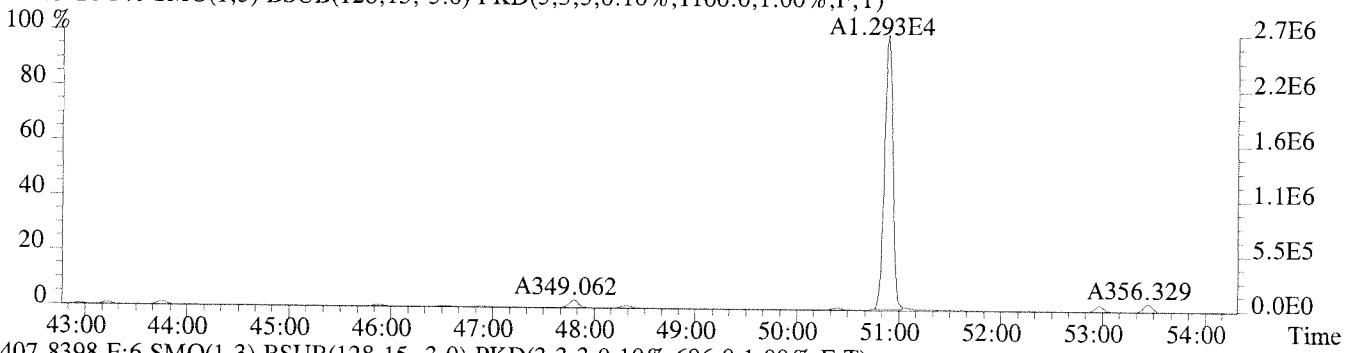
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,728.0,1.00%,F,T)



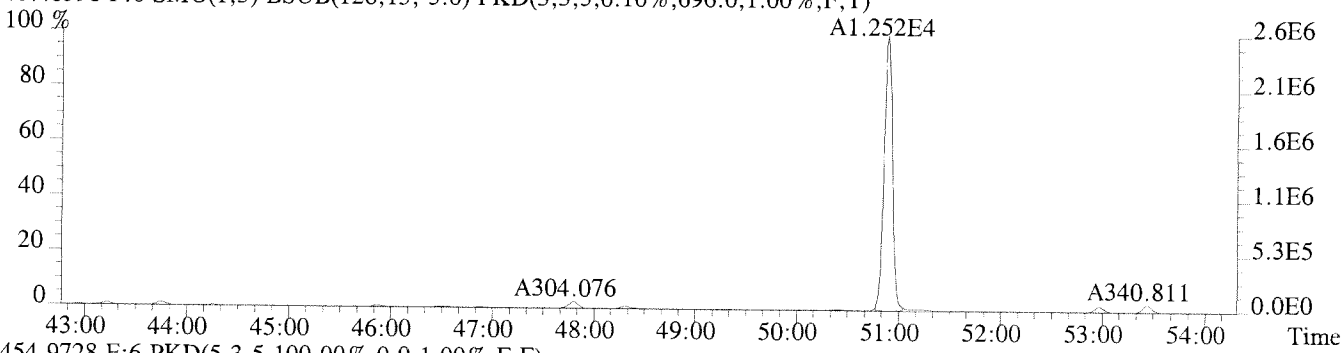
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)



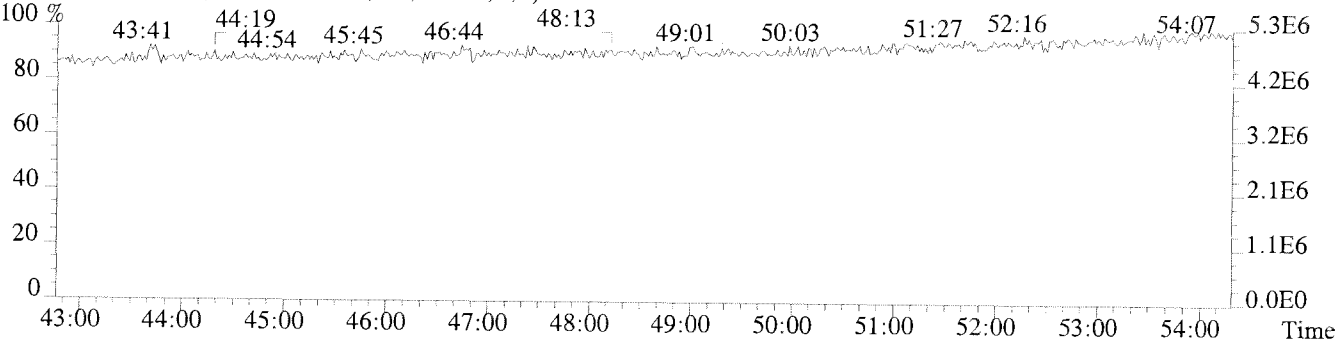
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1100.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,696.0,1.00%,F,T)

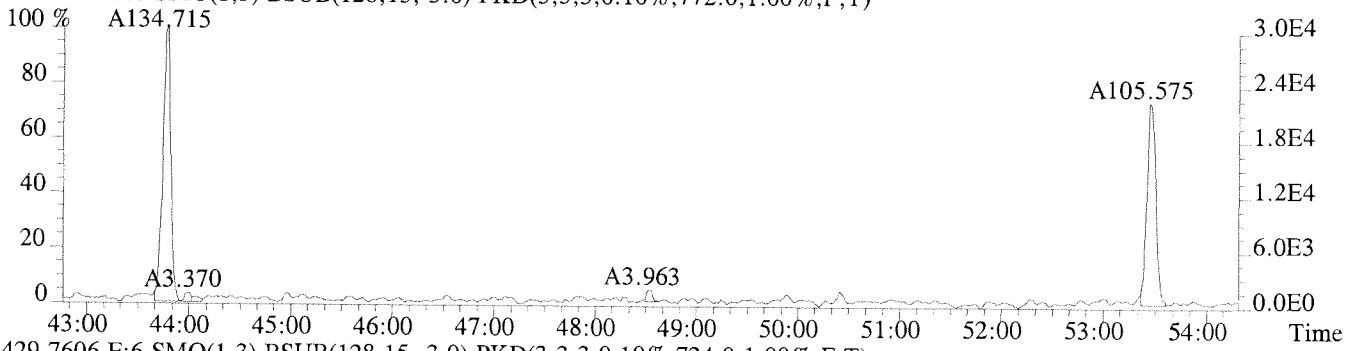


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

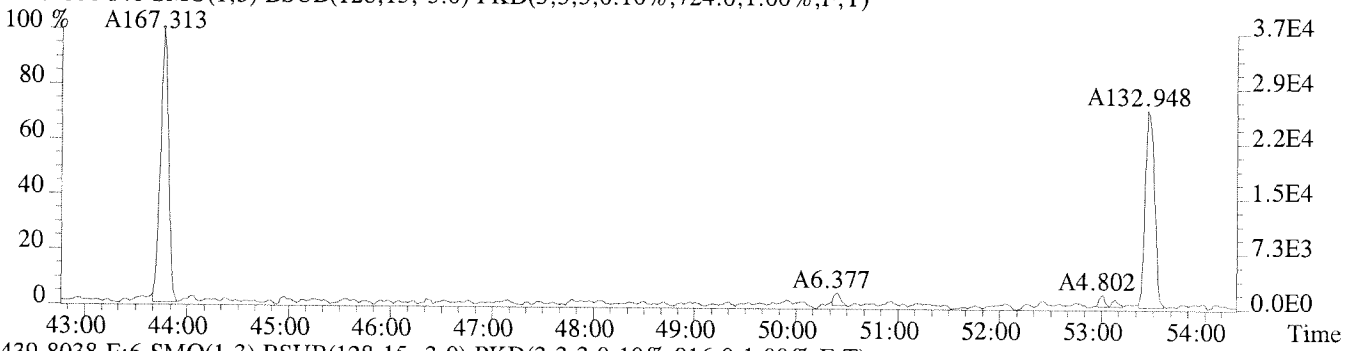


File:U139142 #1-572 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

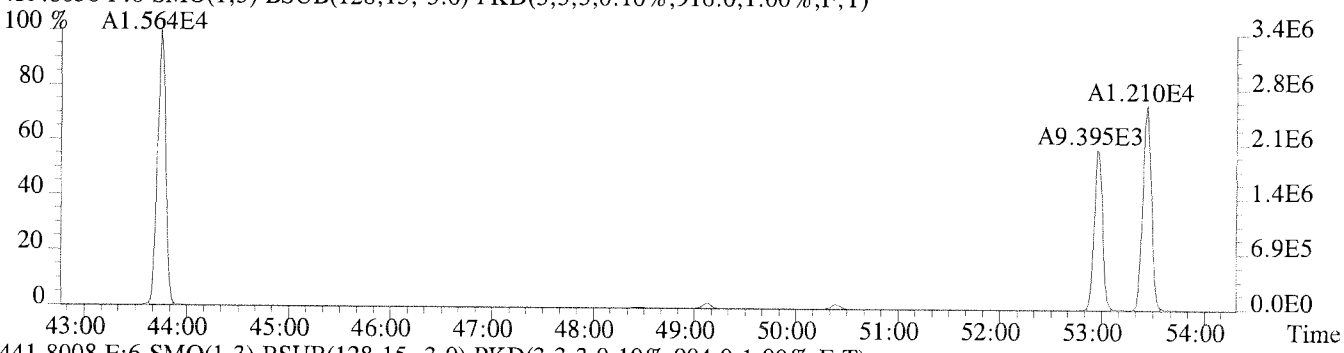
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



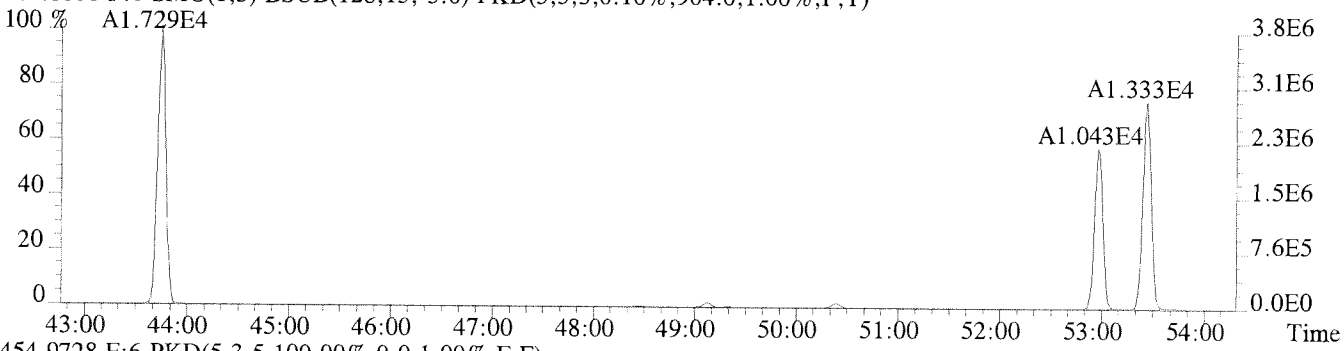
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



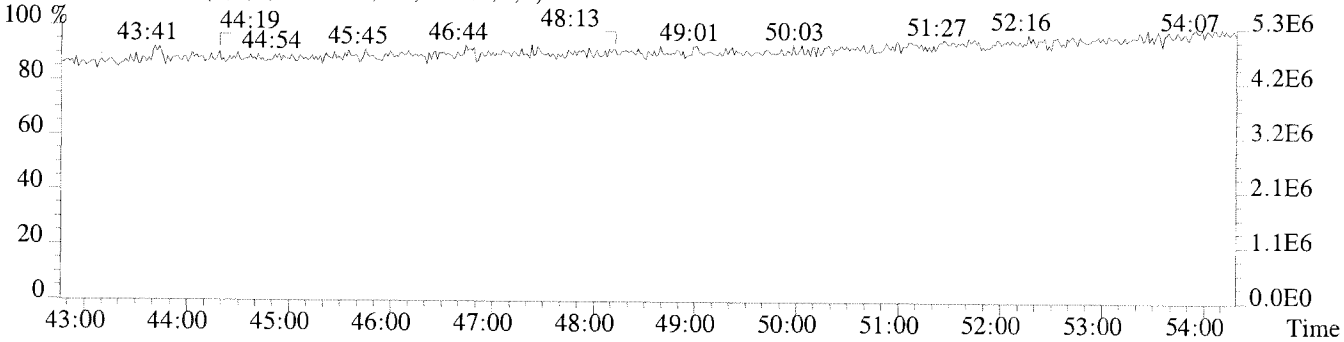
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,916.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)

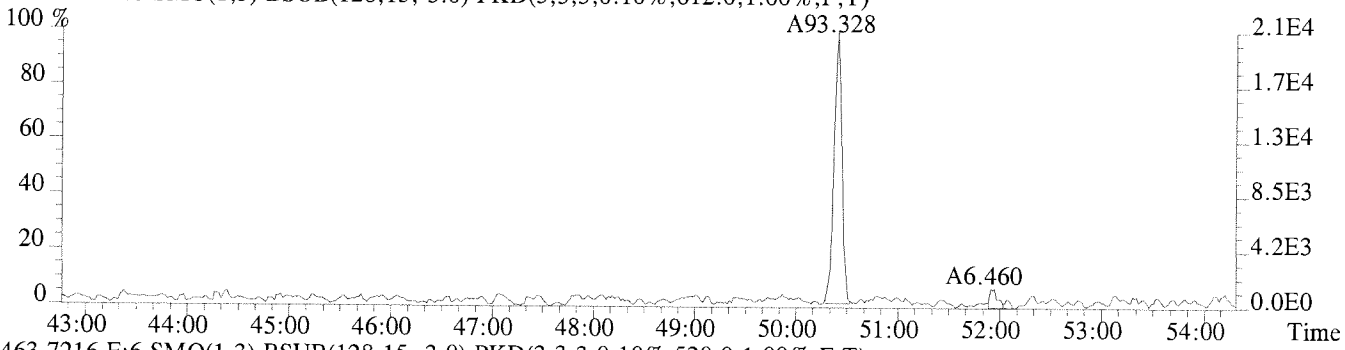


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

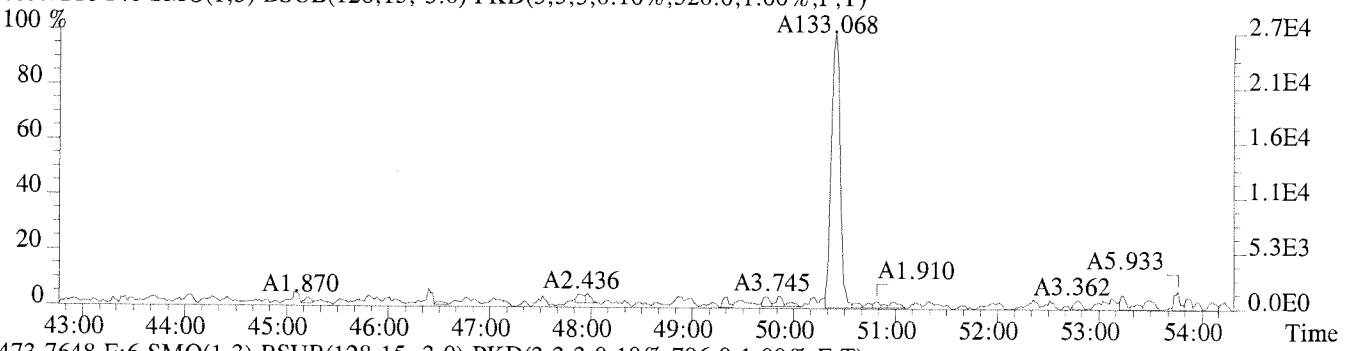


File:U139142 #1-572 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

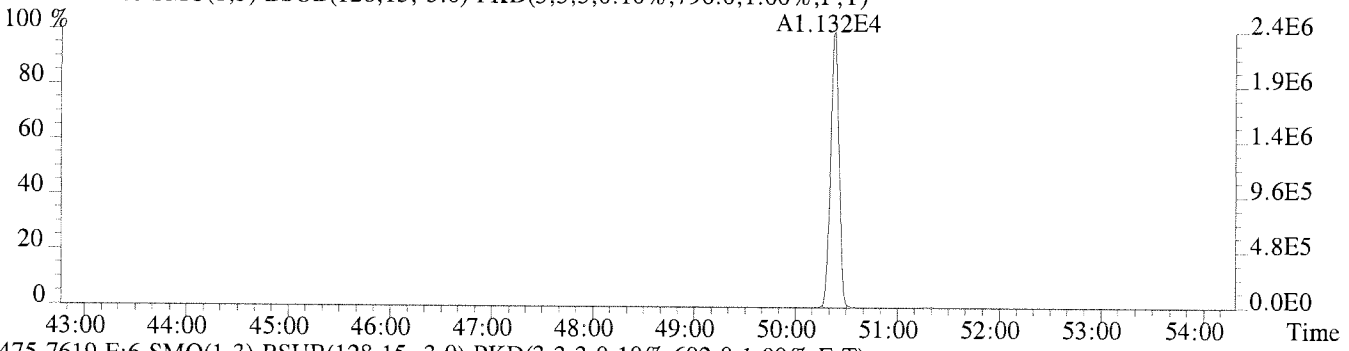
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,612.0,1.00%,F,T)



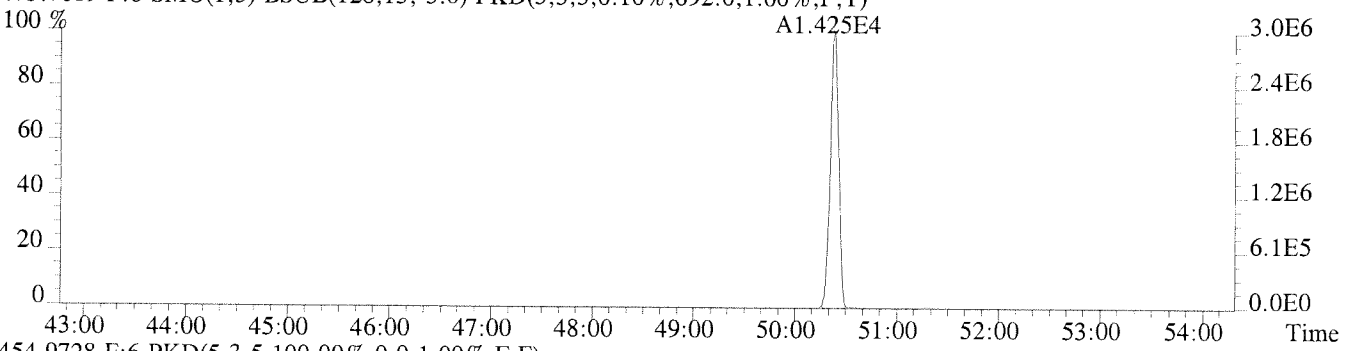
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,520.0,1.00%,F,T)



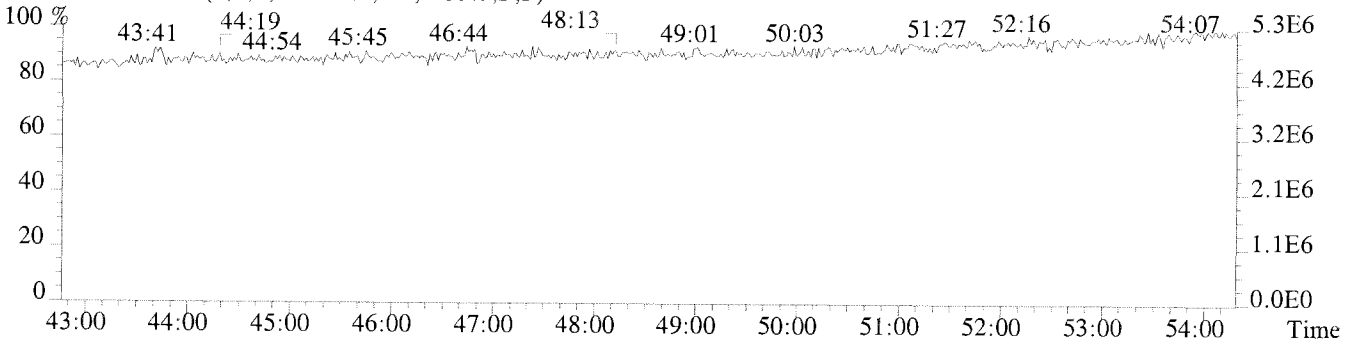
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,796.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,692.0,1.00%,F,T)

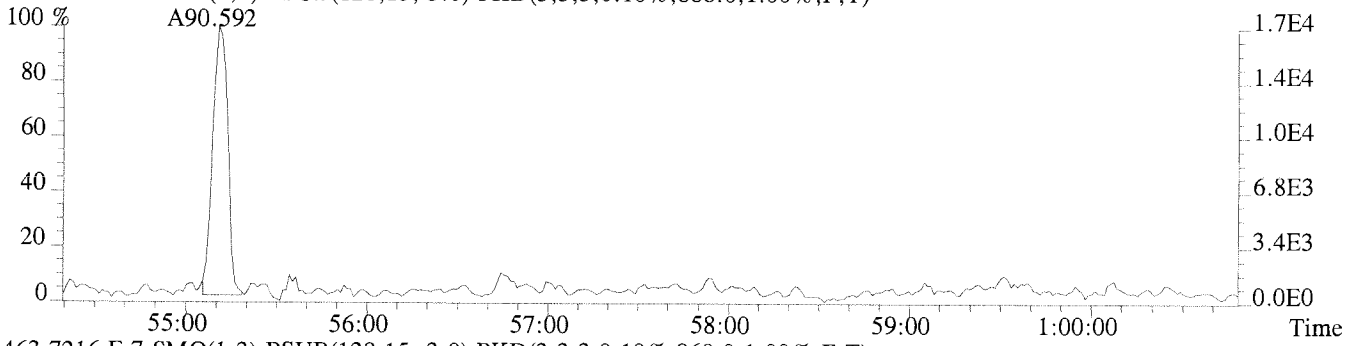


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

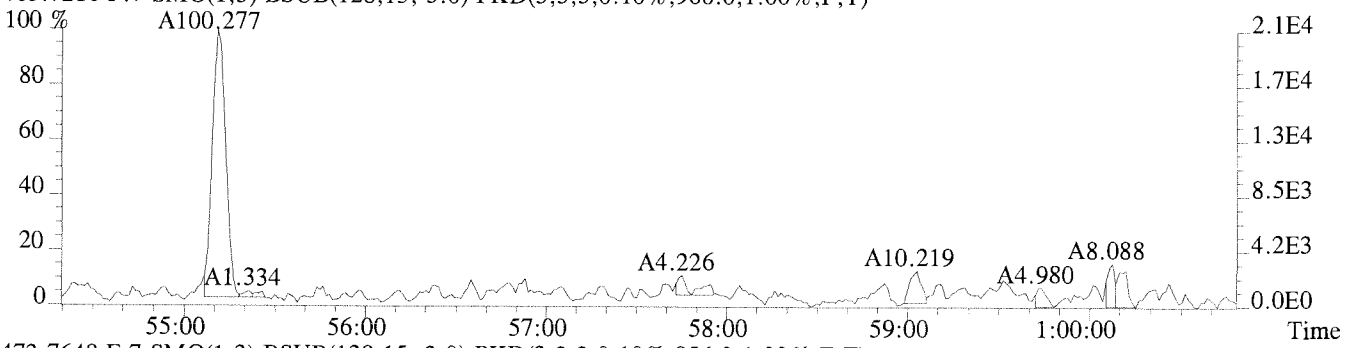


File:U139142 #1-366 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

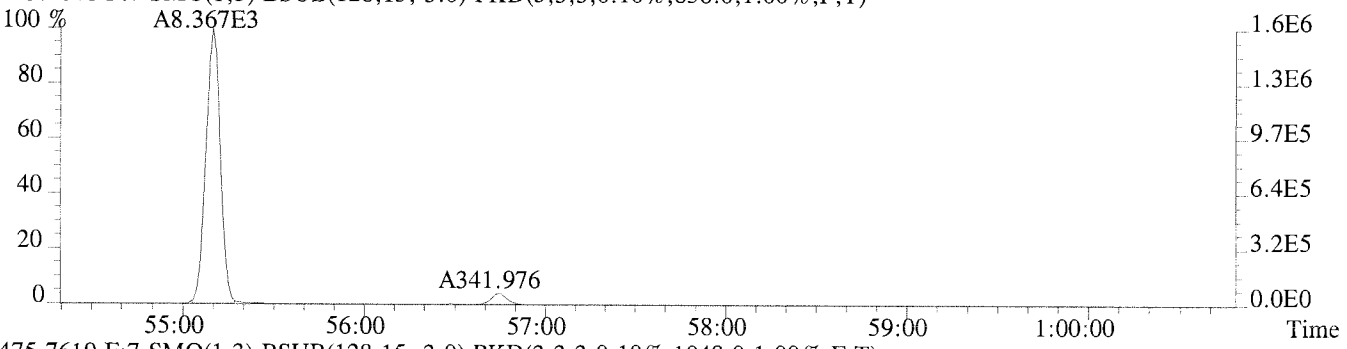
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



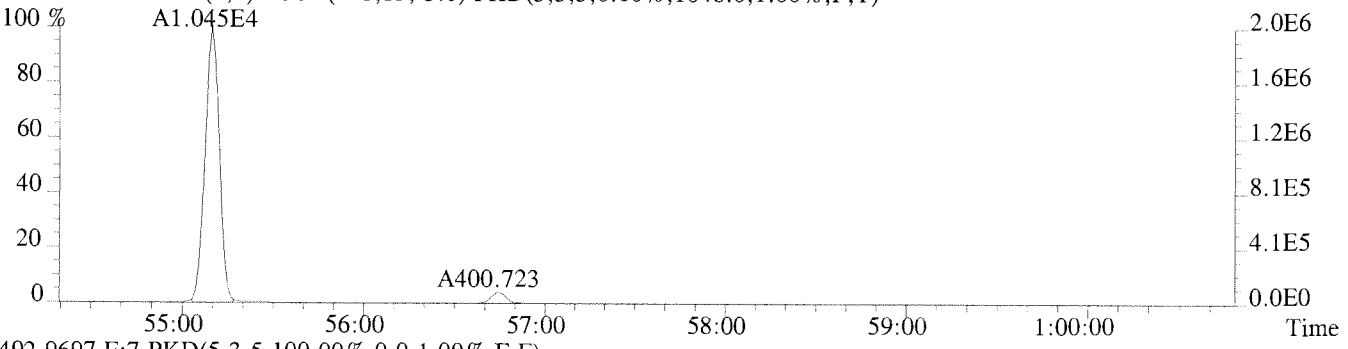
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



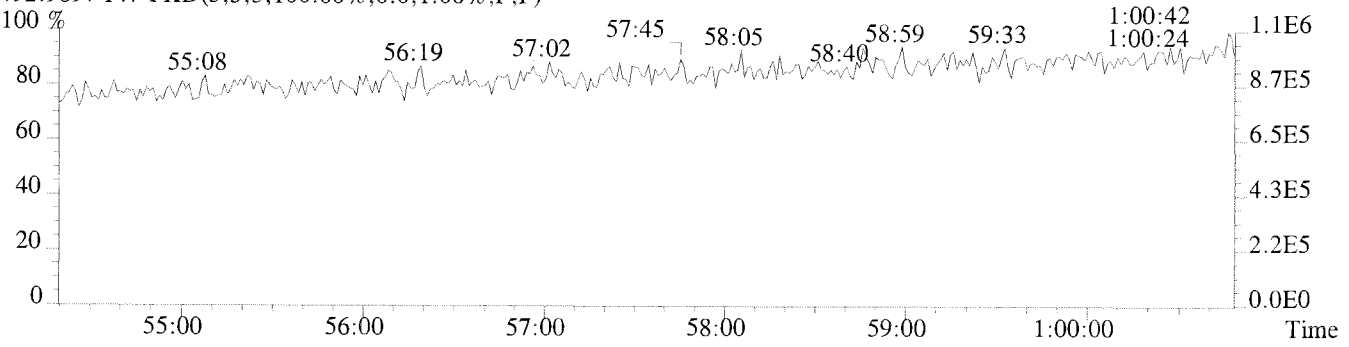
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,856.0,1.00%,F,T)



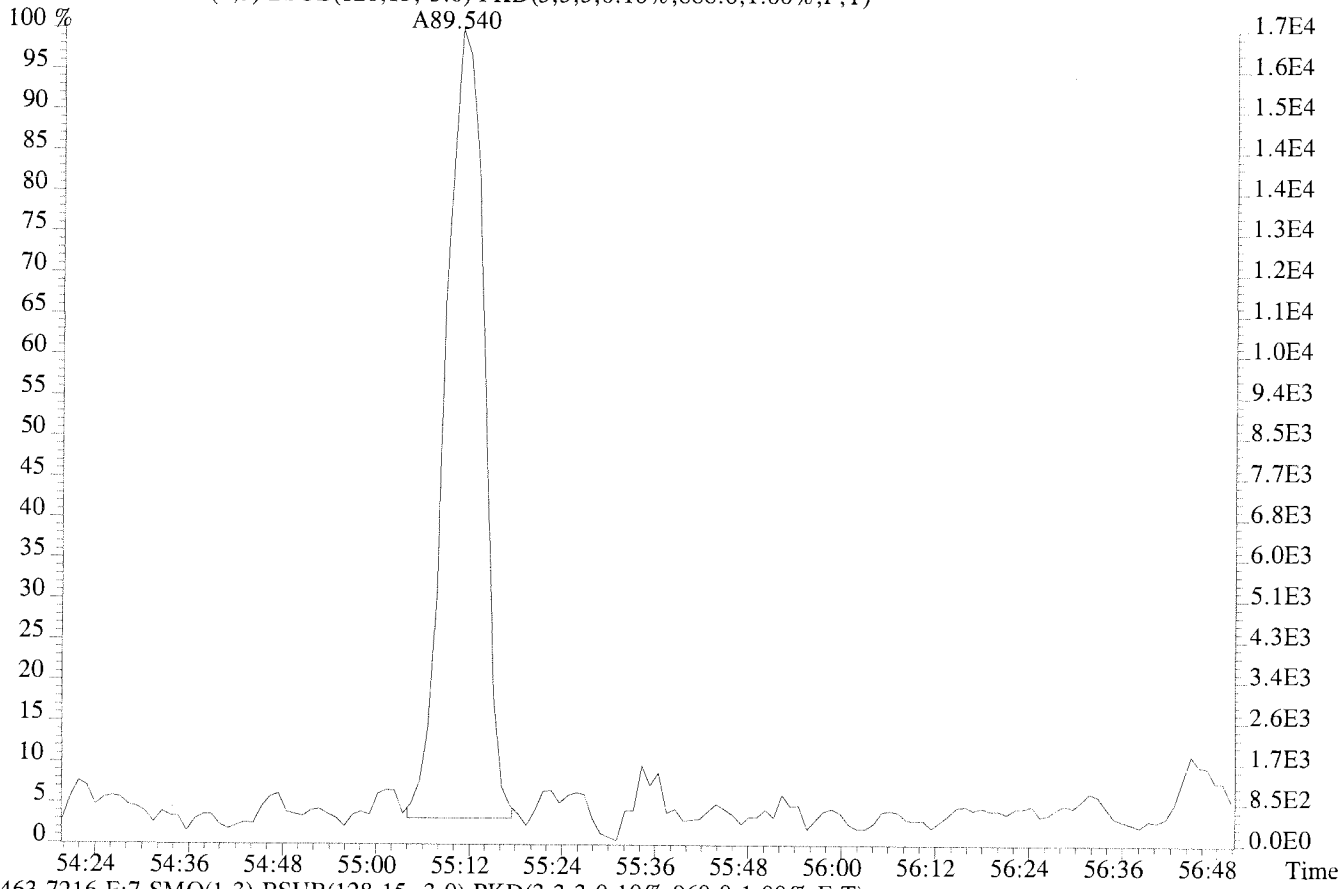
475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1048.0,1.00%,F,T)



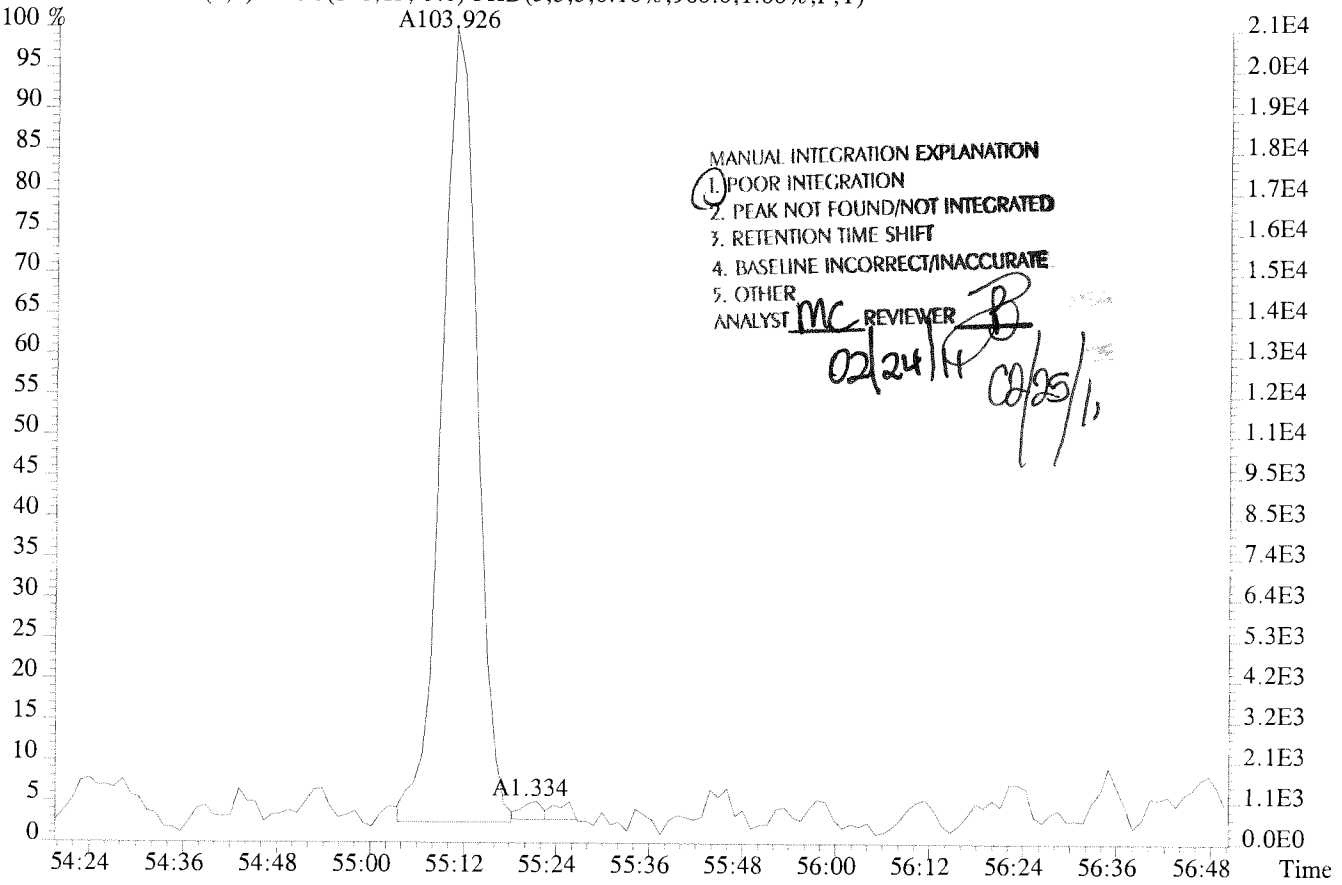
492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



File:U139142 #1-366 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



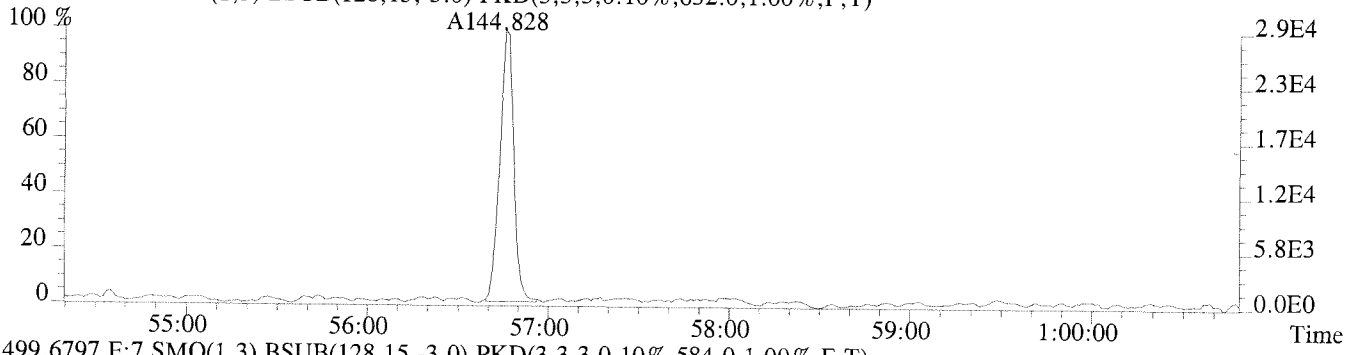
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



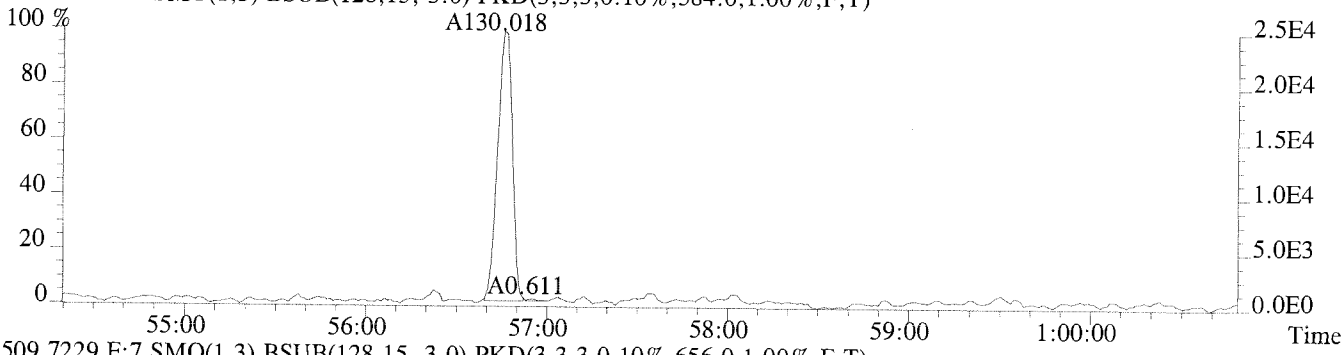
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/24/14 02/25/14

File:U139142 #1-366 Acq:23-FEB-2011 13:25:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS1

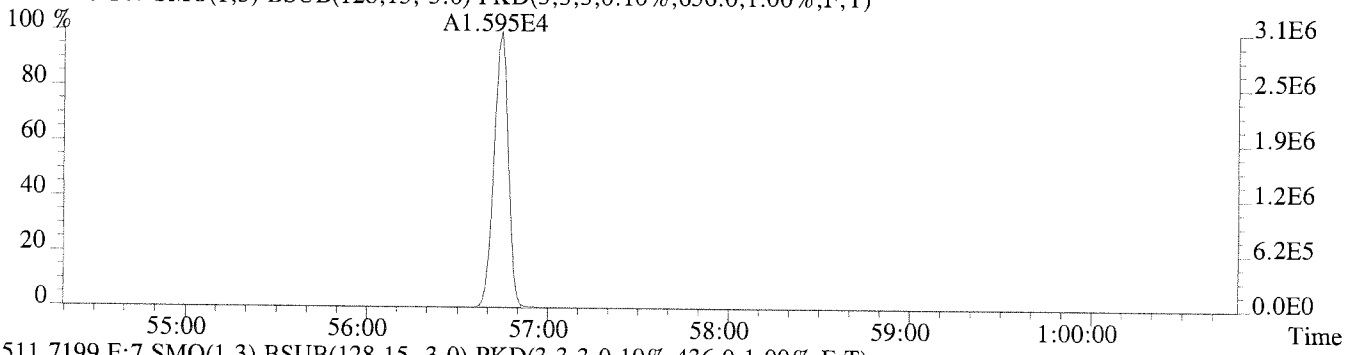
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,632.0,1.00%,F,T)



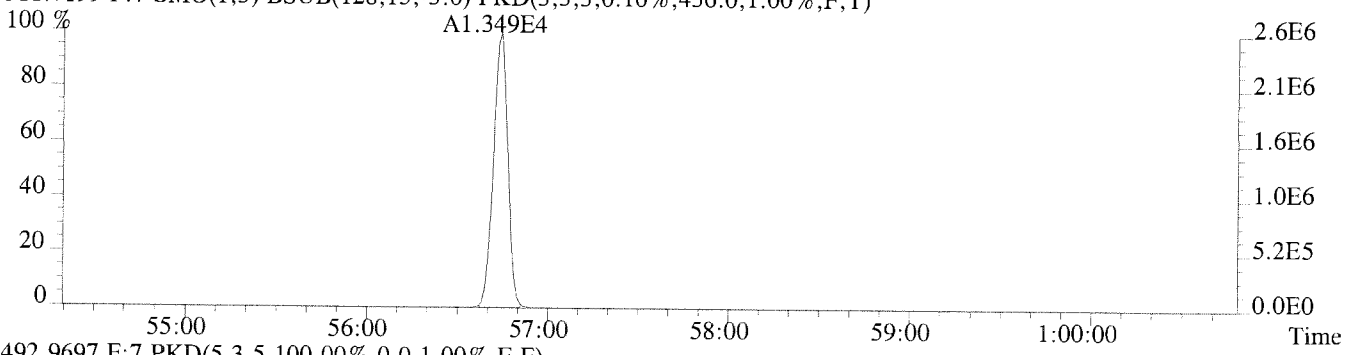
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,584.0,1.00%,F,T)



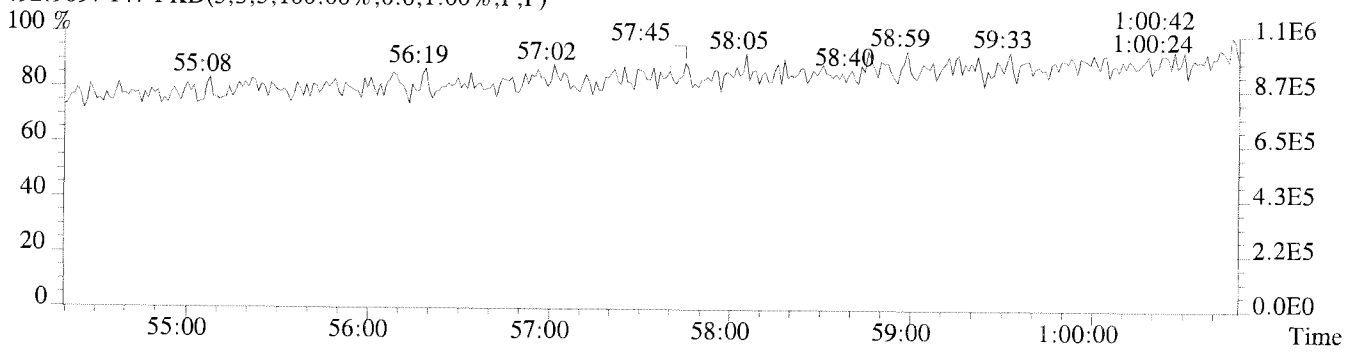
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,656.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,436.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL CS2

Run #2 Filename U139141 #1 Samp: 1 Inj: 1 Acquired: 23-FEB-11 11:58:54
Processed: 24-FEB-11 17:57:05 LAB. ID: ICAL CS2

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?	RRT
1	1	2-MoCB	13:01	3.101e+03	1.031e+03	3.01	yes	no	1.000
2	3	4-MoCB	15:13	3.023e+03	9.225e+02	3.28	yes	no	1.001
3	4	22'-DiCB	15:26	1.692e+03	1.176e+03	1.44	yes	no	1.001
4	15	44'-DiCB	21:21	1.701e+03	1.077e+03	1.58	yes	yes	1.001
5	19	22'6'-TrCB	18:32	9.720e+02	9.543e+02	1.02	yes	no	1.001
6	37	344'-TrCB	28:22	1.257e+03	1.201e+03	1.05	yes	no	1.001
7	54	22'66'-TeCB	21:36	1.018e+03	1.355e+03	0.75	yes	no	1.002
8	81	344'5-TeCB	35:05	8.158e+02	1.079e+03	0.76	yes	no	1.001
9	77	33'44'-TeCB	35:39	7.911e+02	1.045e+03	0.76	yes	no	1.000
10	104	22'466'-PeCB	27:03	1.551e+03	9.348e+02	1.66	yes	no	1.001
11	123	2'344'5-PeCB	37:35	1.055e+03	6.571e+02	1.61	yes	yes	1.000
12	118	23'44'5-PeCB	37:54	1.045e+03	6.757e+02	1.55	yes	yes	1.000
13	114	2344'5-PeCB	38:27	1.009e+03	6.298e+02	1.60	yes	yes	1.001
14	105	233'44'-PeCB	39:07	1.021e+03	6.391e+02	1.60	yes	yes	1.000
15	126	33'44'5-PeCB	42:12	8.407e+02	5.037e+02	1.67	yes	yes	1.000
16	155	22'44'66'-HxCB	32:41	1.325e+03	1.020e+03	1.30	yes	no	1.001
17	167	23'44'55'-HxCB	44:00	6.866e+02	5.464e+02	1.26	yes	no	1.000
18	156/7	233'44'5-HxCB	45:11	1.213e+03	1.040e+03	1.17	yes	no	1.000
19	169	33'44'55'-HxCB	48:25	5.040e+02	4.313e+02	1.17	yes	no	1.000
20	188	22'34'566'-HpCB	38:23	1.049e+03	9.483e+02	1.11	yes	no	1.001
21	189	233'44'55'-HpCB	50:54	5.108e+02	4.850e+02	1.05	yes	no	1.000
22	202	22'33'55'66'-OcCB	43:46	5.827e+02	6.301e+02	0.92	yes	no	1.001
23	205	233'44'55'6-OcCB	53:27	5.108e+02	5.786e+02	0.88	yes	no	1.001
24	208	22'33'4'55'66'-NoCB	50:24	4.381e+02	5.881e+02	0.74	yes	no	1.001
25	206	22'33'44'55'6-NoCB	55:11	3.510e+02	4.781e+02	0.73	yes	no	1.001
26	209	DeCB	56:44	6.880e+02	5.481e+02	1.26	yes	no	1.000
27	1L	13C-2-MoCB	13:01	5.943e+04	1.863e+04	3.19	yes	no	0.749
28	3L	13C-4-MoCB	15:12	5.571e+04	1.756e+04	3.17	yes	yes	0.874
29	4L	13C-22'-DiCB	15:25	3.128e+04	1.969e+04	1.59	yes	no	0.887
30	15L	13C-44'-DiCB	21:20	3.559e+04	2.278e+04	1.56	yes	no	1.227
31	19L	13C-22'6'-TrCB	18:31	2.012e+04	1.901e+04	1.06	yes	no	1.065
32	37L	13C-344'-TrCB	28:20	2.447e+04	2.309e+04	1.06	yes	no	1.085
33	54L	13C-22'66'-TeCB	21:34	2.189e+04	2.757e+04	0.79	yes	no	0.826
34	81L	13C-344'5-TeCB	35:03	1.694e+04	2.161e+04	0.78	yes	no	1.342
35	77L	13C-33'44'-TeCB	35:38	1.732e+04	2.206e+04	0.79	yes	no	1.364
36	104L	13C-22'466'-PeCB	27:02	2.950e+04	1.898e+04	1.55	yes	no	0.821
37	123L	13C-2'344'5-PeCB	37:35	2.059e+04	1.292e+04	1.59	yes	no	1.141
38	118L	13C-23'44'5-PeCB	37:53	2.147e+04	1.300e+04	1.65	yes	no	1.150
39	114L	13C-2344'5-PeCB	38:25	2.193e+04	1.373e+04	1.60	yes	no	1.166
40	105L	13C-233'44'-PeCB	39:06	2.059e+04	1.278e+04	1.61	yes	no	1.187
41	126L	13C-33'44'5-PeCB	42:11	1.794e+04	1.125e+04	1.59	yes	no	1.281
42	155L	13C-22'44'66'-HxCB	32:40	2.639e+04	2.074e+04	1.27	yes	no	0.797
43	167L	13C-23'44'55'-HxCB	43:59	1.359e+04	1.031e+04	1.32	yes	no	1.073
44	156/7	13C-233'44'5'-HxCB	45:10	2.514e+04	1.968e+04	1.28	yes	no	1.102
45	169L	13C-33'44'55'-HxCB	48:24	1.149e+04	8.955e+03	1.28	yes	no	1.181
46	188L	13C-22'34'566'-HpCB	38:21	2.139e+04	1.987e+04	1.08	yes	no	0.724
47	189L	13C-233'44'55'-HpCB	50:53	1.193e+04	1.134e+04	1.05	yes	no	0.961
48	202L	13C-22'33'55'66'-OcCB	43:44	1.376e+04	1.522e+04	0.90	yes	no	0.826
49	205L	13C-233'44'55'6-OcCB	53:25	1.163e+04	1.293e+04	0.90	yes	no	1.009
50	208L	13C-22'33'4'55'66'-NoCB	50:22	1.097e+04	1.373e+04	0.80	yes	no	0.951
51	206L	13C-22'33'44'55'6-NoCB	55:09	7.899e+03	9.836e+03	0.80	yes	no	1.042
52	209L	13C-DeCB	56:43	1.484e+04	1.255e+04	1.18	yes	no	1.071

53	28L	13C-244'-TrCB	24:18	3.064e+04	2.949e+04	1.04	yes	no	0.930
54	111L	13C-233'55'-PeCB	35:35	2.603e+04	1.646e+04	1.58	yes	no	1.080
55	178L	13C-22'33'55'6-HpCB	41:26	1.500e+04	1.358e+04	1.10	yes	no	1.011
56	9L	13C-2,5-DiCB	17:23	3.909e+04	2.481e+04	1.58	yes	no	*
57	52L	13C-22'55'-TeCB	26:07	1.924e+04	2.426e+04	0.79	yes	no	*
58	101L	13C-22'4'55'-PeCB	32:56	2.075e+04	1.310e+04	1.58	yes	no	*
59	138L	13C-22'3'44'5'-HxCB	40:59	1.581e+04	1.245e+04	1.27	yes	no	*
60	194L	13C-22'33'44'55'-OcCB	52:57	8.899e+03	9.924e+03	0.90	yes	no	*

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL CS2

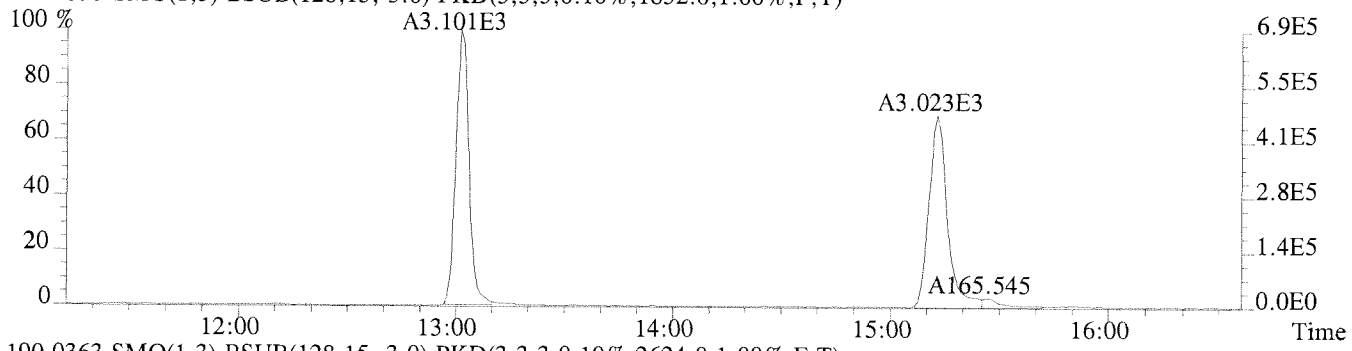
Run #2 Filename U139141 Samp: 1 Inj: 1 Acquired: 23-FEB-11 11:58:54
Processed: 24-FEB-11 17:57:051 LAB. ID: ICAL CS2

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	6.88e+05	1.83e+03	3.8e+02	2.28e+05	2.62e+03	8.7e+01
2	4-MoCB	4.82e+05	1.83e+03	2.6e+02	1.49e+05	2.62e+03	5.7e+01
3	22'-DiCB	3.08e+05	4.06e+03	7.6e+01	2.08e+05	8.46e+03	2.5e+01
4	44'-DiCB	2.39e+05	3.86e+03	6.2e+01	1.60e+05	6.78e+03	2.4e+01
5	22'6'-TrCB	1.78e+05	1.35e+03	1.3e+02	1.71e+05	1.00e+03	1.7e+02
6	344'-TrCB	1.64e+05	1.22e+03	1.3e+02	1.60e+05	1.24e+03	1.3e+02
7	22'66'-TeCB	1.67e+05	1.07e+03	1.6e+02	2.23e+05	1.03e+03	2.2e+02
8	344'5-TeCB	1.23e+05	8.88e+02	1.4e+02	1.64e+05	1.05e+03	1.6e+02
9	33'44'-TeCB	1.05e+05	8.88e+02	1.2e+02	1.38e+05	1.05e+03	1.3e+02
10	22'466'-PeCB	2.46e+05	6.96e+02	3.5e+02	1.46e+05	1.06e+03	1.4e+02
11	2'344'5-PeCB	1.83e+05	1.86e+03	9.8e+01	1.09e+05	2.21e+03	4.9e+01
12	23'44'5-PeCB	1.62e+05	1.86e+03	8.7e+01	1.07e+05	2.21e+03	4.8e+01
13	2344'5-PeCB	1.73e+05	1.86e+03	9.3e+01	1.06e+05	2.21e+03	4.8e+01
14	233'44'-PeCB	1.64e+05	1.86e+03	8.8e+01	1.05e+05	2.21e+03	4.7e+01
15	33'44'5-PeCB	1.24e+05	1.86e+03	6.7e+01	7.85e+04	2.21e+03	3.5e+01
16	22'44'66'-HxCB	2.32e+05	7.60e+02	3.1e+02	1.81e+05	8.04e+02	2.2e+02
17	23'44'55'-HxCB	1.47e+05	7.72e+02	1.9e+02	1.14e+05	7.24e+02	1.6e+02
18	233'44'5-HxCB	1.75e+05	7.72e+02	2.3e+02	1.52e+05	7.24e+02	2.1e+02
19	33'44'55'-HxCB	1.05e+05	7.72e+02	1.4e+02	7.84e+04	7.24e+02	1.1e+02
20	22'34'566'-HpCB	1.99e+05	8.52e+02	2.3e+02	1.62e+05	6.12e+02	2.6e+02
21	233'44'55'-HpCB	1.05e+05	6.96e+02	1.5e+02	9.77e+04	6.96e+02	1.4e+02
22	22'33'55'66'-OcCB	1.20e+05	6.44e+02	1.9e+02	1.33e+05	8.20e+02	1.6e+02
23	233'44'55'6-OcCB	1.11e+05	6.44e+02	1.7e+02	1.25e+05	8.20e+02	1.5e+02
24	22'33'4'55'66'-NoCB	9.29e+04	6.80e+02	1.4e+02	1.30e+05	7.80e+02	1.7e+02
25	22'33'44'55'6-NoCB	6.43e+04	7.08e+02	9.1e+01	8.33e+04	1.35e+03	6.2e+01
26	DeCB	1.30e+05	7.00e+02	1.9e+02	1.00e+05	7.20e+02	1.4e+02
27	13C-2-MoCB	1.30e+07	1.61e+03	8.1e+03	4.08e+06	5.00e+04	8.2e+01
28	13C-4-MoCB	9.05e+06	1.61e+03	5.6e+03	2.88e+06	5.00e+04	5.8e+01
29	13C-22'-DiCB	5.79e+06	5.74e+03	1.0e+03	3.61e+06	2.14e+03	1.7e+03
30	13C-44'-DiCB	4.95e+06	7.60e+03	6.5e+02	3.15e+06	1.82e+03	1.7e+03
31	13C-22'6'-TrCB	3.59e+06	2.19e+04	1.6e+02	3.39e+06	1.10e+04	3.1e+02
32	13C-344'-TrCB	3.07e+06	1.66e+04	1.8e+02	2.90e+06	1.07e+04	2.7e+02
33	13C-22'66'-TeCB	3.70e+06	2.46e+03	1.5e+03	4.66e+06	1.56e+03	3.0e+03
34	13C-344'5-TeCB	2.46e+06	1.46e+03	1.7e+03	3.14e+06	2.03e+03	1.5e+03
35	13C-33'44'-TeCB	2.37e+06	1.46e+03	1.6e+03	2.98e+06	2.03e+03	1.5e+03
36	13C-22'466'-PeCB	4.60e+06	1.01e+03	4.6e+03	2.98e+06	7.04e+02	4.2e+03
37	13C-2'344'5-PeCB	3.41e+06	2.08e+03	1.6e+03	2.13e+06	4.28e+03	5.0e+02
38	13C-23'44'5-PeCB	3.46e+06	2.08e+03	1.7e+03	2.16e+06	4.28e+03	5.1e+02
39	13C-2344'5-PeCB	3.58e+06	2.08e+03	1.7e+03	2.26e+06	4.28e+03	5.3e+02
40	13C-233'44'-PeCB	3.32e+06	2.08e+03	1.6e+03	2.08e+06	4.28e+03	4.9e+02
41	13C-33'44'5-PeCB	2.68e+06	2.08e+03	1.3e+03	1.67e+06	4.28e+03	3.9e+02
42	13C-22'44'66'-HxCB	4.56e+06	1.15e+03	4.0e+03	3.57e+06	9.52e+02	3.7e+03
43	13C-23'44'55'-HxCB	2.88e+06	1.39e+03	2.1e+03	2.17e+06	1.44e+03	1.5e+03
44	13C-233'44'5'-HxCB	3.63e+06	1.39e+03	2.6e+03	2.86e+06	1.44e+03	2.0e+03
45	13C-33'44'55'-HxCB	2.26e+06	1.39e+03	1.6e+03	1.74e+06	1.44e+03	1.2e+03
46	13C-22'34'566'-HpCB	3.72e+06	7.64e+02	4.9e+03	3.50e+06	5.48e+02	6.4e+03
47	13C-233'44'55'-HpCB	2.50e+06	1.22e+03	2.0e+03	2.36e+06	1.01e+03	2.3e+03
48	13C-22'33'55'66'-OcCB	2.94e+06	6.08e+02	4.8e+03	3.30e+06	5.88e+02	5.6e+03
49	13C-233'44'55'6-OcCB	2.48e+06	6.08e+02	4.1e+03	2.79e+06	5.88e+02	4.7e+03
50	13C-22'33'4'55'66'-NoCB	2.37e+06	8.40e+02	2.8e+03	2.95e+06	7.32e+02	4.0e+03
51	13C-22'33'44'55'6-NoCB	1.50e+06	1.08e+03	1.4e+03	1.88e+06	8.80e+02	2.1e+03
52	13C-DeCB	2.85e+06	6.16e+02	4.6e+03	2.41e+06	6.16e+02	3.9e+03

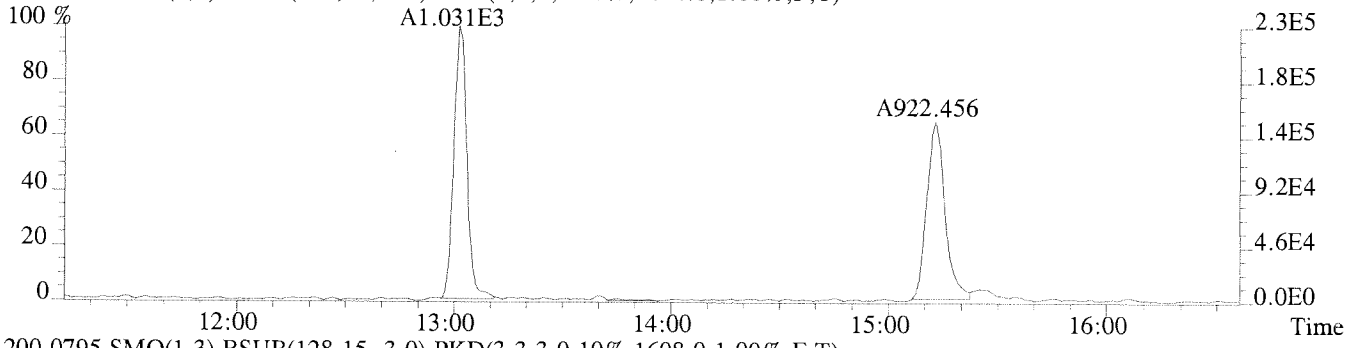
13C-244'-TrCB	4.30e+06	1.66e+04	2.6e+02	4.12e+06	1.07e+04	3.8e+02
13C-233'55'-PeCB	4.40e+06	1.67e+03	2.6e+03	2.83e+06	2.66e+03	1.1e+03
13C-22'33'55'6-HpCB	2.67e+06	7.64e+02	3.5e+03	2.41e+06	5.48e+02	4.4e+03
13C-2,5-DiCB	7.00e+06	7.60e+03	9.2e+02	4.42e+06	1.82e+03	2.4e+03
13C-22'55'-TeCB	2.90e+06	2.07e+03	1.4e+03	3.67e+06	1.62e+03	2.3e+03
13C-22'4'55'-PeCB	3.53e+06	1.67e+03	2.1e+03	2.21e+06	2.66e+03	8.3e+02
13C-22'3'44'5'-HxCB	2.73e+06	8.20e+02	3.3e+03	2.16e+06	6.88e+02	3.1e+03
13C-22'33'44'55'-OcCB	1.87e+06	6.08e+02	3.1e+03	2.11e+06	5.88e+02	3.6e+03

File:U139141 #1-347 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

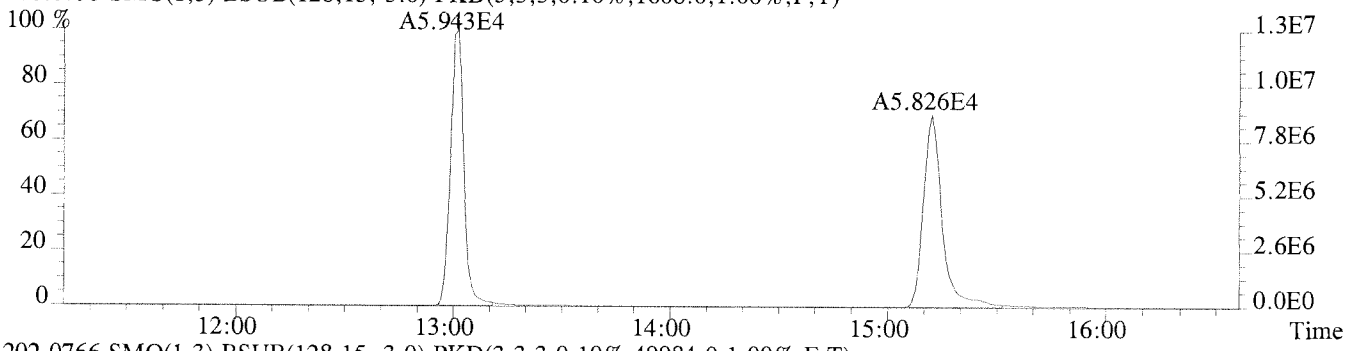
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1832.0,1.00%,F,T)



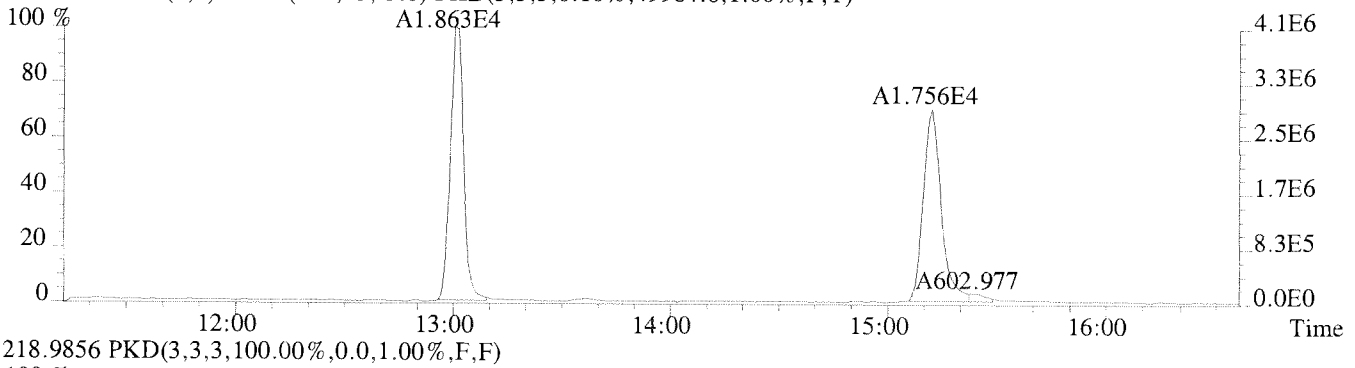
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2624.0,1.00%,F,T)



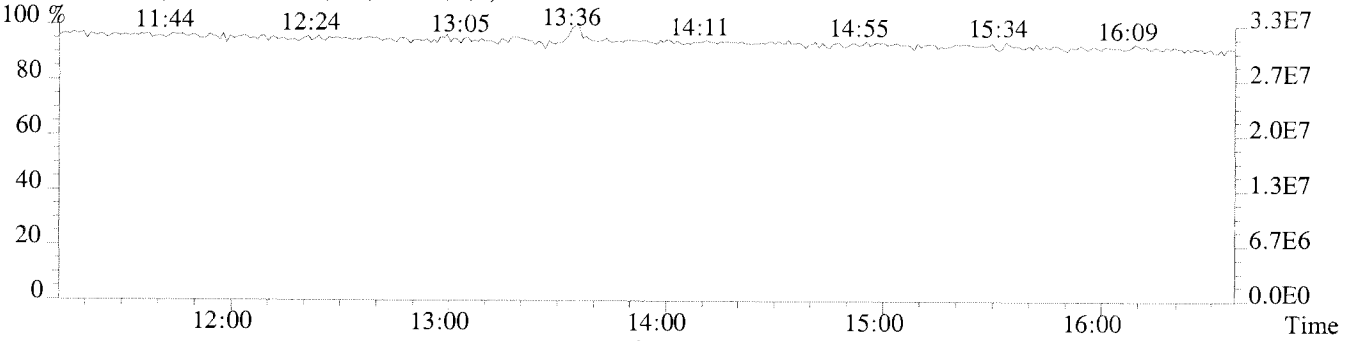
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1608.0,1.00%,F,T)



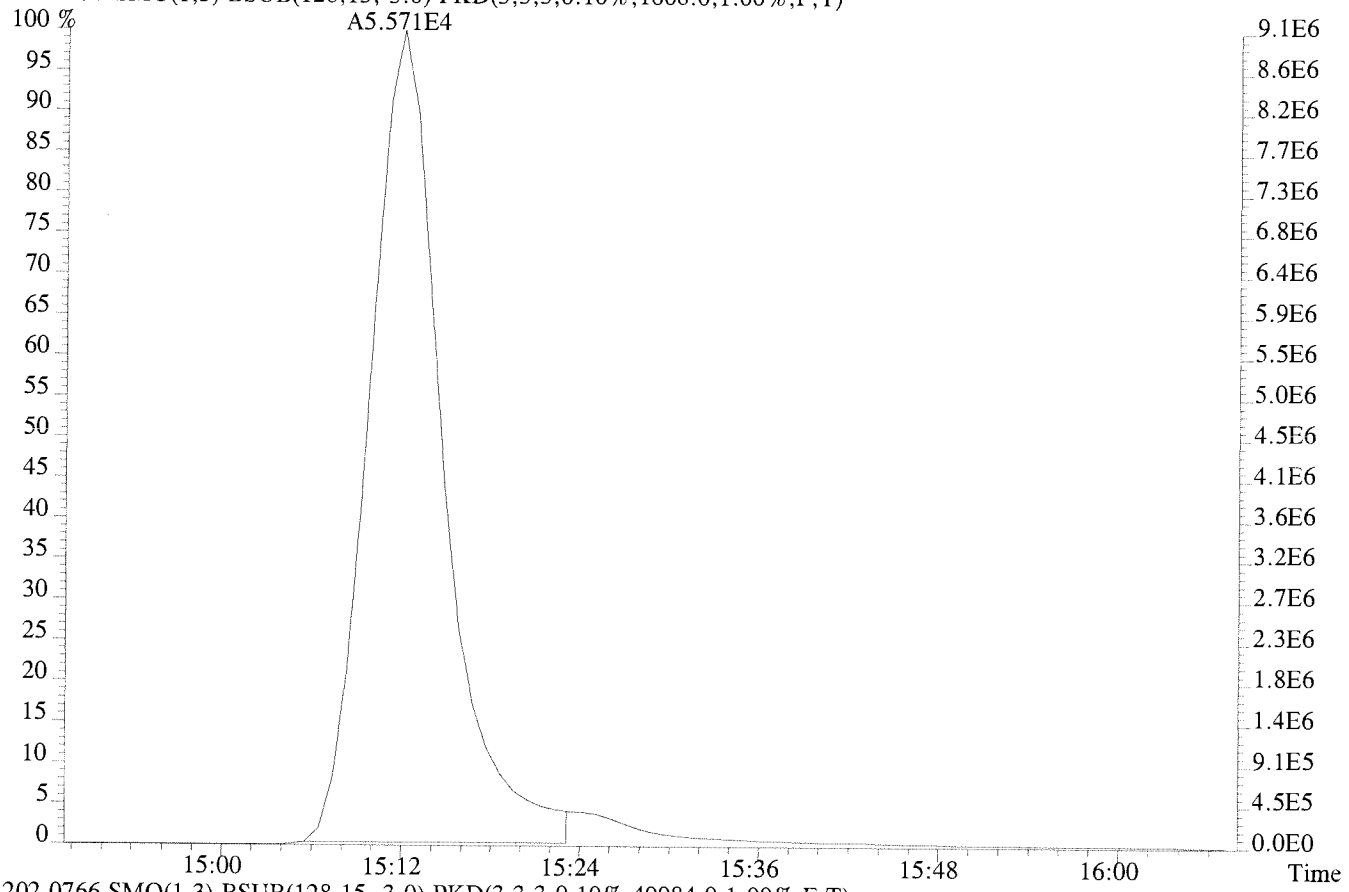
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,49984.0,1.00%,F,T)



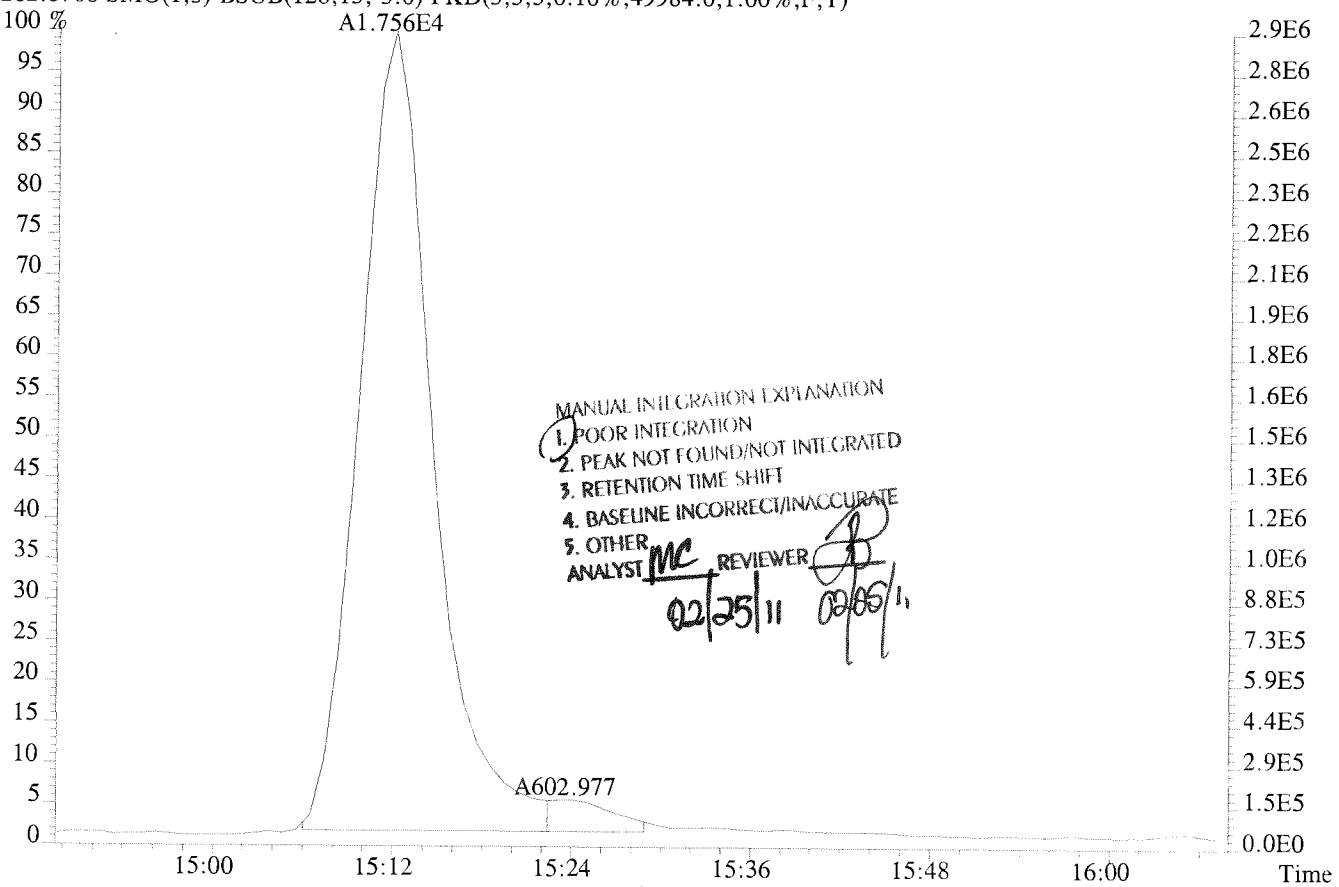
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139141 #1-347 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1608.0,1.00%,F,T)



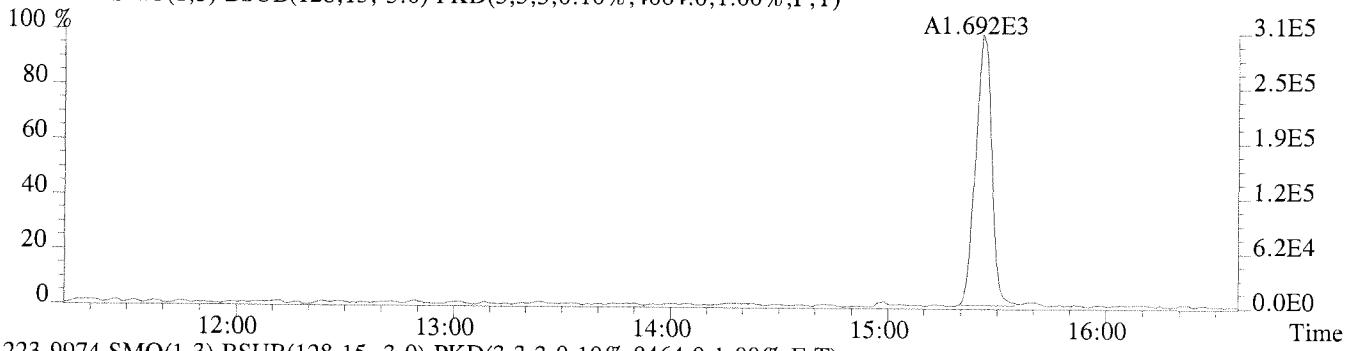
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,49984.0,1.00%,F,T)



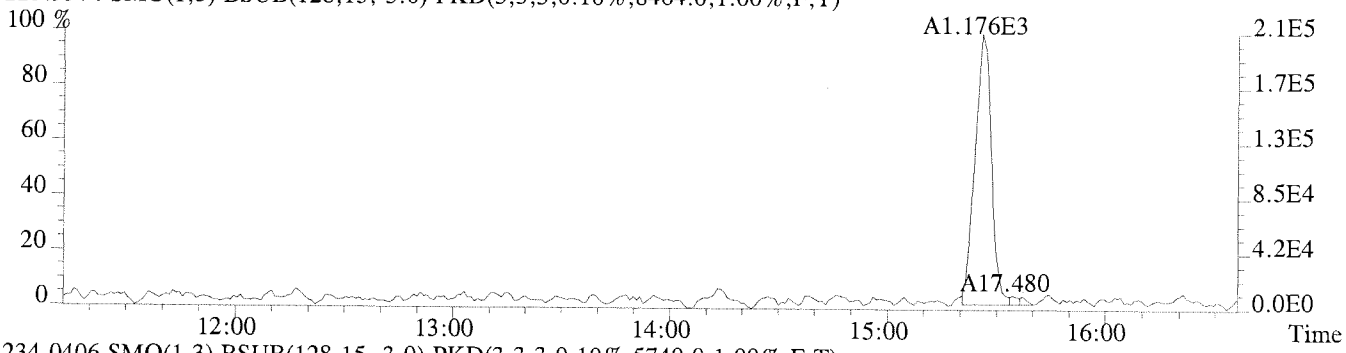
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/25/11 02/05/11

File:U139141 #1-347 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

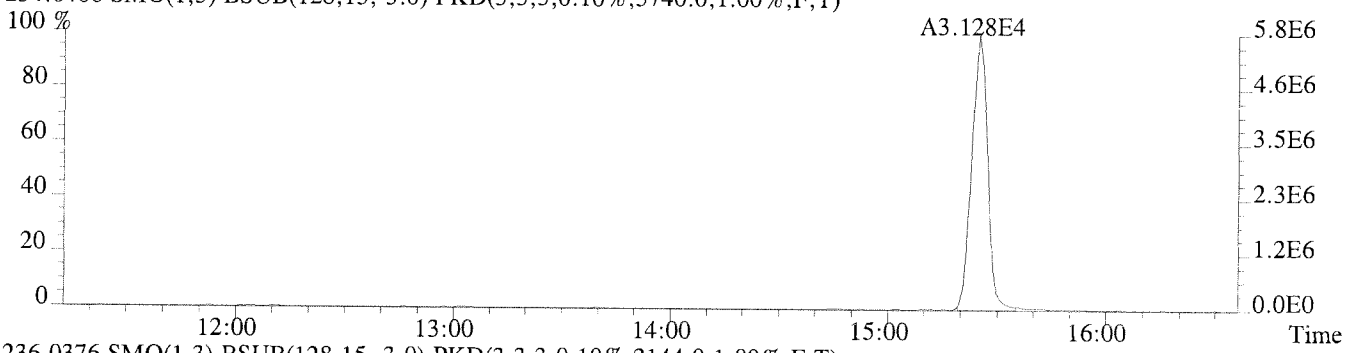
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4064.0,1.00%,F,T)



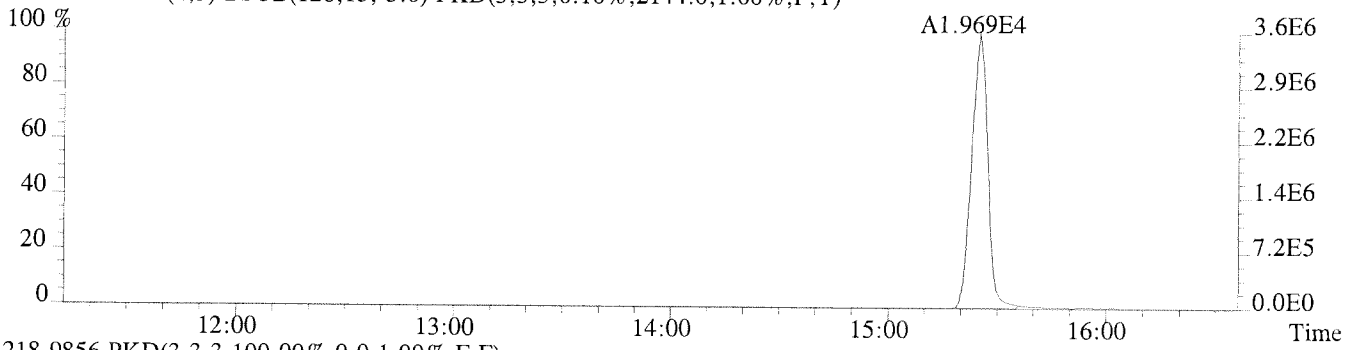
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8464.0,1.00%,F,T)



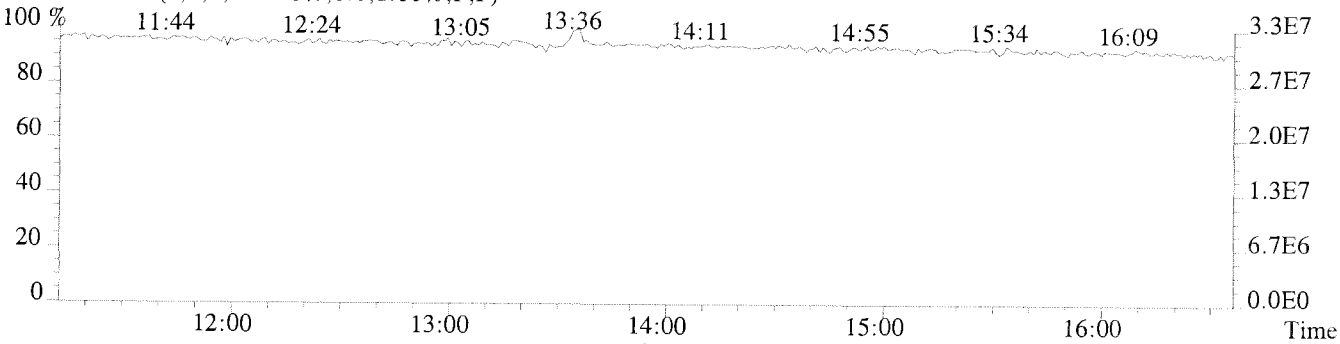
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5740.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2144.0,1.00%,F,T)

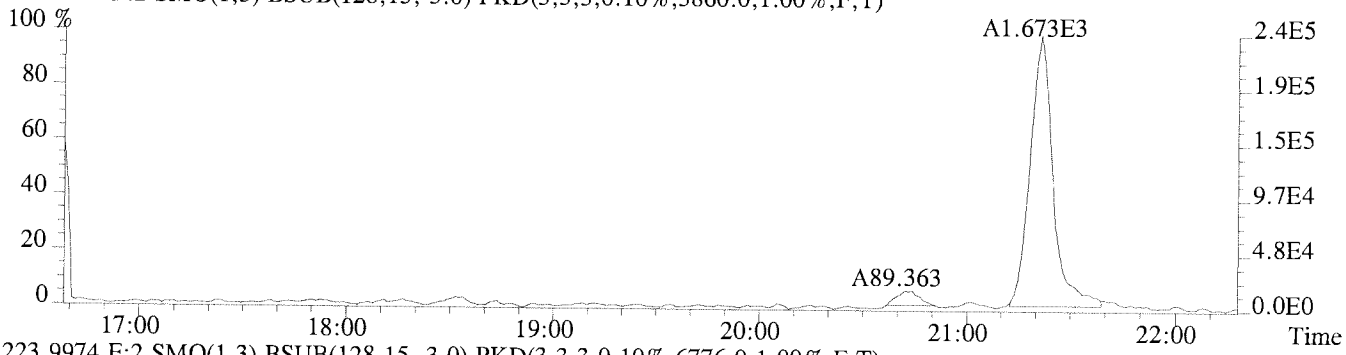


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

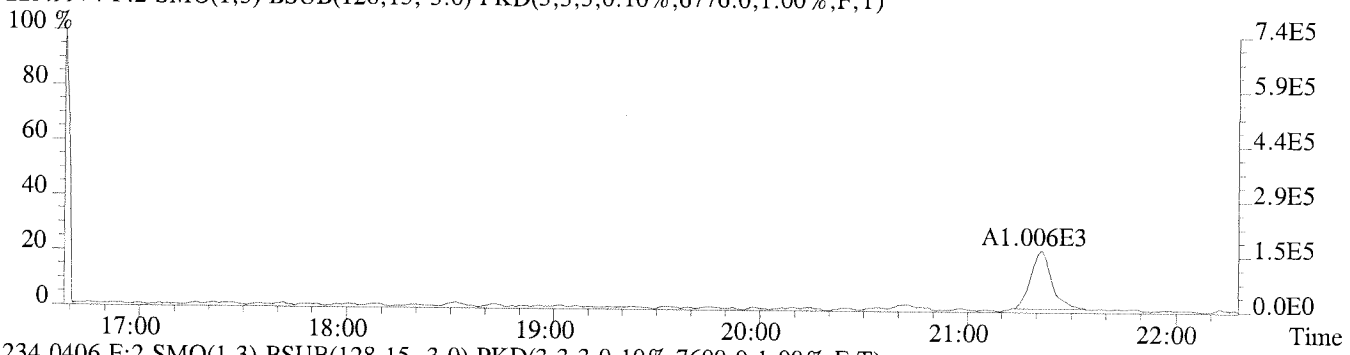


File:U139141 #1-313 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

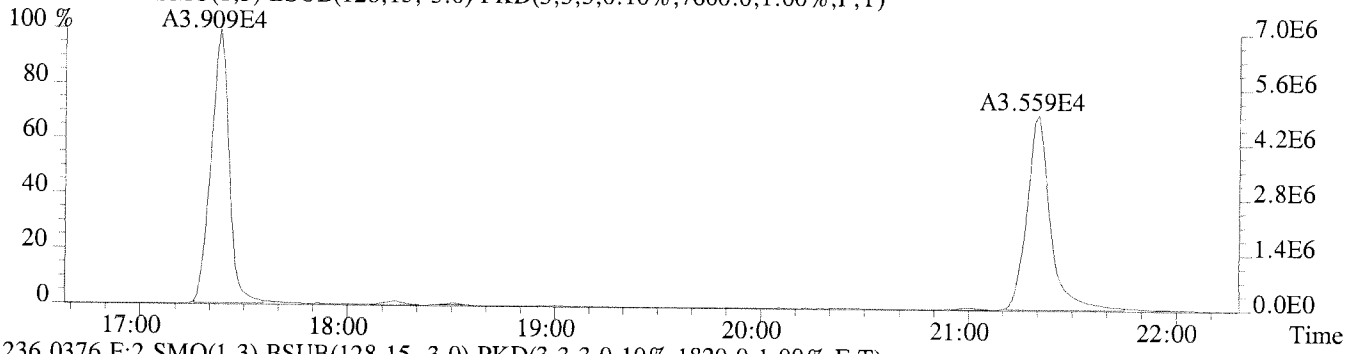
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3860.0,1.00%,F,T)



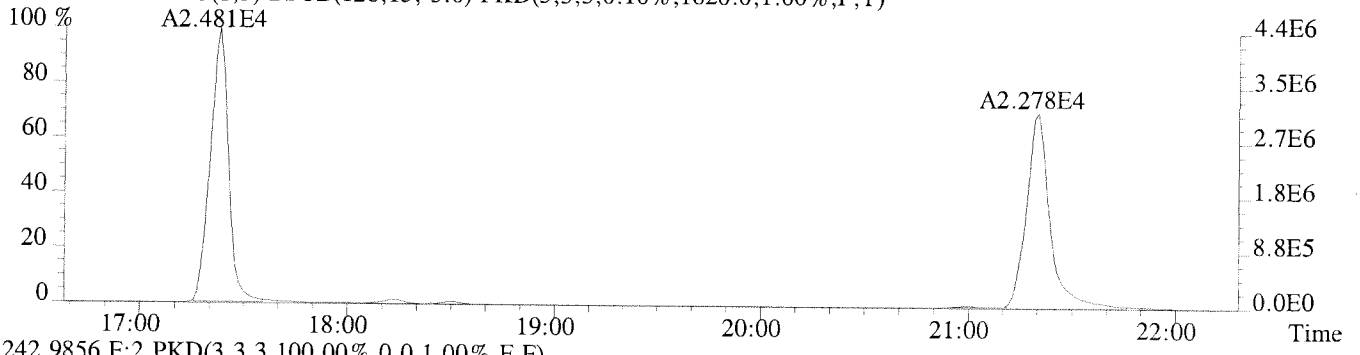
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6776.0,1.00%,F,T)



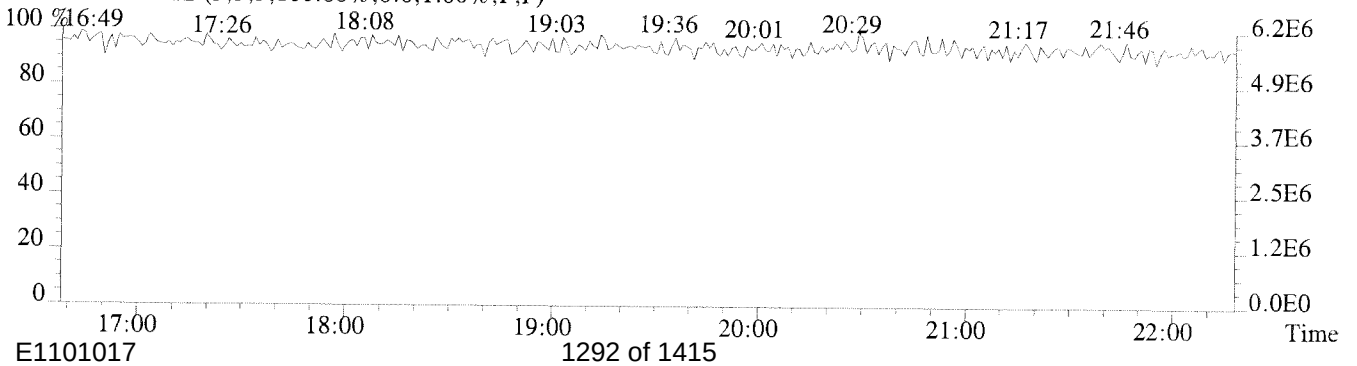
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7600.0,1.00%,F,T)



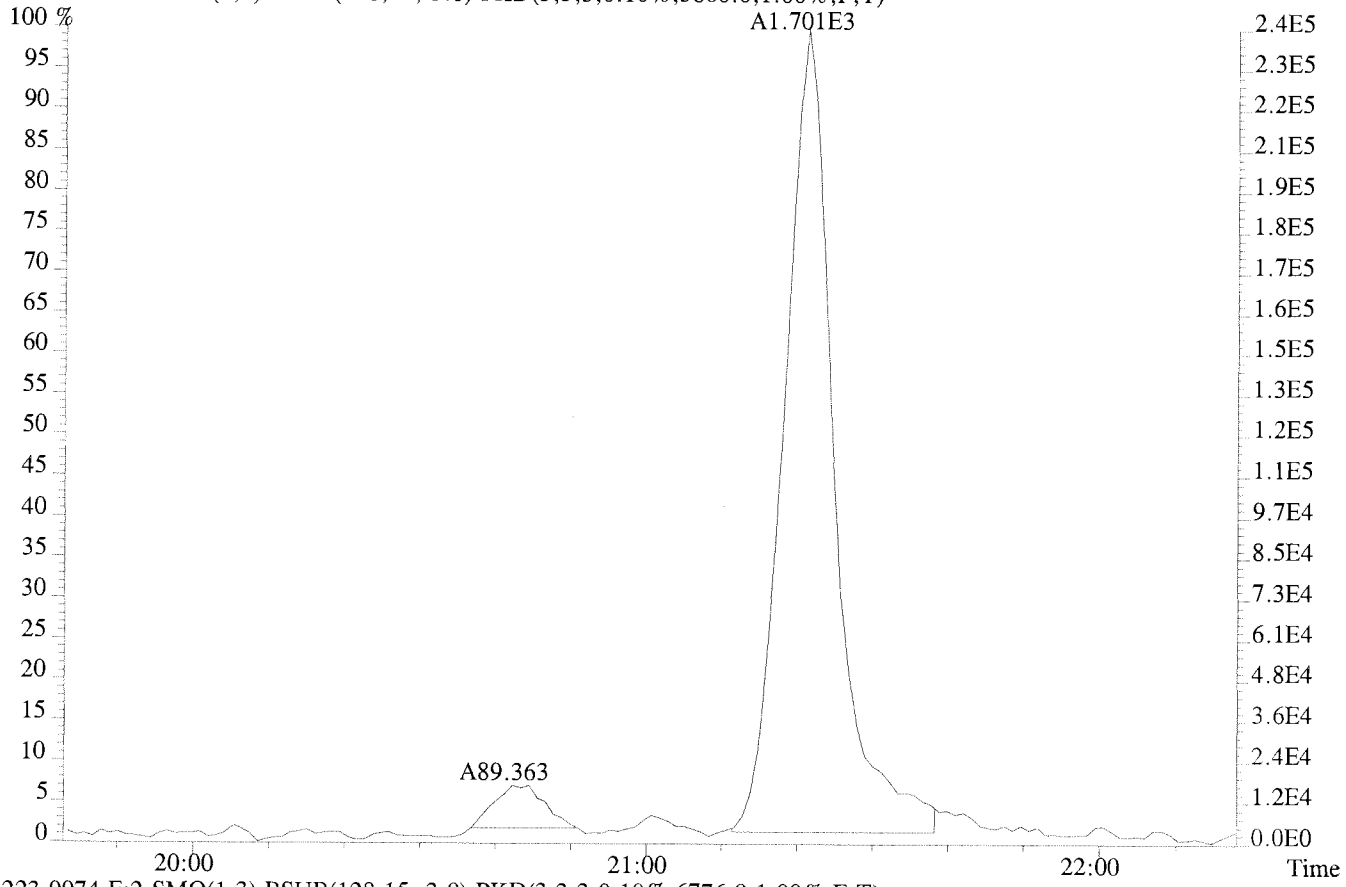
236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1820.0,1.00%,F,T)



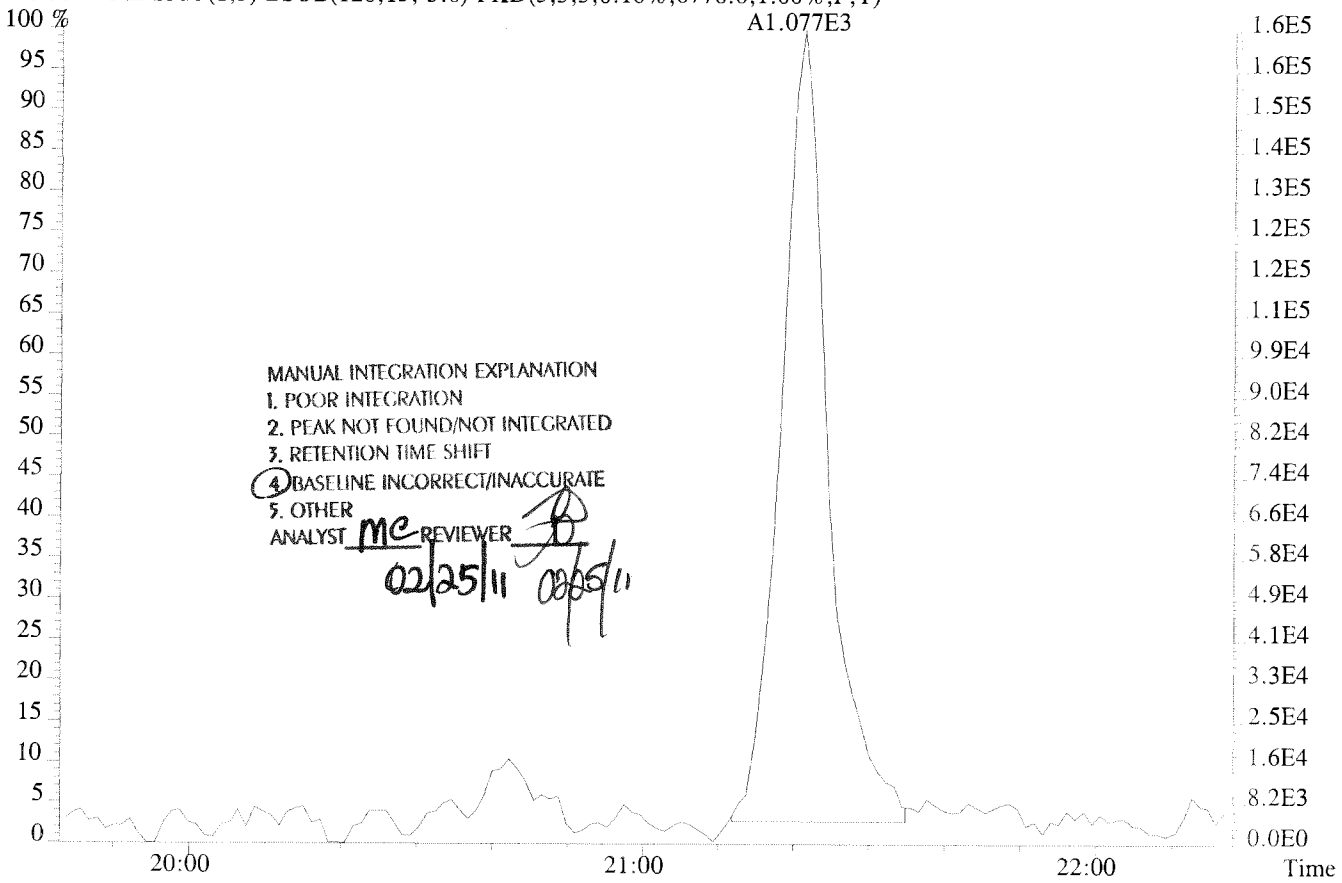
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139141 #1-313 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3860.0,1.00%,F,T)

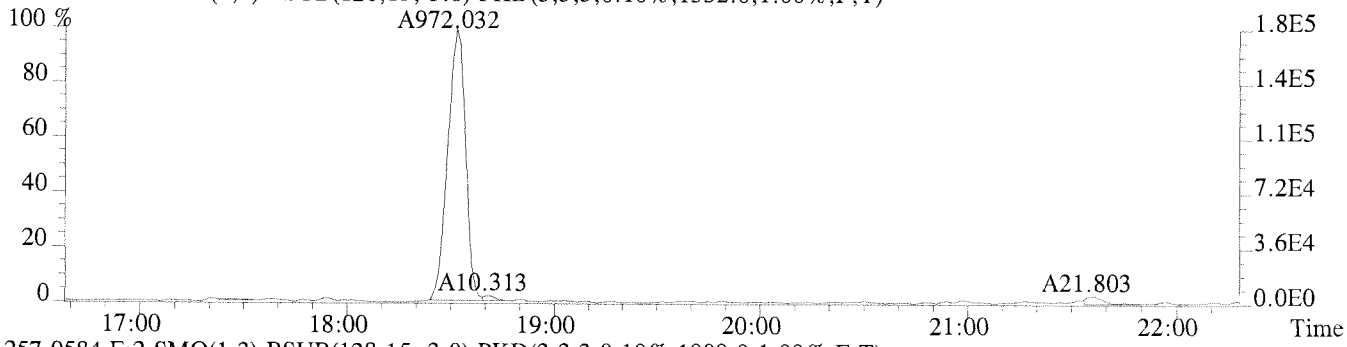


223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6776.0,1.00%,F,T)

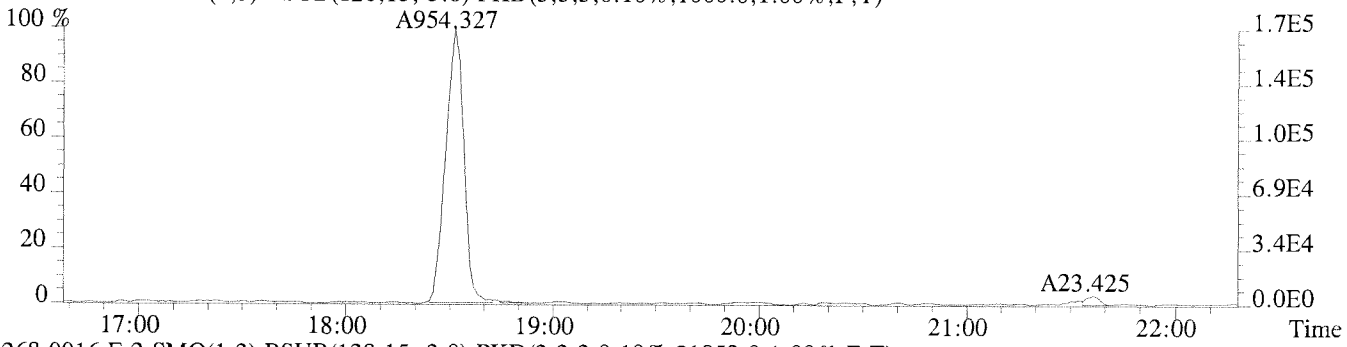


File:U139141 #1-313 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

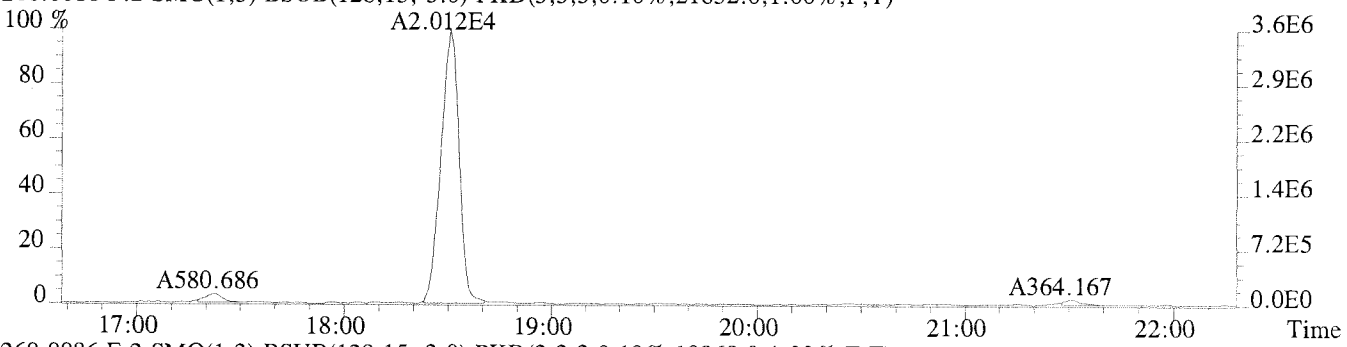
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1352.0,1.00%,F,T)



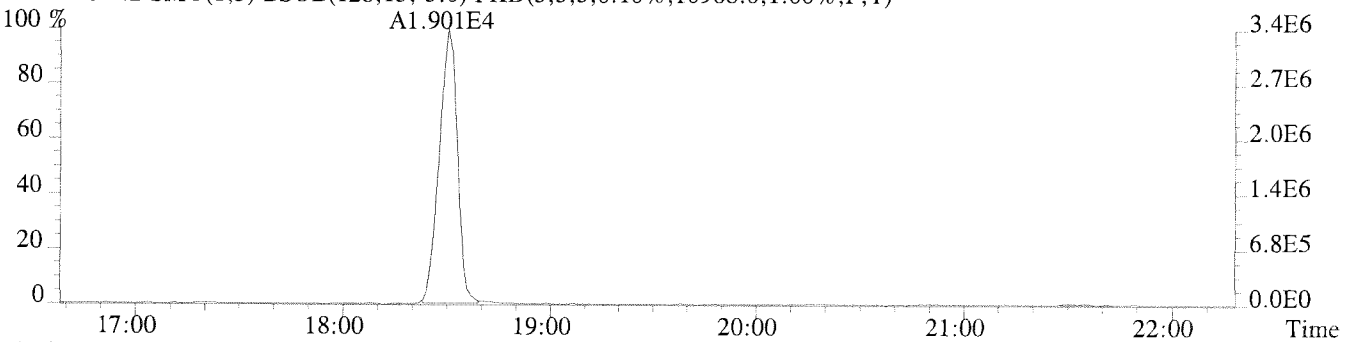
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)



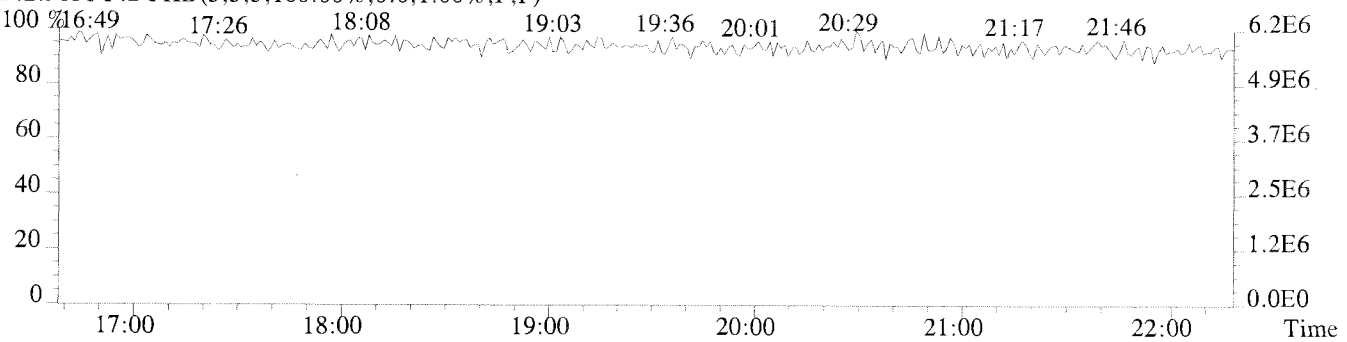
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,21852.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10968.0,1.00%,F,T)

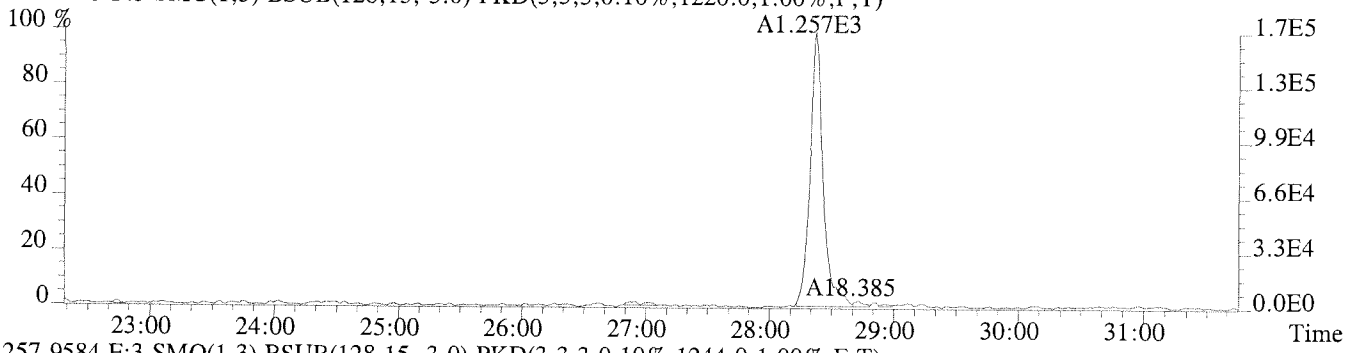


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

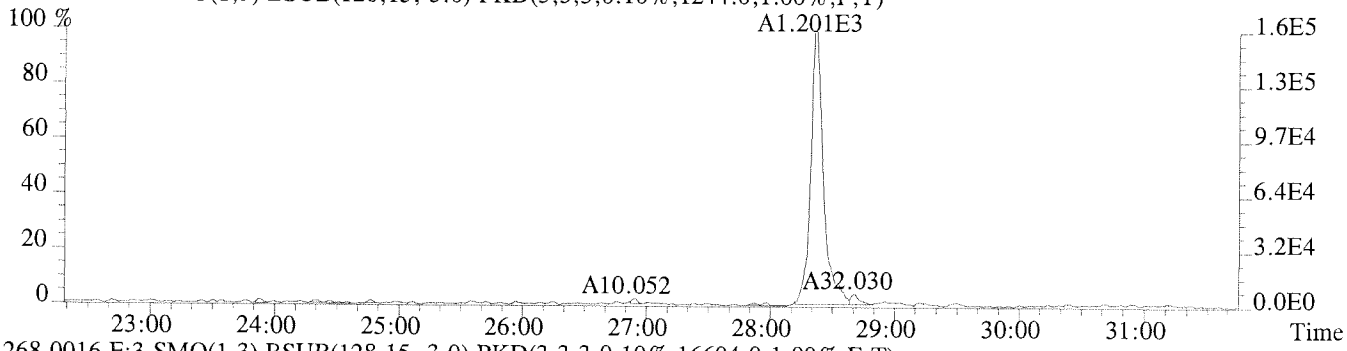


File:U139141 #1-604 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

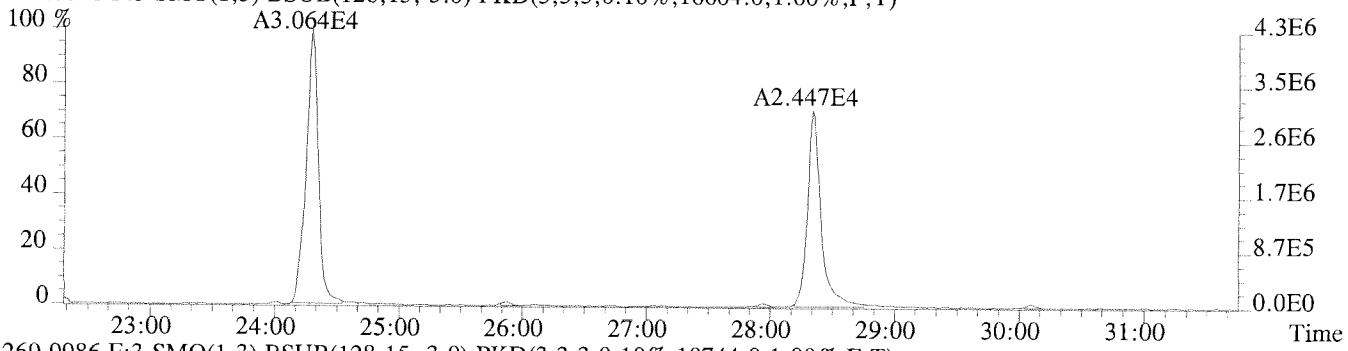
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)



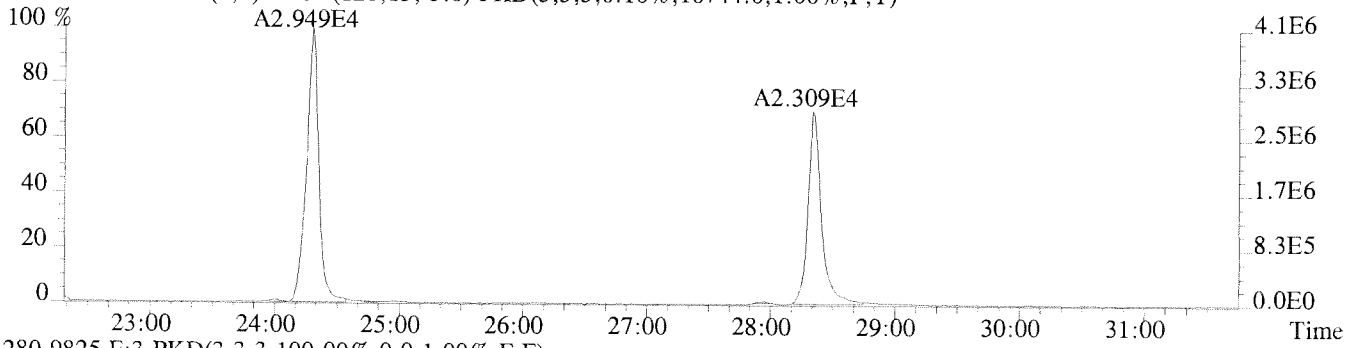
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)



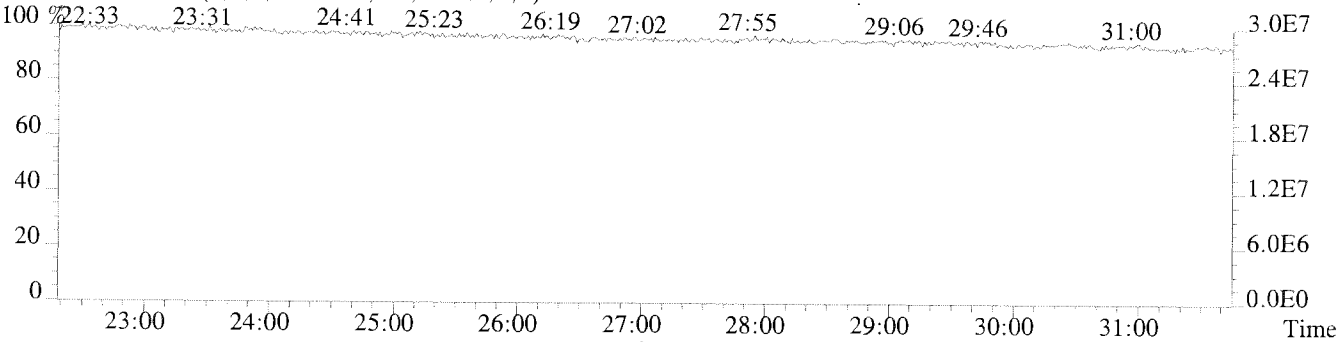
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,16604.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10744.0,1.00%,F,T)

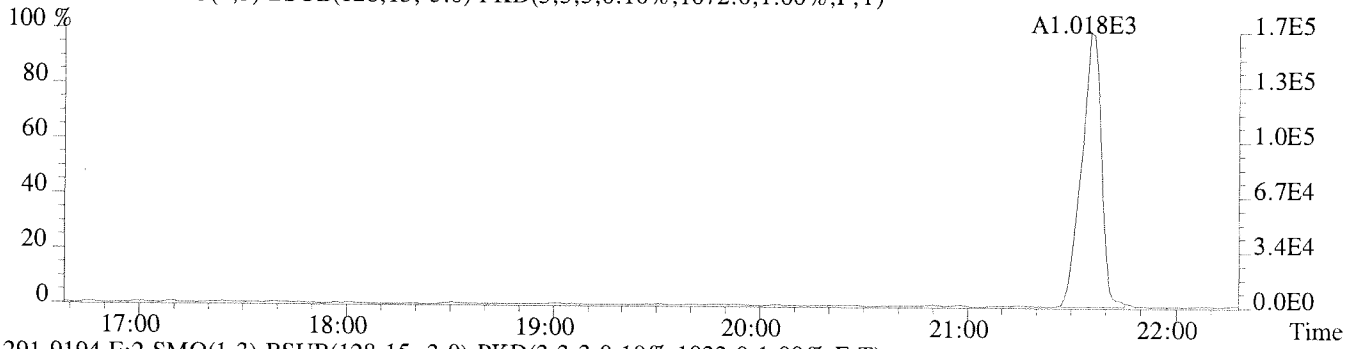


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

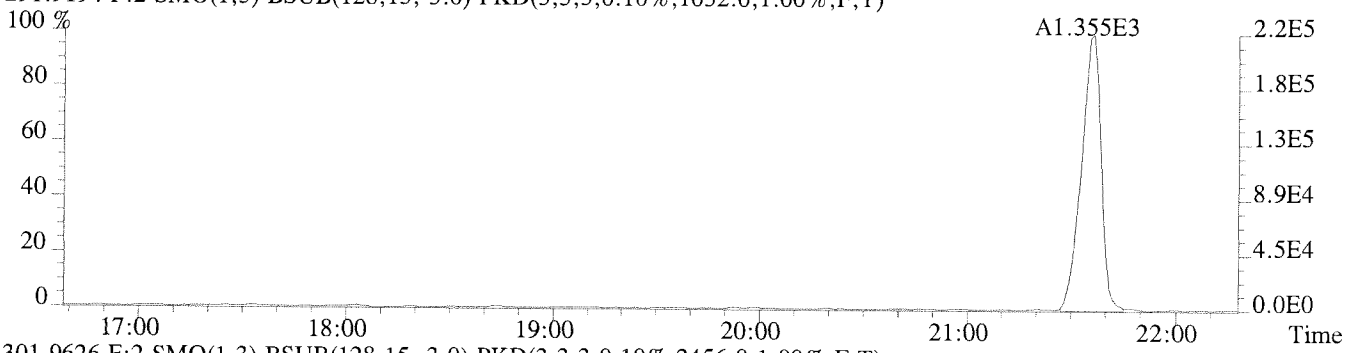


File:U139141 #1-313 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

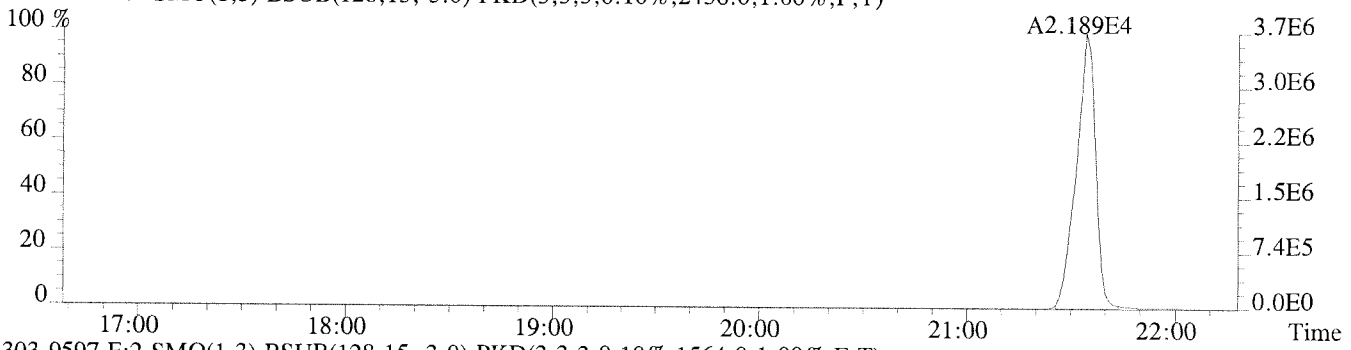
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1072.0,1.00%,F,T)



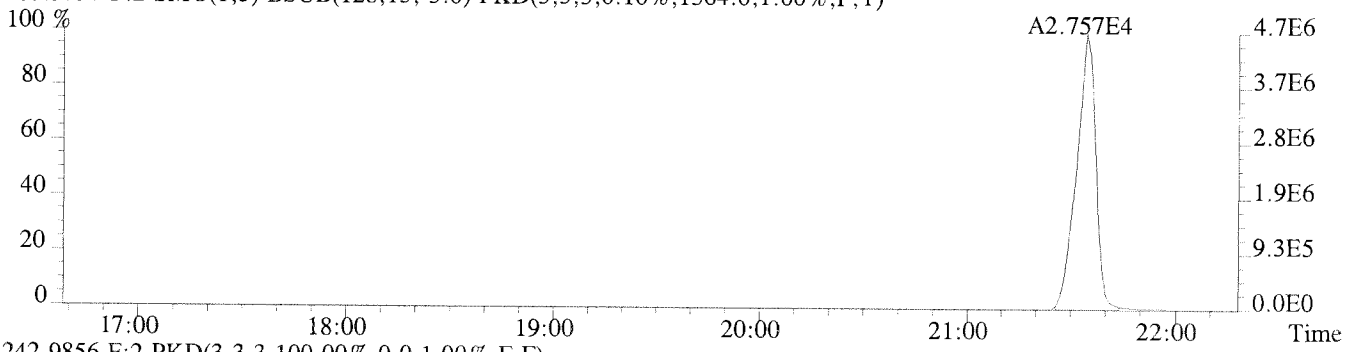
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1032.0,1.00%,F,T)



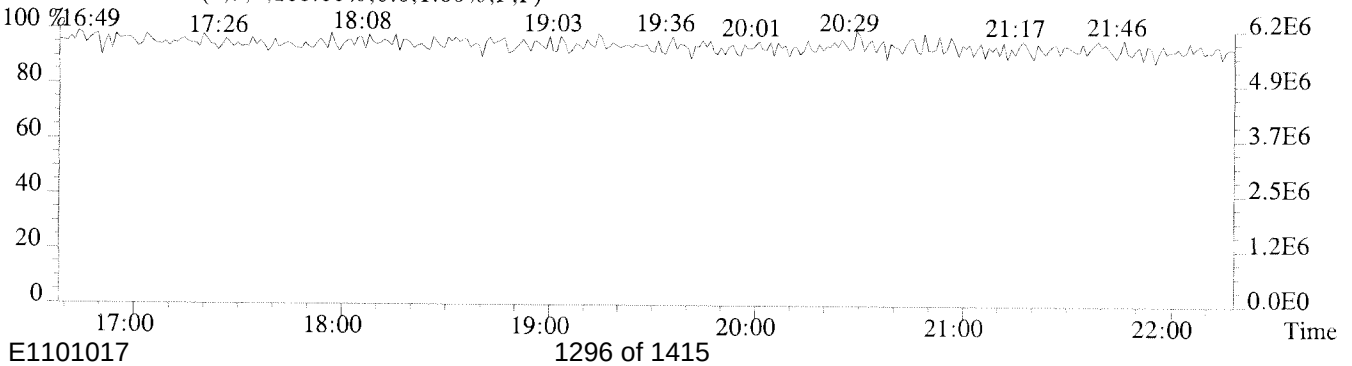
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2456.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1564.0,1.00%,F,T)

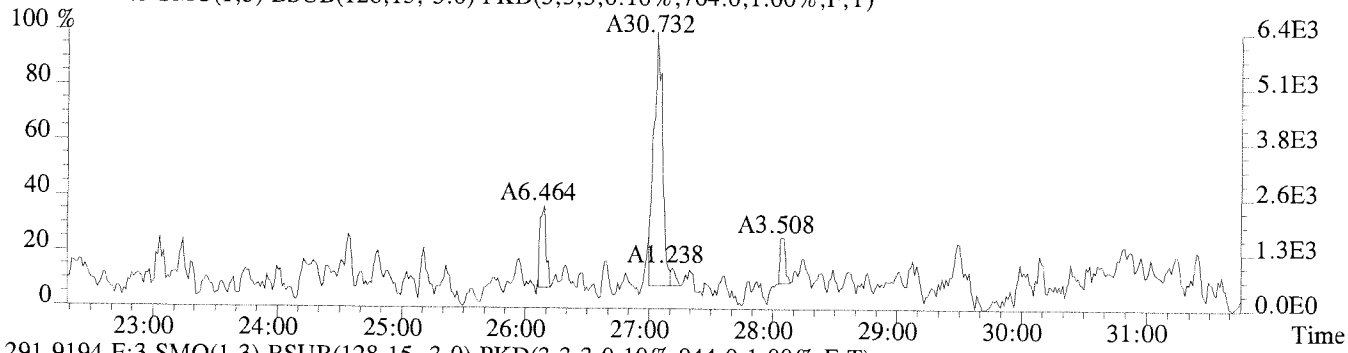


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

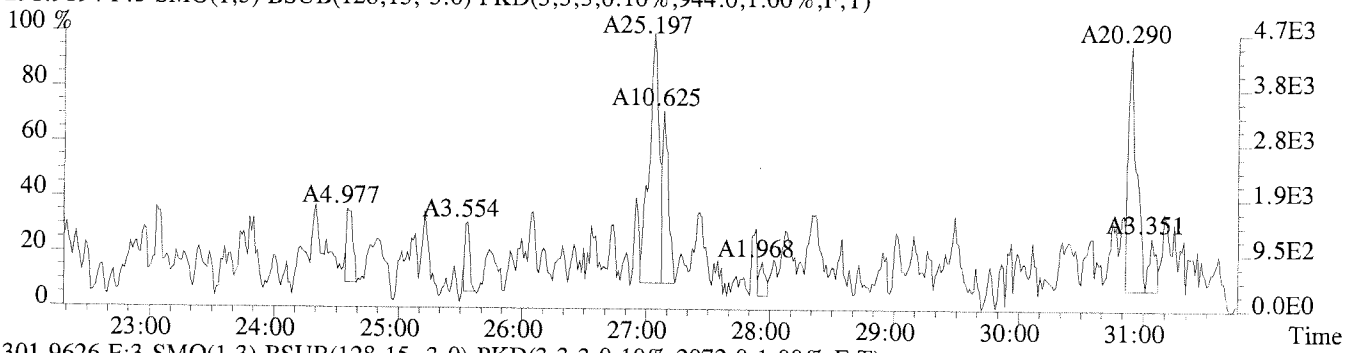


File:U139141 #1-604 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

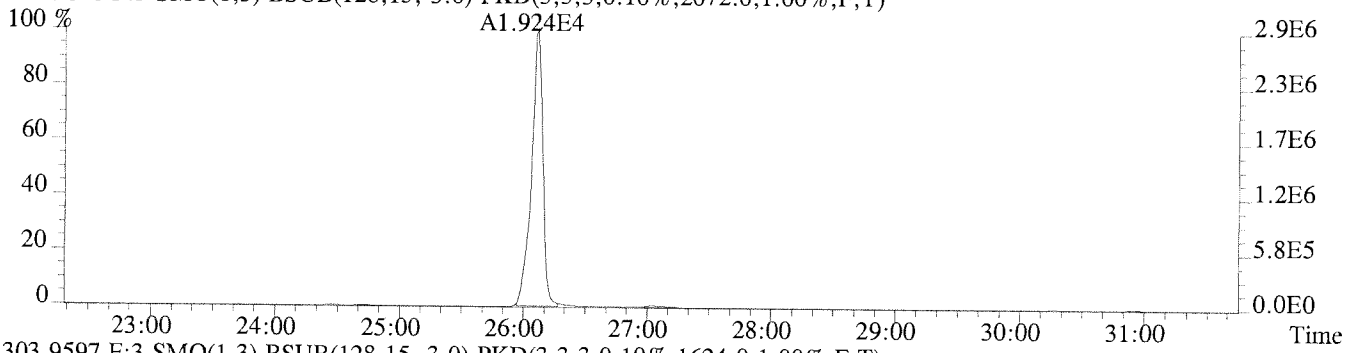
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,764.0,1.00%,F,T)



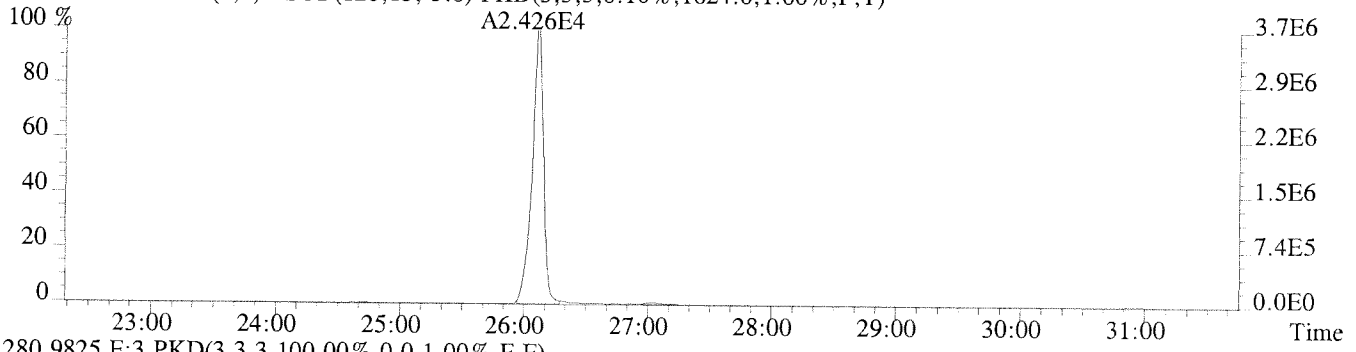
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



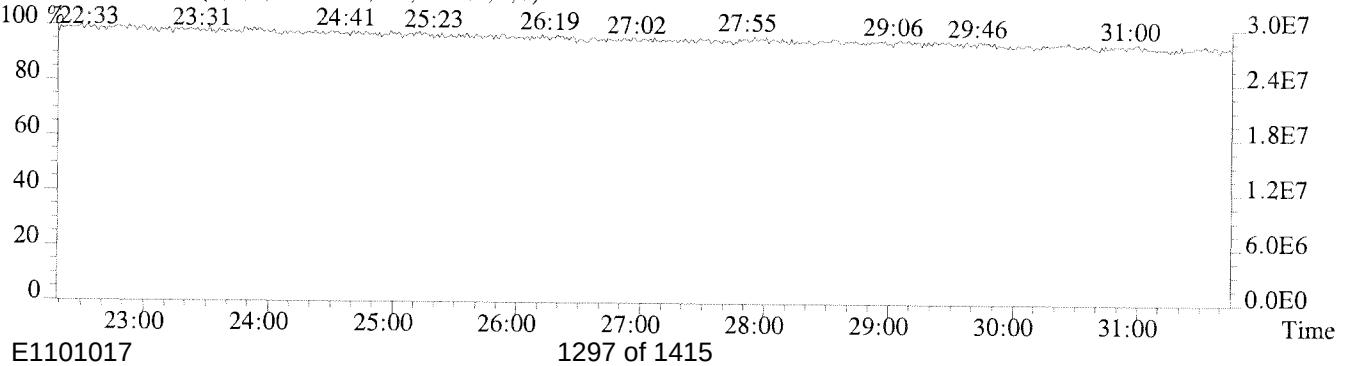
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2072.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1624.0,1.00%,F,T)

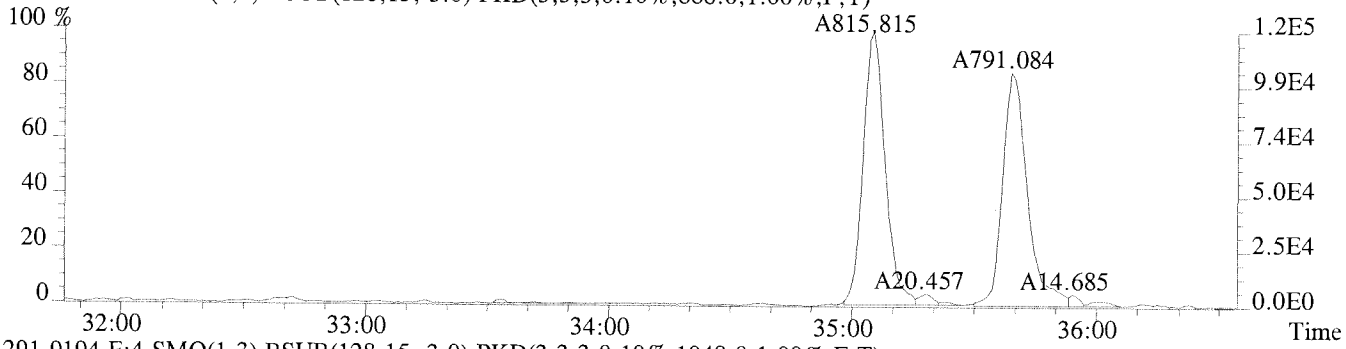


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

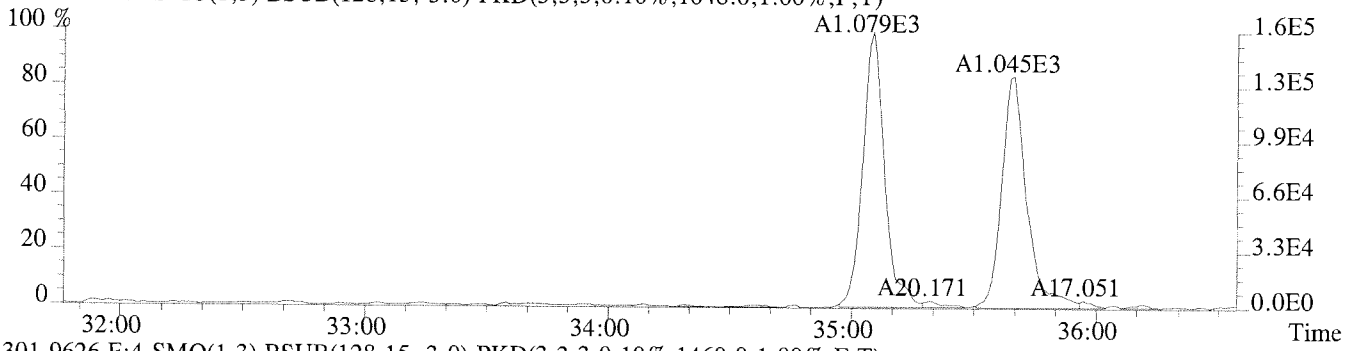


File:U139141 #1-308 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

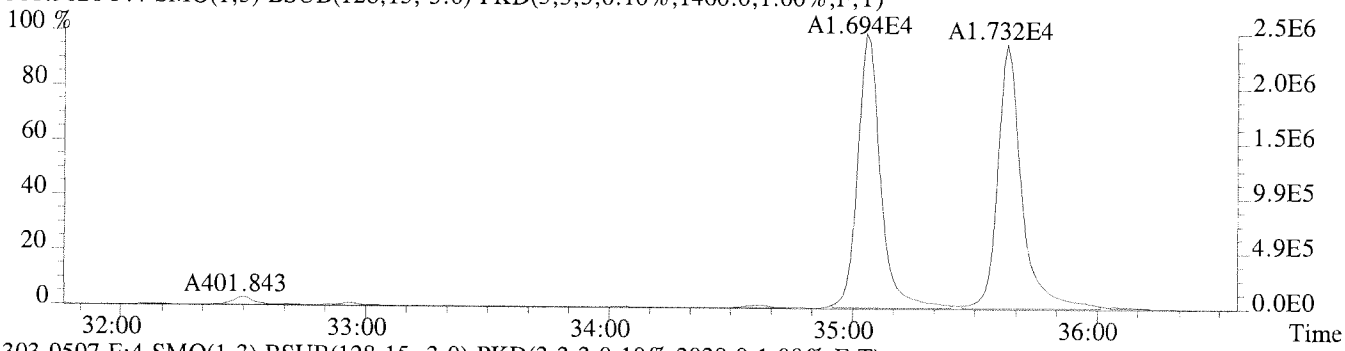
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)



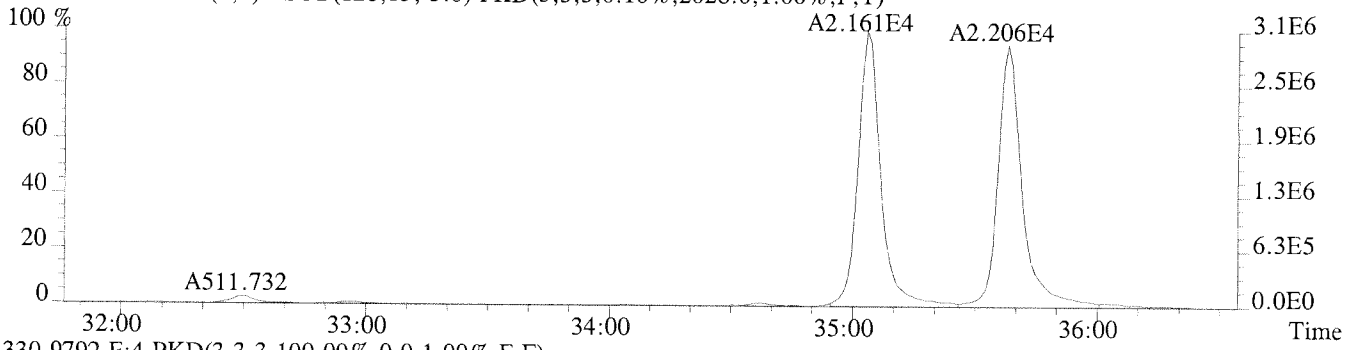
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1048.0,1.00%,F,T)



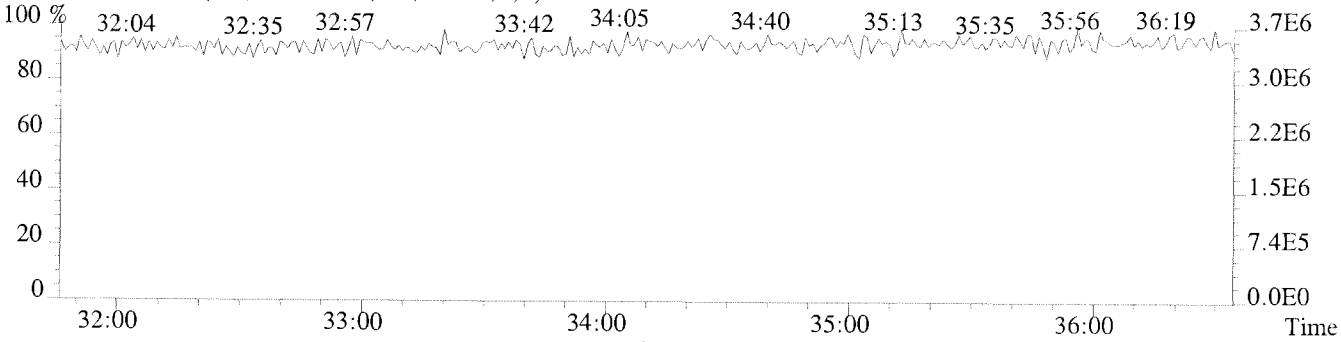
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1460.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2028.0,1.00%,F,T)

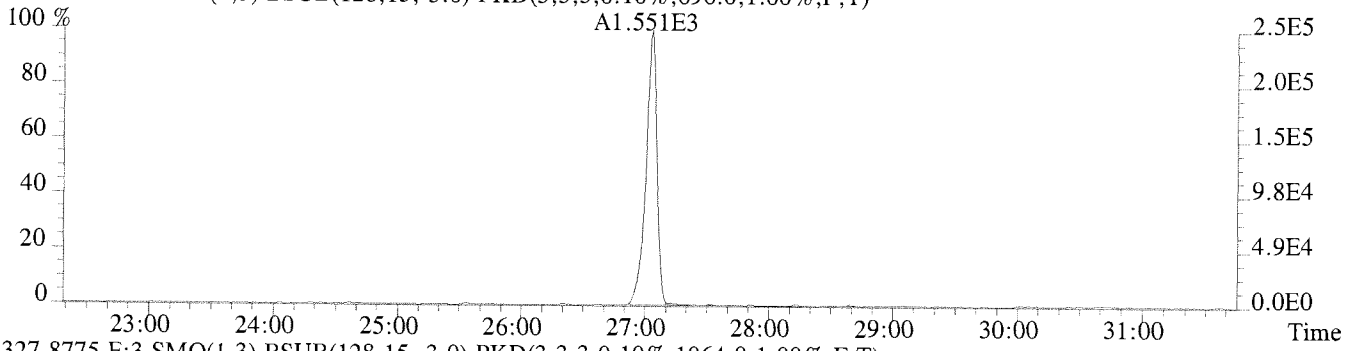


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

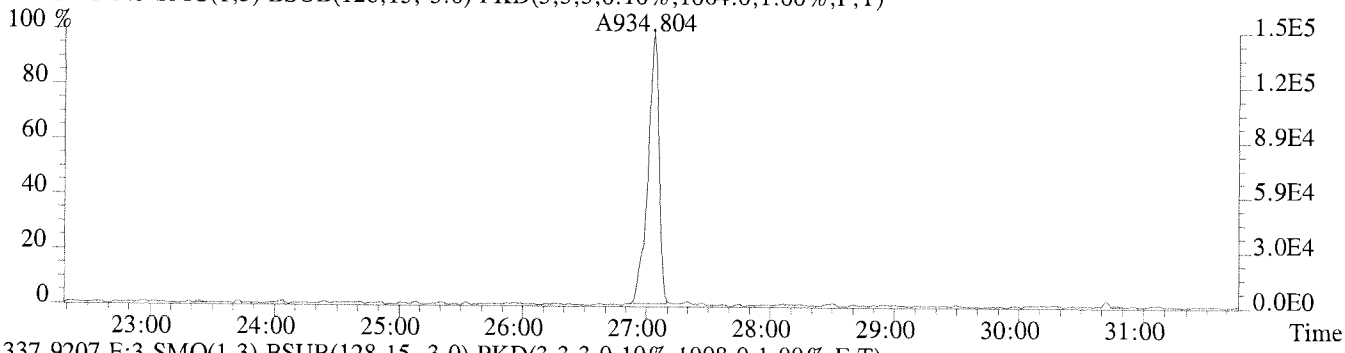


File:U139141 #1-604 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

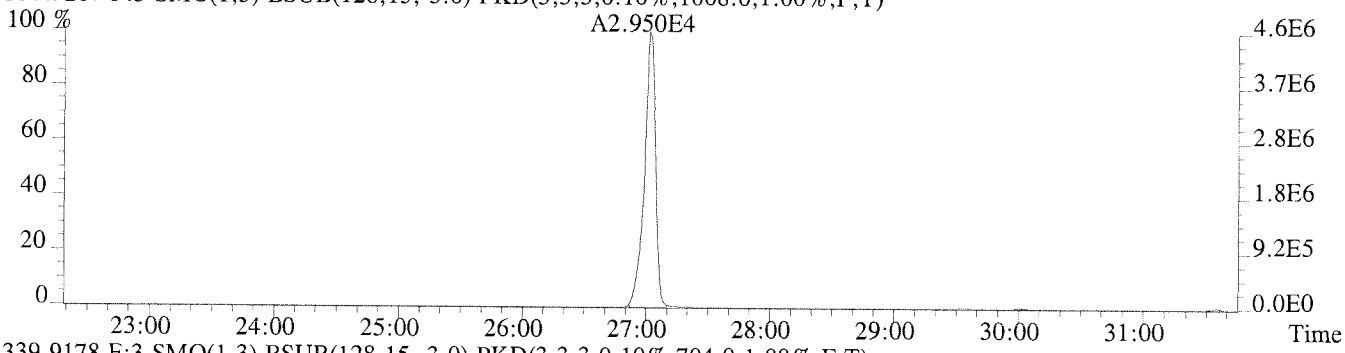
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,696.0,1.00%,F,T)



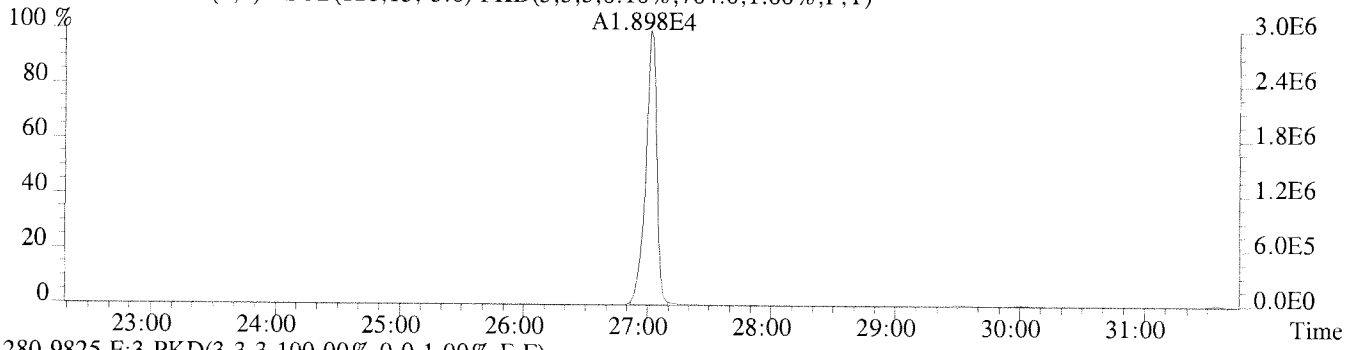
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1064.0,1.00%,F,T)



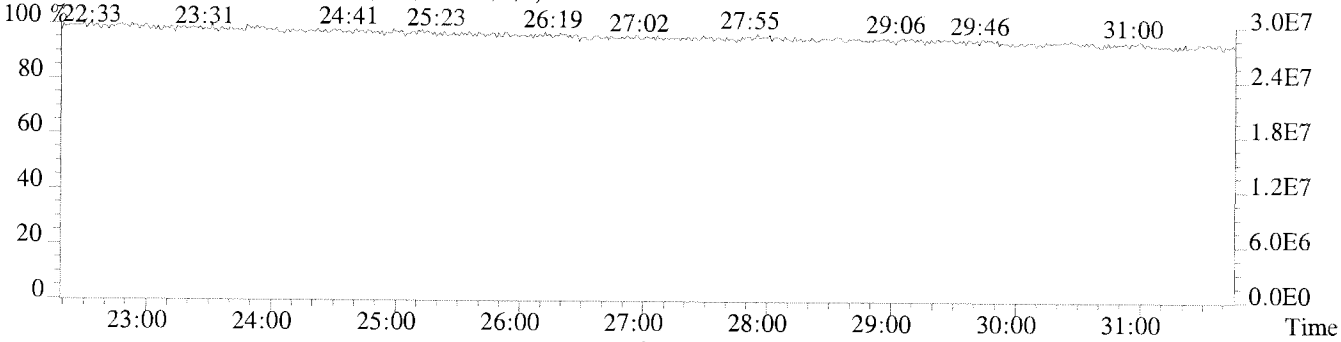
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1008.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,704.0,1.00%,F,T)

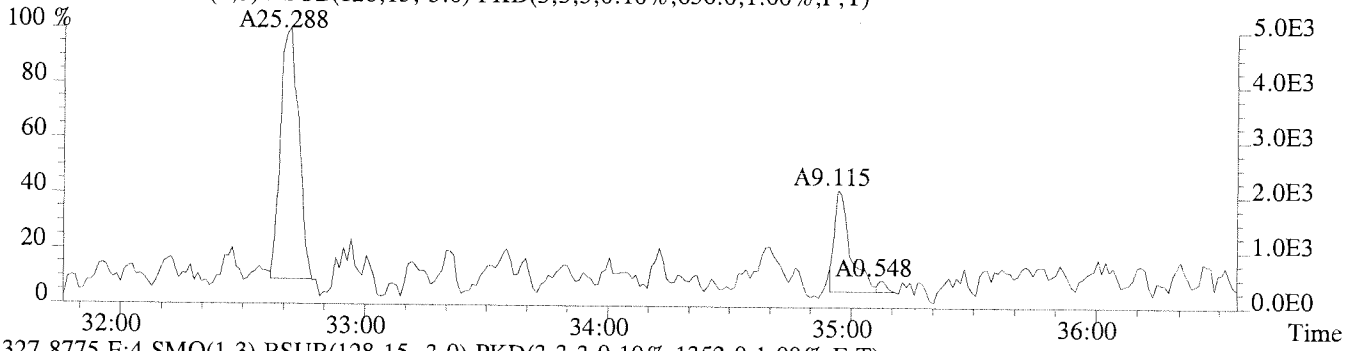


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

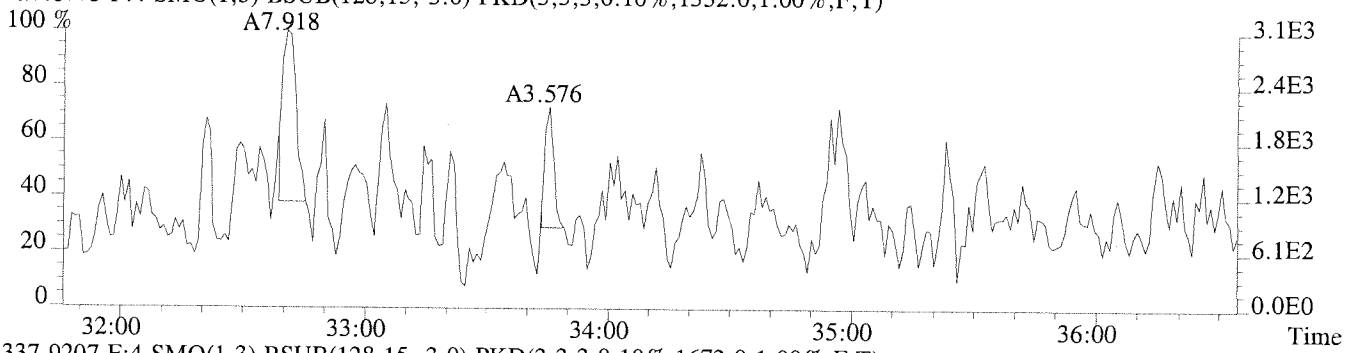


File:U139141 #1-308 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

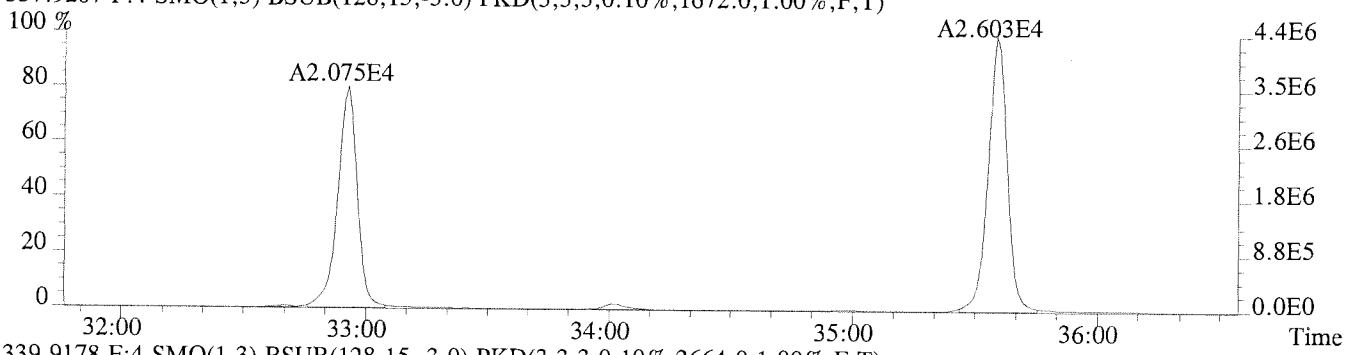
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,656.0,1.00%,F,T)



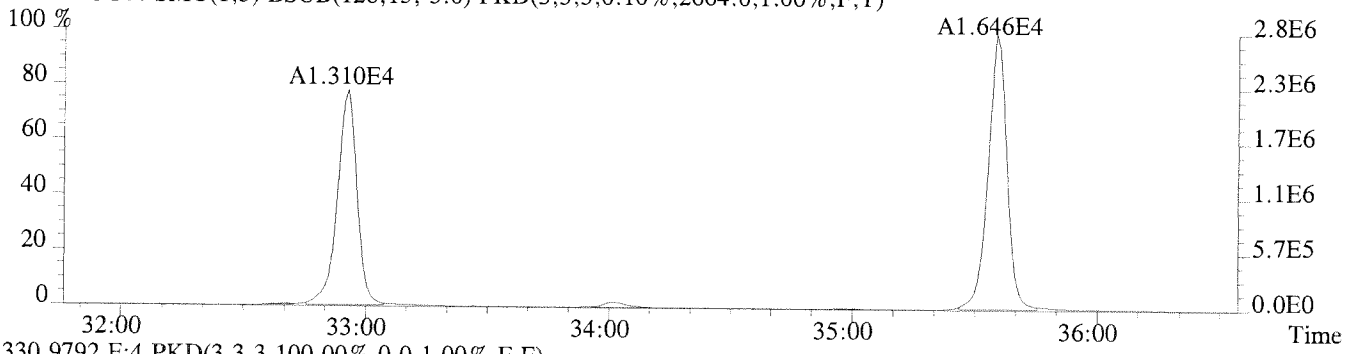
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1352.0,1.00%,F,T)



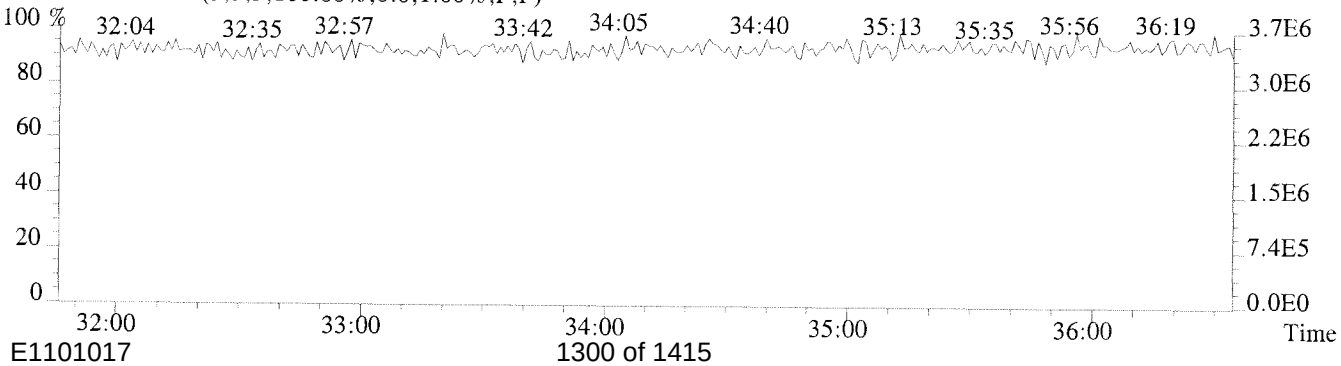
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1672.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2664.0,1.00%,F,T)

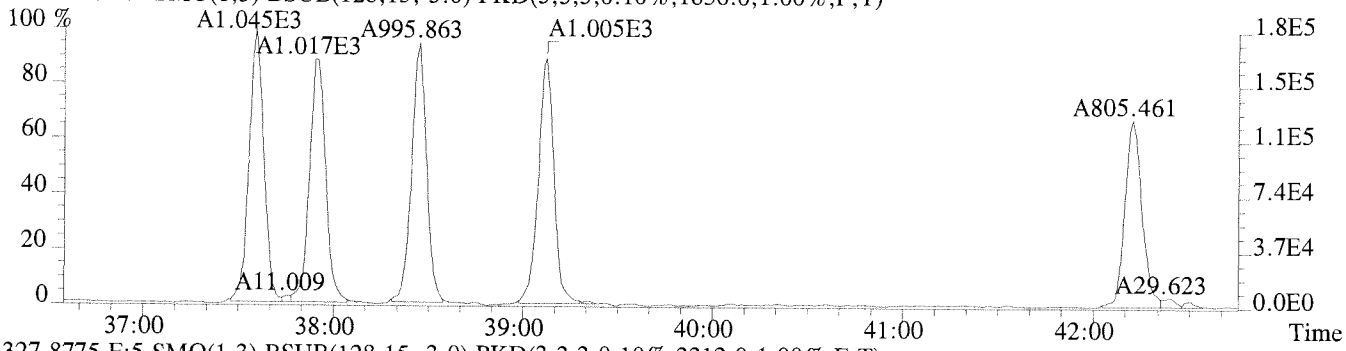


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

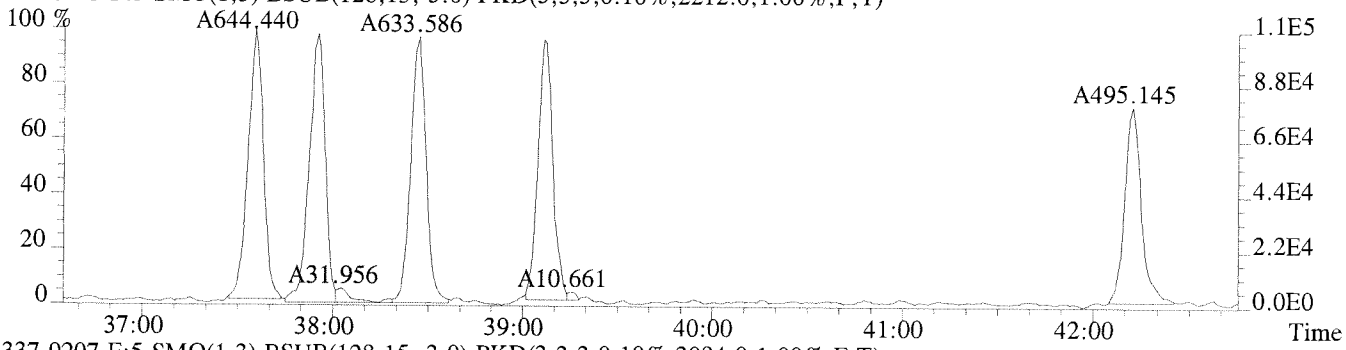


File:U139141 #1-395 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

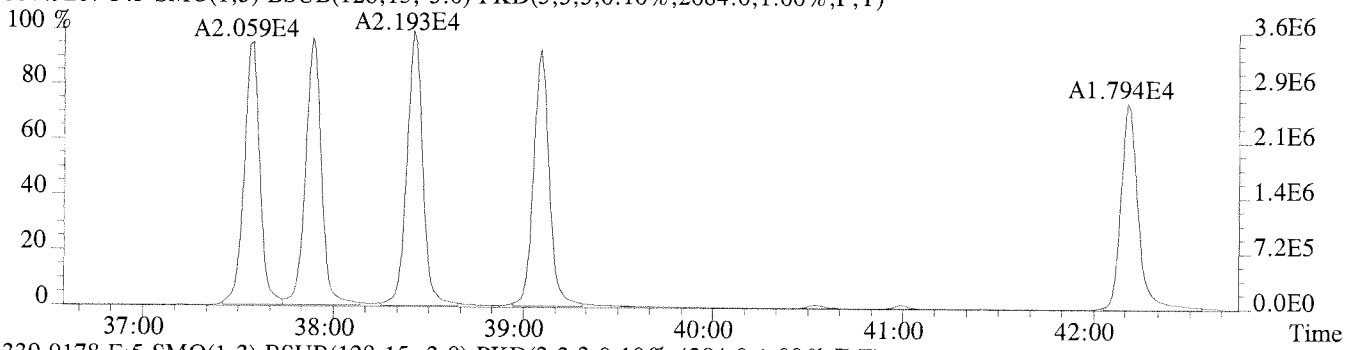
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1856.0,1.00%,F,T)



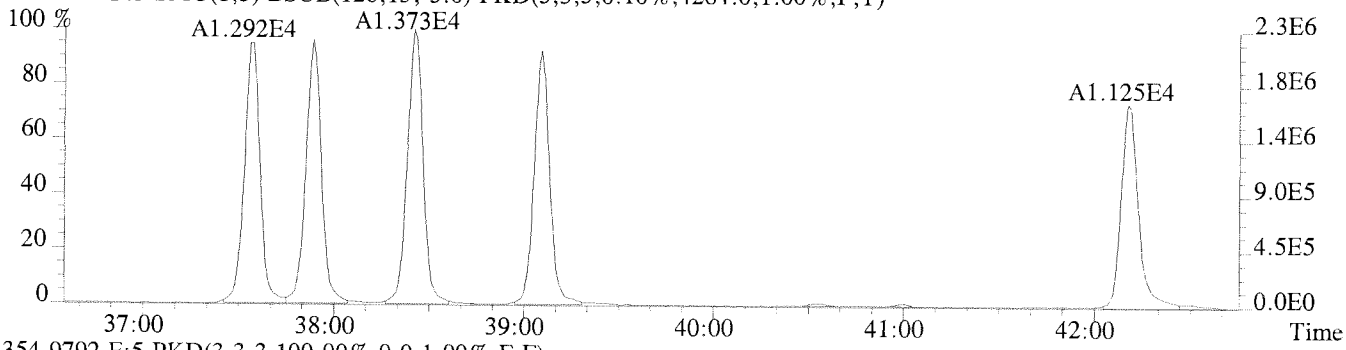
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2212.0,1.00%,F,T)



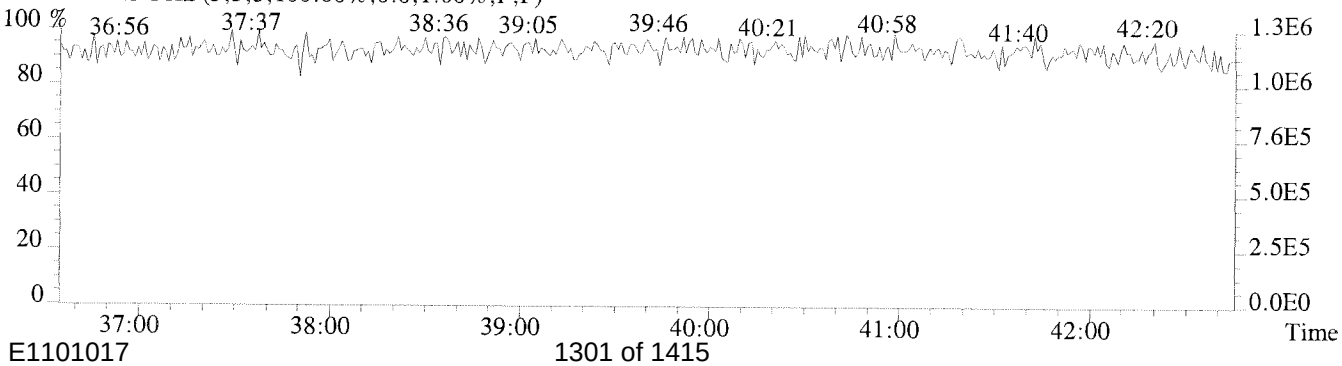
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2084.0,1.00%,F,T)



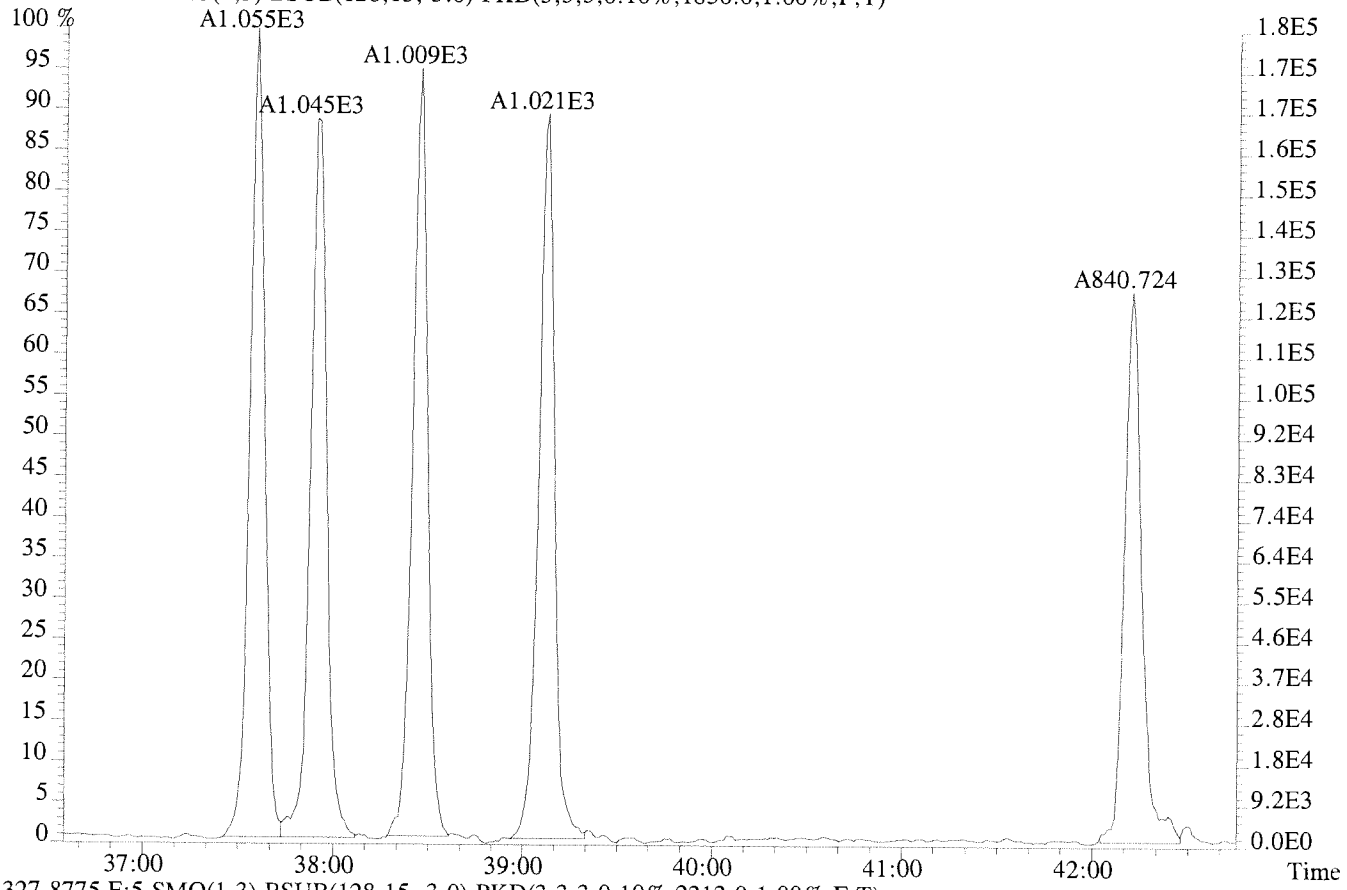
339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4284.0,1.00%,F,T)



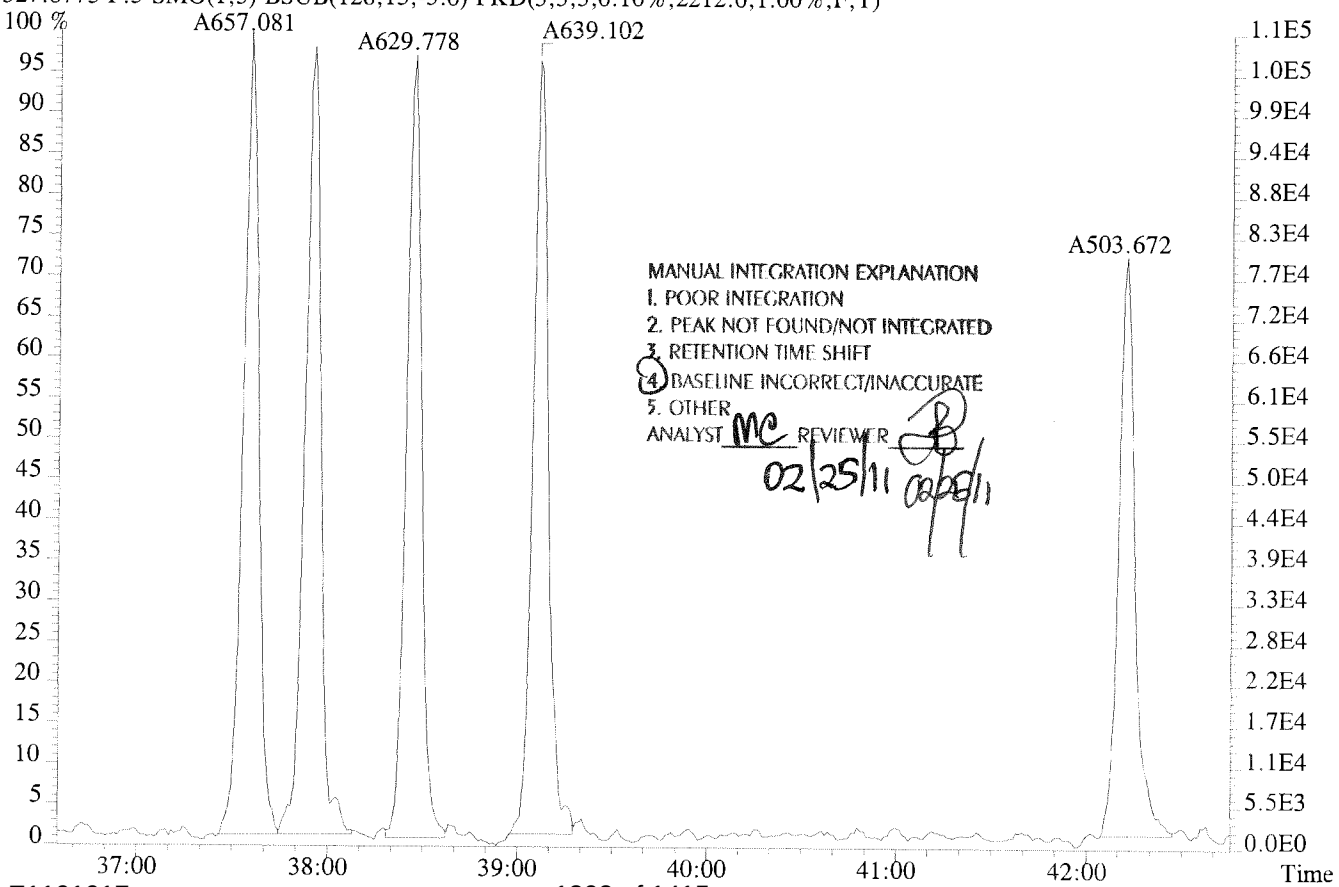
354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139141 #1-395 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1856.0,1.00%,F,T)



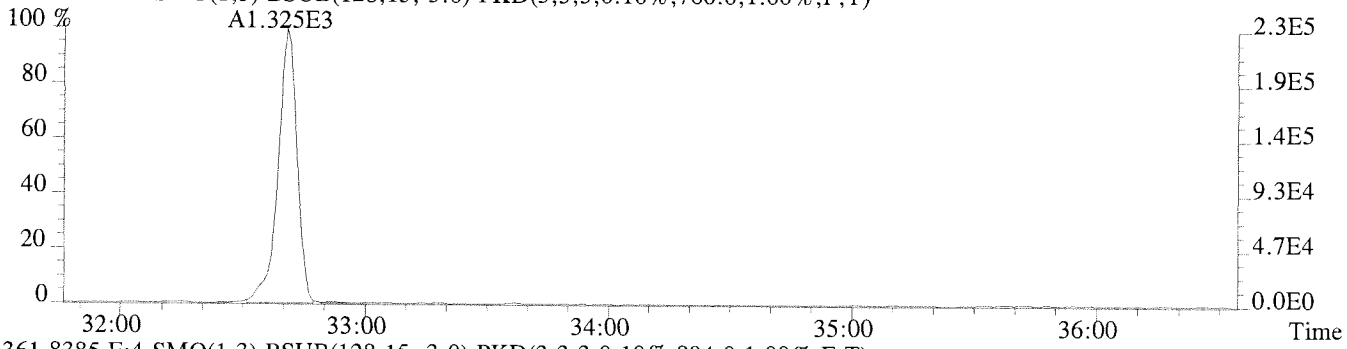
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2212.0,1.00%,F,T)



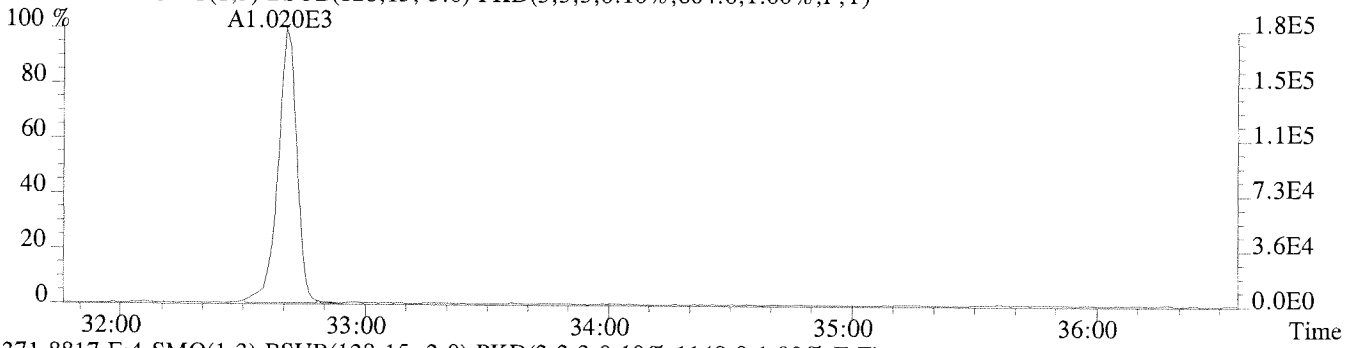
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/25/11 02/28/11

File:U139141 #1-308 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

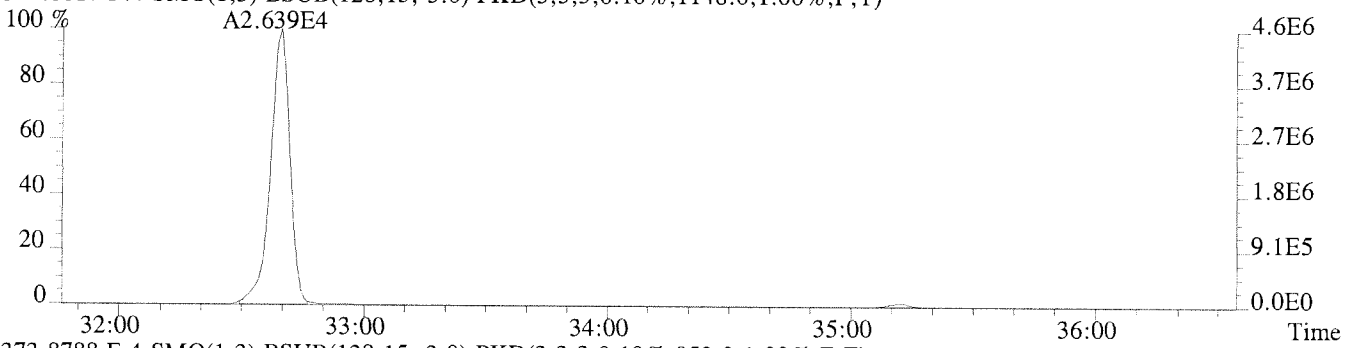
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,760.0,1.00%,F,T)



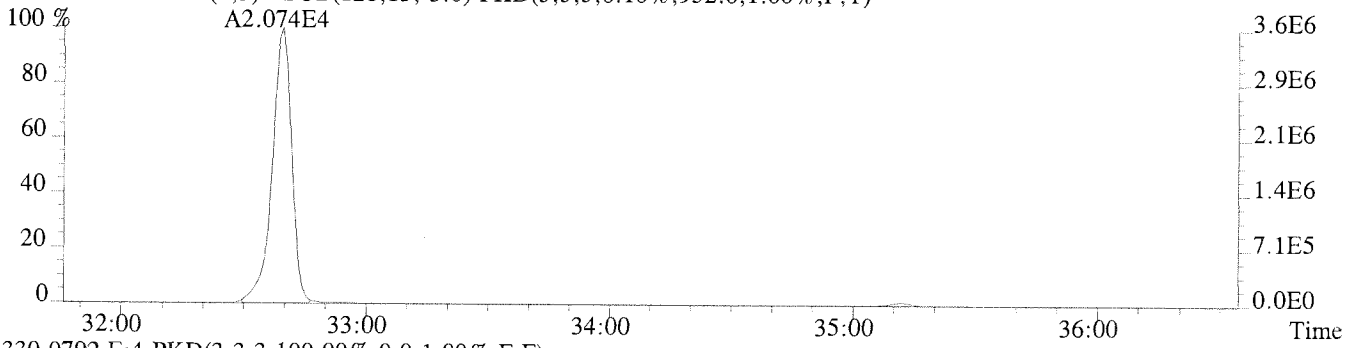
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,804.0,1.00%,F,T)



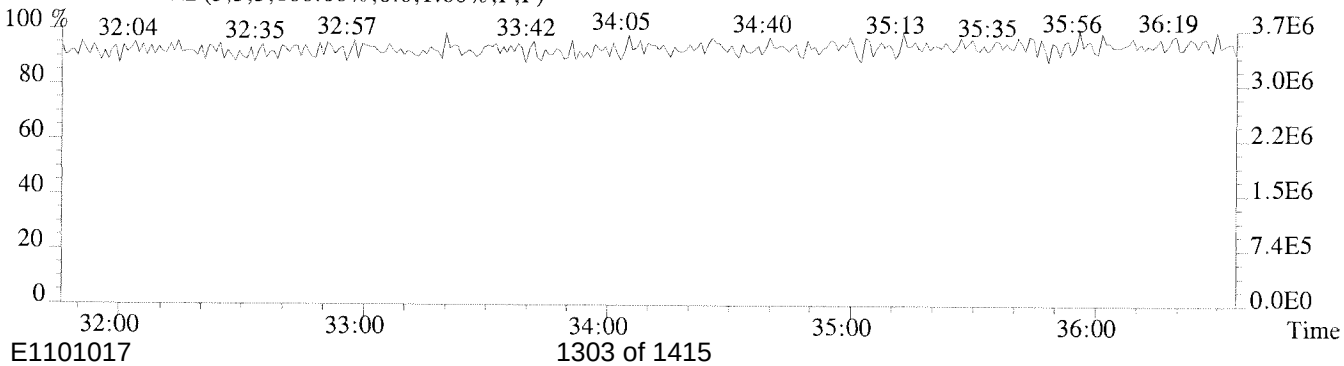
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1148.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)

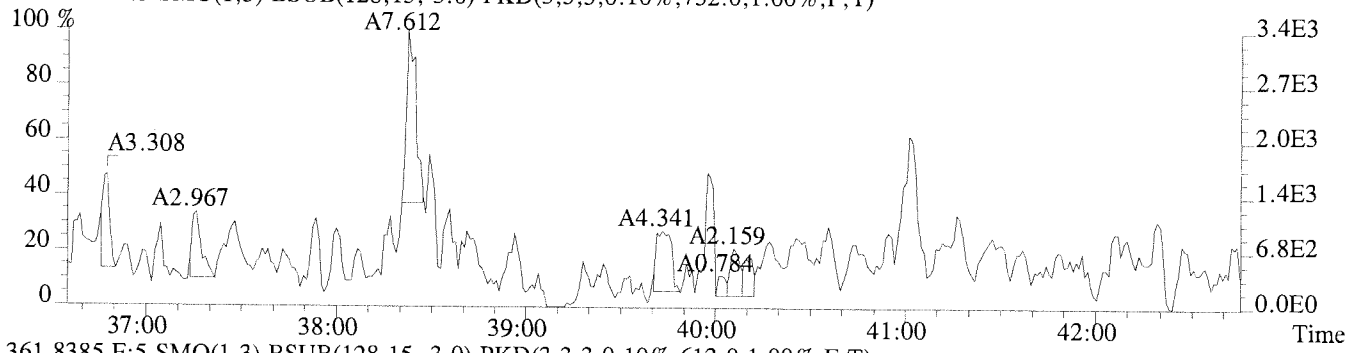


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

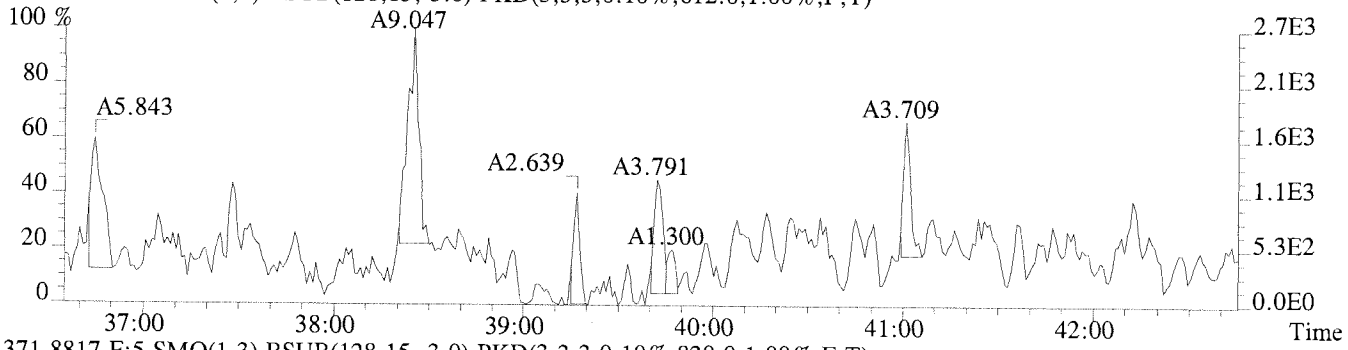


File:U139141 #1-395 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

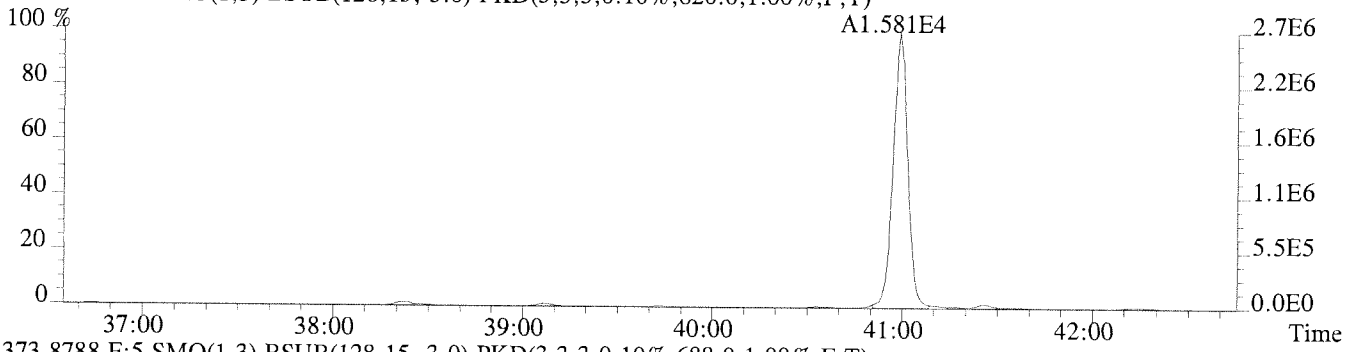
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,732.0,1.00%,F,T)



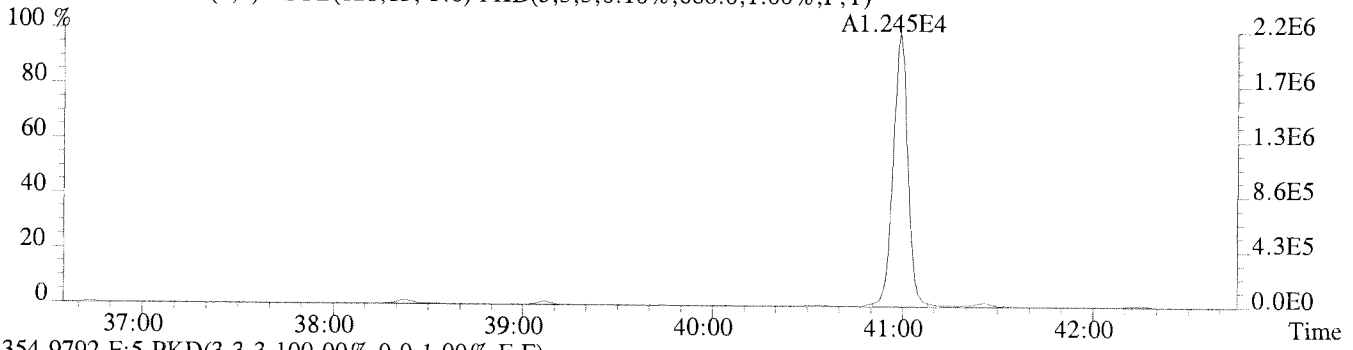
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,612.0,1.00%,F,T)



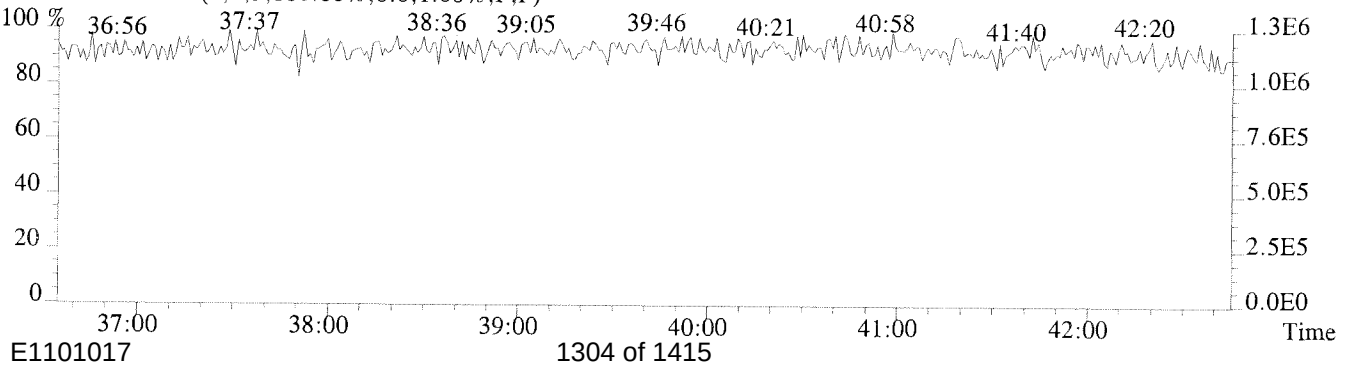
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,688.0,1.00%,F,T)

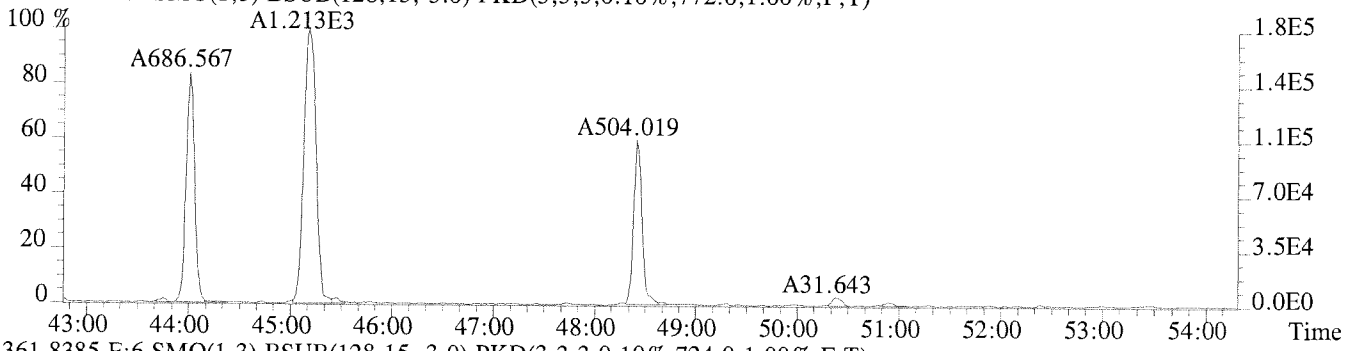


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

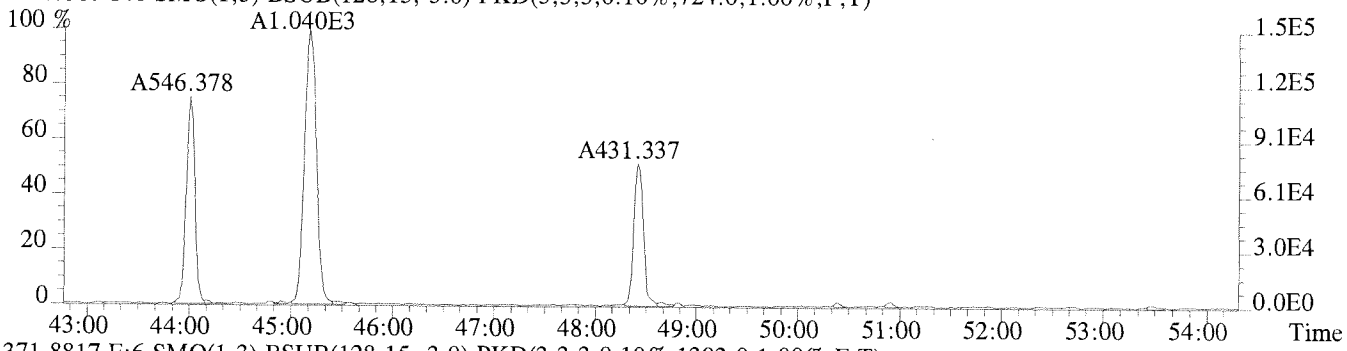


File:U139141 #1-572 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

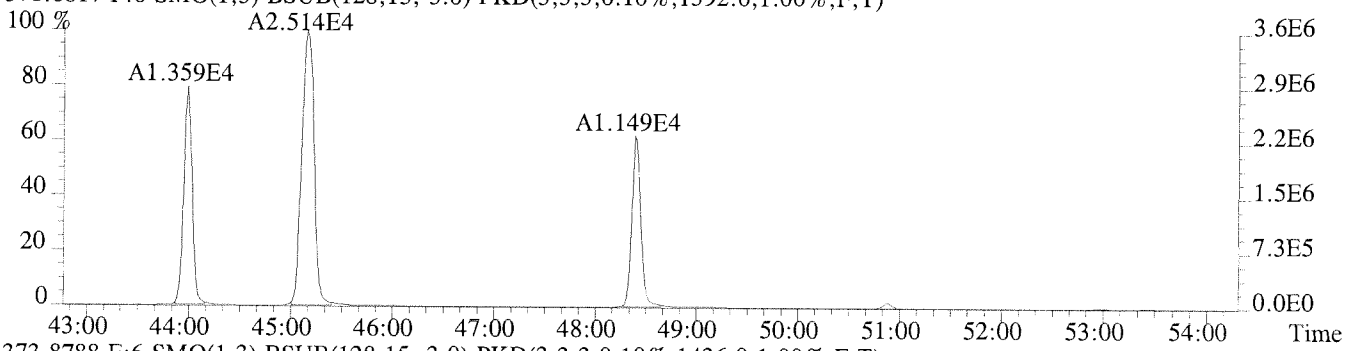
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



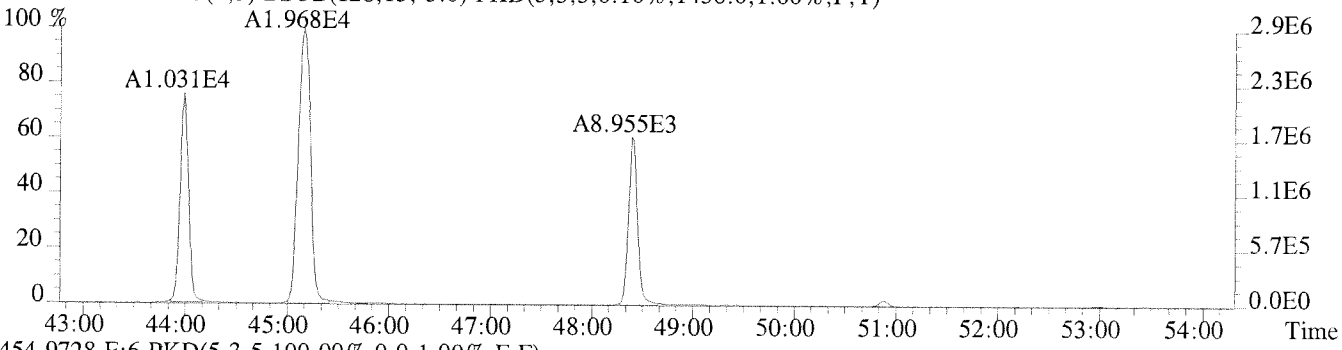
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



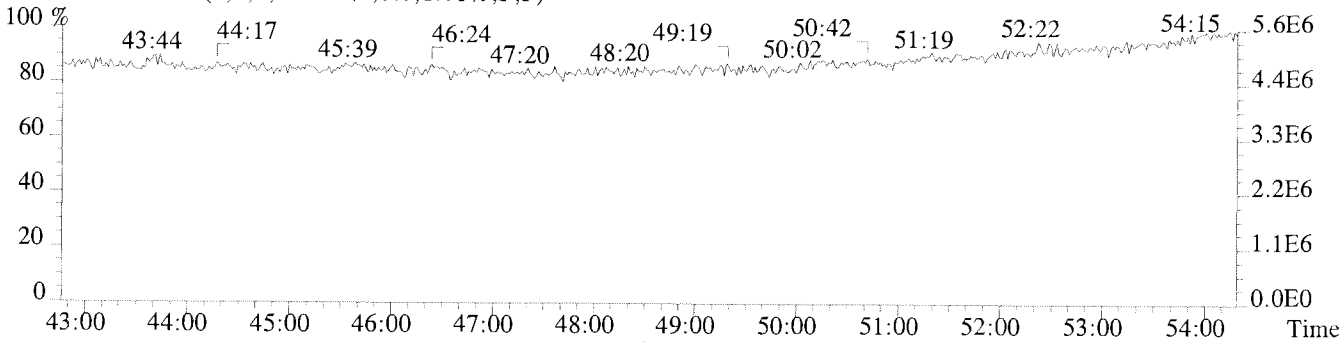
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1392.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1436.0,1.00%,F,T)

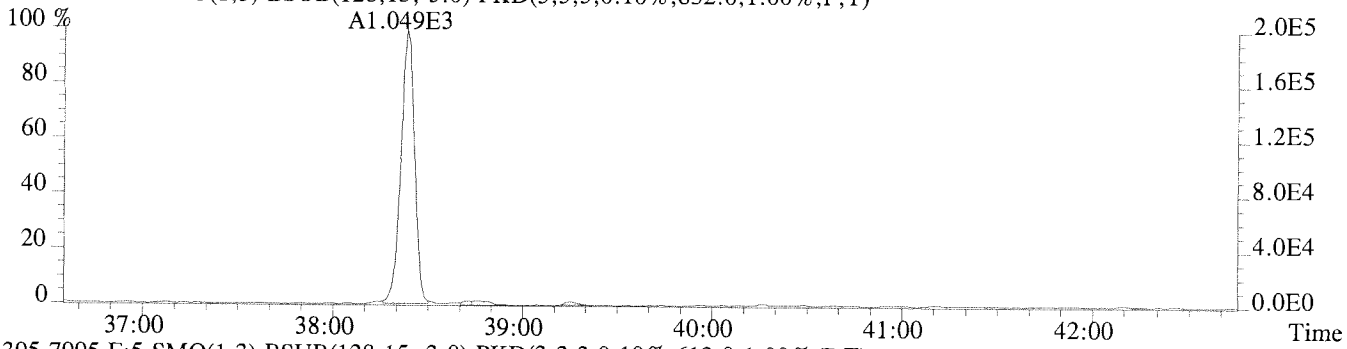


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

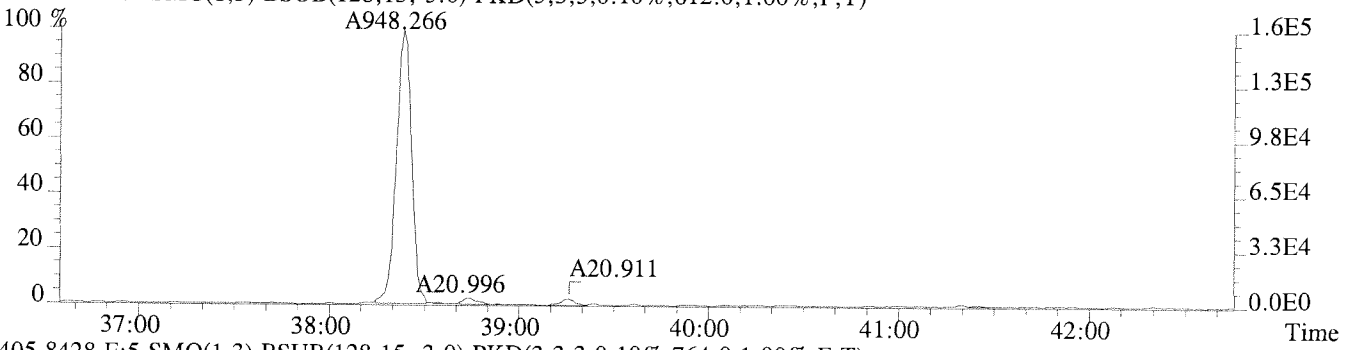


File:U139141 #1-395 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

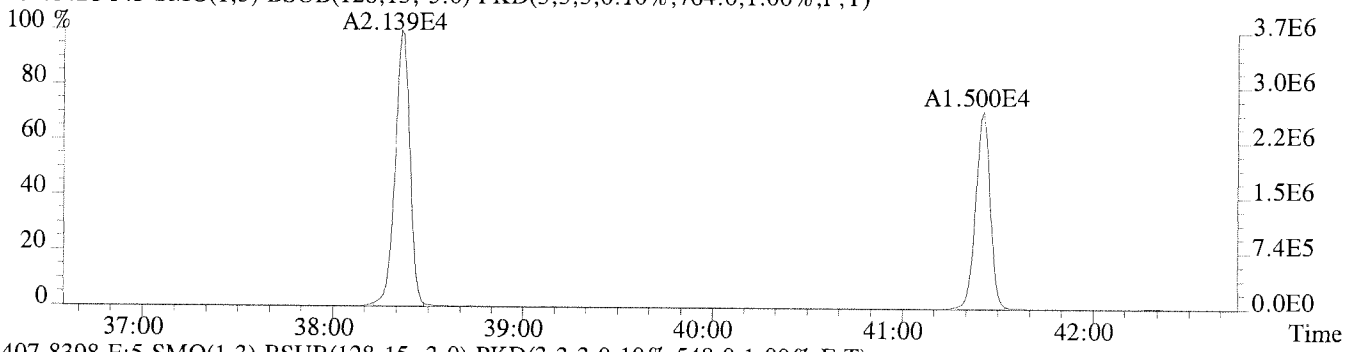
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)



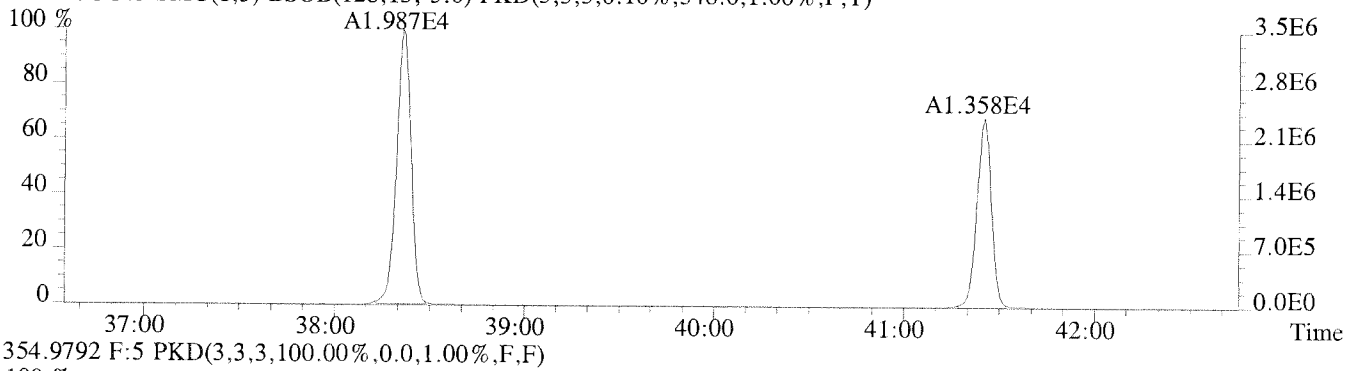
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,612.0,1.00%,F,T)



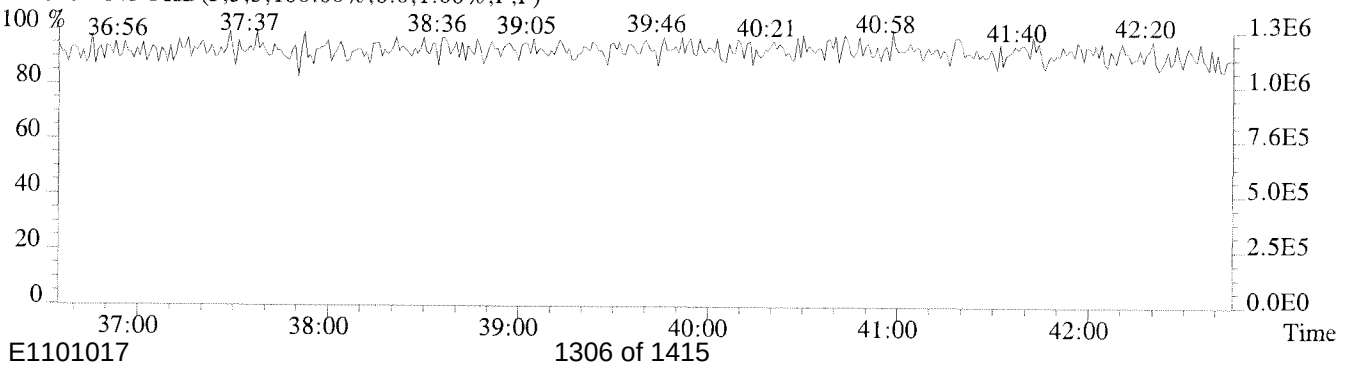
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,764.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,548.0,1.00%,F,T)

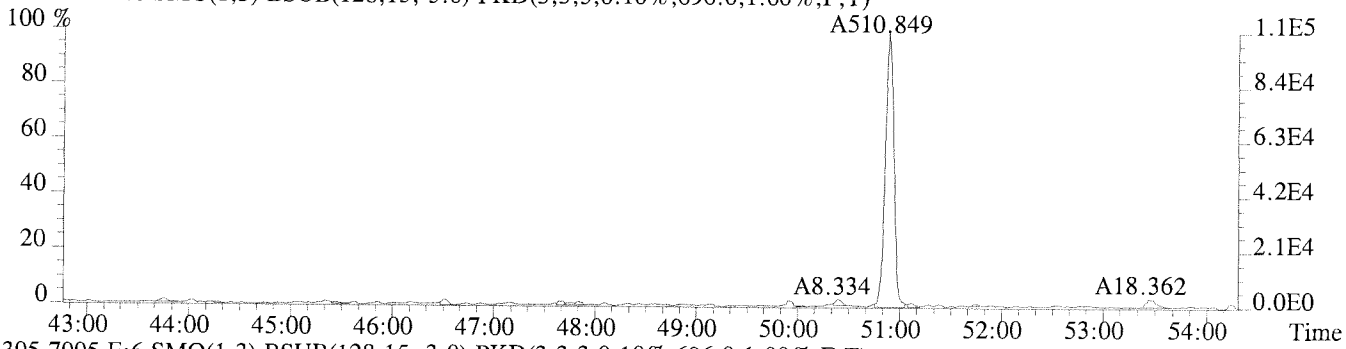


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

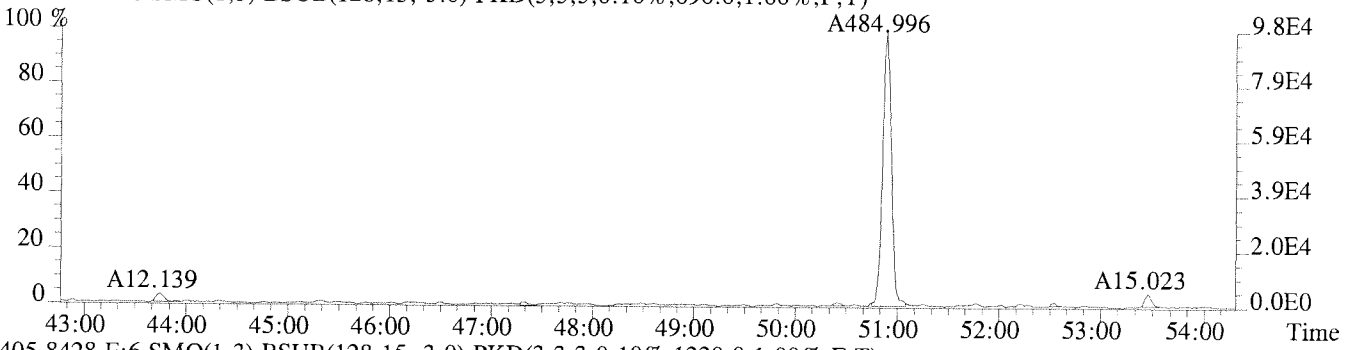


File:U139141 #1-572 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

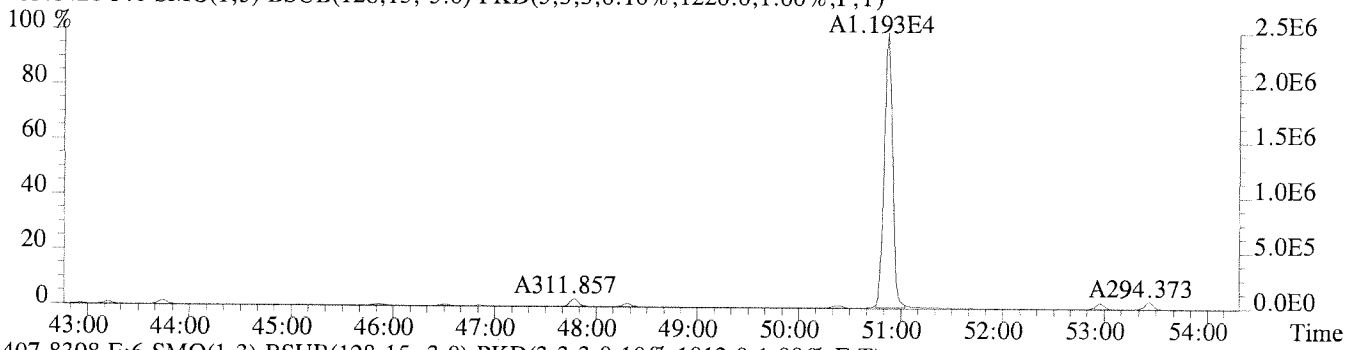
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,696.0,1.00%,F,T)



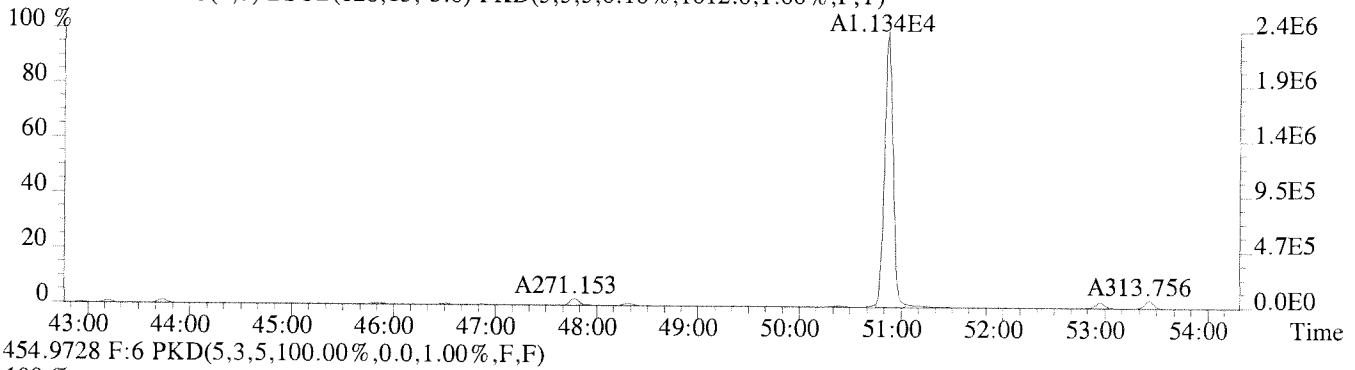
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,696.0,1.00%,F,T)



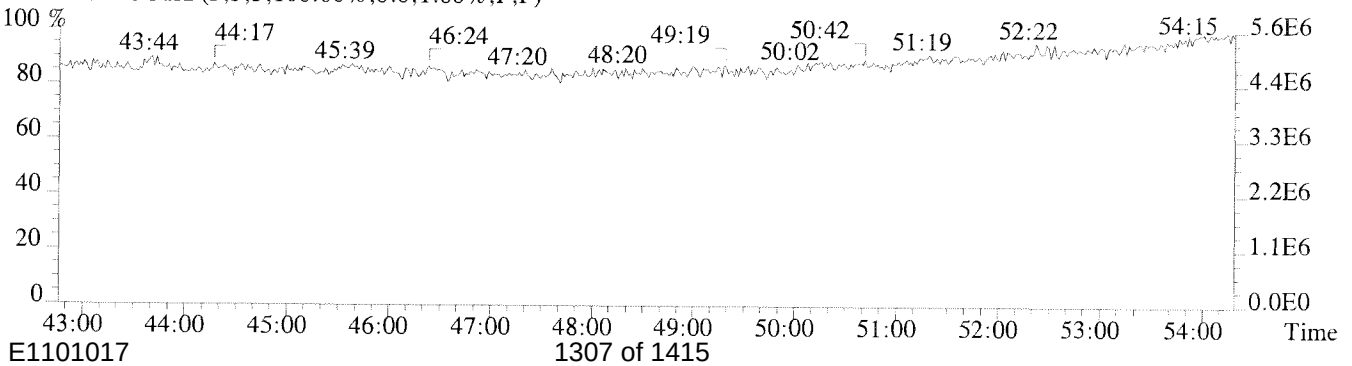
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1220.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1012.0,1.00%,F,T)

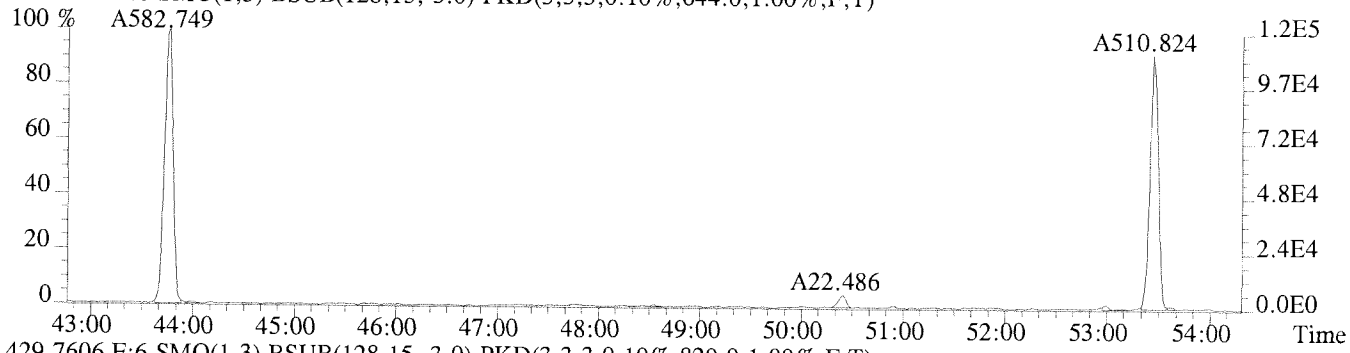


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

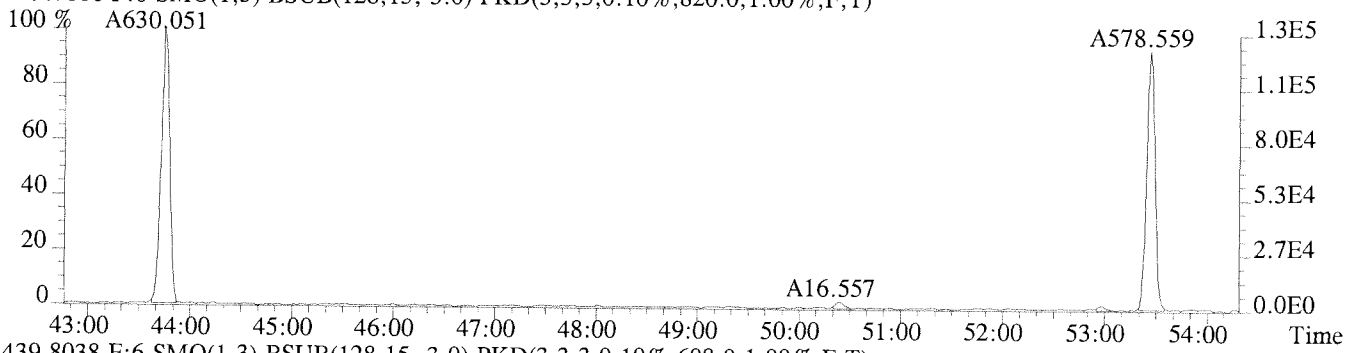


File:U139141 #1-572 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

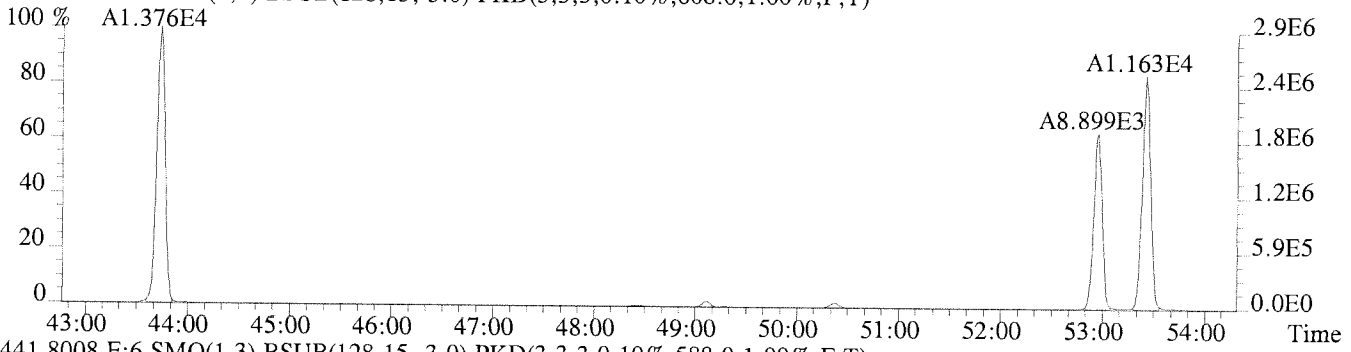
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,644.0,1.00%,F,T)



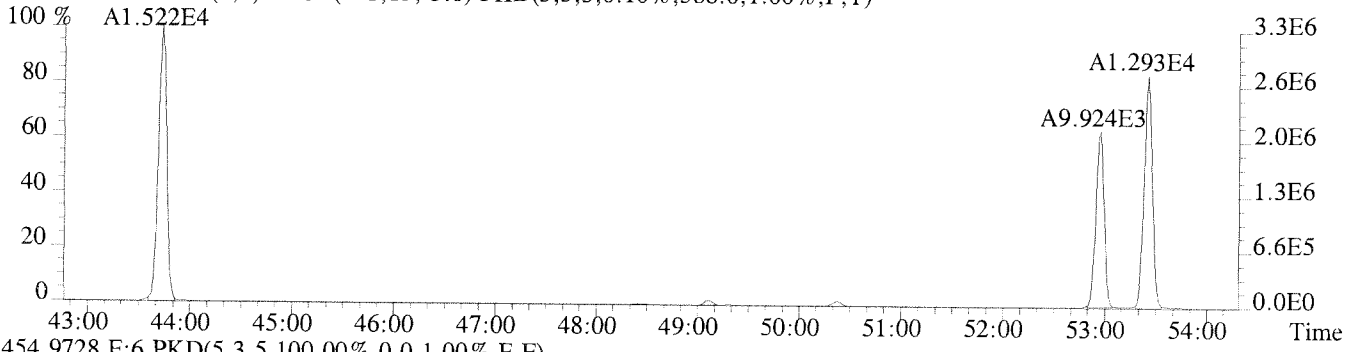
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



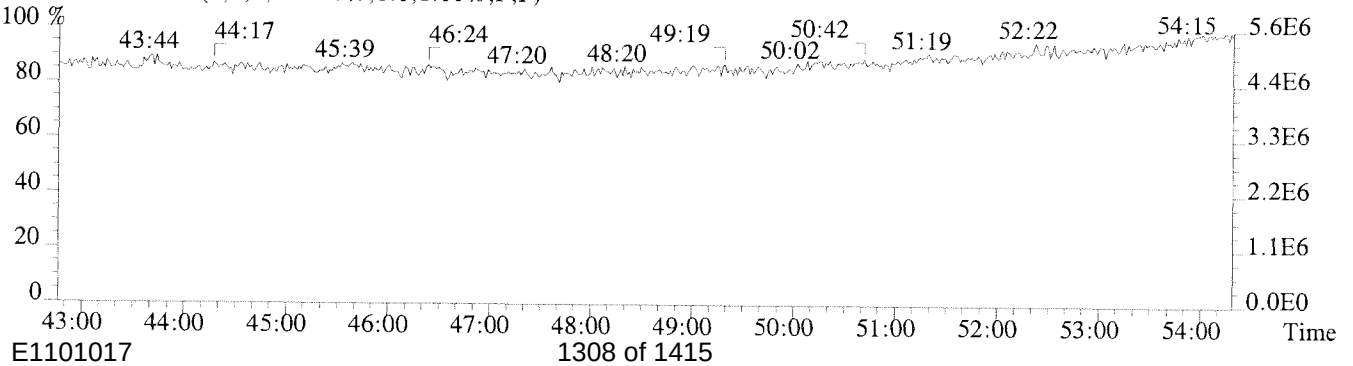
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,608.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,588.0,1.00%,F,T)

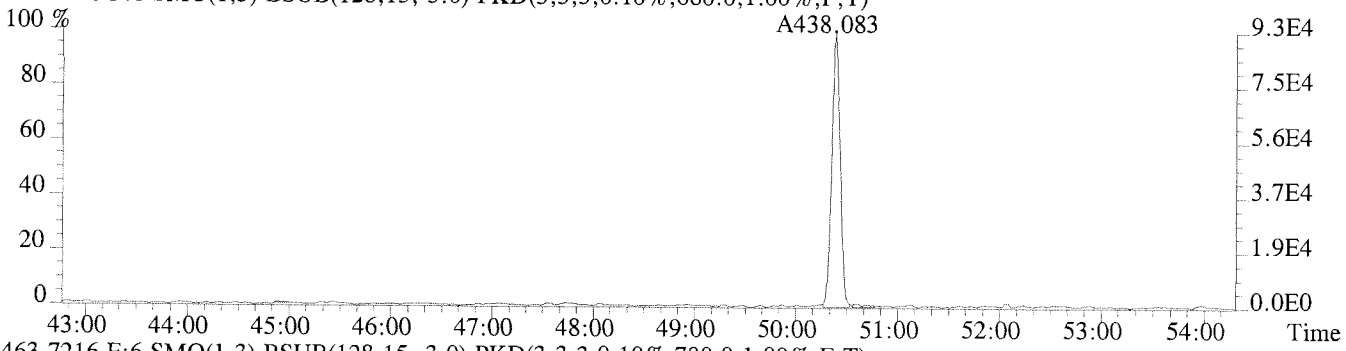


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

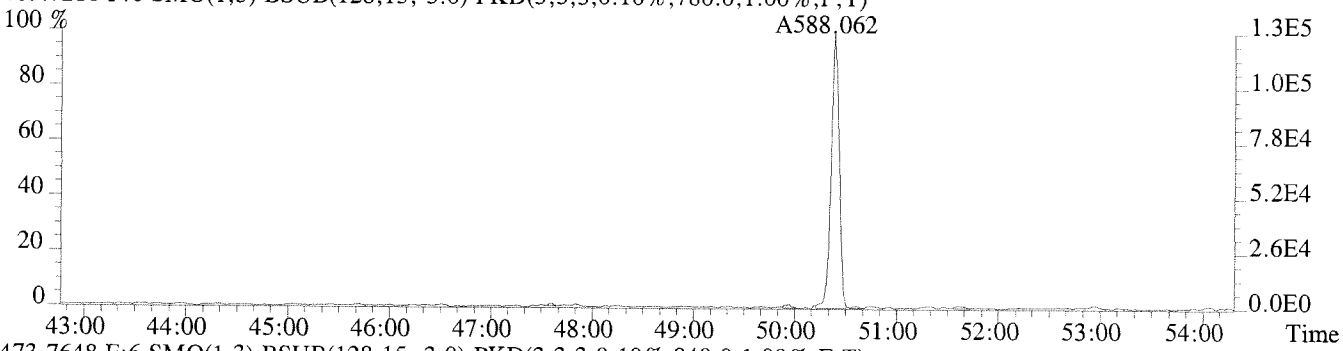


File:U139141 #1-572 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

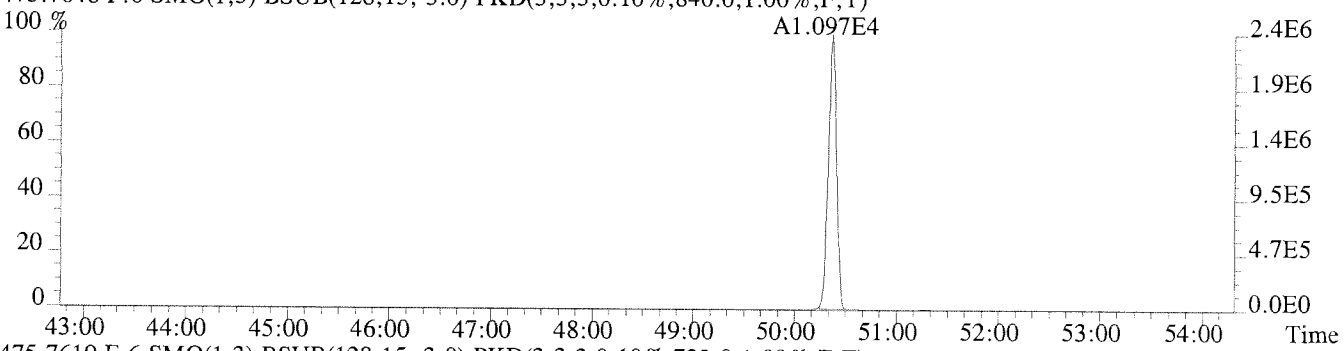
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,680.0,1.00%,F,T)



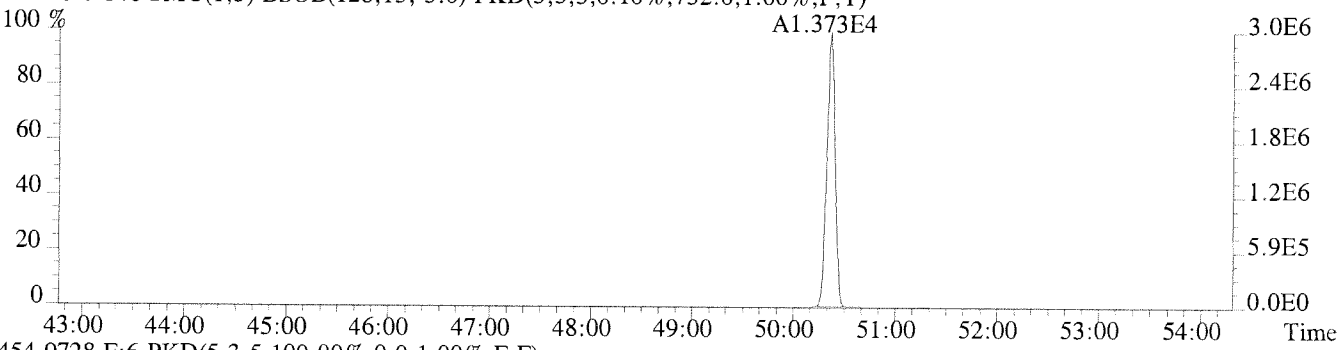
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,780.0,1.00%,F,T)



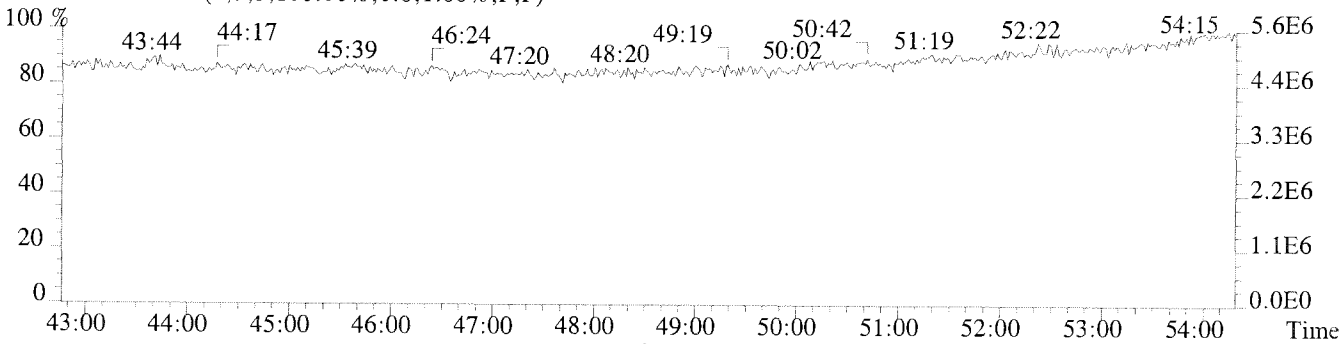
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,840.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,732.0,1.00%,F,T)

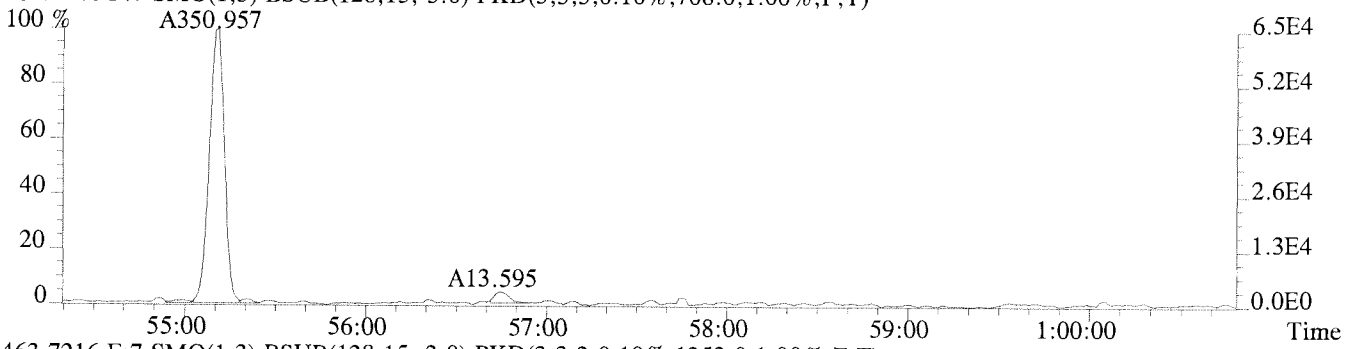


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

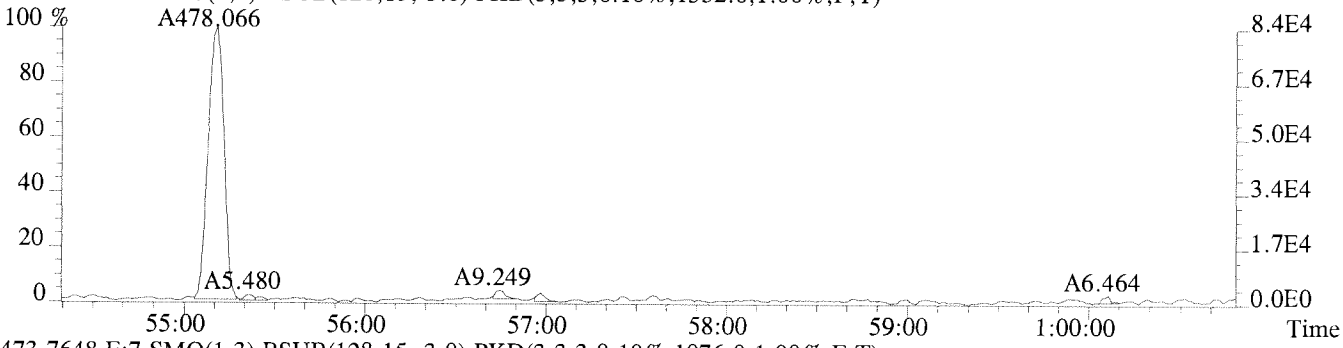


File:U139141 #1-366 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

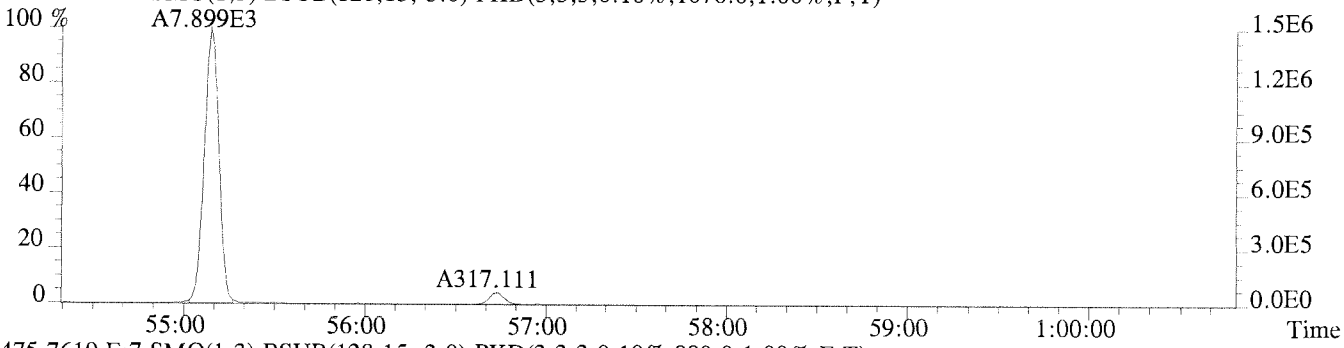
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,708.0,1.00%,F,T)



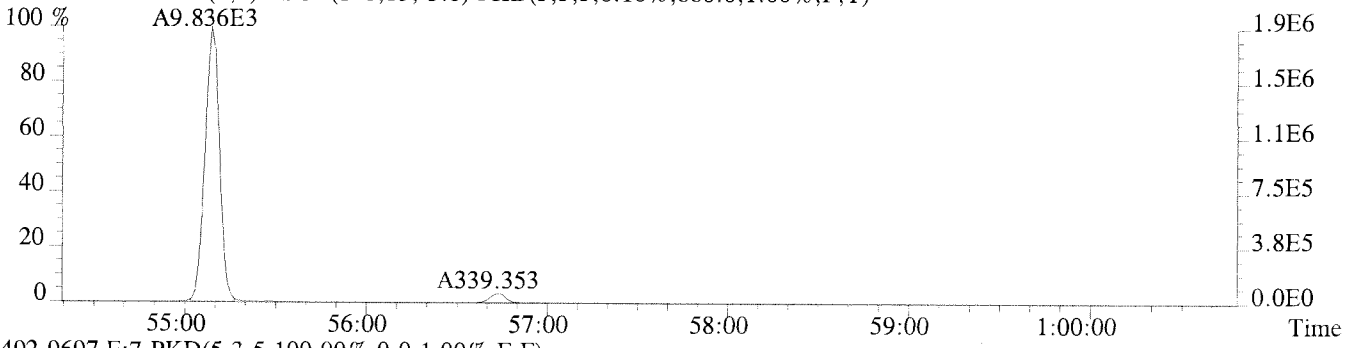
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1352.0,1.00%,F,T)



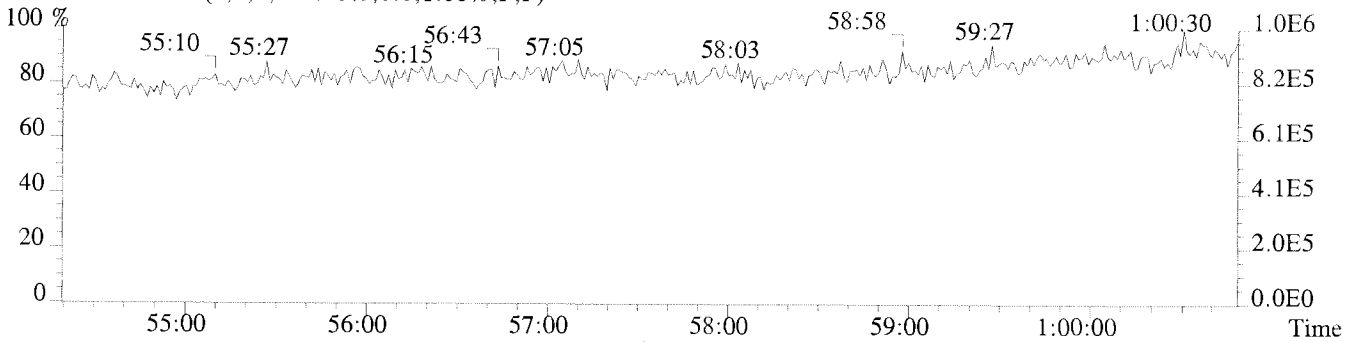
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1076.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)

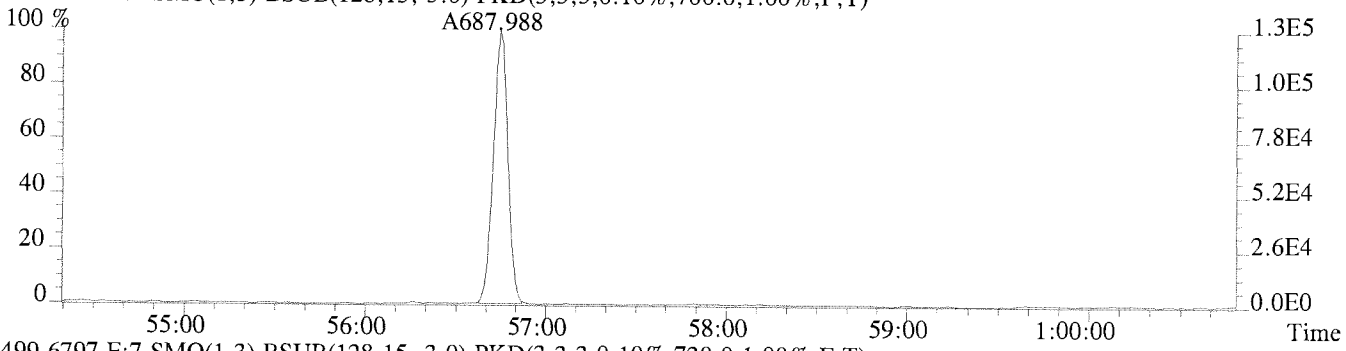


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

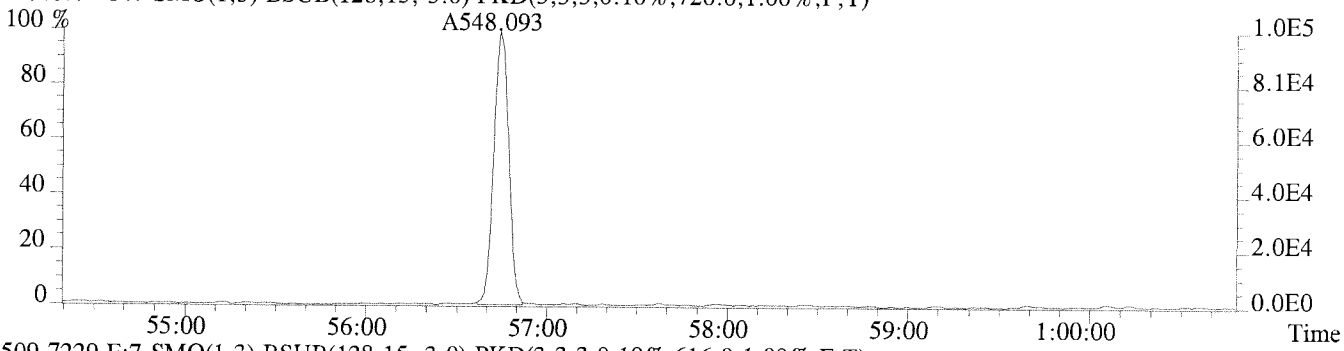


File:U139141 #1-366 Acq:23-FEB-2011 11:58:54 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS2

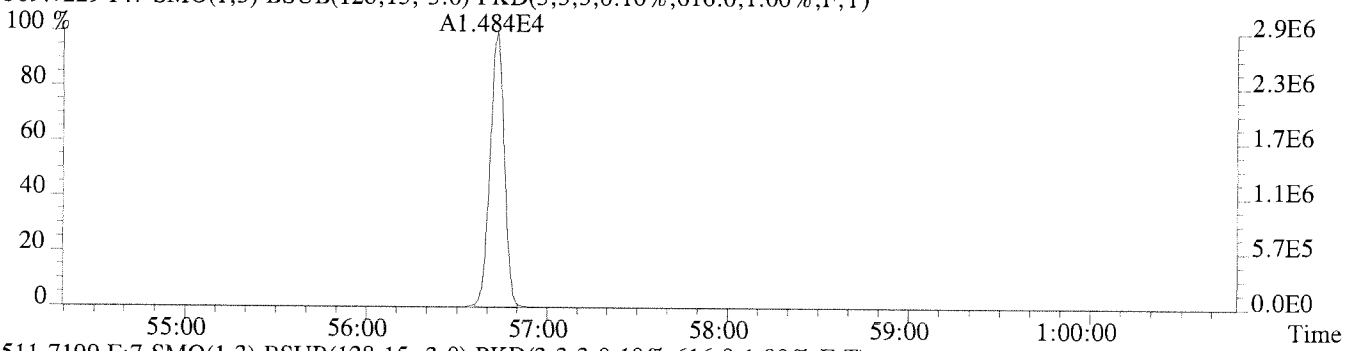
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,700.0,1.00%,F,T)



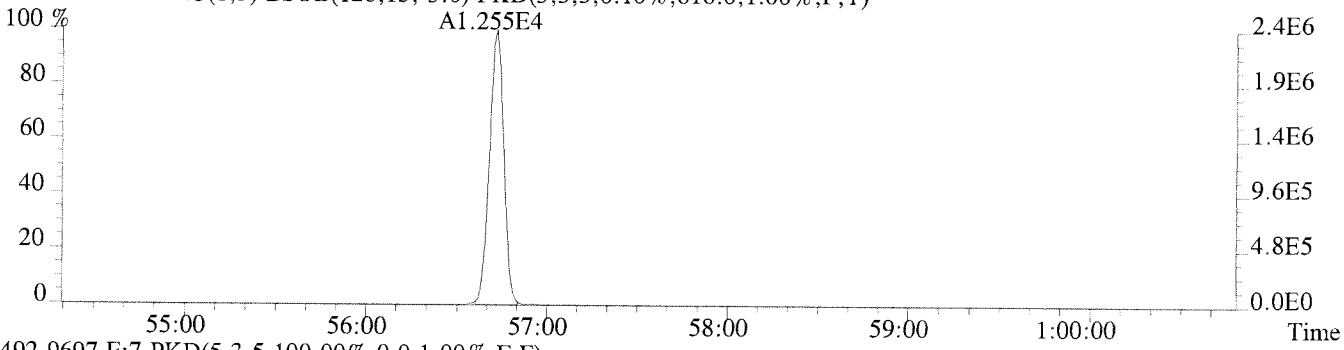
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,720.0,1.00%,F,T)



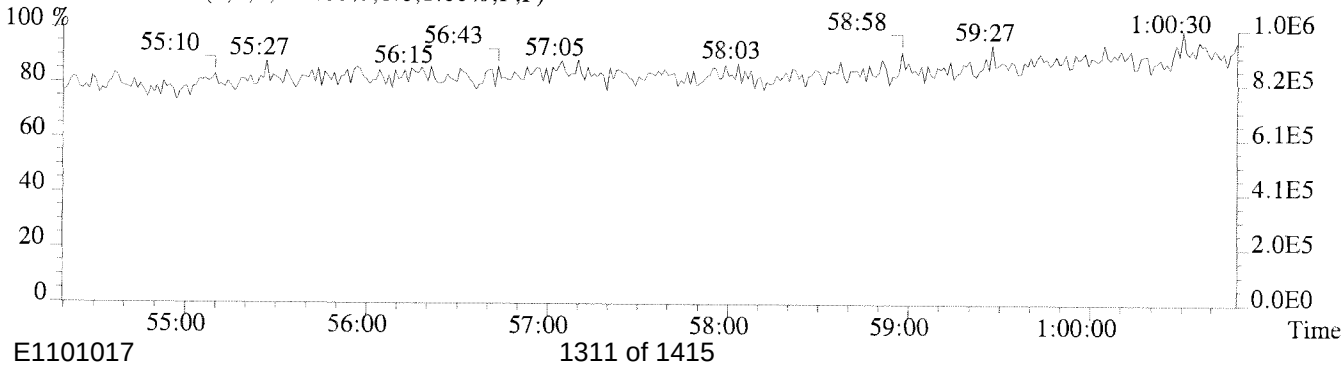
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,616.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,616.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL CS3

Run #3 Filename U139143 #1 Samp: 1 Inj: 1 Acquired: 23-FEB-11 14:38:18
Processed: 24-FEB-11 17:57:07 LAB. ID: ICAL CS3

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?	RRT
1	1	2-MoCB	13:02	3.208e+04	1.031e+04	3.11	yes	no	1.001
2	3	4-MoCB	15:14	3.000e+04	9.553e+03	3.14	yes	no	1.001
3	4	22'-DiCB	15:27	1.748e+04	1.129e+04	1.55	yes	no	1.001
4	15	44'-DiCB	21:23	1.871e+04	1.164e+04	1.61	yes	no	1.002
5	19	22'6'-TrCB	18:33	1.041e+04	1.019e+04	1.02	yes	no	1.001
6	37	344'-TrCB	28:23	1.467e+04	1.384e+04	1.06	yes	no	1.001
7	54	22'66'-TeCB	21:37	1.140e+04	1.477e+04	0.77	yes	no	1.001
8	81	344'5-TeCB	35:06	9.749e+03	1.284e+04	0.76	yes	no	1.001
9	77	33'44'-TeCB	35:40	9.451e+03	1.252e+04	0.75	yes	no	1.000
10	104	22'466'-PeCB	27:04	1.694e+04	1.065e+04	1.59	yes	no	1.001
11	123	2'344'5-PeCB	37:36	1.240e+04	8.046e+03	1.54	yes	no	1.000
12	118	23'44'5-PeCB	37:56	1.288e+04	8.063e+03	1.60	yes	no	1.001
13	114	2344'5-PeCB	38:28	1.266e+04	8.074e+03	1.57	yes	no	1.001
14	105	233'44'-PeCB	39:07	1.225e+04	7.891e+03	1.55	yes	no	1.000
15	126	33'44'5-PeCB	42:13	1.117e+04	6.797e+03	1.64	yes	no	1.000
16	155	22'44'66'-HxCB	32:42	1.484e+04	1.189e+04	1.25	yes	no	1.001
17	167	23'44'55'-HxCB	44:02	7.943e+03	6.446e+03	1.23	yes	no	1.001
18	156/7	233'44'5-HxCB	45:12	1.498e+04	1.197e+04	1.25	yes	no	1.000
19	169	33'44'55'-HxCB	48:26	6.375e+03	5.019e+03	1.27	yes	no	1.000
20	188	22'34'566'-HpCB	38:24	1.205e+04	1.165e+04	1.03	yes	no	1.000
21	189	233'44'55'-HpCB	50:55	5.652e+03	5.485e+03	1.03	yes	no	1.001
22	202	22'33'55'66'-OcCB	43:46	6.857e+03	7.745e+03	0.89	yes	no	1.000
23	205	233'44'55'6-OcCB	53:28	5.607e+03	6.339e+03	0.88	yes	no	1.000
24	208	22'33'4'55'66'-NoCB	50:25	5.186e+03	6.590e+03	0.79	yes	no	1.001
25	206	22'33'44'55'6-NoCB	55:11	3.794e+03	4.902e+03	0.77	yes	no	1.000
26	209	DeCB	56:46	7.151e+03	6.118e+03	1.17	yes	no	1.000
27	1L	13C-2-MoCB	13:01	6.007e+04	1.958e+04	3.07	yes	no	0.748
28	3L	13C-4-MoCB	15:13	5.636e+04	1.786e+04	3.16	yes	yes	0.875
29	4L	13C-22'-DiCB	15:26	3.142e+04	1.976e+04	1.59	yes	no	0.887
30	15L	13C-44'-DiCB	21:21	3.731e+04	2.397e+04	1.56	yes	no	1.227
31	19L	13C-22'6'-TrCB	18:32	2.060e+04	1.955e+04	1.05	yes	no	1.065
32	37L	13C-344'-TrCB	28:21	2.670e+04	2.505e+04	1.07	yes	no	1.085
33	54L	13C-22'66'-TeCB	21:36	2.209e+04	2.760e+04	0.80	yes	no	0.827
34	81L	13C-344'5-TeCB	35:04	1.877e+04	2.369e+04	0.79	yes	no	1.342
35	77L	13C-33'44'-TeCB	35:39	1.869e+04	2.341e+04	0.80	yes	no	1.364
36	104L	13C-22'466'-PeCB	27:03	3.187e+04	2.053e+04	1.55	yes	no	0.821
37	123L	13C-2'344'5-PeCB	37:35	2.414e+04	1.532e+04	1.58	yes	no	1.141
38	118L	13C-23'44'5-PeCB	37:54	2.583e+04	1.631e+04	1.58	yes	no	1.150
39	114L	13C-2344'5-PeCB	38:26	2.408e+04	1.526e+04	1.58	yes	no	1.166
40	105L	13C-233'44'-PeCB	39:07	2.338e+04	1.479e+04	1.58	yes	no	1.187
41	126L	13C-33'44'5-PeCB	42:12	2.090e+04	1.333e+04	1.57	yes	no	1.281
42	155L	13C-22'44'66'-HxCB	32:41	2.878e+04	2.305e+04	1.25	yes	no	0.797
43	167L	13C-23'44'55'-HxCB	44:00	1.561e+04	1.219e+04	1.28	yes	no	1.073
44	156/7	13C-233'44'5'-HxCB	45:11	2.938e+04	2.337e+04	1.26	yes	no	1.102
45	169L	13C-33'44'55'-HxCB	48:25	1.217e+04	9.481e+03	1.28	yes	no	1.181
46	188L	13C-22'34'566'-HpCB	38:23	2.450e+04	2.315e+04	1.06	yes	no	0.725
47	189L	13C-233'44'55'-HpCB	50:53	1.210e+04	1.159e+04	1.04	yes	no	0.961
48	202L	13C-22'33'55'66'-OcCB	43:45	1.530e+04	1.681e+04	0.91	yes	no	0.826
49	205L	13C-233'44'55'6-OcCB	53:27	1.210e+04	1.375e+04	0.88	yes	no	1.009
50	208L	13C-22'33'4'55'66'-NoCB	50:22	1.109e+04	1.392e+04	0.80	yes	no	0.951
51	206L	13C-22'33'44'55'6-NoCB	55:10	7.825e+03	1.020e+04	0.77	yes	no	1.042
52	209L	13C-DeCB	56:45	1.516e+04	1.299e+04	1.17	yes	no	1.072

53	28L	13C-244'-TrCB	24:19	3.112e+04	2.939e+04	1.06	yes	no	0.930
54	111L	13C-233'55'-PeCB	35:36	2.793e+04	1.790e+04	1.56	yes	no	1.080
55	178L	13C-22'33'55'6-HpCB	41:26	1.497e+04	1.396e+04	1.07	yes	no	1.011
56	9L	13C-2,5-DiCB	17:24	3.867e+04	2.473e+04	1.56	yes	no	*
57	52L	13C-22'55'-TeCB	26:08	1.887e+04	2.405e+04	0.78	yes	no	*
58	101L	13C-22'4'55'-PeCB	32:57	2.257e+04	1.448e+04	1.56	yes	no	*
59	138L	13C-22'3'44'5'-HxCB	41:00	1.863e+04	1.471e+04	1.27	yes	no	*
60	194L	13C-22'33'44'55'-OcCB	52:57	8.655e+03	9.584e+03	0.90	yes	no	*

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL CS3

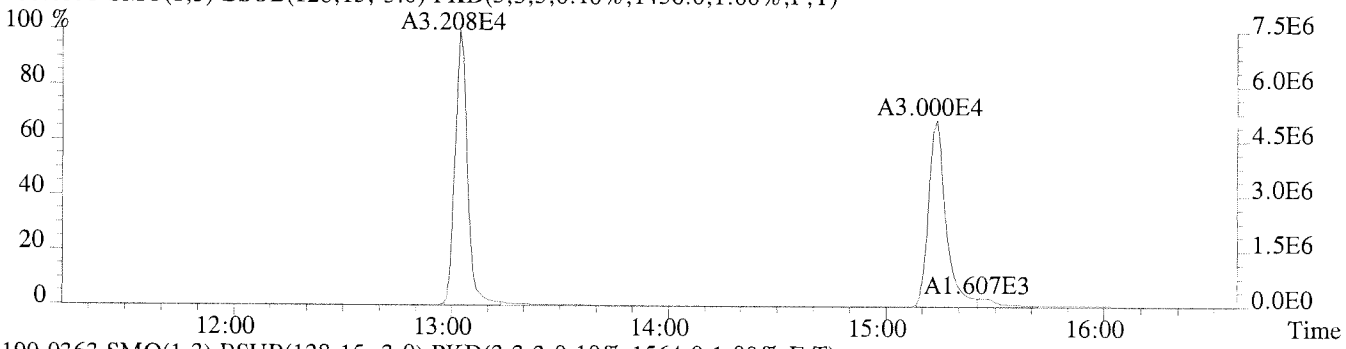
#3 Filename U139143 Samp: 1 Inj: 1 Acquired: 23-FEB-11 14:38:18
Processed: 24-FEB-11 17:57:071 LAB. ID: ICAL CS3

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	7.47e+06	1.46e+03	5.1e+03	2.42e+06	1.56e+03	1.6e+03
2	4-MoCB	5.07e+06	1.46e+03	3.5e+03	1.61e+06	1.56e+03	1.0e+03
3	22'-DiCB	3.50e+06	3.08e+03	1.1e+03	2.26e+06	7.80e+03	2.9e+02
4	44'-DiCB	2.73e+06	2.66e+03	1.0e+03	1.73e+06	7.05e+03	2.4e+02
5	22'6'-TrCB	2.06e+06	1.08e+03	1.9e+03	2.01e+06	1.07e+03	1.9e+03
6	344'-TrCB	1.88e+06	1.63e+03	1.2e+03	1.78e+06	1.42e+03	1.3e+03
7	22'66'-TeCB	2.12e+06	5.40e+02	3.9e+03	2.74e+06	7.16e+02	3.8e+03
8	344'5-TeCB	1.42e+06	8.68e+02	1.6e+03	1.84e+06	9.76e+02	1.9e+03
9	33'44'-TeCB	1.31e+06	8.68e+02	1.5e+03	1.69e+06	9.76e+02	1.7e+03
10	22'466'-PeCB	2.93e+06	7.88e+02	3.7e+03	1.84e+06	1.16e+03	1.6e+03
11	2'344'5-PeCB	2.09e+06	6.12e+03	3.4e+02	1.36e+06	4.10e+03	3.3e+02
12	23'44'5-PeCB	2.11e+06	6.12e+03	3.4e+02	1.34e+06	4.10e+03	3.3e+02
13	2344'5-PeCB	2.14e+06	6.12e+03	3.5e+02	1.37e+06	4.10e+03	3.3e+02
14	233'44'-PeCB	1.96e+06	6.12e+03	3.2e+02	1.26e+06	4.10e+03	3.1e+02
15	33'44'5-PeCB	1.62e+06	6.12e+03	2.7e+02	1.03e+06	4.10e+03	2.5e+02
16	22'44'66'-HxCB	2.63e+06	7.56e+02	3.5e+03	2.09e+06	9.28e+02	2.3e+03
17	23'44'55'-HxCB	1.66e+06	1.37e+03	1.2e+03	1.34e+06	8.40e+02	1.6e+03
18	233'44'5-HxCB	2.16e+06	1.37e+03	1.6e+03	1.73e+06	8.40e+02	2.1e+03
19	33'44'55'-HxCB	1.28e+06	1.37e+03	9.3e+02	1.03e+06	8.40e+02	1.2e+03
20	22'34'566'-HpCB	2.16e+06	5.88e+02	3.7e+03	2.09e+06	6.72e+02	3.1e+03
21	233'44'55'-HpCB	1.15e+06	8.72e+02	1.3e+03	1.11e+06	8.12e+02	1.4e+03
22	22'33'55'66'-OcCB	1.52e+06	5.44e+02	2.8e+03	1.67e+06	8.44e+02	2.0e+03
23	233'44'55'6-OcCB	1.20e+06	5.44e+02	2.2e+03	1.35e+06	8.44e+02	1.6e+03
24	22'33'4'55'66'-NoCB	1.10e+06	4.80e+02	2.3e+03	1.39e+06	5.52e+02	2.5e+03
25	22'33'44'55'6-NoCB	7.24e+05	8.20e+02	8.8e+02	9.50e+05	1.19e+03	8.0e+02
26	DeCB	1.40e+06	6.48e+02	2.2e+03	1.19e+06	7.72e+02	1.5e+03
27	13C-2-MoCB	1.38e+07	1.28e+03	1.1e+04	4.55e+06	3.48e+04	1.3e+02
28	13C-4-MoCB	9.62e+06	1.28e+03	7.5e+03	3.05e+06	3.48e+04	8.8e+01
29	13C-22'-DiCB	6.28e+06	3.99e+03	1.6e+03	3.95e+06	1.97e+03	2.0e+03
30	13C-44'-DiCB	5.56e+06	5.84e+03	9.5e+02	3.55e+06	1.46e+03	2.4e+03
31	13C-22'6'-TrCB	4.09e+06	1.79e+04	2.3e+02	3.91e+06	1.11e+04	3.5e+02
32	13C-344'-TrCB	3.53e+06	1.20e+04	2.9e+02	3.26e+06	8.45e+03	3.9e+02
33	13C-22'66'-TeCB	4.19e+06	1.96e+03	2.1e+03	5.20e+06	8.12e+02	6.4e+03
34	13C-344'5-TeCB	2.78e+06	1.80e+03	1.5e+03	3.55e+06	1.49e+03	2.4e+03
35	13C-33'44'-TeCB	2.62e+06	1.80e+03	1.5e+03	3.20e+06	1.49e+03	2.1e+03
36	13C-22'466'-PeCB	5.38e+06	9.24e+02	5.8e+03	3.48e+06	8.52e+02	4.1e+03
37	13C-2'344'5-PeCB	4.10e+06	1.42e+04	2.9e+02	2.57e+06	5.72e+03	4.5e+02
38	13C-23'44'5-PeCB	4.27e+06	1.42e+04	3.0e+02	2.68e+06	5.72e+03	4.7e+02
39	13C-2344'5-PeCB	4.07e+06	1.42e+04	2.9e+02	2.58e+06	5.72e+03	4.5e+02
40	13C-233'44'-PeCB	3.80e+06	1.42e+04	2.7e+02	2.42e+06	5.72e+03	4.2e+02
41	13C-33'44'5-PeCB	3.22e+06	1.42e+04	2.3e+02	2.02e+06	5.72e+03	3.5e+02
42	13C-22'44'66'-HxCB	5.10e+06	9.20e+02	5.5e+03	4.04e+06	8.60e+02	4.7e+03
43	13C-23'44'55'-HxCB	3.25e+06	4.84e+03	6.7e+02	2.53e+06	3.22e+03	7.9e+02
44	13C-233'44'5'-HxCB	4.32e+06	4.84e+03	8.9e+02	3.39e+06	3.22e+03	1.1e+03
45	13C-33'44'55'-HxCB	2.41e+06	4.84e+03	5.0e+02	1.90e+06	3.22e+03	5.9e+02
46	13C-22'34'566'-HpCB	4.32e+06	6.60e+02	6.5e+03	4.07e+06	5.20e+02	7.8e+03
47	13C-233'44'55'-HpCB	2.48e+06	1.00e+03	2.5e+03	2.38e+06	1.16e+03	2.0e+03
48	13C-22'33'55'66'-OcCB	3.36e+06	7.40e+02	4.5e+03	3.68e+06	7.12e+02	5.2e+03
49	13C-233'44'55'6-OcCB	2.57e+06	7.40e+02	3.5e+03	2.90e+06	7.12e+02	4.1e+03
50	13C-22'33'4'55'66'-NoCB	2.35e+06	6.68e+02	3.5e+03	2.95e+06	6.64e+02	4.4e+03
51	13C-22'33'44'55'6-NoCB	1.54e+06	1.00e+03	1.5e+03	1.97e+06	1.00e+03	2.0e+03
52	13C-DeCB	2.88e+06	8.76e+02	3.3e+03	2.45e+06	6.76e+02	3.6e+03

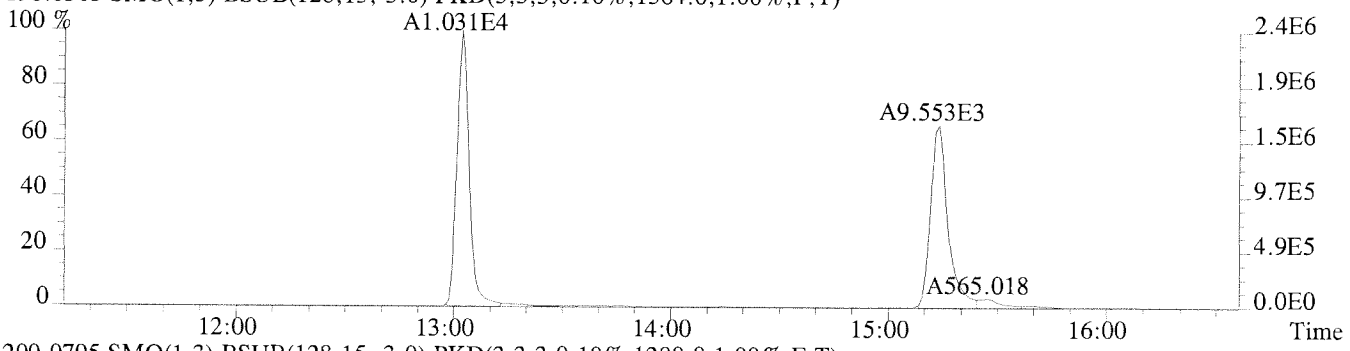
13C-244'-TrCB	4.60e+06	1.20e+04	3.8e+02	4.35e+06	8.45e+03	5.1e+02
13C-233'55'-PeCB	4.83e+06	2.12e+03	2.3e+03	3.12e+06	1.24e+03	2.5e+03
13C-22'33'55'6-HpCB	2.64e+06	6.60e+02	4.0e+03	2.49e+06	5.20e+02	4.8e+03
13C-2,5-DiCB	7.45e+06	5.84e+03	1.3e+03	4.75e+06	1.46e+03	3.3e+03
13C-22'55'-TeCB	3.07e+06	2.04e+03	1.5e+03	3.89e+06	1.72e+03	2.3e+03
13C-22'4'55'-PeCB	3.91e+06	2.12e+03	1.8e+03	2.47e+06	1.24e+03	2.0e+03
13C-22'3'44'5'-HxCB	3.24e+06	1.14e+03	2.9e+03	2.57e+06	7.08e+02	3.6e+03
13C-22'33'44'55'-OcCB	1.86e+06	7.40e+02	2.5e+03	2.05e+06	7.12e+02	2.9e+03

File:U139143 #1-347 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

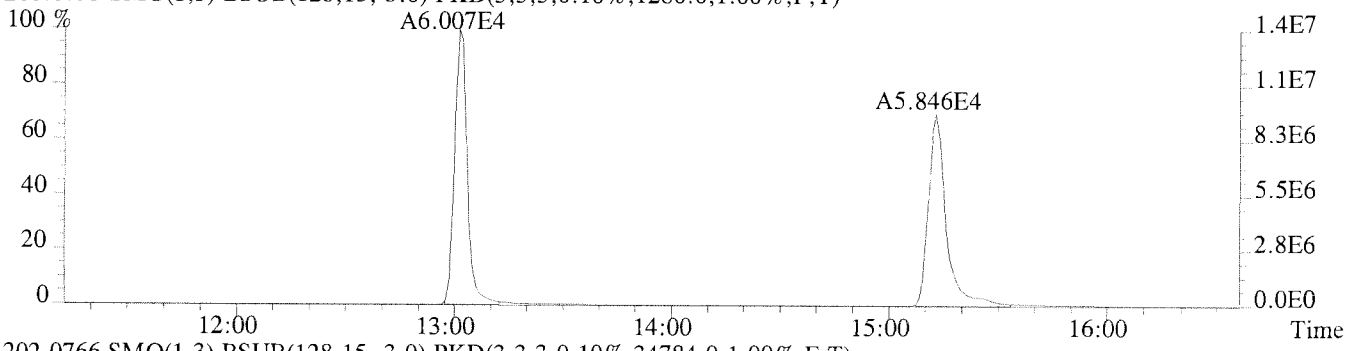
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1456.0,1.00%,F,T)



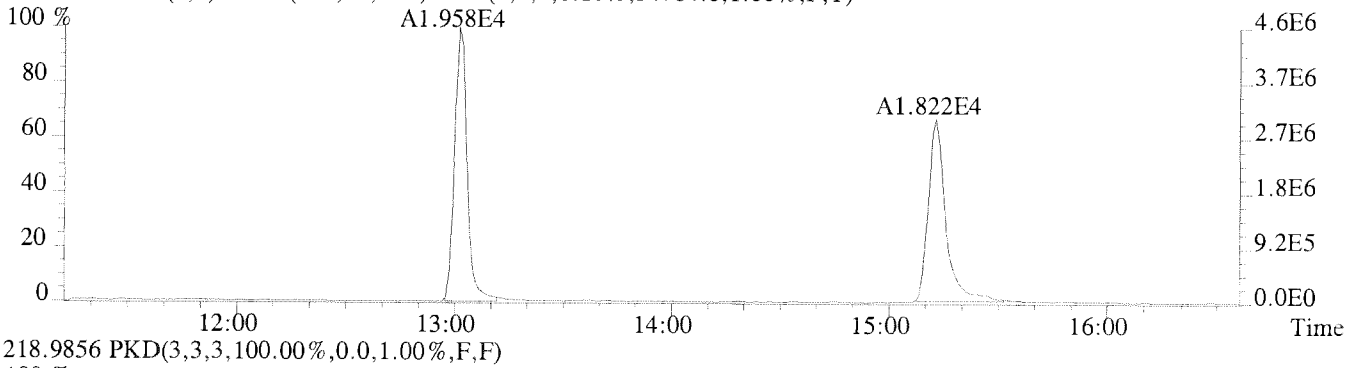
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1564.0,1.00%,F,T)



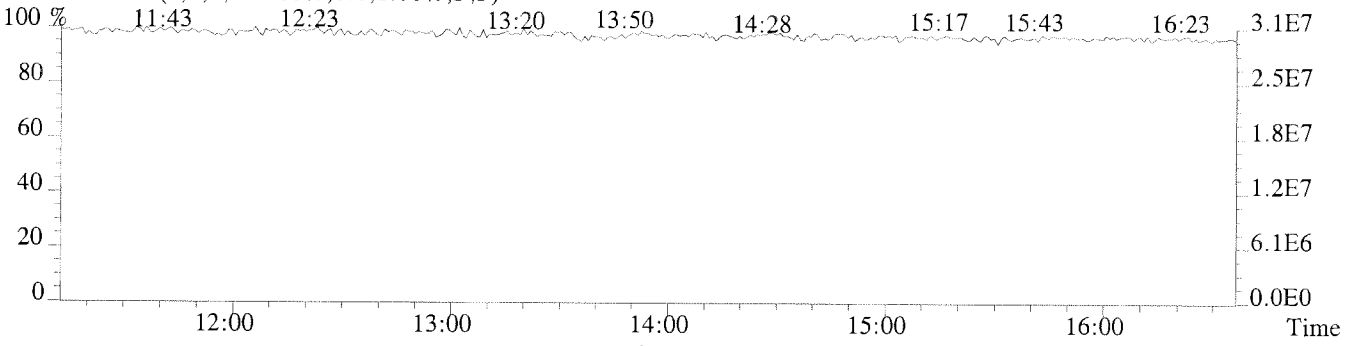
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



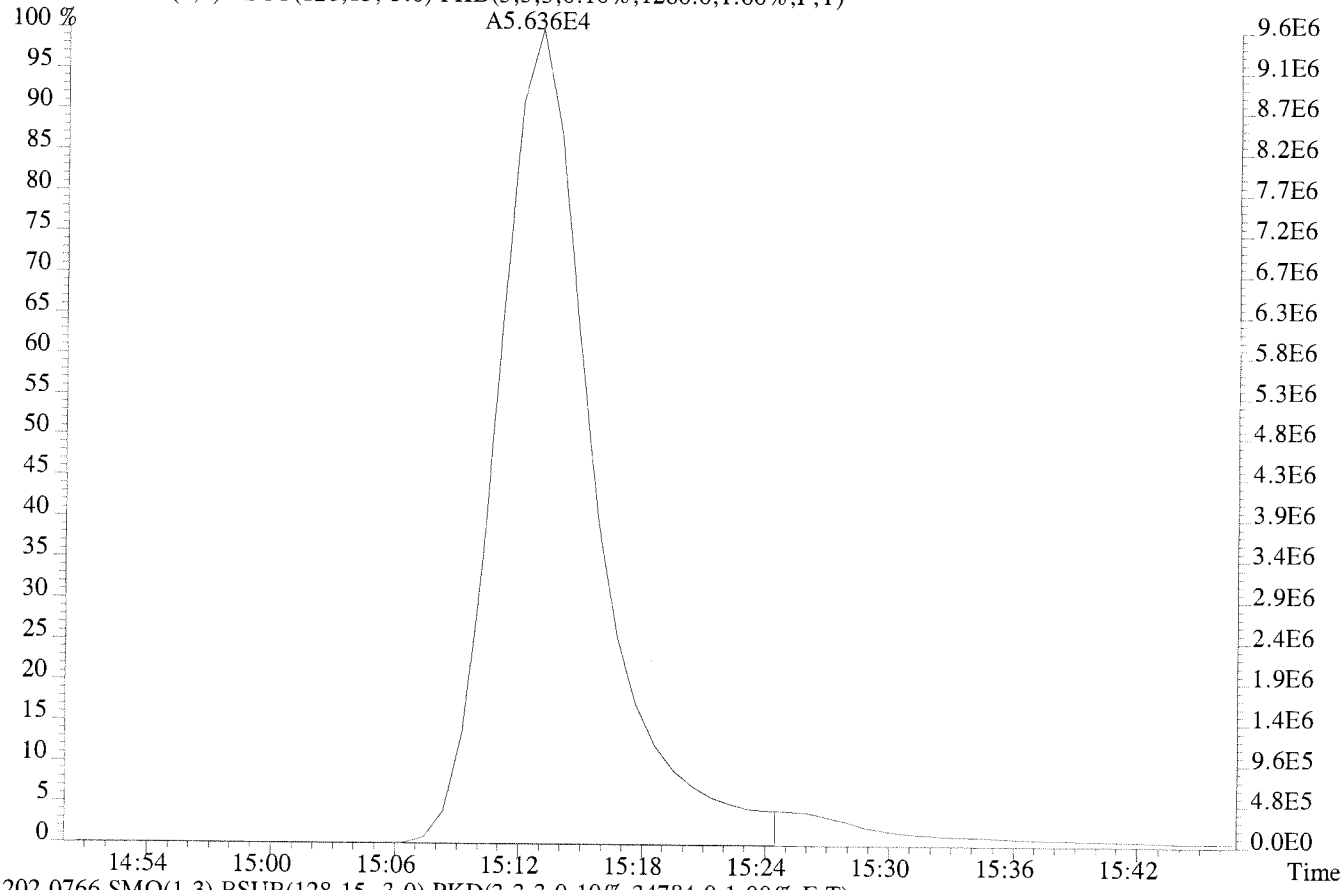
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,34784.0,1.00%,F,T)



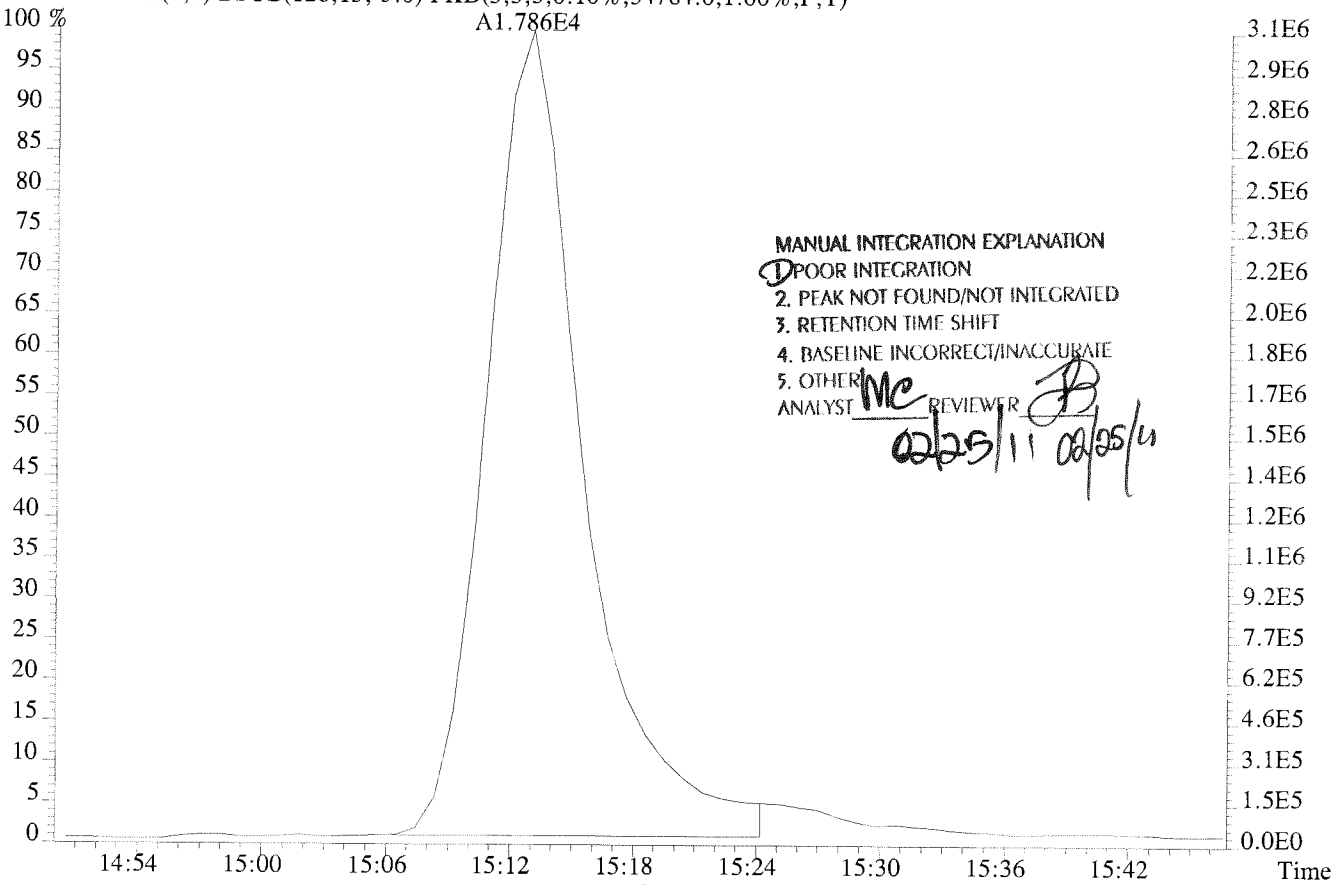
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139143 #1-347 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



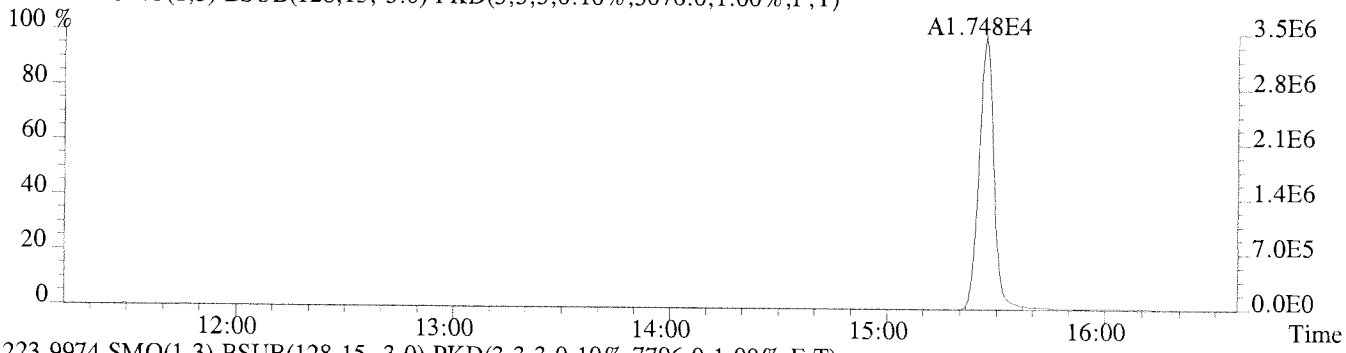
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,34784.0,1.00%,F,T)



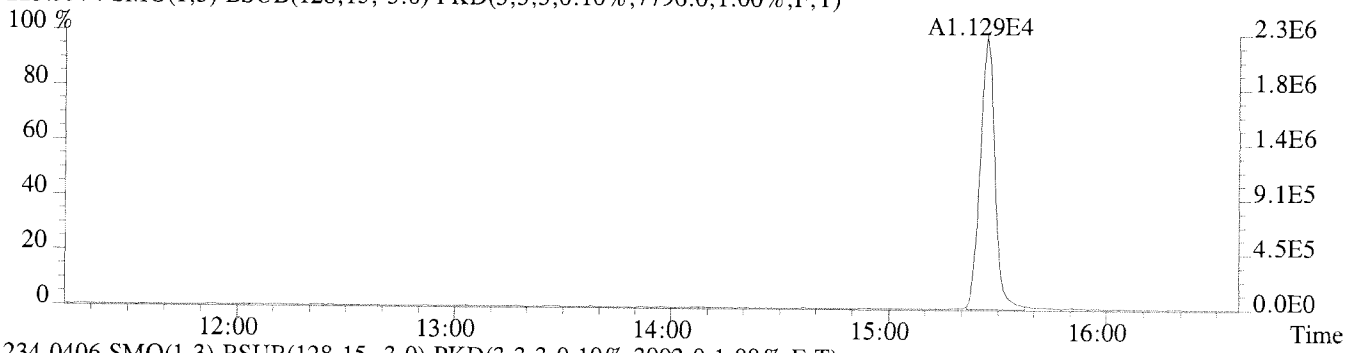
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/25/11 02/25/11

File:U139143 #1-347 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

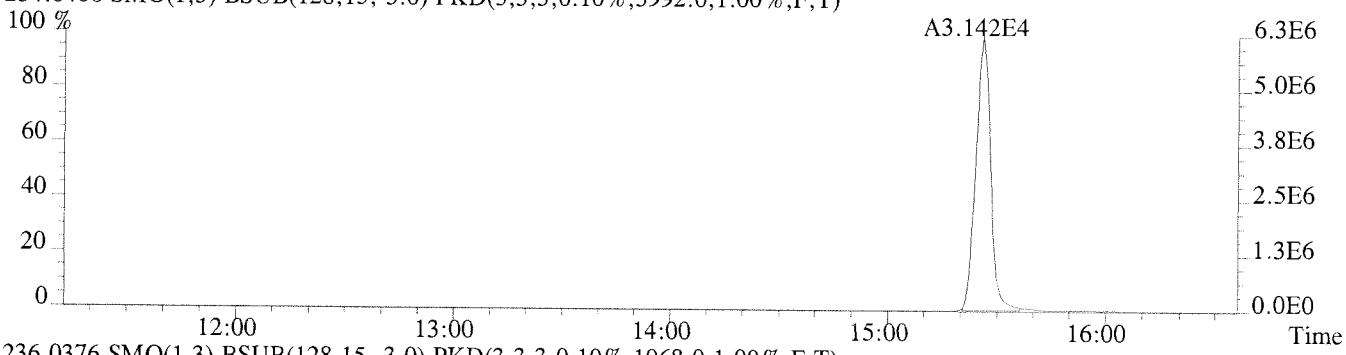
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3076.0,1.00%,F,T)



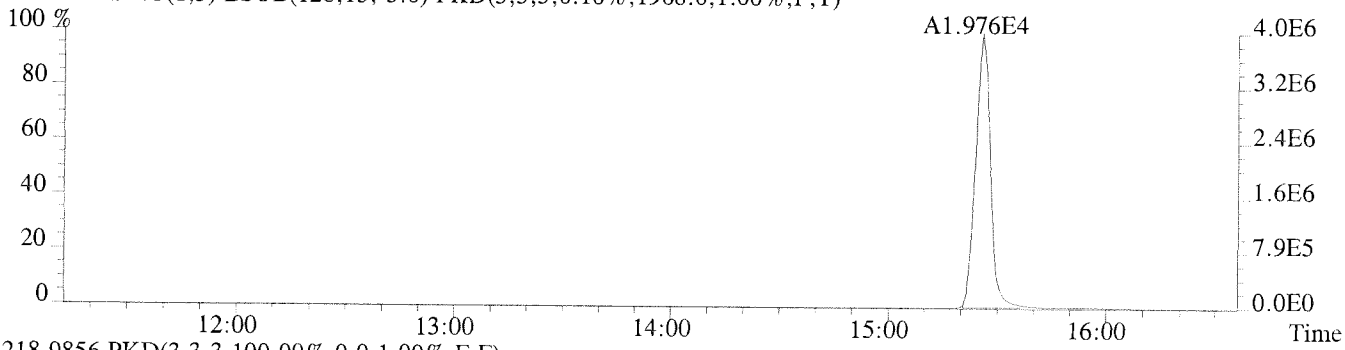
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7796.0,1.00%,F,T)



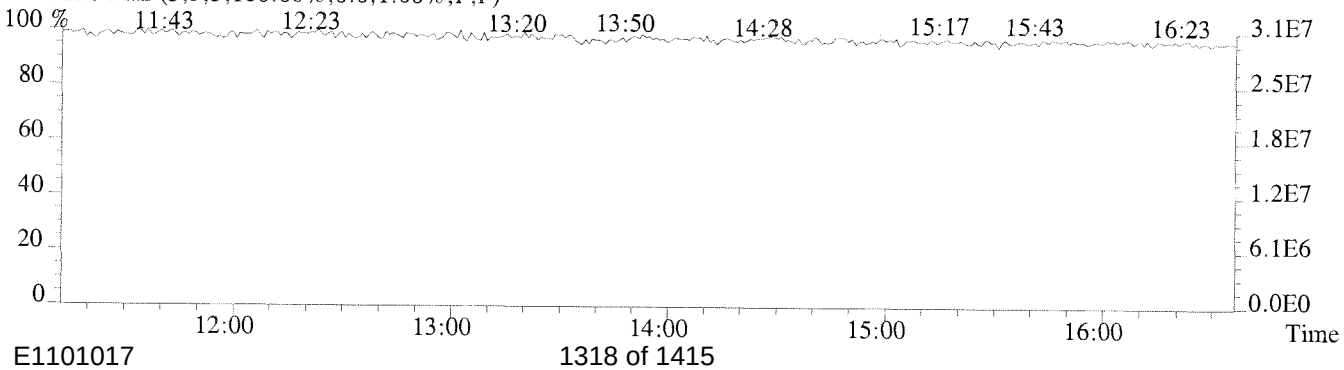
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3992.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1968.0,1.00%,F,T)

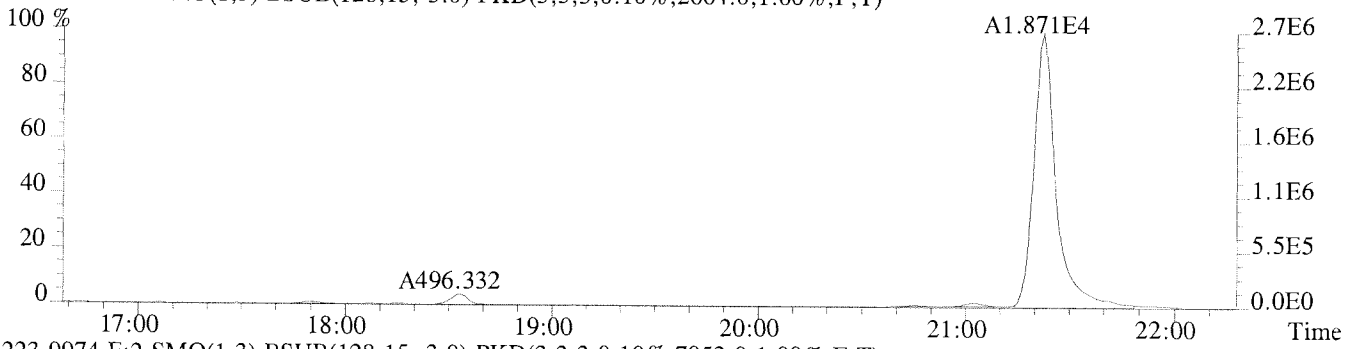


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

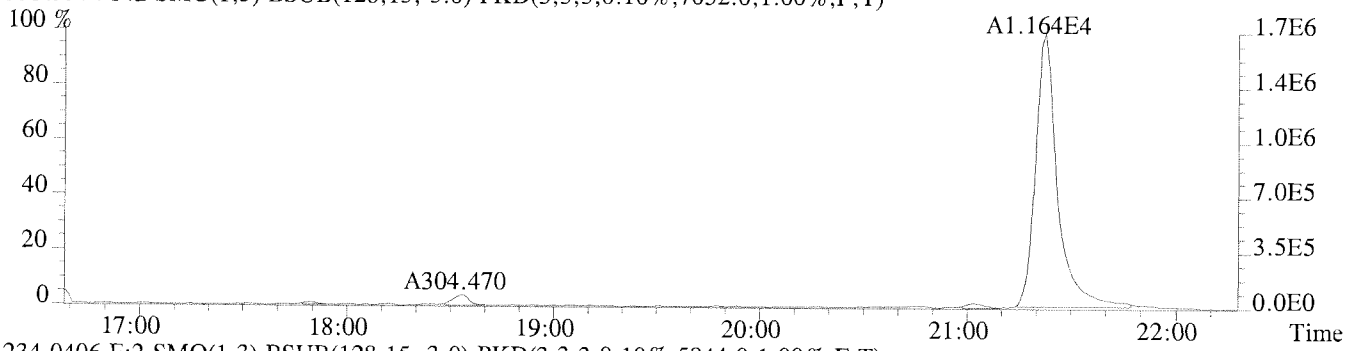


File:U139143 #1-313 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

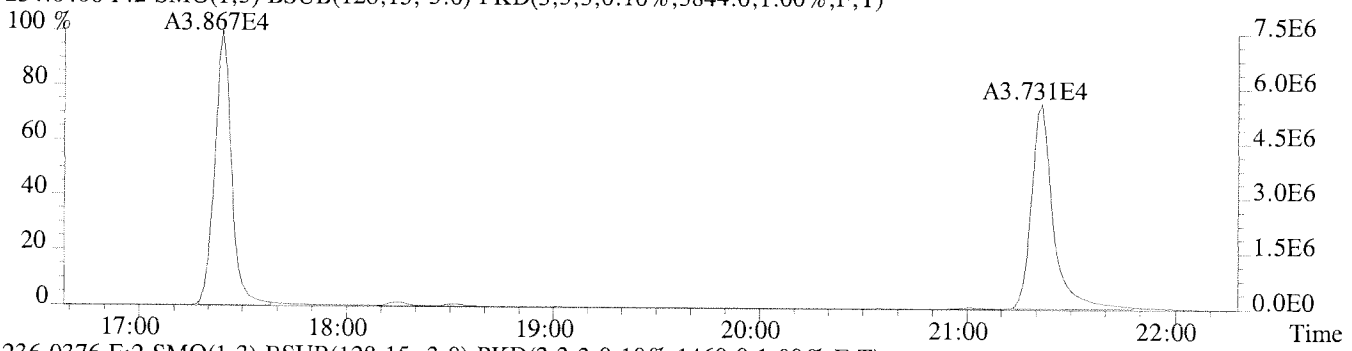
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2664.0,1.00%,F,T)



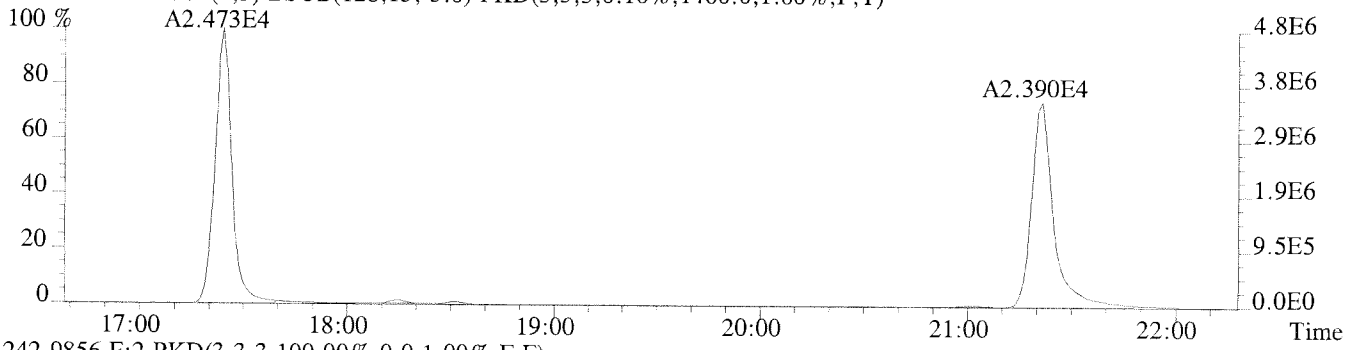
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7052.0,1.00%,F,T)



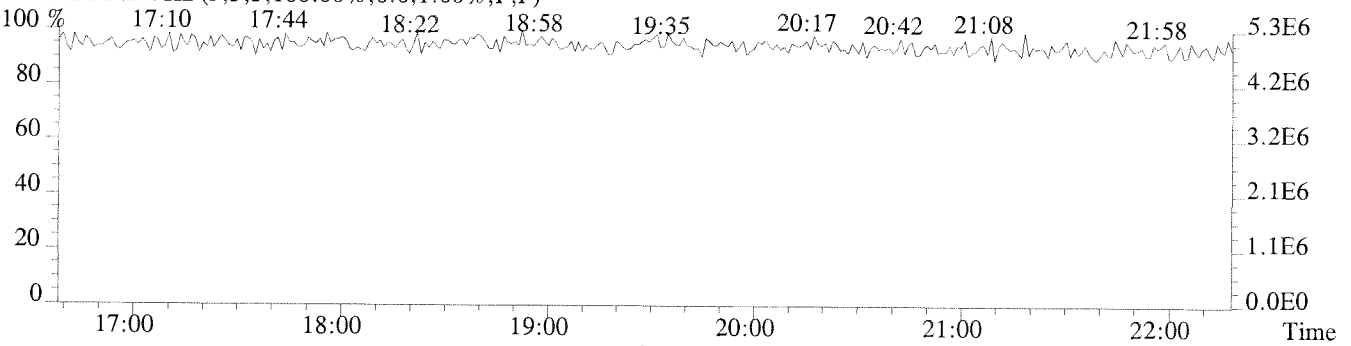
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5844.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1460.0,1.00%,F,T)

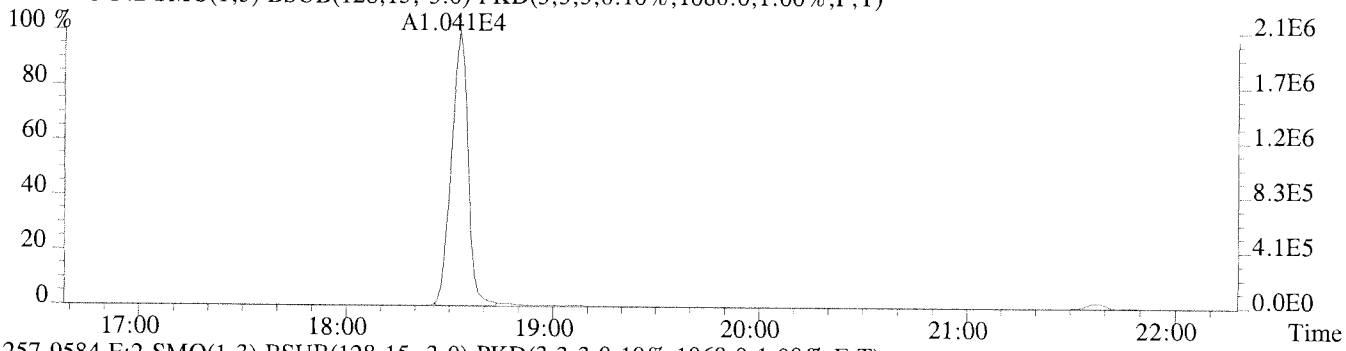


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

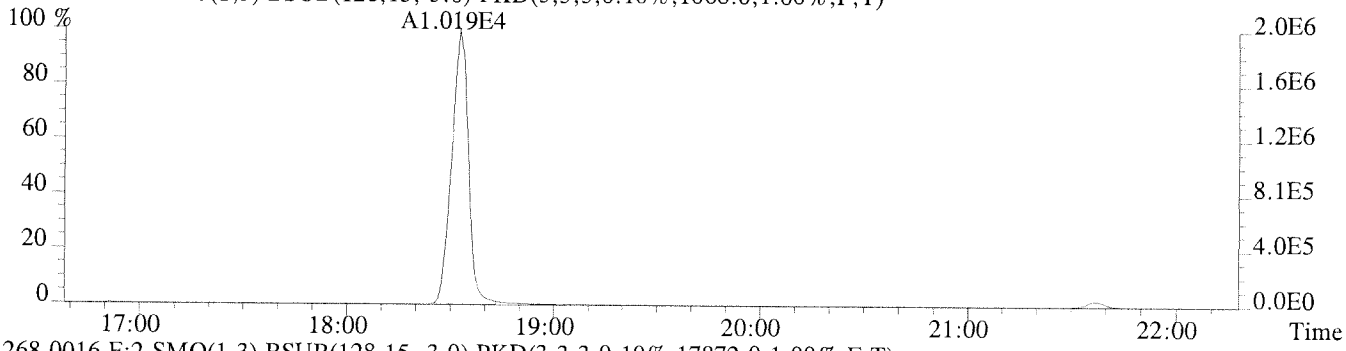


File:U139143 #1-313 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

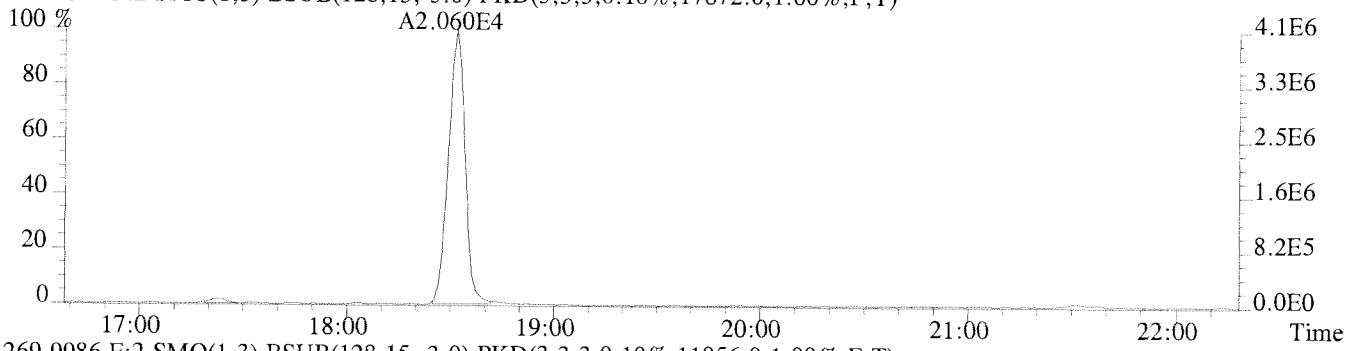
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1080.0,1.00%,F,T)



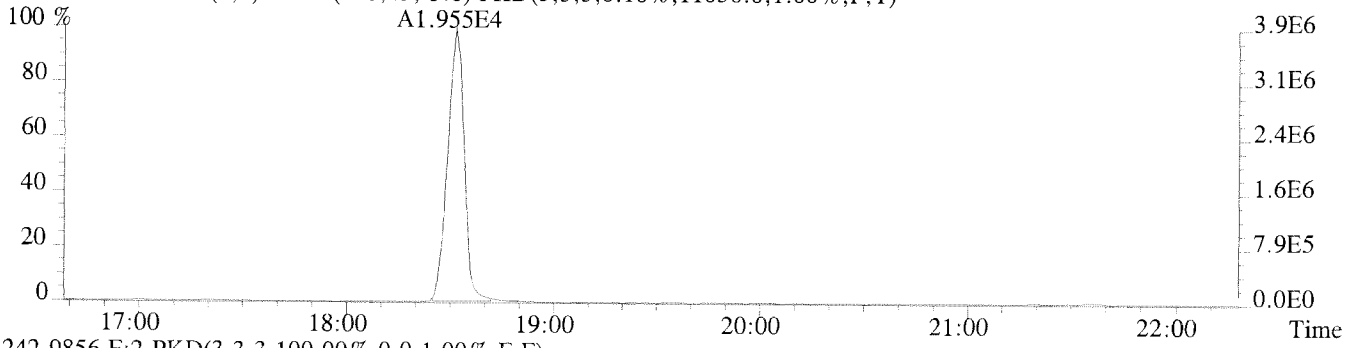
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1068.0,1.00%,F,T)



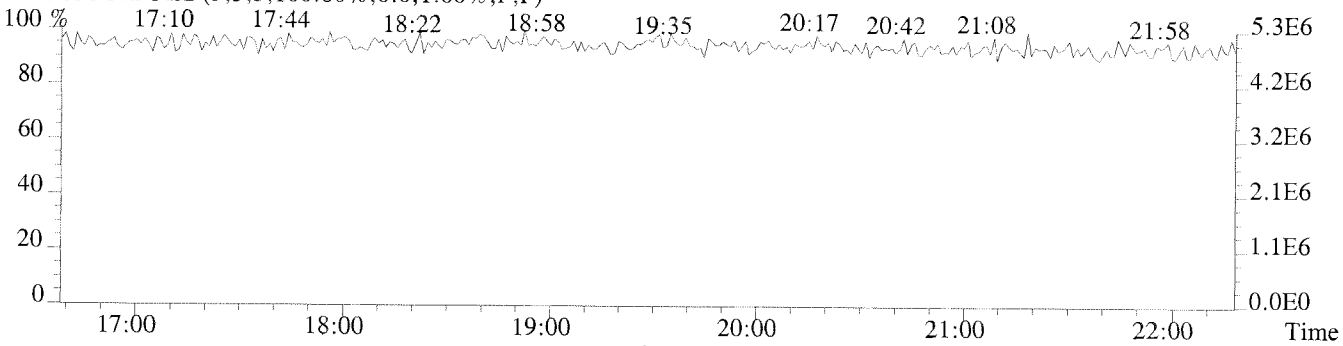
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17872.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11056.0,1.00%,F,T)

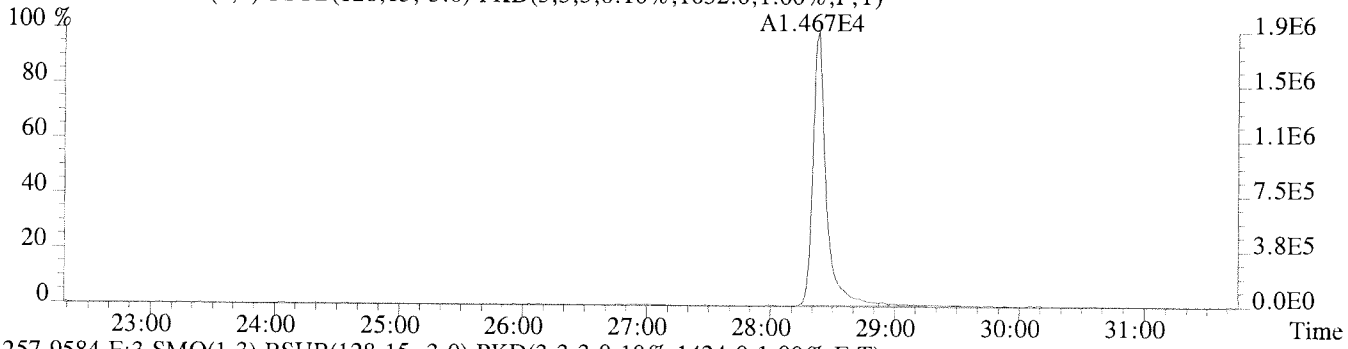


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

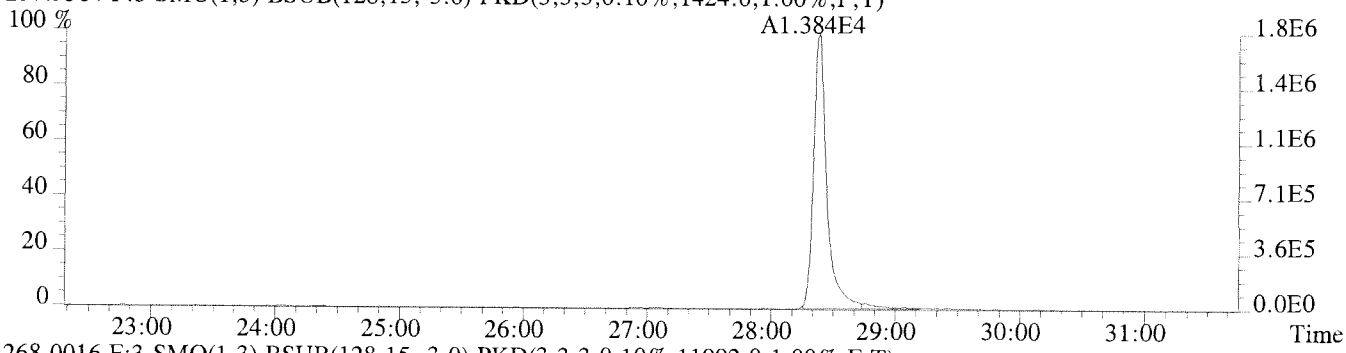


File:U139143 #1-604 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

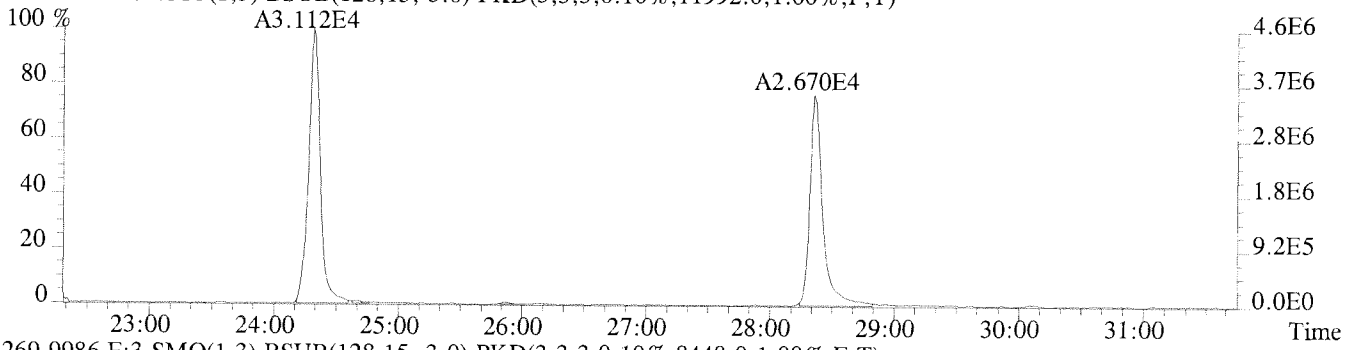
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1632.0,1.00%,F,T)



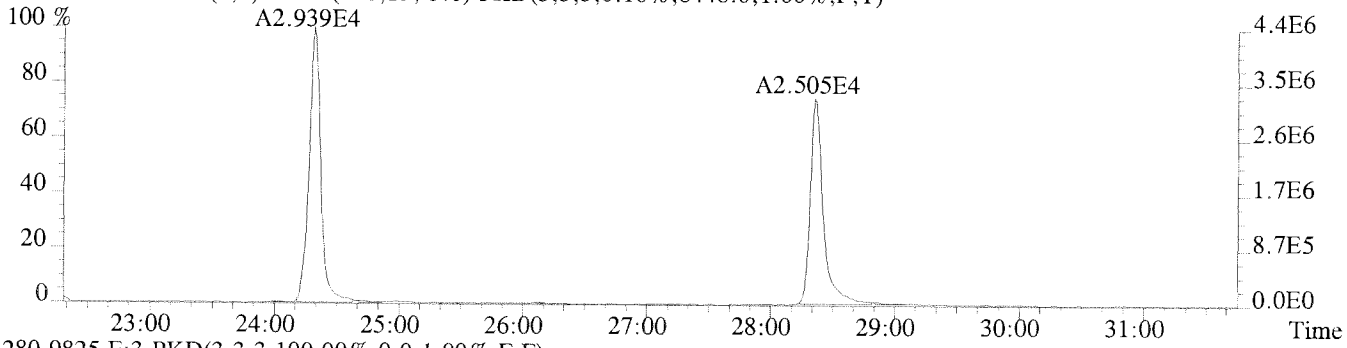
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1424.0,1.00%,F,T)



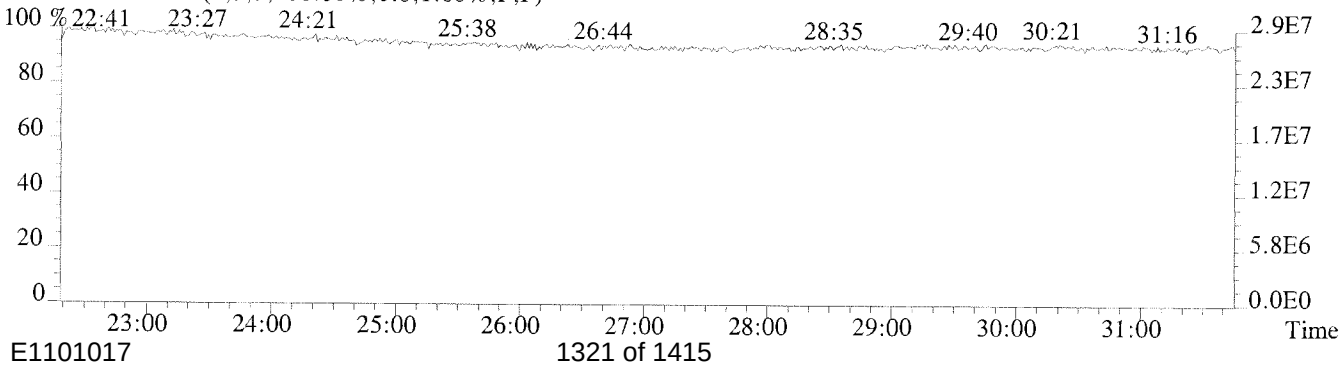
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11992.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8448.0,1.00%,F,T)

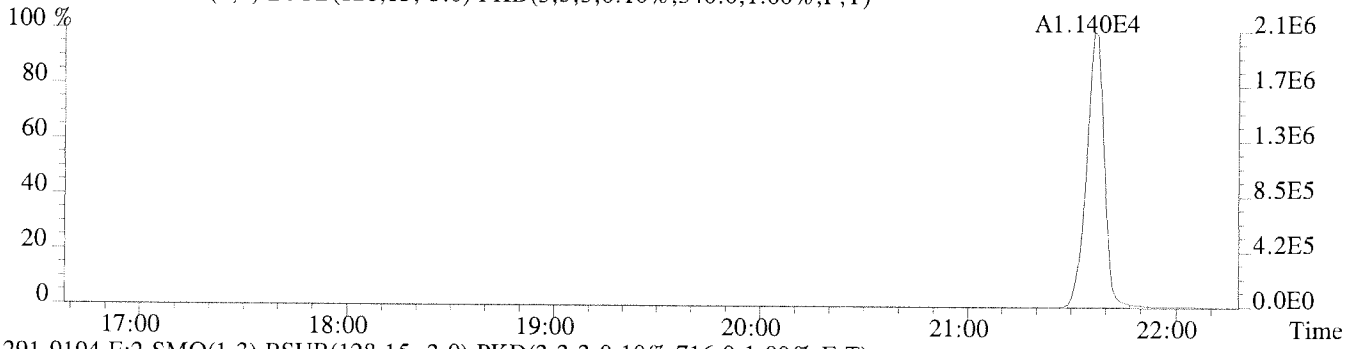


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

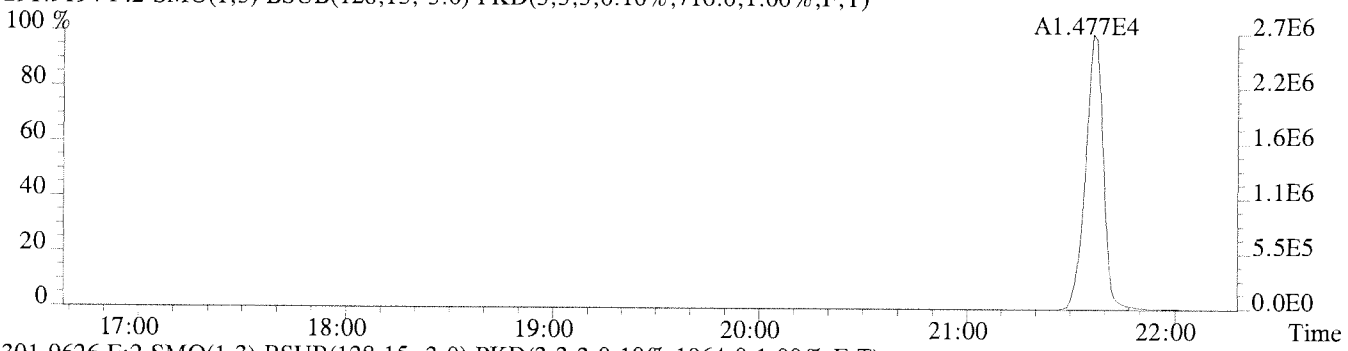


File:U139143 #1-313 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

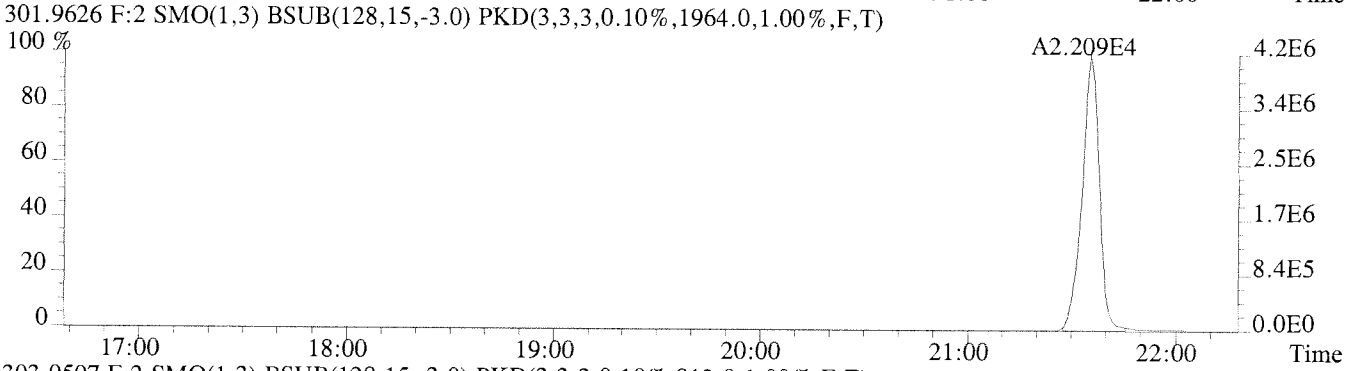
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,540.0,1.00%,F,T)



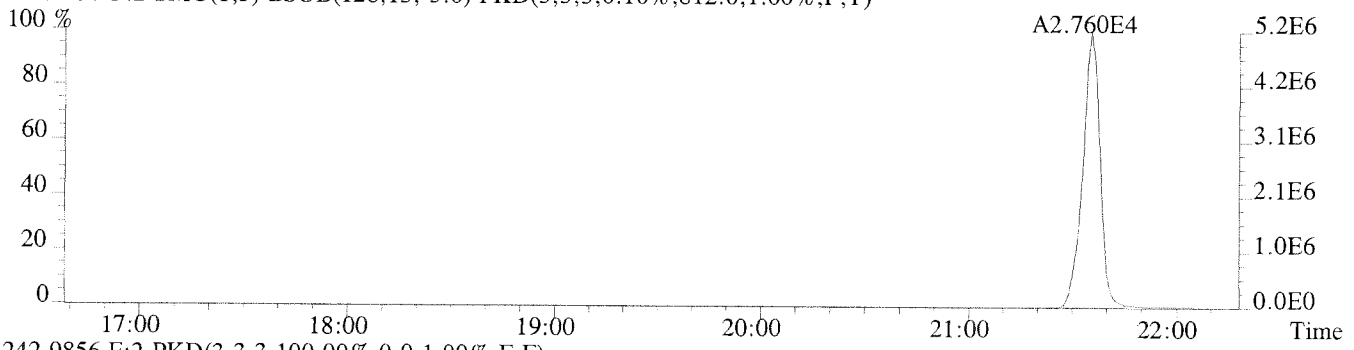
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



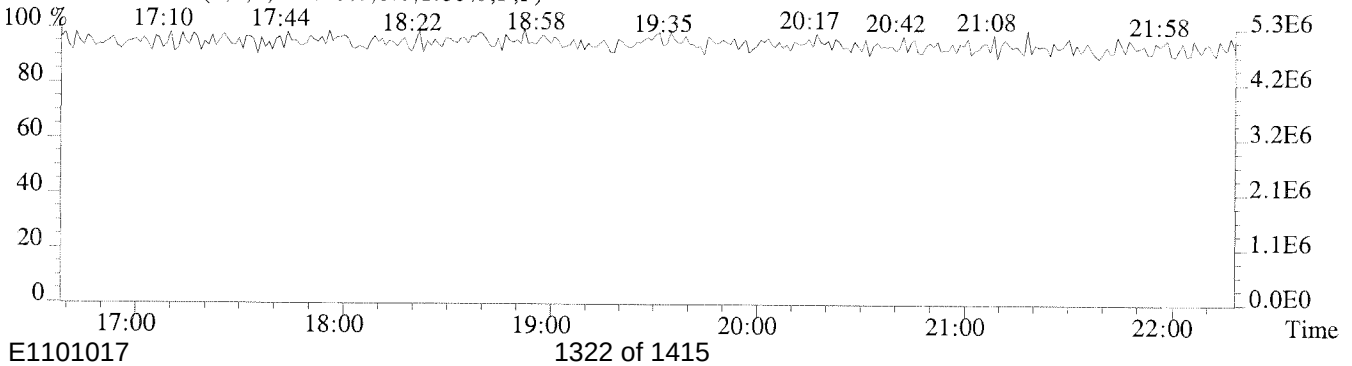
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1964.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,812.0,1.00%,F,T)

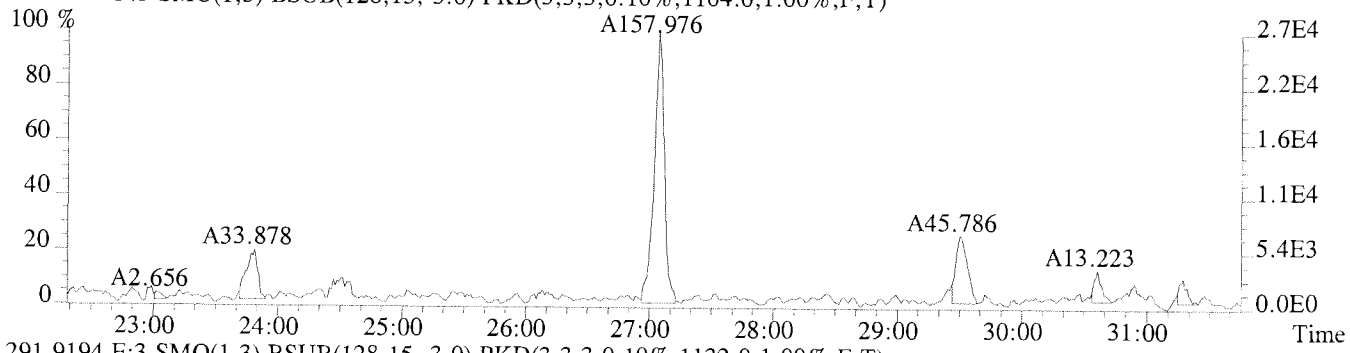


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

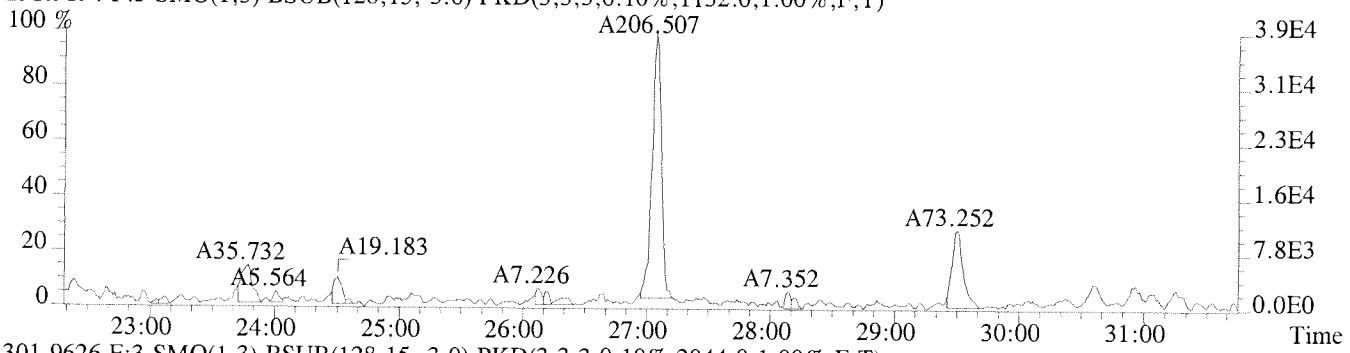


File:U139143 #1-604 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

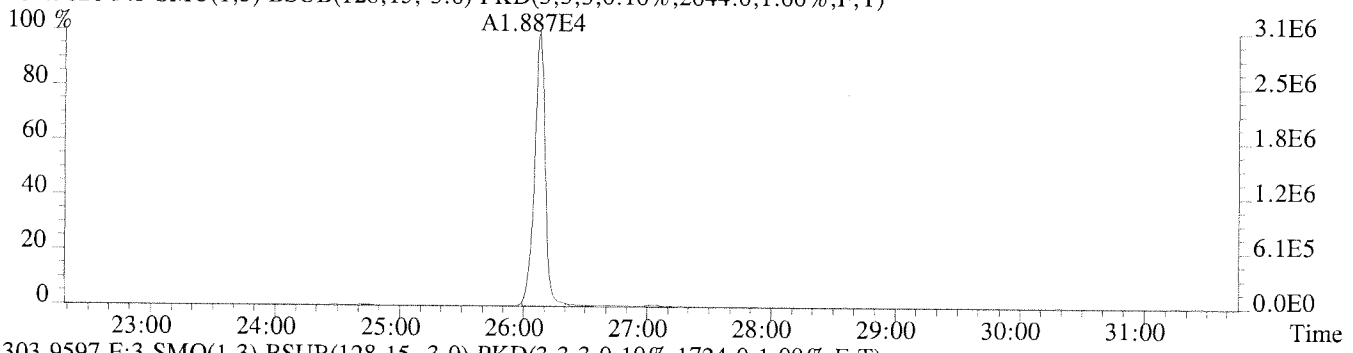
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1104.0,1.00%,F,T)



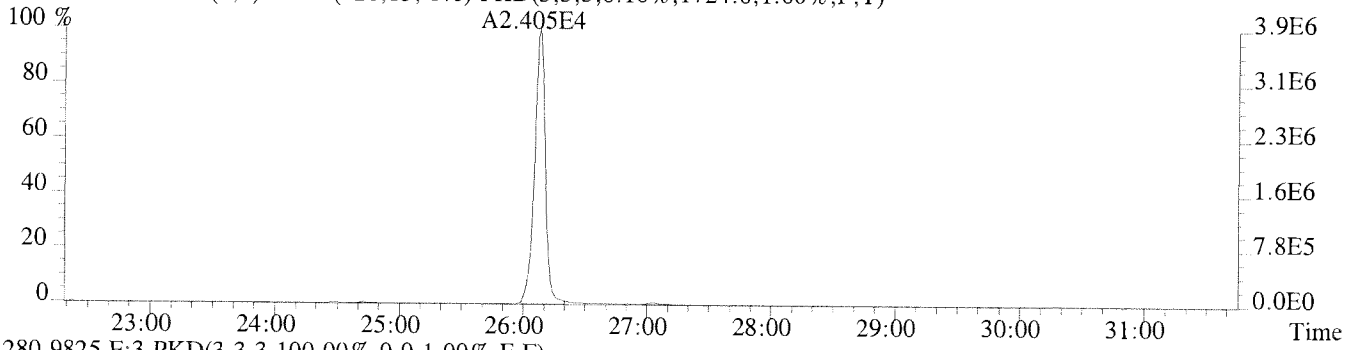
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1132.0,1.00%,F,T)



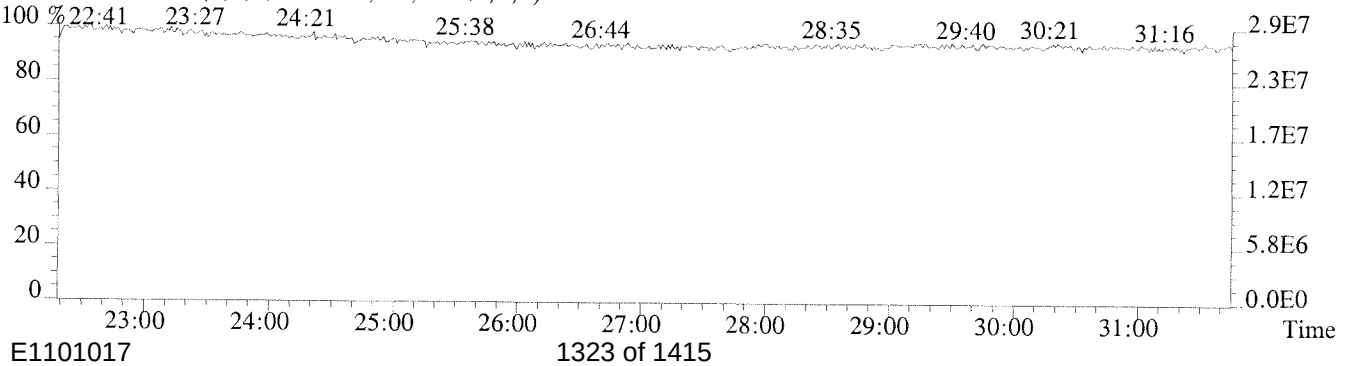
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2044.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1724.0,1.00%,F,T)

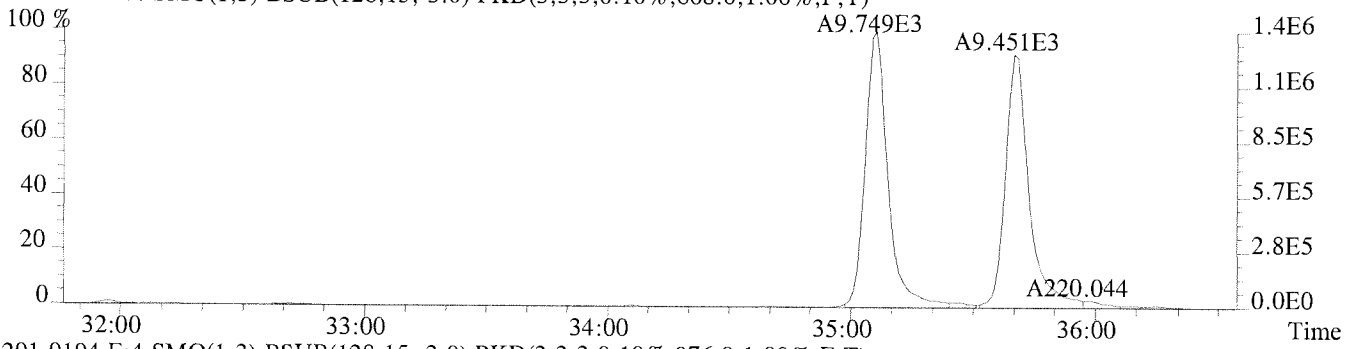


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

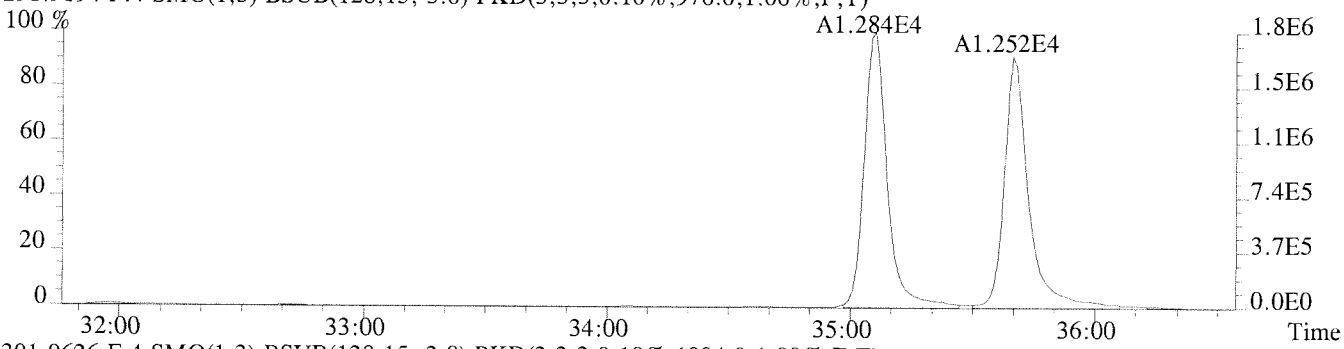


File:U139143 #1-308 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

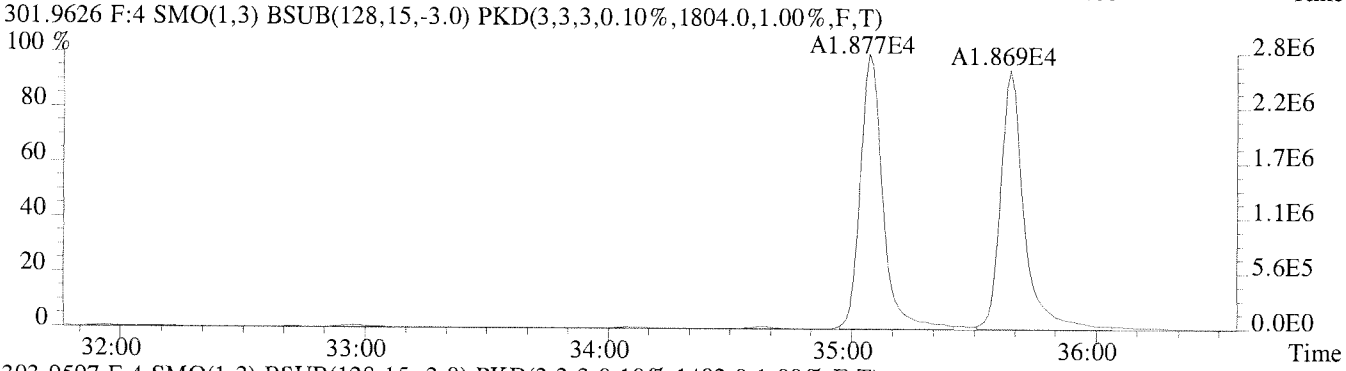
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868.0,1.00%,F,T)



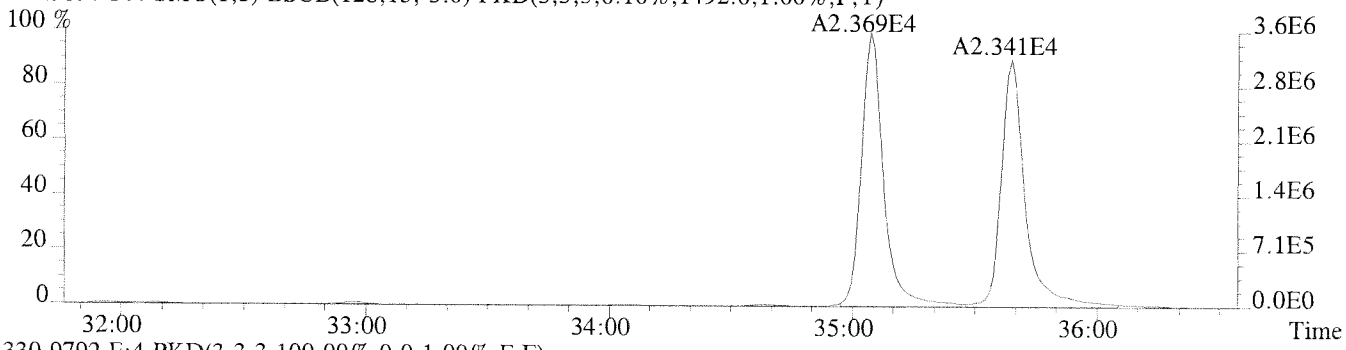
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



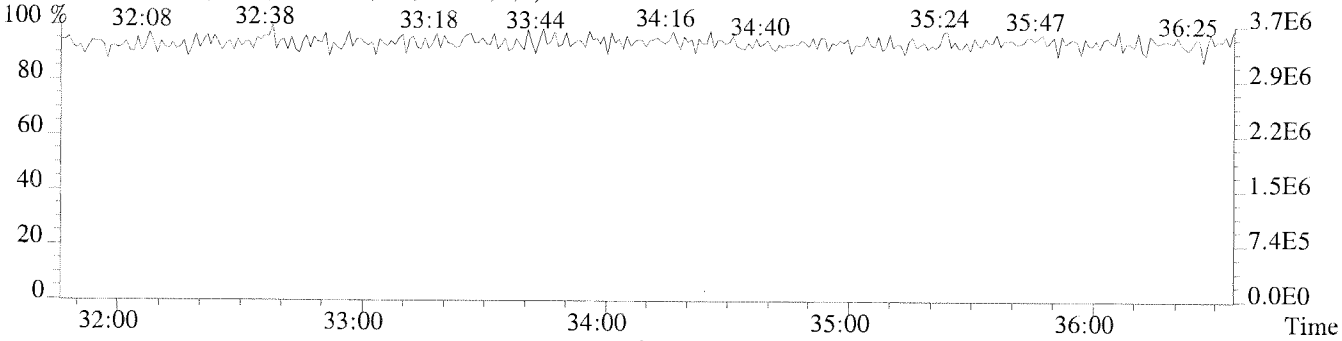
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1804.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1492.0,1.00%,F,T)

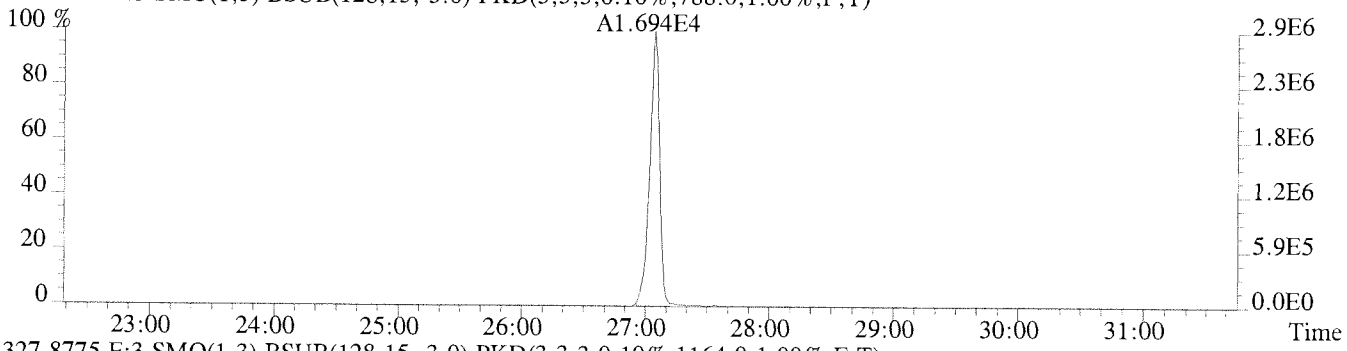


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

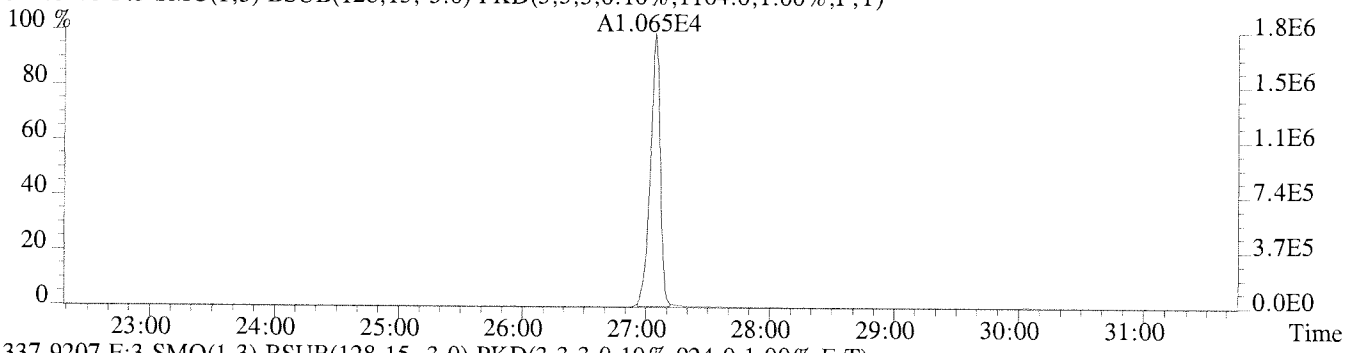


File:U139143 #1-604 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

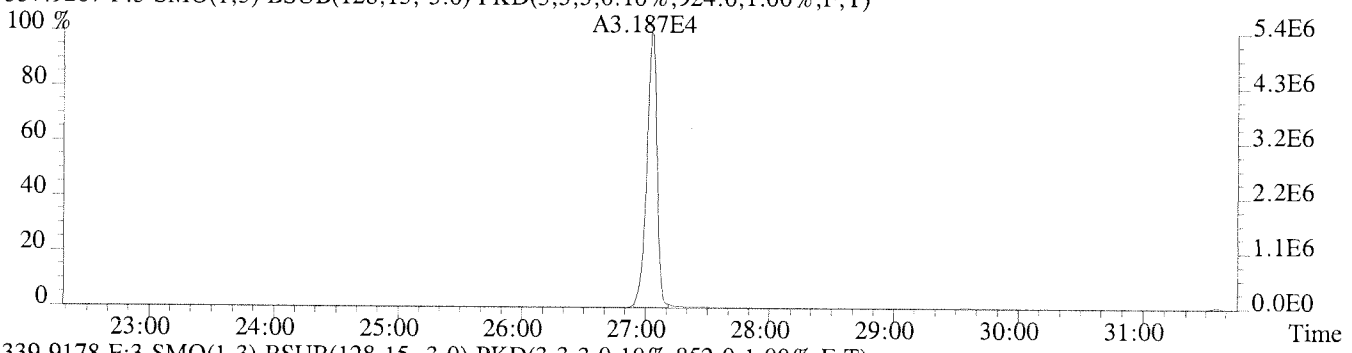
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,788.0,1.00%,F,T)



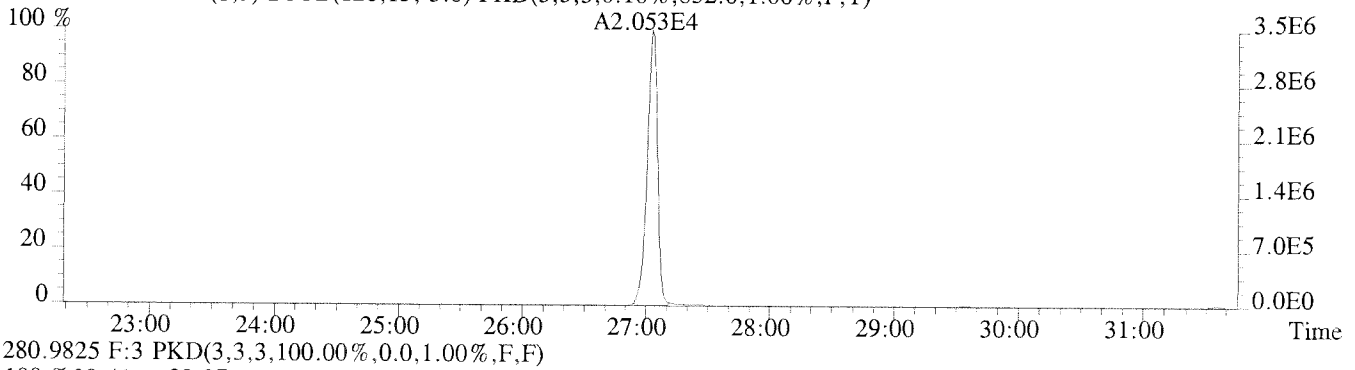
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1164.0,1.00%,F,T)



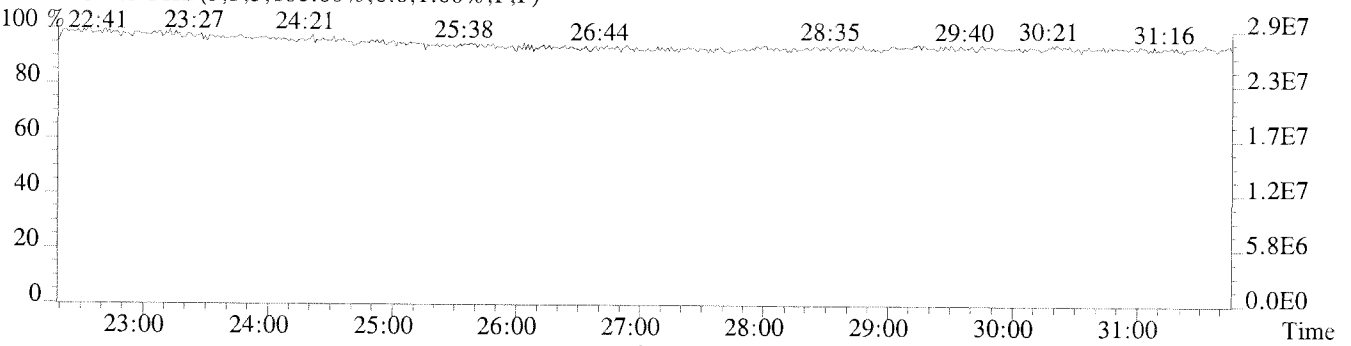
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)

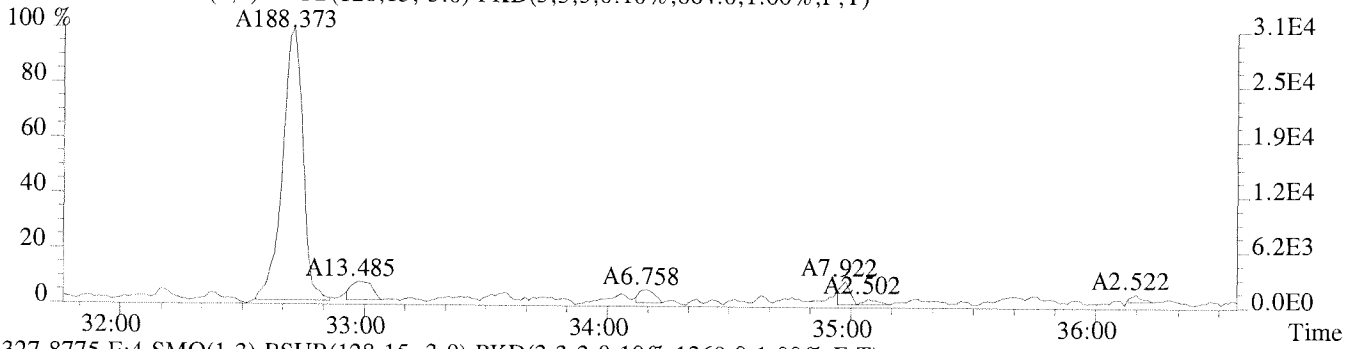


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

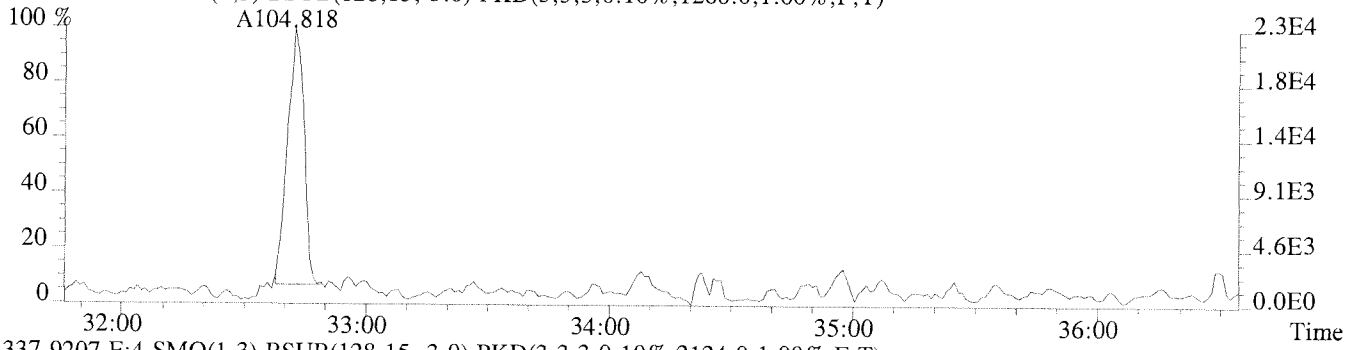


File:U139143 #1-308 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

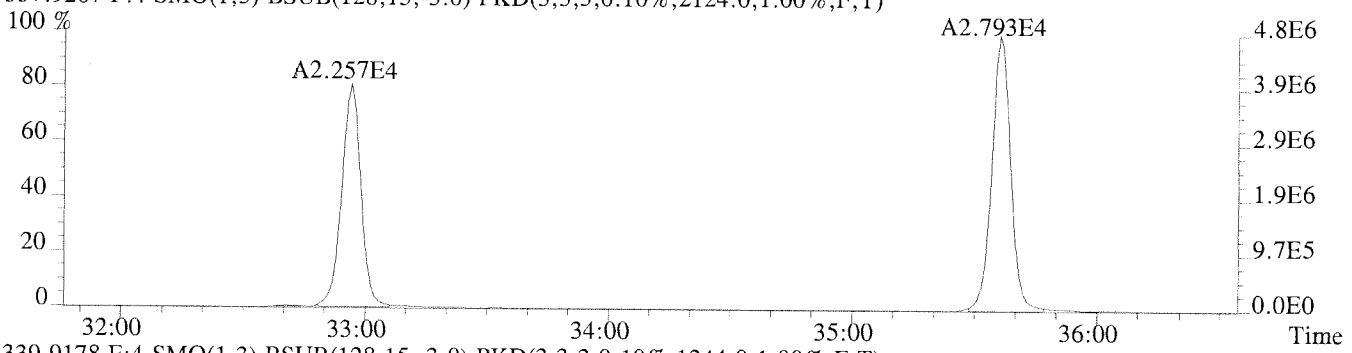
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



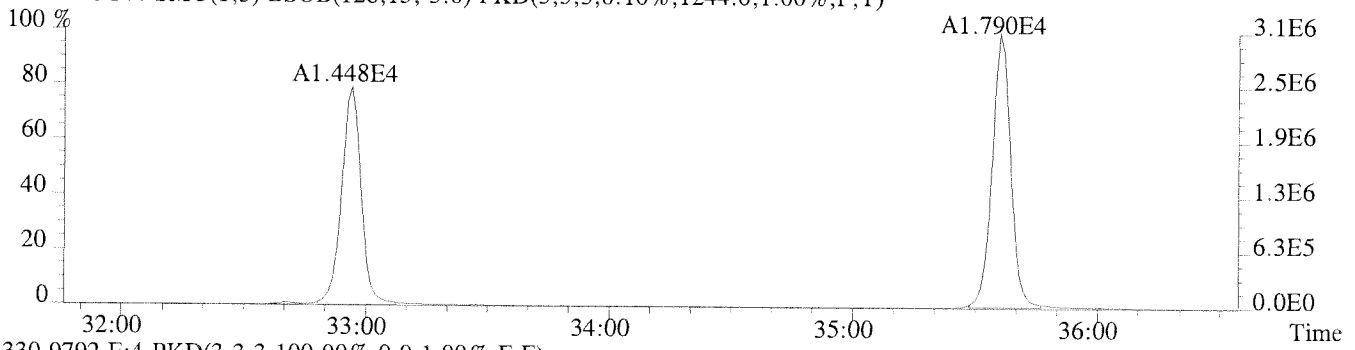
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1260.0,1.00%,F,T)



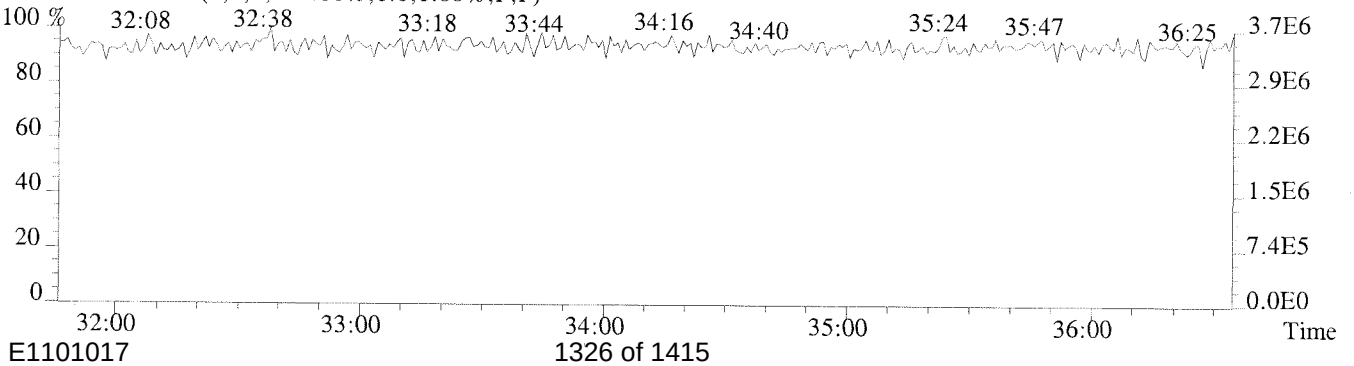
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2124.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1244.0,1.00%,F,T)

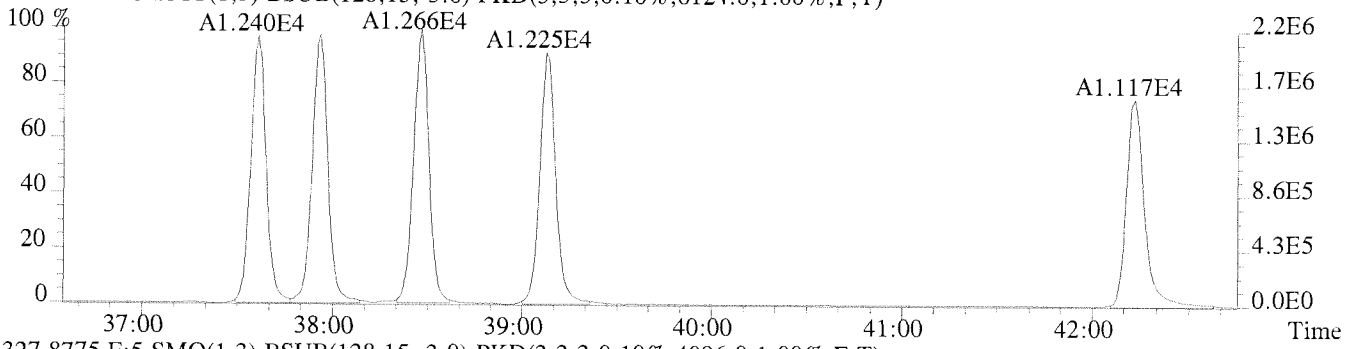


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

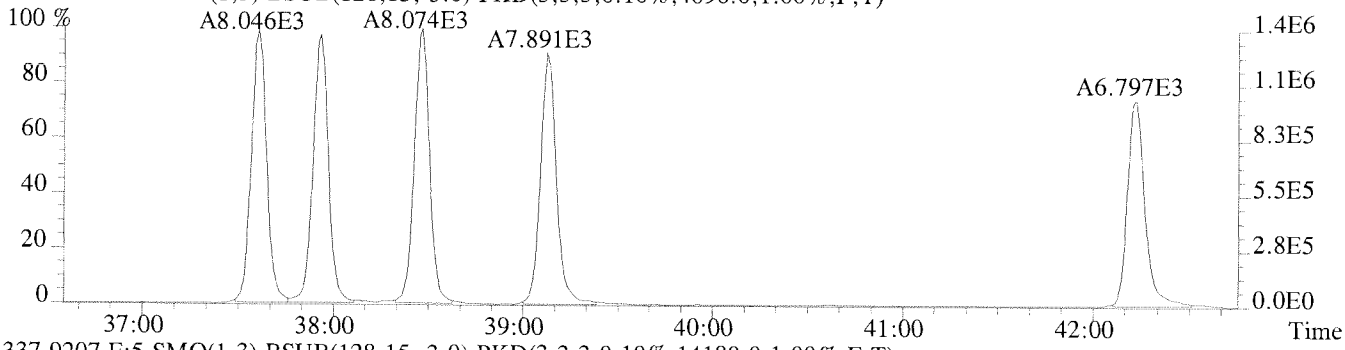


File:U139143 #1-395 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

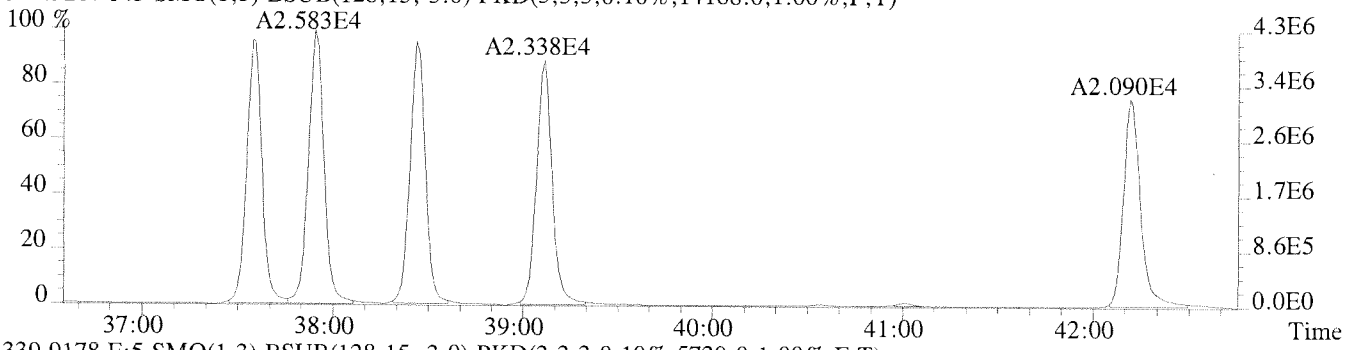
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6124.0,1.00%,F,T)



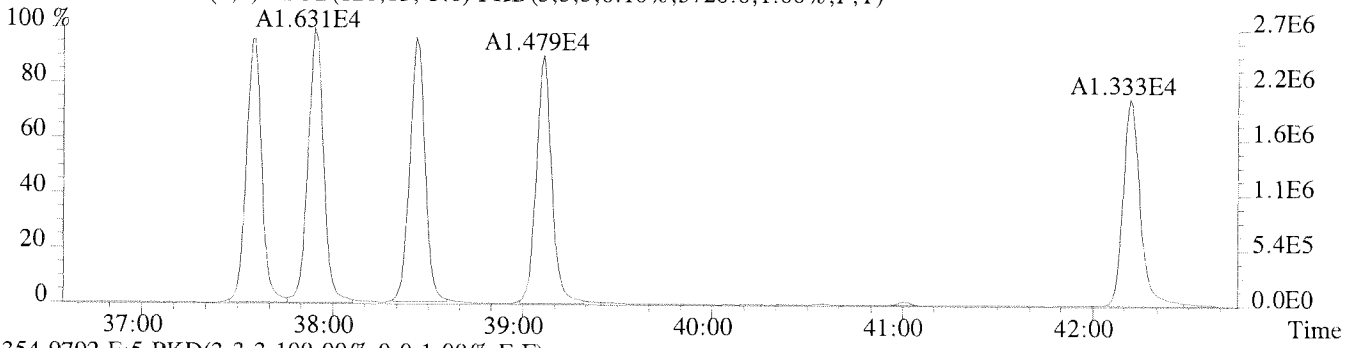
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4096.0,1.00%,F,T)



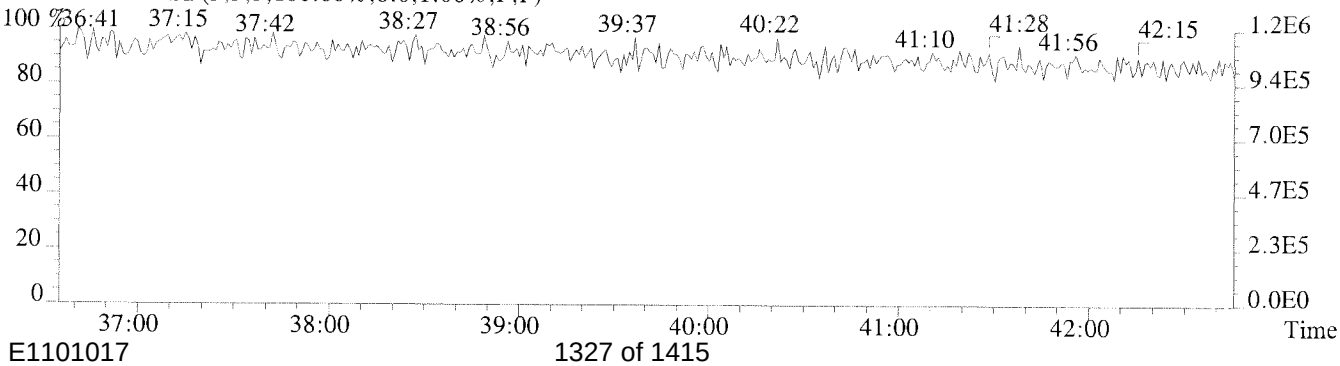
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14188.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5720.0,1.00%,F,T)

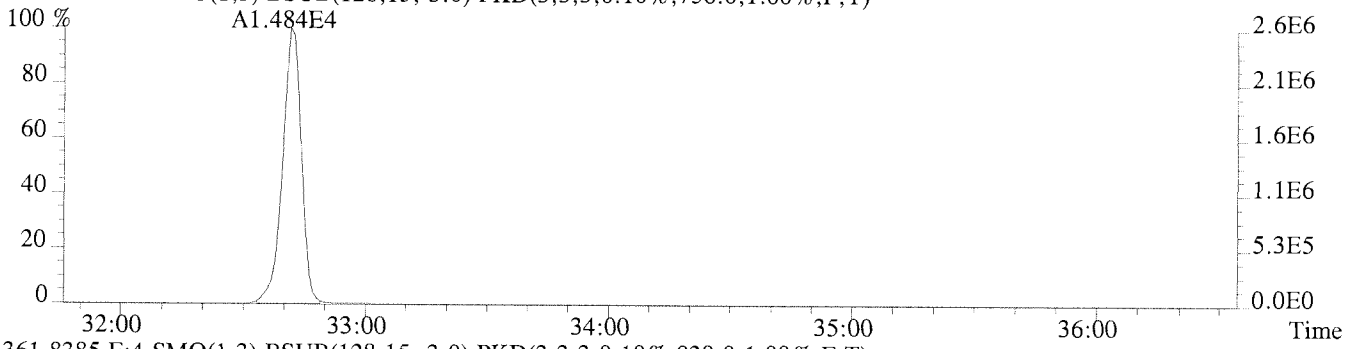


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

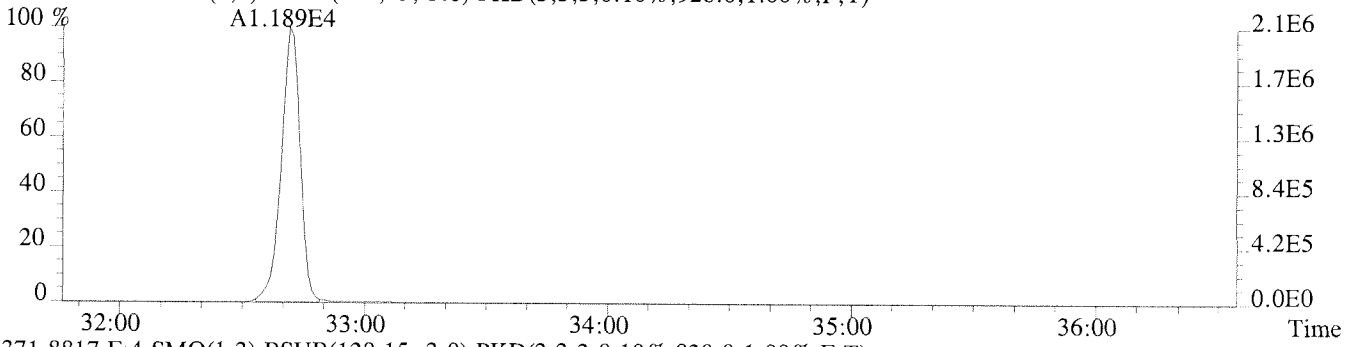


File:U139143 #1-308 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

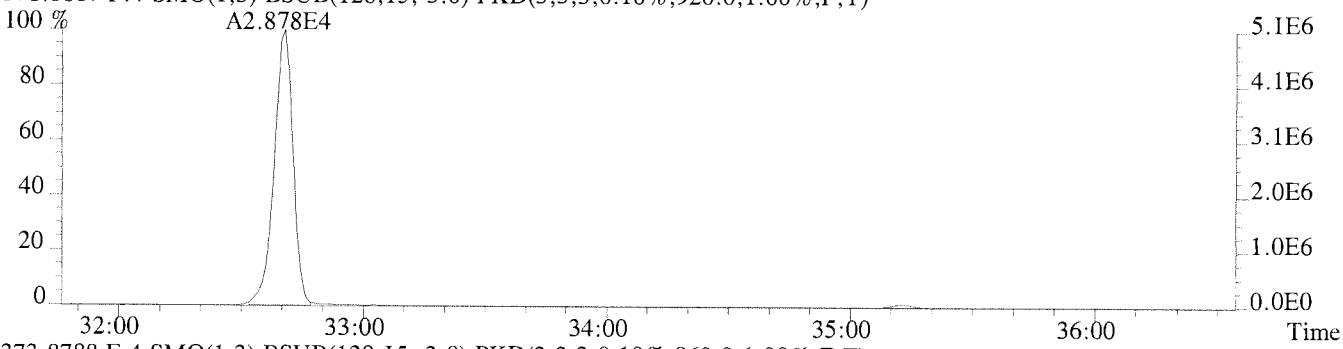
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,756.0,1.00%,F,T)



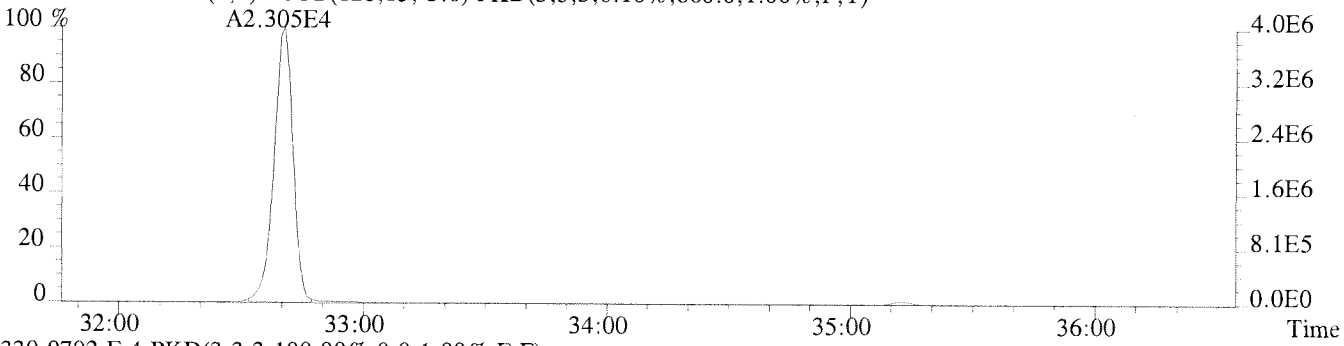
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,928.0,1.00%,F,T)



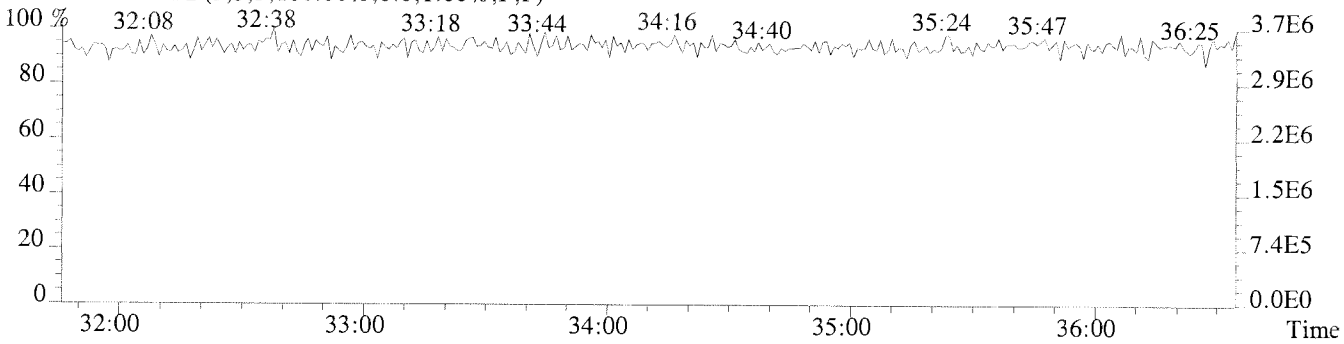
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,920.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,I5,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)

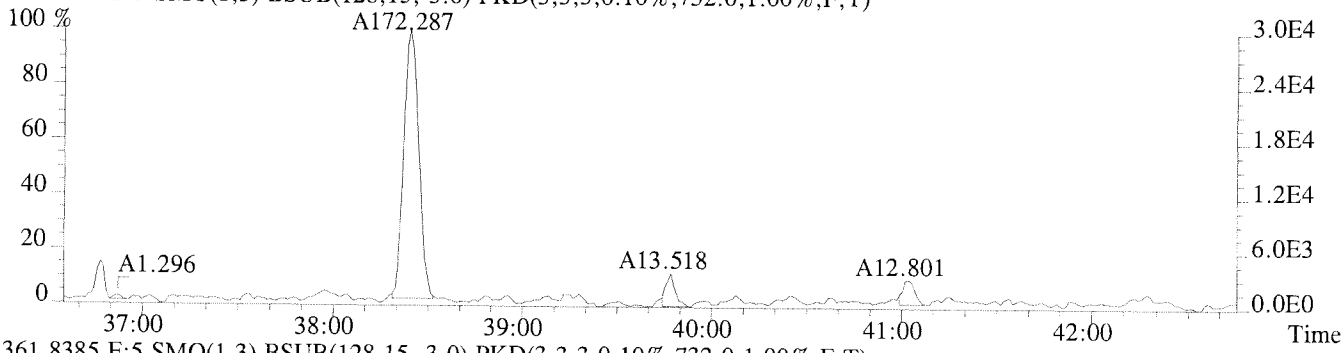


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

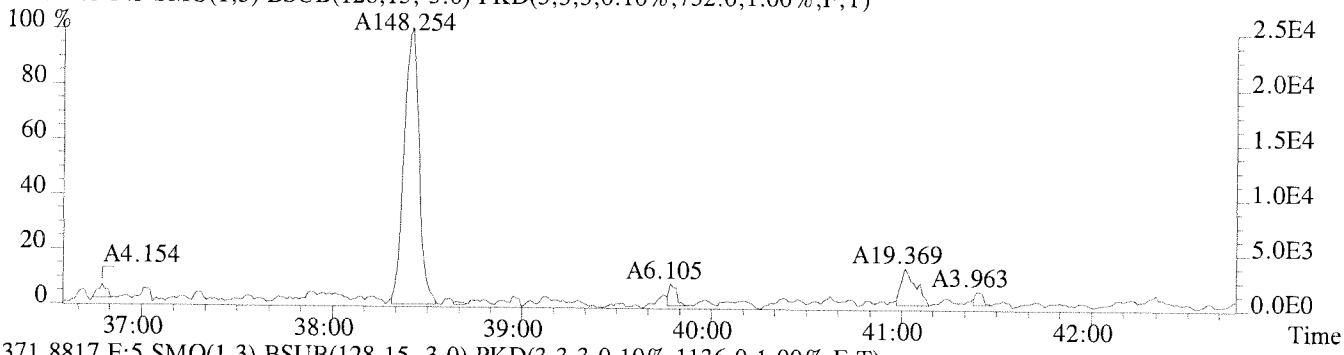


File:U139143 #1-395 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

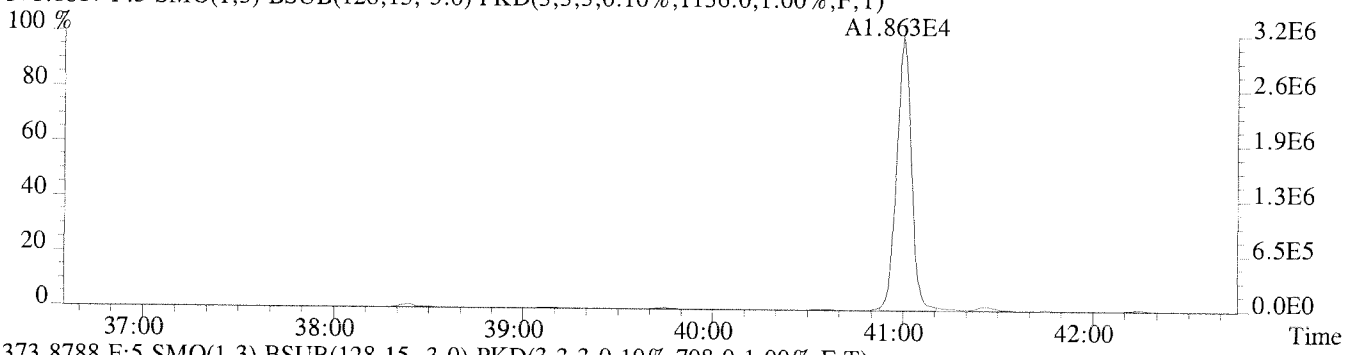
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)



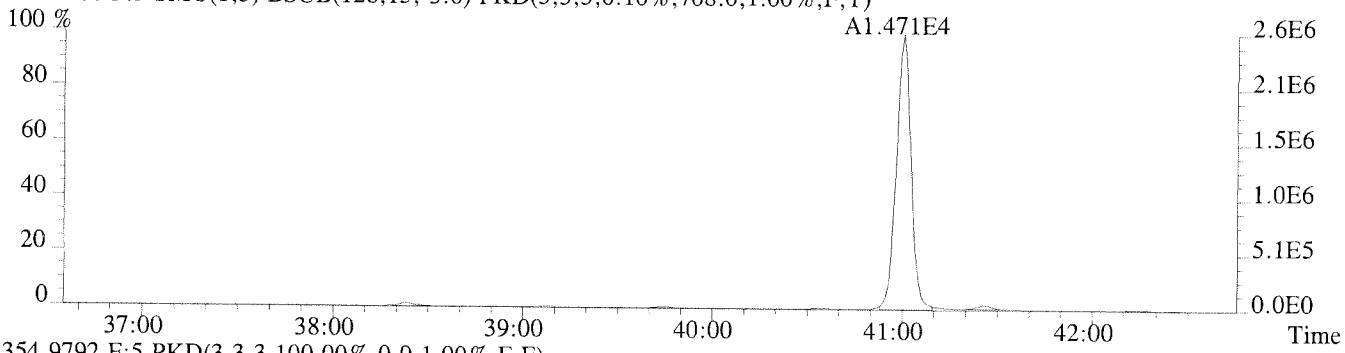
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,732.0,1.00%,F,T)



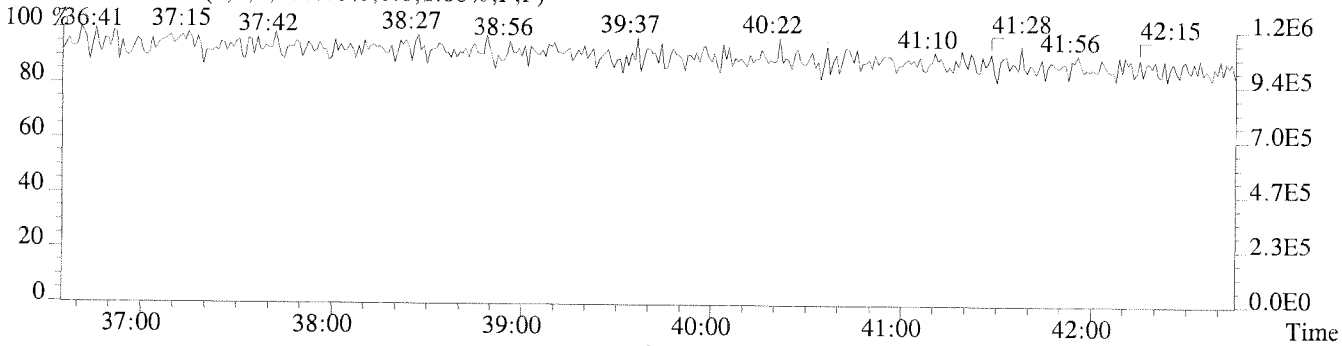
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1136.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,708.0,1.00%,F,T)

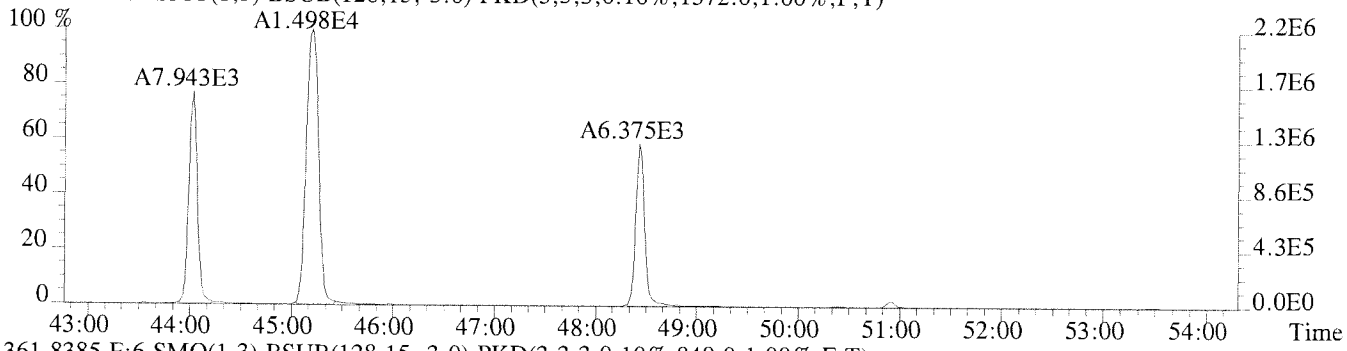


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

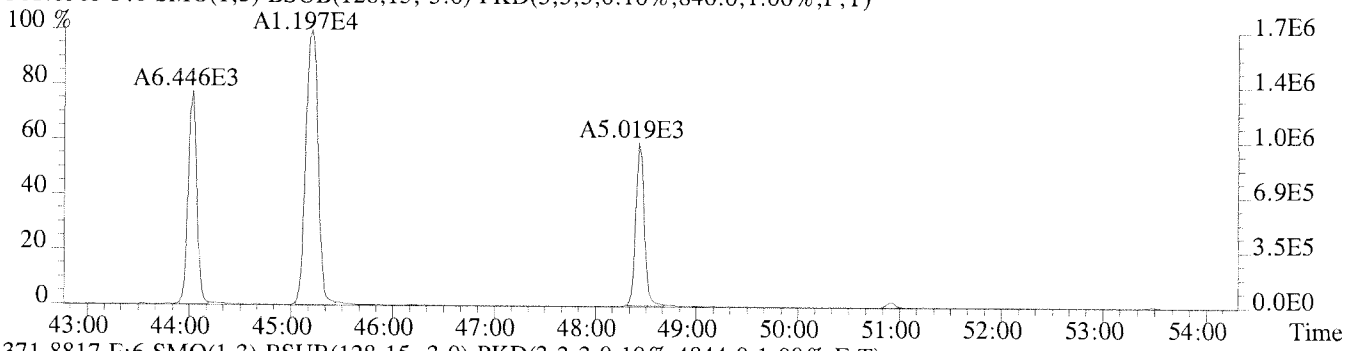


File:U139143 #1-572 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

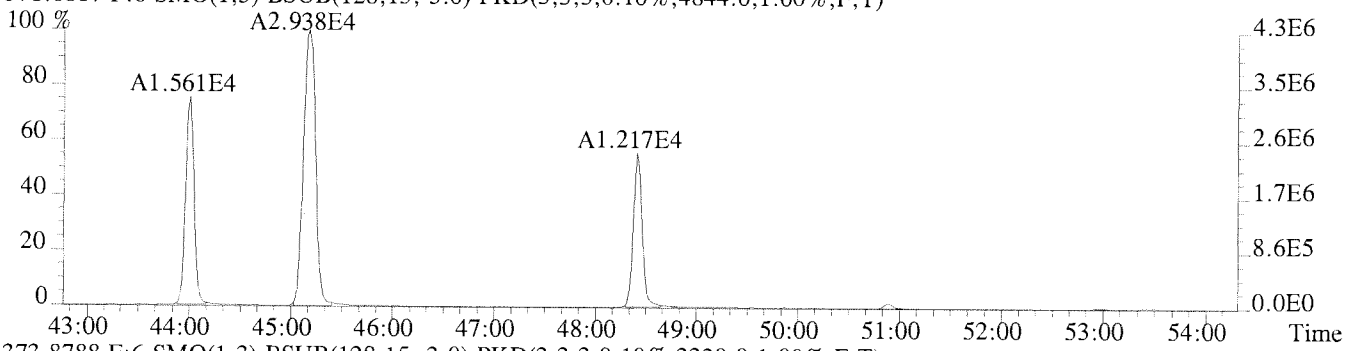
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1372.0,1.00%,F,T)



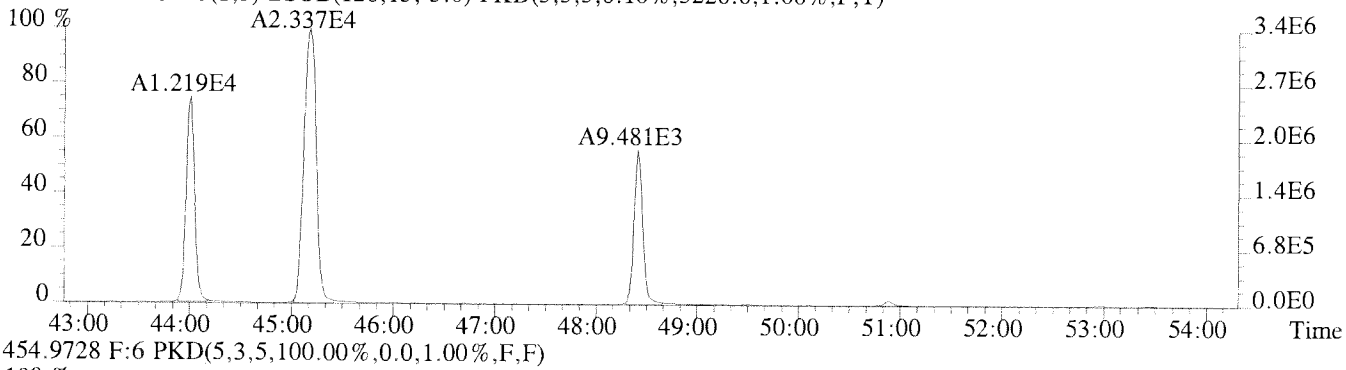
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,840.0,1.00%,F,T)



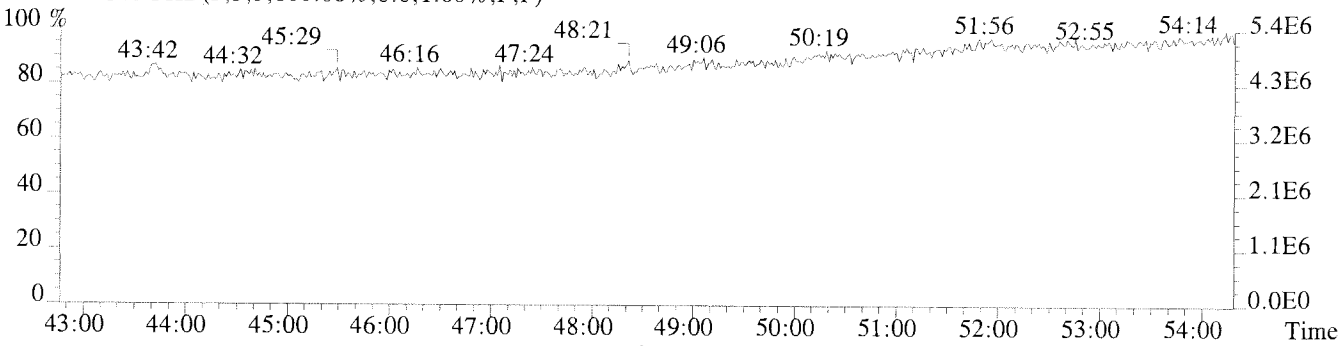
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4844.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3220.0,1.00%,F,T)

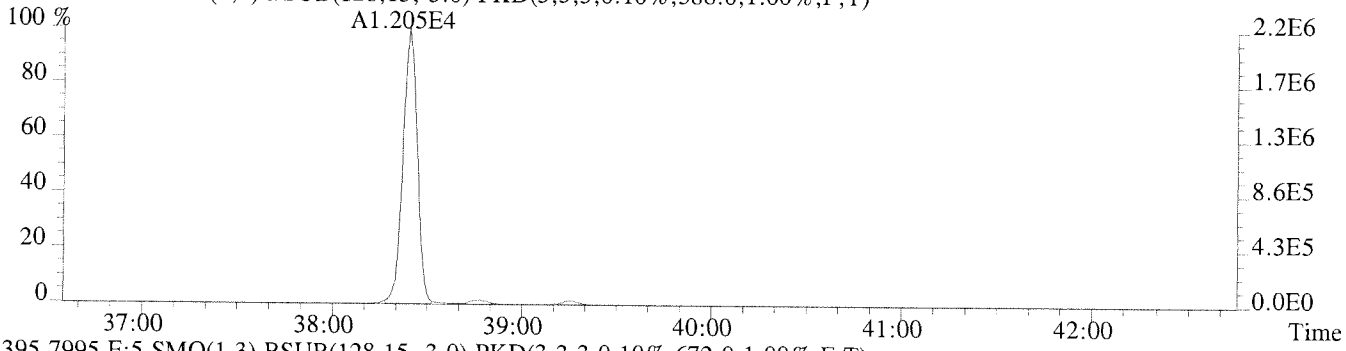


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

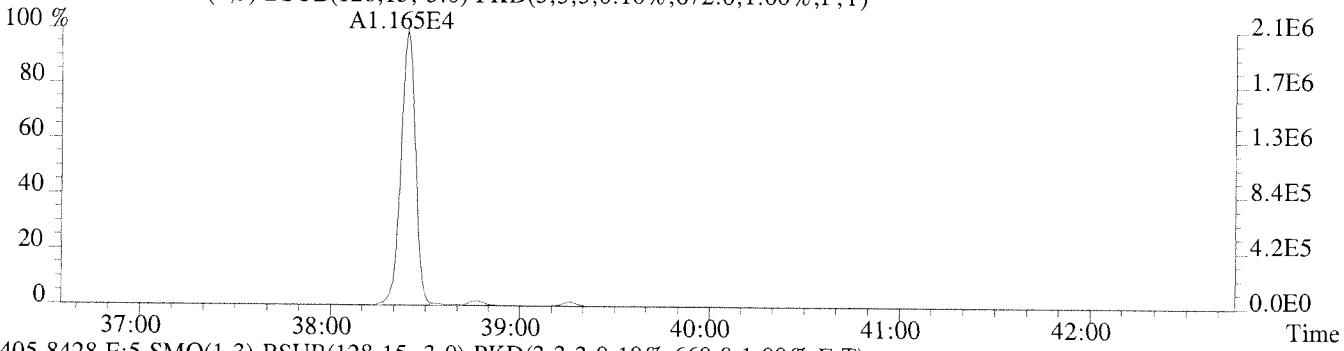


File:U139143 #1-395 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

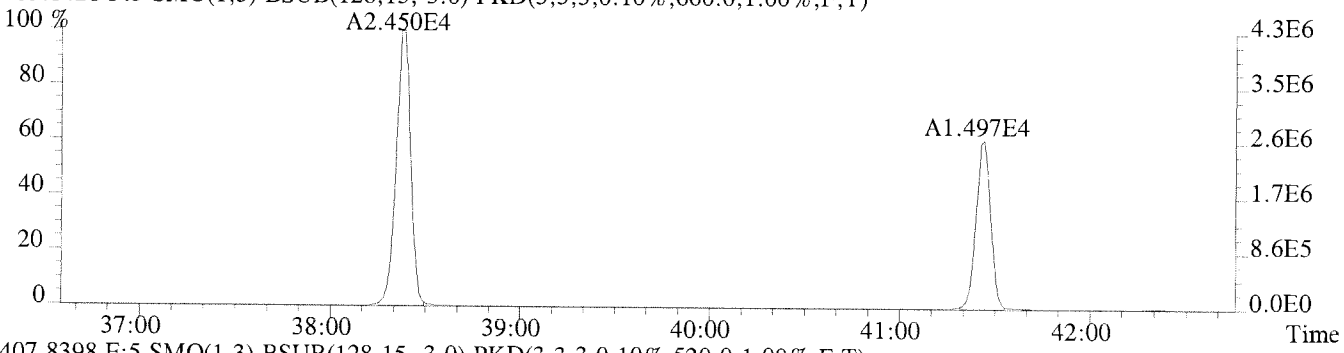
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,588.0,1.00%,F,T)



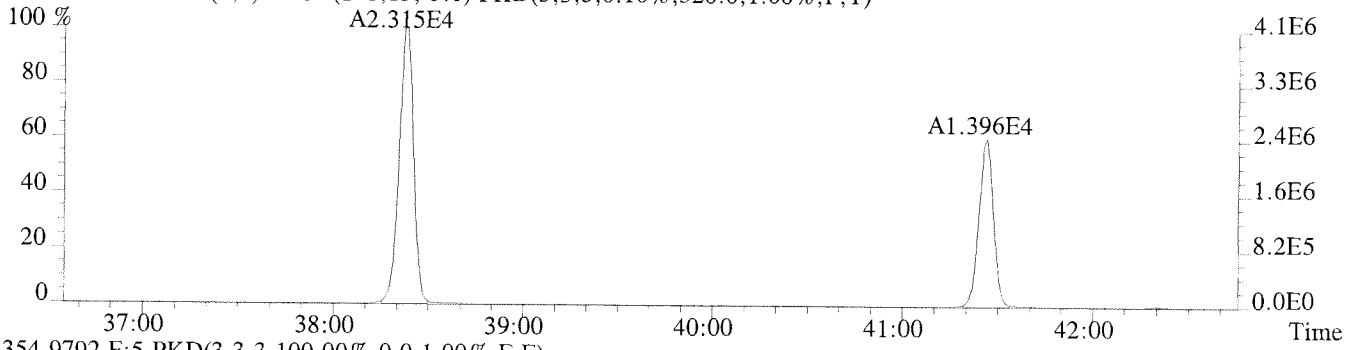
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,672.0,1.00%,F,T)



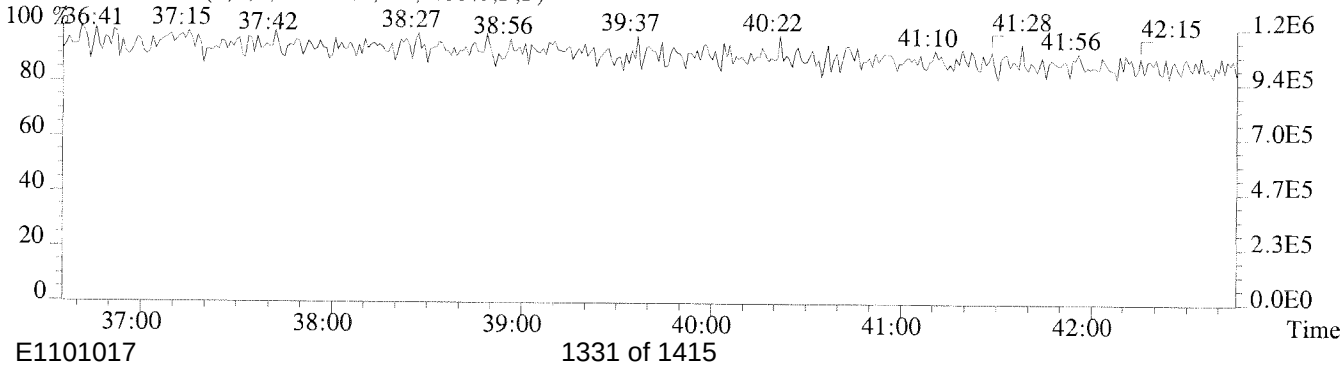
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,660.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,520.0,1.00%,F,T)

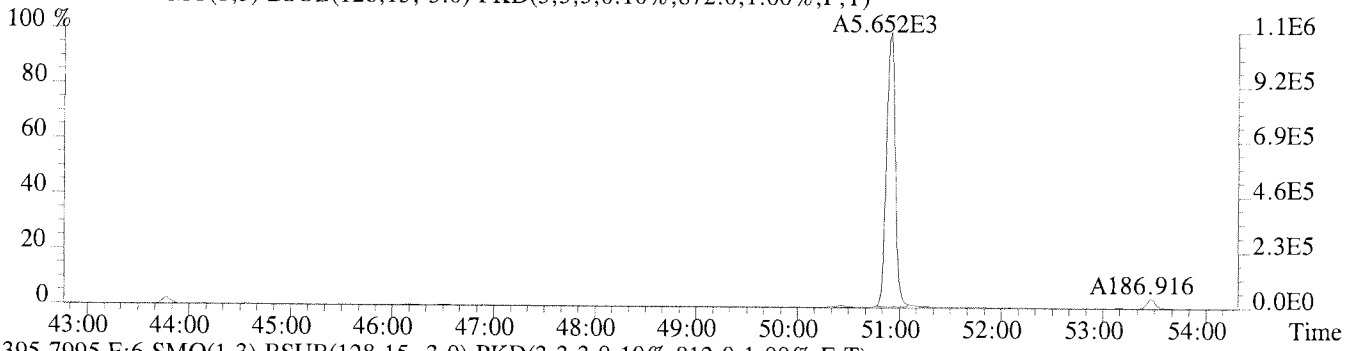


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

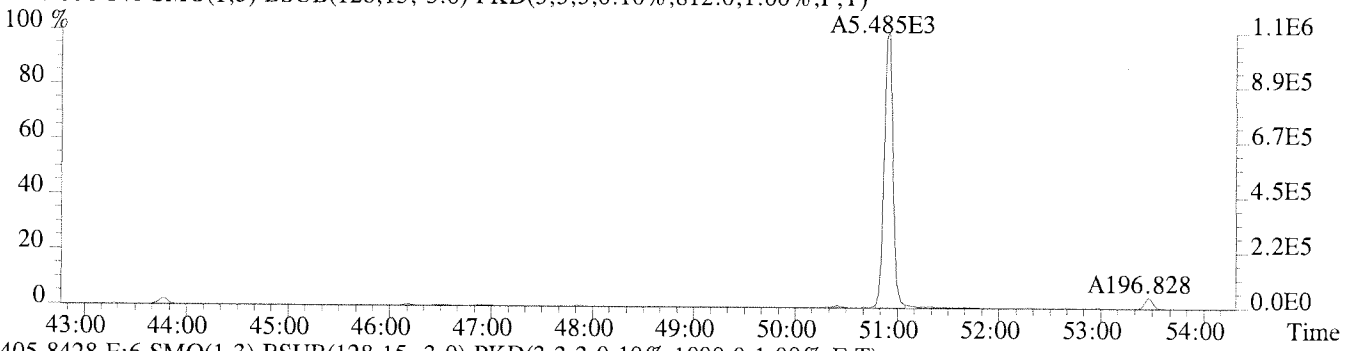


File:U139143 #1-572 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

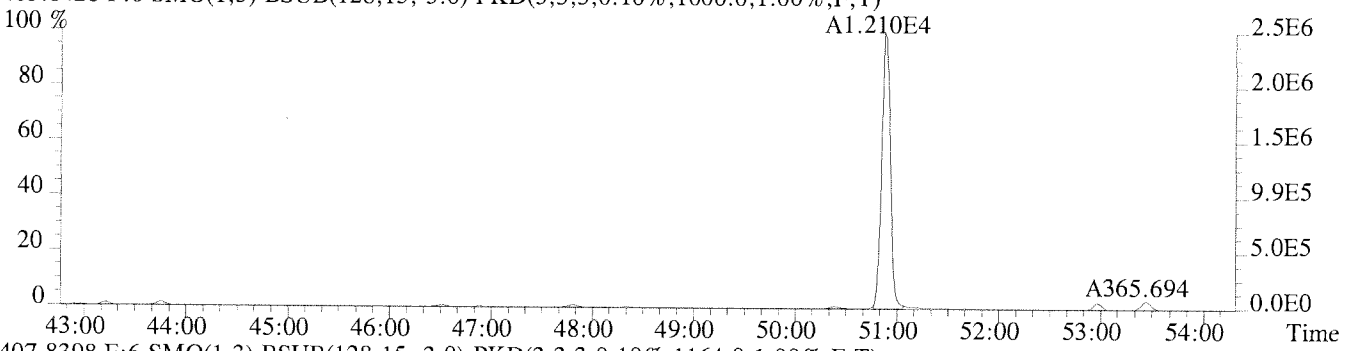
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



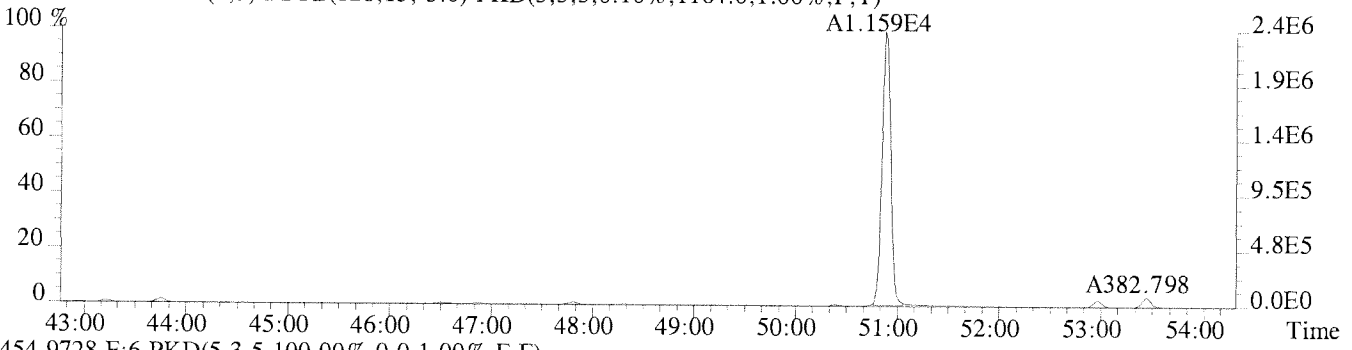
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,812.0,1.00%,F,T)



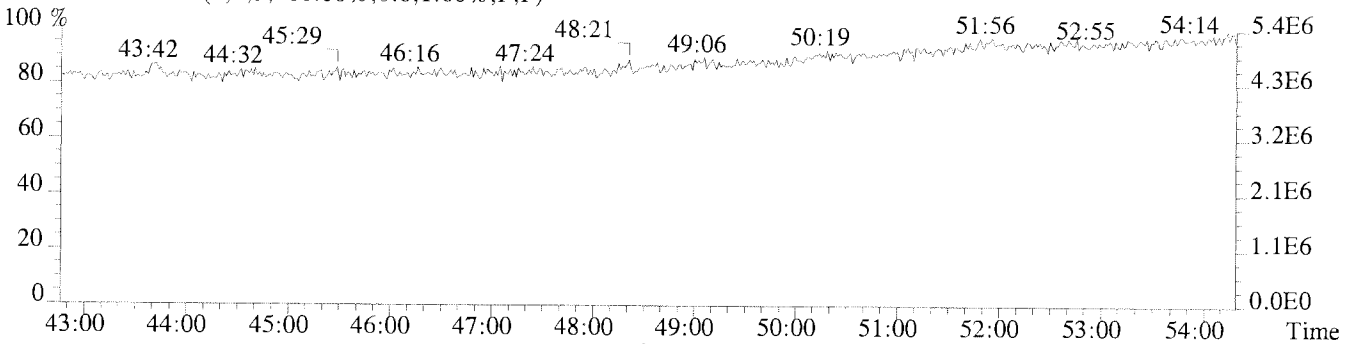
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1164.0,1.00%,F,T)

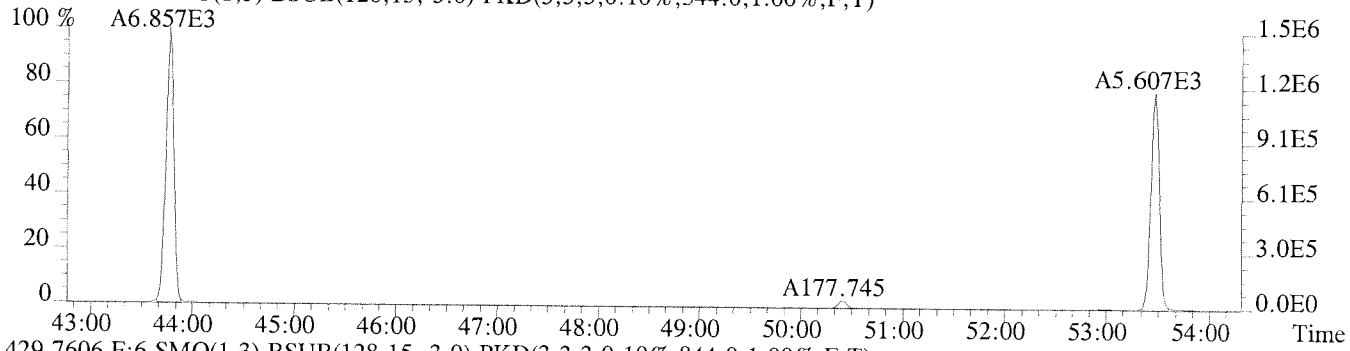


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

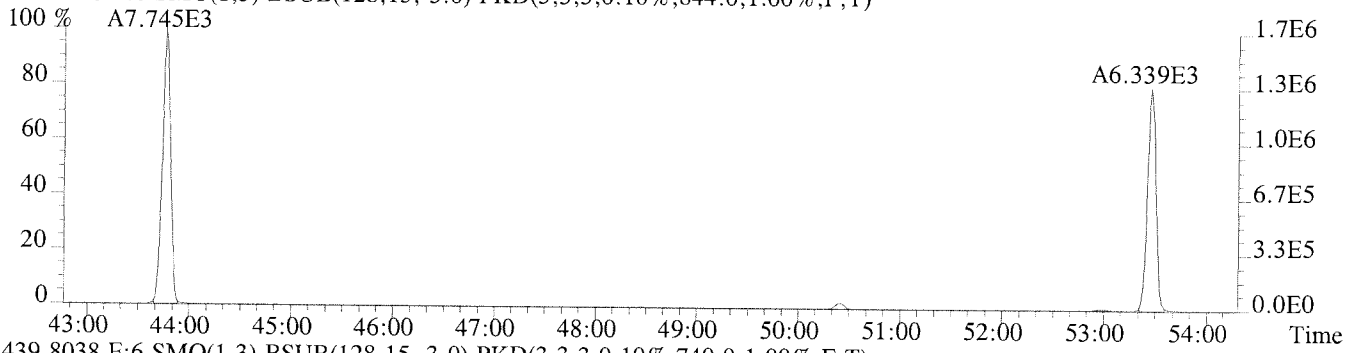


File:U139143 #1-572 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

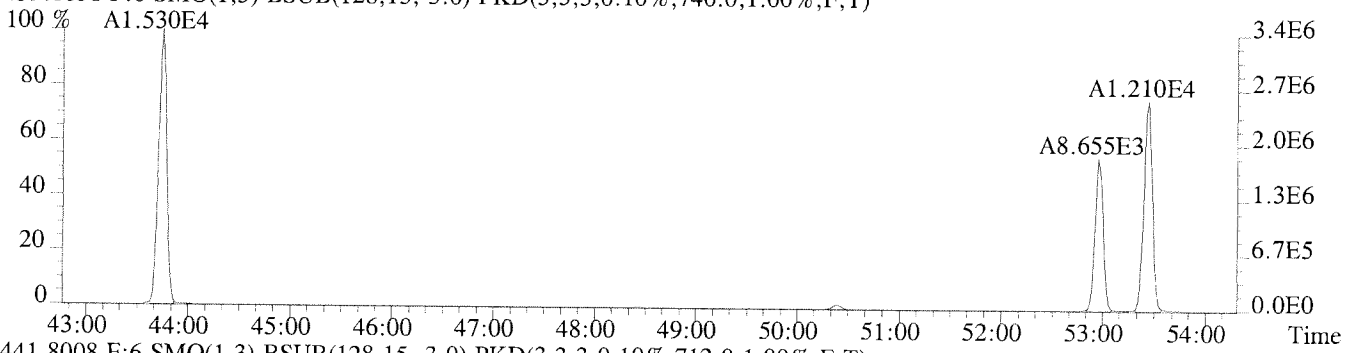
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,544.0,1.00%,F,T)



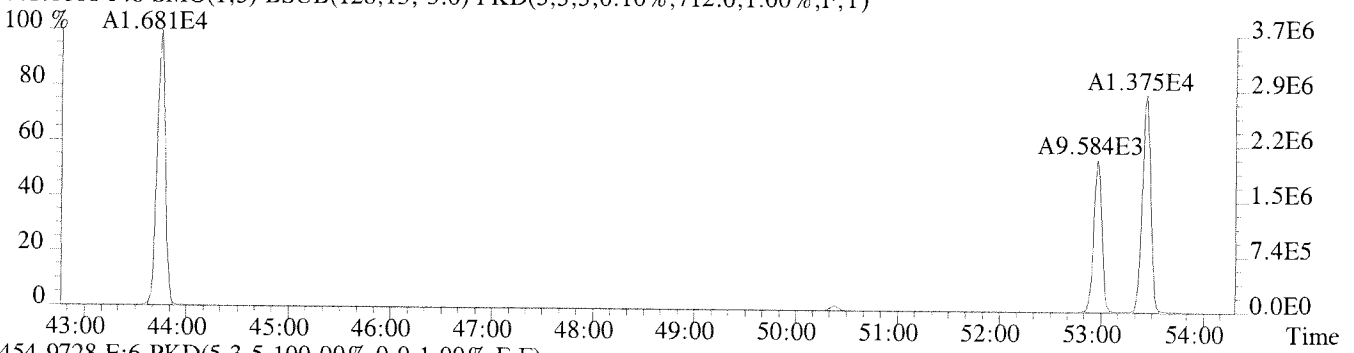
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)



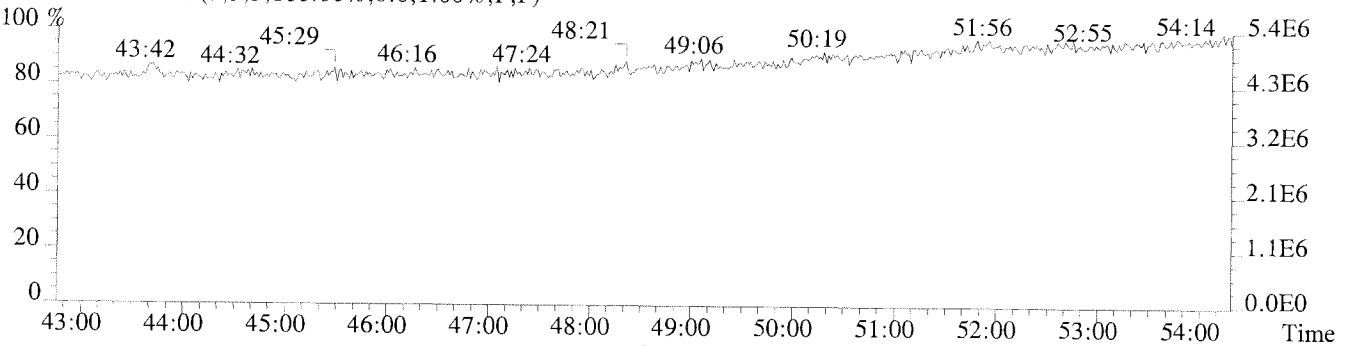
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,740.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,712.0,1.00%,F,T)

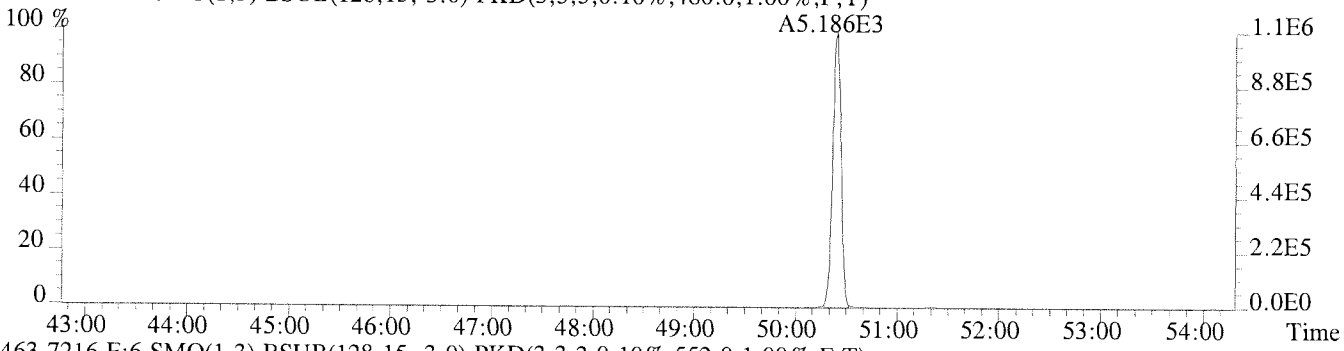


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

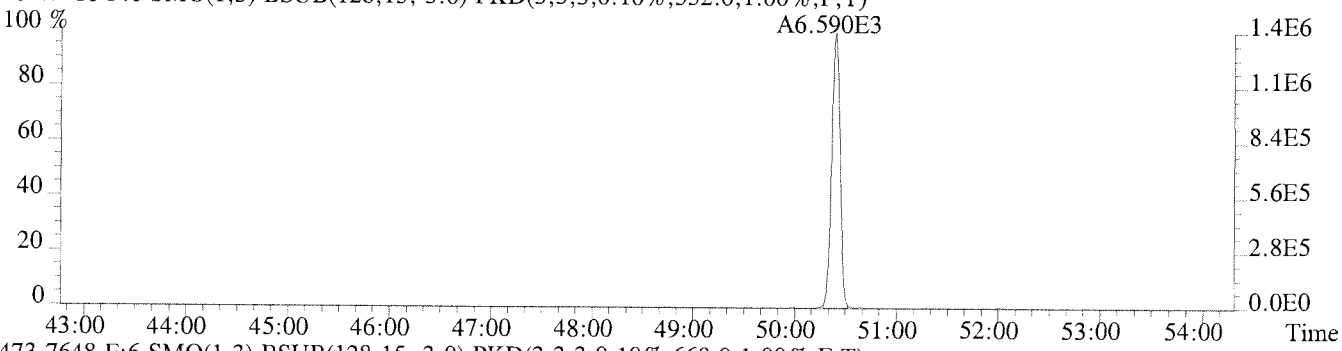


File:U139143 #1-572 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

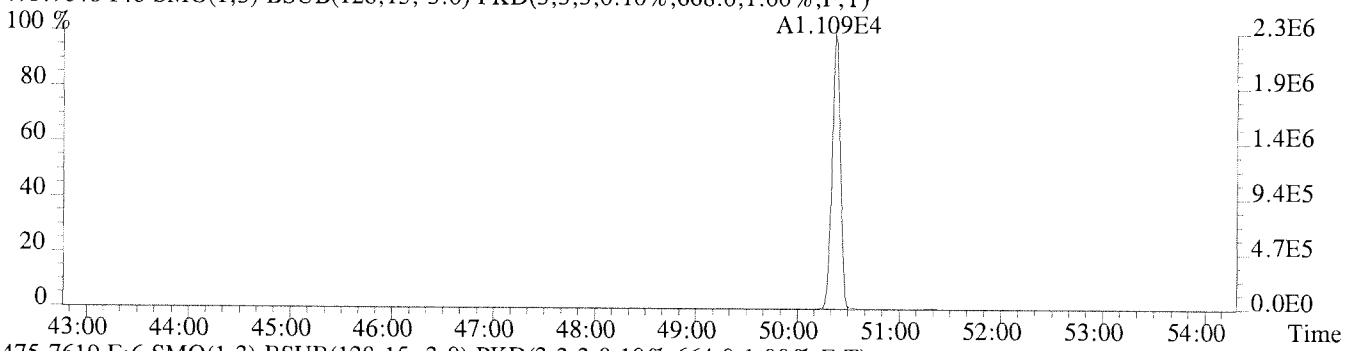
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,480.0,1.00%,F,T)



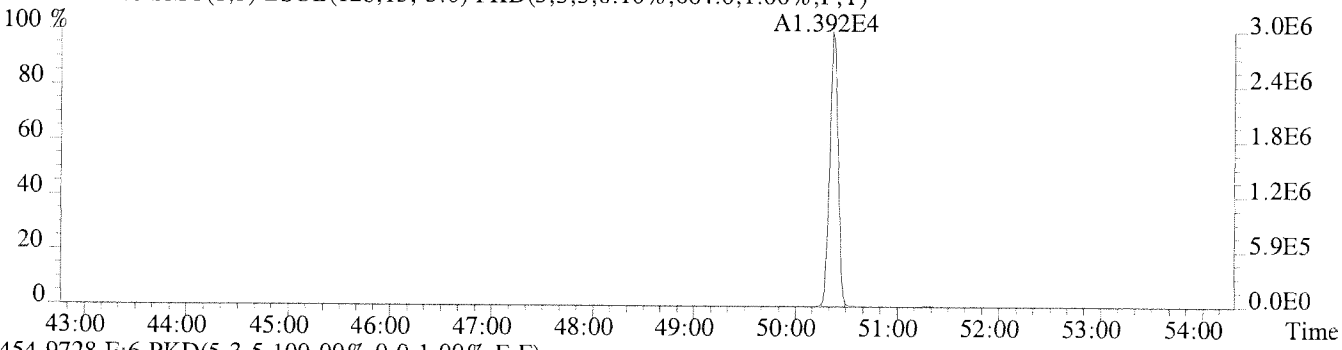
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,552.0,1.00%,F,T)



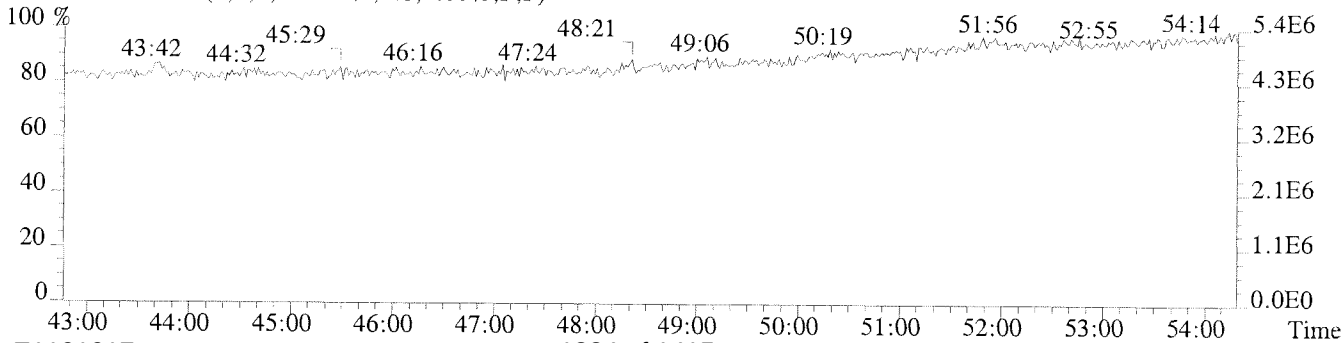
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,668.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,664.0,1.00%,F,T)

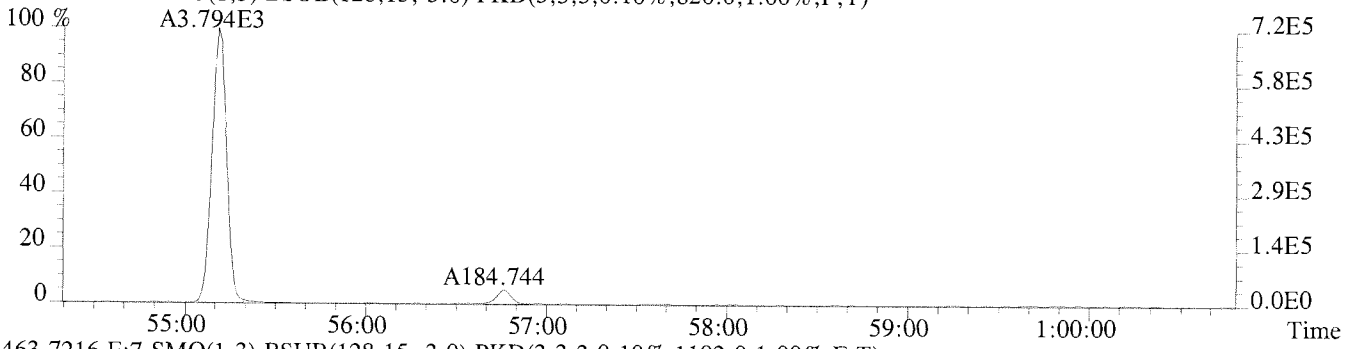


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

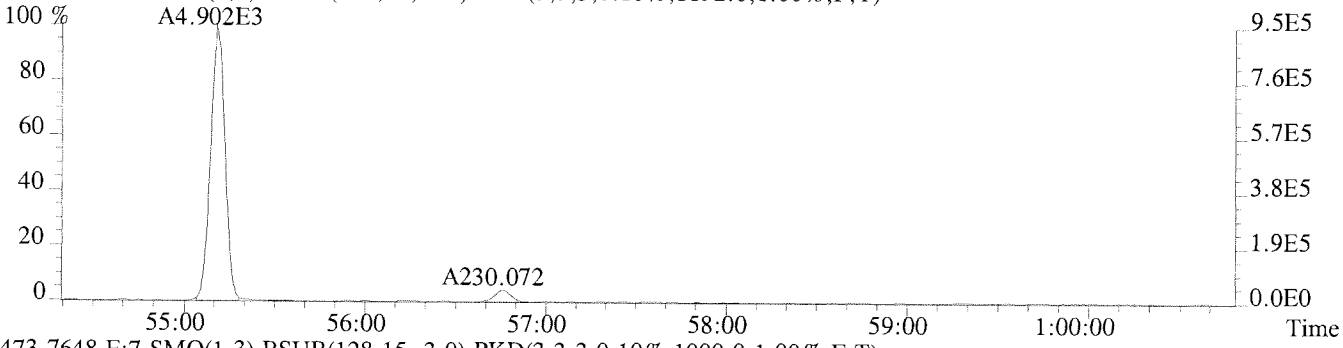


File:U139143 #1-366 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

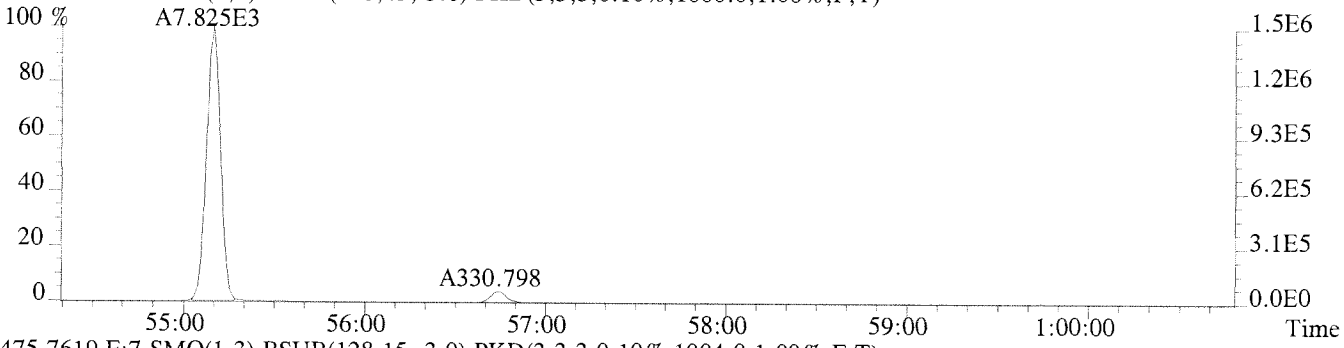
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



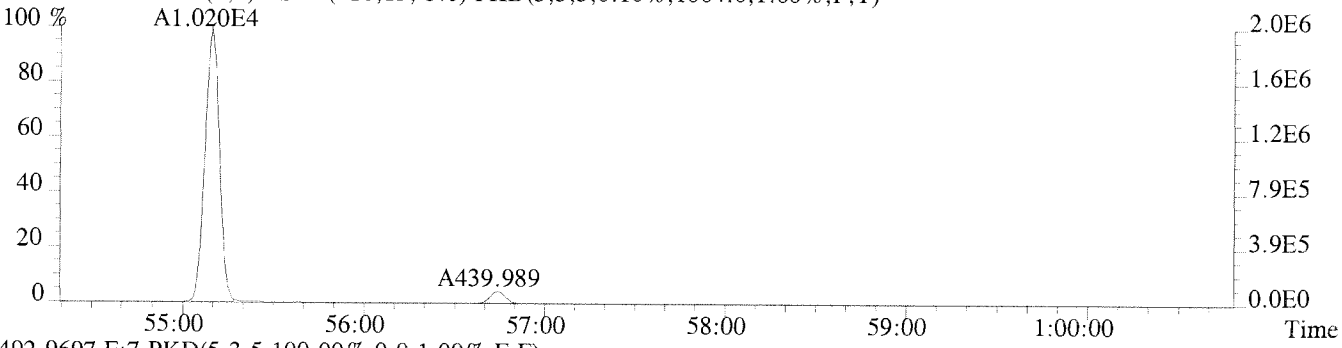
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1192.0,1.00%,F,T)



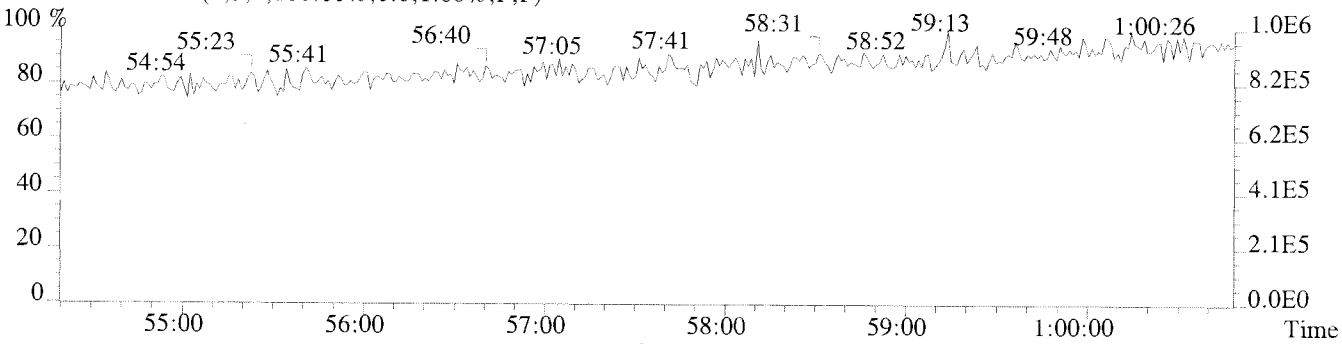
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)

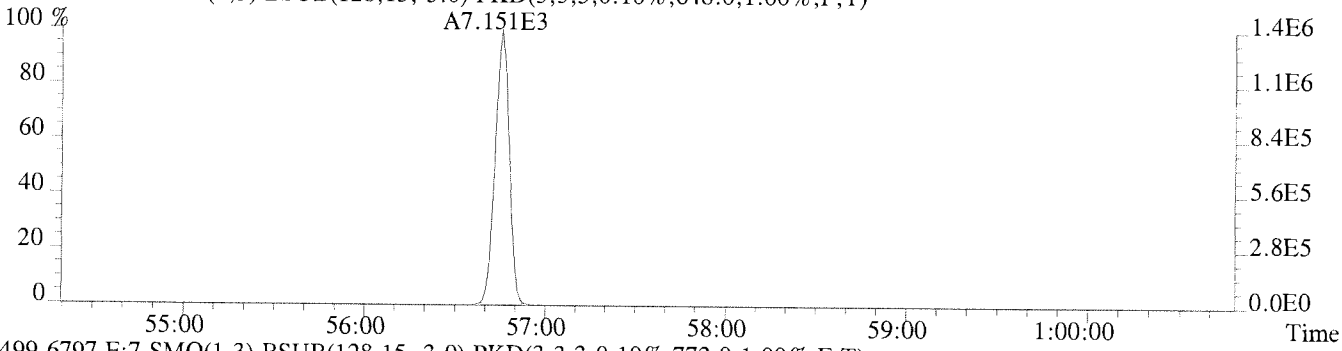


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

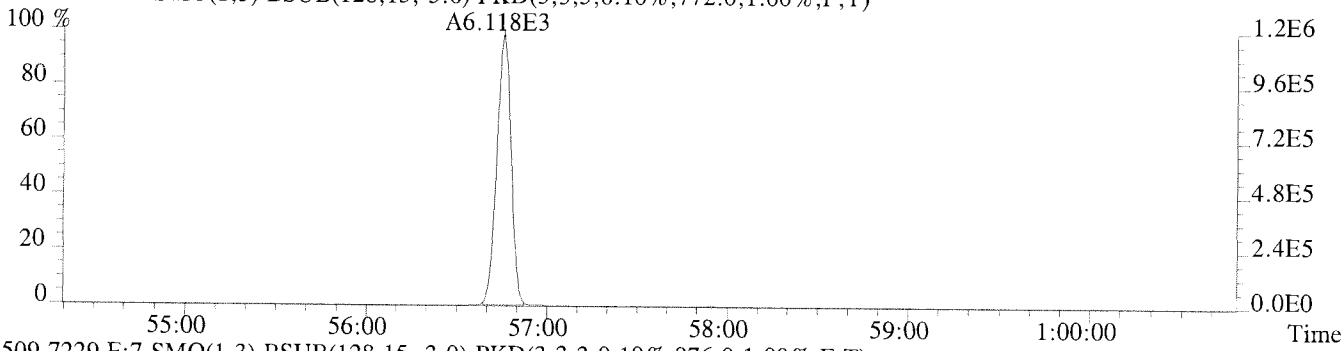


File:U139143 #1-366 Acq:23-FEB-2011 14:38:18 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS3

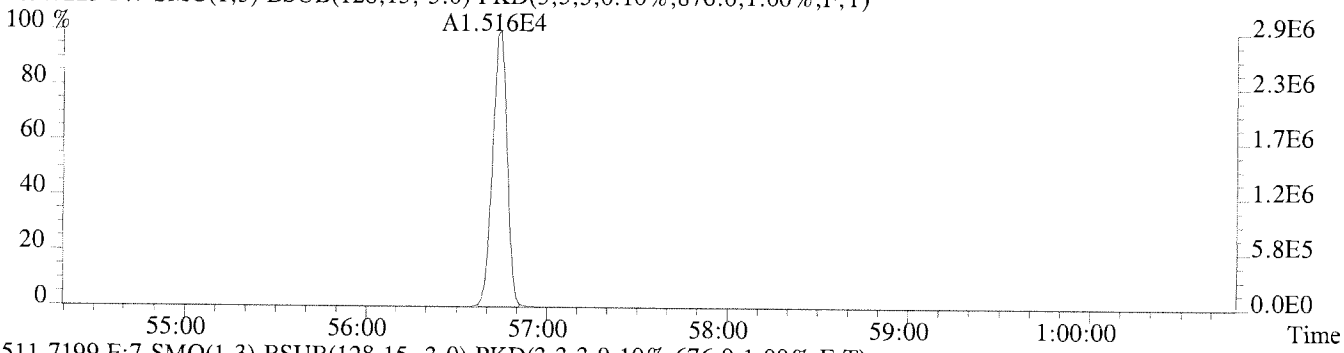
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,648.0,1.00%,F,T)



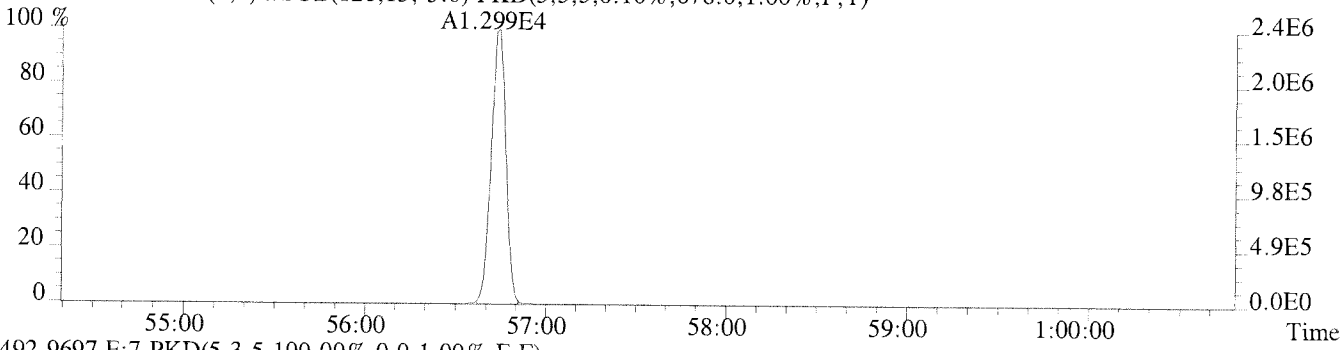
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



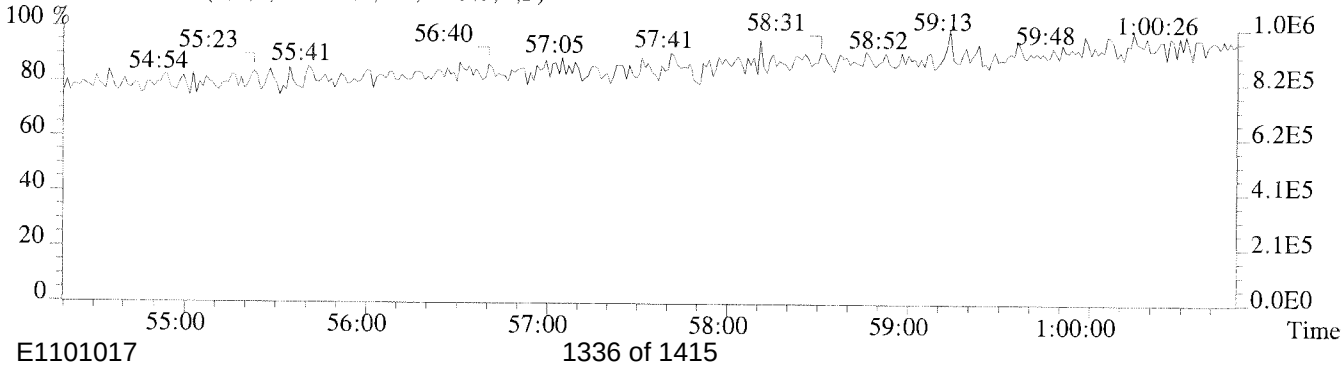
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,676.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL CS4

Run #4 Filename U139144 #1 Samp: 1 Inj: 1 Acquired: 23-FEB-11 15:48:29
Processed: 24-FEB-11 17:57:08 LAB. ID: ICAL CS4

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?	RRT
1	1	2-MoCB	13:03	3.500e+04	1.126e+04	3.11	yes	no	1.001
2	3	4-MoCB	15:15	3.248e+04	1.033e+04	3.15	yes	yes	1.001
3	4	22'-DiCB	15:28	1.900e+04	1.216e+04	1.56	yes	no	1.001
4	15	44'-DiCB	21:24	2.044e+04	1.297e+04	1.58	yes	no	1.001
5	19	22'6'-TrCB	18:34	1.172e+04	1.144e+04	1.02	yes	no	1.001
6	37	344'-TrCB	28:24	1.514e+04	1.439e+04	1.05	yes	no	1.001
7	54	22'66'-TeCB	21:38	1.247e+04	1.623e+04	0.77	yes	no	1.001
8	81	344'5-TeCB	35:07	9.780e+03	1.265e+04	0.77	yes	no	1.001
9	77	33'44'-TeCB	35:42	9.875e+03	1.287e+04	0.77	yes	no	1.001
10	104	22'466'-PeCB	27:05	1.800e+04	1.131e+04	1.59	yes	no	1.001
11	123	2'344'5-PeCB	37:37	1.190e+04	7.369e+03	1.61	yes	no	1.001
12	118	23'44'5-PeCB	37:57	1.244e+04	7.488e+03	1.66	yes	no	1.001
13	114	2344'5-PeCB	38:28	1.230e+04	7.684e+03	1.60	yes	no	1.000
14	105	233'44'-PeCB	39:08	1.150e+04	7.201e+03	1.60	yes	no	1.000
15	126	33'44'5-PeCB	42:14	9.763e+03	5.974e+03	1.63	yes	no	1.001
16	155	22'44'66'-HxCB	32:42	1.565e+04	1.226e+04	1.28	yes	no	1.001
17	167	23'44'55'-HxCB	44:02	8.145e+03	6.616e+03	1.23	yes	no	1.000
18	156/7	233'44'5-HxCB	45:13	1.518e+04	1.251e+04	1.21	yes	no	1.000
19	169	33'44'55'-HxCB	48:27	6.580e+03	5.355e+03	1.23	yes	no	1.000
20	188	22'34'566'-HpCB	38:25	1.201e+04	1.188e+04	1.01	yes	no	1.001
21	189	233'44'55'-HpCB	50:55	5.849e+03	5.823e+03	1.00	yes	no	1.000
22	202	22'33'55'66'-OcCB	43:47	8.398e+03	9.630e+03	0.87	yes	no	1.001
23	205	233'44'55'6-OcCB	53:28	5.969e+03	6.616e+03	0.90	yes	no	1.000
24	208	22'33'4'55'66'-NoCB	50:25	5.473e+03	7.088e+03	0.77	yes	no	1.000
25	206	22'33'44'55'6-NoCB	55:12	4.238e+03	5.498e+03	0.77	yes	no	1.000
26	209	DeCB	56:46	8.251e+03	6.958e+03	1.19	yes	no	1.000
27	1L	13C-2-MoCB	13:02	7.971e+03	2.384e+03	3.34	yes	yes	0.748
28	3L	13C-4-MoCB	15:14	7.519e+03	2.540e+03	2.96	yes	yes	0.875
29	4L	13C-22'-DiCB	15:27	4.320e+03	2.794e+03	1.55	yes	no	0.887
30	15L	13C-44'-DiCB	21:23	4.743e+03	3.281e+03	1.45	yes	no	1.228
31	19L	13C-22'6'-TrCB	18:33	2.956e+03	2.825e+03	1.05	yes	no	1.065
32	37L	13C-344'-TrCB	28:23	3.625e+03	3.141e+03	1.15	yes	yes	1.086
33	54L	13C-22'66'-TeCB	21:37	3.258e+03	4.016e+03	0.81	yes	no	0.827
34	81L	13C-344'5-TeCB	35:05	2.398e+03	3.102e+03	0.77	yes	no	1.342
35	77L	13C-33'44'-TeCB	35:40	2.370e+03	3.279e+03	0.72	yes	no	1.365
36	104L	13C-22'466'-PeCB	27:03	4.332e+03	2.729e+03	1.59	yes	no	0.821
37	123L	13C-2'344'5-PeCB	37:35	3.043e+03	1.789e+03	1.70	yes	no	1.141
38	118L	13C-23'44'5-PeCB	37:55	3.038e+03	1.939e+03	1.57	yes	no	1.151
39	114L	13C-2344'5-PeCB	38:27	3.112e+03	1.877e+03	1.66	yes	no	1.167
40	105L	13C-233'44'-PeCB	39:07	2.855e+03	1.759e+03	1.62	yes	no	1.187
41	126L	13C-33'44'5-PeCB	42:12	2.711e+03	1.623e+03	1.67	yes	no	1.281
42	155L	13C-22'44'66'-HxCB	32:41	3.983e+03	3.136e+03	1.27	yes	no	0.797
43	167L	13C-23'44'55'-HxCB	44:01	2.130e+03	1.634e+03	1.30	yes	no	1.073
44	156/7	13C-233'44'5'-HxCB	45:12	3.829e+03	2.991e+03	1.28	yes	no	1.102
45	169L	13C-33'44'55'-HxCB	48:26	1.765e+03	1.415e+03	1.25	yes	no	1.181
46	188L	13C-22'34'566'-HpCB	38:23	3.100e+03	2.936e+03	1.06	yes	no	0.724
47	189L	13C-233'44'55'-HpCB	50:54	1.806e+03	1.775e+03	1.02	yes	no	0.961
48	202L	13C-22'33'55'66'-OcCB	43:45	2.486e+03	2.854e+03	0.87	yes	no	0.826
49	205L	13C-233'44'55'6-OcCB	53:27	1.778e+03	1.922e+03	0.92	yes	no	1.009
50	208L	13C-22'33'4'55'66'-NoCB	50:24	1.583e+03	1.992e+03	0.79	yes	no	0.951
51	206L	13C-22'33'44'55'6-NoCB	55:11	1.195e+03	1.533e+03	0.78	yes	no	1.042
52	209L	13C-DeCB	56:45	2.397e+03	2.089e+03	1.15	yes	no	1.071

53	28L	13C-244'-TrCB	24:20	4.264e+03	4.082e+03	1.04	yes	yes	0.931
54	111L	13C-233'55'-PeCB	35:37	3.717e+03	2.373e+03	1.57	yes	no	1.081
55	178L	13C-22'33'55'6-HpCB	41:26	2.077e+03	2.028e+03	1.02	yes	no	1.010
56	9L	13C-2,5-DiCB	17:25	5.308e+03	3.479e+03	1.53	yes	no	*
57	52L	13C-22'55'-TeCB	26:08	2.743e+03	3.581e+03	0.77	yes	no	*
58	101L	13C-22'4'55'-PeCB	32:57	3.094e+03	1.973e+03	1.57	yes	no	*
59	138L	13C-22'3'44'5'-HxCB	41:01	2.357e+03	1.802e+03	1.31	yes	no	*
60	194L	13C-22'33'44'55'-OcCB	52:59	1.345e+03	1.479e+03	0.91	yes	no	*

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL CS4

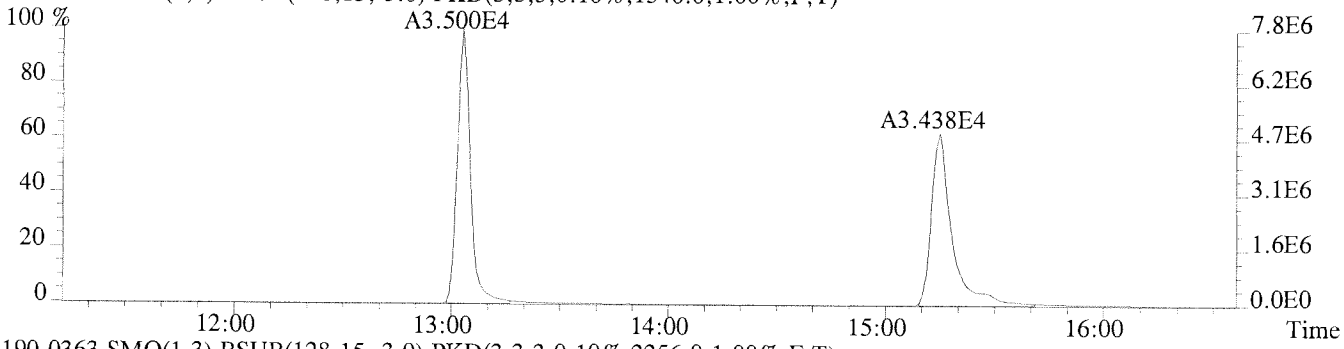
Run #4 Filename U139144 Samp: 1 Inj: 1 Acquired: 23-FEB-11 15:48:29
Processed: 24-FEB-11 17:57:081 LAB. ID: ICAL CS4

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	7.81e+06	1.54e+03	5.1e+03	2.50e+06	2.26e+03	1.1e+03
2	4-MoCB	4.90e+06	1.54e+03	3.2e+03	1.57e+06	2.26e+03	6.9e+02
3	22'-DiCB	3.69e+06	2.14e+03	1.7e+03	2.38e+06	9.02e+03	2.6e+02
4	44'-DiCB	2.67e+06	2.49e+03	1.1e+03	1.66e+06	7.91e+03	2.1e+02
[illegible]	22'6'-TrCB	2.25e+06	9.72e+02	2.3e+03	2.22e+06	1.28e+03	1.7e+03
6	344'-TrCB	1.75e+06	1.35e+03	1.3e+03	1.69e+06	1.23e+03	1.4e+03
7	22'66'-TeCB	2.35e+06	9.04e+02	2.6e+03	3.05e+06	8.80e+02	3.5e+03
8	344'5-TeCB	1.38e+06	6.04e+02	2.3e+03	1.75e+06	1.76e+03	1.0e+03
9	33'44'-TeCB	1.25e+06	6.04e+02	2.1e+03	1.59e+06	1.76e+03	9.1e+02
10	22'466'-PeCB	3.04e+06	1.14e+03	2.7e+03	1.91e+06	1.22e+03	1.6e+03
11	2'344'5-PeCB	1.98e+06	1.91e+04	1.0e+02	1.24e+06	1.78e+04	7.0e+01
12	23'44'5-PeCB	1.99e+06	1.91e+04	1.0e+02	1.24e+06	1.78e+04	7.0e+01
13	2344'5-PeCB	2.02e+06	1.91e+04	1.1e+02	1.29e+06	1.78e+04	7.3e+01
14	233'44'-PeCB	1.82e+06	1.91e+04	9.5e+01	1.18e+06	1.78e+04	6.7e+01
15	33'44'5-PeCB	1.45e+06	1.91e+04	7.6e+01	9.04e+05	1.78e+04	5.1e+01
16	22'44'66'-HxCB	2.83e+06	6.48e+02	4.4e+03	2.22e+06	7.48e+02	3.0e+03
17	23'44'55'-HxCB	1.63e+06	4.04e+03	4.0e+02	1.32e+06	2.85e+03	4.6e+02
[illegible]	233'44'5-HxCB	2.13e+06	4.04e+03	5.3e+02	1.78e+06	2.85e+03	6.2e+02
[illegible]	33'44'55'-HxCB	1.25e+06	4.04e+03	3.1e+02	1.04e+06	2.85e+03	3.6e+02
[illegible]	22'34'566'-HpCB	2.12e+06	7.36e+02	2.9e+03	2.11e+06	6.52e+02	3.2e+03
21	233'44'55'-HpCB	1.21e+06	7.72e+02	1.6e+03	1.19e+06	8.44e+02	1.4e+03
22	22'33'55'66'-OcCB	1.85e+06	6.60e+02	2.8e+03	2.11e+06	8.68e+02	2.4e+03
23	233'44'55'6-OcCB	1.25e+06	6.60e+02	1.9e+03	1.39e+06	8.68e+02	1.6e+03
[illegible]	22'33'4'55'66'-NoCB	1.18e+06	9.04e+02	1.3e+03	1.55e+06	7.76e+02	2.0e+03
25	22'33'44'55'6-NoCB	8.38e+05	9.84e+02	8.5e+02	1.06e+06	1.49e+03	7.1e+02
26	DeCB	1.57e+06	7.48e+02	2.1e+03	1.34e+06	7.52e+02	1.8e+03
27	13C-2-MoCB	1.81e+06	1.28e+03	1.4e+03	5.65e+05	5.28e+04	1.1e+01
28	13C-4-MoCB	1.16e+06	1.28e+03	9.1e+02	3.92e+05	5.28e+04	7.4e+00
29	13C-22'-DiCB	8.16e+05	5.40e+03	1.5e+02	5.37e+05	2.13e+03	2.5e+02
30	13C-44'-DiCB	6.65e+05	9.05e+03	7.4e+01	4.33e+05	2.80e+03	1.5e+02
31	13C-22'6'-TrCB	5.79e+05	1.50e+04	3.9e+01	5.43e+05	8.90e+03	6.1e+01
32	13C-344'-TrCB	4.25e+05	1.51e+04	2.8e+01	3.96e+05	1.12e+04	3.6e+01
33	13C-22'66'-TeCB	6.09e+05	1.61e+03	3.8e+02	7.33e+05	1.36e+03	5.4e+02
34	13C-344'5-TeCB	3.56e+05	2.03e+03	1.8e+02	4.30e+05	8.88e+02	4.8e+02
[illegible]	13C-33'44'-TeCB	3.29e+05	2.03e+03	1.6e+02	4.22e+05	8.88e+02	4.7e+02
[illegible]	13C-22'466'-PeCB	7.45e+05	9.64e+02	7.7e+02	4.67e+05	7.80e+02	6.0e+02
[illegible]	13C-2'344'5-PeCB	4.85e+05	4.77e+03	1.0e+02	2.99e+05	6.38e+03	4.7e+01
[illegible]	13C-23'44'5-PeCB	4.95e+05	4.77e+03	1.0e+02	3.20e+05	6.38e+03	5.0e+01
39	13C-2344'5-PeCB	5.29e+05	4.77e+03	1.1e+02	3.32e+05	6.38e+03	5.2e+01
40	13C-233'44'-PeCB	4.50e+05	4.77e+03	9.4e+01	2.88e+05	6.38e+03	4.5e+01
41	13C-33'44'5-PeCB	3.93e+05	4.77e+03	8.2e+01	2.63e+05	6.38e+03	4.1e+01
[illegible]	13C-22'44'66'-HxCB	7.22e+05	9.12e+02	7.9e+02	5.57e+05	9.04e+02	6.2e+02
43	13C-23'44'55'-HxCB	4.22e+05	6.88e+02	6.1e+02	3.38e+05	1.04e+03	3.2e+02
44	13C-233'44'5'-HxCB	5.45e+05	6.88e+02	7.9e+02	4.25e+05	1.04e+03	4.1e+02
45	13C-33'44'55'-HxCB	3.50e+05	6.88e+02	5.1e+02	2.71e+05	1.04e+03	2.6e+02
46	13C-22'34'566'-HpCB	5.47e+05	9.00e+02	6.1e+02	5.48e+05	7.08e+02	7.7e+02
47	13C-233'44'55'-HpCB	3.72e+05	9.64e+02	3.9e+02	3.74e+05	7.64e+02	4.9e+02
48	13C-22'33'55'66'-OcCB	5.35e+05	5.88e+02	9.1e+02	6.14e+05	9.60e+02	6.4e+02
49	13C-233'44'55'6-OcCB	3.70e+05	5.88e+02	6.3e+02	4.01e+05	9.60e+02	4.2e+02
50	13C-22'33'4'55'66'-NoCB	3.47e+05	8.00e+02	4.3e+02	4.32e+05	6.32e+02	6.8e+02
51	13C-22'33'44'55'6-NoCB	2.28e+05	9.92e+02	2.3e+02	2.79e+05	8.76e+02	3.2e+02
52	13C-DeCB	4.65e+05	7.80e+02	6.0e+02	4.07e+05	1.00e+03	4.1e+02

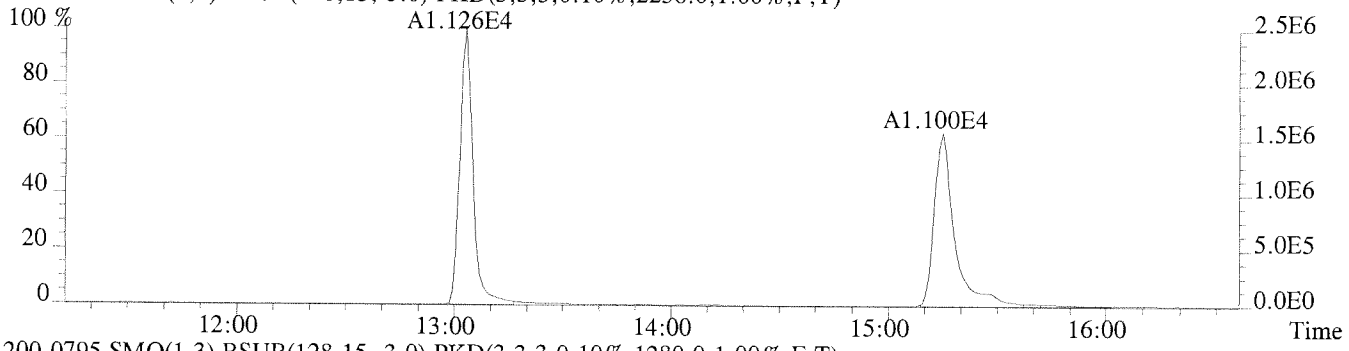
13C-244'-TrCB	6.26e+05	1.51e+04	4.1e+01	6.02e+05	1.12e+04	5.4e+01
13C-233'55'-PeCB	6.10e+05	1.17e+03	5.2e+02	4.05e+05	1.39e+03	2.9e+02
13C-22'33'55'6-HpCB	3.65e+05	9.00e+02	4.1e+02	3.61e+05	7.08e+02	5.1e+02
13C-2,5-DiCB	9.41e+05	9.05e+03	1.0e+02	6.22e+05	2.80e+03	2.2e+02
13C-22'55'-TeCB	4.43e+05	2.02e+03	2.2e+02	5.57e+05	1.04e+03	5.4e+02
13C-22'4'55'-PeCB	5.03e+05	1.17e+03	4.3e+02	3.30e+05	1.39e+03	2.4e+02
13C-22'3'44'5'-HxCB	3.95e+05	7.68e+02	5.1e+02	2.98e+05	9.04e+02	3.3e+02
13C-22'33'44'55'-OcCB	2.84e+05	5.88e+02	4.8e+02	3.15e+05	9.60e+02	3.3e+02

File:U139144 #1-347 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

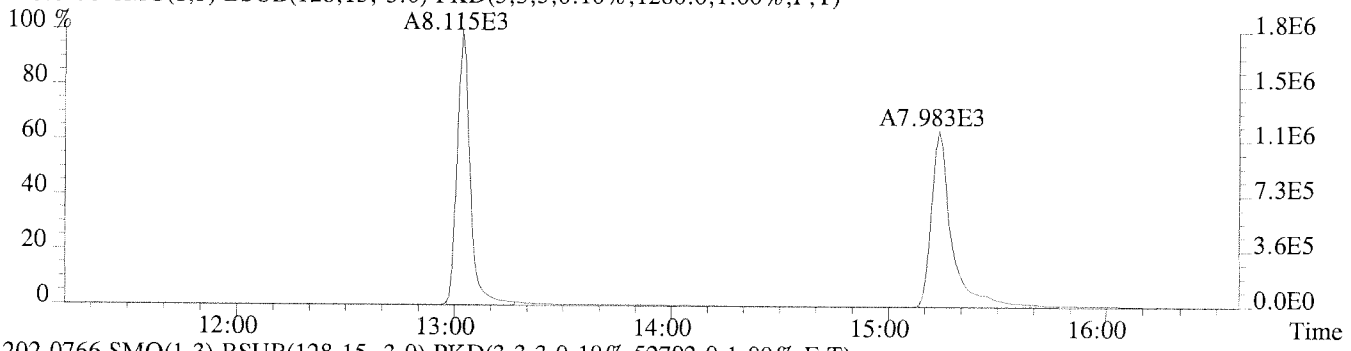
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1540.0,1.00%,F,T)



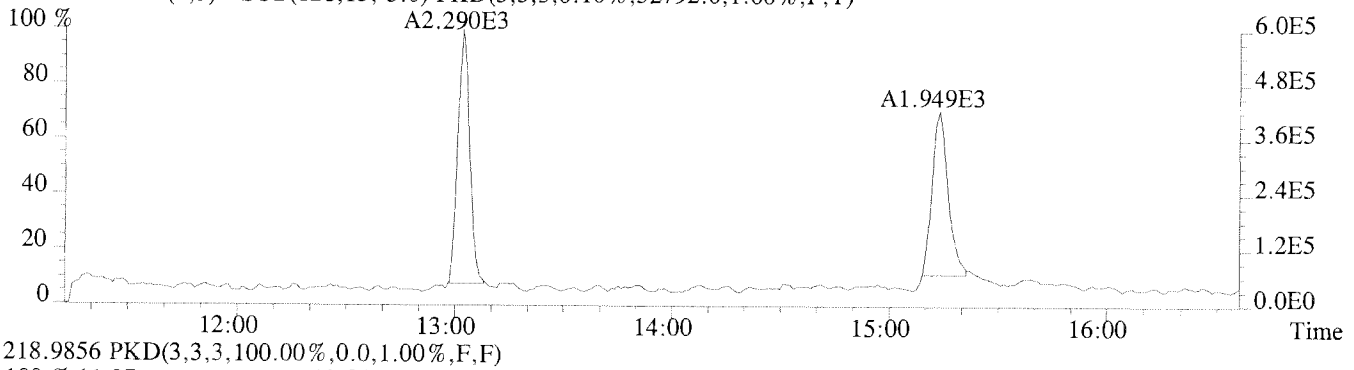
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2256.0,1.00%,F,T)



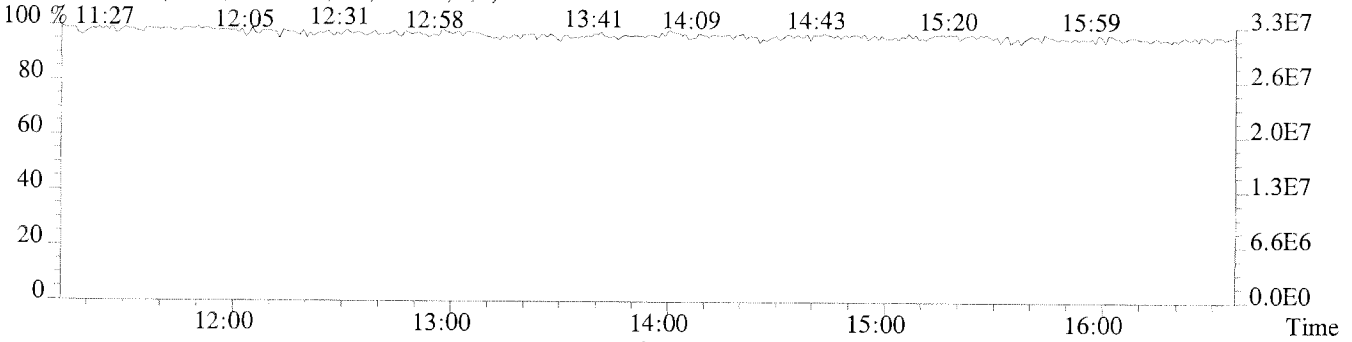
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



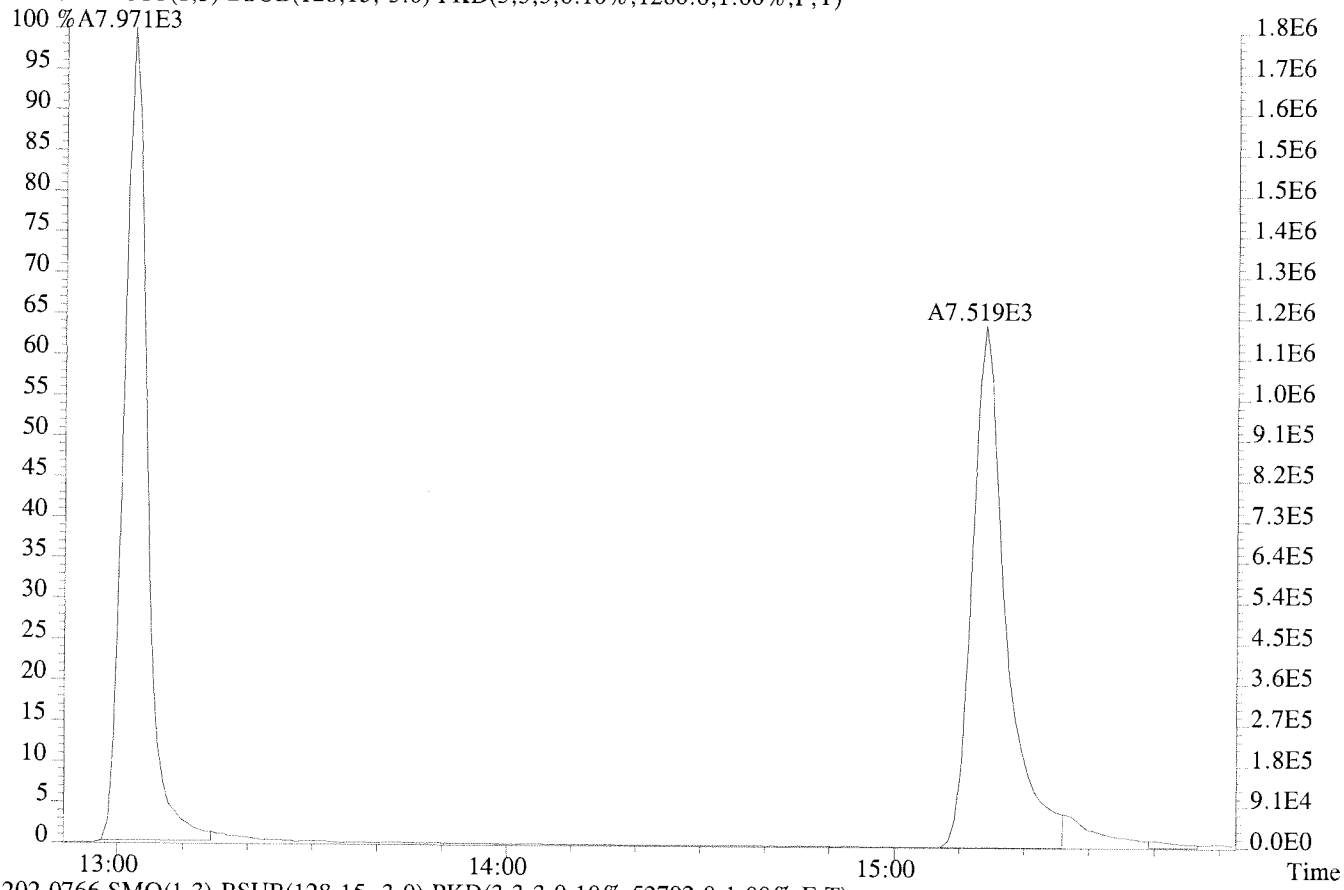
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,52792.0,1.00%,F,T)



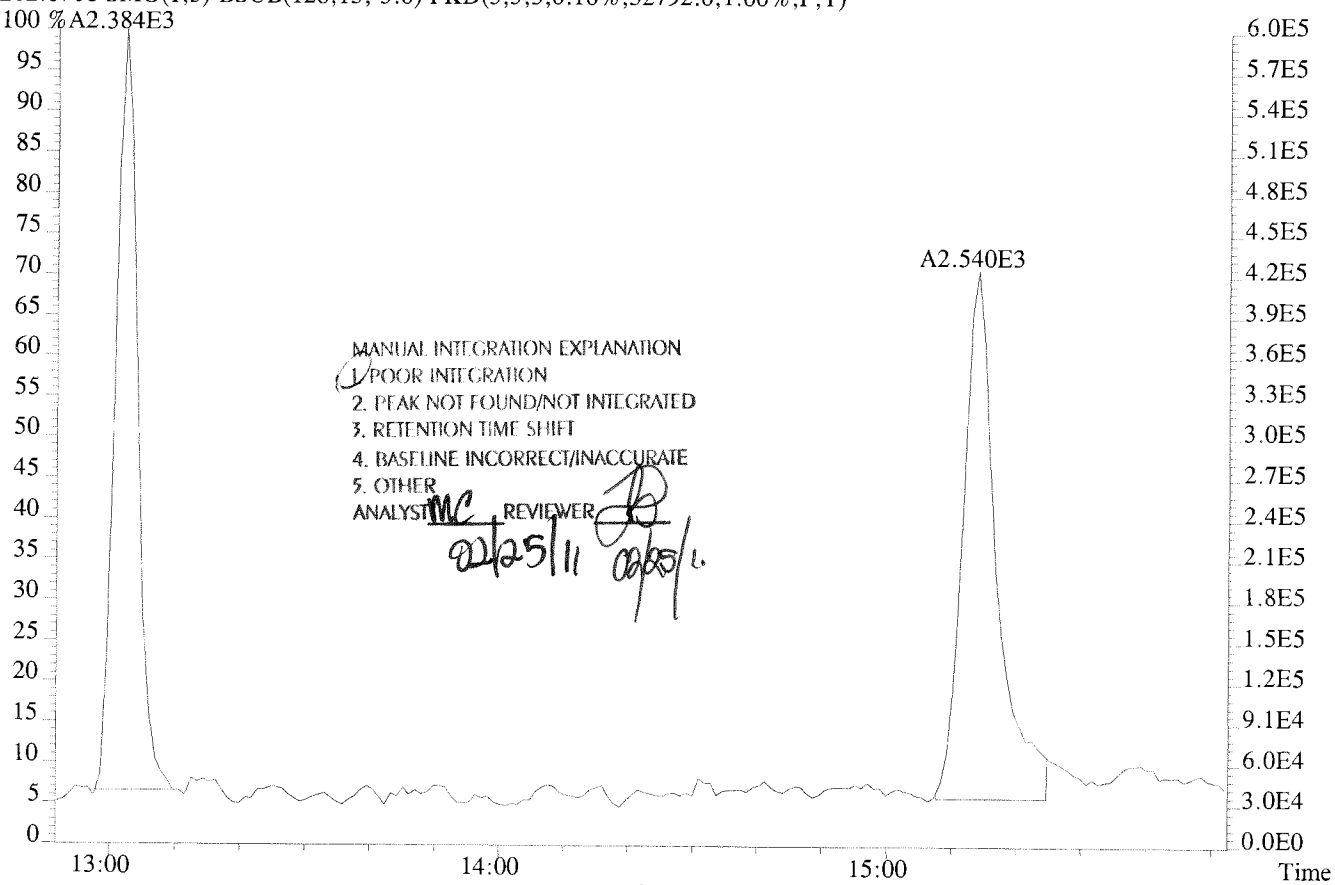
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139144 #1-347 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)

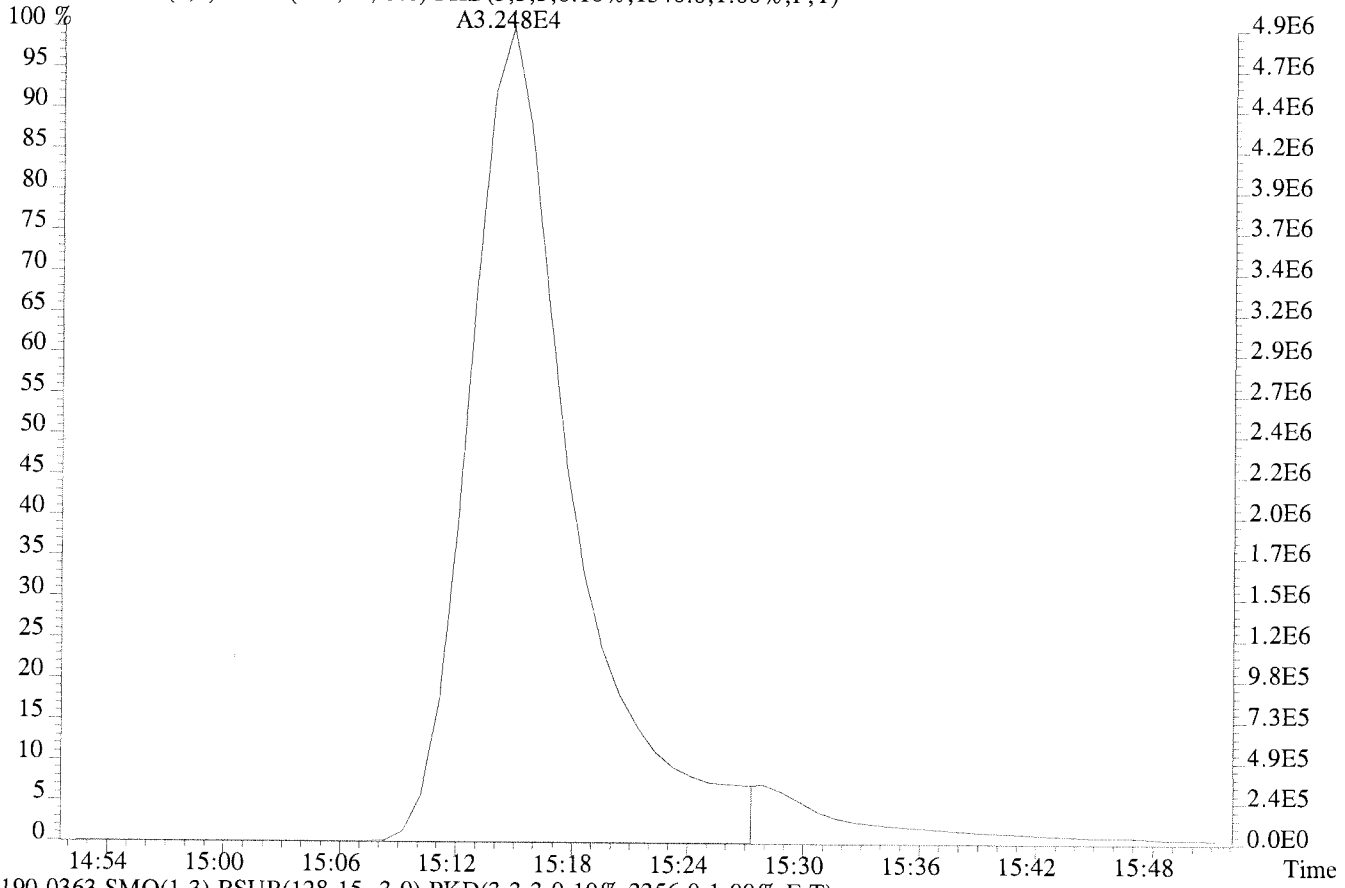


202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,52792.0,1.00%,F,T)

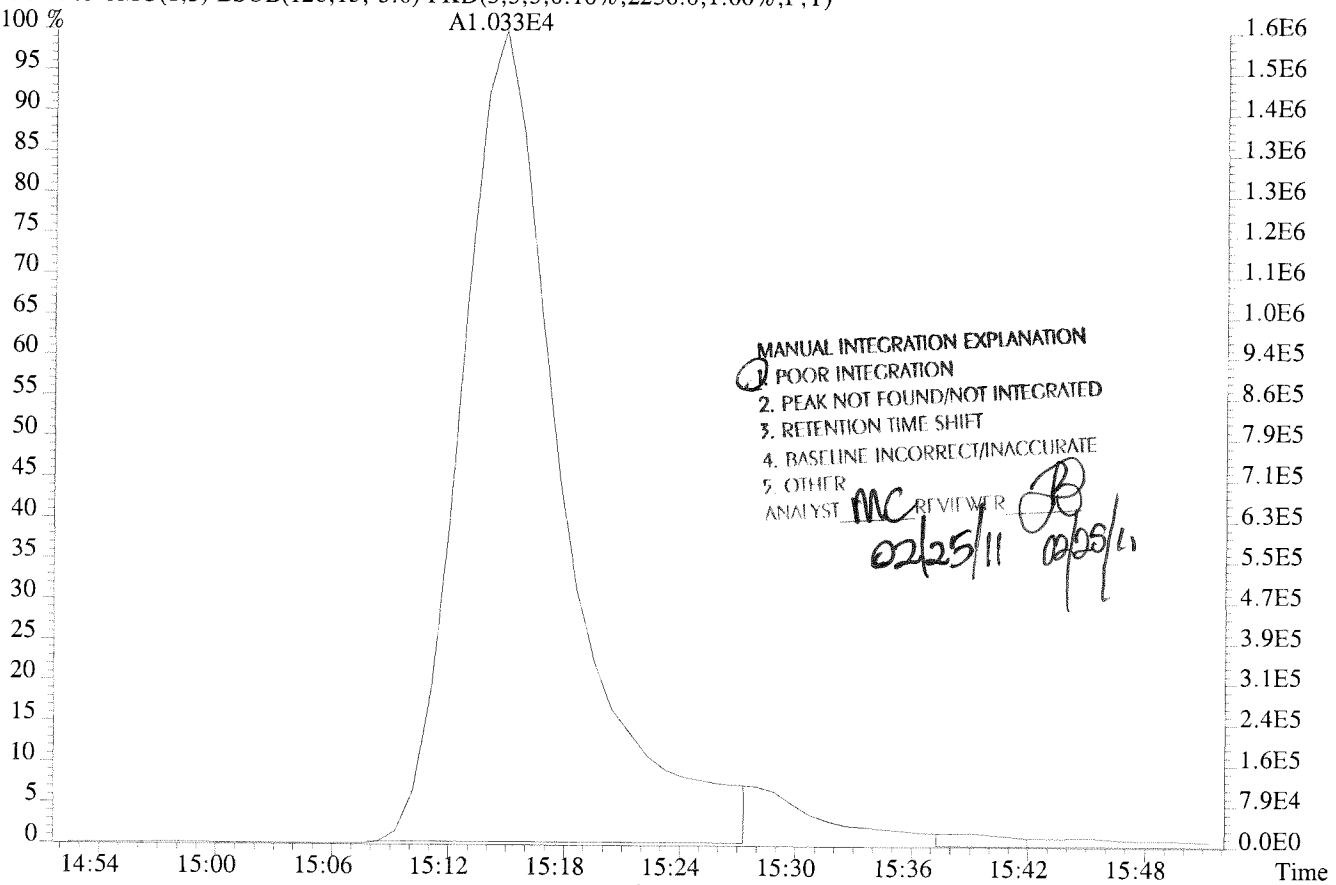


MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/25/11 02/25/11

File:U139144 #1-347 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1540.0,1.00%,F,T)



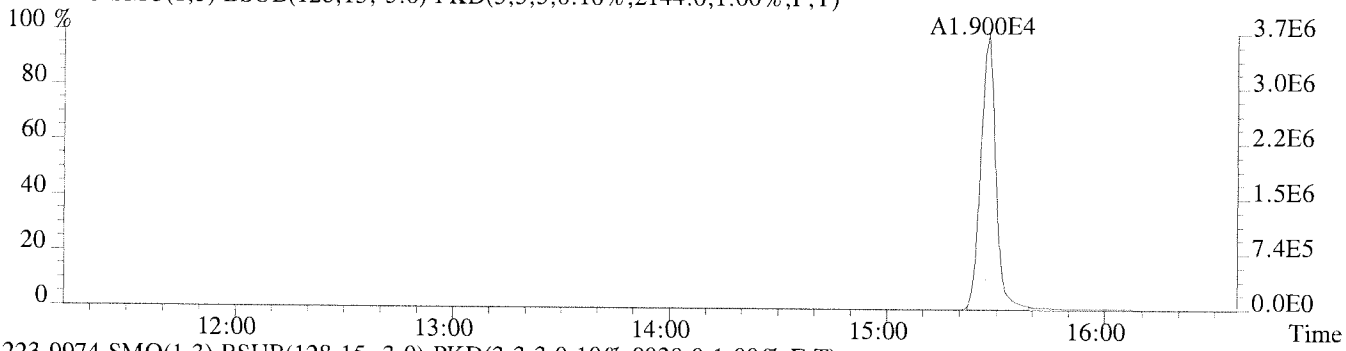
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2256.0,1.00%,F,T)



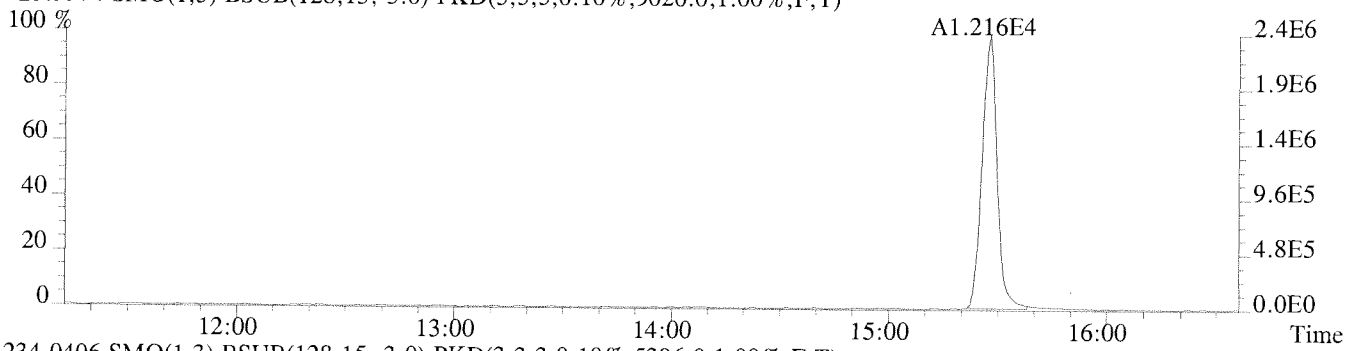
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/25/11 02/25/11

File:U139144 #1-347 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

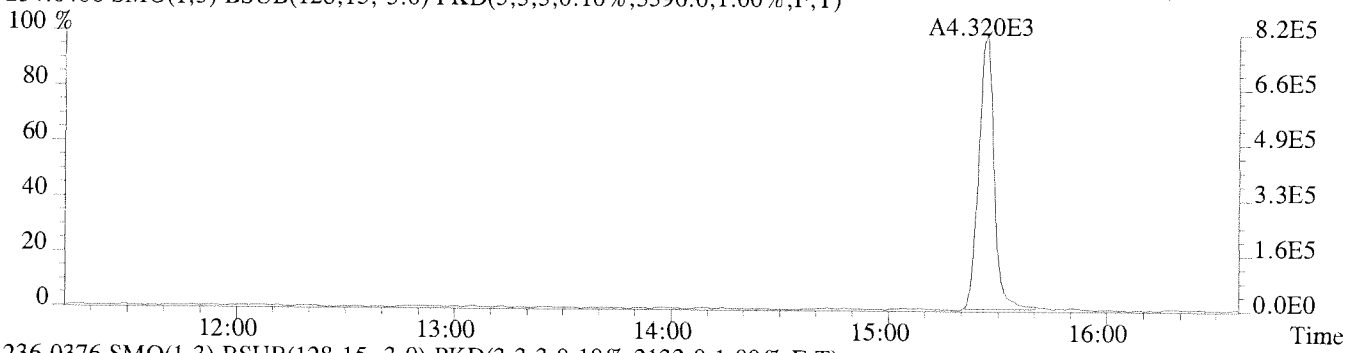
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2144.0,1.00%,F,T)



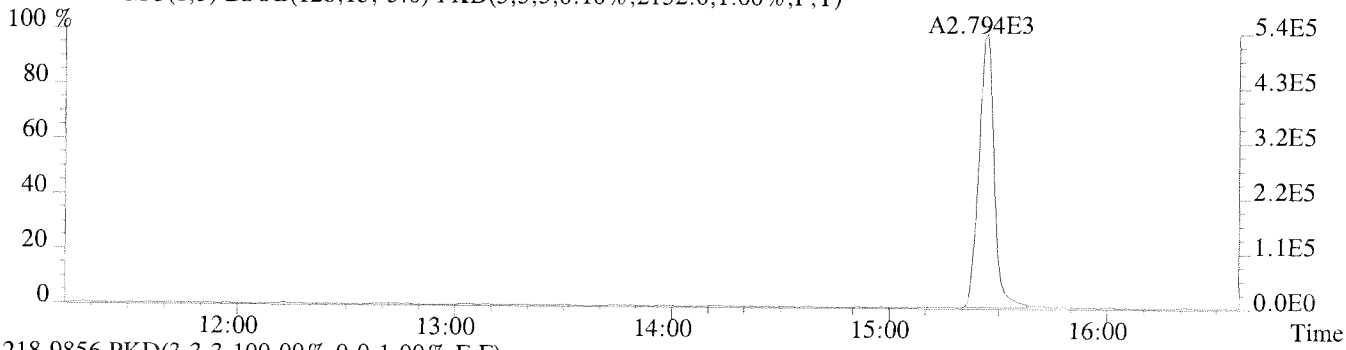
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9020.0,1.00%,F,T)



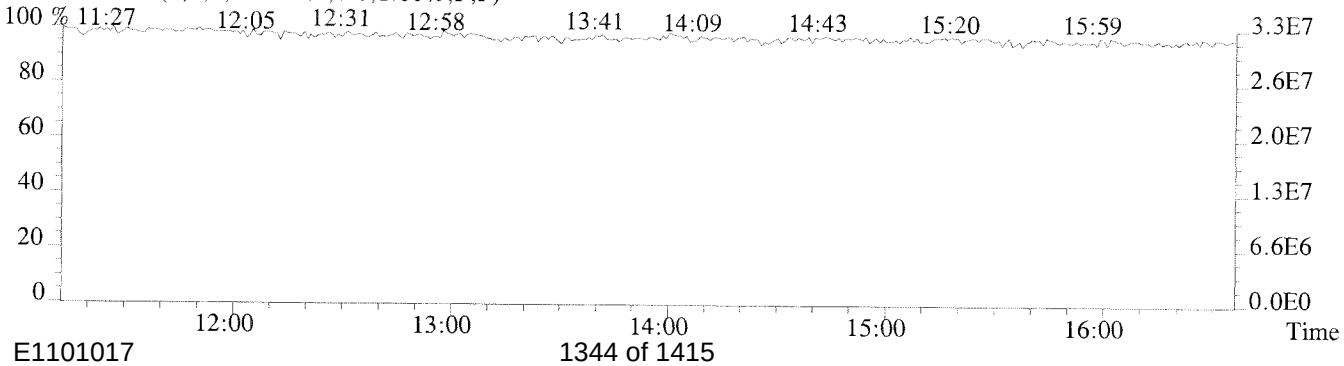
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5396.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2132.0,1.00%,F,T)

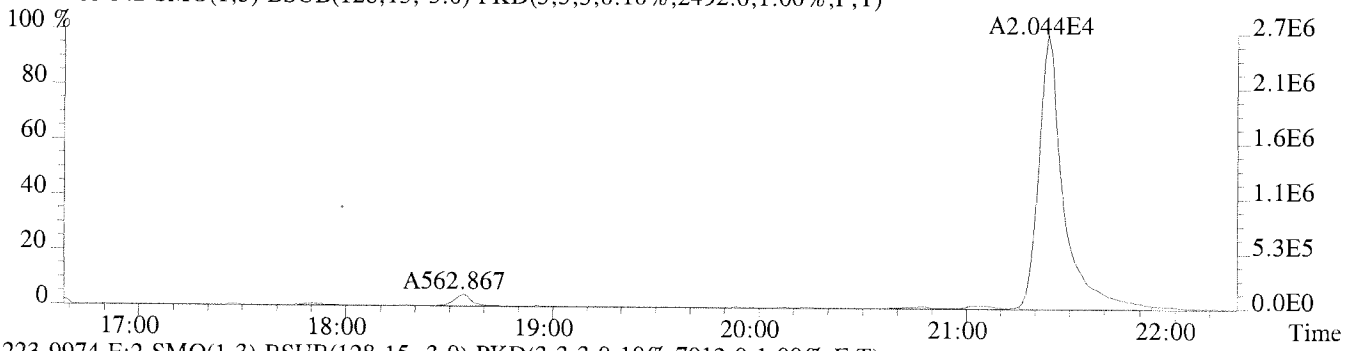


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

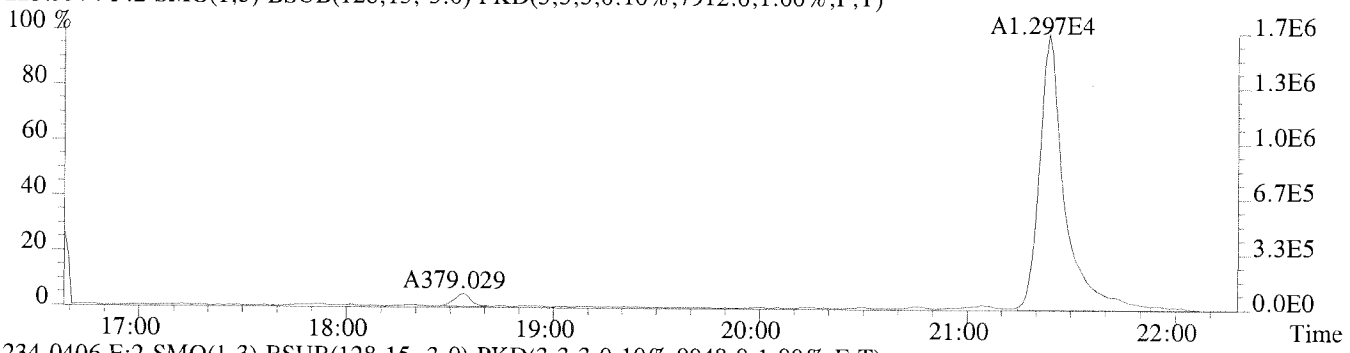


File:U139144 #1-313 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

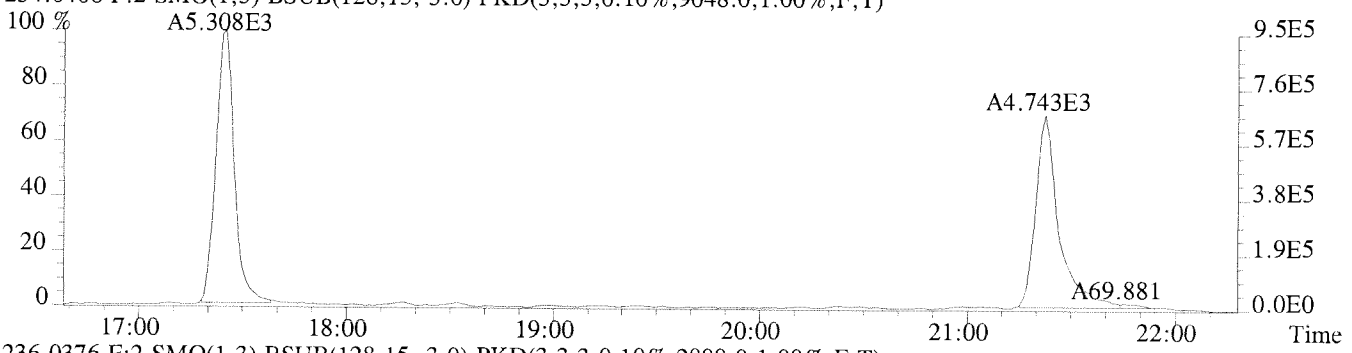
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2492.0,1.00%,F,T)



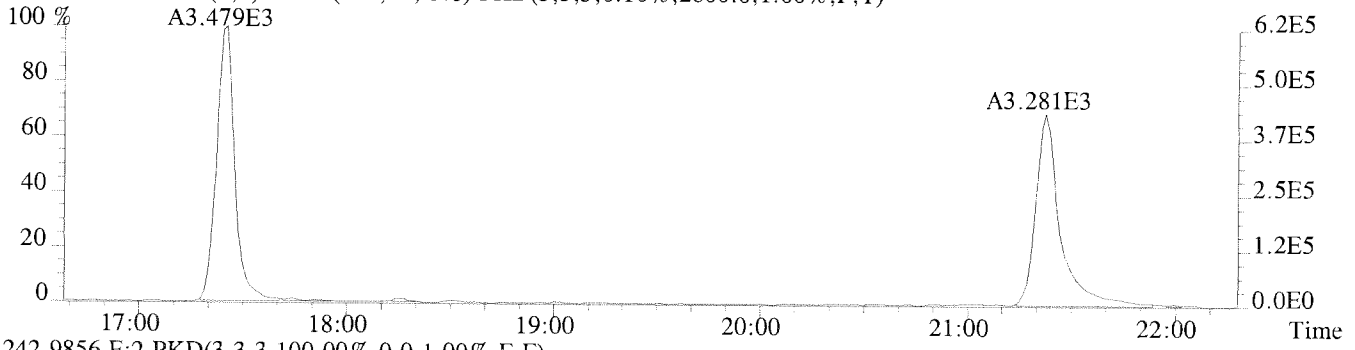
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7912.0,1.00%,F,T)



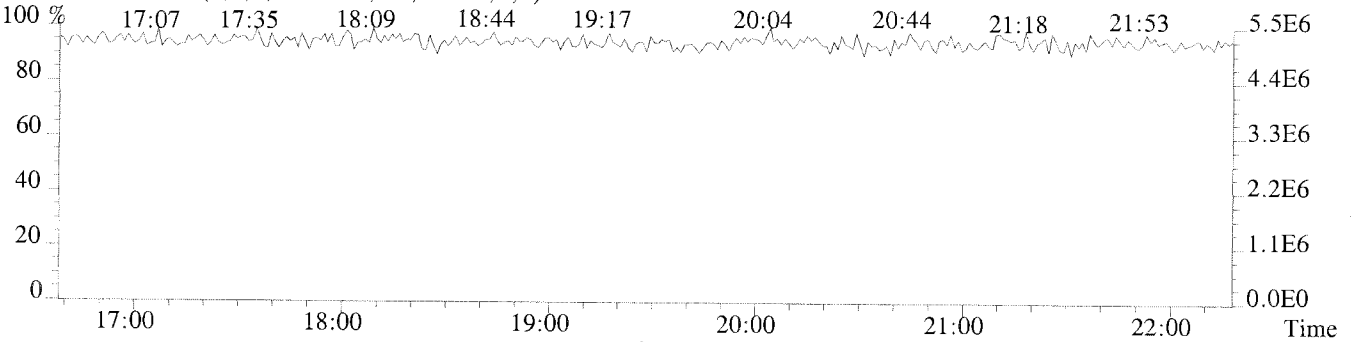
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9048.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2800.0,1.00%,F,T)

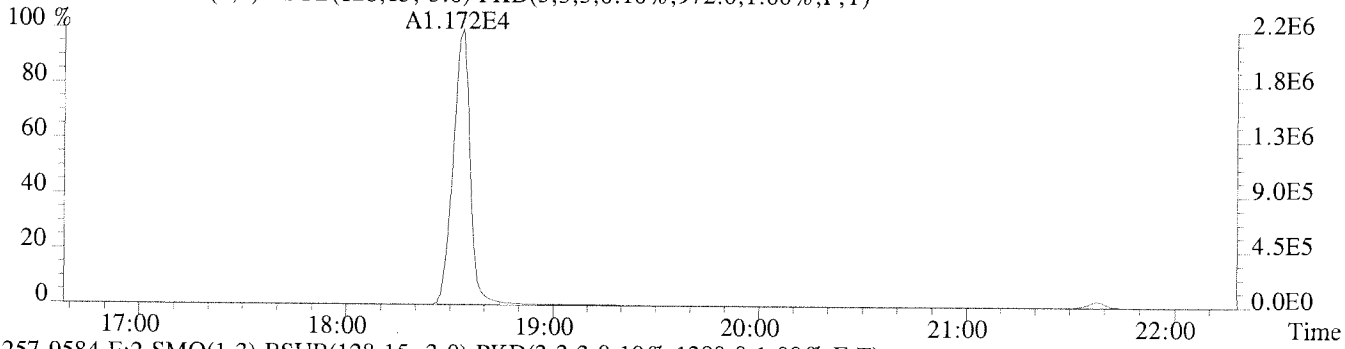


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

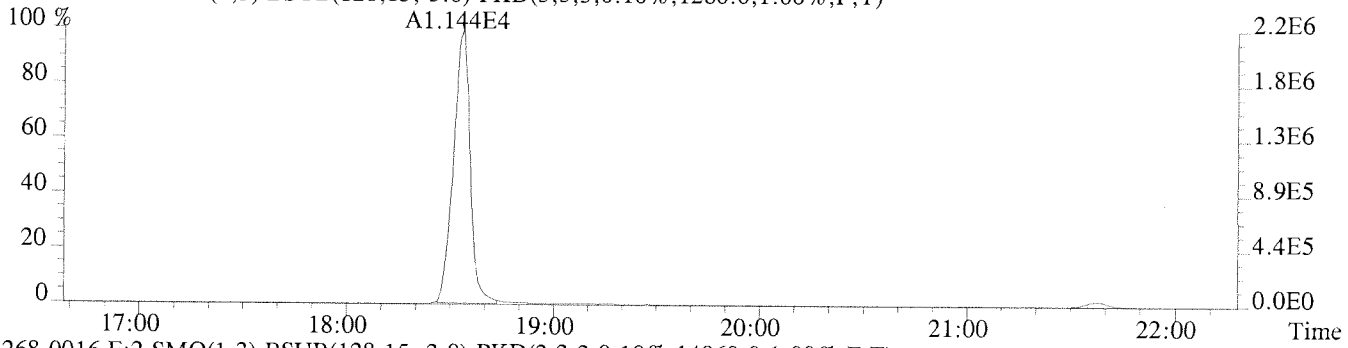


File:U139144 #1-313 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

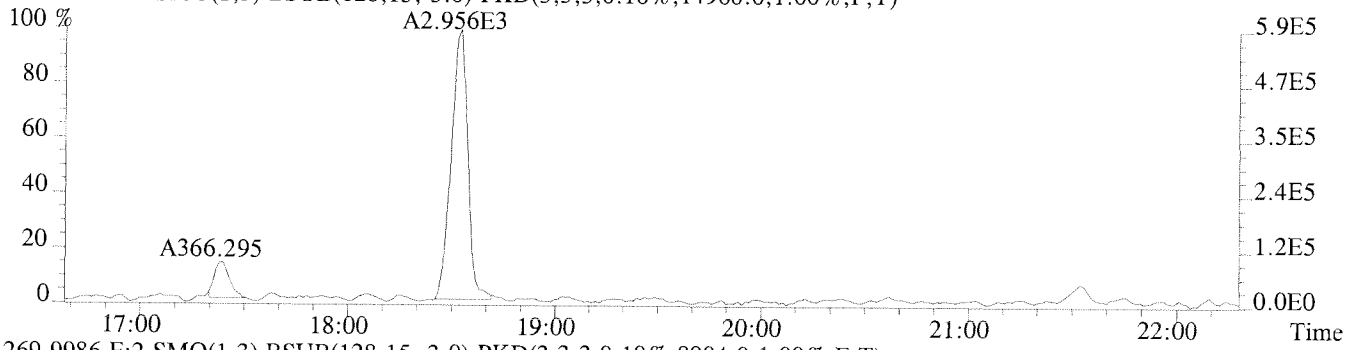
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)



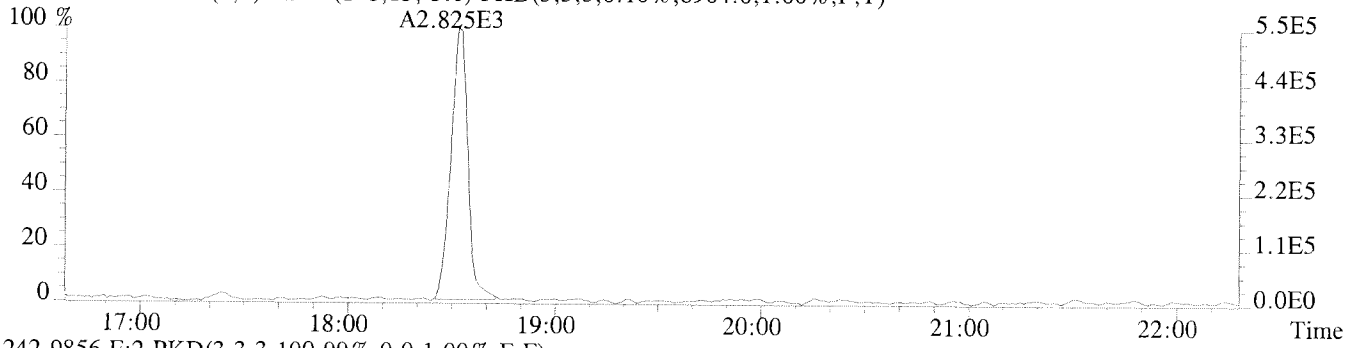
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1280.0,1.00%,F,T)



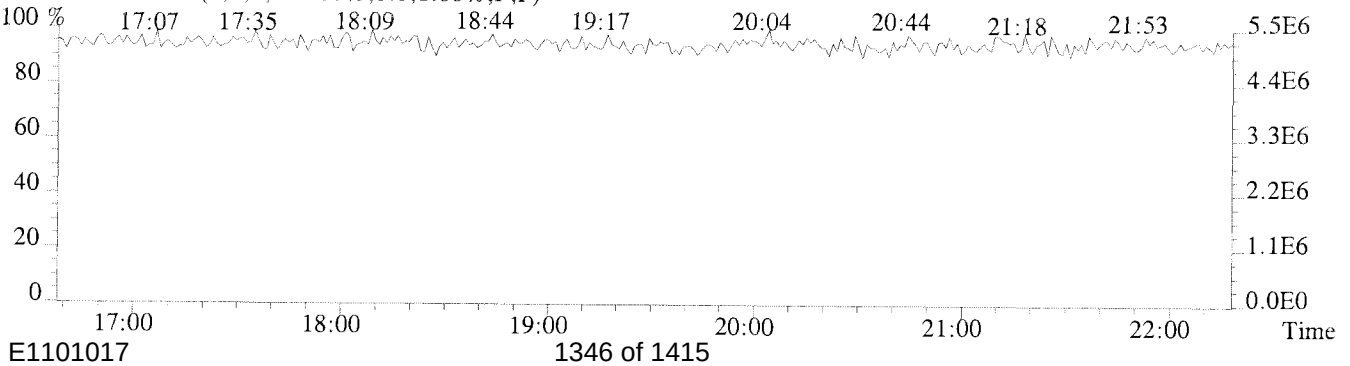
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,14960.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8904.0,1.00%,F,T)

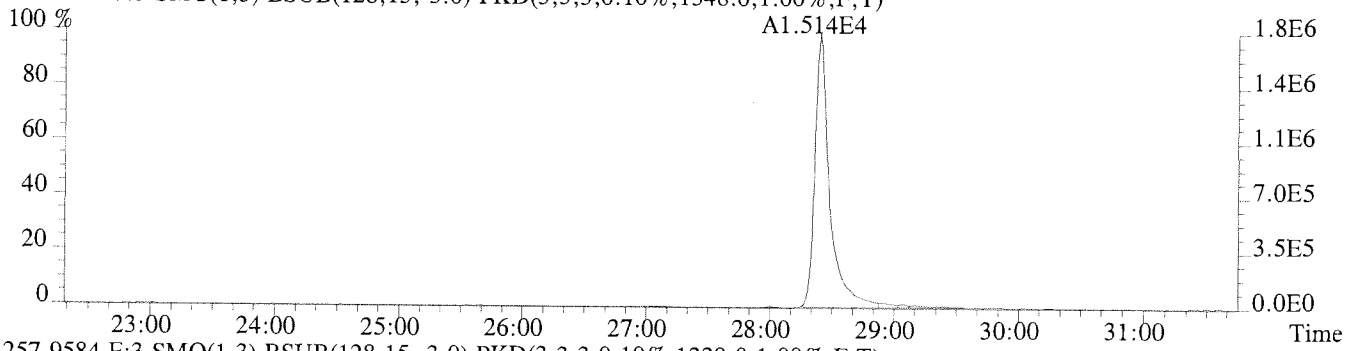


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

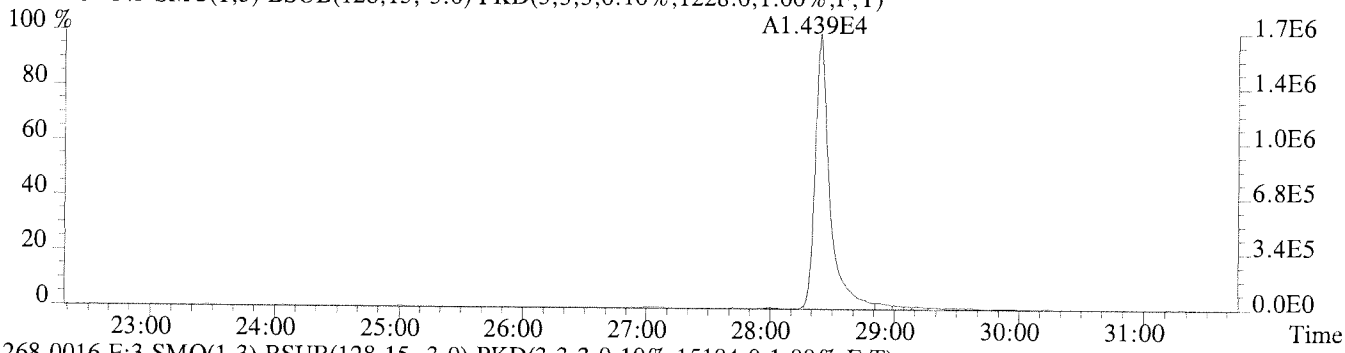


File:U139144 #1-604 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

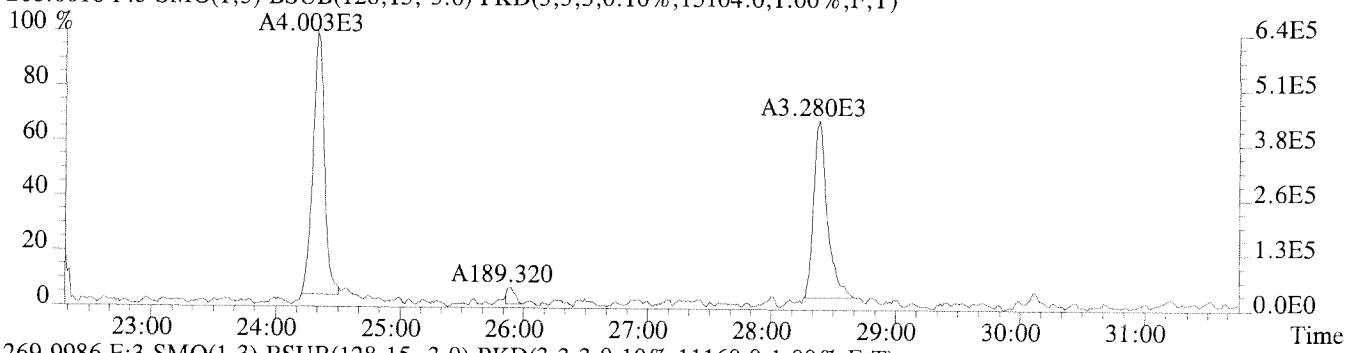
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1348.0,1.00%,F,T)



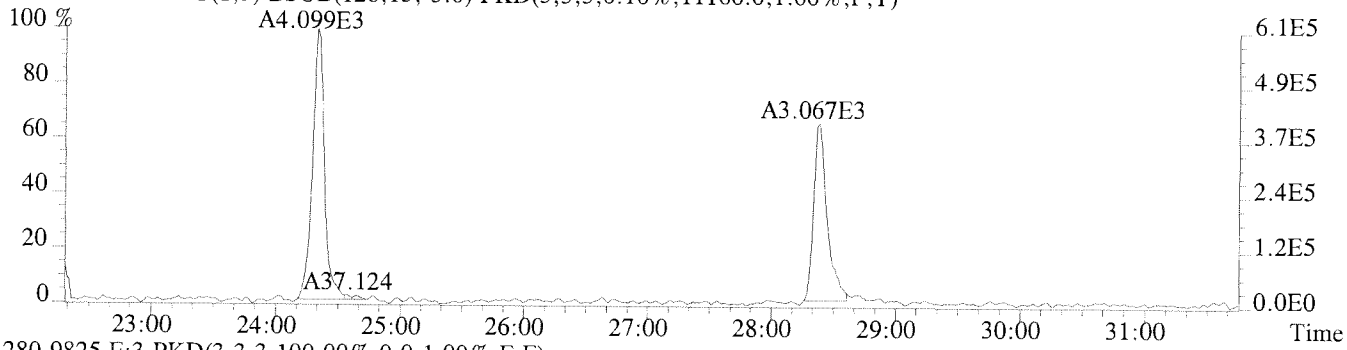
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1228.0,1.00%,F,T)



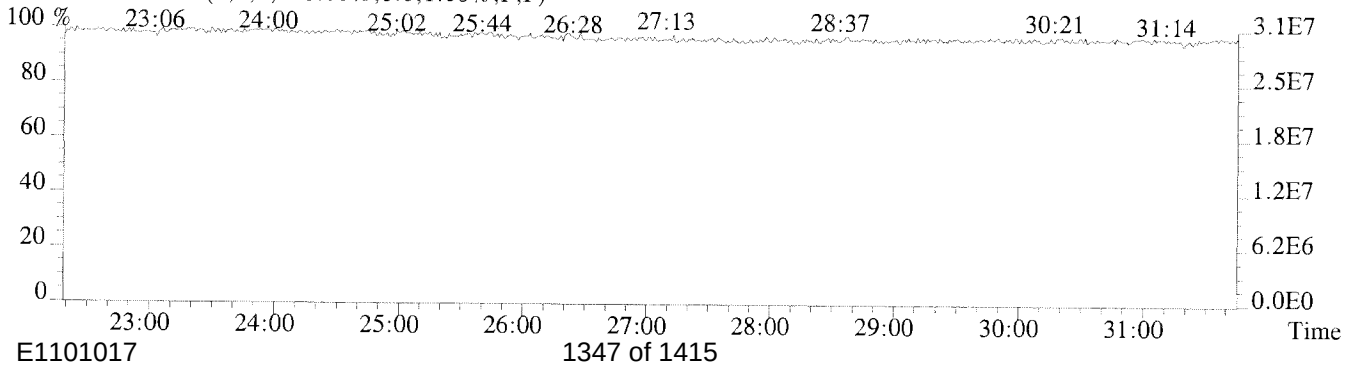
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,15104.0,1.00%,F,T)



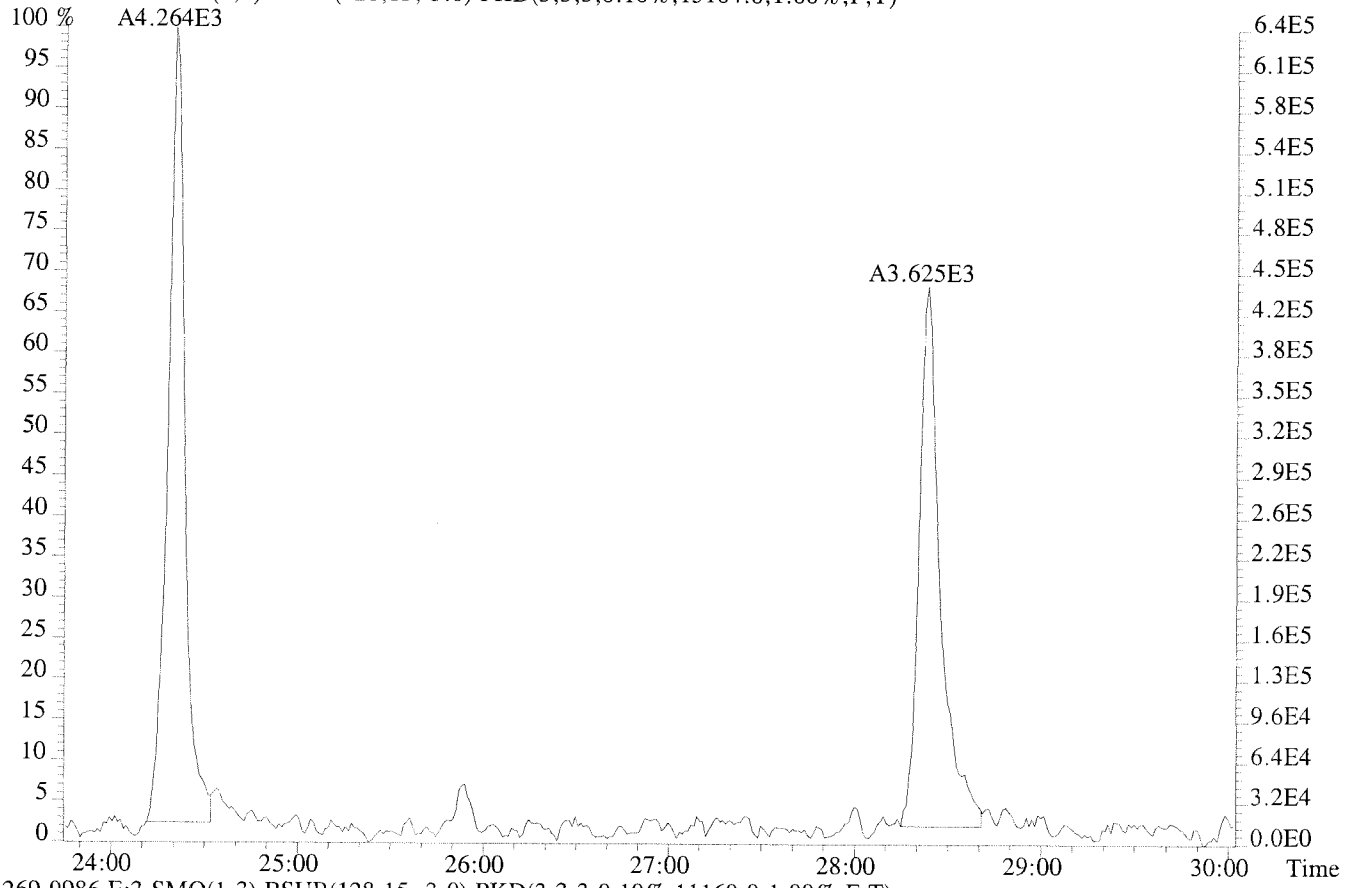
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11160.0,1.00%,F,T)



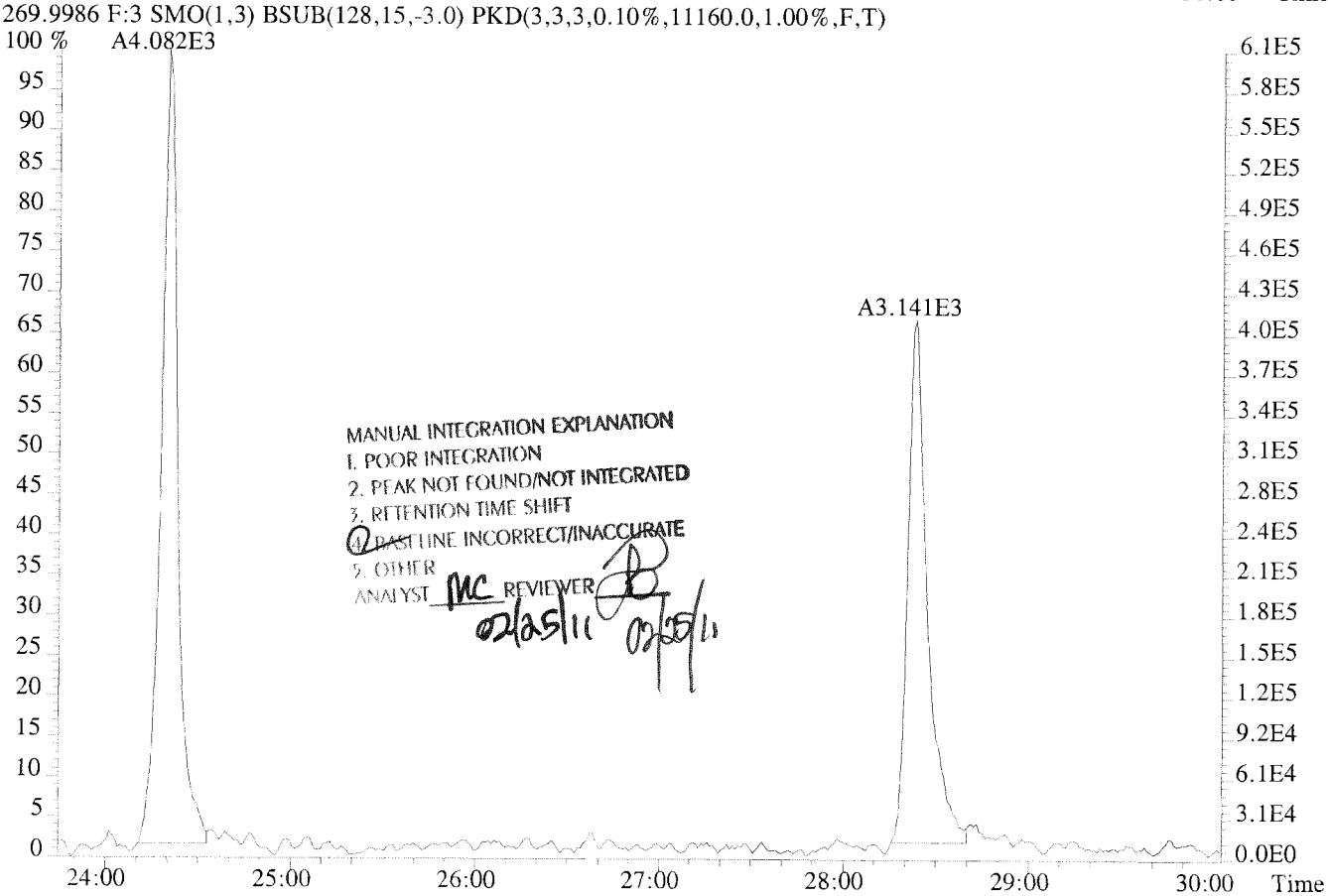
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139144 #1-604 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,15104.0,1.00%,F,T)



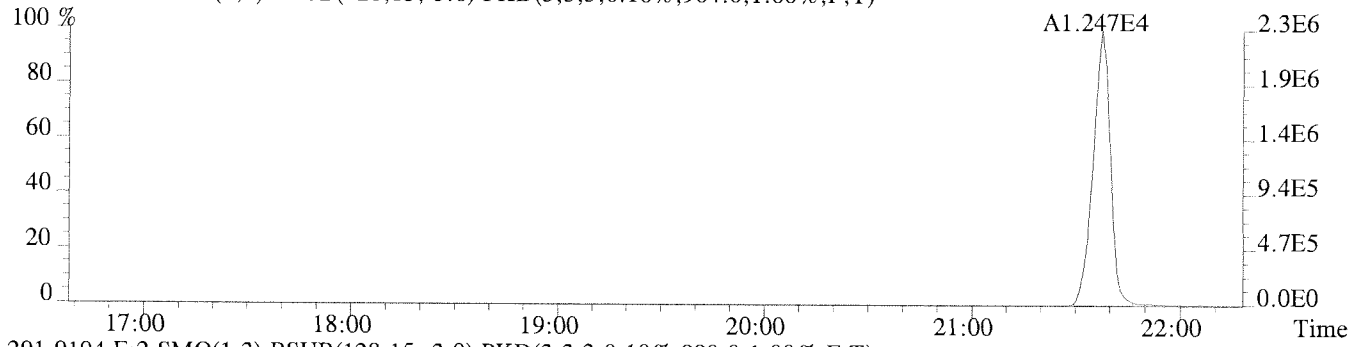
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11160.0,1.00%,F,T)



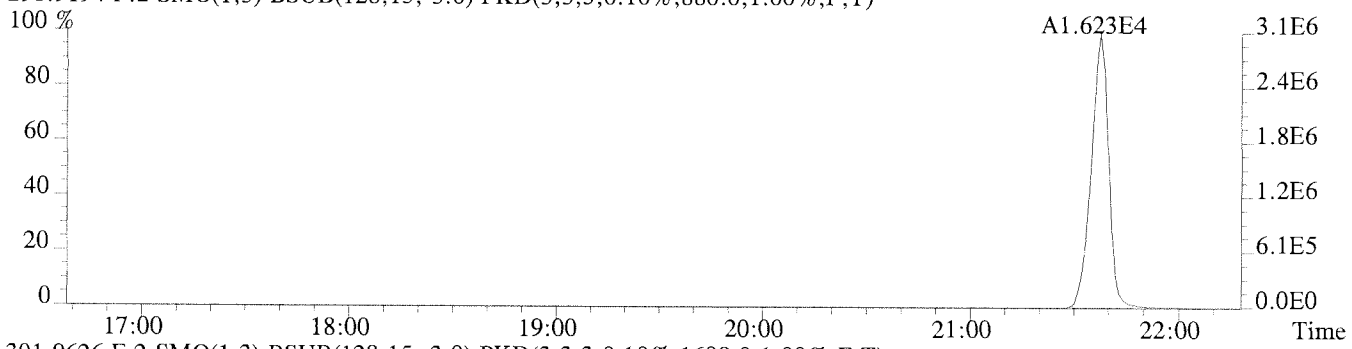
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/25/11 02/25/11

File:U139144 #1-313 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

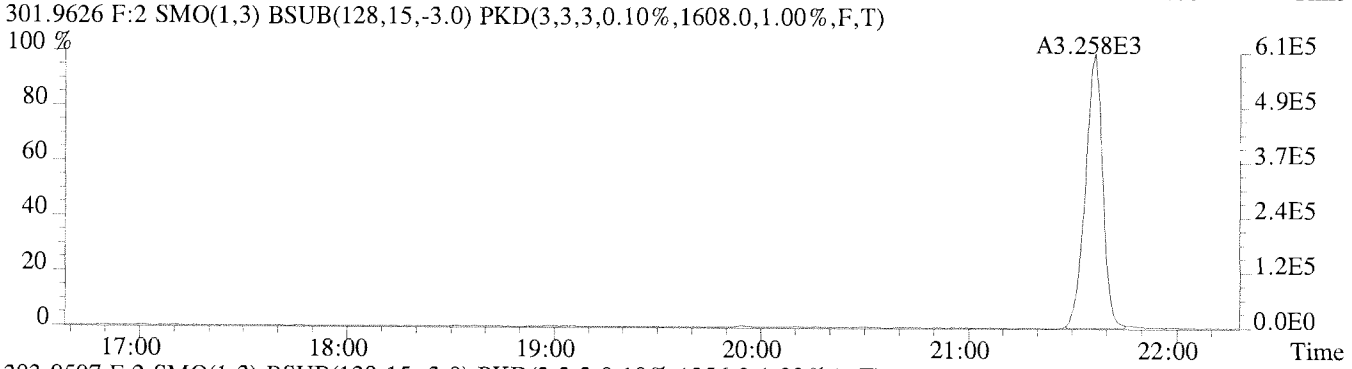
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



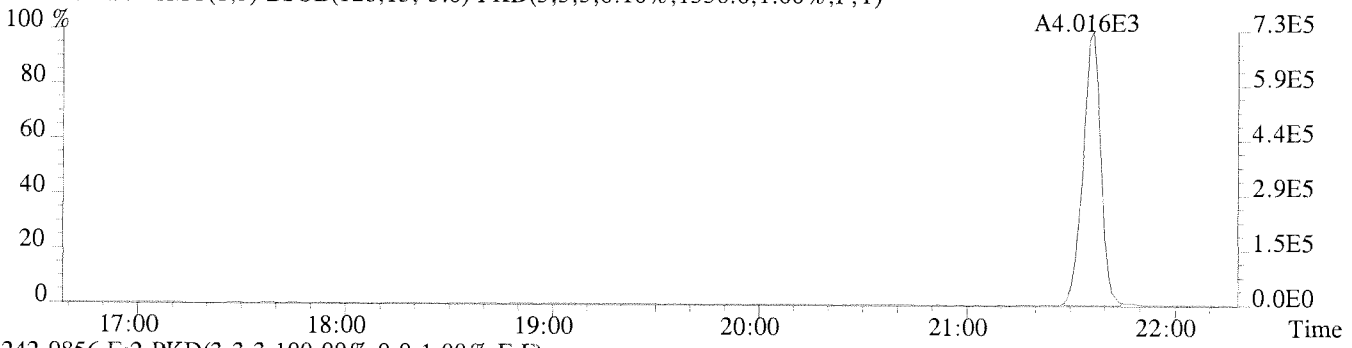
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,880.0,1.00%,F,T)



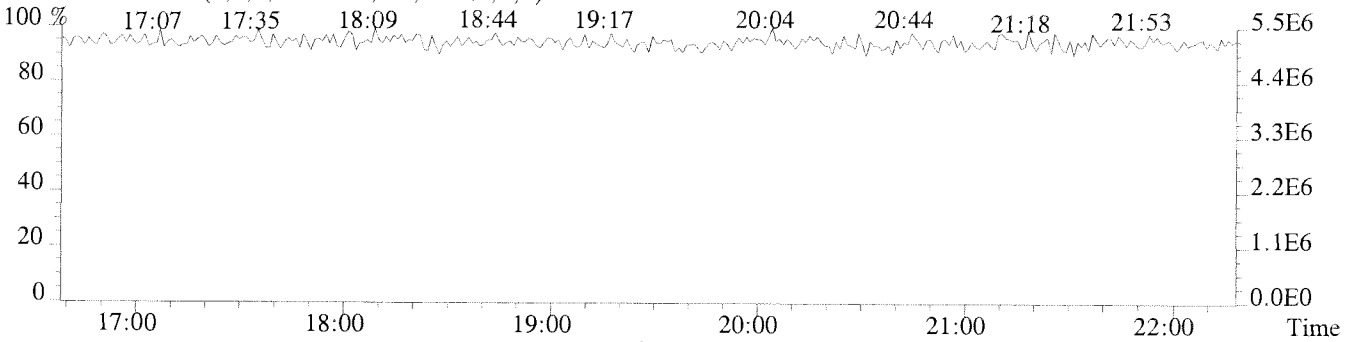
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1608.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1356.0,1.00%,F,T)

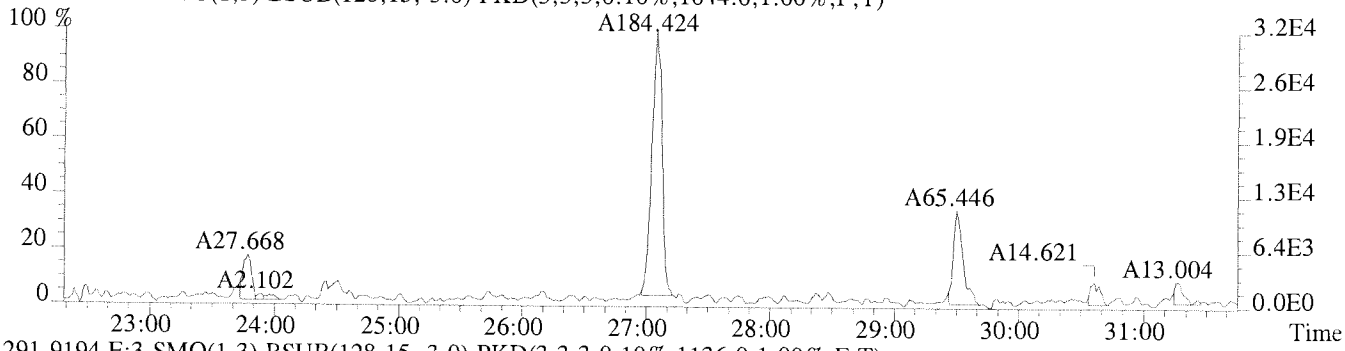


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

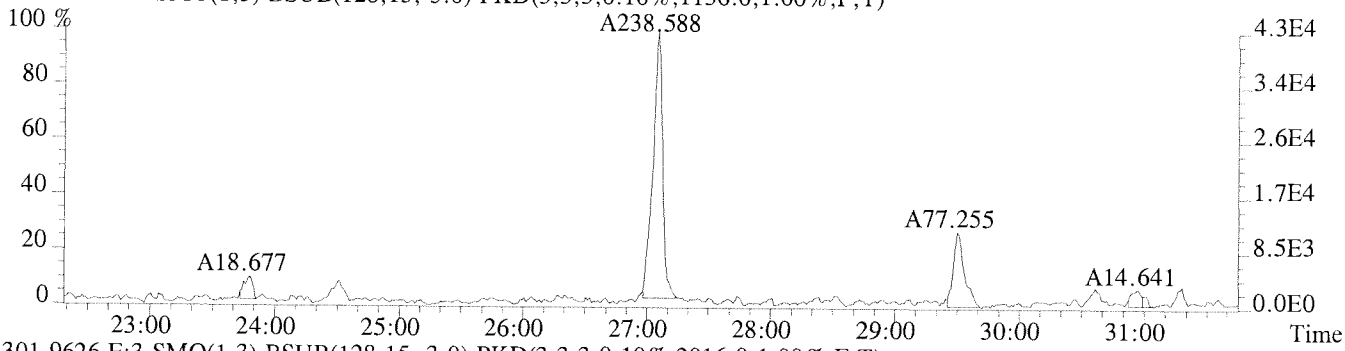


File:U139144 #1-604 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

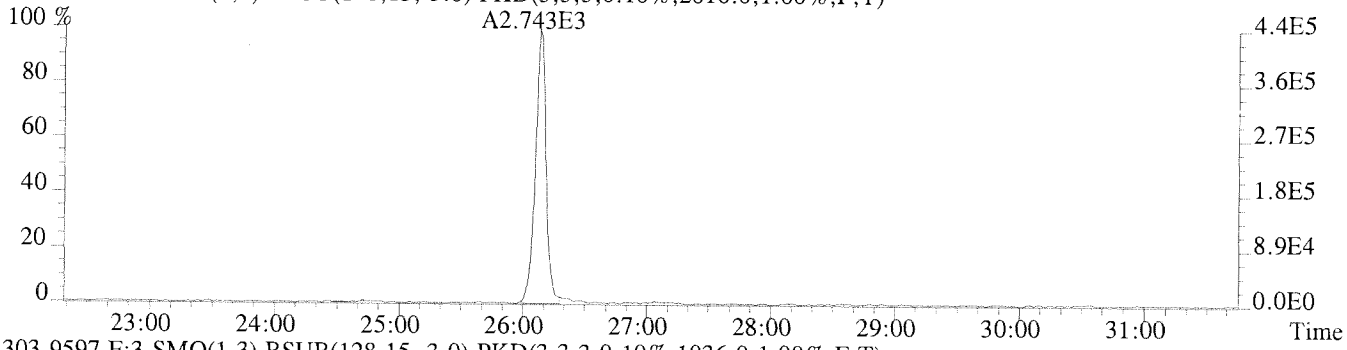
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1044.0,1.00%,F,T)



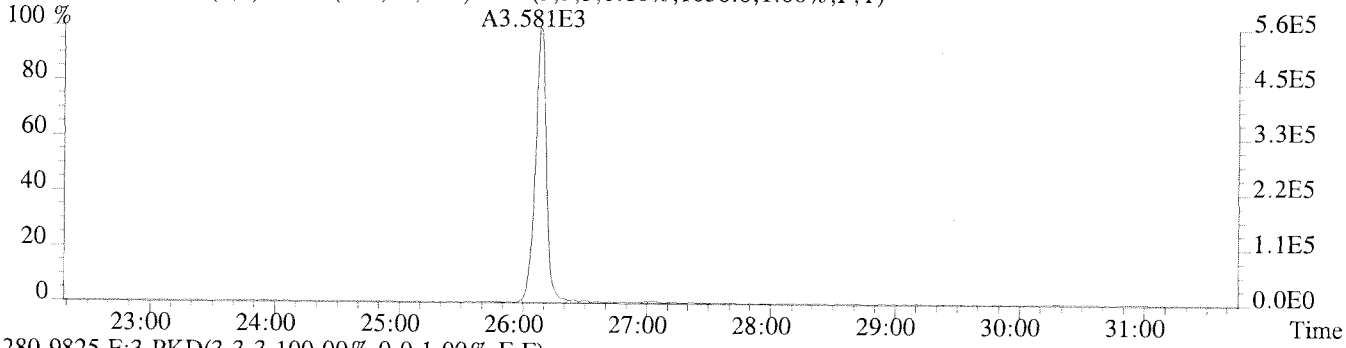
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1136.0,1.00%,F,T)



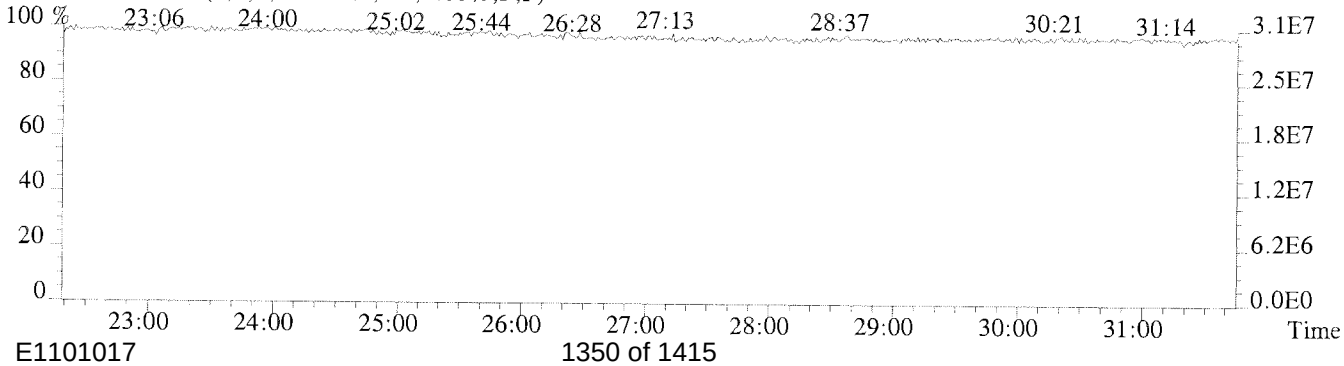
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2016.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1036.0,1.00%,F,T)

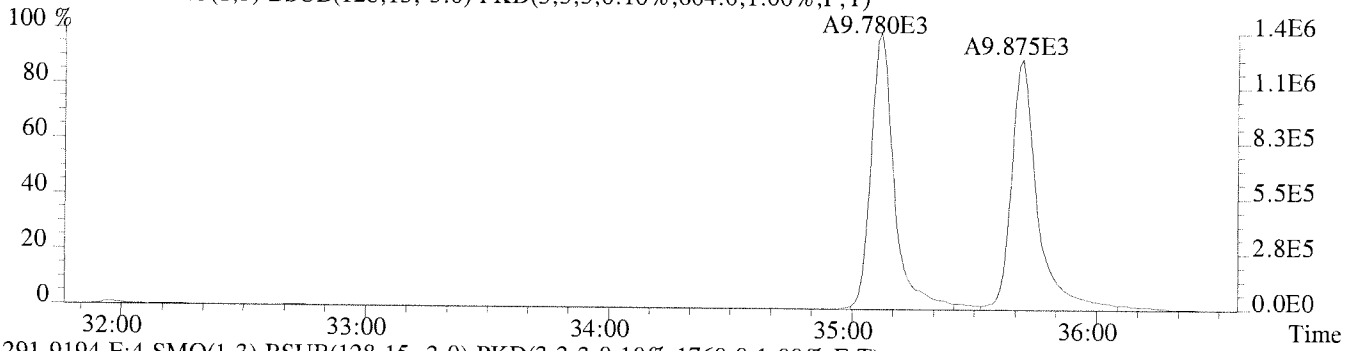


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

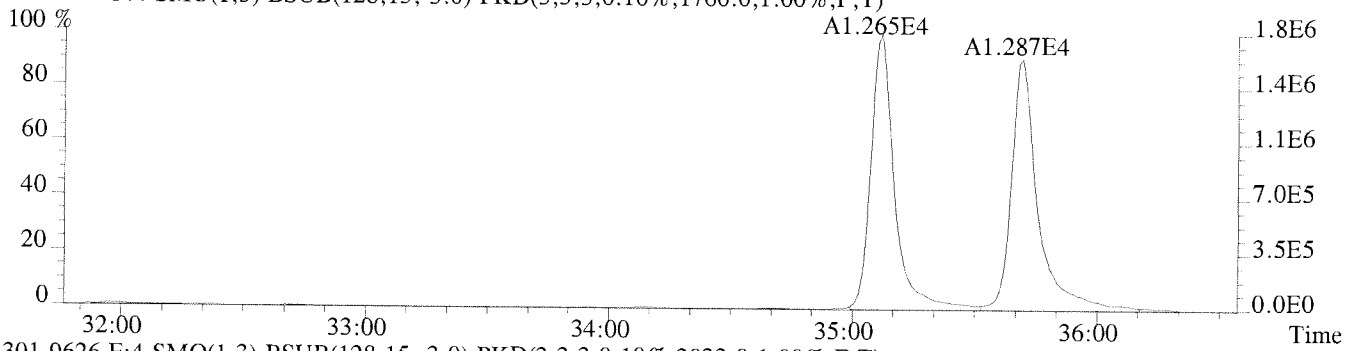


File:U139144 #1-308 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

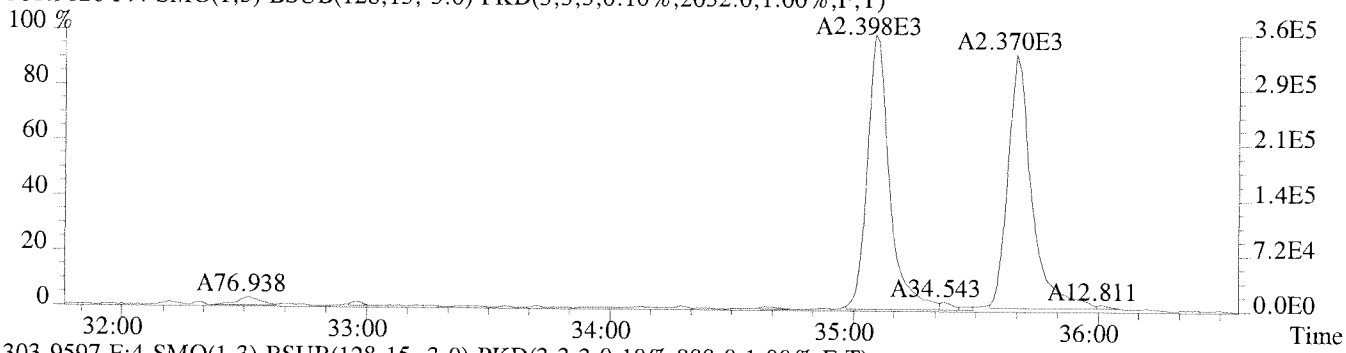
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,604.0,1.00%,F,T)



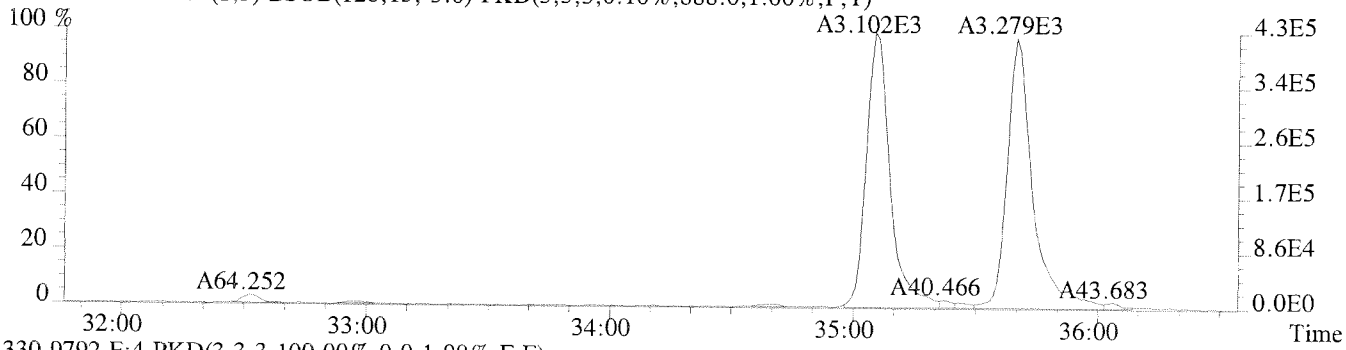
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1760.0,1.00%,F,T)



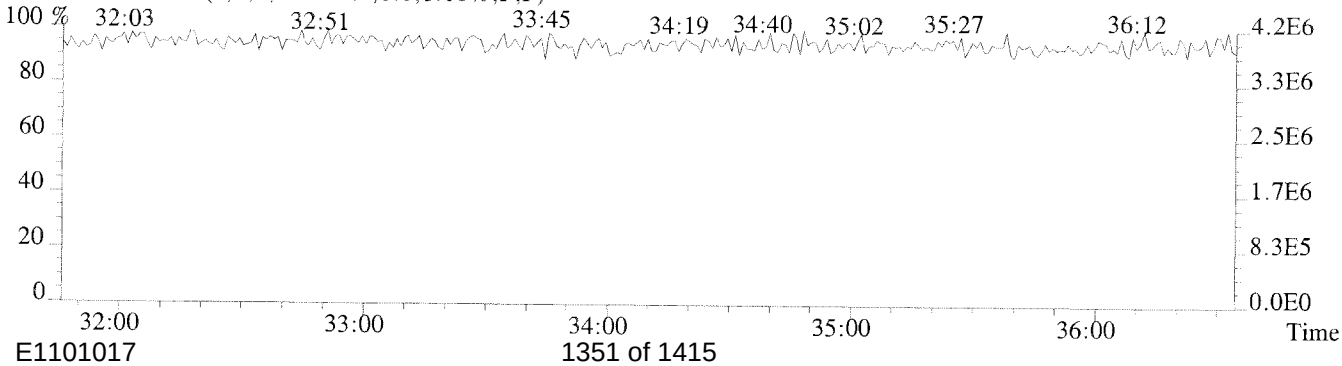
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2032.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,888.0,1.00%,F,T)

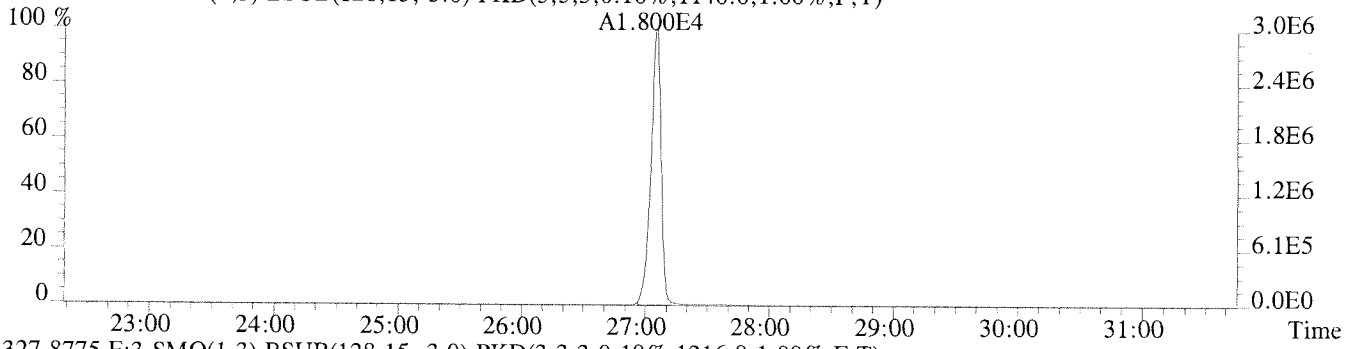


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

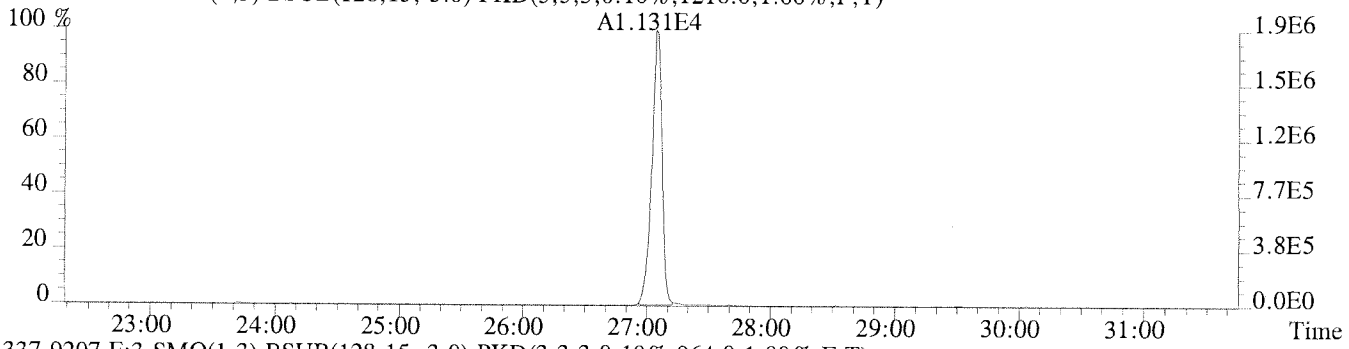


File:U139144 #1-604 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

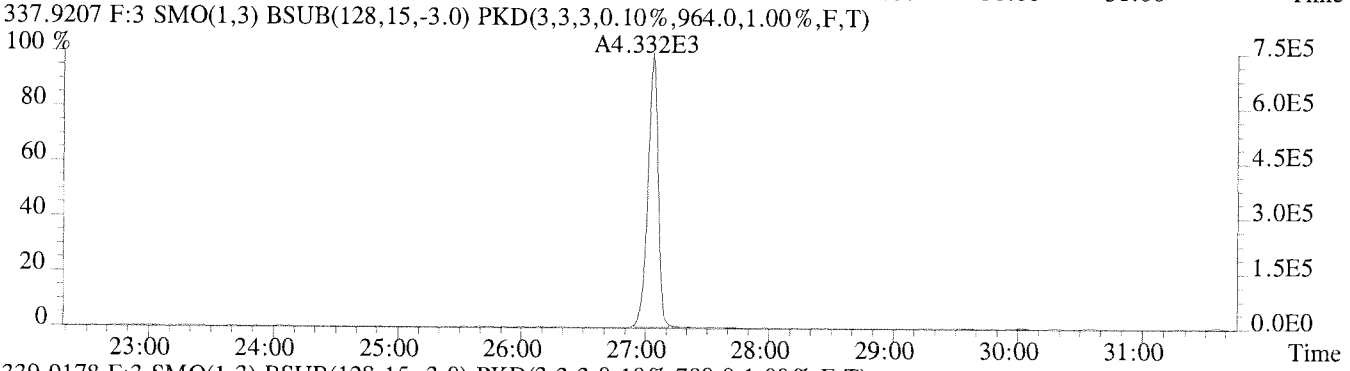
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1140.0,1.00%,F,T)



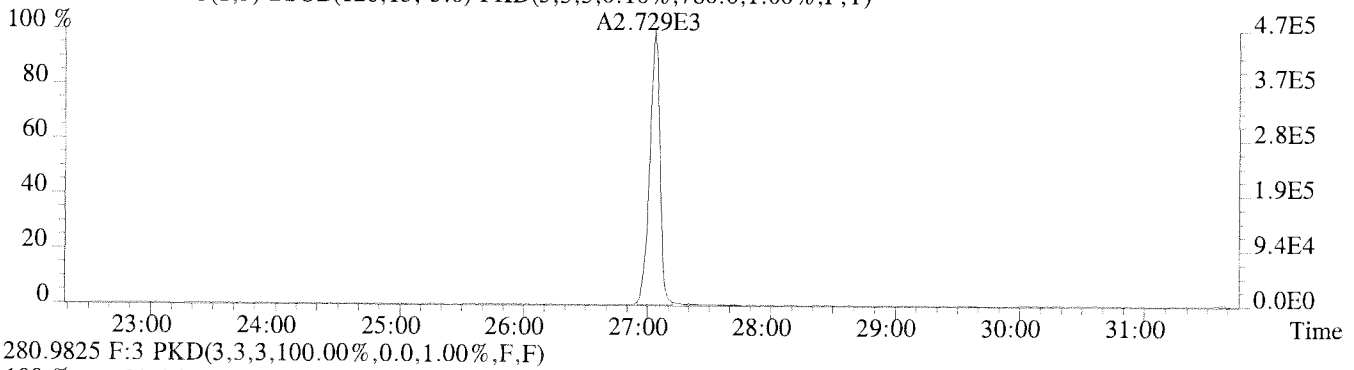
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1216.0,1.00%,F,T)



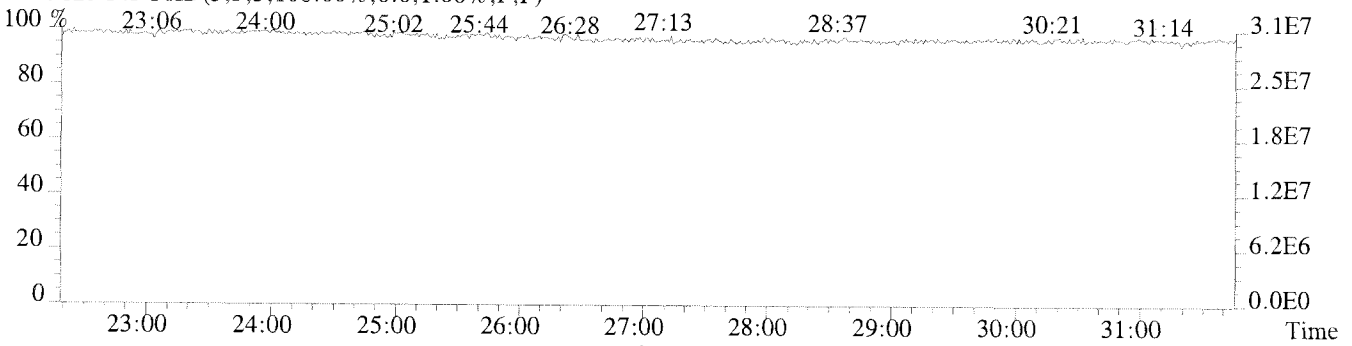
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,780.0,1.00%,F,T)

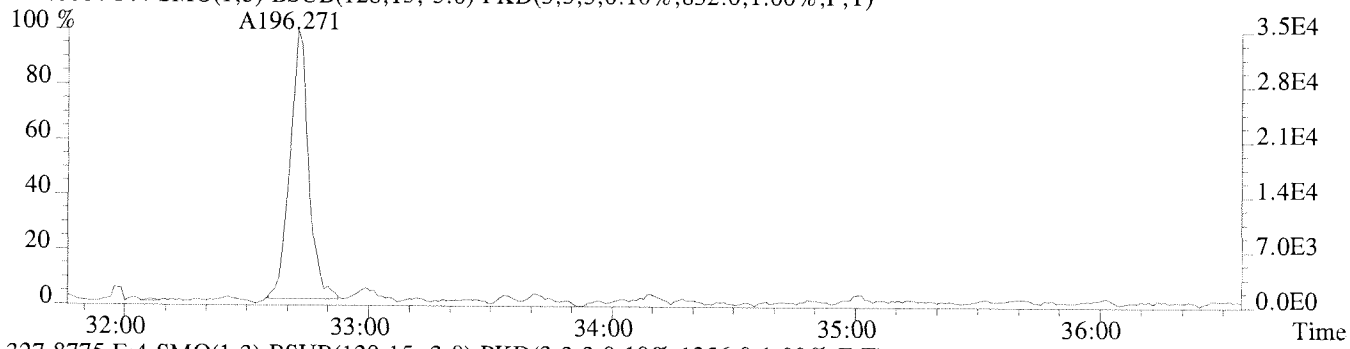


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

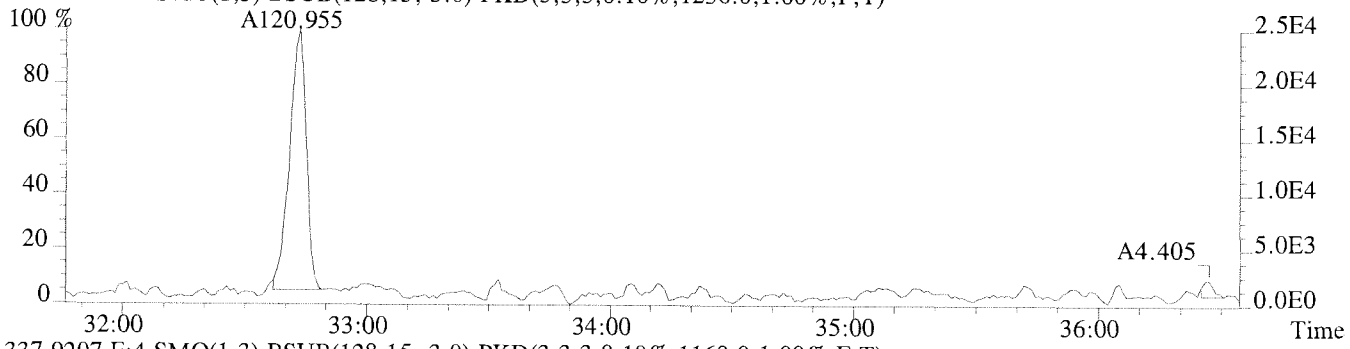


File:U139144 #1-308 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

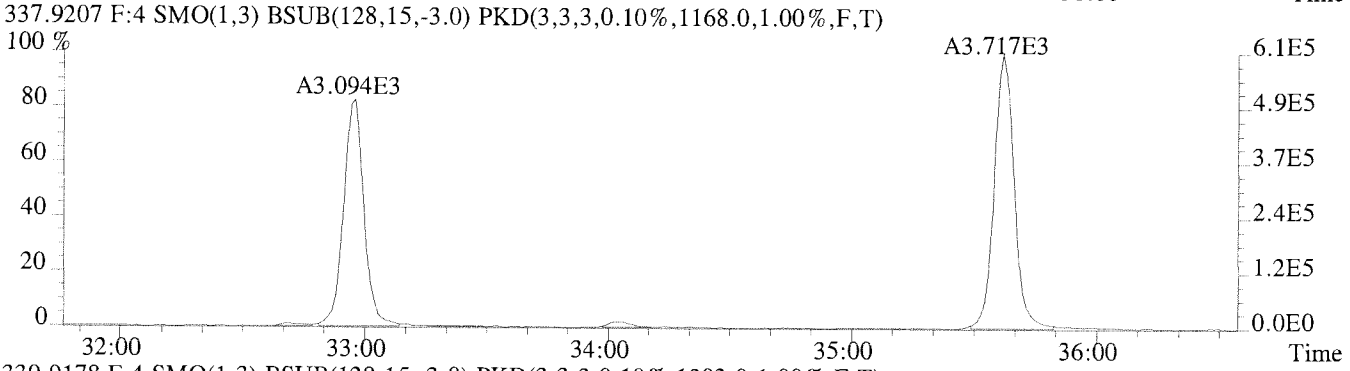
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,852.0,1.00%,F,T)



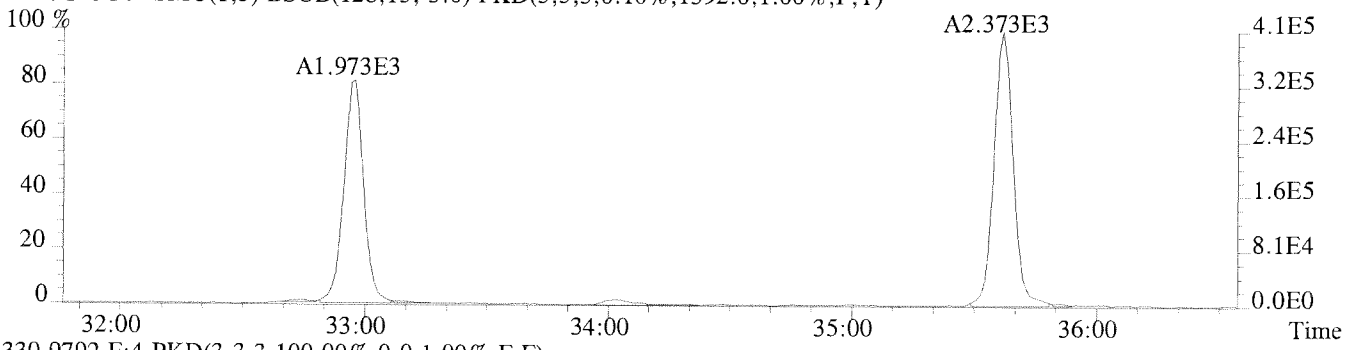
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1256.0,1.00%,F,T)



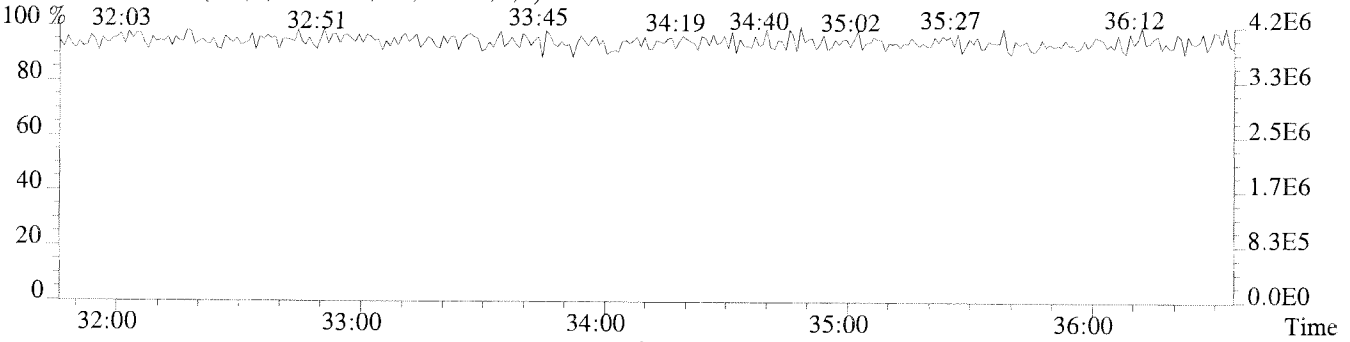
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1168.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1392.0,1.00%,F,T)

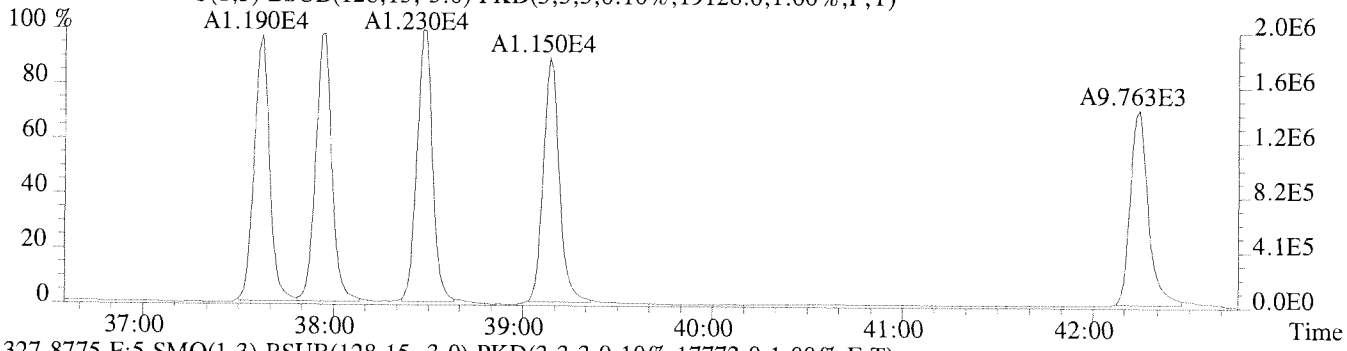


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

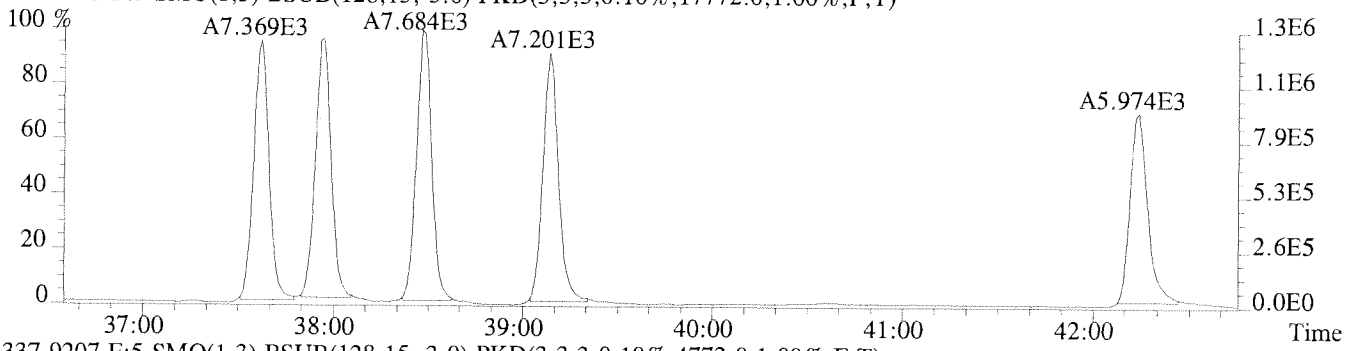


File:U139144 #1-395 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

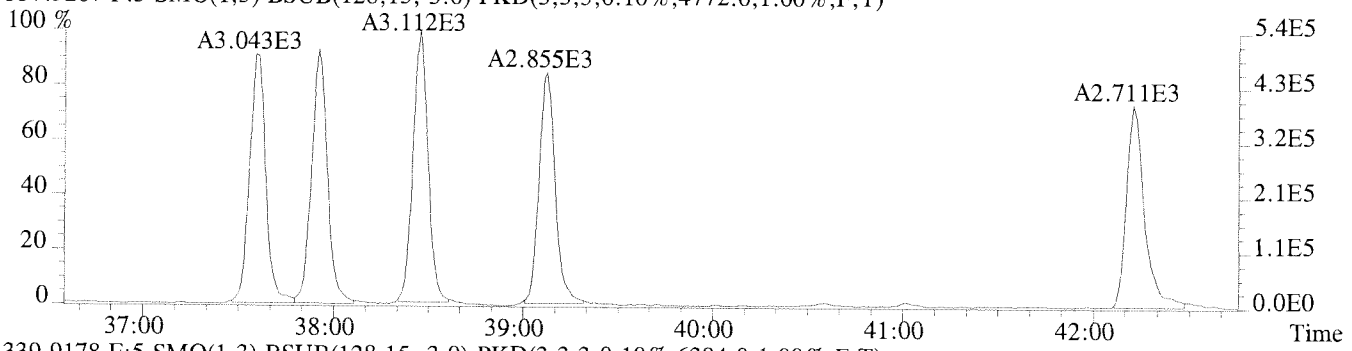
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,19128.0,1.00%,F,T)



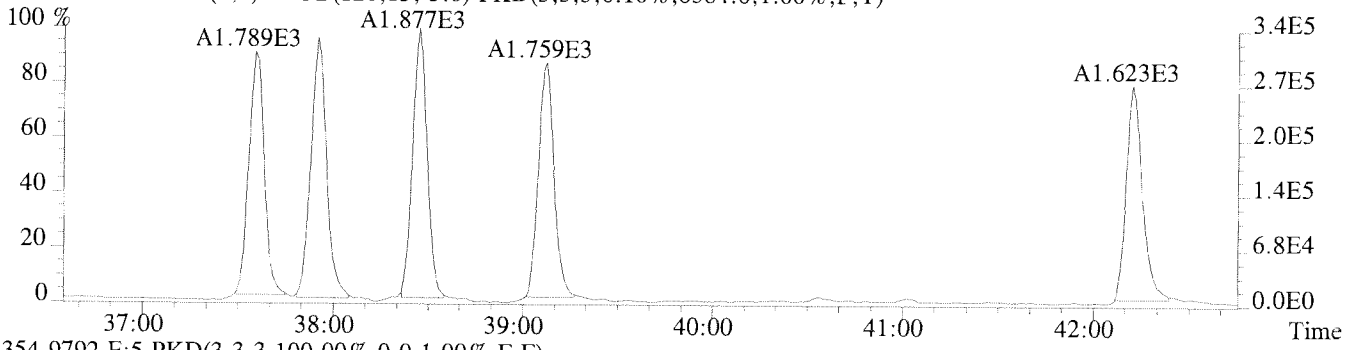
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17772.0,1.00%,F,T)



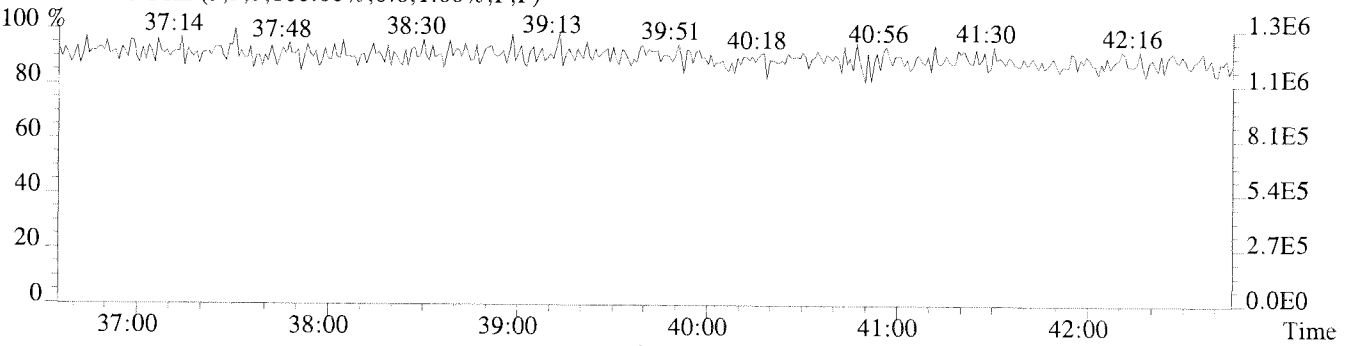
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4772.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6384.0,1.00%,F,T)

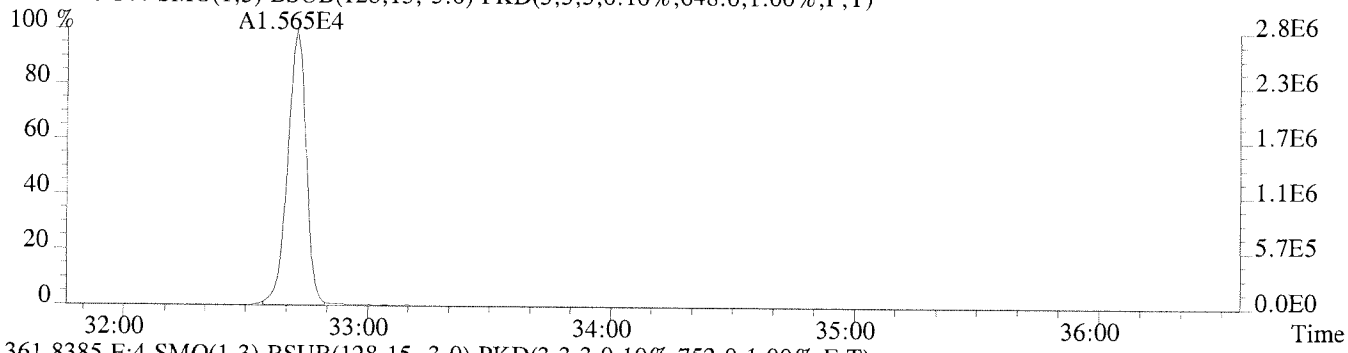


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

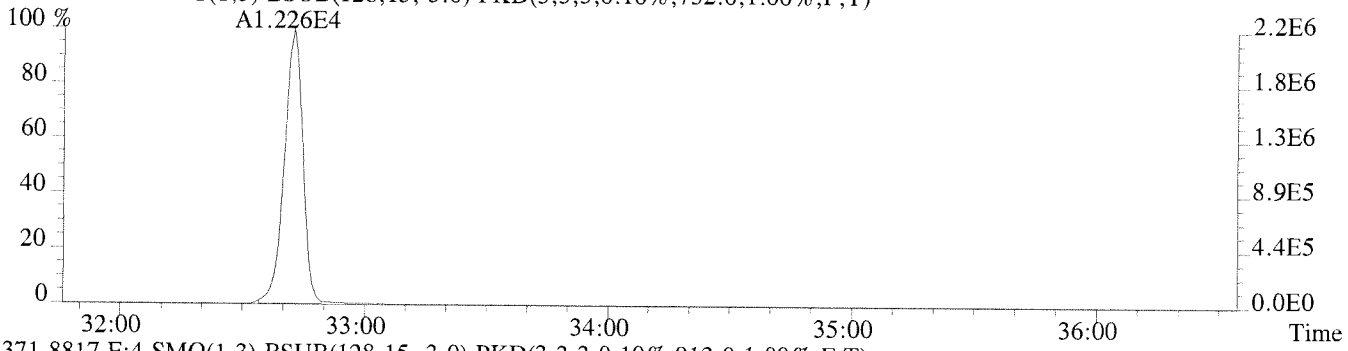


File:U139144 #1-308 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

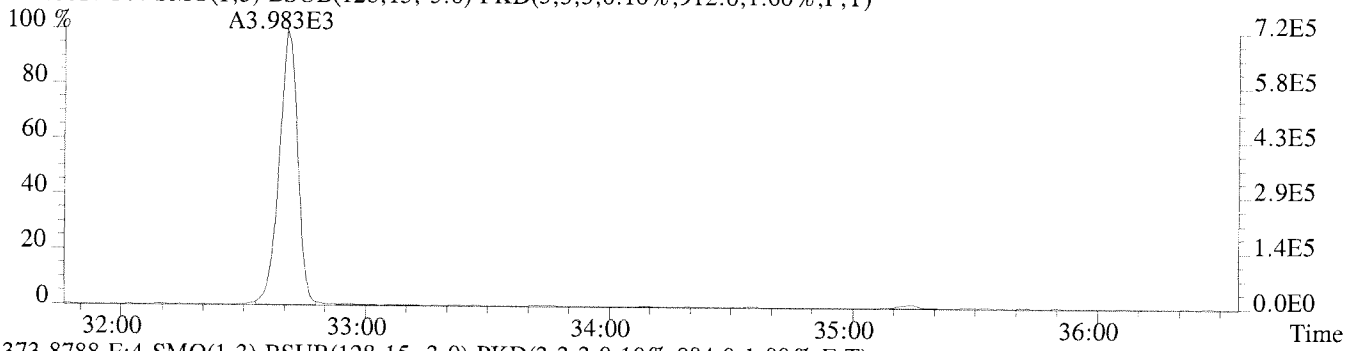
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,648.0,1.00%,F,T)



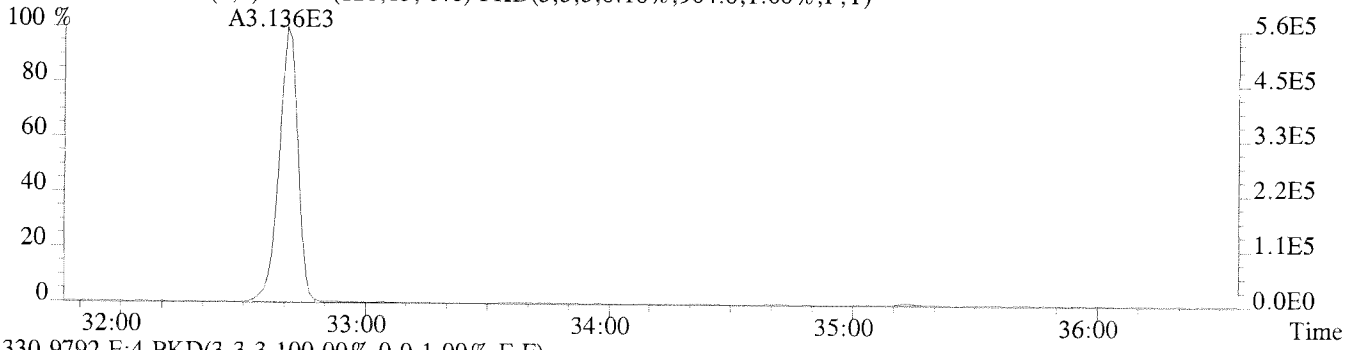
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)



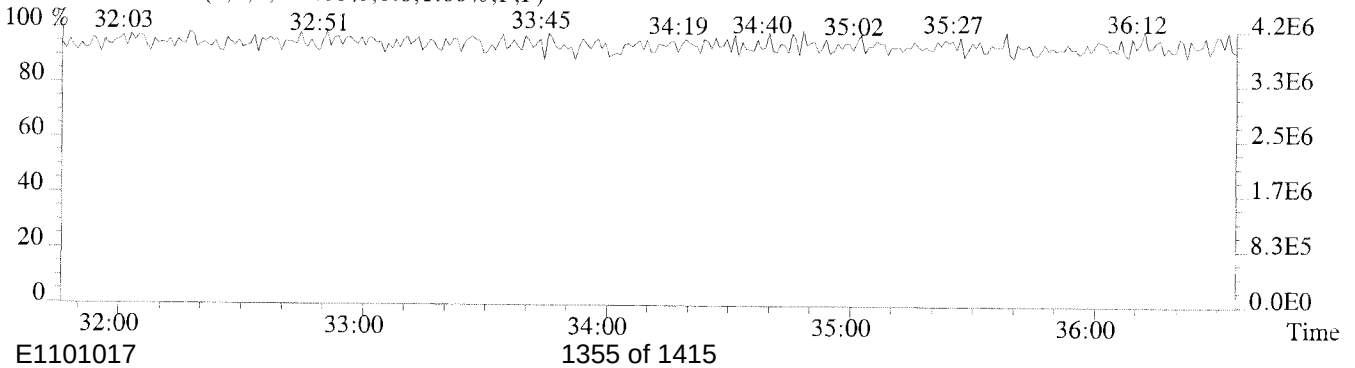
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,912.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)

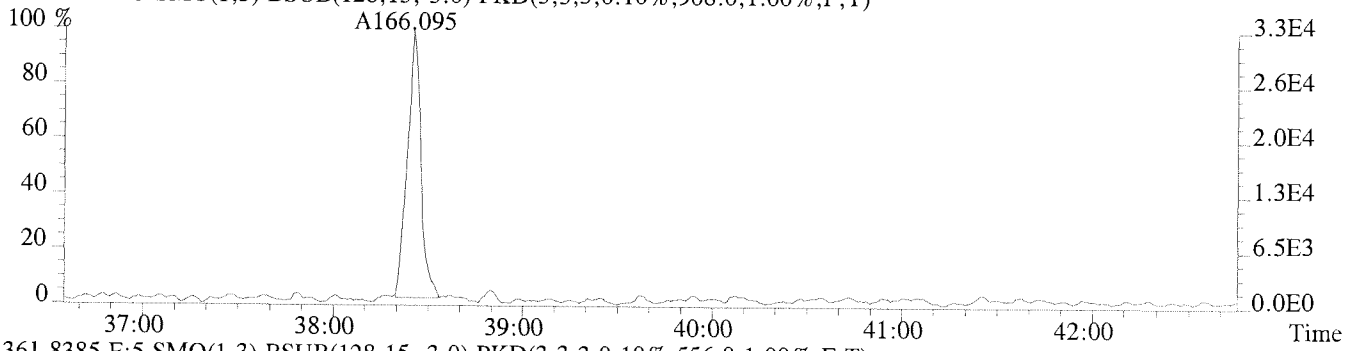


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

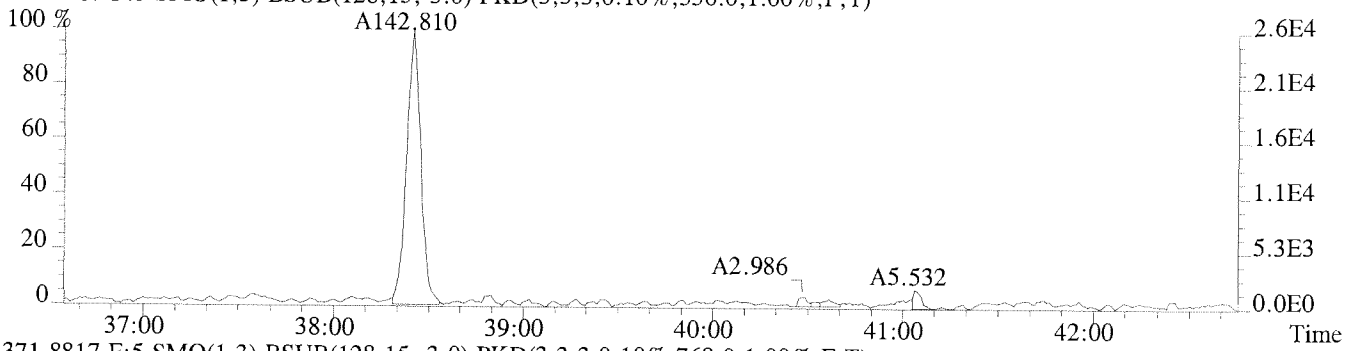


File:U139144 #1-395 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

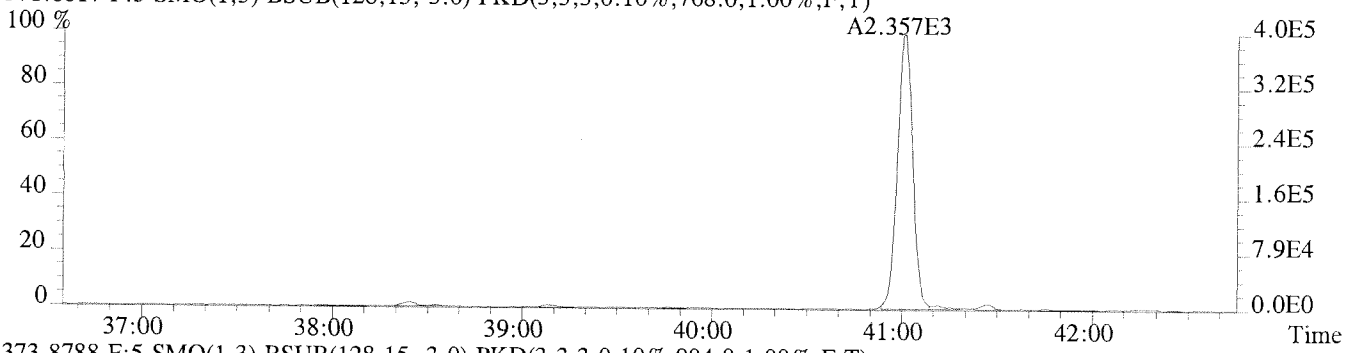
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,908.0,1.00%,F,T)



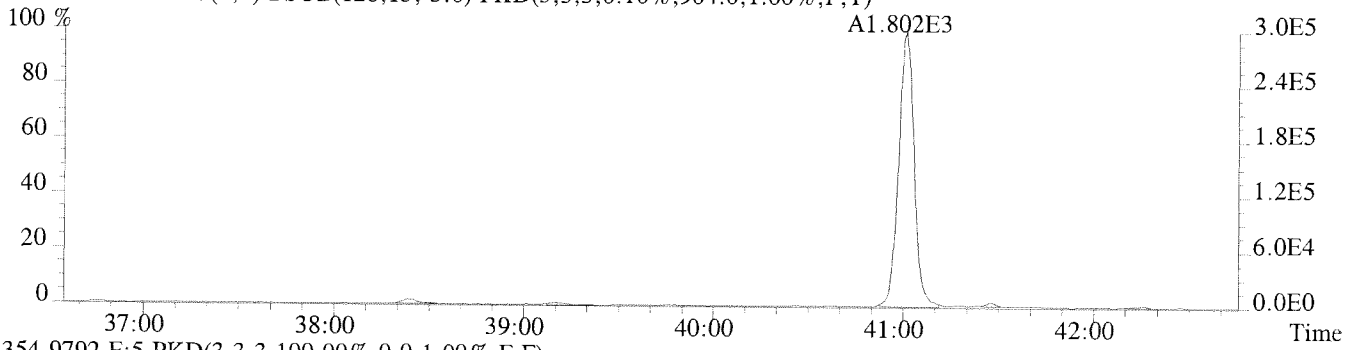
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,556.0,1.00%,F,T)



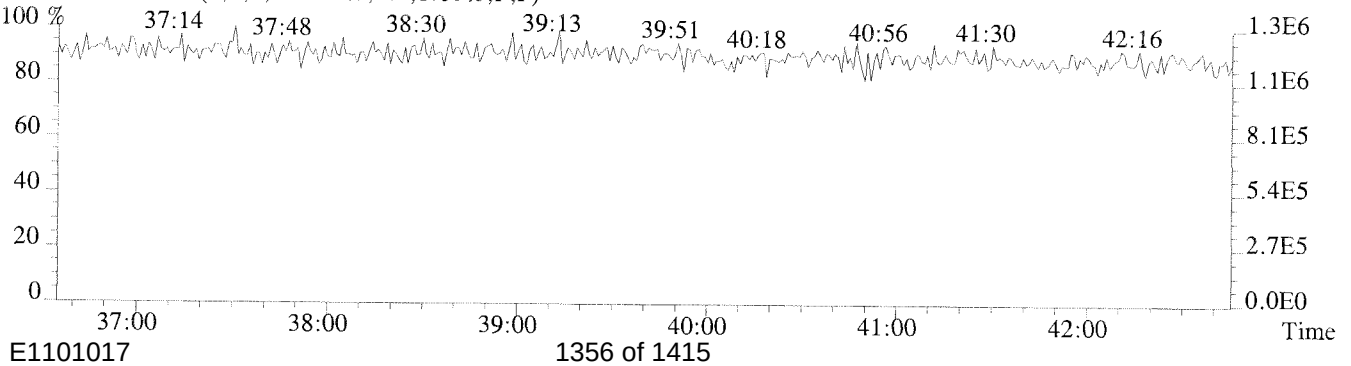
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,768.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)

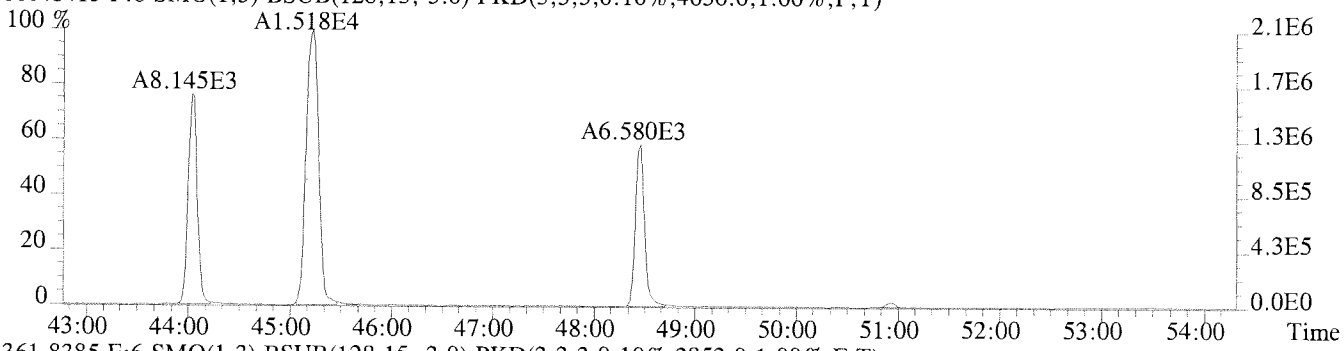


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

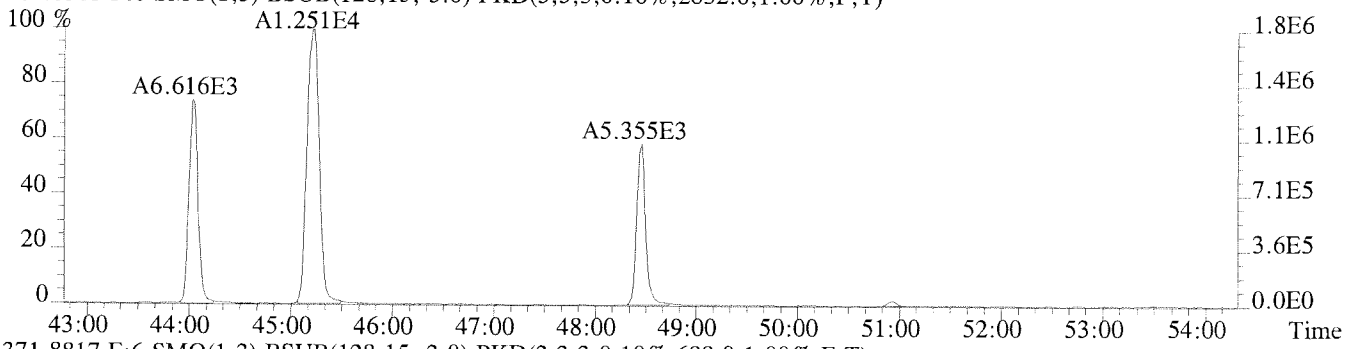


File:U139144 #1-572 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

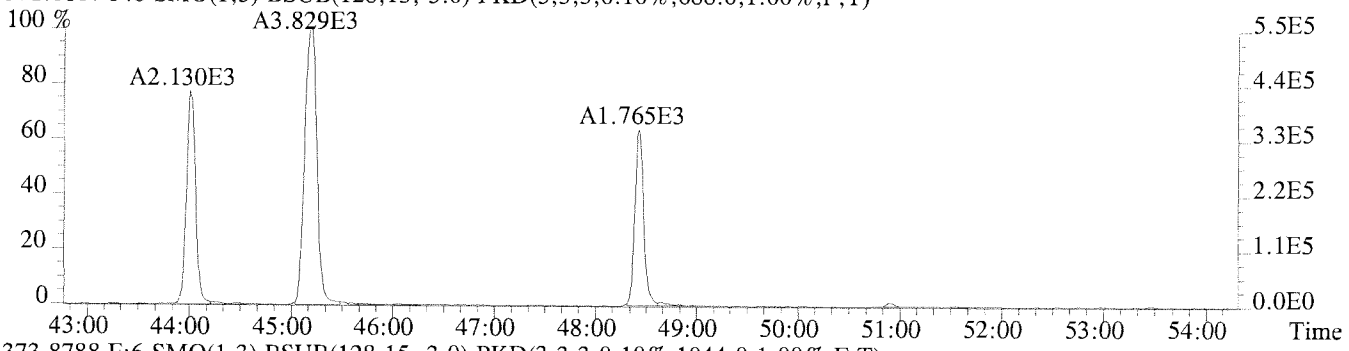
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4036.0,1.00%,F,T)



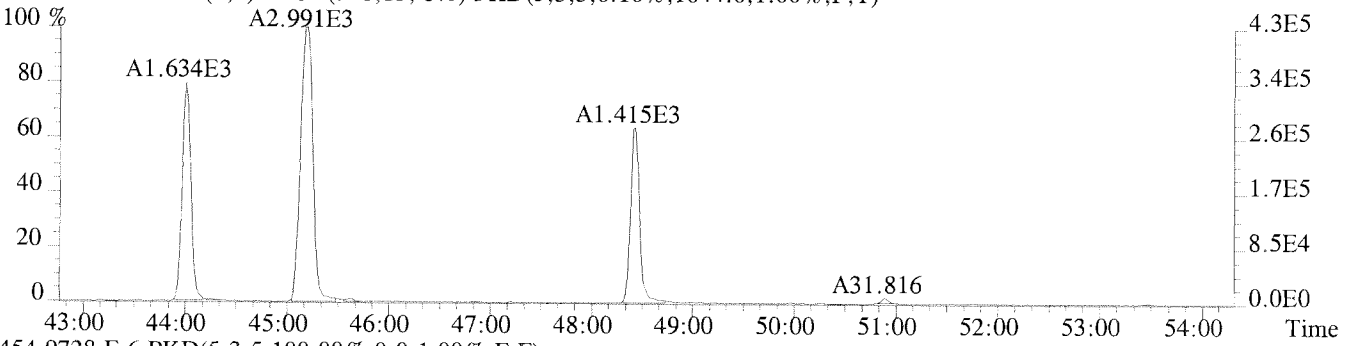
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2852.0,1.00%,F,T)



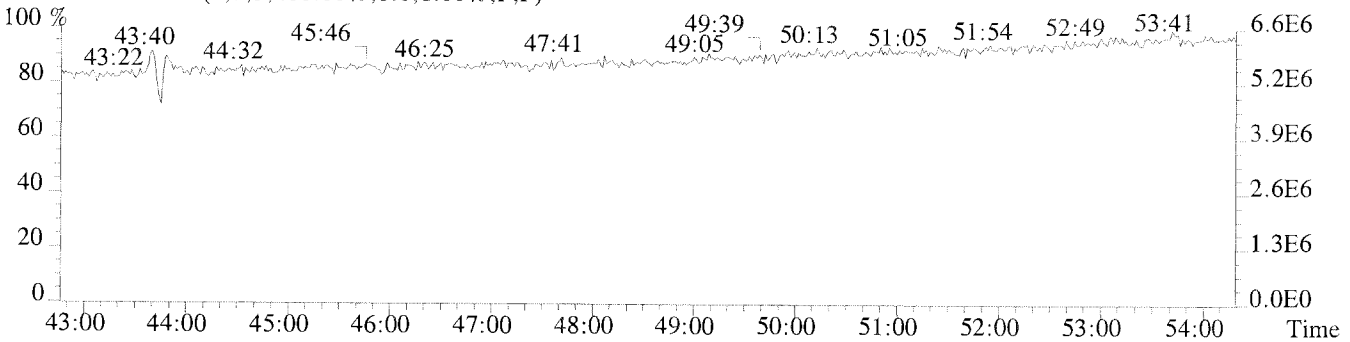
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,688.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1044.0,1.00%,F,T)

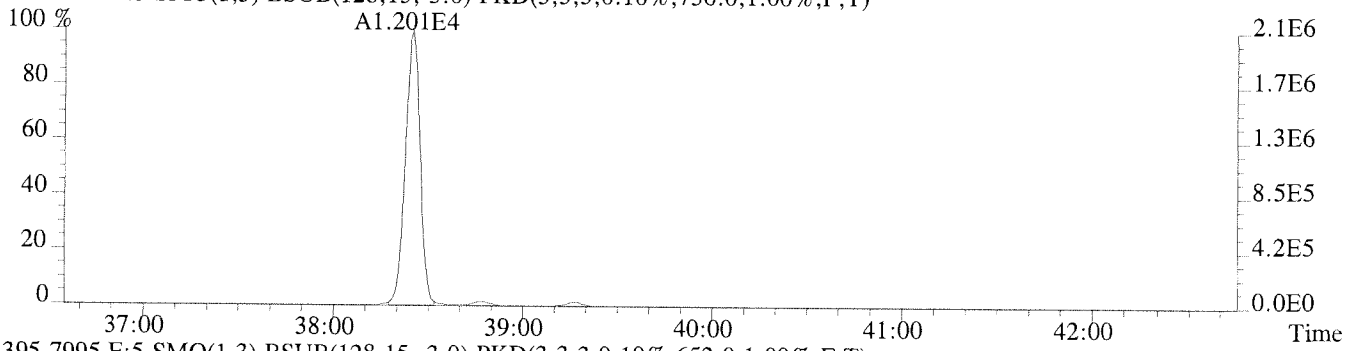


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

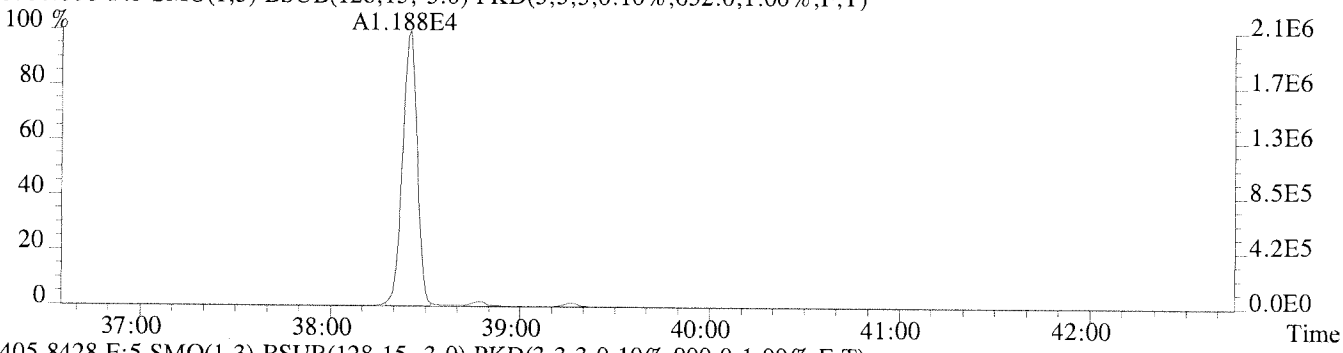


File:U139144 #1-395 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

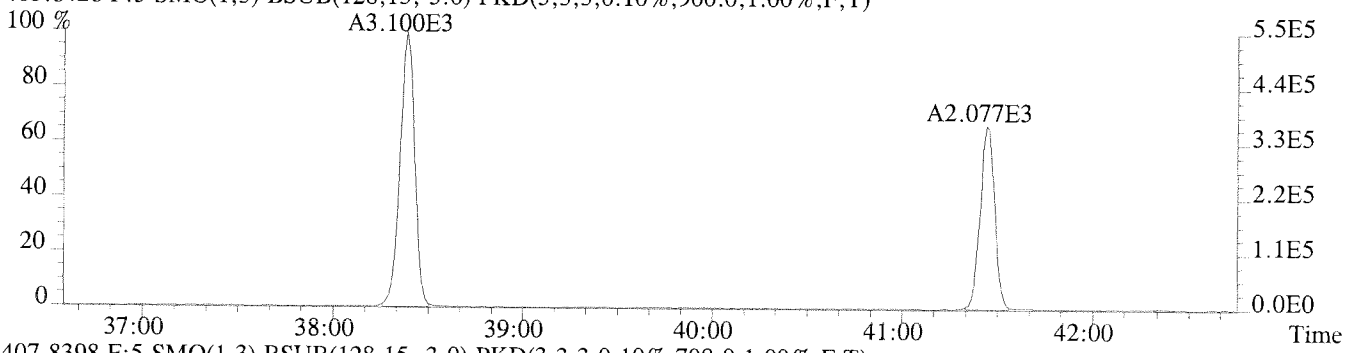
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,736.0,1.00%,F,T)



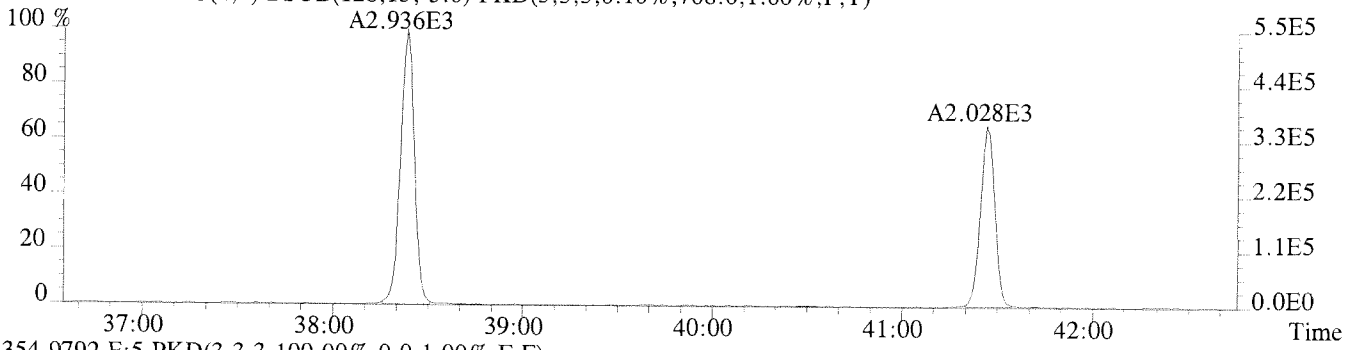
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,652.0,1.00%,F,T)



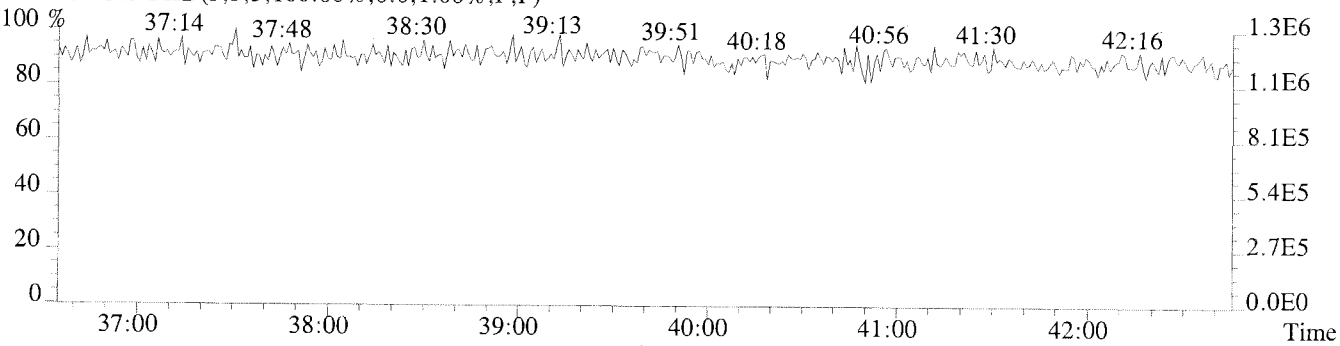
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,708.0,1.00%,F,T)

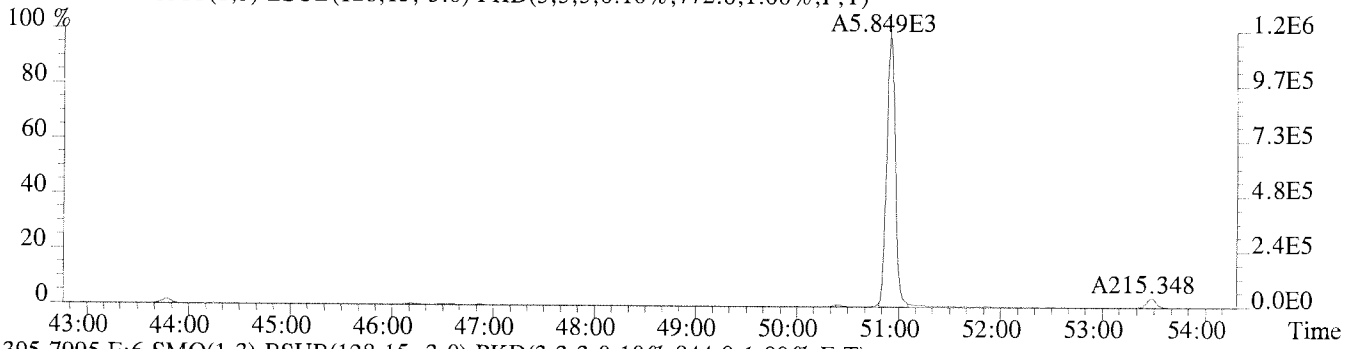


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

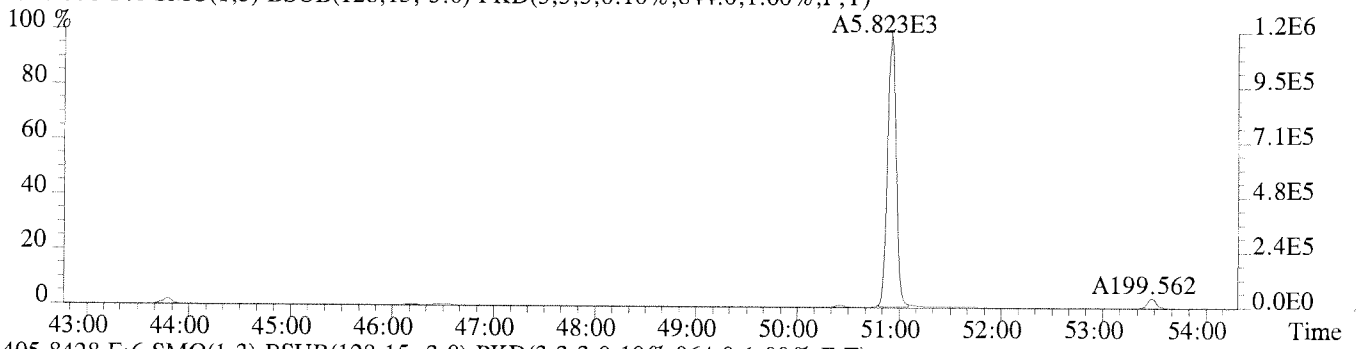


File:U139144 #1-572 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

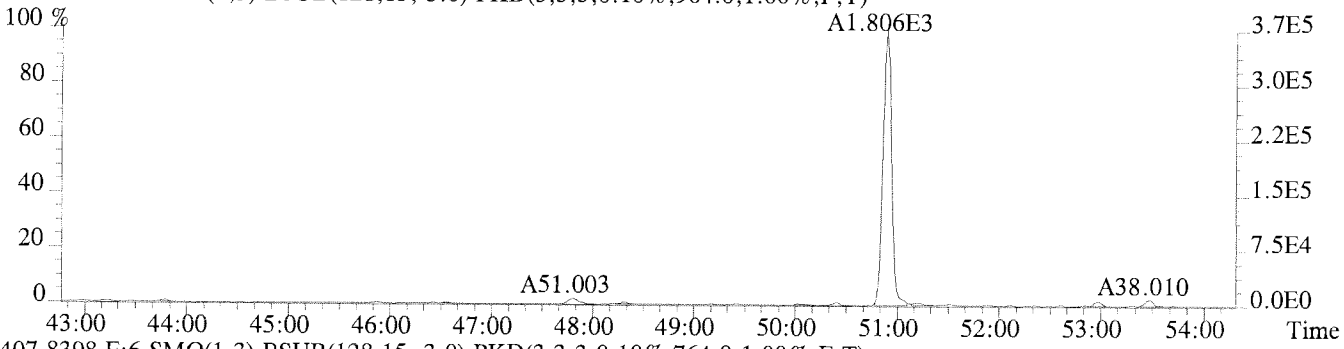
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



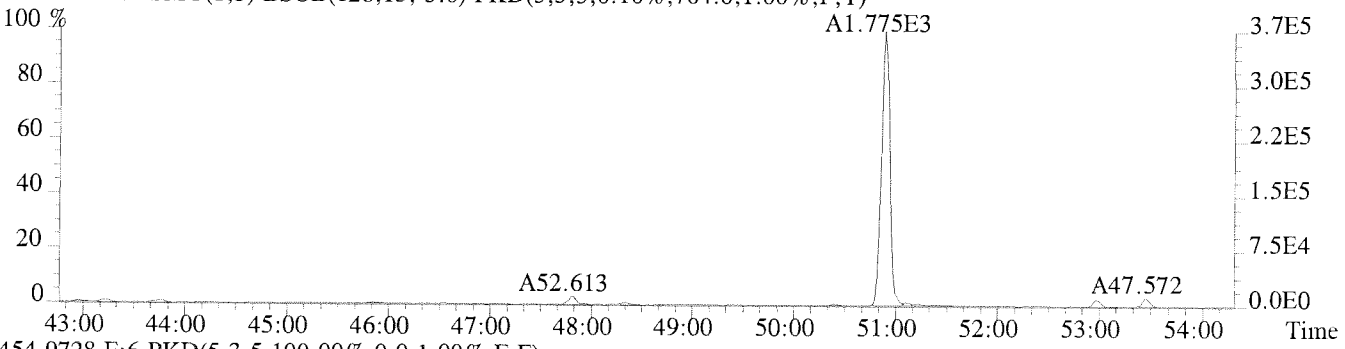
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)



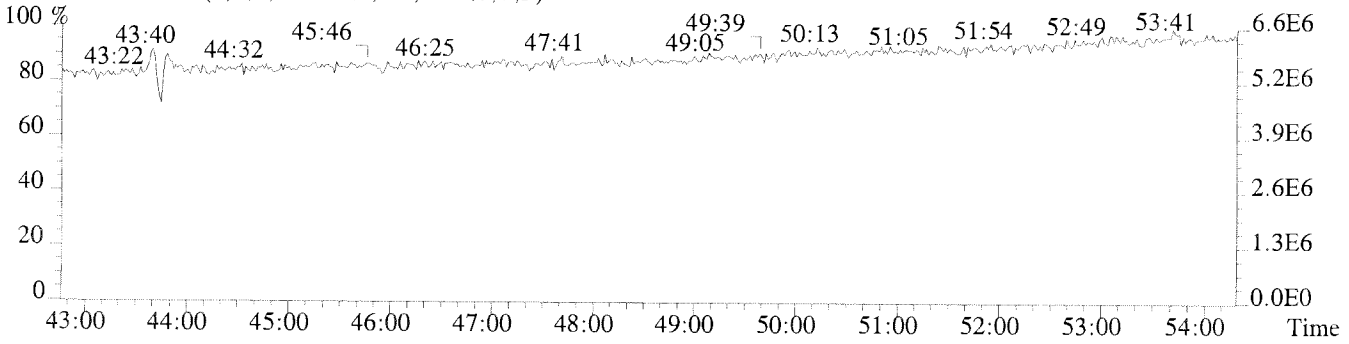
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,964.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,764.0,1.00%,F,T)

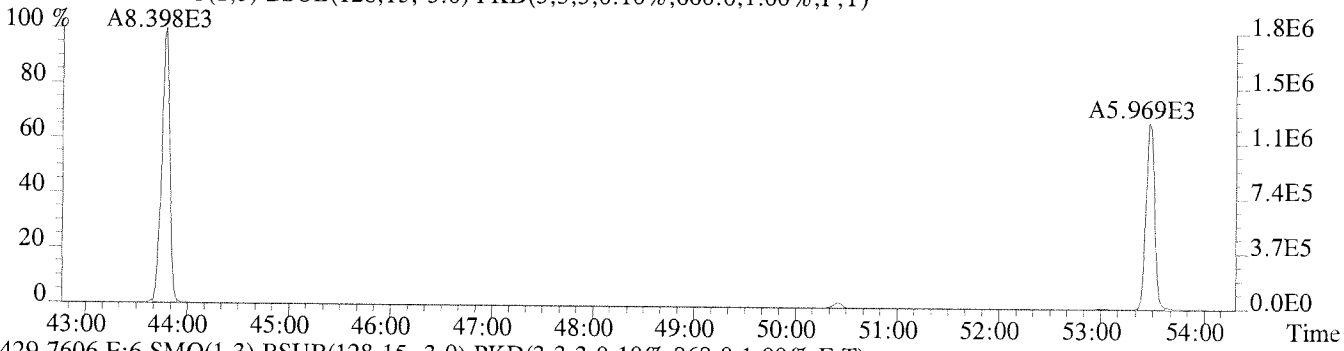


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

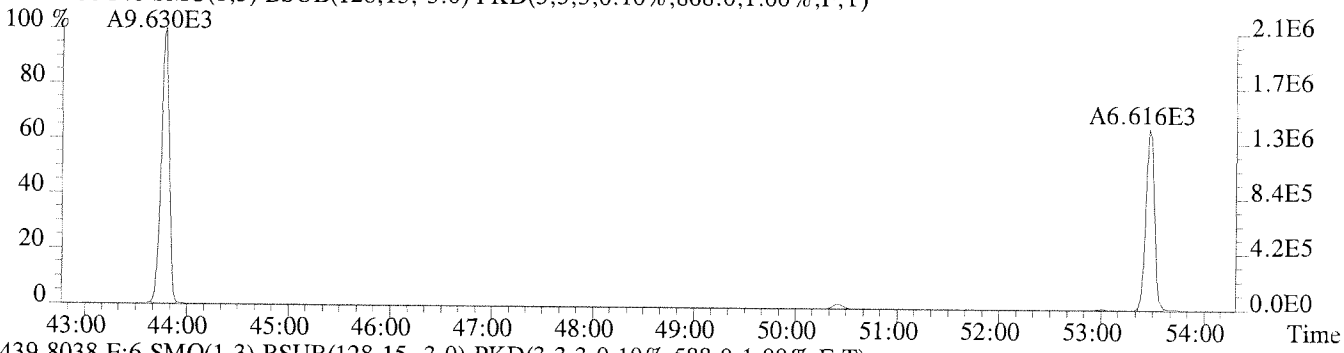


File:U139144 #1-572 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

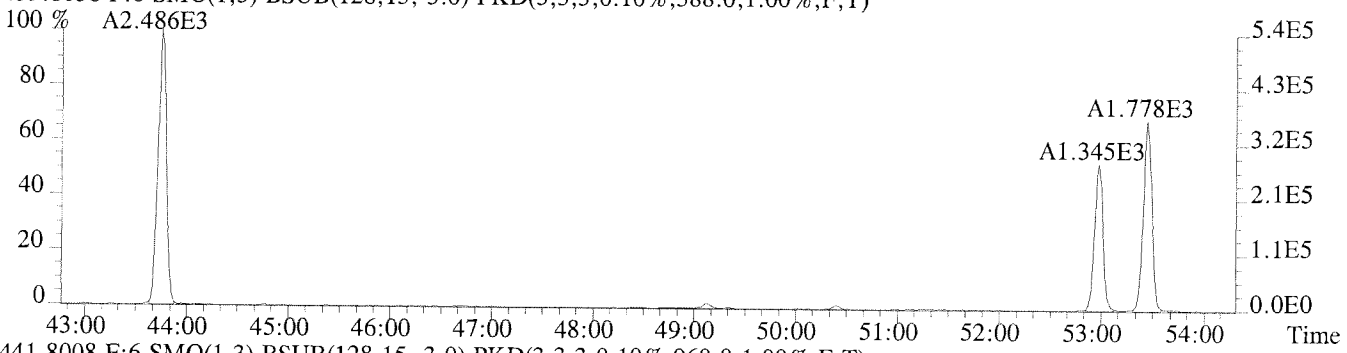
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,660.0,1.00%,F,T)



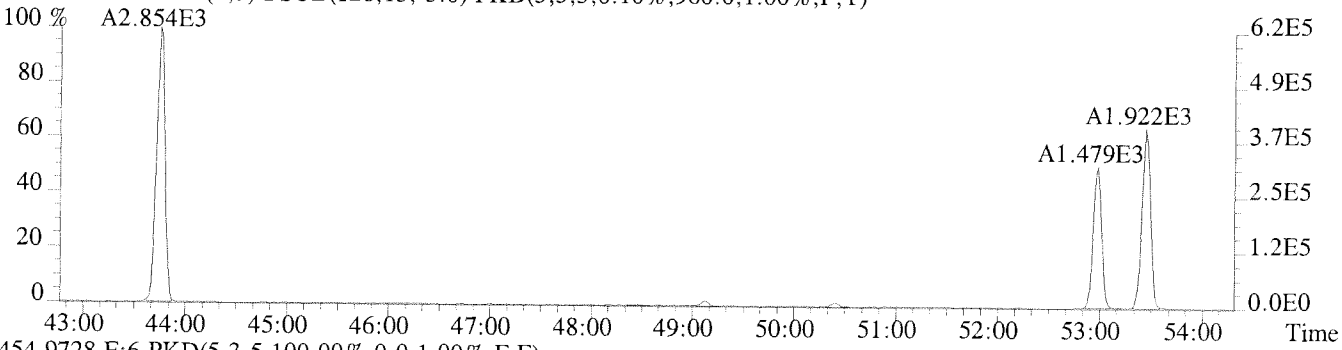
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868.0,1.00%,F,T)



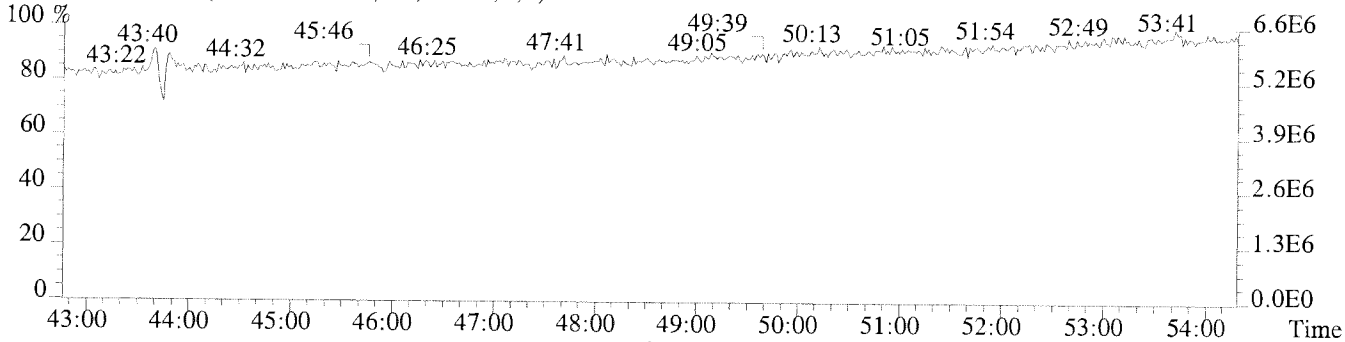
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,588.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)

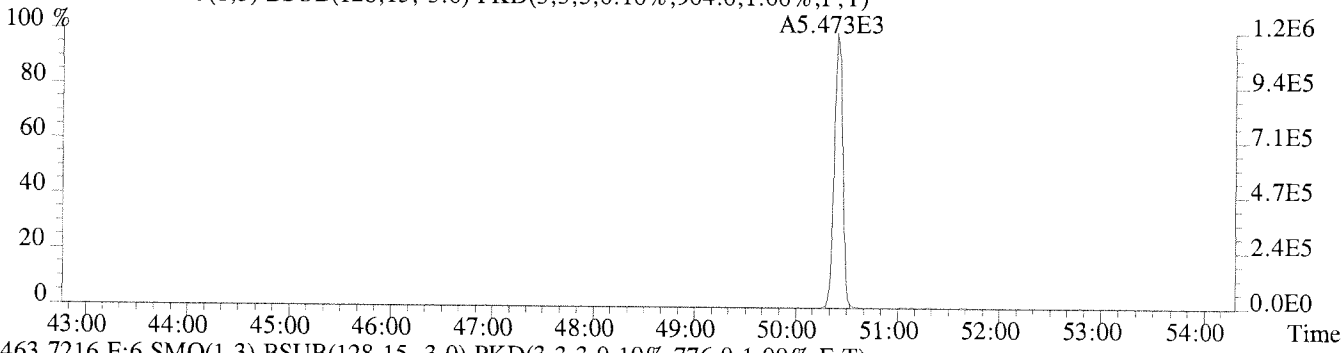


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

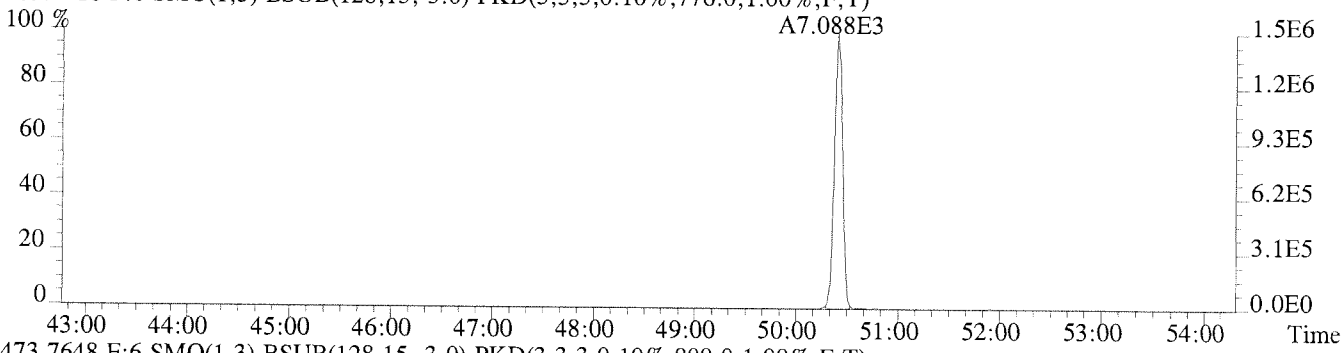


File:U139144 #1-572 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

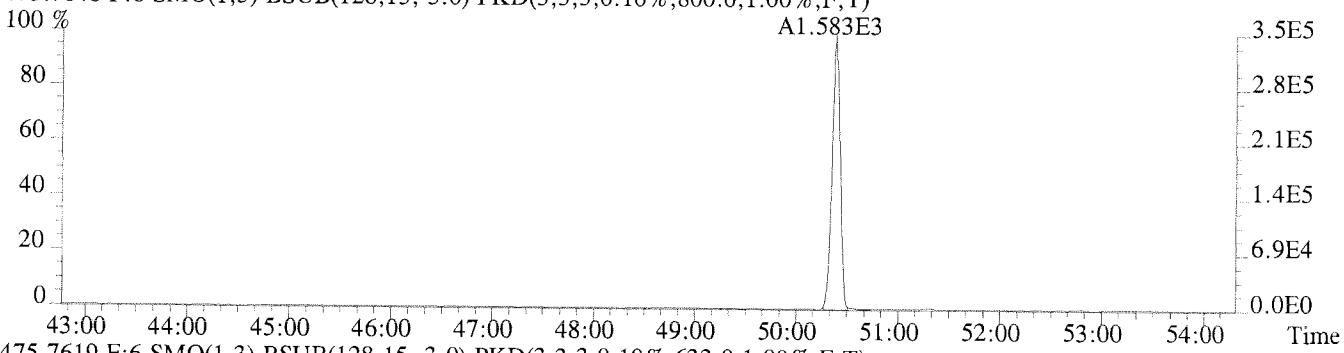
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)



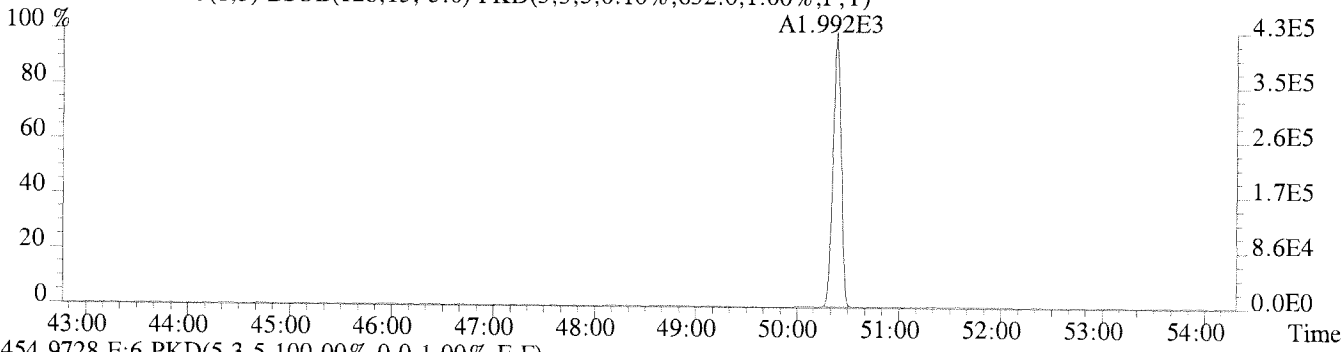
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



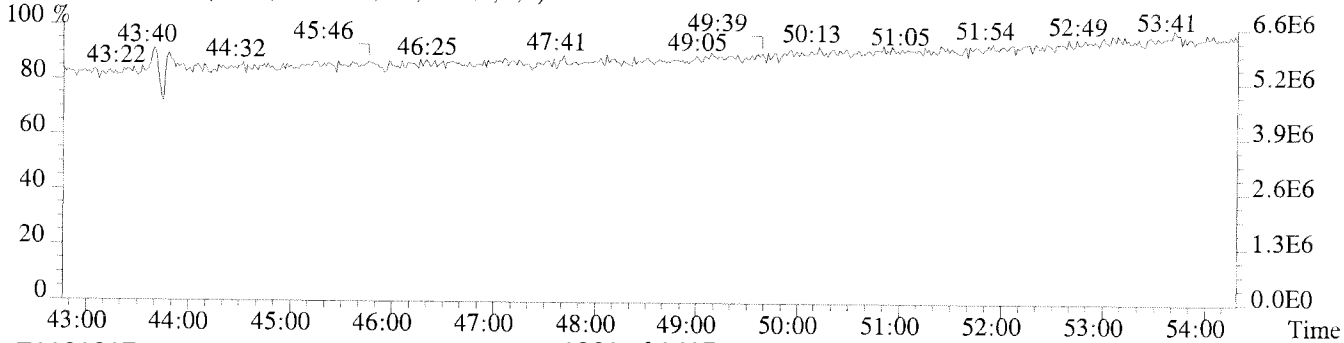
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,800.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,632.0,1.00%,F,T)

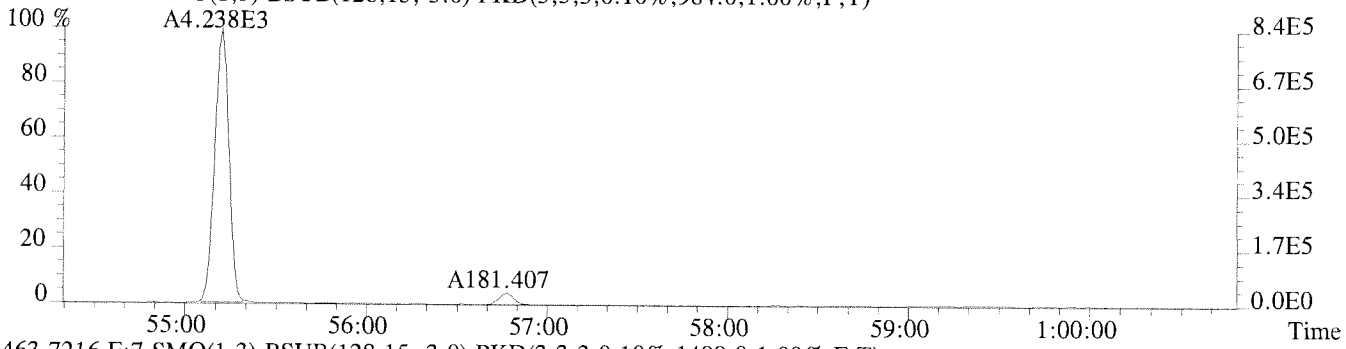


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

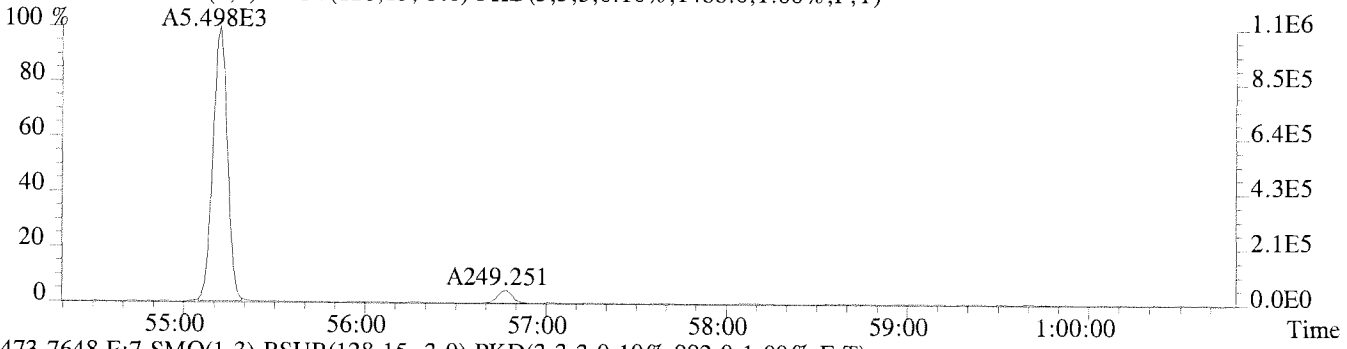


File:U139144 #1-366 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

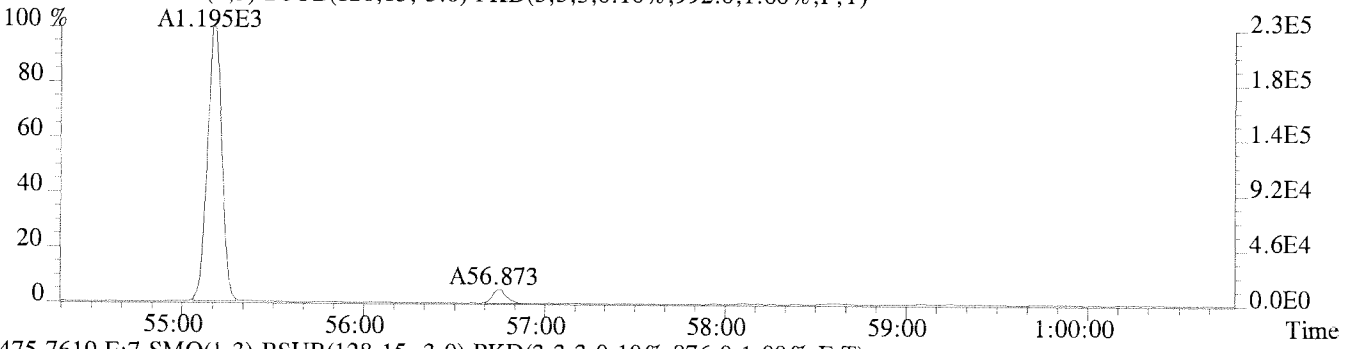
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



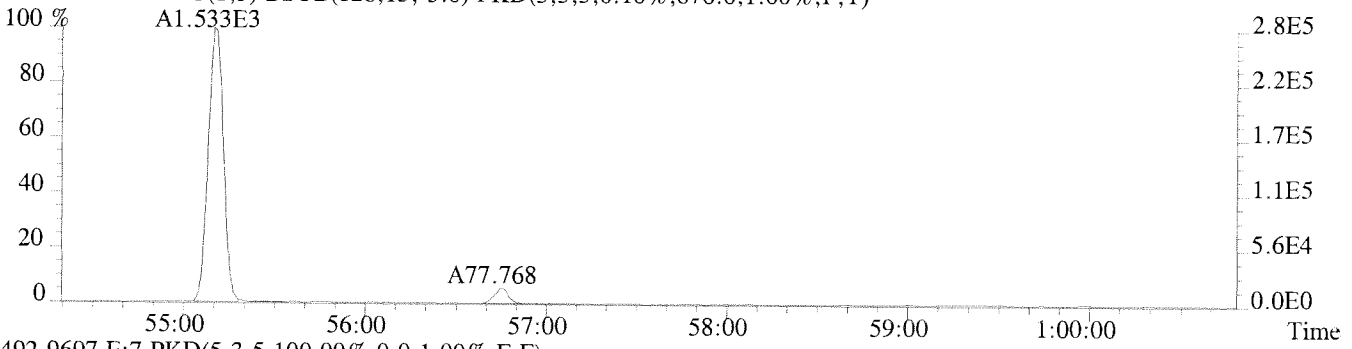
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1488.0,1.00%,F,T)



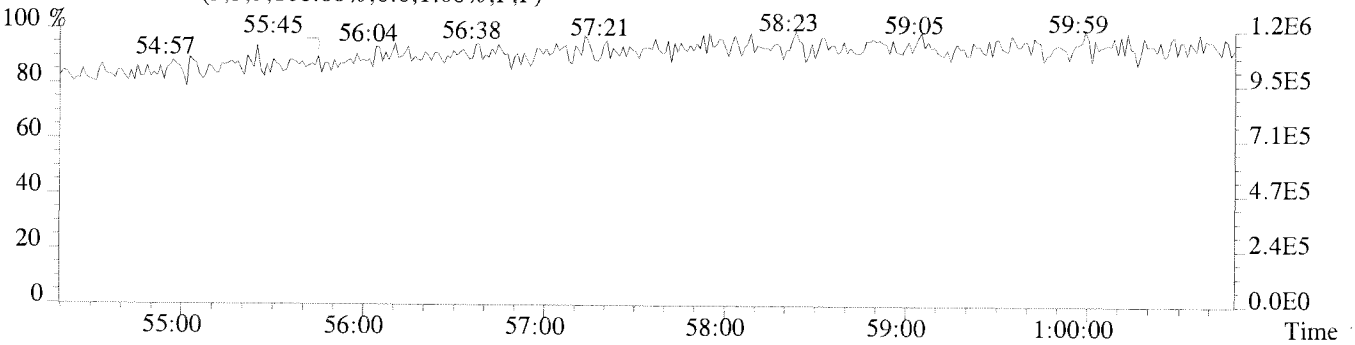
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,876.0,1.00%,F,T)

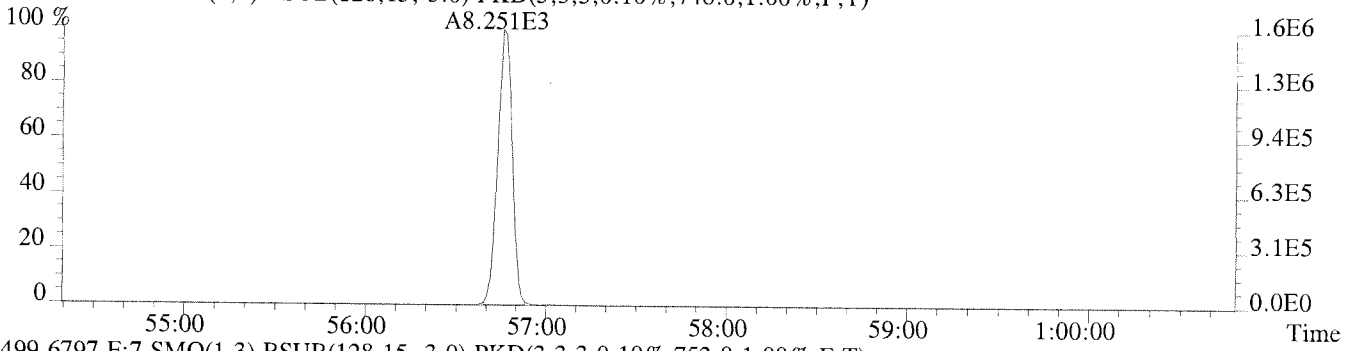


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

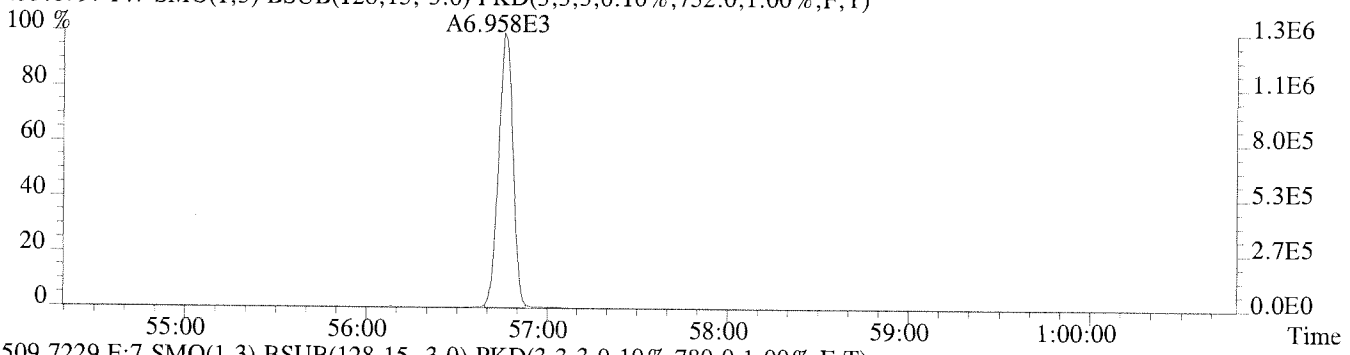


File:U139144 #1-366 Acq:23-FEB-2011 15:48:29 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS4

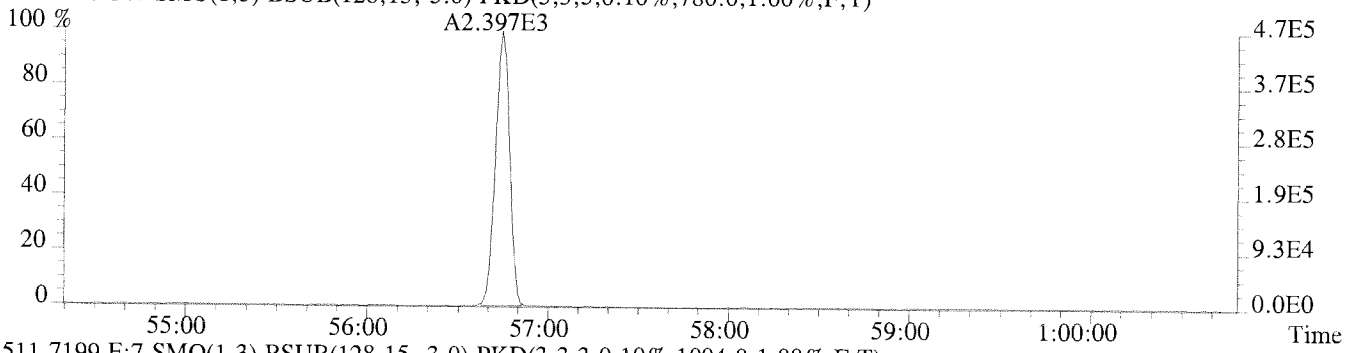
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,748.0,1.00%,F,T)



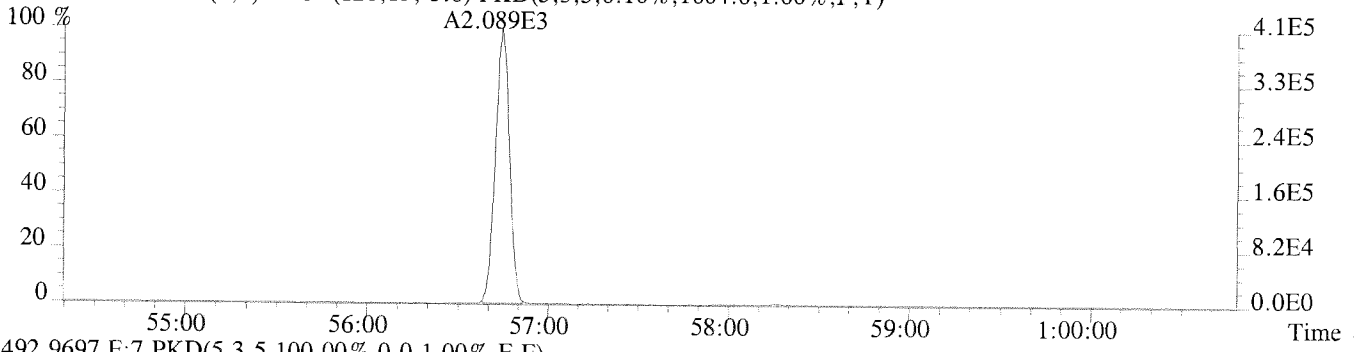
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,752.0,1.00%,F,T)



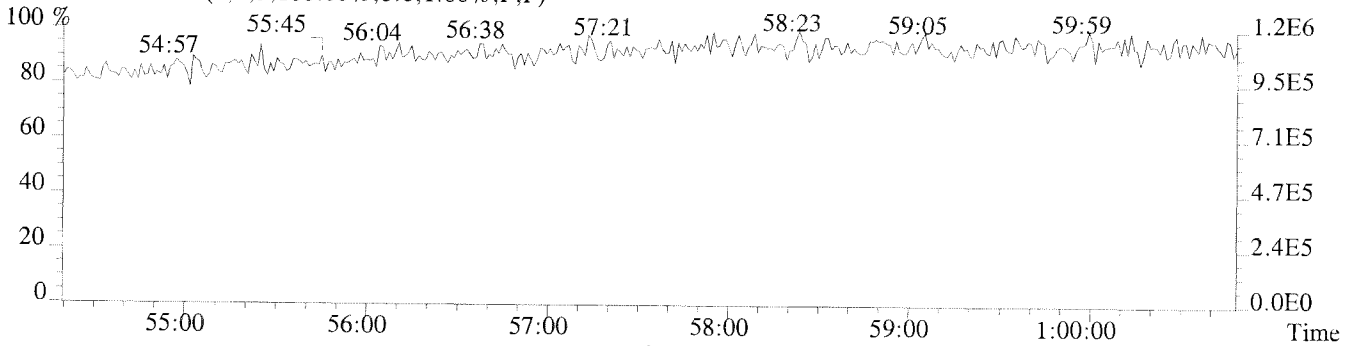
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,780.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL CS5

Run #5 Filename U139145 #1 Samp: 1 Inj: 1 Acquired: 23-FEB-11 16:50:43
Processed: 24-FEB-11 17:57:10 LAB. ID: ICAL CS5

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?	RRT
1	1	2-MoCB	13:02	4.361e+05	1.388e+05	3.14	yes	no	1.001
2	3	4-MoCB	15:13	4.128e+05	1.316e+05	3.14	yes	no	1.001
3	4	22'-DiCB	15:27	2.432e+05	1.582e+05	1.54	yes	no	1.001
4	15	44'-DiCB	21:21	2.635e+05	1.683e+05	1.57	yes	no	1.001
5	19	22'6'-TrCB	18:33	1.497e+05	1.465e+05	1.02	yes	no	1.001
6	37	344'-TrCB	28:22	2.015e+05	1.909e+05	1.06	yes	no	1.001
7	54	22'66'-TeCB	21:37	1.668e+05	2.174e+05	0.77	yes	no	1.001
8	81	344'5-TeCB	35:05	1.369e+05	1.755e+05	0.78	yes	no	1.000
9	77	33'44'-TeCB	35:40	1.295e+05	1.673e+05	0.77	yes	no	1.001
10	104	22'466'-PeCB	27:04	2.415e+05	1.508e+05	1.60	yes	no	1.001
11	123	2'344'5-PeCB	37:36	1.707e+05	1.092e+05	1.56	yes	no	1.000
12	118	23'44'5-PeCB	37:56	1.784e+05	1.132e+05	1.58	yes	no	1.001
13	114	2344'5-PeCB	38:28	1.780e+05	1.139e+05	1.56	yes	no	1.001
14	105	233'44'-PeCB	39:07	1.646e+05	1.043e+05	1.58	yes	no	1.000
15	126	33'44'5-PeCB	42:12	1.381e+05	8.838e+04	1.56	yes	no	1.000
16	155	22'44'66'-HxCB	32:42	2.160e+05	1.696e+05	1.27	yes	no	1.001
17	167	23'44'55'-HxCB	44:02	1.138e+05	9.134e+04	1.25	yes	no	1.000
18	156/7	233'44'5-HxCB	45:12	2.104e+05	1.693e+05	1.24	yes	no	1.000
19	169	33'44'55'-HxCB	48:26	8.620e+04	6.927e+04	1.24	yes	no	1.000
20	188	22'34'566'-HpCB	38:24	1.742e+05	1.688e+05	1.03	yes	no	1.000
21	189	233'44'55'-HpCB	50:55	8.037e+04	7.810e+04	1.03	yes	no	1.000
22	202	22'33'55'66'-OcCB	43:46	1.172e+05	1.325e+05	0.88	yes	no	1.000
23	205	233'44'55'6-OcCB	53:28	8.135e+04	9.188e+04	0.89	yes	no	1.000
24	208	22'33'4'55'66'-NoCB	50:25	7.691e+04	9.893e+04	0.78	yes	no	1.000
25	206	22'33'44'55'6-NoCB	55:12	5.708e+04	7.337e+04	0.78	yes	no	1.001
26	209	DeCB	56:46	1.124e+05	9.569e+04	1.17	yes	no	1.000
27	1L	13C-2-MoCB	13:01	2.008e+04	6.419e+03	3.13	yes	yes	0.748
28	3L	13C-4-MoCB	15:12	1.932e+04	6.096e+03	3.17	yes	yes	0.874
29	4L	13C-22'-DiCB	15:26	1.100e+04	6.763e+03	1.63	yes	no	0.887
30	15L	13C-44'-DiCB	21:20	1.291e+04	8.005e+03	1.61	yes	no	1.226
31	19L	13C-22'6'-TrCB	18:32	7.402e+03	7.135e+03	1.04	yes	no	1.065
32	37L	13C-344'-TrCB	28:21	8.752e+03	8.621e+03	1.02	yes	no	1.085
33	54L	13C-22'66'-TeCB	21:36	8.485e+03	1.057e+04	0.80	yes	no	0.827
34	81L	13C-344'5-TeCB	35:04	6.467e+03	8.518e+03	0.76	yes	no	1.342
35	77L	13C-33'44'-TeCB	35:38	6.223e+03	8.528e+03	0.73	yes	no	1.364
36	104L	13C-22'466'-PeCB	27:03	1.117e+04	7.193e+03	1.55	yes	no	0.821
37	123L	13C-2'344'5-PeCB	37:35	8.237e+03	5.189e+03	1.59	yes	no	1.141
38	118L	13C-23'44'5-PeCB	37:54	8.507e+03	5.375e+03	1.58	yes	no	1.150
39	114L	13C-2344'5-PeCB	38:26	8.804e+03	5.541e+03	1.59	yes	no	1.166
40	105L	13C-233'44'-PeCB	39:07	7.920e+03	4.902e+03	1.62	yes	no	1.187
41	126L	13C-33'44'5-PeCB	42:12	6.959e+03	4.337e+03	1.60	yes	no	1.281
42	155L	13C-22'44'66'-HxCB	32:41	1.071e+04	8.445e+03	1.27	yes	no	0.797
43	167L	13C-23'44'55'-HxCB	44:01	5.707e+03	4.431e+03	1.29	yes	no	1.074
44	156/7	13C-233'44'5'-HxCB	45:11	1.011e+04	7.854e+03	1.29	yes	no	1.102
45	169L	13C-33'44'55'-HxCB	48:25	4.279e+03	3.391e+03	1.26	yes	no	1.181
46	188L	13C-22'34'566'-HpCB	38:23	8.735e+03	8.297e+03	1.05	yes	no	0.724
47	189L	13C-233'44'55'-HpCB	50:54	4.732e+03	4.475e+03	1.06	yes	no	0.961
48	202L	13C-22'33'55'66'-OcCB	43:45	6.997e+03	7.946e+03	0.88	yes	no	0.826
49	205L	13C-233'44'55'6-OcCB	53:27	4.565e+03	5.012e+03	0.91	yes	no	1.009
50	208L	13C-22'33'4'55'66'-NoCB	50:24	4.409e+03	5.597e+03	0.79	yes	no	0.951
51	206L	13C-22'33'44'55'6-NoCB	55:10	3.155e+03	3.940e+03	0.80	yes	no	1.041
52	209L	13C-DeCB	56:45	6.335e+03	5.297e+03	1.20	yes	no	1.071

53	28L	13C-244'-TrCB	24:19	1.128e+04	1.057e+04	1.07	yes	no	0.930
54	111L	13C-233'55'-PeCB	35:36	9.930e+03	6.355e+03	1.56	yes	no	1.080
55	178L	13C-22'33'55'6-HpCB	41:26	5.781e+03	5.386e+03	1.07	yes	no	1.011
56	9L	13C-2,5-DiCB	17:24	1.319e+04	8.397e+03	1.57	yes	no	*
57	52L	13C-22'55'-TeCB	26:08	7.090e+03	9.247e+03	0.77	yes	no	*
58	101L	13C-22'4'55'-PeCB	32:57	8.117e+03	5.040e+03	1.61	yes	no	*
59	138L	13C-22'3'44'5'-HxCB	41:00	6.060e+03	4.850e+03	1.25	yes	no	*
60	194L	13C-22'33'44'55'-OcCB	52:59	3.344e+03	3.782e+03	0.88	yes	no	*

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL CS5

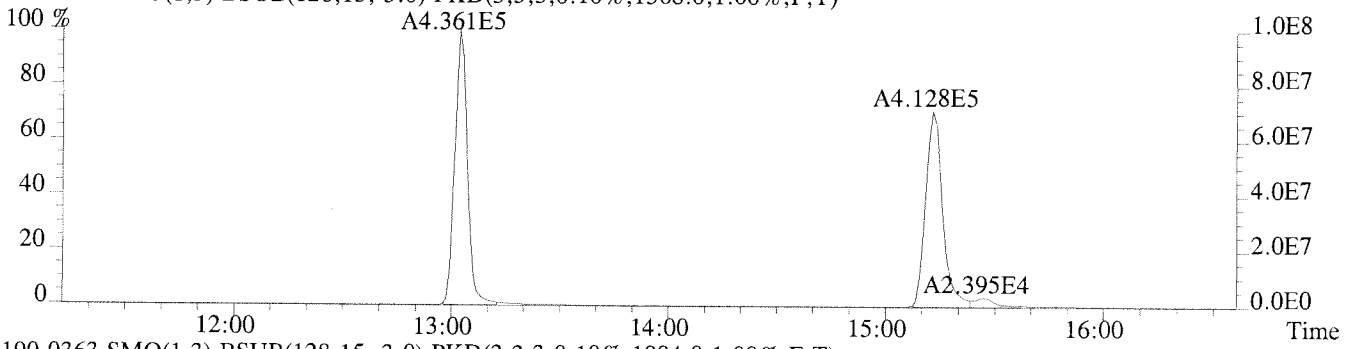
Run #5 Filename U139145 Samp: 1 Inj: 1 Acquired: 23-FEB-11 16:50:43
Processed: 24-FEB-11 17:57:101 LAB. ID: ICAL CS5

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	1.00e+08	1.37e+03	7.3e+04	3.20e+07	1.88e+03	1.7e+04
	4-MoCB	7.13e+07	1.37e+03	5.2e+04	2.27e+07	1.88e+03	1.2e+04
	22'-DiCB	4.49e+07	2.53e+03	1.8e+04	2.93e+07	7.81e+03	3.8e+03
	44'-DiCB	3.92e+07	5.69e+03	6.9e+03	2.49e+07	8.36e+03	3.0e+03
	22'6'-TrCB	2.65e+07	9.84e+02	2.7e+04	2.60e+07	8.56e+02	3.0e+04
	344'-TrCB	2.77e+07	1.82e+03	1.5e+04	2.64e+07	2.01e+03	1.3e+04
7	22'66'-TeCB	2.73e+07	6.32e+02	4.3e+04	3.56e+07	8.68e+02	4.1e+04
8	344'5-TeCB	2.23e+07	1.75e+03	1.3e+04	2.86e+07	1.56e+03	1.8e+04
	33'44'-TeCB	1.99e+07	1.75e+03	1.1e+04	2.55e+07	1.56e+03	1.6e+04
	22'466'-PeCB	3.71e+07	7.60e+02	4.9e+04	2.31e+07	8.68e+02	2.7e+04
11	2'344'5-PeCB	2.99e+07	5.41e+04	5.5e+02	1.90e+07	2.65e+04	7.2e+02
12	23'44'5-PeCB	3.01e+07	5.41e+04	5.6e+02	1.91e+07	2.65e+04	7.2e+02
13	2344'5-PeCB	3.08e+07	5.41e+04	5.7e+02	1.96e+07	2.65e+04	7.4e+02
14	233'44'-PeCB	2.78e+07	5.41e+04	5.1e+02	1.78e+07	2.65e+04	6.7e+02
15	33'44'5-PeCB	2.25e+07	5.41e+04	4.2e+02	1.42e+07	2.65e+04	5.4e+02
16	22'44'66'-HxCB	3.68e+07	5.06e+03	7.3e+03	2.88e+07	2.69e+03	1.1e+04
17	23'44'55'-HxCB	2.45e+07	4.15e+03	5.9e+03	1.97e+07	4.47e+03	4.4e+03
18	233'44'5-HxCB	3.11e+07	4.15e+03	7.5e+03	2.50e+07	4.47e+03	5.6e+03
19	33'44'55'-HxCB	1.81e+07	4.15e+03	4.4e+03	1.46e+07	4.47e+03	3.3e+03
20	22'34'566'-HpCB	3.05e+07	7.24e+02	4.2e+04	2.98e+07	5.04e+02	5.9e+04
	233'44'55'-HpCB	1.72e+07	8.72e+02	2.0e+04	1.66e+07	9.68e+02	1.7e+04
	22'33'55'66'-OcCB	2.53e+07	1.57e+03	1.6e+04	2.87e+07	7.48e+02	3.8e+04
	233'44'55'6-OcCB	1.76e+07	1.57e+03	1.1e+04	1.99e+07	7.48e+02	2.7e+04
	22'33'4'55'66'-NoCB	1.68e+07	8.44e+02	2.0e+04	2.16e+07	1.14e+03	1.9e+04
	22'33'44'55'6-NoCB	1.10e+07	2.32e+03	4.7e+03	1.41e+07	3.59e+03	3.9e+03
26	DeCB	2.19e+07	7.76e+02	2.8e+04	1.86e+07	9.40e+02	2.0e+04
	13C-2-MoCB	4.58e+06	1.93e+03	2.4e+03	1.49e+06	3.35e+04	4.4e+01
28	13C-4-MoCB	3.34e+06	1.93e+03	1.7e+03	1.09e+06	3.35e+04	3.2e+01
29	13C-22'-DiCB	2.05e+06	4.35e+03	4.7e+02	1.26e+06	2.13e+03	5.9e+02
30	13C-44'-DiCB	1.95e+06	4.83e+03	4.0e+02	1.23e+06	2.52e+03	4.9e+02
31	13C-22'6'-TrCB	1.34e+06	1.71e+04	7.8e+01	1.28e+06	9.44e+03	1.4e+02
32	13C-344'-TrCB	1.28e+06	1.83e+04	7.0e+01	1.23e+06	9.93e+03	1.2e+02
33	13C-22'66'-TeCB	1.40e+06	2.08e+03	6.7e+02	1.76e+06	8.96e+02	2.0e+03
34	13C-344'5-TeCB	1.08e+06	2.75e+03	3.9e+02	1.40e+06	8.68e+02	1.6e+03
35	13C-33'44'-TeCB	9.99e+05	2.75e+03	3.6e+02	1.30e+06	8.68e+02	1.5e+03
36	13C-22'466'-PeCB	1.65e+06	9.00e+02	1.8e+03	1.08e+06	8.60e+02	1.3e+03
37	13C-2'344'5-PeCB	1.42e+06	3.37e+03	4.2e+02	8.87e+05	5.74e+03	1.5e+02
38	13C-23'44'5-PeCB	1.45e+06	3.37e+03	4.3e+02	9.13e+05	5.74e+03	1.6e+02
	13C-2344'5-PeCB	1.52e+06	3.37e+03	4.5e+02	9.83e+05	5.74e+03	1.7e+02
	13C-233'44'-PeCB	1.33e+06	3.37e+03	3.9e+02	8.55e+05	5.74e+03	1.5e+02
	13C-33'44'5-PeCB	1.17e+06	3.37e+03	3.5e+02	7.41e+05	5.74e+03	1.3e+02
	13C-22'44'66'-HxCB	1.85e+06	9.68e+02	1.9e+03	1.45e+06	1.21e+03	1.2e+03
43	13C-23'44'55'-HxCB	1.23e+06	2.25e+03	5.4e+02	9.70e+05	3.46e+03	2.8e+02
44	13C-233'44'5'-HxCB	1.50e+06	2.25e+03	6.6e+02	1.17e+06	3.46e+03	3.4e+02
45	13C-33'44'55'-HxCB	8.99e+05	2.25e+03	4.0e+02	7.32e+05	3.46e+03	2.1e+02
	13C-22'34'566'-HpCB	1.55e+06	9.76e+02	1.6e+03	1.48e+06	5.72e+02	2.6e+03
47	13C-233'44'55'-HpCB	9.93e+05	1.36e+03	7.3e+02	9.38e+05	1.08e+03	8.7e+02
48	13C-22'33'55'66'-OcCB	1.49e+06	8.72e+02	1.7e+03	1.72e+06	1.34e+03	1.3e+03
49	13C-233'44'55'6-OcCB	9.80e+05	8.72e+02	1.1e+03	1.07e+06	1.34e+03	8.0e+02
50	13C-22'33'4'55'66'-NoCB	9.45e+05	8.92e+02	1.1e+03	1.21e+06	9.92e+02	1.2e+03
51	13C-22'33'44'55'6-NoCB	6.10e+05	7.24e+02	8.4e+02	7.63e+05	6.24e+02	1.2e+03
52	13C-DeCB	1.25e+06	8.16e+02	1.5e+03	1.02e+06	9.24e+02	1.1e+03

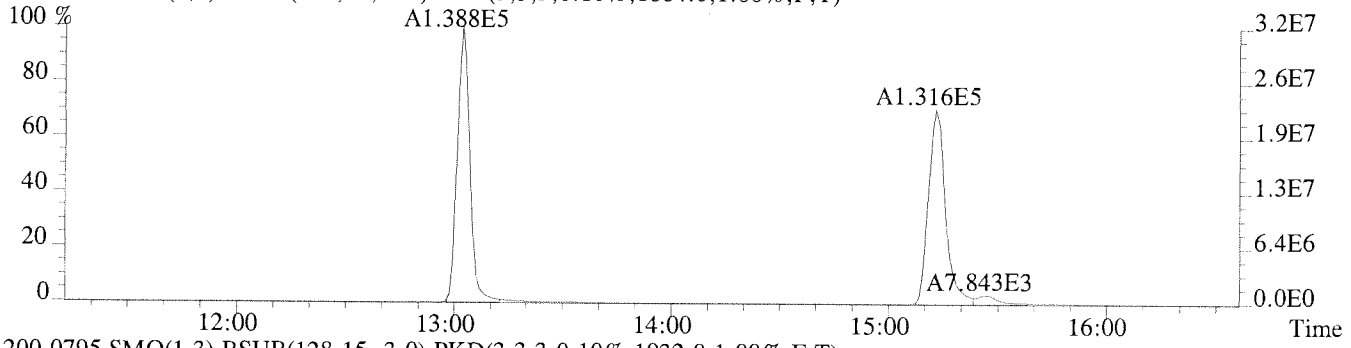
13C-244'-TrCB	1.39e+06	1.83e+04	7.6e+01	1.34e+06	9.93e+03	1.3e+02
13C-233'55'-PeCB	1.64e+06	1.56e+03	1.0e+03	1.03e+06	1.75e+03	5.9e+02
13C-22'33'55'6-HpCB	1.02e+06	9.76e+02	1.0e+03	9.34e+05	5.72e+02	1.6e+03
13C-2,5-DiCB	2.24e+06	4.83e+03	4.6e+02	1.40e+06	2.52e+03	5.6e+02
13C-22'55'-TeCB	1.01e+06	2.28e+03	4.4e+02	1.30e+06	1.40e+03	9.3e+02
13C-22'4'55'-PeCB	1.31e+06	1.56e+03	8.3e+02	8.26e+05	1.75e+03	4.7e+02
13C-22'3'44'5'-HxCB	9.95e+05	9.16e+02	1.1e+03	8.07e+05	9.04e+02	8.9e+02
13C-22'33'44'55'-OcCB	6.91e+05	8.72e+02	7.9e+02	7.87e+05	1.34e+03	5.9e+02

File:U139145 #1-347 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

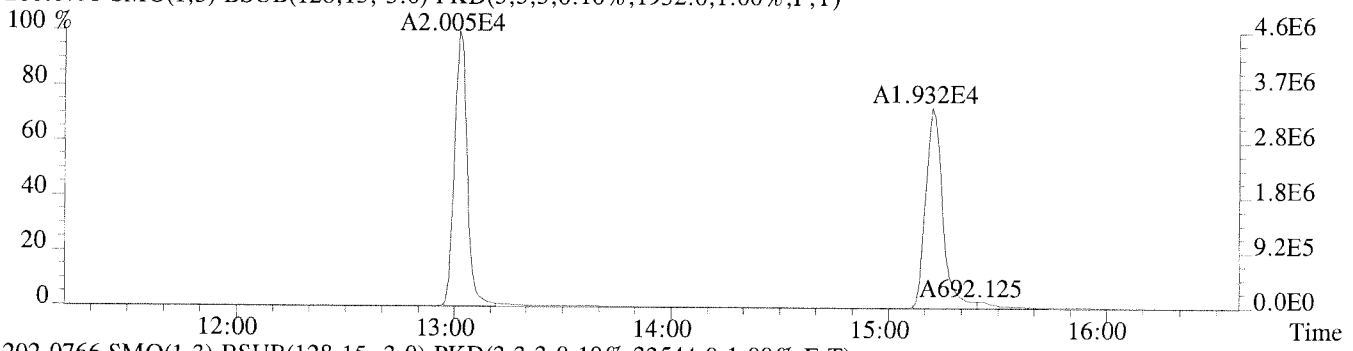
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1368.0,1.00%,F,T)



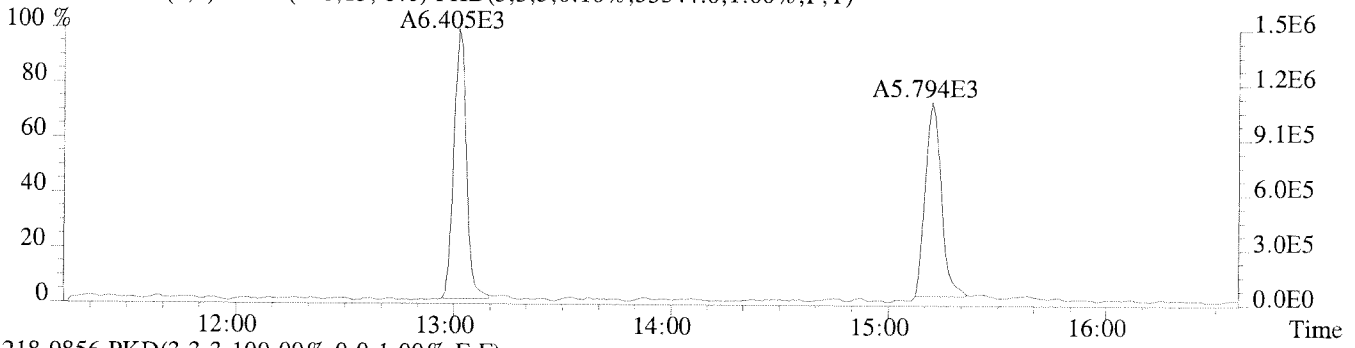
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1884.0,1.00%,F,T)



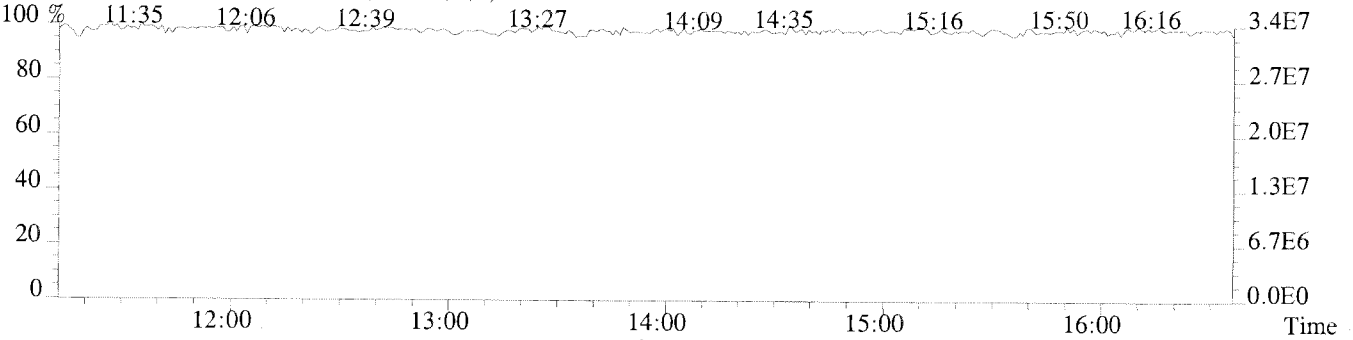
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1932.0,1.00%,F,T)



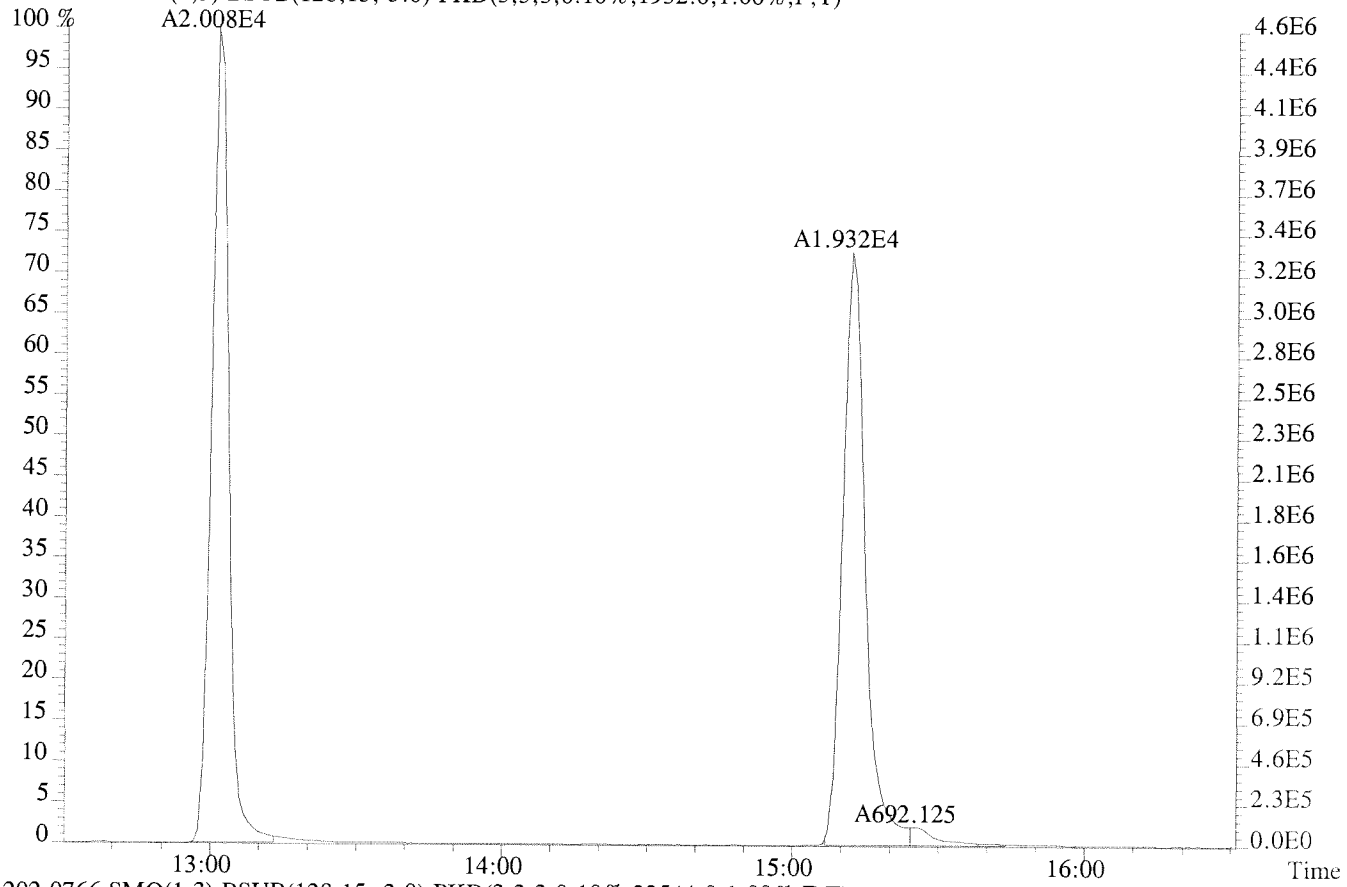
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,33544.0,1.00%,F,T)



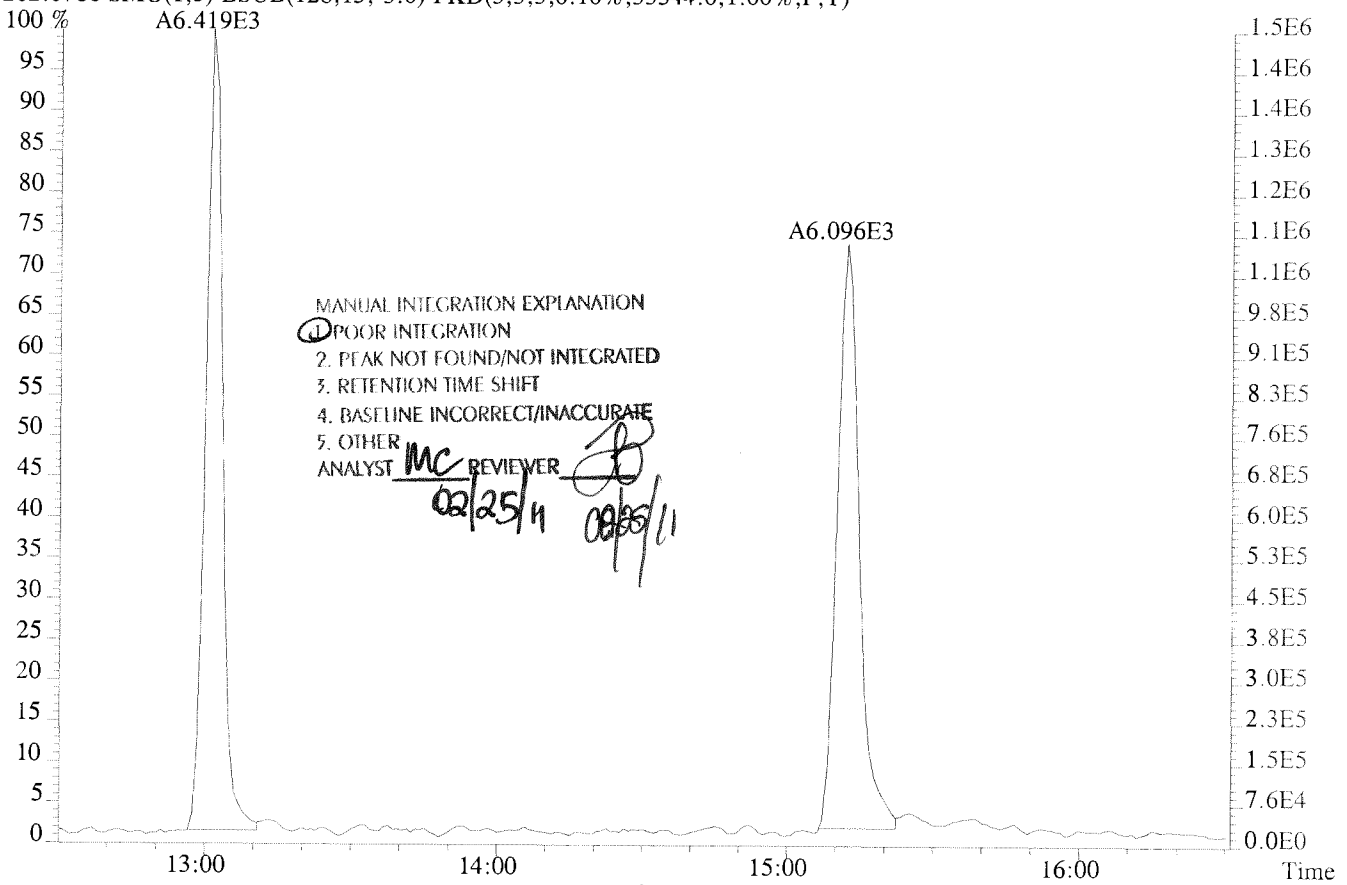
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139145 #1-347 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1932.0,1.00%,F,T)



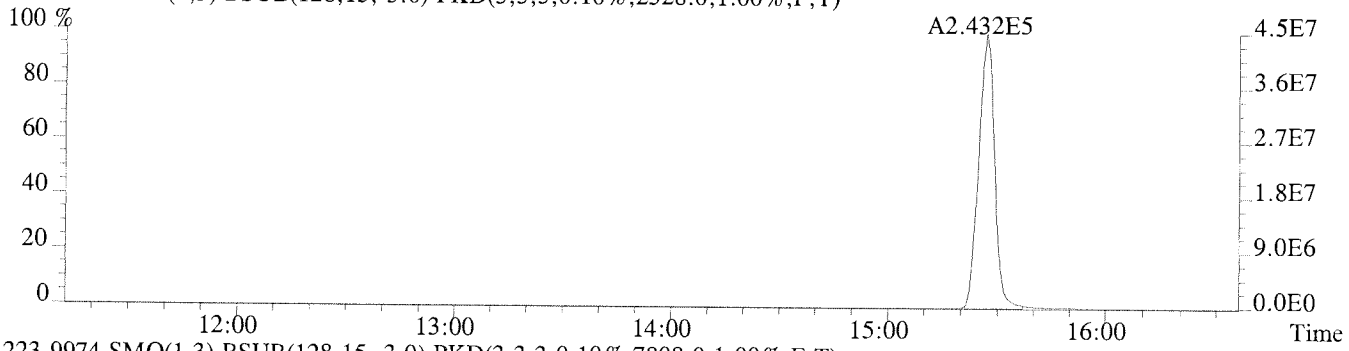
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,33544.0,1.00%,F,T)



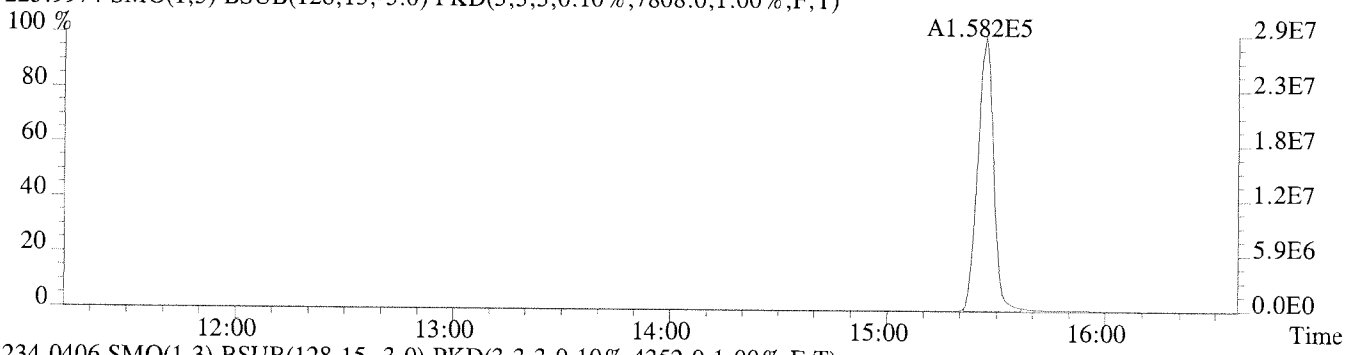
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST MC REVIEWER
02/25/11 03/06/11

File:U139145 #1-347 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

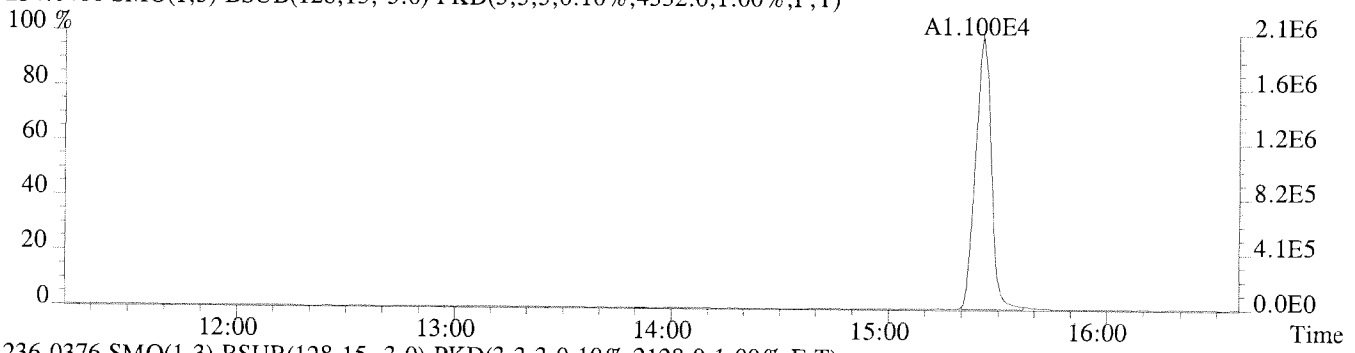
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2528.0,1.00%,F,T)



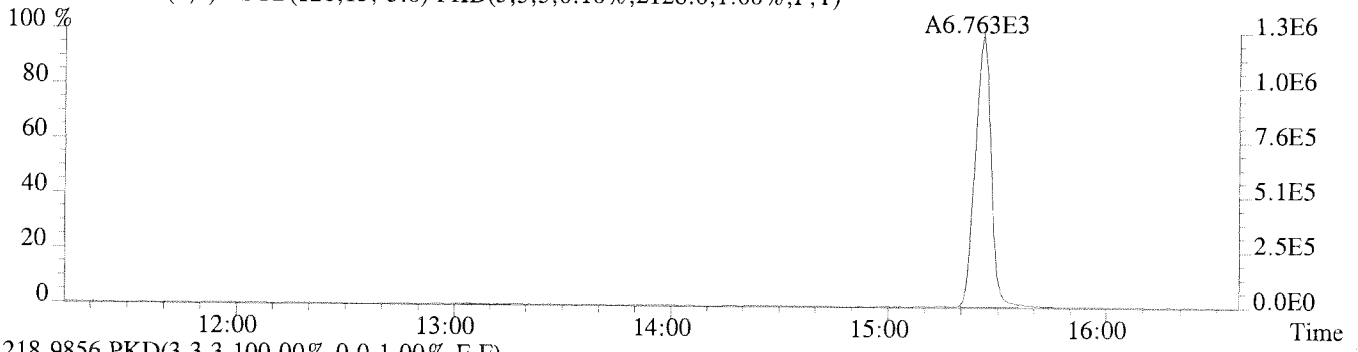
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7808.0,1.00%,F,T)



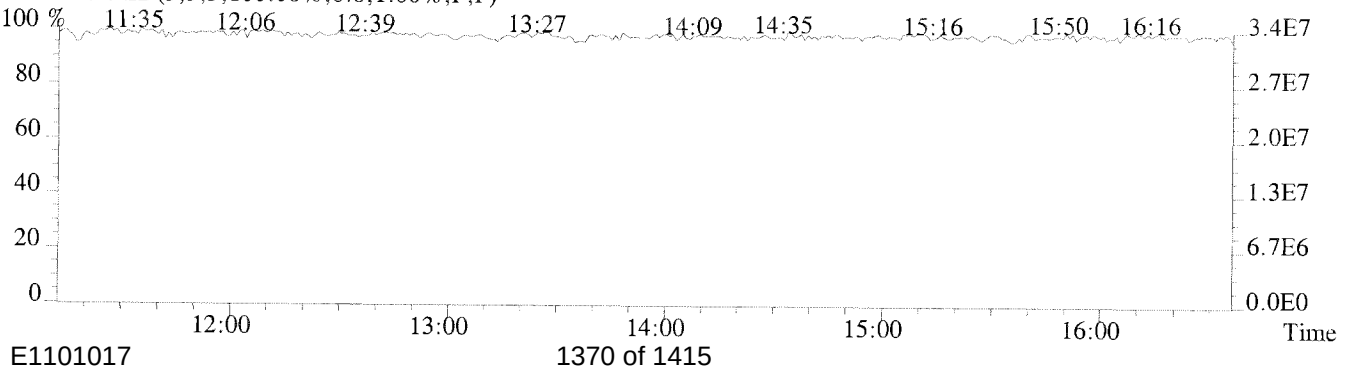
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4352.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2128.0,1.00%,F,T)

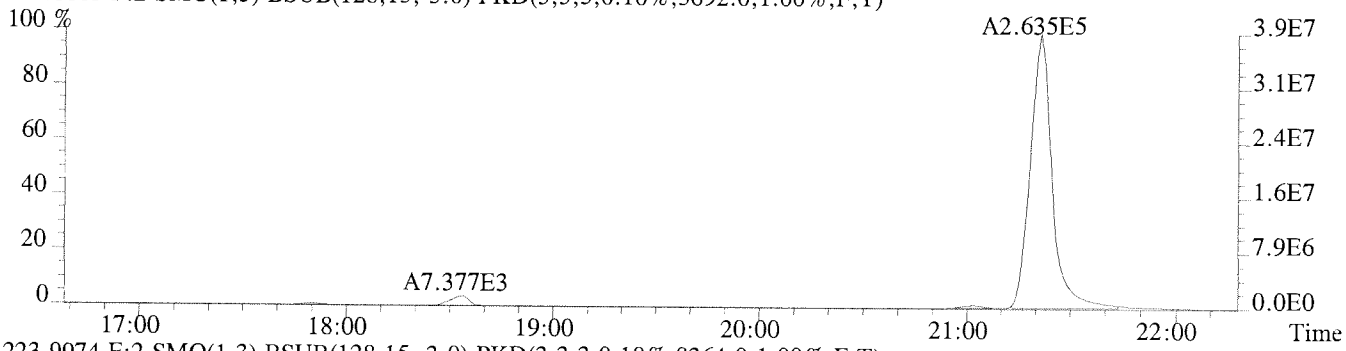


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

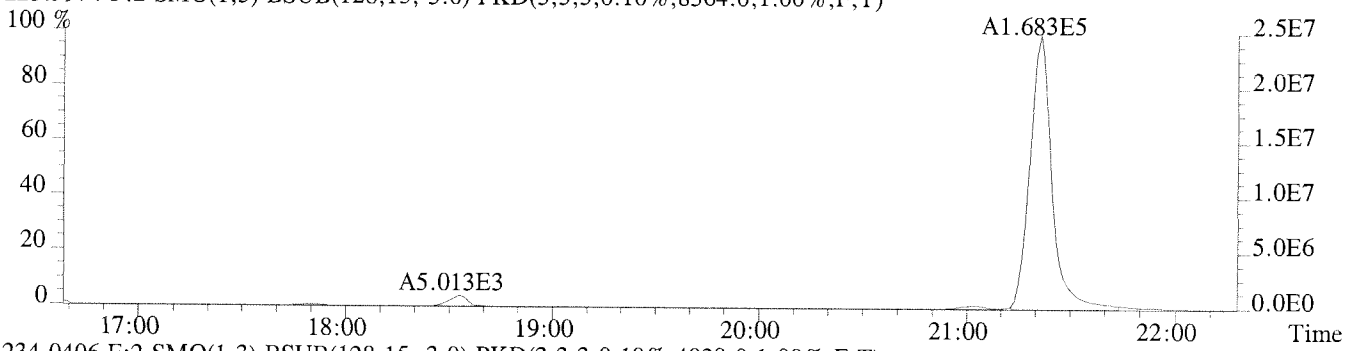


File:U139145 #1-313 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

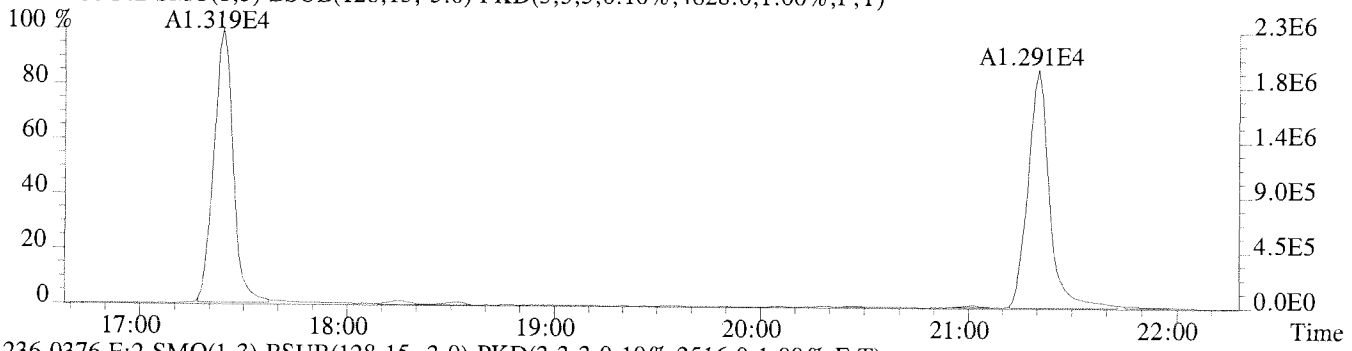
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5692.0,1.00%,F,T)



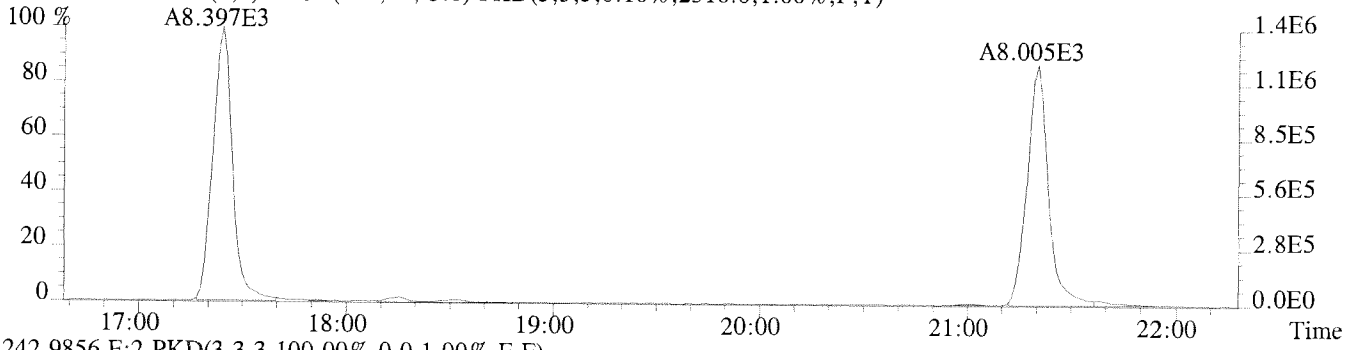
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,8364.0,1.00%,F,T)



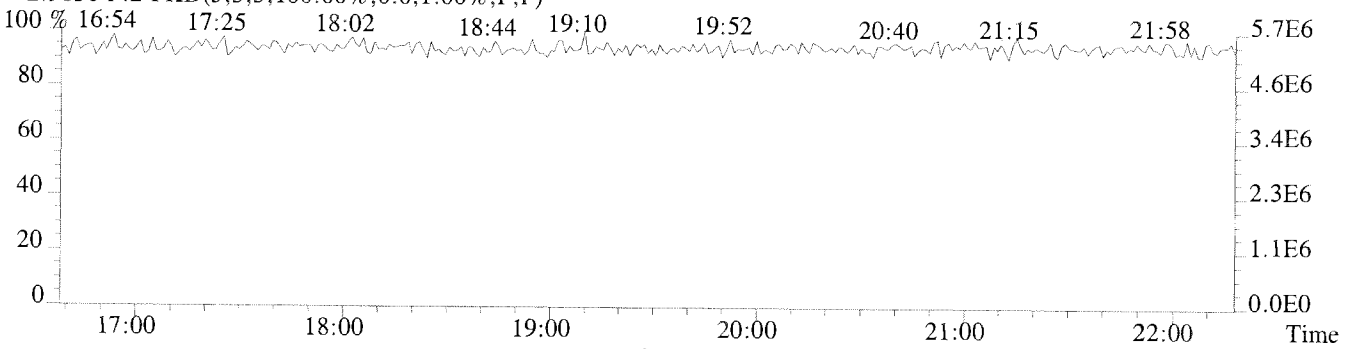
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4828.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2516.0,1.00%,F,T)

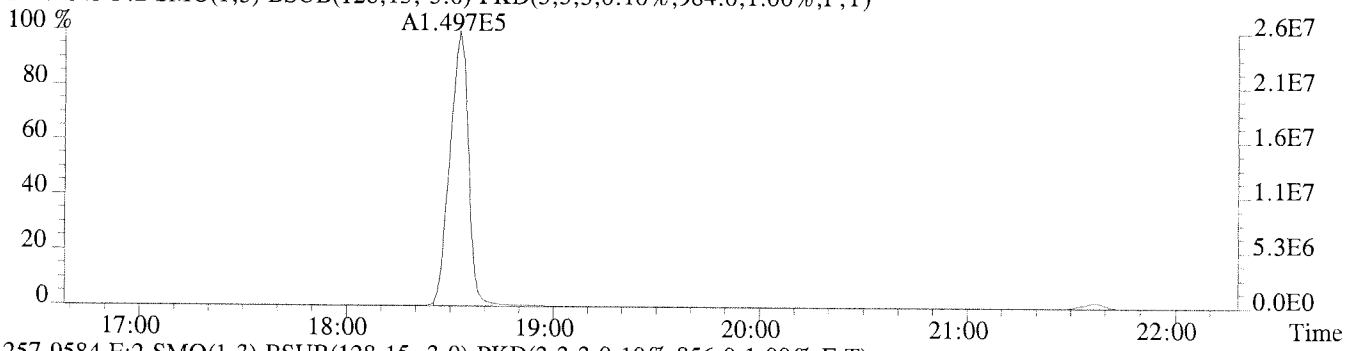


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

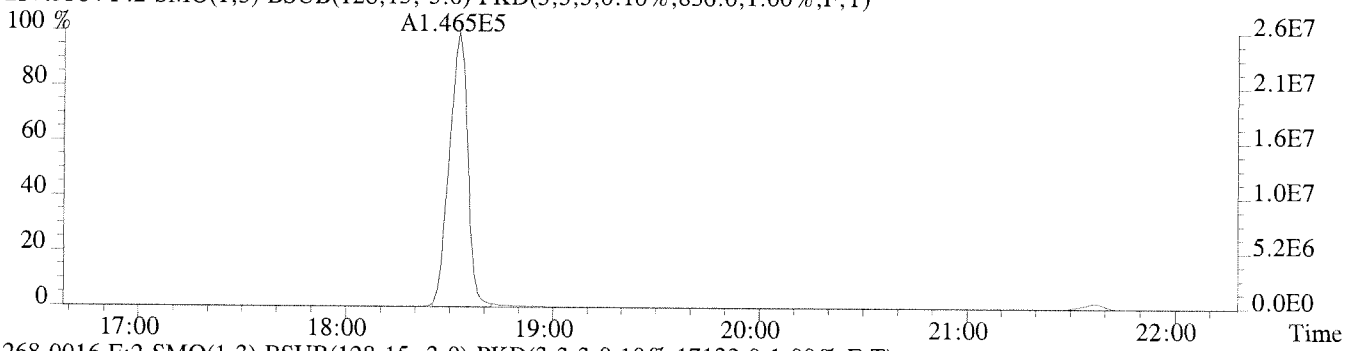


File:U139145 #1-313 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

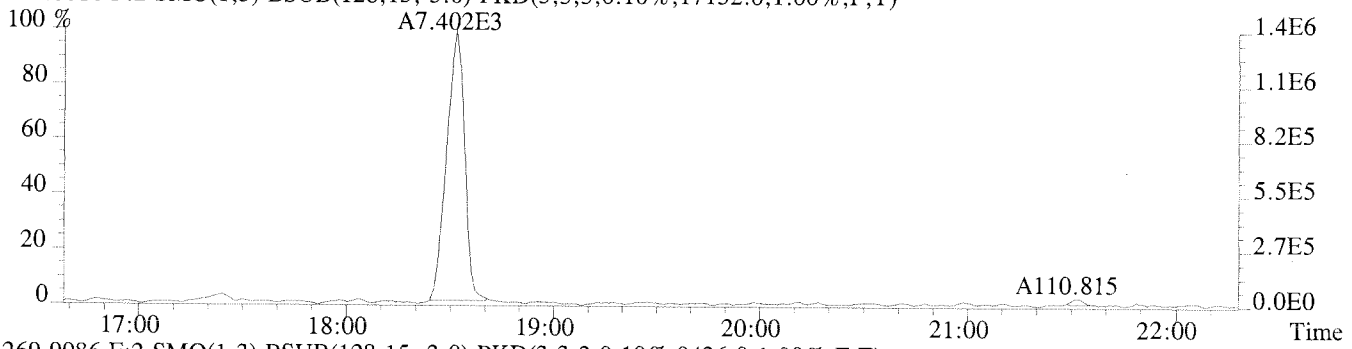
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,984.0,1.00%,F,T)



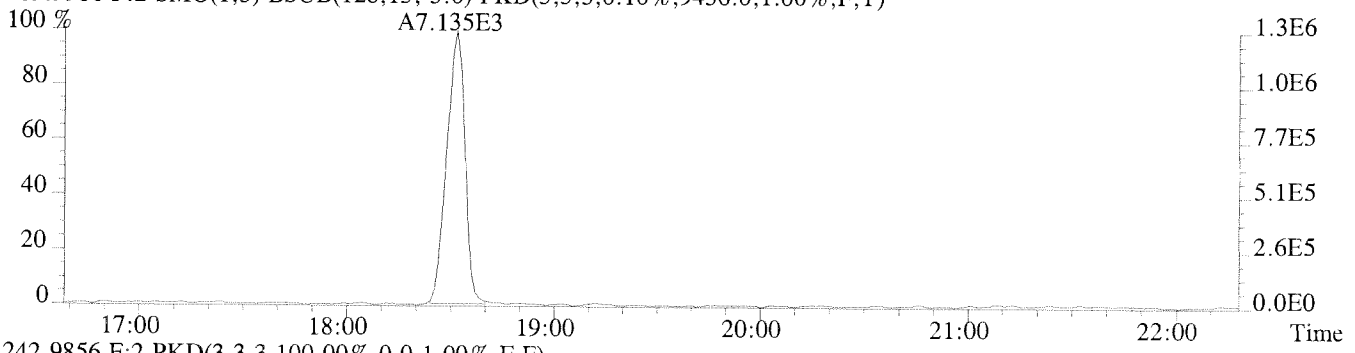
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,856.0,1.00%,F,T)



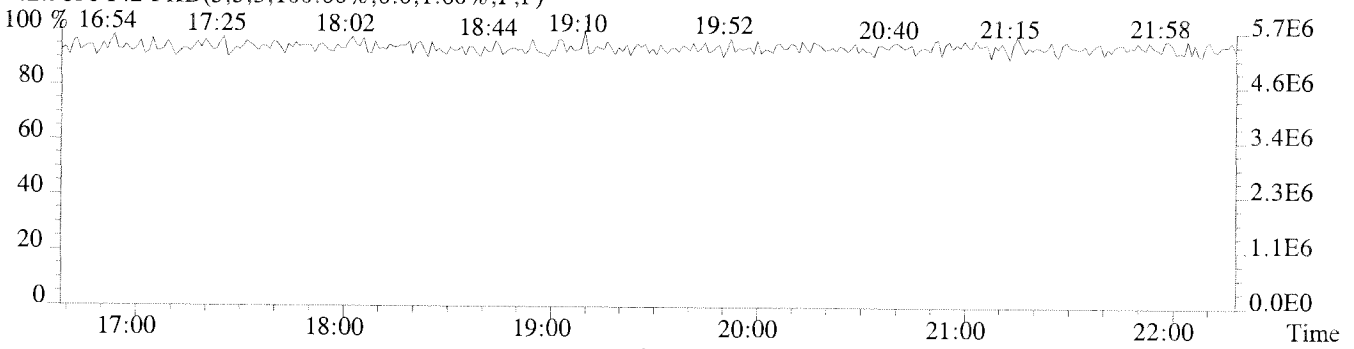
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,17132.0,1.00%,F,T)



269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9436.0,1.00%,F,T)

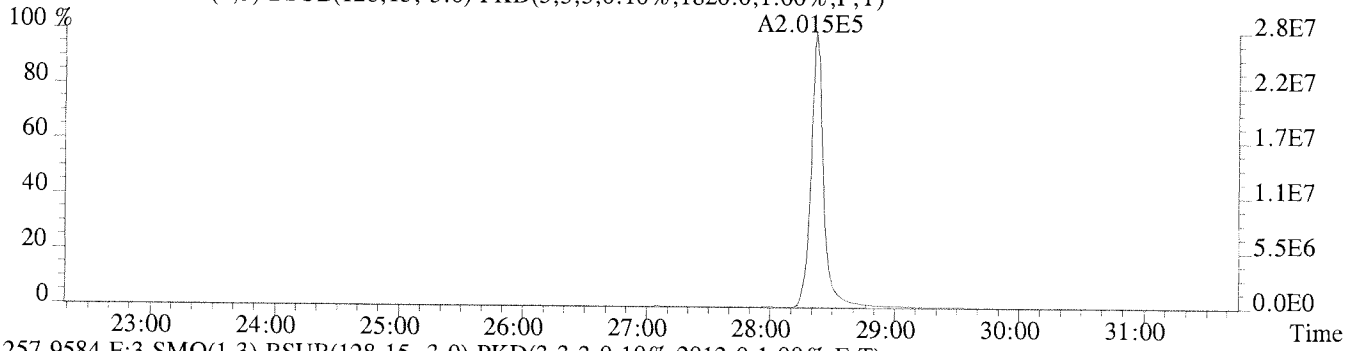


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

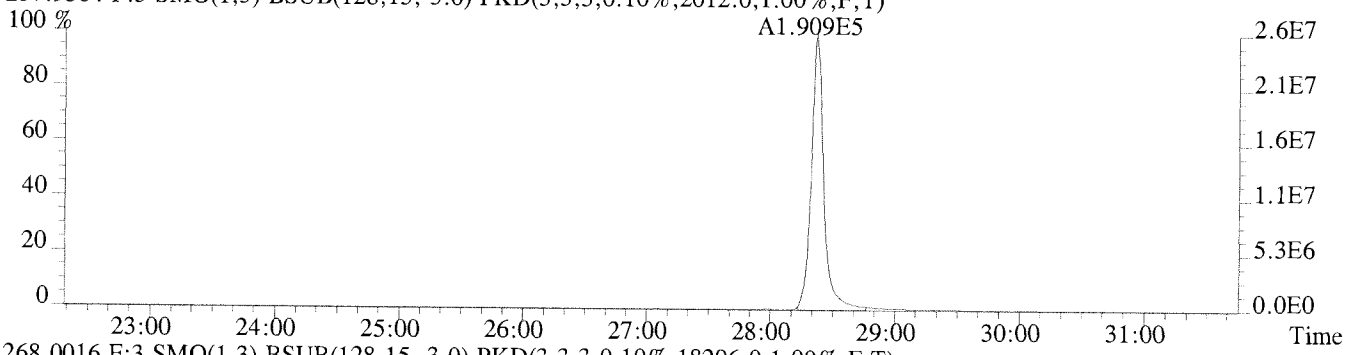


File:U139145 #1-604 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

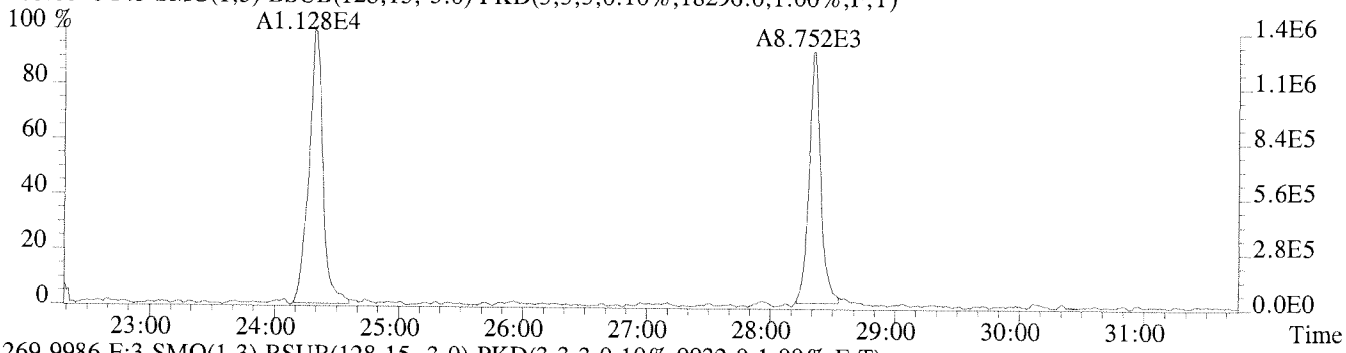
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1820.0,1.00%,F,T)



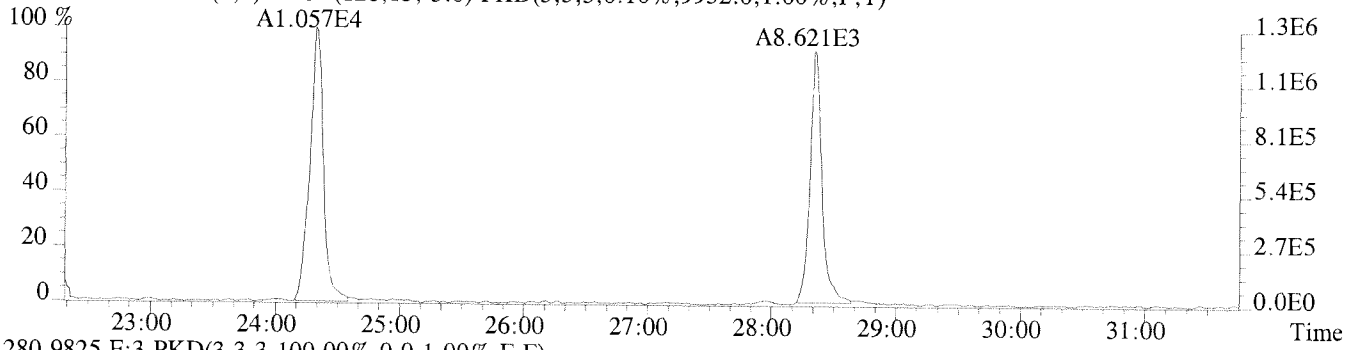
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2012.0,1.00%,F,T)



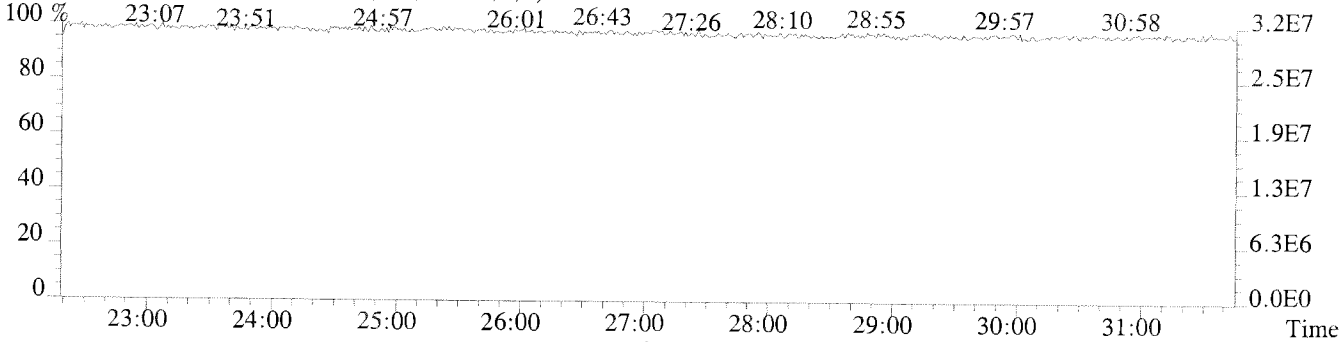
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18296.0,1.00%,F,T)



269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,9932.0,1.00%,F,T)

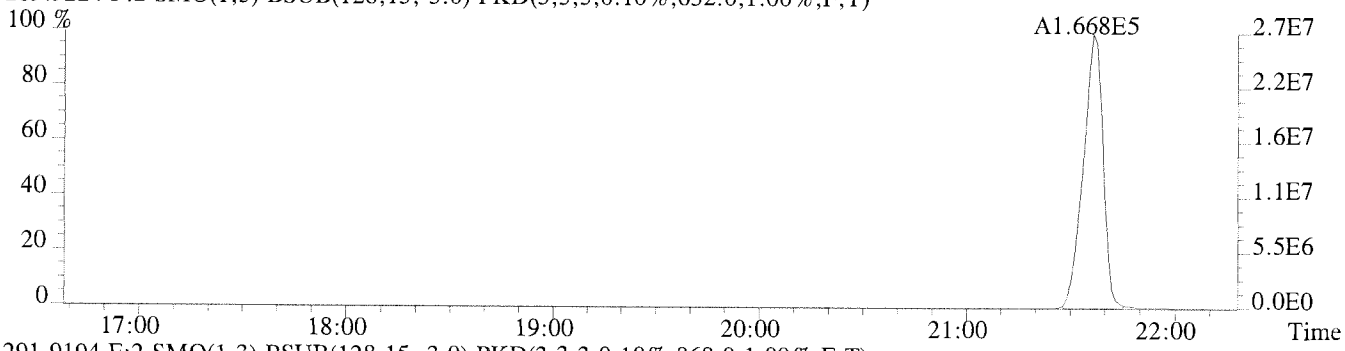


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

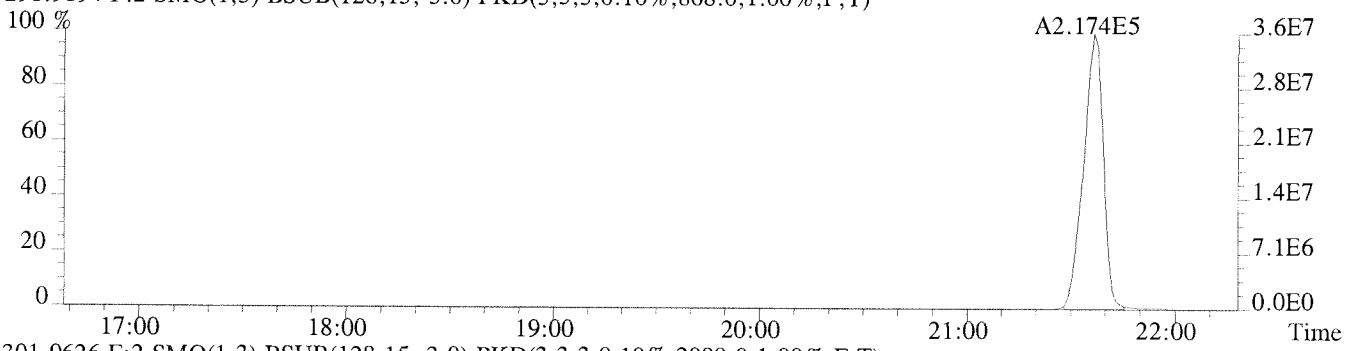


File:U139145 #1-313 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

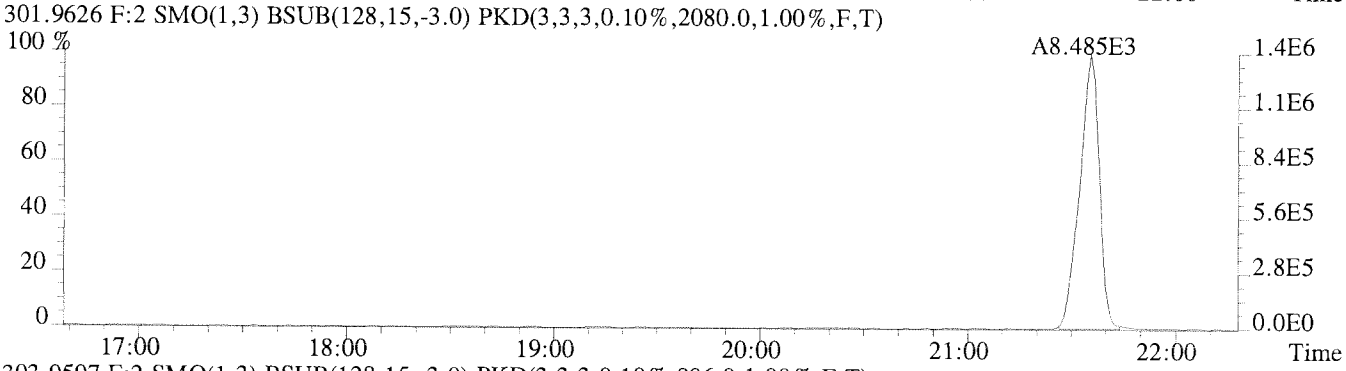
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,632.0,1.00%,F,T)



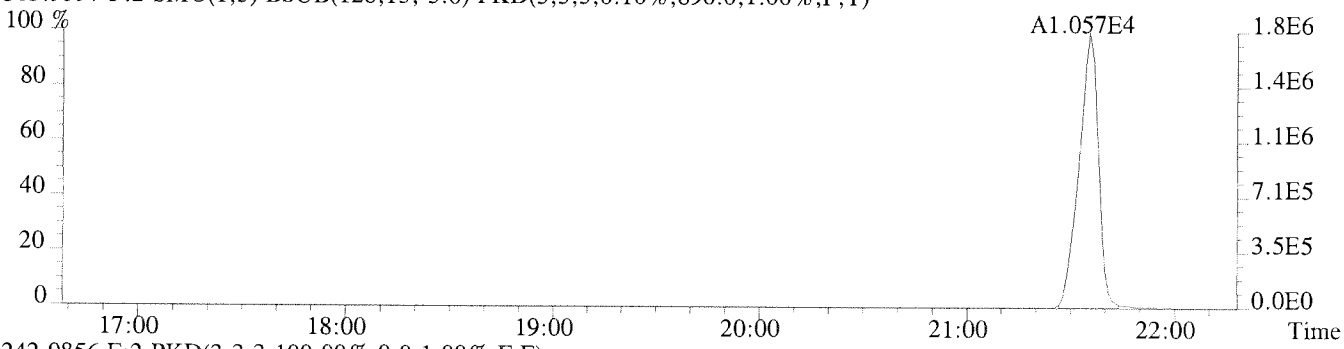
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868.0,1.00%,F,T)



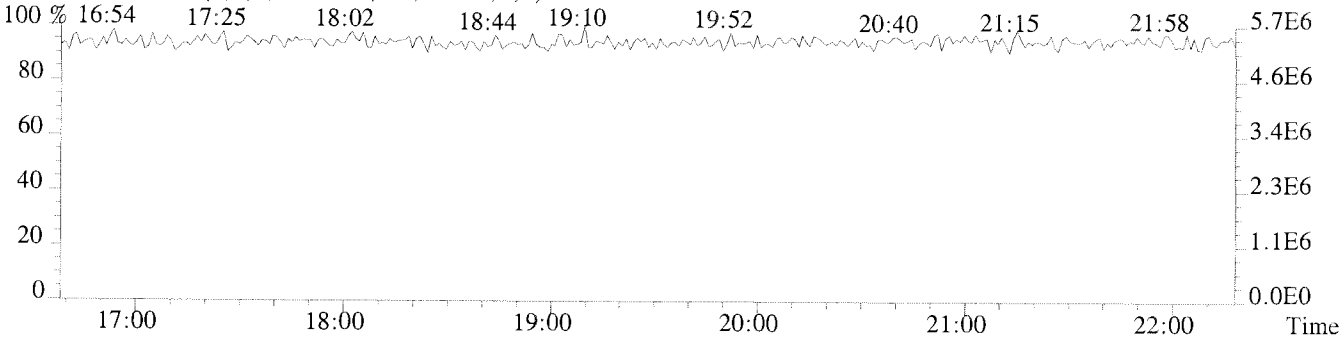
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2080.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,896.0,1.00%,F,T)

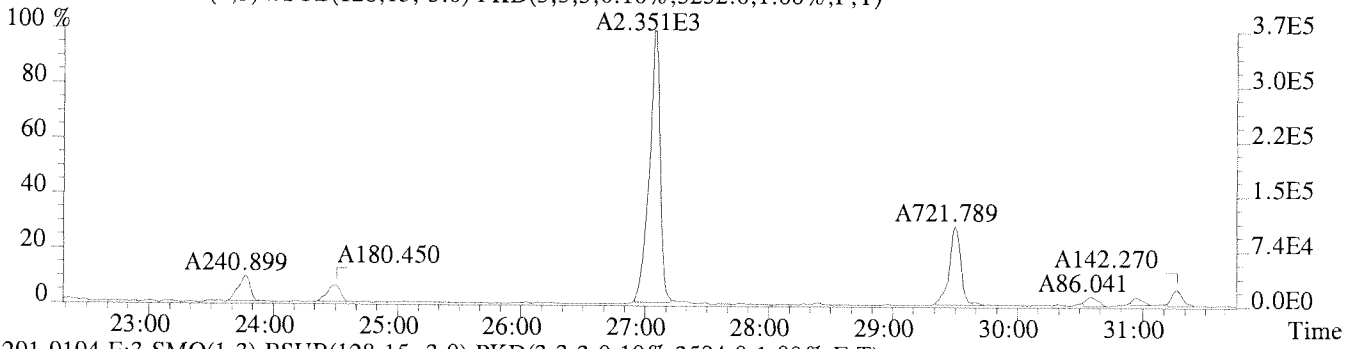


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

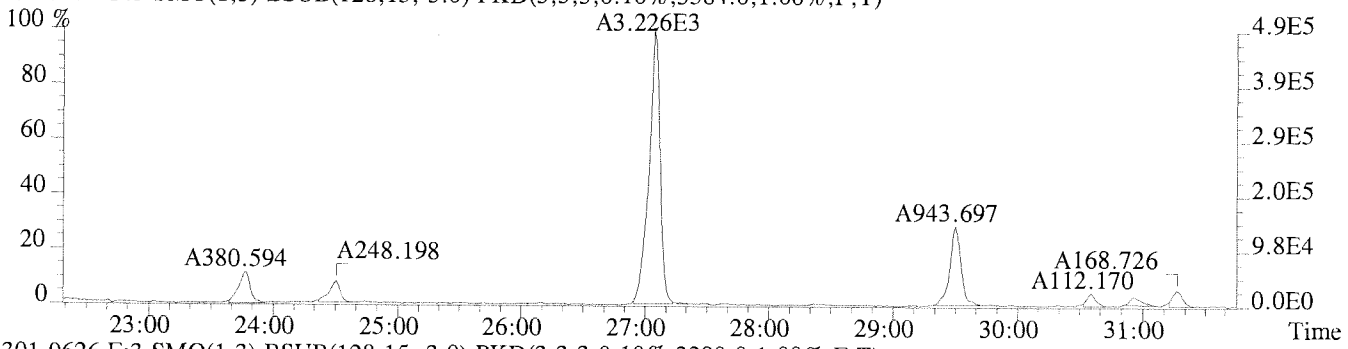


File:U139145 #1-604 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

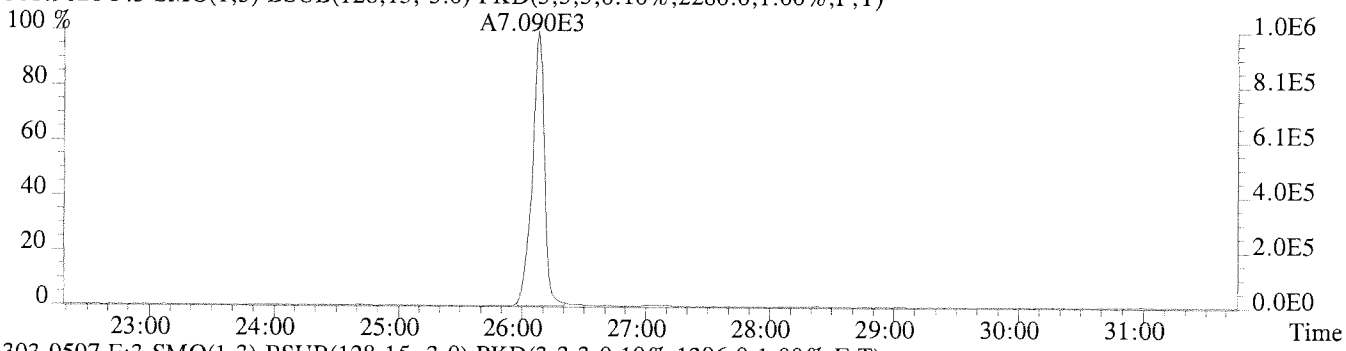
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3232.0,1.00%,F,T)



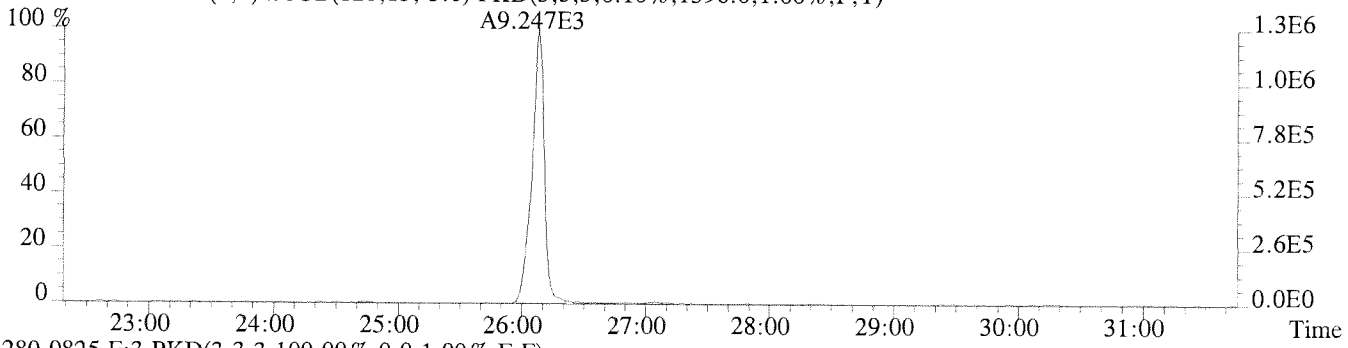
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3584.0,1.00%,F,T)



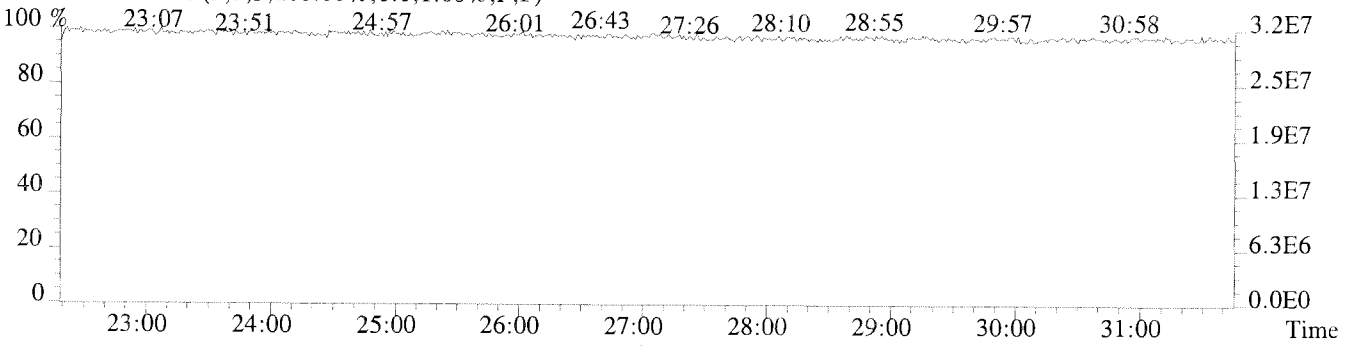
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2280.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1396.0,1.00%,F,T)

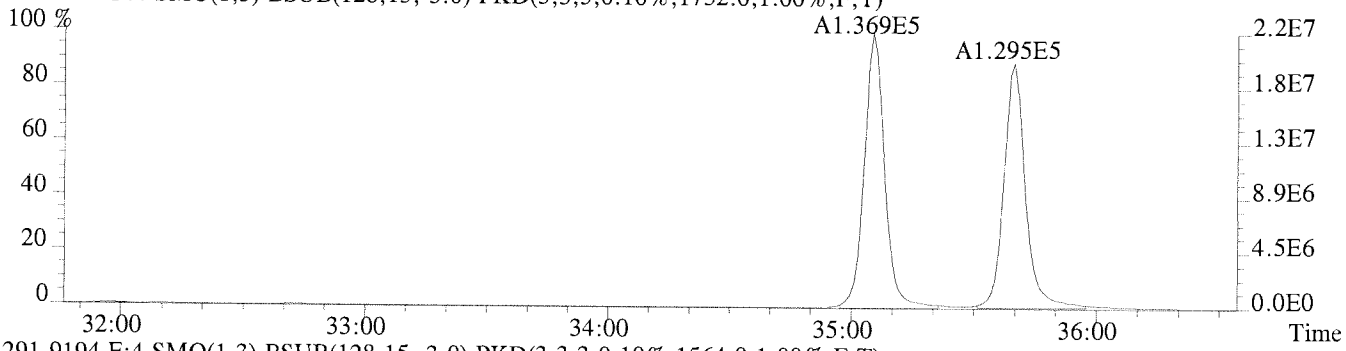


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

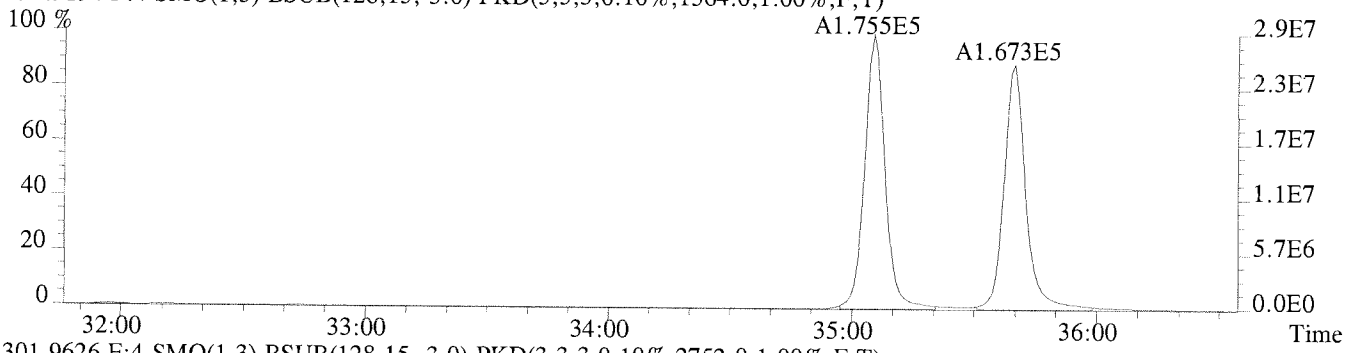


File:U139145 #1-308 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

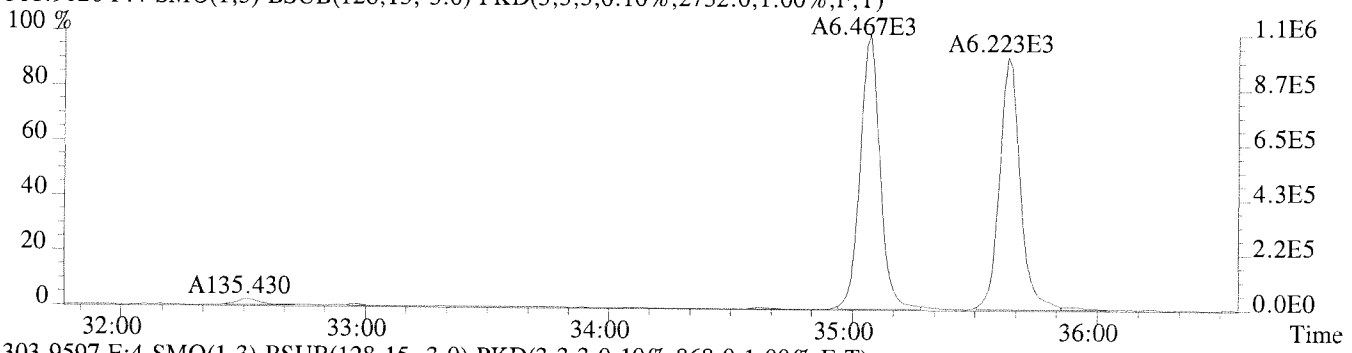
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1752.0,1.00%,F,T)



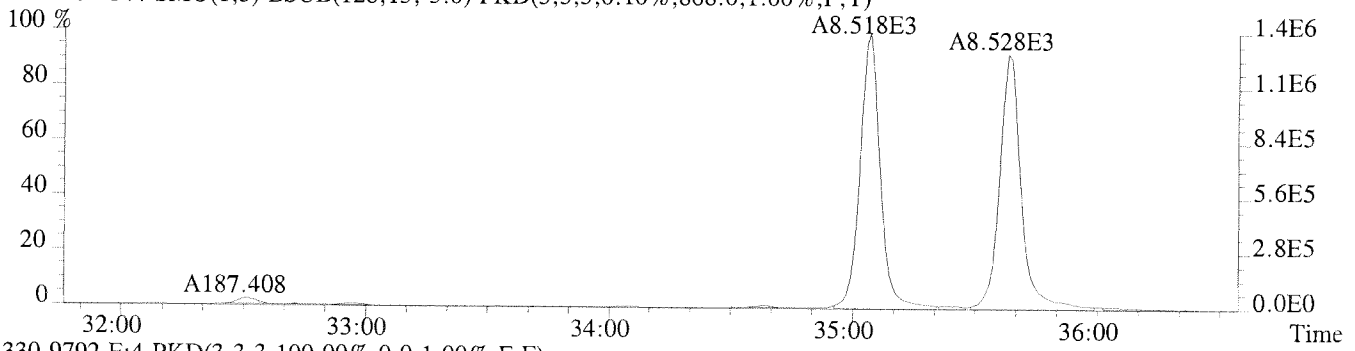
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1564.0,1.00%,F,T)



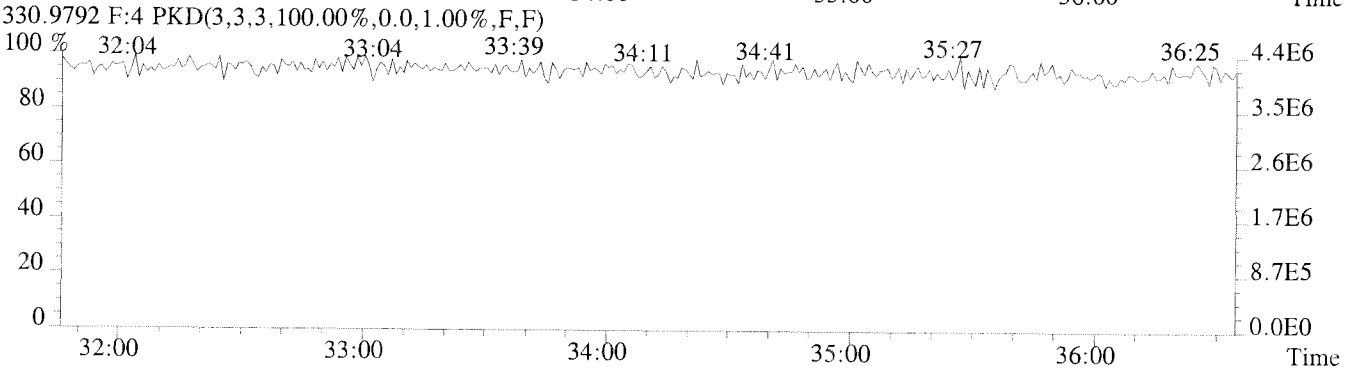
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2752.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868.0,1.00%,F,T)

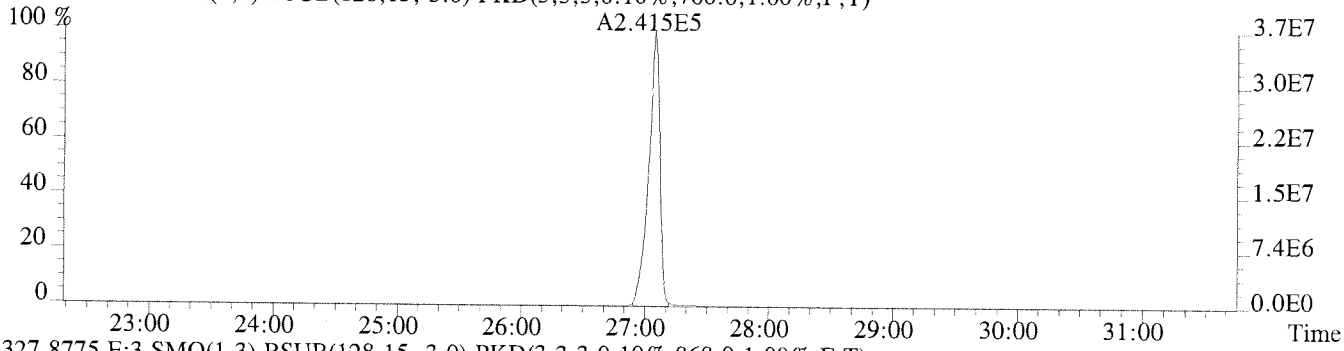


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

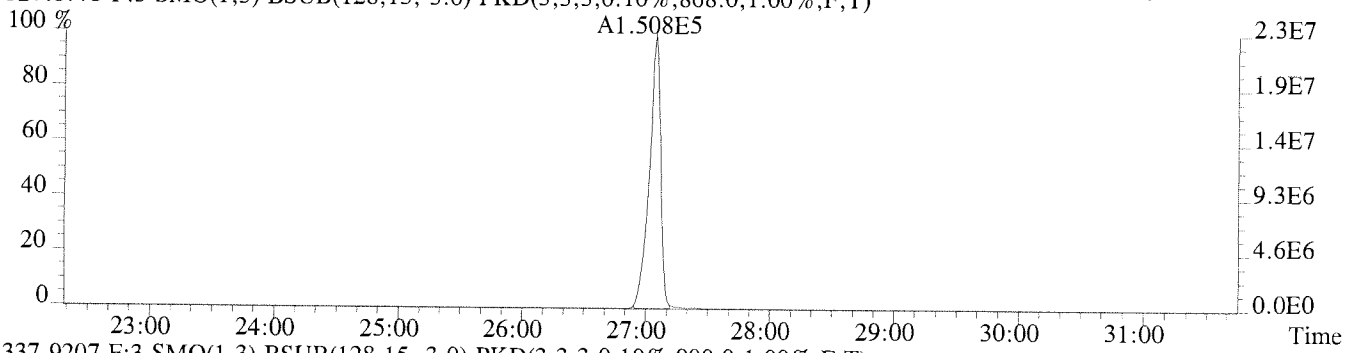


File:U139145 #1-604 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

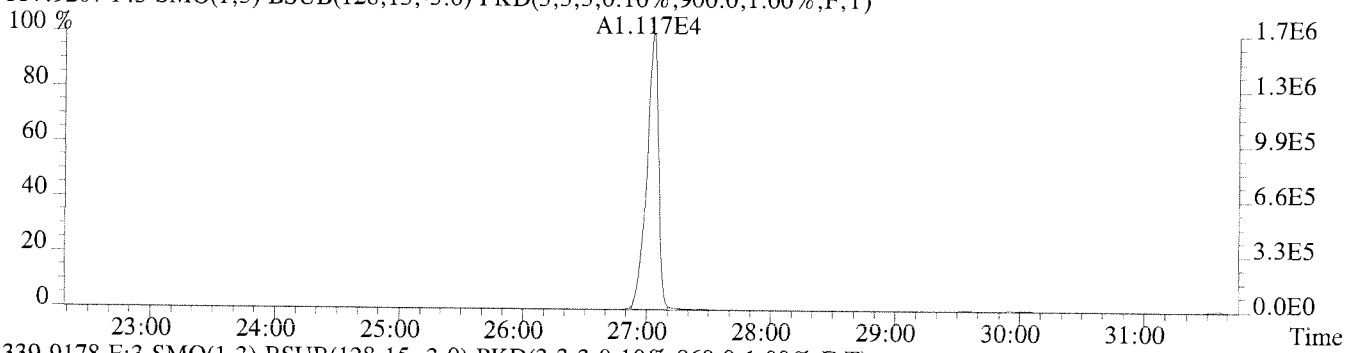
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,760.0,1.00%,F,T)



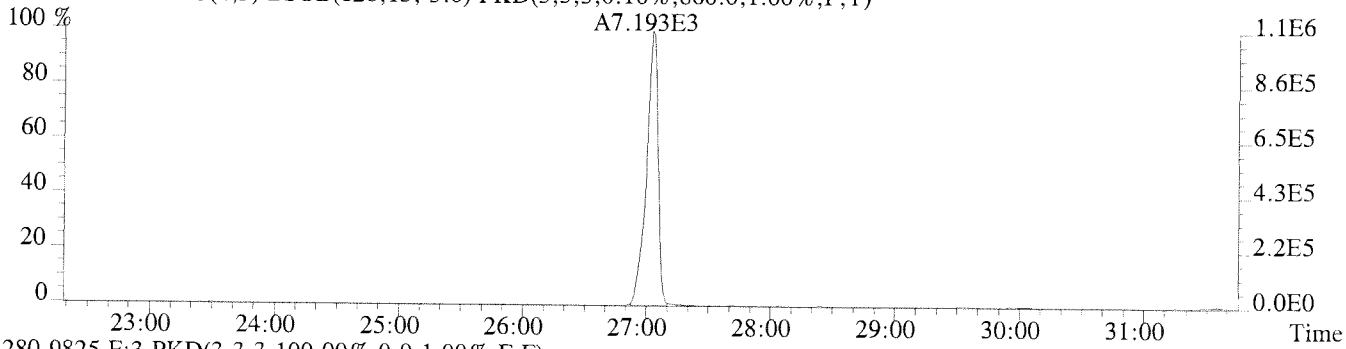
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,868.0,1.00%,F,T)



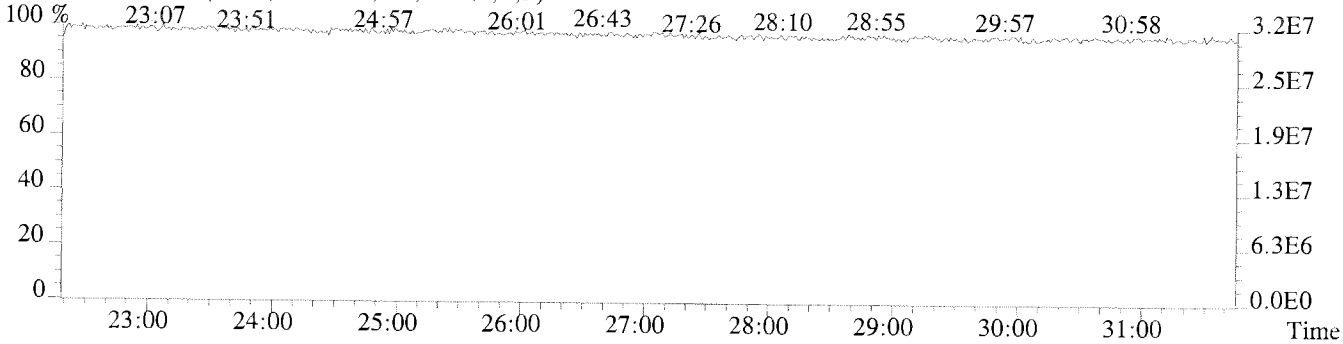
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,900.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,860.0,1.00%,F,T)

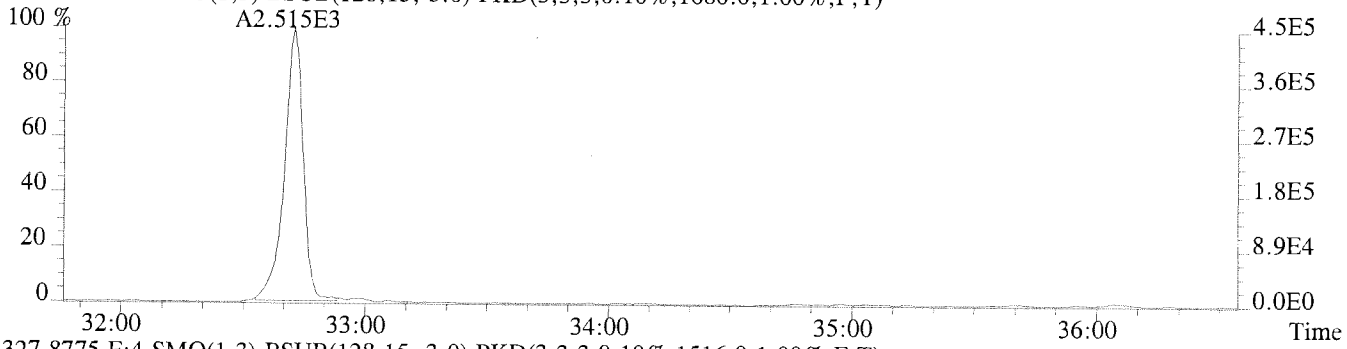


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

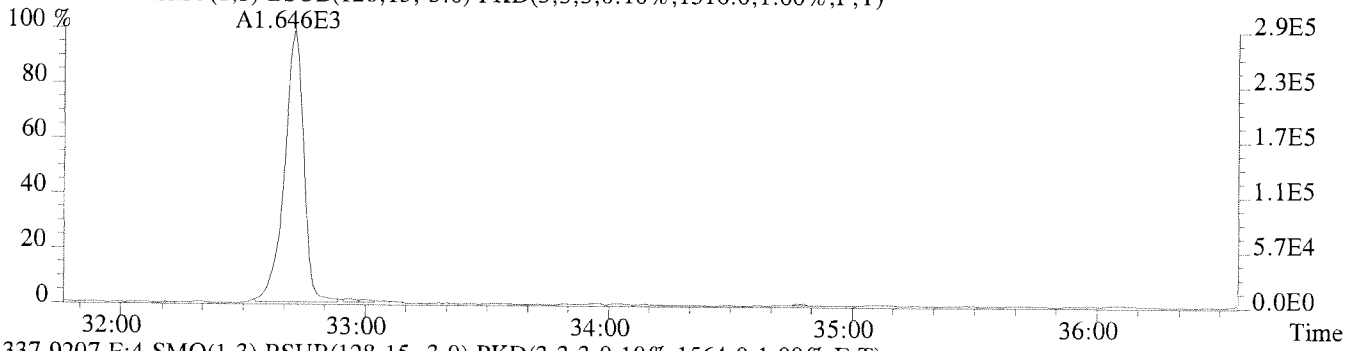


File:U139145 #1-308 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

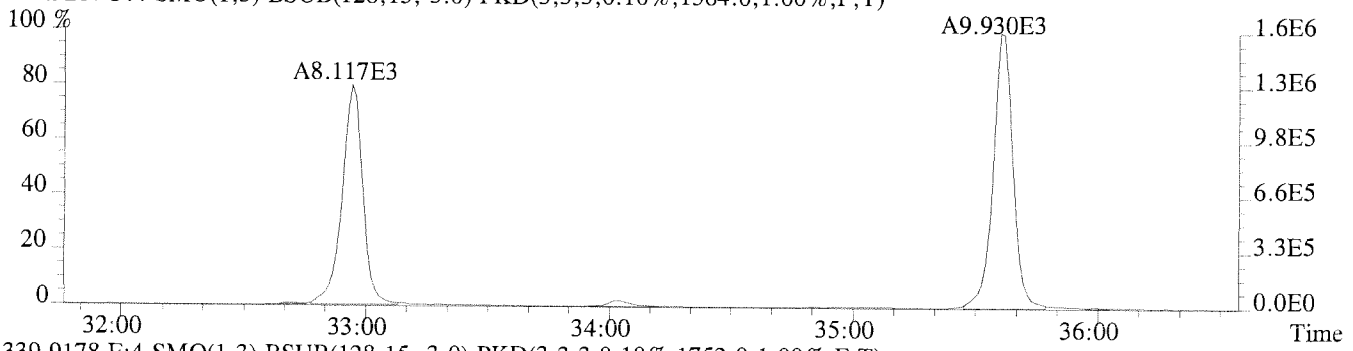
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1680.0,1.00%,F,T)



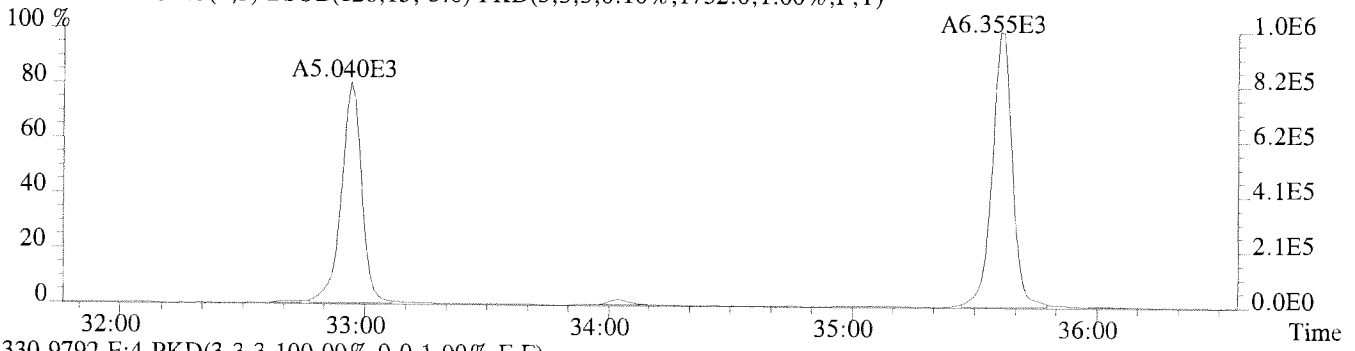
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1516.0,1.00%,F,T)



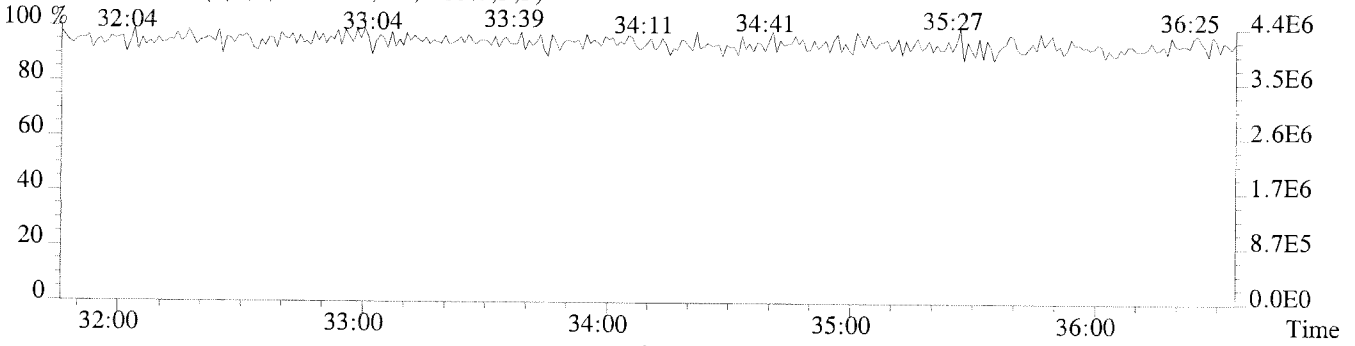
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1564.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1752.0,1.00%,F,T)

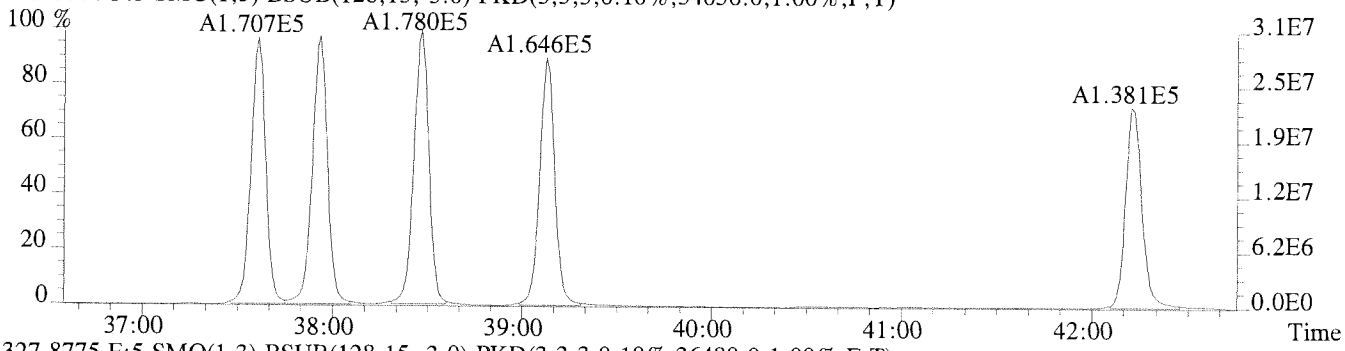


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

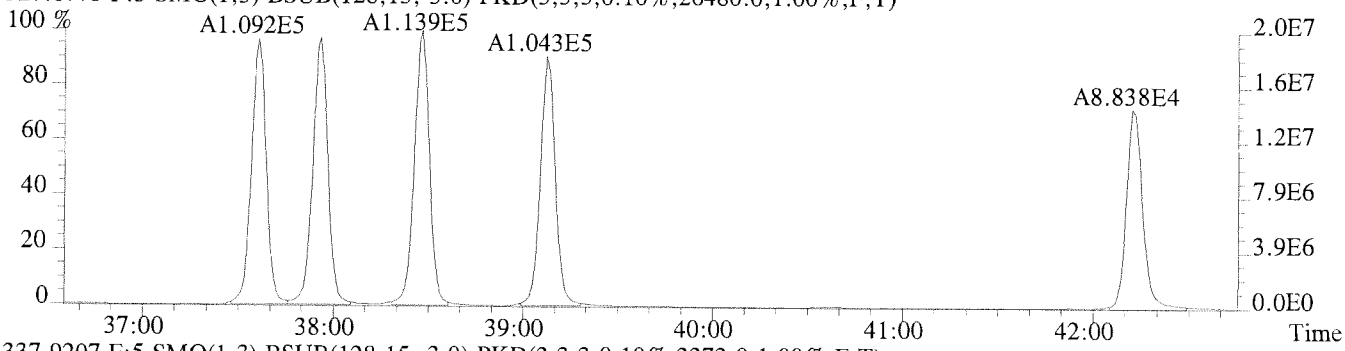


File:U139145 #1-395 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

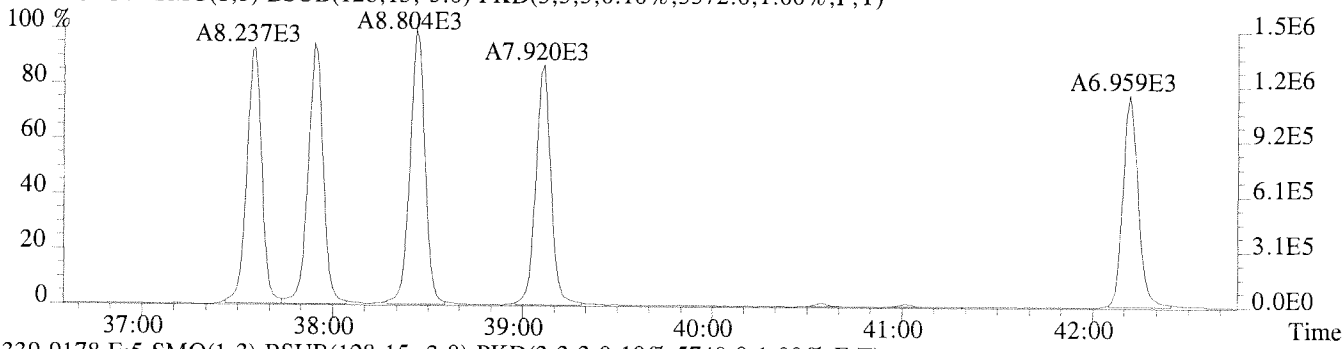
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,54056.0,1.00%,F,T)



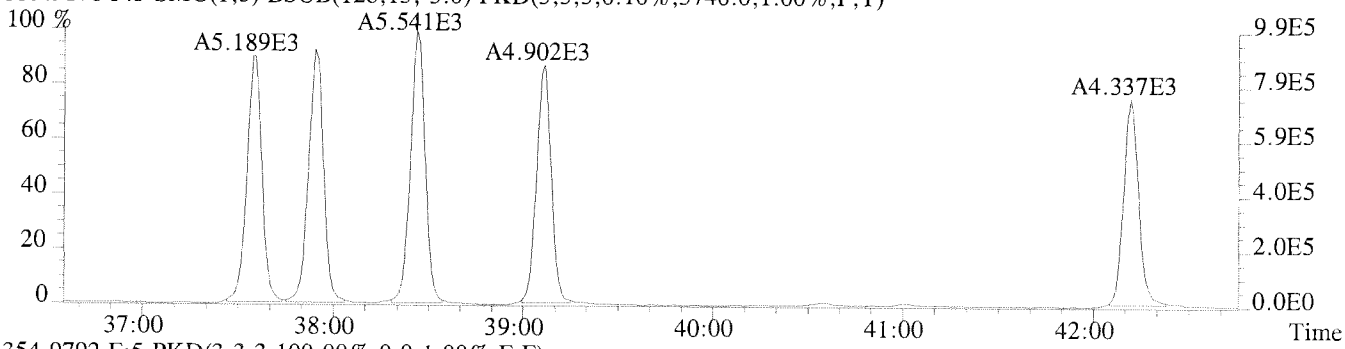
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,26480.0,1.00%,F,T)



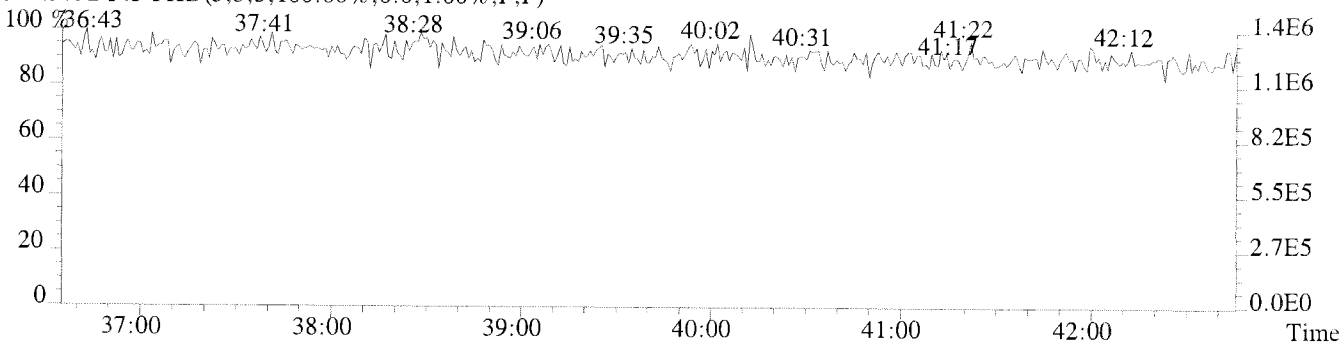
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3372.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5740.0,1.00%,F,T)

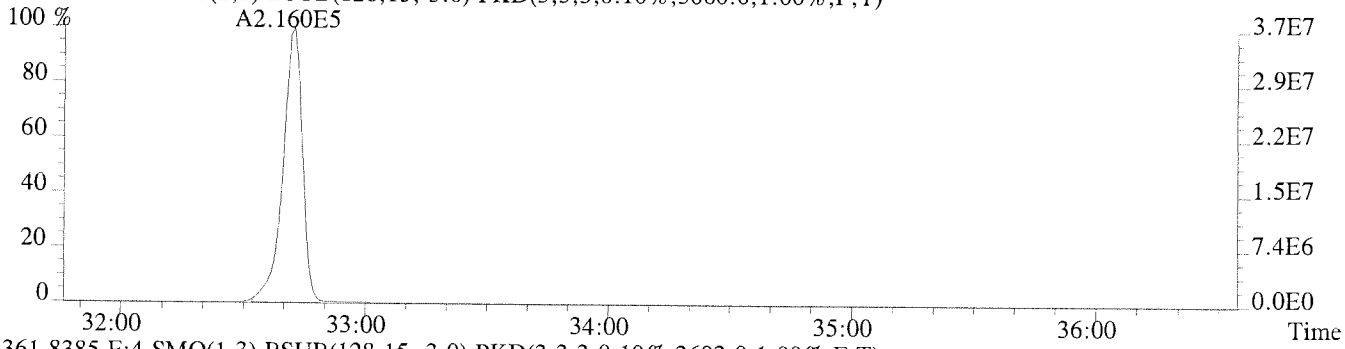


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

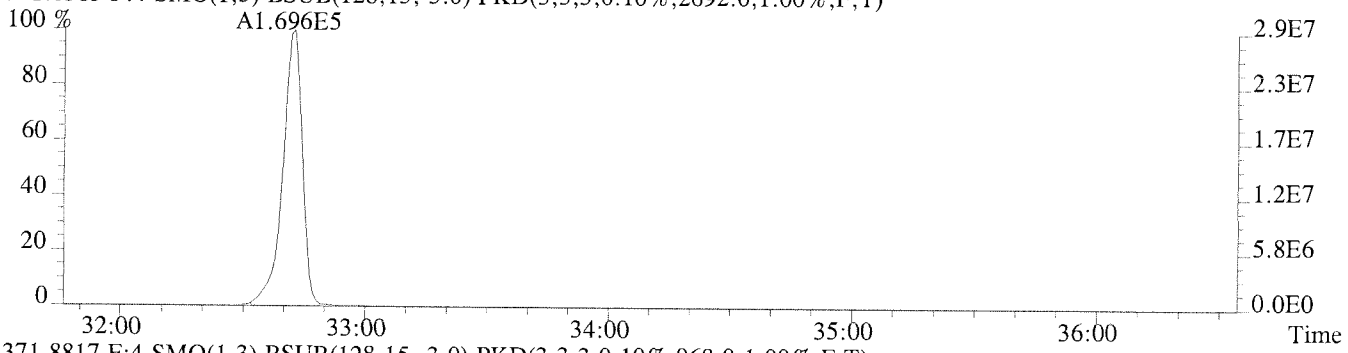


File:U139145 #1-308 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

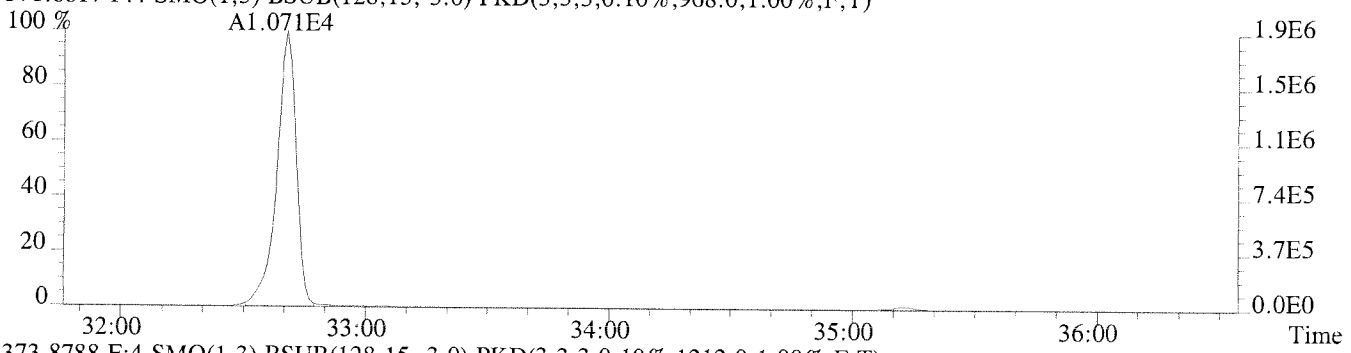
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5060.0,1.00%,F,T)



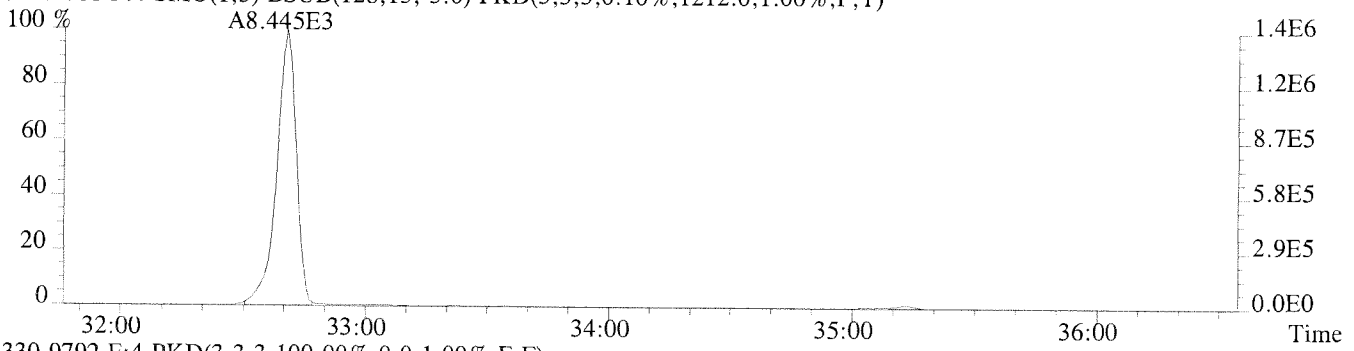
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2692.0,1.00%,F,T)



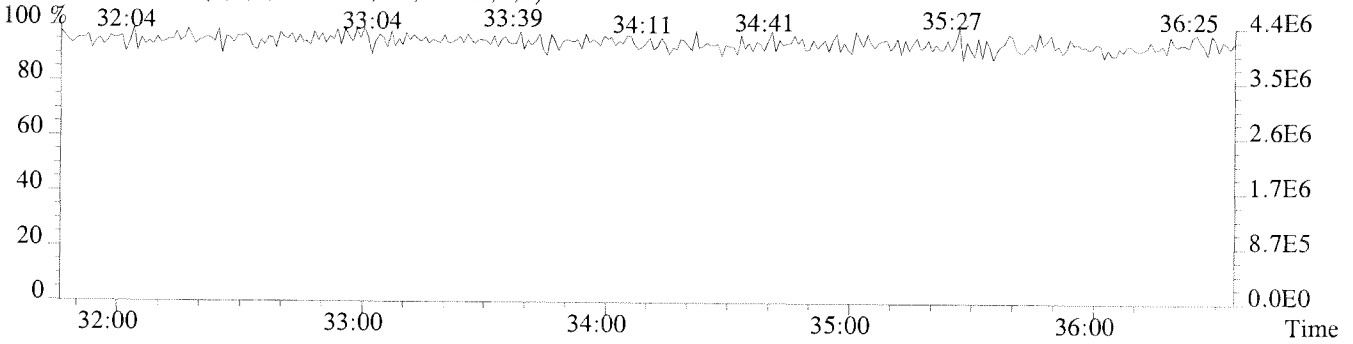
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,968.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1212.0,1.00%,F,T)

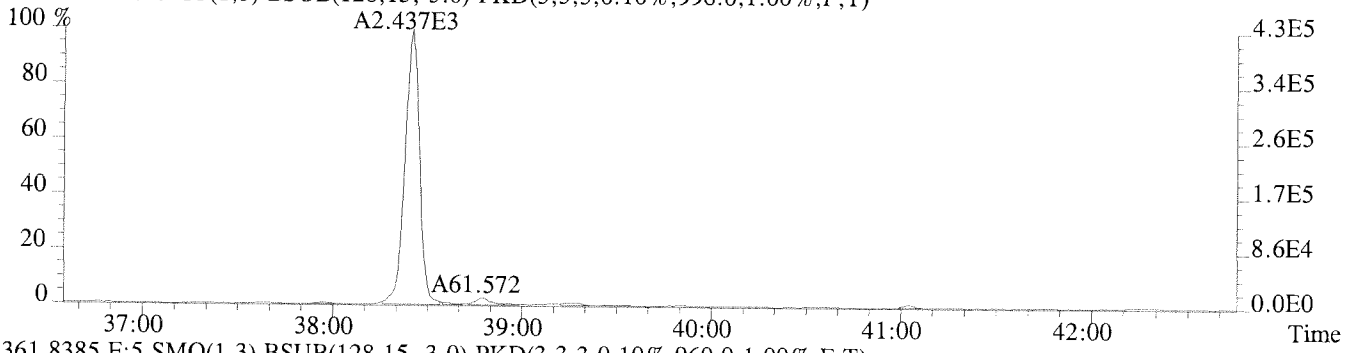


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

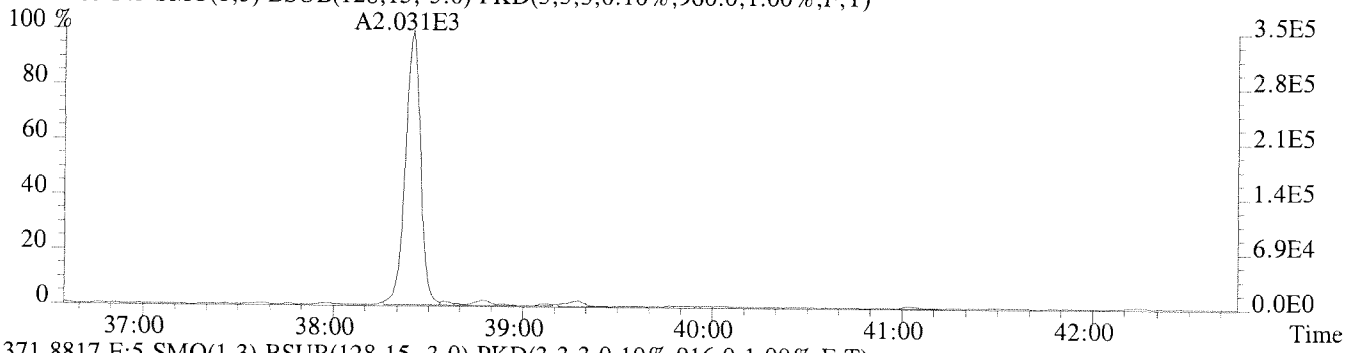


File:U139145 #1-395 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

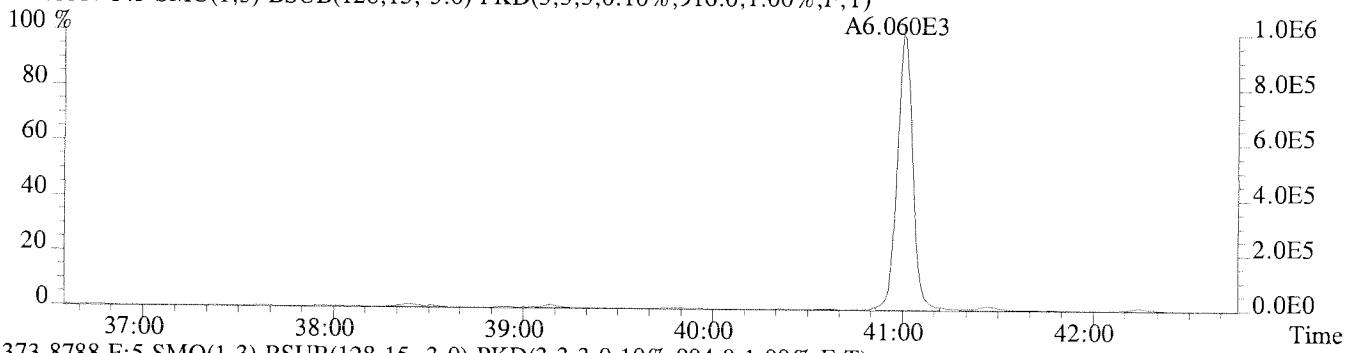
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,996.0,1.00%,F,T)



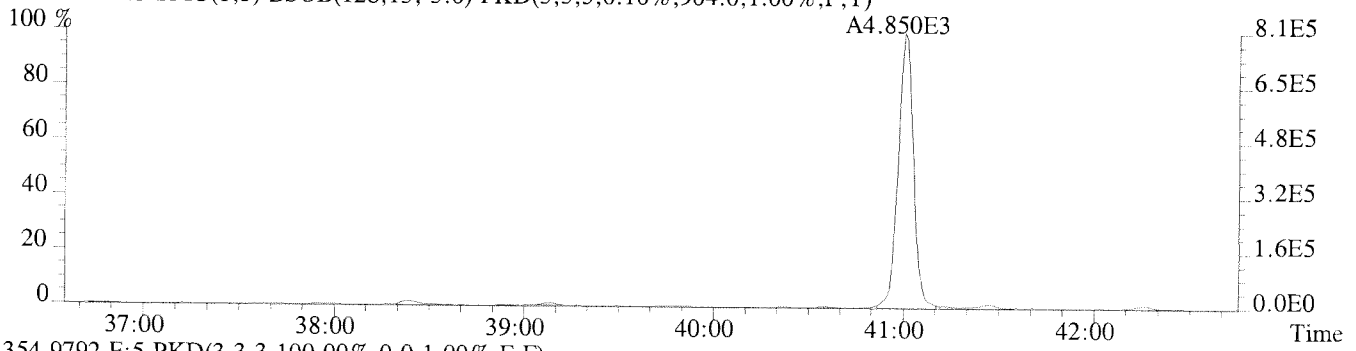
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,960.0,1.00%,F,T)



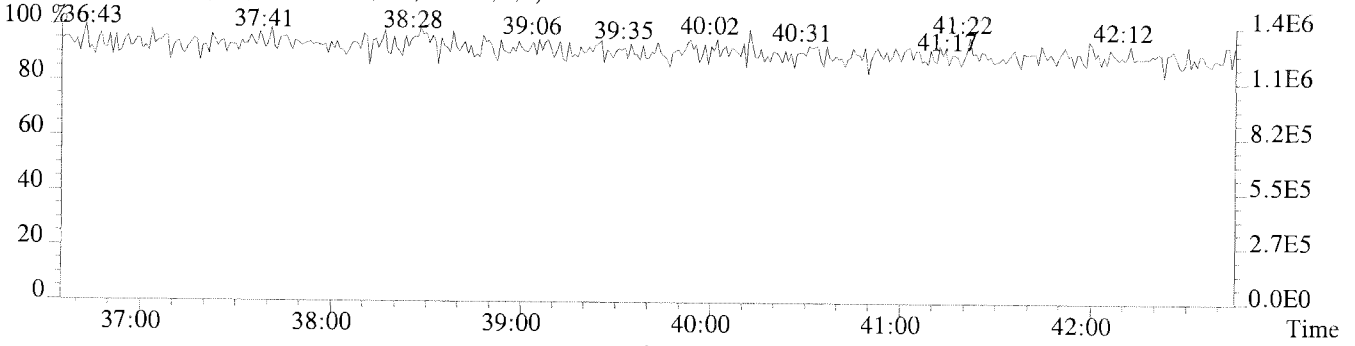
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,916.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)

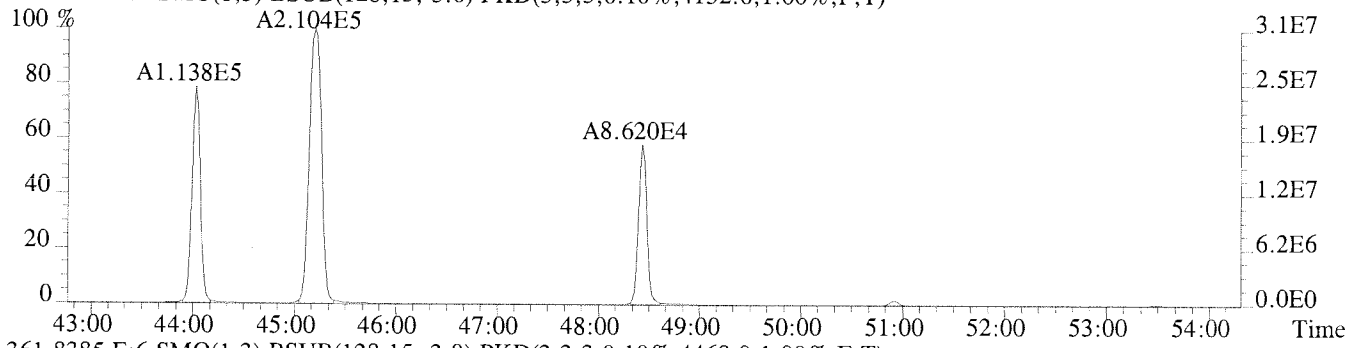


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

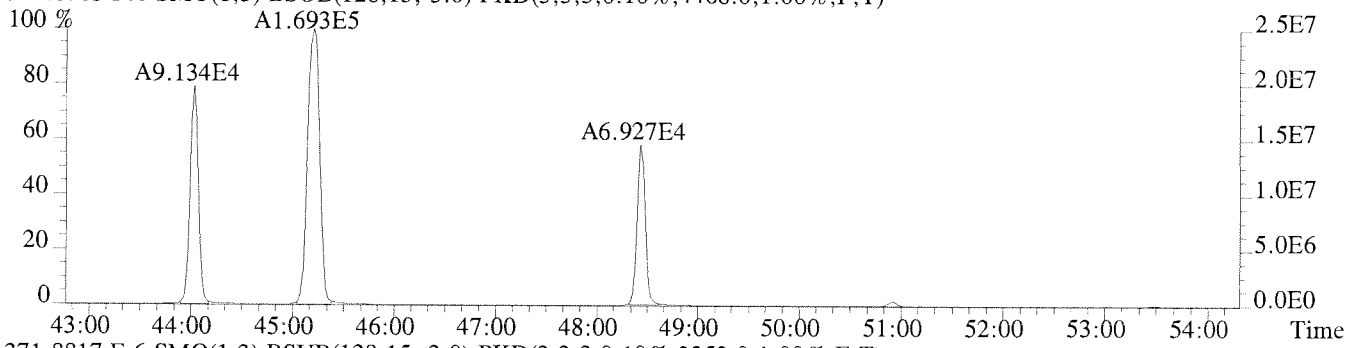


File:U139145 #1-572 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

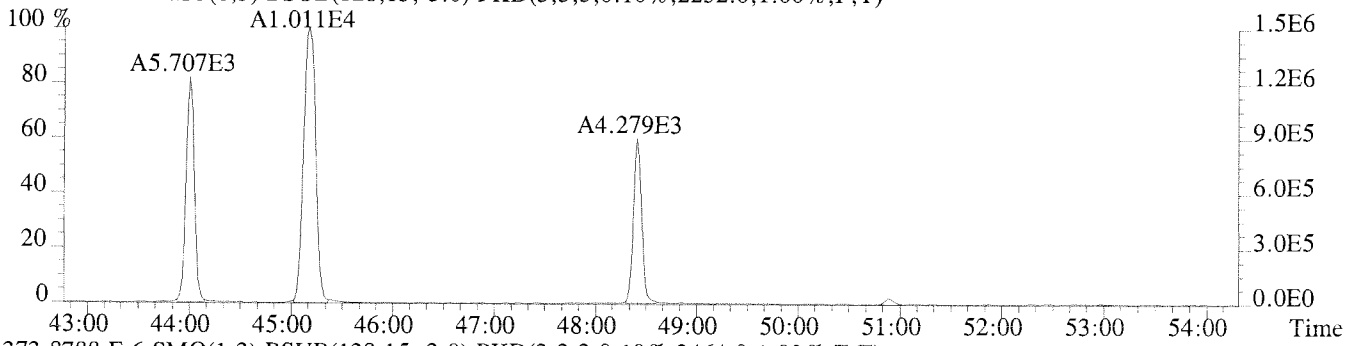
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4152.0,1.00%,F,T)



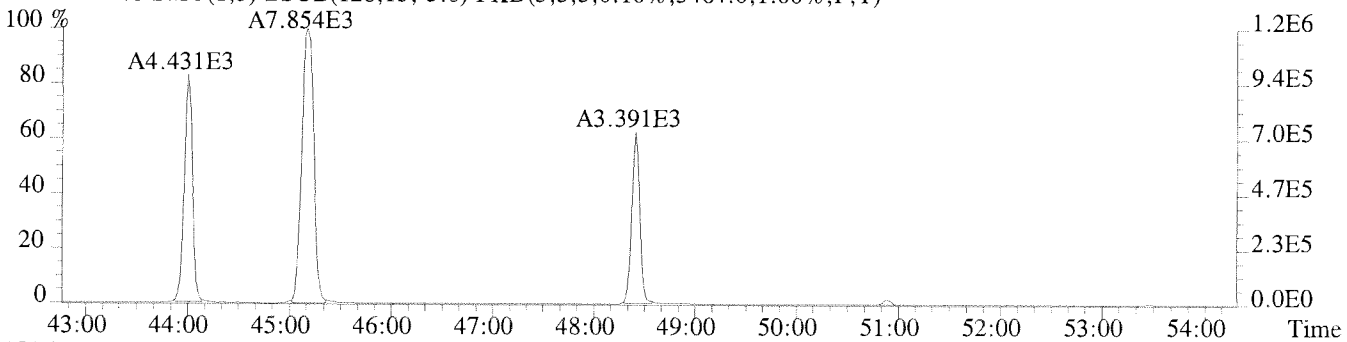
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4468.0,1.00%,F,T)



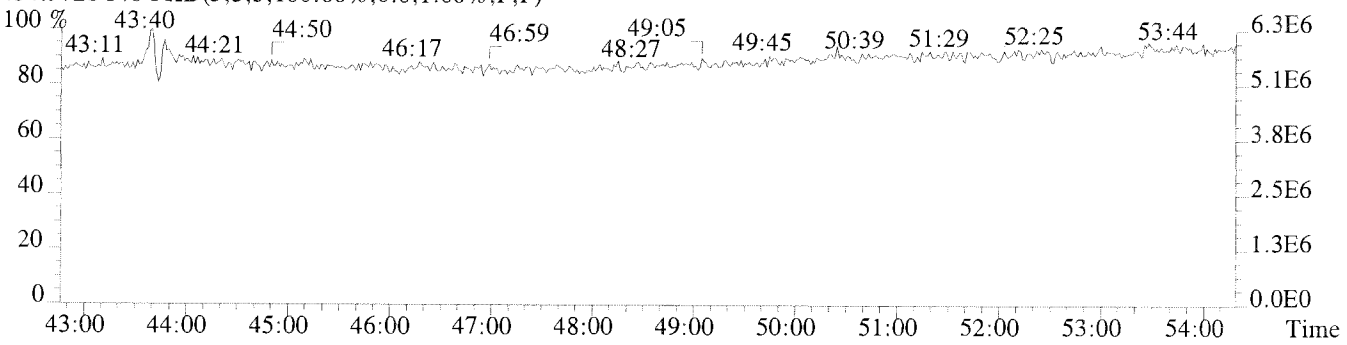
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2252.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3464.0,1.00%,F,T)

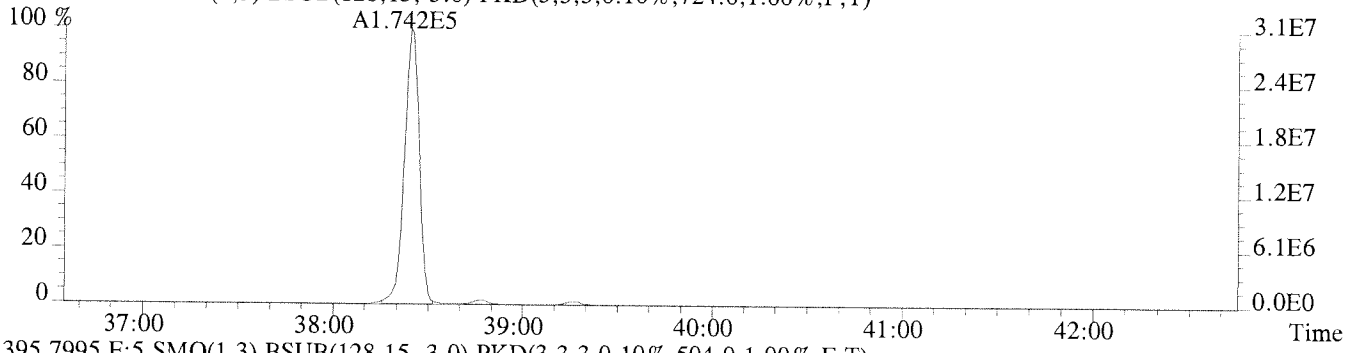


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

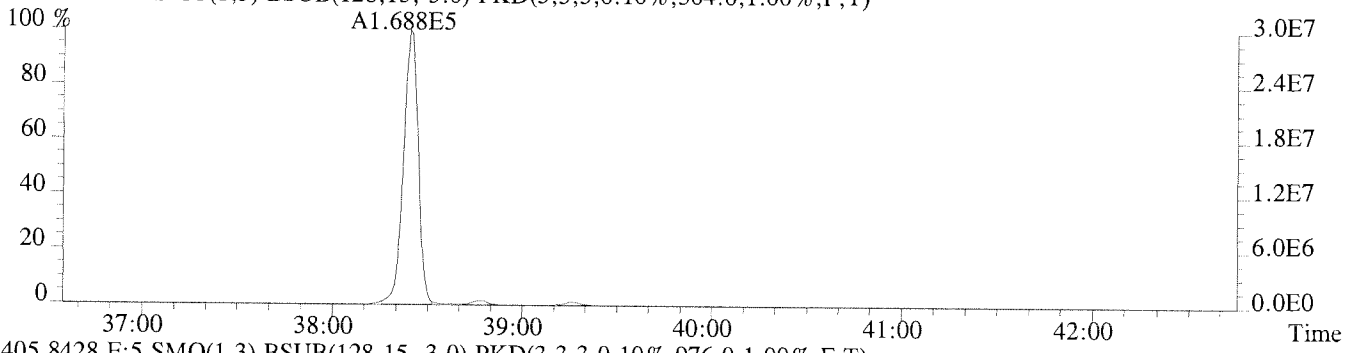


File:U139145 #1-395 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

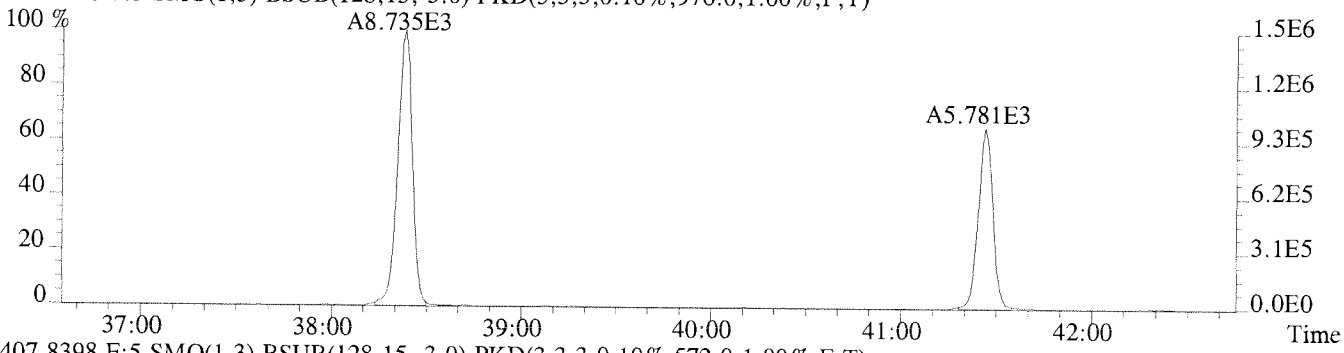
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



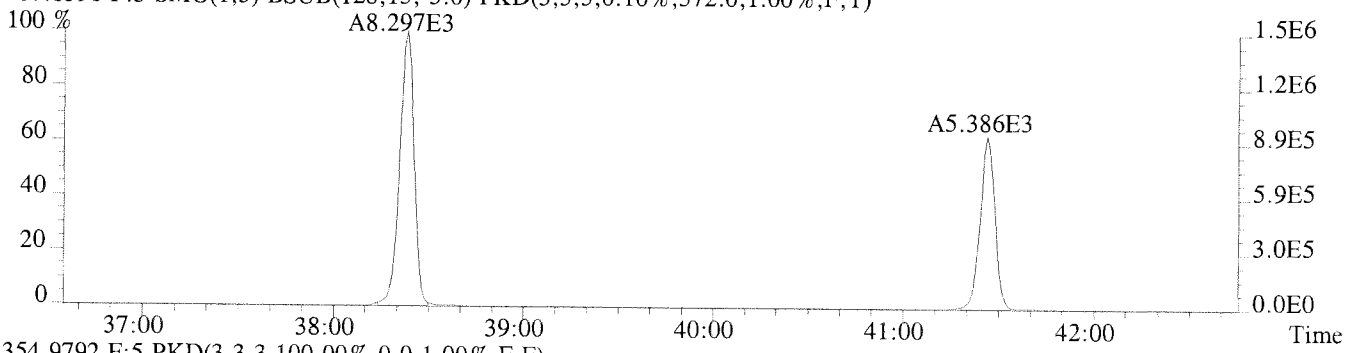
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,504.0,1.00%,F,T)



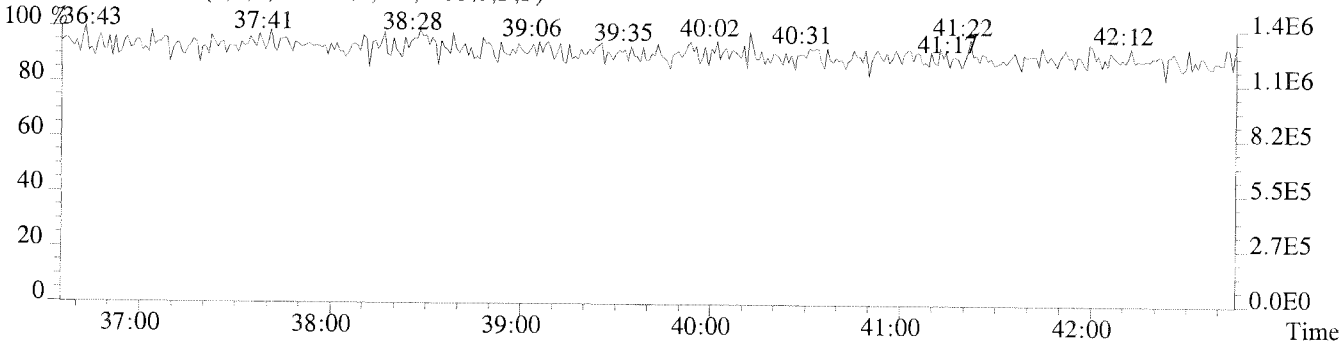
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,572.0,1.00%,F,T)

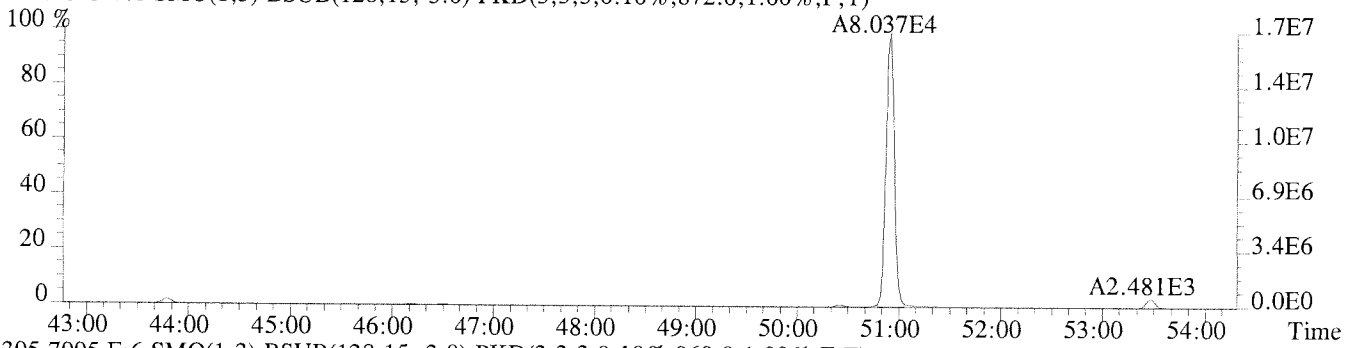


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

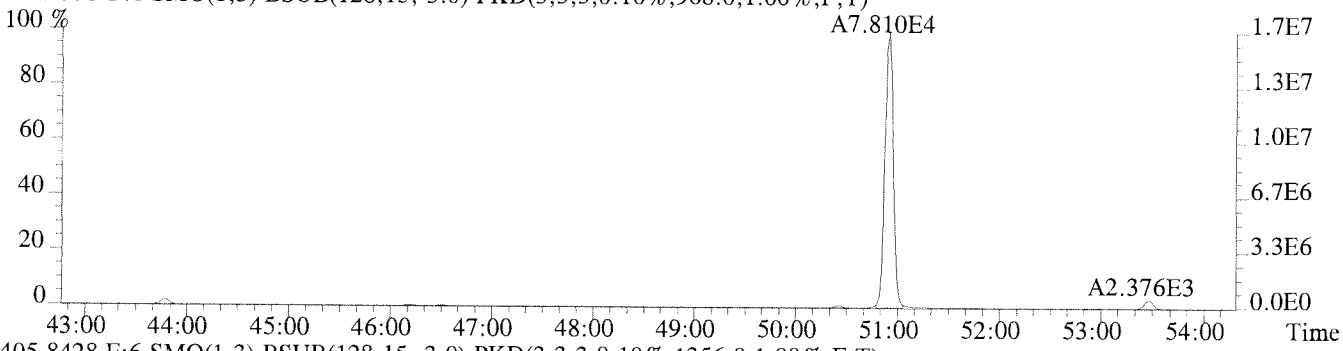


File:U139145 #1-572 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

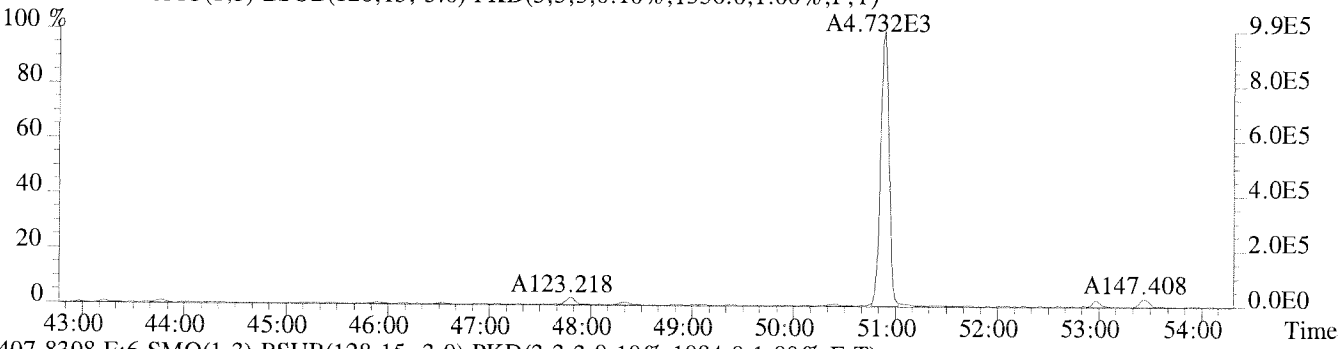
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



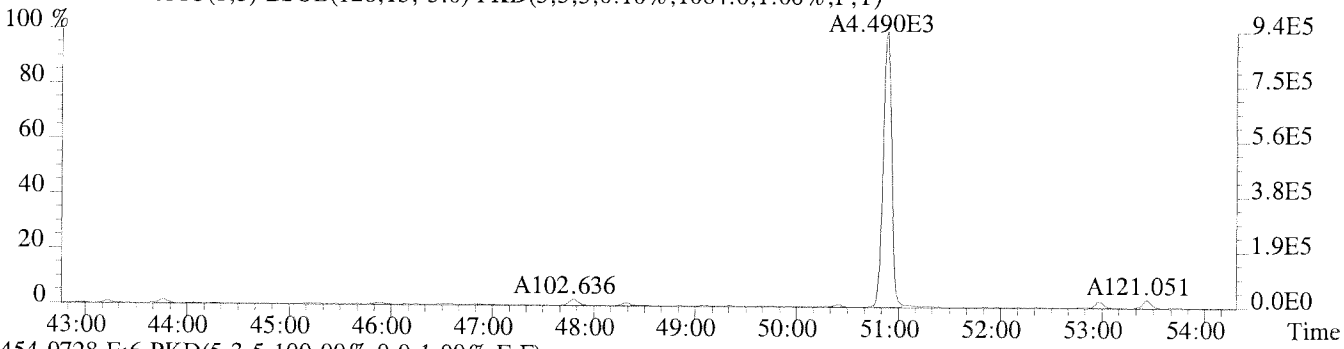
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,968.0,1.00%,F,T)



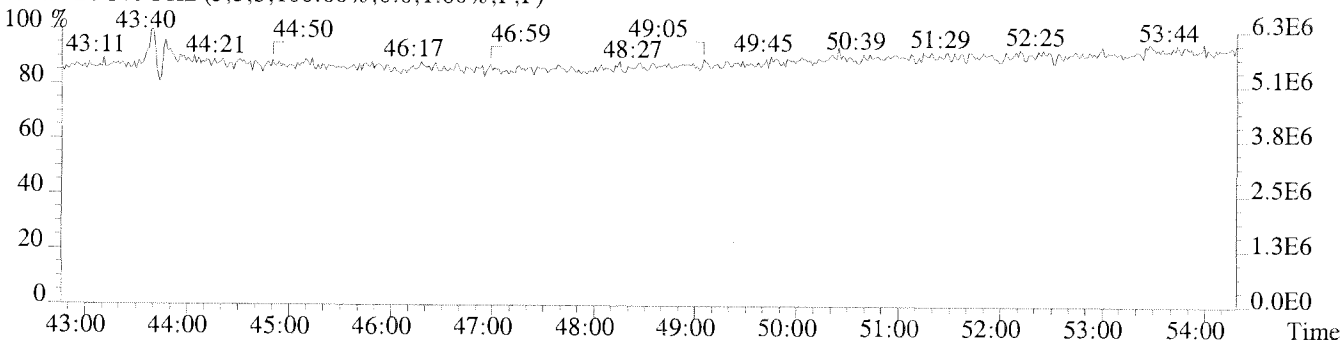
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1356.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1084.0,1.00%,F,T)

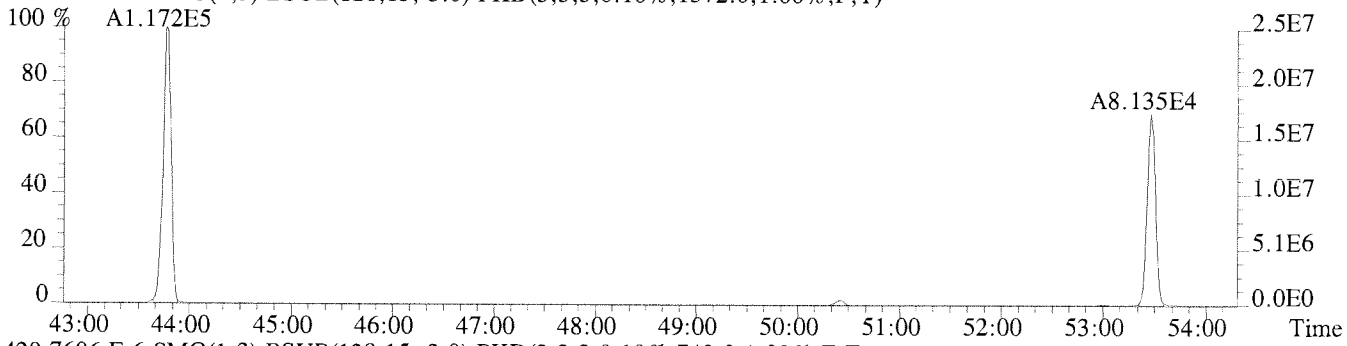


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

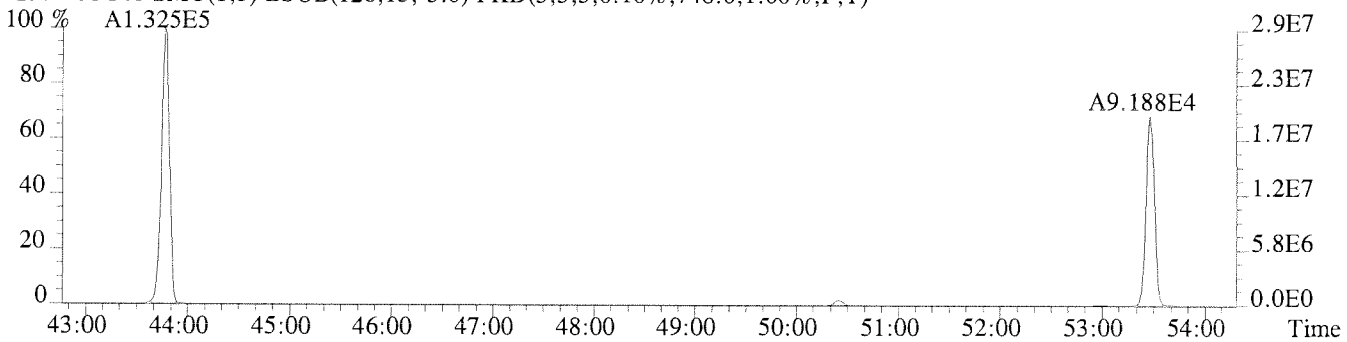


File:U139145 #1-572 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

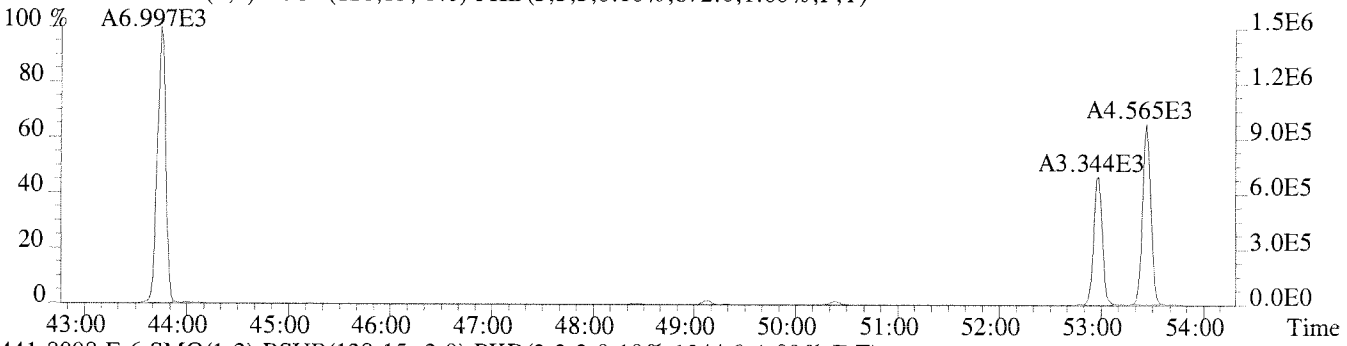
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1572.0,1.00%,F,T)



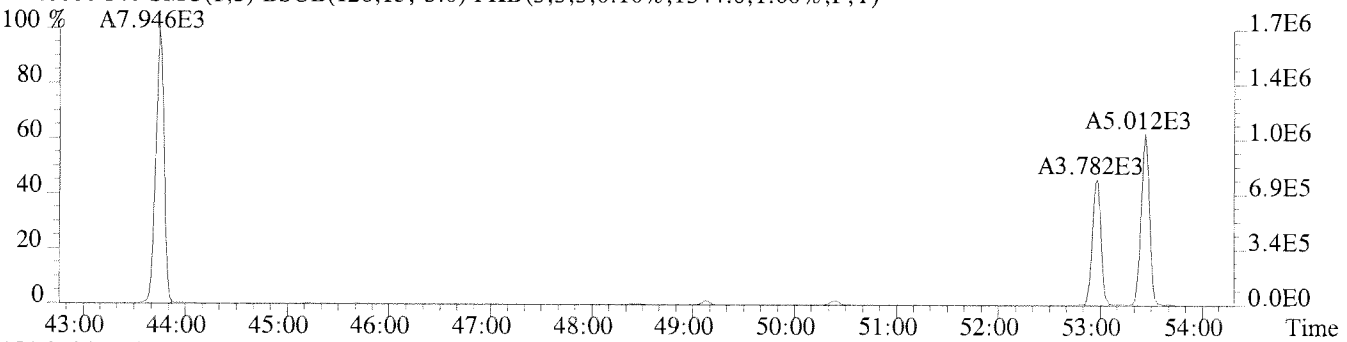
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,748.0,1.00%,F,T)



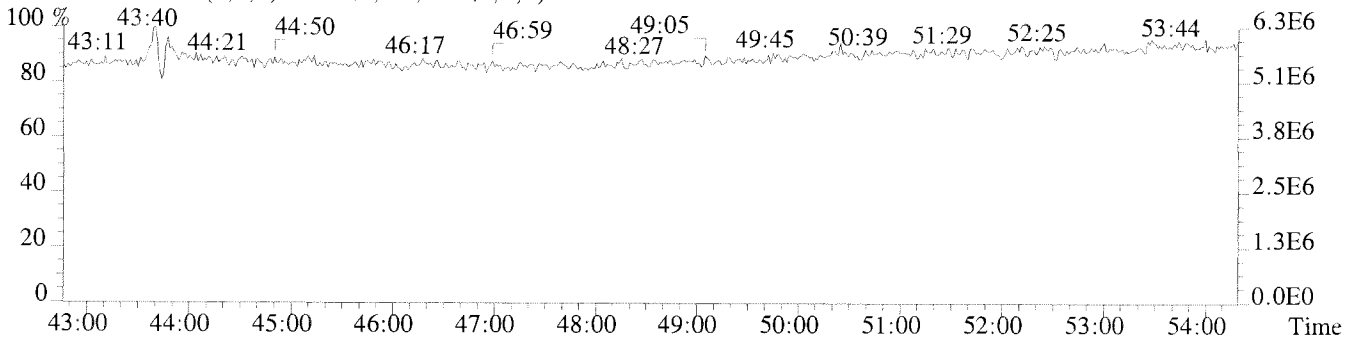
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,872.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1344.0,1.00%,F,T)

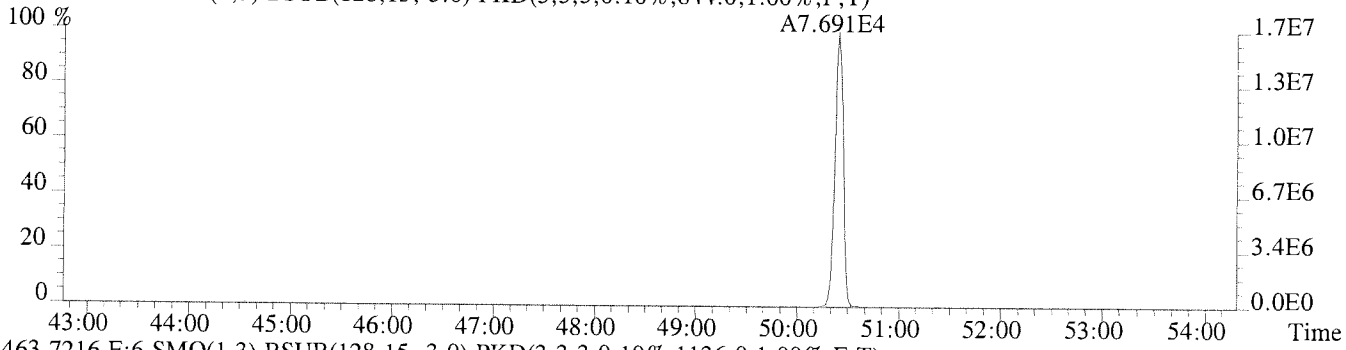


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

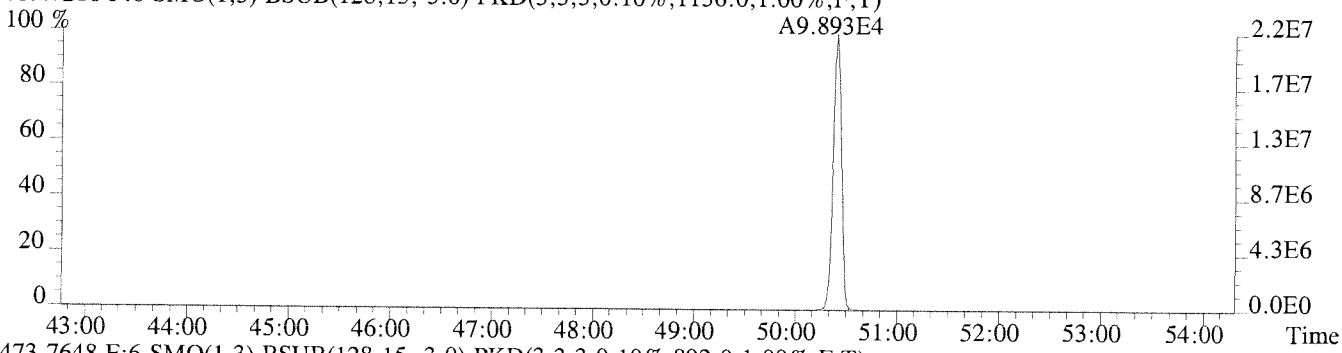


File:U139145 #1-572 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

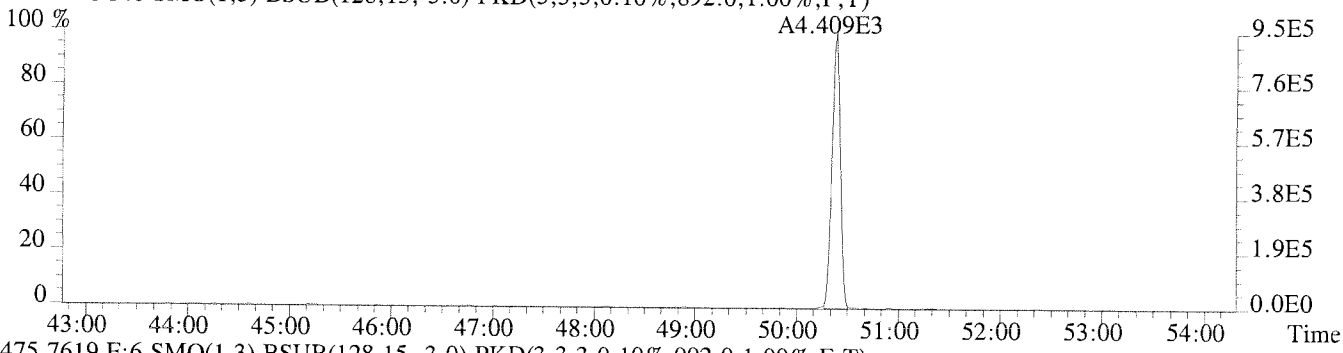
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,844.0,1.00%,F,T)



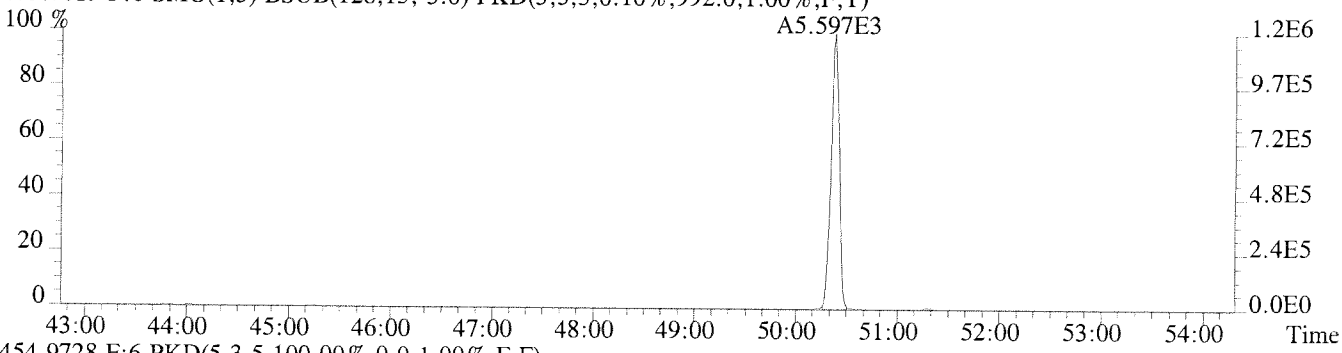
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1136.0,1.00%,F,T)



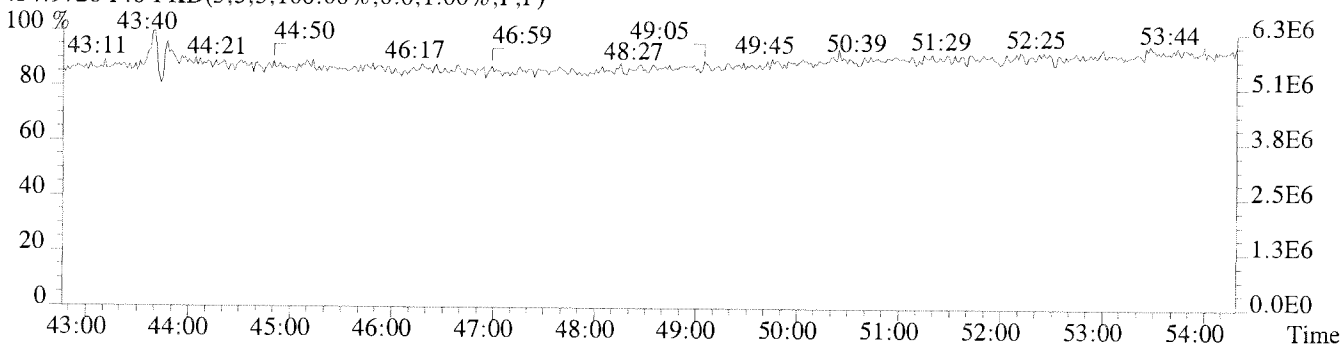
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,992.0,1.00%,F,T)

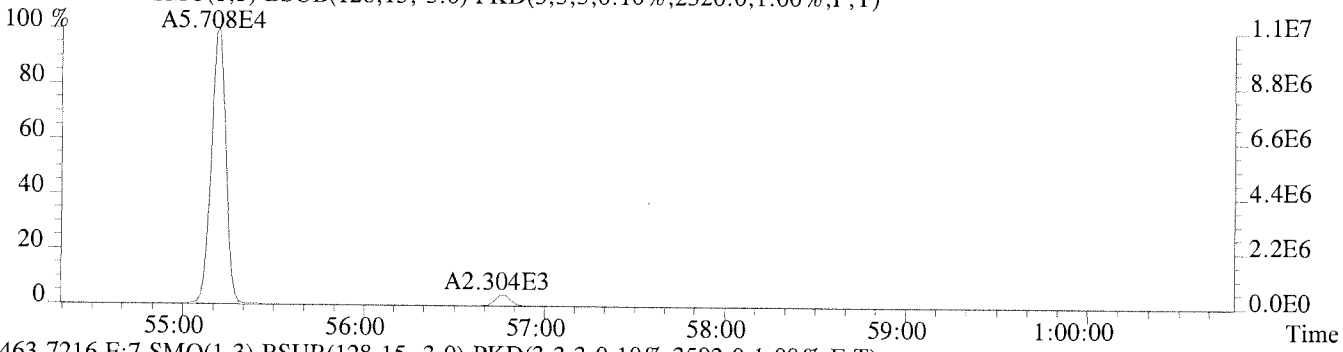


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

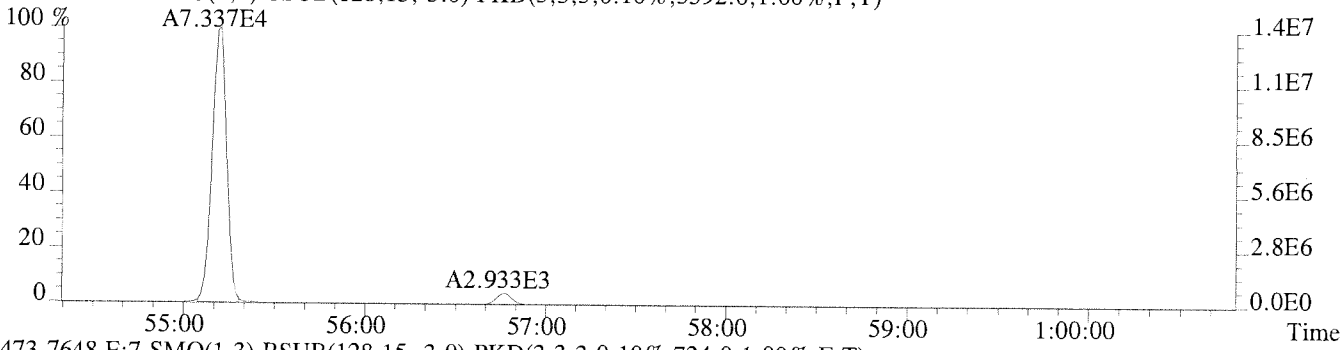


File:U139145 #1-366 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

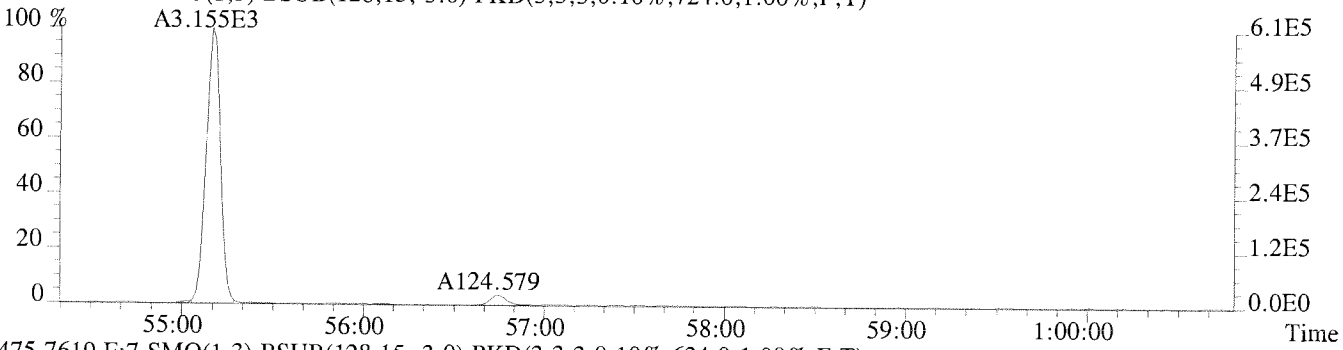
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2320.0,1.00%,F,T)



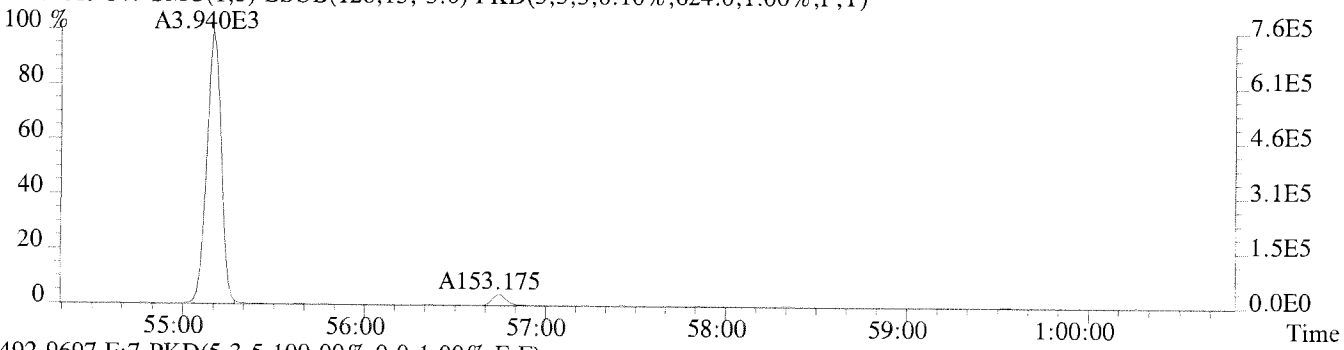
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3592.0,1.00%,F,T)



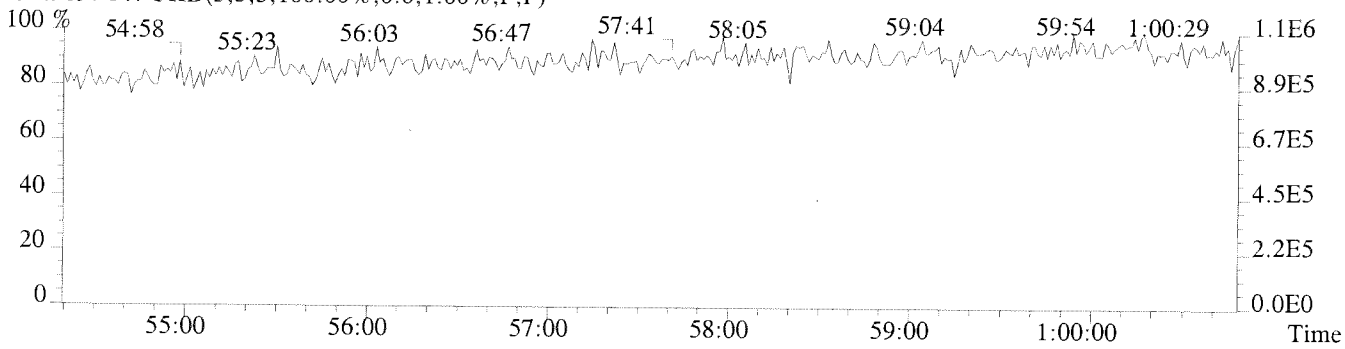
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,624.0,1.00%,F,T)

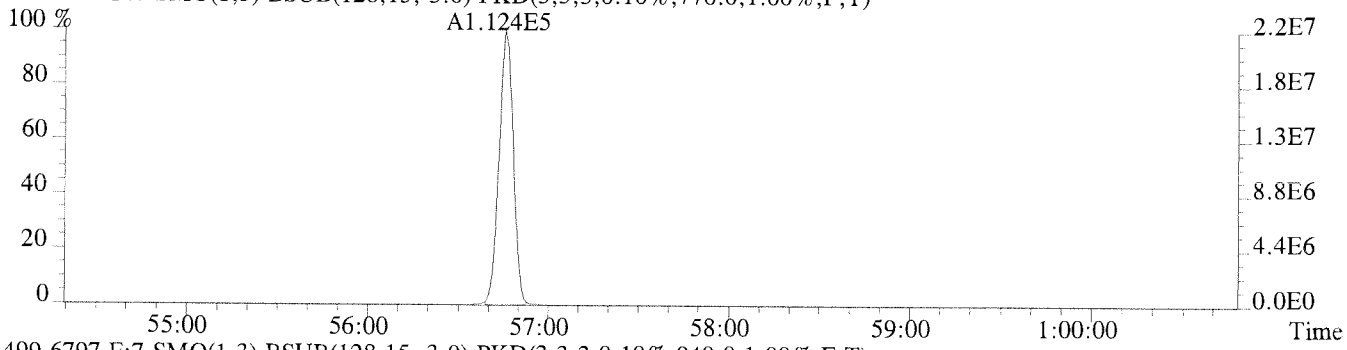


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

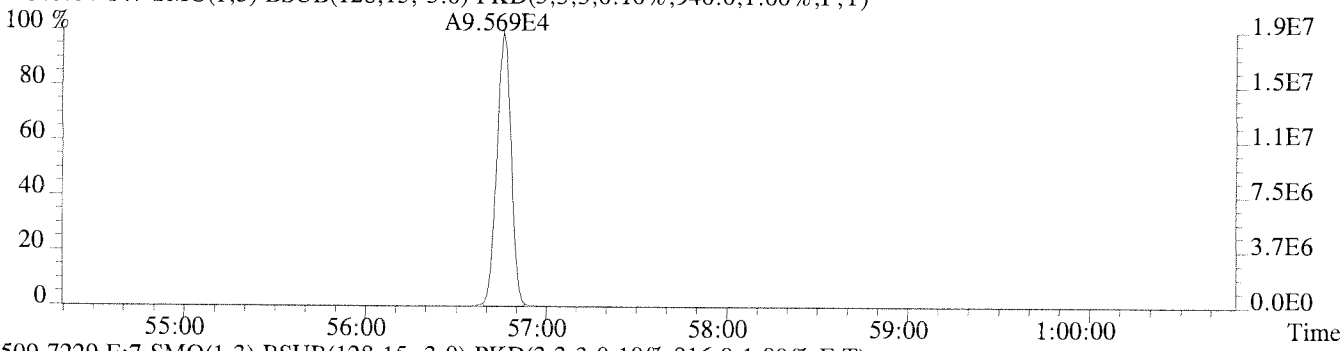


File:U139145 #1-366 Acq:23-FEB-2011 16:50:43 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS5

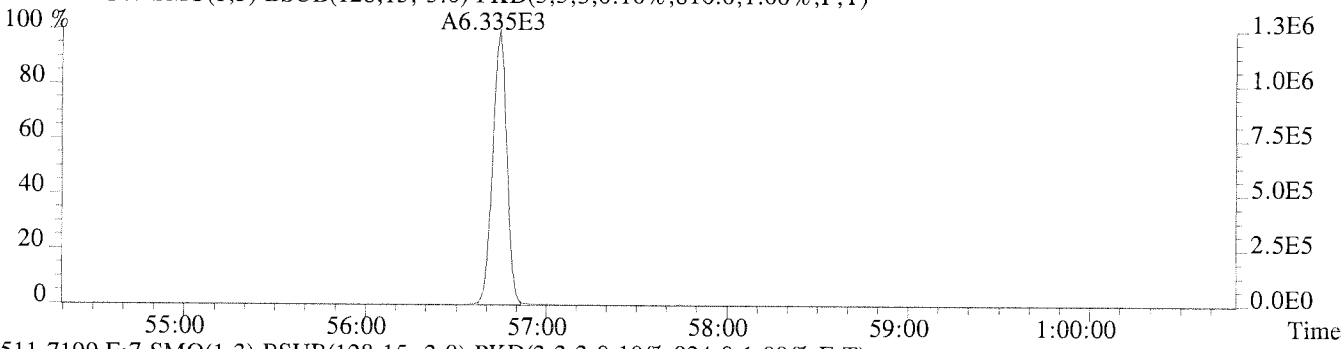
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)



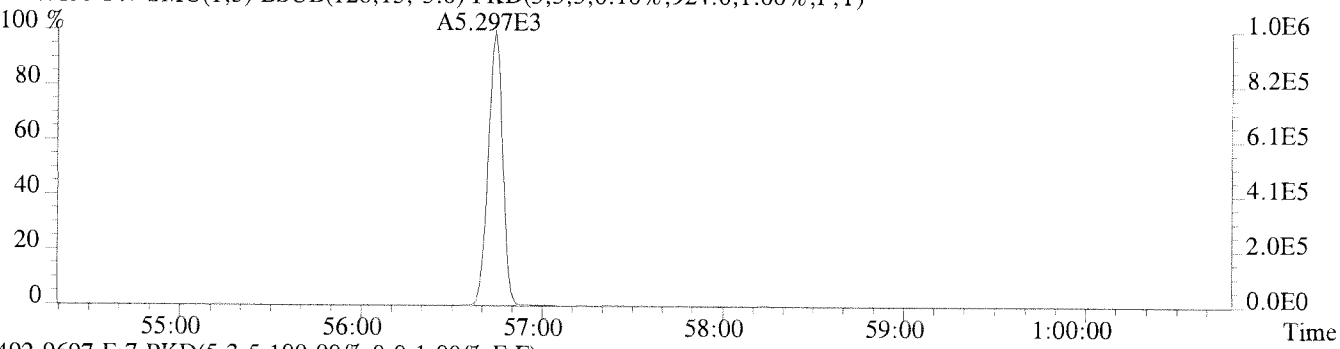
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,940.0,1.00%,F,T)



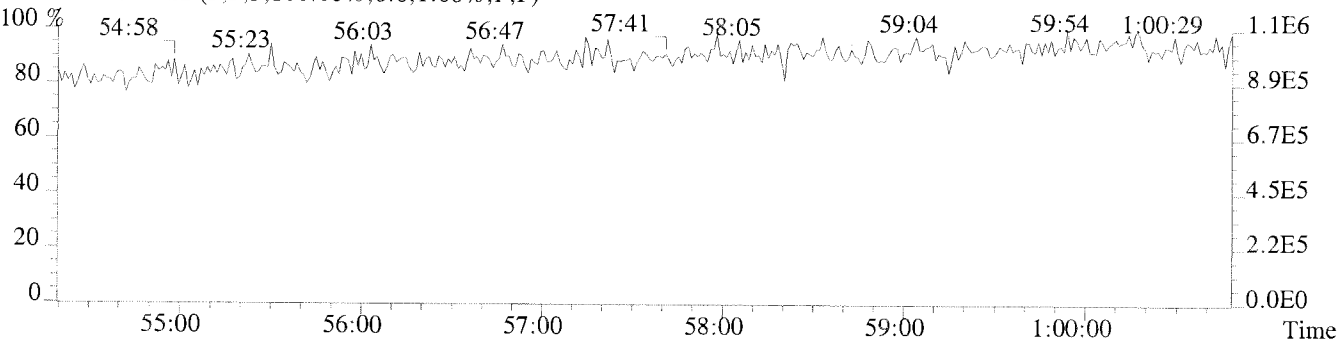
509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,816.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)



Columbia Analytical Services, Inc.
Sample Response Summary

CLIENT ID.
ICAL CS6

Run #6 Filename U139146 #1 Samp: 1 Inj: 1 Acquired: 23-FEB-11 18:13:13
Processed: 24-FEB-11 17:57:11 LAB. ID: ICAL CS6

	Typ	Name	RT-1	Resp 1	Resp 2	Ratio	Meet	Mod?	RRT
1	1	2-MoCB	13:02	3.766e+05	1.199e+05	3.14	yes	no	1.001
2	3	4-MoCB	15:13	3.644e+05	1.155e+05	3.15	yes	no	1.000
3	4	22'-DiCB	15:27	2.009e+05	1.295e+05	1.55	yes	no	1.001
4	15	44'-DiCB	21:21	2.481e+05	1.573e+05	1.58	yes	no	1.001
5	19	22'6'-TrCB	18:33	1.244e+05	1.219e+05	1.02	yes	no	1.001
6	37	344'-TrCB	28:22	1.981e+05	1.881e+05	1.05	yes	no	1.001
7	54	22'66'-TeCB	21:37	1.315e+05	1.711e+05	0.77	yes	no	1.001
8	81	344'5-TeCB	35:05	1.356e+05	1.726e+05	0.79	yes	no	1.001
9	77	33'44'-TeCB	35:39	1.318e+05	1.668e+05	0.79	yes	no	1.000
10	104	22'466'-PeCB	27:04	2.097e+05	1.312e+05	1.60	yes	no	1.001
11	123	2'344'5-PeCB	37:36	1.689e+05	1.073e+05	1.57	yes	no	1.001
12	118	23'44'5-PeCB	37:55	1.751e+05	1.112e+05	1.57	yes	no	1.000
13	114	2344'5-PeCB	38:27	1.756e+05	1.111e+05	1.58	yes	no	1.000
14	105	233'44'-PeCB	39:07	1.660e+05	1.059e+05	1.57	yes	no	1.000
15	126	33'44'5-PeCB	42:12	1.434e+05	9.055e+04	1.58	yes	no	1.000
16	155	22'44'66'-HxCB	32:42	1.899e+05	1.490e+05	1.27	yes	no	1.001
17	167	23'44'55'-HxCB	44:02	1.130e+05	9.029e+04	1.25	yes	no	1.001
18	156/7	233'44'5-HxCB	45:12	2.137e+05	1.700e+05	1.26	yes	no	1.001
19	169	33'44'55'-HxCB	48:26	9.286e+04	7.406e+04	1.25	yes	no	1.000
20	188	22'34'566'-HpCB	38:24	1.544e+05	1.489e+05	1.04	yes	no	1.001
[illegible]	189	233'44'55'-HpCB	50:54	7.794e+04	7.686e+04	1.01	yes	no	1.000
[illegible]	202	22'33'55'66'-OcCB	43:46	9.487e+04	1.071e+05	0.89	yes	no	1.000
[illegible]	205	233'44'55'6-OcCB	53:28	7.558e+04	8.594e+04	0.88	yes	no	1.001
24	208	22'33'4'55'66'-NoCB	50:24	6.749e+04	8.624e+04	0.78	yes	no	1.001
25	206	22'33'44'55'6-NoCB	55:11	5.431e+04	7.034e+04	0.77	yes	no	1.000
26	209	DeCB	56:46	9.765e+04	8.314e+04	1.17	yes	no	1.001
27	1L	13C-2-MoCB	13:01	3.905e+03	1.246e+03	3.13	yes	yes	0.748
28	3L	13C-4-MoCB	15:13	3.880e+03	1.265e+03	3.07	yes	yes	0.875
29	4L	13C-22'-DiCB	15:26	1.983e+03	1.291e+03	1.54	yes	no	0.887
30	15L	13C-44'-DiCB	21:20	2.558e+03	1.712e+03	1.49	yes	no	1.226
31	19L	13C-22'6'-TrCB	18:32	1.253e+03	1.287e+03	0.97	yes	yes	1.065
32	37L	13C-344'-TrCB	28:20	1.930e+03	1.729e+03	1.12	yes	yes	1.084
33	54L	13C-22'66'-TeCB	21:36	1.504e+03	1.749e+03	0.86	yes	no	0.827
34	81L	13C-344'5-TeCB	35:03	1.397e+03	1.712e+03	0.82	yes	no	1.341
35	77L	13C-33'44'-TeCB	35:38	1.365e+03	1.684e+03	0.81	yes	no	1.364
36	104L	13C-22'466'-PeCB	27:03	2.171e+03	1.384e+03	1.57	yes	no	0.821
37	123L	13C-2'344'5-PeCB	37:34	1.763e+03	1.191e+03	1.48	yes	no	1.140
38	118L	13C-23'44'5-PeCB	37:54	1.939e+03	1.241e+03	1.56	yes	no	1.150
[illegible]	114L	13C-2344'5-PeCB	38:26	1.867e+03	1.206e+03	1.55	yes	no	1.166
[illegible]	105L	13C-233'44'-PeCB	39:06	1.809e+03	1.203e+03	1.50	yes	no	1.187
[illegible]	126L	13C-33'44'5-PeCB	42:11	1.611e+03	9.971e+02	1.62	yes	no	1.280
42	155L	13C-22'44'66'-HxCB	32:41	2.014e+03	1.595e+03	1.26	yes	no	0.797
43	167L	13C-23'44'55'-HxCB	43:59	1.194e+03	9.777e+02	1.22	yes	no	1.073
44	156/7	13C-233'44'5'-HxCB	45:10	2.326e+03	1.848e+03	1.26	yes	no	1.102
[illegible]	169L	13C-33'44'55'-HxCB	48:25	9.503e+02	7.515e+02	1.26	yes	no	1.181
46	188L	13C-22'34'566'-HpCB	38:22	1.714e+03	1.597e+03	1.07	yes	no	0.725
47	189L	13C-233'44'55'-HpCB	50:53	9.774e+02	9.047e+02	1.08	yes	no	0.961
48	202L	13C-22'33'55'66'-OcCB	43:45	1.161e+03	1.251e+03	0.93	yes	no	0.826
49	205L	13C-233'44'55'6-OcCB	53:25	9.261e+02	1.028e+03	0.90	yes	no	1.009
50	208L	13C-22'33'4'55'66'-NoCB	50:22	7.869e+02	9.857e+02	0.80	yes	no	0.951
51	206L	13C-22'33'44'55'6-NoCB	55:10	6.694e+02	8.031e+02	0.83	yes	no	1.042
52	209L	13C-DeCB	56:43	1.179e+03	9.678e+02	1.22	yes	no	1.071

53	28L	13C-244'-TrCB	24:20	2.034e+03	2.149e+03	0.95	yes	yes	0.931
54	111L	13C-233'55'-PeCB	35:36	1.967e+03	1.245e+03	1.58	yes	no	1.080
55	178L	13C-22'33'55'6-HpCB	41:26	1.080e+03	9.567e+02	1.13	yes	no	1.011
5	9L	13C-2,5-DiCB	17:24	2.563e+03	1.536e+03	1.67	yes	no	*
7	52L	13C-22'55'-TeCB	26:08	1.230e+03	1.579e+03	0.78	yes	no	*
58	101L	13C-22'4'55'-PeCB	32:57	1.531e+03	1.012e+03	1.51	yes	no	*
59	138L	13C-22'3'44'5'-HxCB	41:00	1.319e+03	1.086e+03	1.21	yes	no	*
60	194L	13C-22'33'44'55'-OcCB	52:57	5.854e+02	7.002e+02	0.84	yes	no	*

Columbia Analytical Services,Inc.
Signal/Noise Height Ratio Summary

CLIENT ID.
ICAL CS6

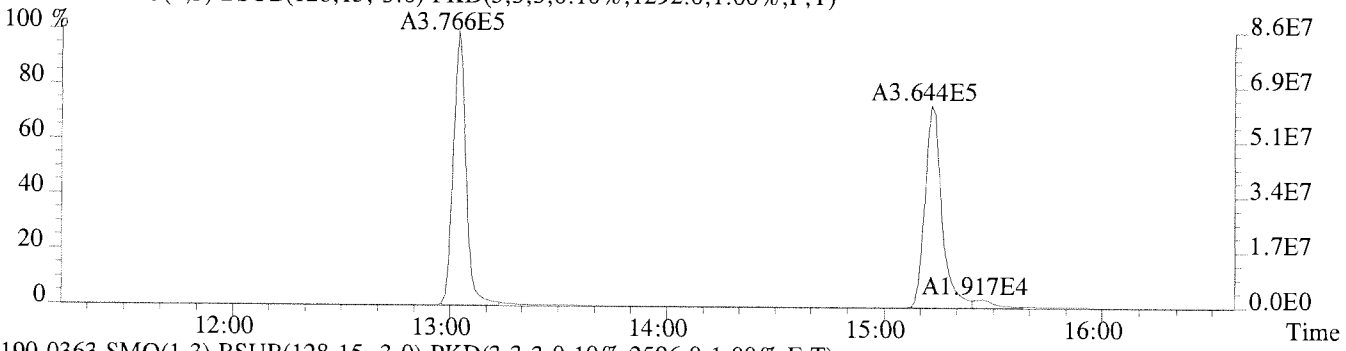
Run #6 Filename U139146 Samp: 1 Inj: 1 Acquired: 23-FEB-11 18:13:13
Processed: 24-FEB-11 17:57:111 LAB. ID: ICAL CS6

	Name	Signal 1	Noise 1	S/N Rat.1	Signal 2	Noise 2	S/N Rat.2
1	2-MoCB	8.57e+07	1.29e+03	6.6e+04	2.73e+07	2.60e+03	1.1e+04
2	4-MoCB	6.30e+07	1.29e+03	4.9e+04	2.01e+07	2.60e+03	7.8e+03
3	22'-DiCB	3.85e+07	2.26e+03	1.7e+04	2.49e+07	7.16e+03	3.5e+03
4	44'-DiCB	3.93e+07	6.23e+03	6.3e+03	2.49e+07	7.60e+03	3.3e+03
5	22'6'-TrCB	2.40e+07	1.66e+03	1.5e+04	2.37e+07	1.17e+03	2.0e+04
[illegible]	344'-TrCB	2.85e+07	1.98e+03	1.4e+04	2.69e+07	2.19e+03	1.2e+04
[illegible]	22'66'-TeCB	2.39e+07	8.64e+02	2.8e+04	3.12e+07	1.21e+03	2.6e+04
[illegible]	344'5-TeCB	2.19e+07	1.60e+03	1.4e+04	2.79e+07	2.56e+03	1.1e+04
[illegible]	33'44'-TeCB	2.02e+07	1.60e+03	1.3e+04	2.56e+07	2.56e+03	1.0e+04
10	22'466'-PeCB	3.53e+07	8.48e+02	4.2e+04	2.21e+07	1.24e+03	1.8e+04
11	2'344'5-PeCB	2.93e+07	4.88e+04	6.0e+02	1.86e+07	3.53e+04	5.3e+02
12	23'44'5-PeCB	2.99e+07	4.88e+04	6.1e+02	1.90e+07	3.53e+04	5.4e+02
[illegible]	2344'5-PeCB	3.02e+07	4.88e+04	6.2e+02	1.91e+07	3.53e+04	5.4e+02
[illegible]	233'44'-PeCB	2.85e+07	4.88e+04	5.8e+02	1.81e+07	3.53e+04	5.1e+02
15	33'44'5-PeCB	2.34e+07	4.88e+04	4.8e+02	1.48e+07	3.53e+04	4.2e+02
16	22'44'66'-HxCB	3.37e+07	1.00e+03	3.4e+04	2.64e+07	1.38e+03	1.9e+04
17	23'44'55'-HxCB	2.37e+07	5.46e+03	4.3e+03	1.88e+07	6.24e+03	3.0e+03
18	233'44'5-HxCB	3.12e+07	5.46e+03	5.7e+03	2.48e+07	6.24e+03	4.0e+03
19	33'44'55'-HxCB	1.91e+07	5.46e+03	3.5e+03	1.52e+07	6.24e+03	2.4e+03
20	22'34'566'-HpCB	2.80e+07	9.44e+02	3.0e+04	2.68e+07	9.32e+02	2.9e+04
21	233'44'55'-HpCB	1.64e+07	1.53e+03	1.1e+04	1.62e+07	9.72e+02	1.7e+04
22	22'33'55'66'-OcCB	2.05e+07	1.14e+03	1.8e+04	2.32e+07	2.13e+03	1.1e+04
23	233'44'55'6-OcCB	1.59e+07	1.14e+03	1.4e+04	1.80e+07	2.13e+03	8.5e+03
24	22'33'4'55'66'-NoCB	1.42e+07	8.56e+02	1.7e+04	1.83e+07	1.11e+03	1.6e+04
[illegible]	22'33'44'55'6-NoCB	1.07e+07	2.36e+03	4.5e+03	1.38e+07	2.48e+03	5.6e+03
[illegible]	DeCB	1.89e+07	7.16e+02	2.6e+04	1.60e+07	6.00e+02	2.7e+04
[illegible]	13C-2-MoCB	8.68e+05	1.36e+03	6.4e+02	2.84e+05	1.85e+04	1.5e+01
[illegible]	13C-4-MoCB	6.71e+05	1.36e+03	4.9e+02	2.22e+05	1.85e+04	1.2e+01
29	13C-22'-DiCB	3.76e+05	3.54e+03	1.1e+02	2.38e+05	1.43e+03	1.7e+02
30	13C-44'-DiCB	4.23e+05	6.64e+03	6.4e+01	2.85e+05	2.66e+03	1.1e+02
[illegible]	13C-22'6'-TrCB	2.49e+05	1.30e+04	1.9e+01	2.49e+05	1.11e+04	2.2e+01
[illegible]	13C-344'-TrCB	3.10e+05	1.84e+04	1.7e+01	2.71e+05	1.04e+04	2.6e+01
33	13C-22'66'-TeCB	2.68e+05	1.66e+03	1.6e+02	3.21e+05	1.28e+03	2.5e+02
34	13C-344'5-TeCB	2.38e+05	1.21e+03	2.0e+02	2.82e+05	9.68e+02	2.9e+02
35	13C-33'44'-TeCB	2.30e+05	1.21e+03	1.9e+02	2.73e+05	9.68e+02	2.8e+02
36	13C-22'466'-PeCB	3.58e+05	8.20e+02	4.4e+02	2.32e+05	9.04e+02	2.6e+02
37	13C-2'344'5-PeCB	3.14e+05	1.39e+03	2.3e+02	2.05e+05	6.16e+02	3.3e+02
38	13C-23'44'5-PeCB	3.43e+05	1.39e+03	2.5e+02	2.15e+05	6.16e+02	3.5e+02
39	13C-2344'5-PeCB	3.22e+05	1.39e+03	2.3e+02	2.01e+05	6.16e+02	3.3e+02
40	13C-233'44'-PeCB	3.14e+05	1.39e+03	2.3e+02	2.02e+05	6.16e+02	3.3e+02
41	13C-33'44'5-PeCB	2.63e+05	1.39e+03	1.9e+02	1.67e+05	6.16e+02	2.7e+02
[illegible]	13C-22'44'66'-HxCB	3.59e+05	9.76e+02	3.7e+02	2.80e+05	9.52e+02	2.9e+02
[illegible]	13C-23'44'55'-HxCB	2.52e+05	1.17e+03	2.2e+02	1.97e+05	8.92e+02	2.2e+02
[illegible]	13C-233'44'5'-HxCB	3.44e+05	1.17e+03	2.9e+02	2.65e+05	8.92e+02	3.0e+02
[illegible]	13C-33'44'55'-HxCB	1.95e+05	1.17e+03	1.7e+02	1.58e+05	8.92e+02	1.8e+02
[illegible]	13C-22'34'566'-HpCB	3.00e+05	9.32e+02	3.2e+02	2.81e+05	9.24e+02	3.0e+02
[illegible]	13C-233'44'55'-HpCB	1.98e+05	9.48e+02	2.1e+02	1.89e+05	7.16e+02	2.6e+02
48	13C-22'33'55'66'-OcCB	2.49e+05	7.72e+02	3.2e+02	2.71e+05	7.24e+02	3.7e+02
49	13C-233'44'55'6-OcCB	1.84e+05	7.72e+02	2.4e+02	2.13e+05	7.24e+02	2.9e+02
[illegible]	13C-22'33'4'55'66'-NoCB	1.73e+05	7.68e+02	2.3e+02	2.12e+05	7.76e+02	2.7e+02
51	13C-22'33'44'55'6-NoCB	1.24e+05	7.12e+02	1.7e+02	1.52e+05	5.00e+02	3.0e+02
52	13C-DeCB	2.22e+05	5.84e+02	3.8e+02	1.89e+05	6.16e+02	3.1e+02

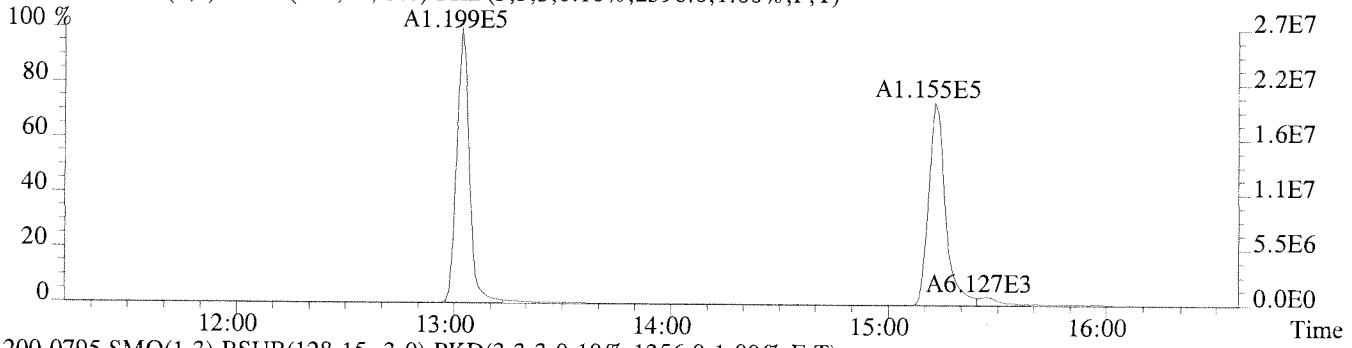
13C-244'-TrCB	2.98e+05	1.84e+04	1.6e+01	2.87e+05	1.04e+04	2.8e+01
13C-233'55'-PeCB	3.34e+05	1.35e+03	2.5e+02	2.00e+05	1.00e+03	2.0e+02
13C-22'33'55'6-HpCB	1.82e+05	9.32e+02	2.0e+02	1.64e+05	9.24e+02	1.8e+02
13C-2,5-DiCB	4.49e+05	6.64e+03	6.8e+01	2.66e+05	2.66e+03	1.0e+02
13C-22'55'-TeCB	1.87e+05	1.59e+03	1.2e+02	2.50e+05	1.19e+03	2.1e+02
13C-22'4'55'-PeCB	2.58e+05	1.35e+03	1.9e+02	1.63e+05	1.00e+03	1.6e+02
13C-22'3'44'5'-HxCB	2.25e+05	1.18e+03	1.9e+02	1.82e+05	1.00e+03	1.8e+02
13C-22'33'44'55'-OcCB	1.23e+05	7.72e+02	1.6e+02	1.46e+05	7.24e+02	2.0e+02

File:U139146 #1-347 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

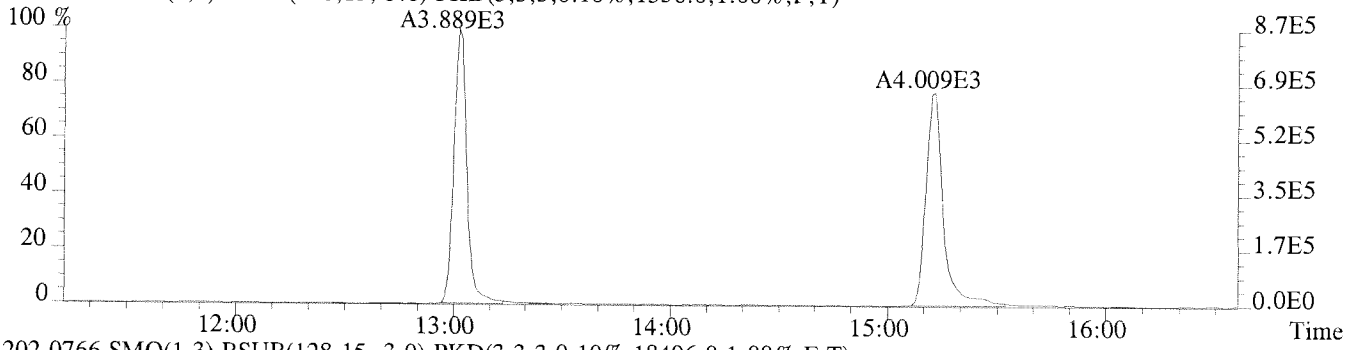
188.0393 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1292.0,1.00%,F,T)



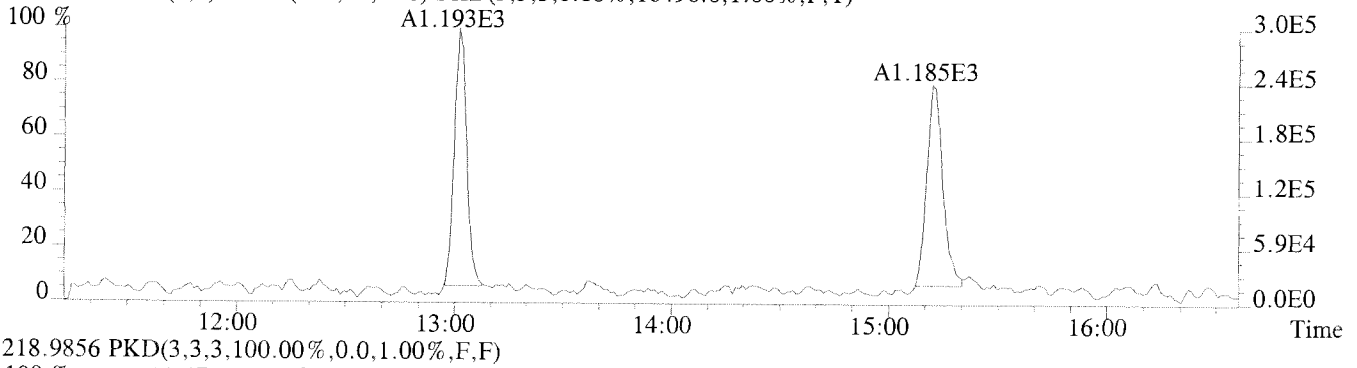
190.0363 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2596.0,1.00%,F,T)



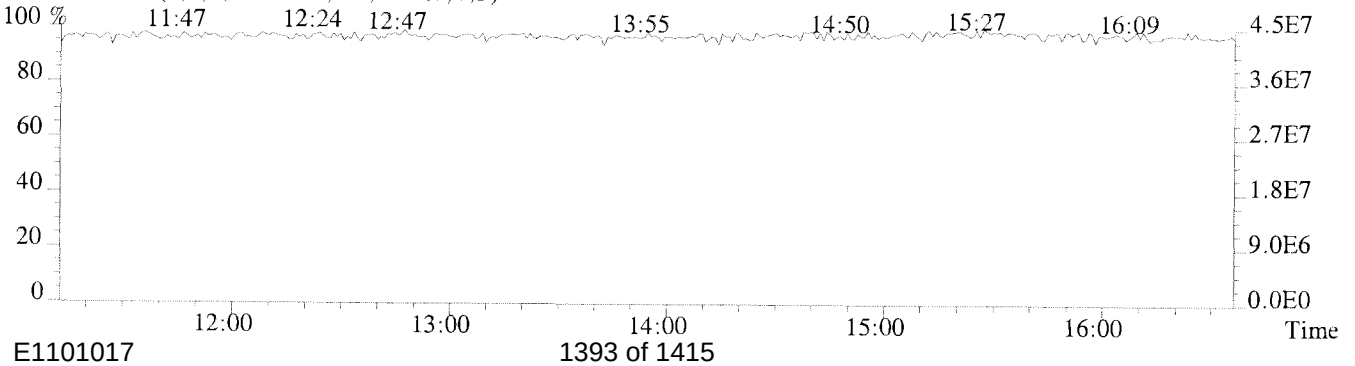
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1356.0,1.00%,F,T)



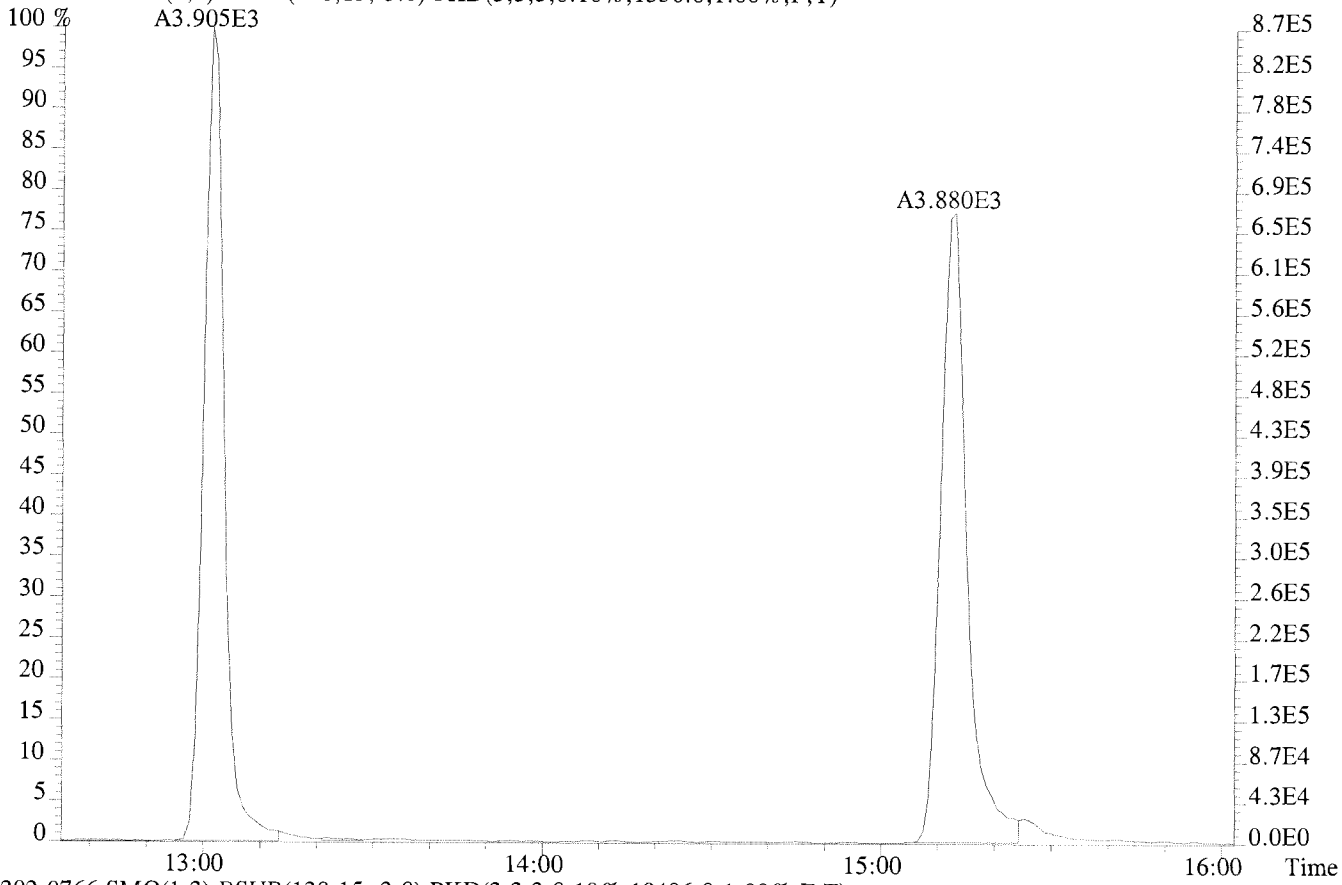
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18496.0,1.00%,F,T)



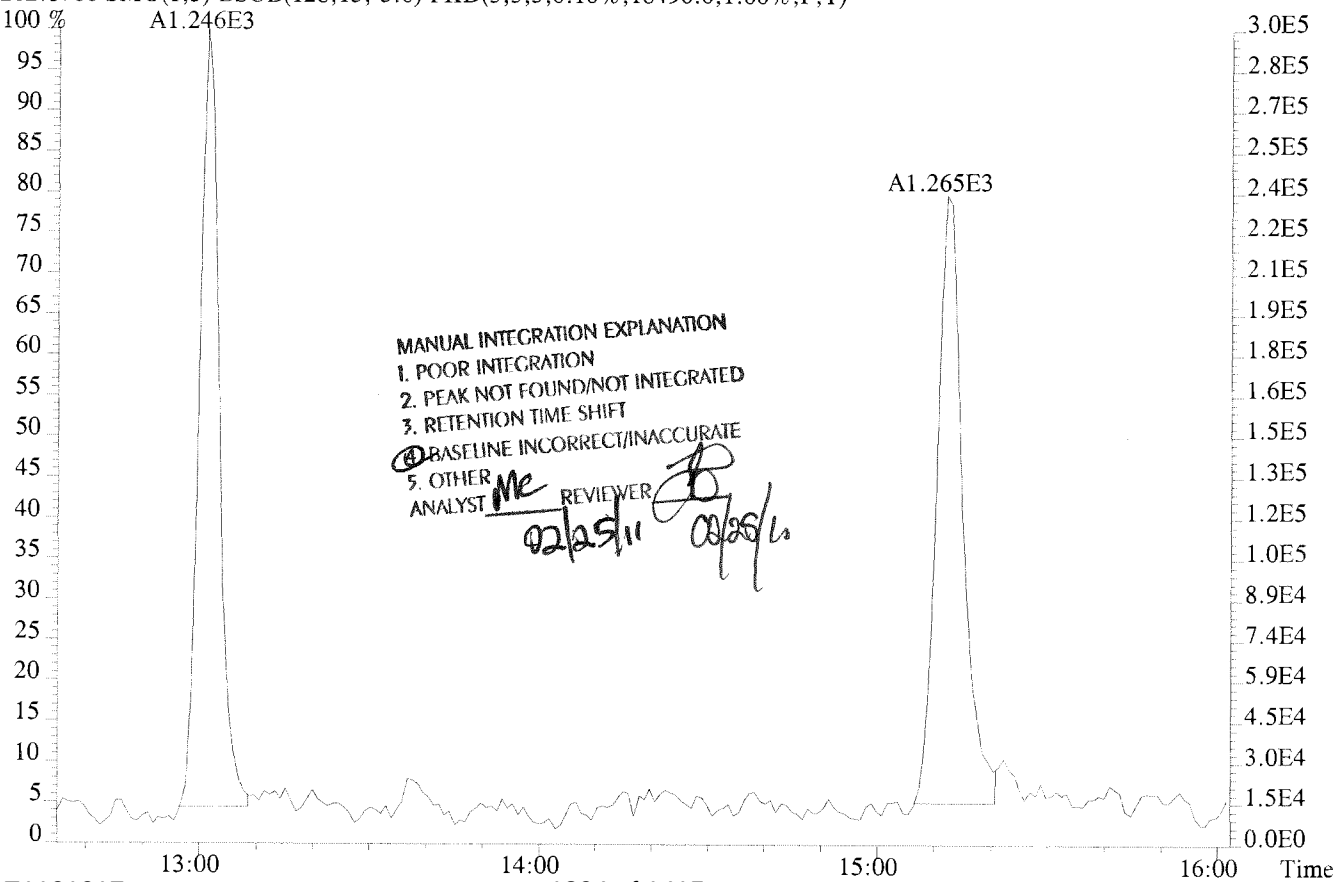
218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139146 #1-347 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6
200.0795 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1356.0,1.00%,F,T)



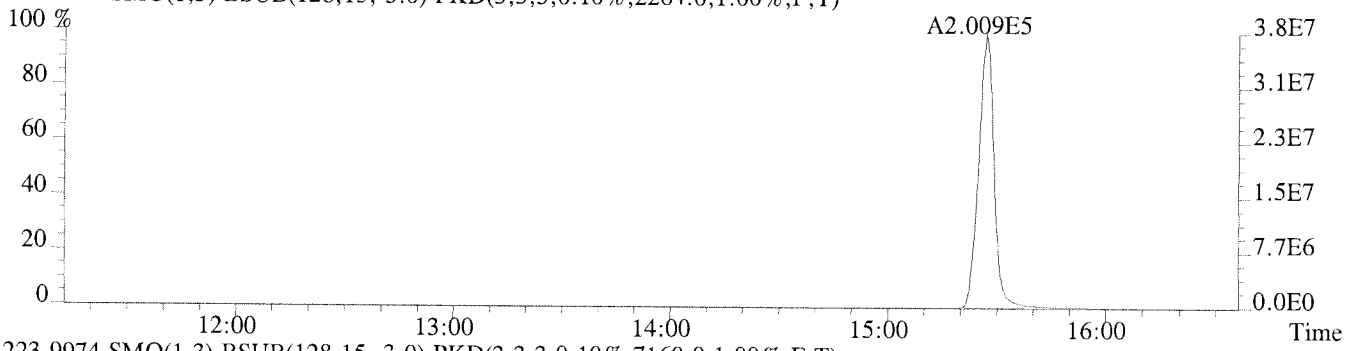
202.0766 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18496.0,1.00%,F,T)



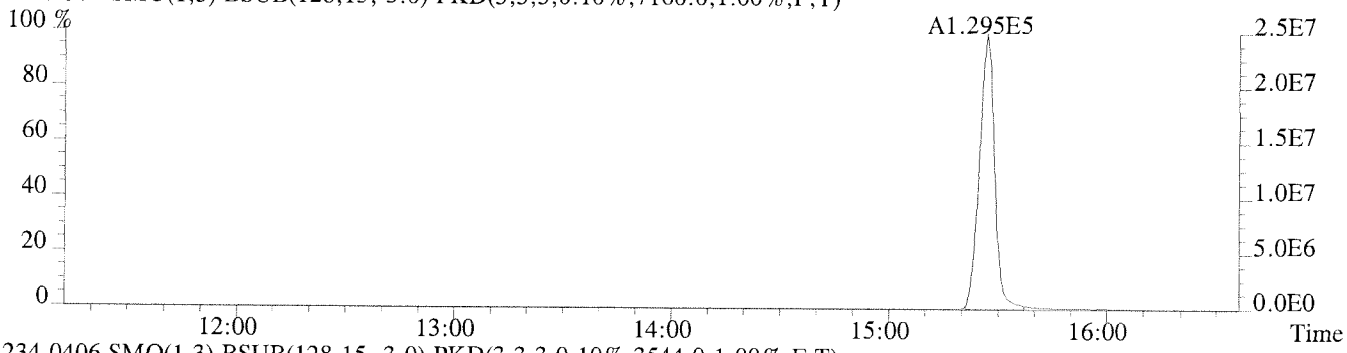
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST Mc 02/25/11 REVIEWER 02/25/11

File:U139146 #1-347 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

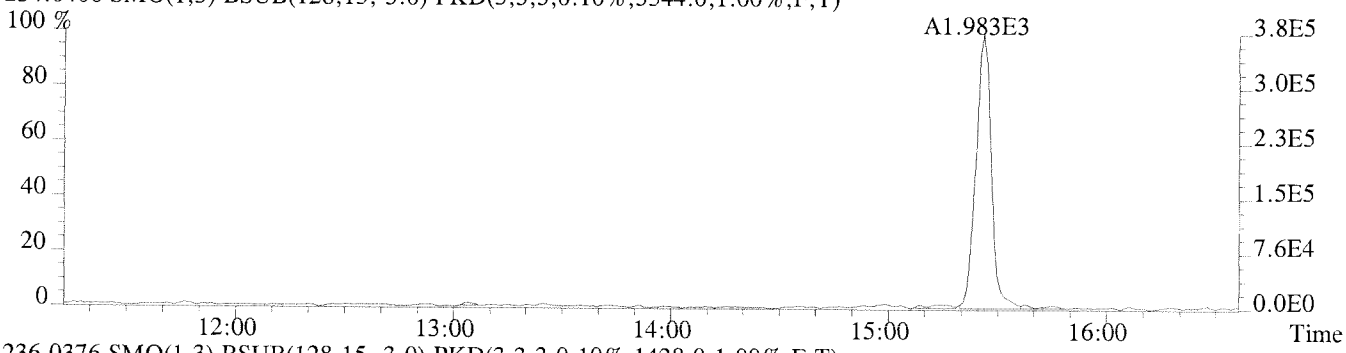
222.0003 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2264.0,1.00%,F,T)



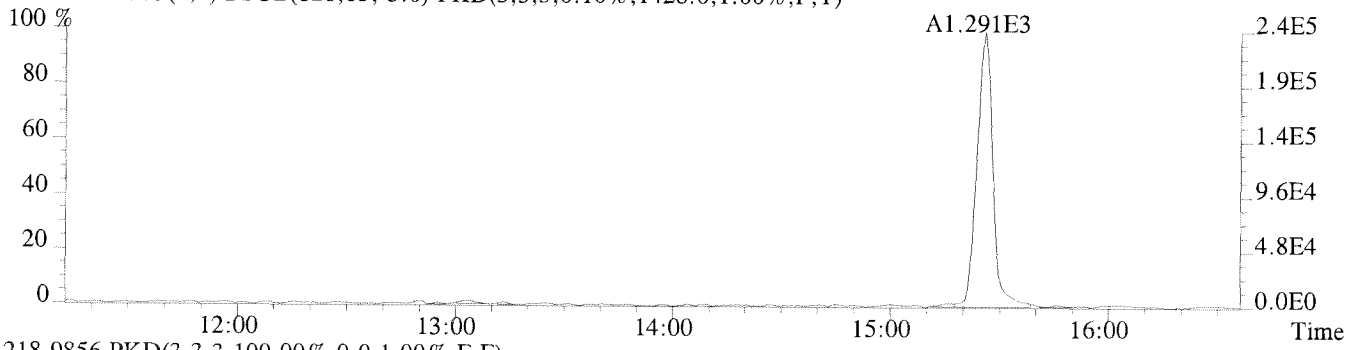
223.9974 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7160.0,1.00%,F,T)



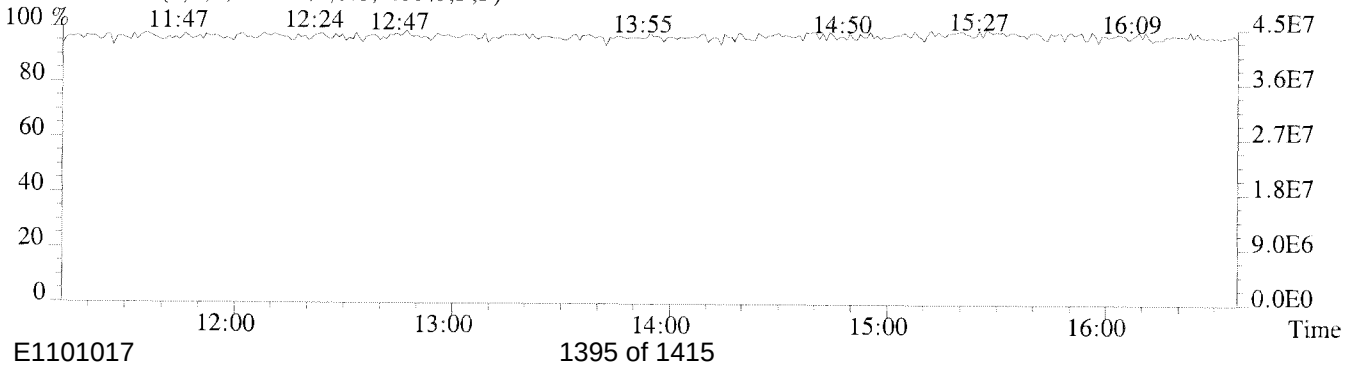
234.0406 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,3544.0,1.00%,F,T)



236.0376 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1428.0,1.00%,F,T)

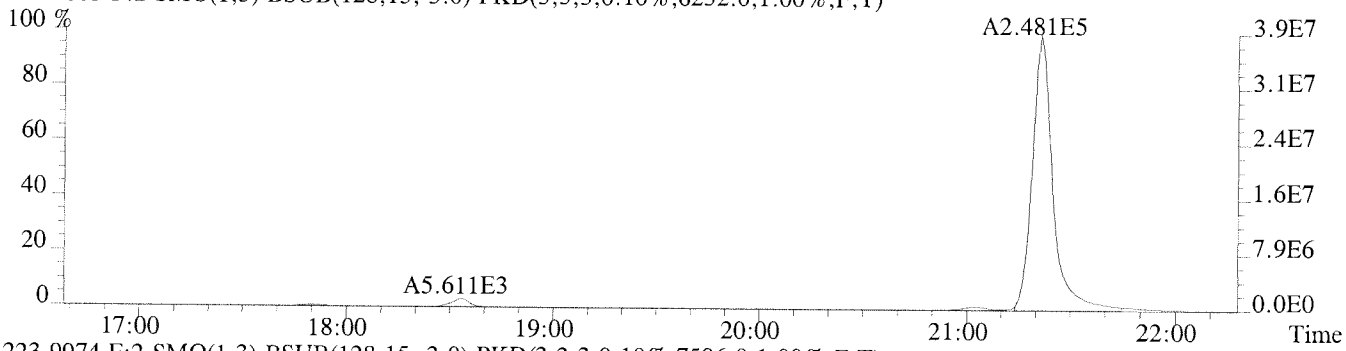


218.9856 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

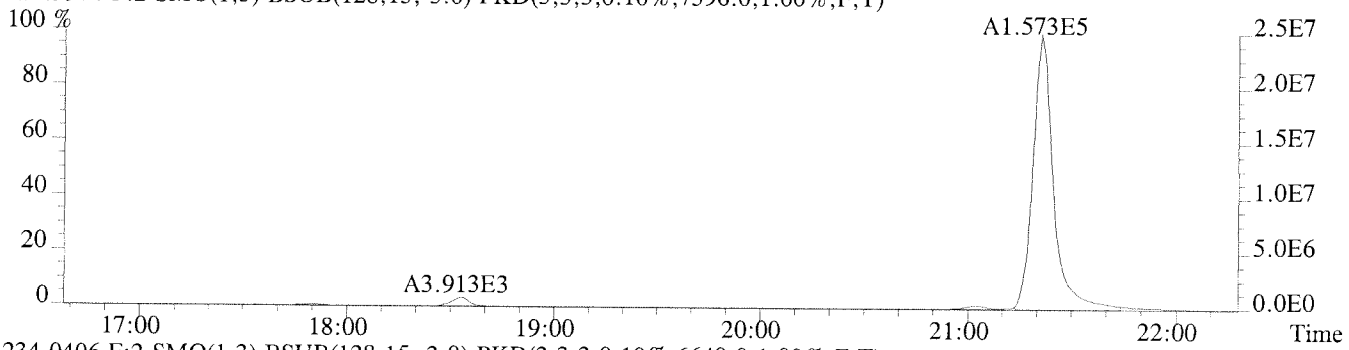


File:U139146 #1-313 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

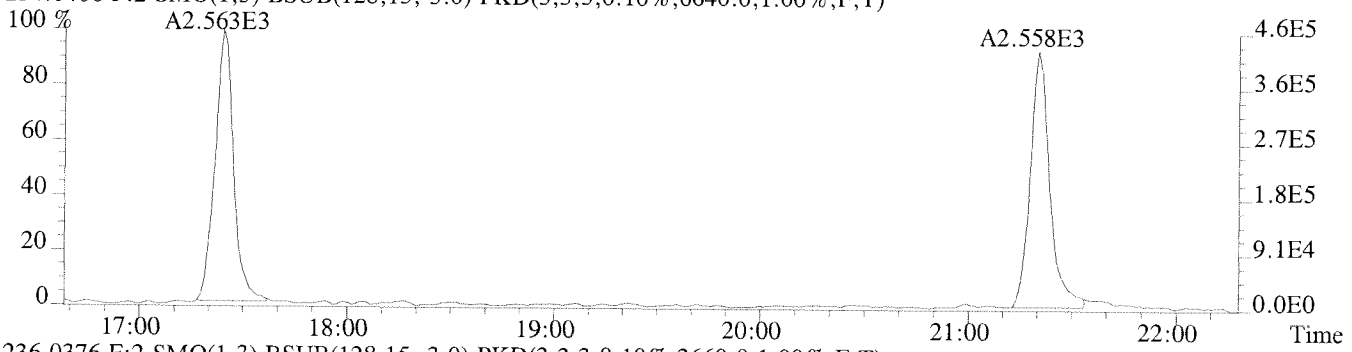
222.0003 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6232.0,1.00%,F,T)



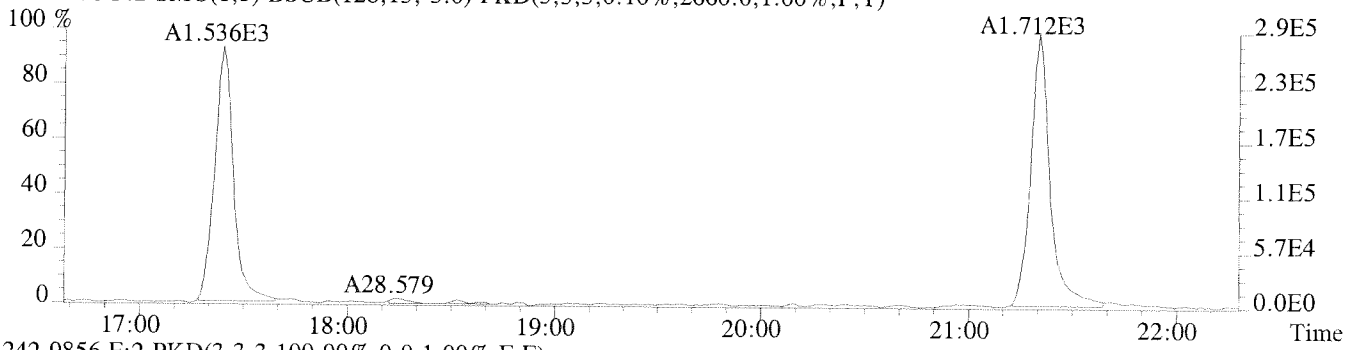
223.9974 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,7596.0,1.00%,F,T)



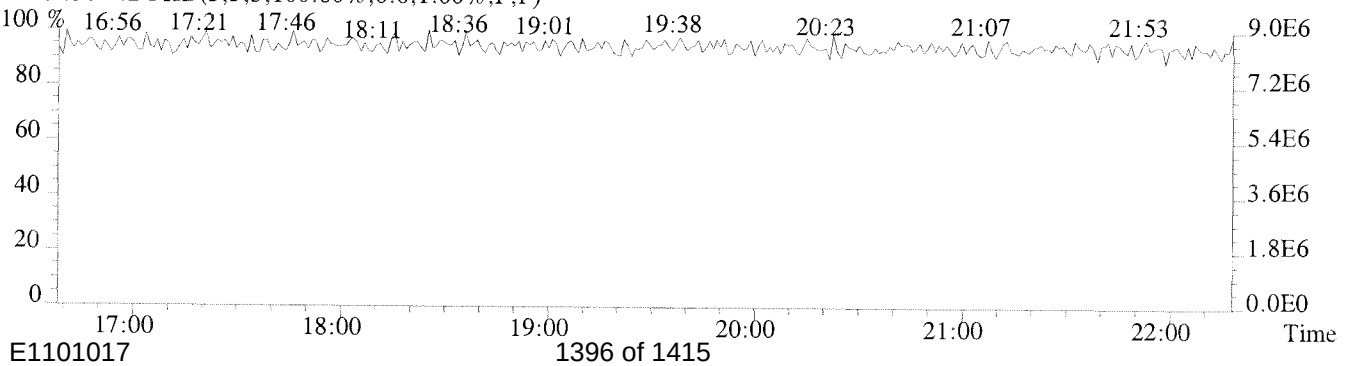
234.0406 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6640.0,1.00%,F,T)



236.0376 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2660.0,1.00%,F,T)

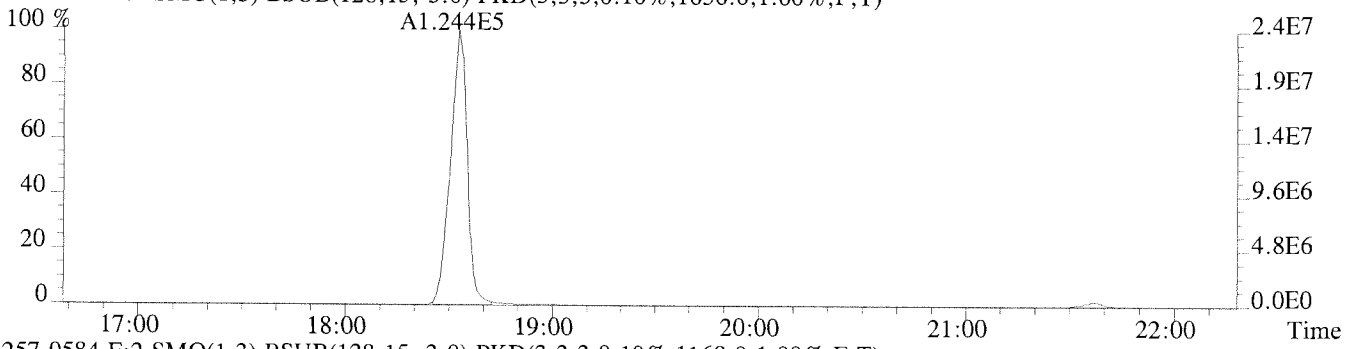


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

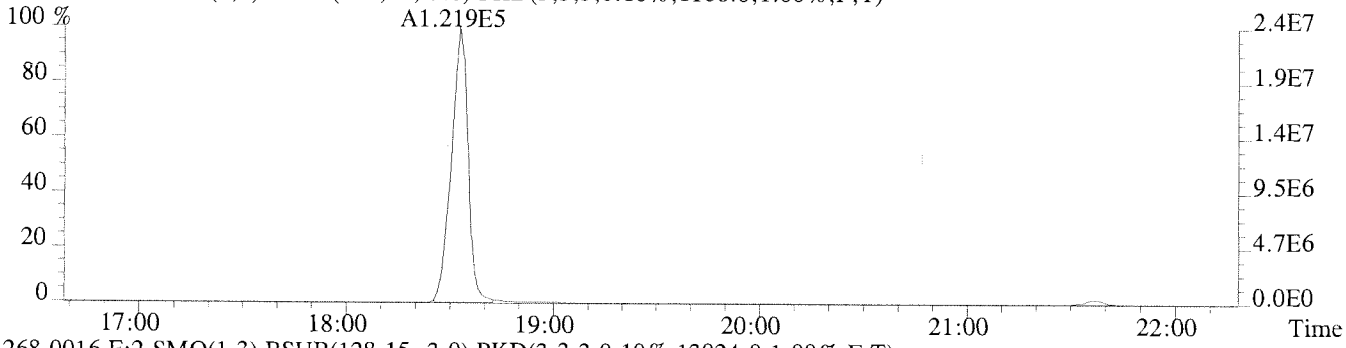


File:U139146 #1-313 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

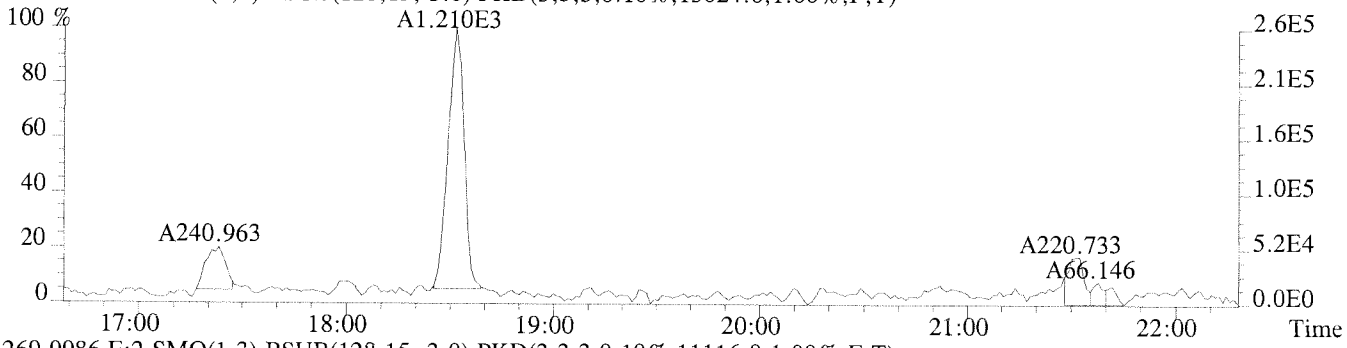
255.9613 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1656.0,1.00%,F,T)



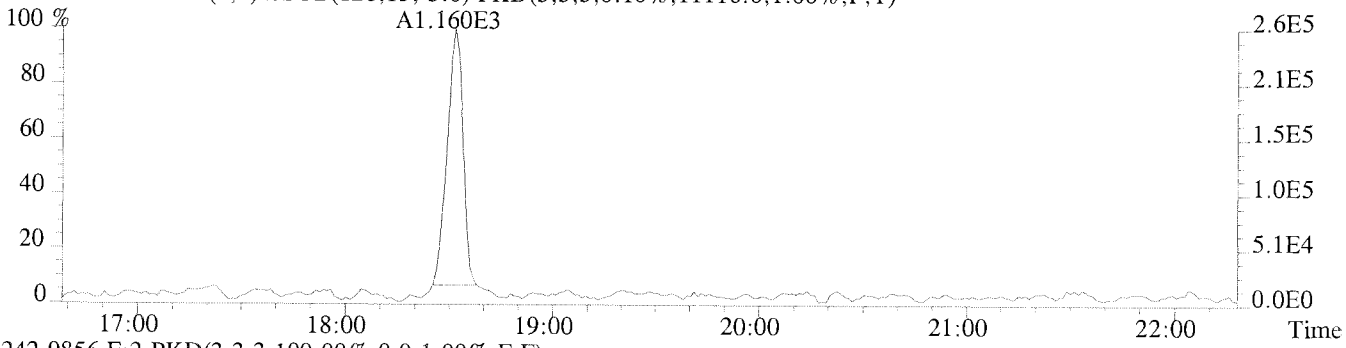
257.9584 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1168.0,1.00%,F,T)



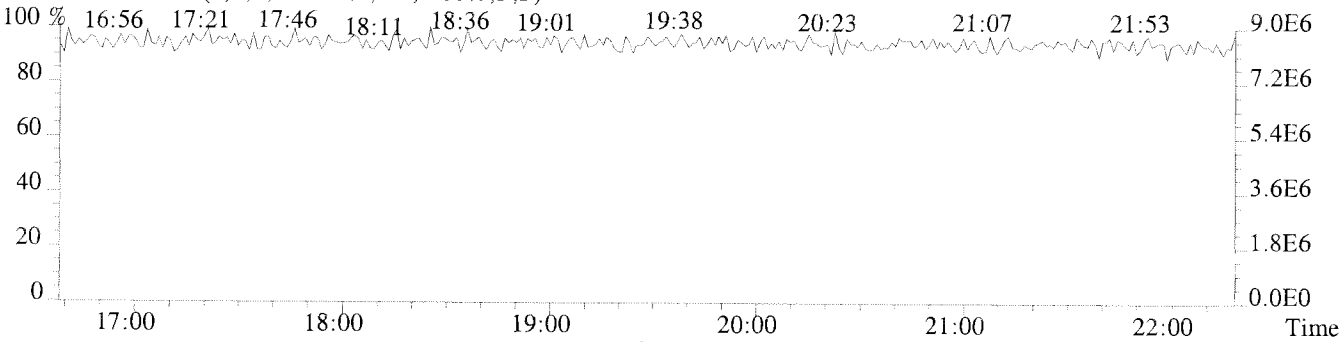
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,13024.0,1.00%,F,T)



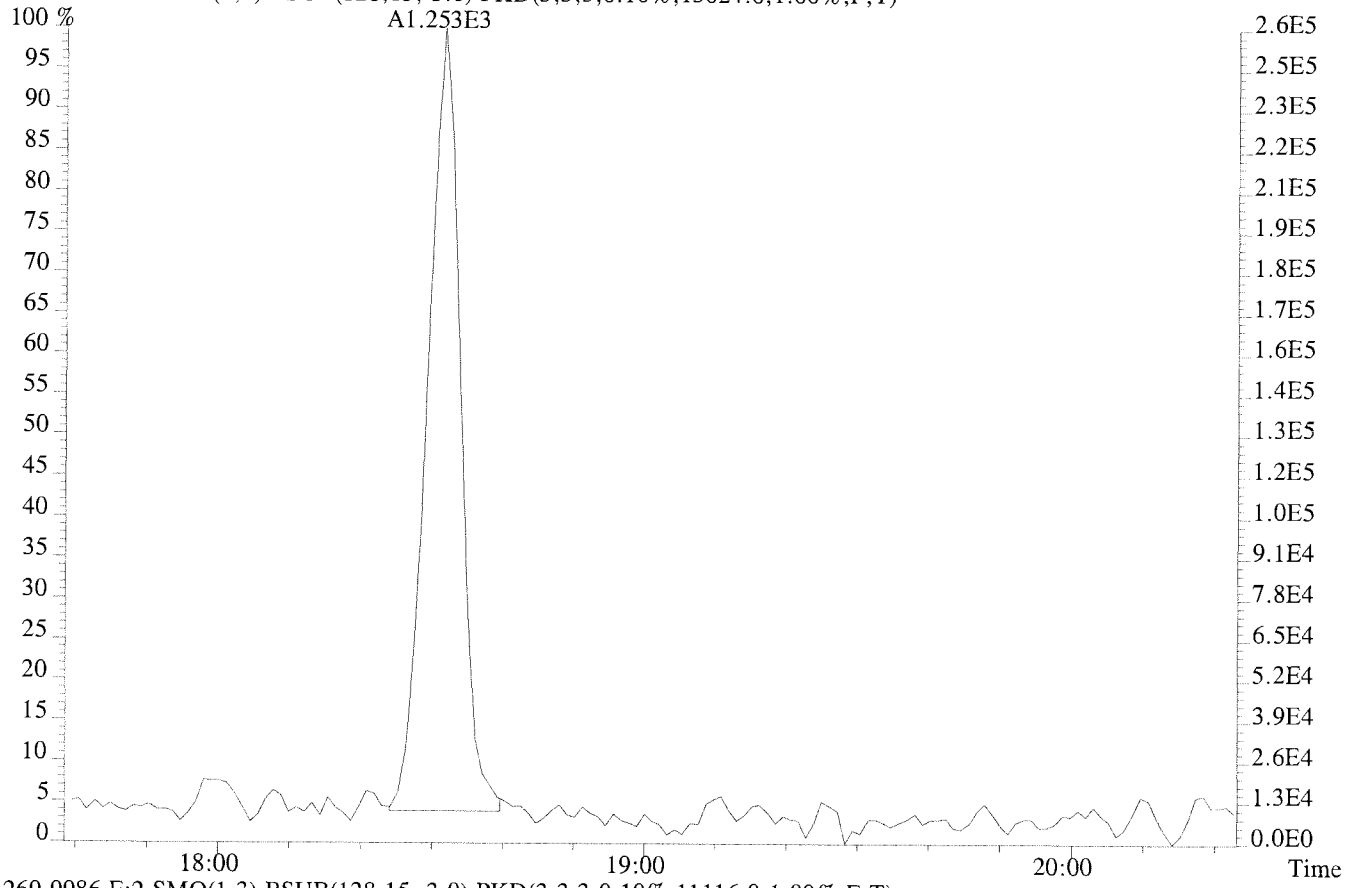
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11116.0,1.00%,F,T)



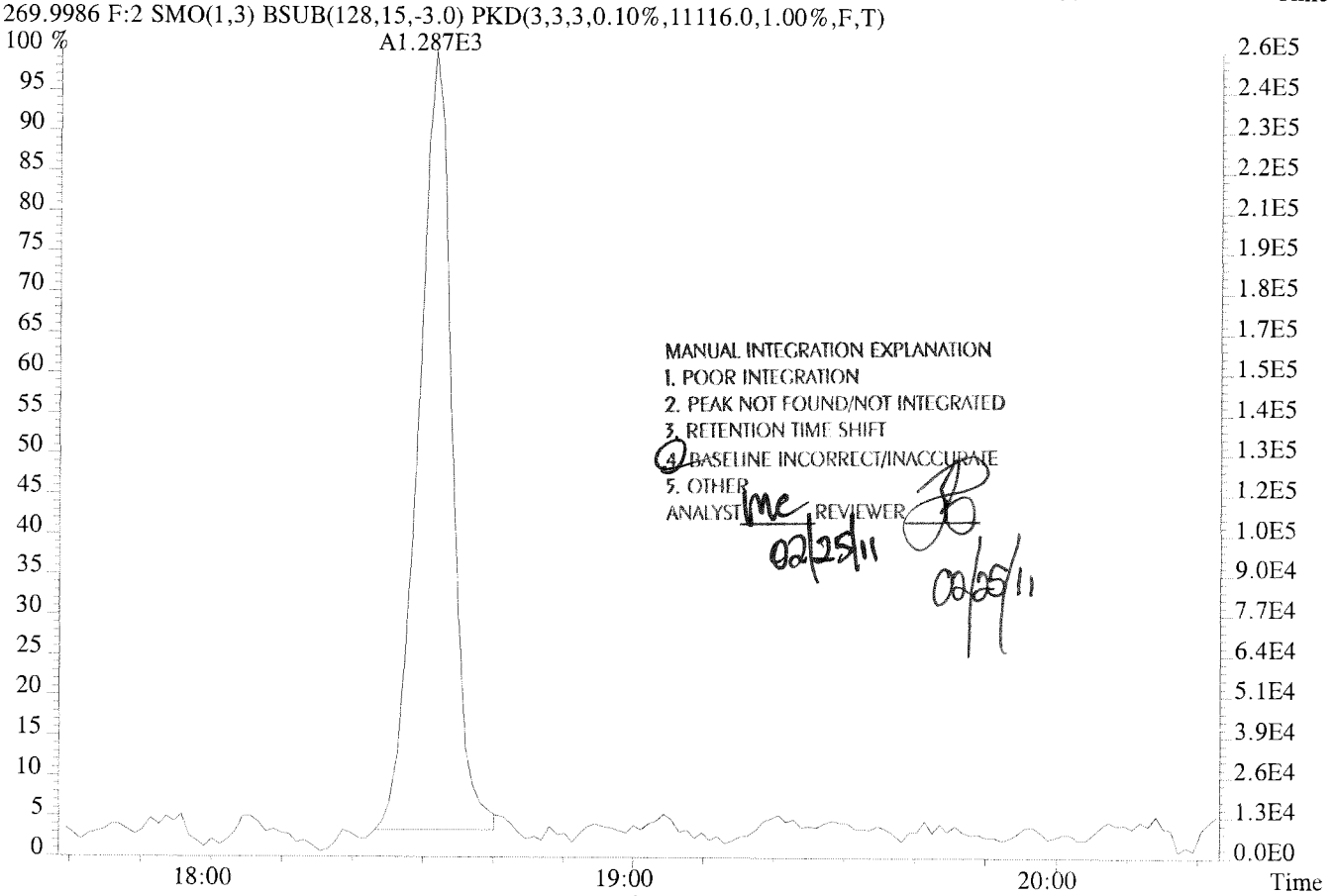
242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139146 #1-313 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6
268.0016 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,13024.0,1.00%,F,T)



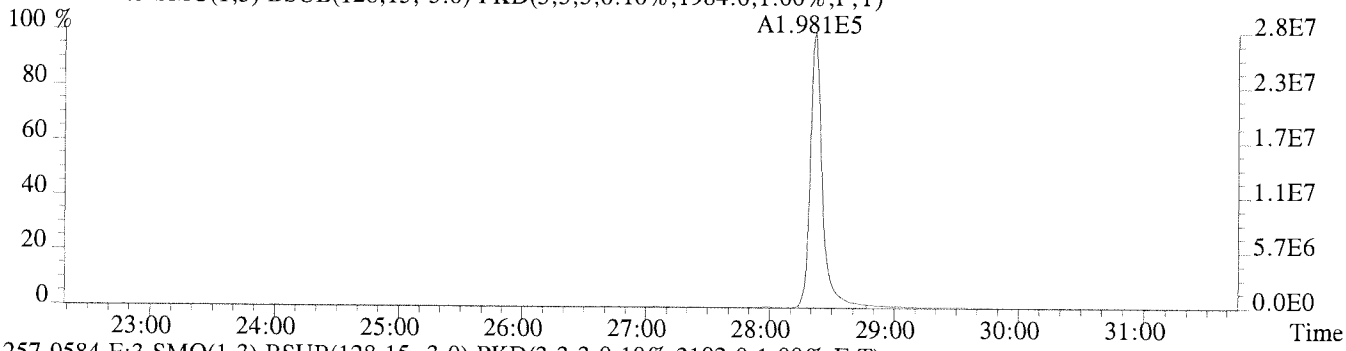
269.9986 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,11116.0,1.00%,F,T)



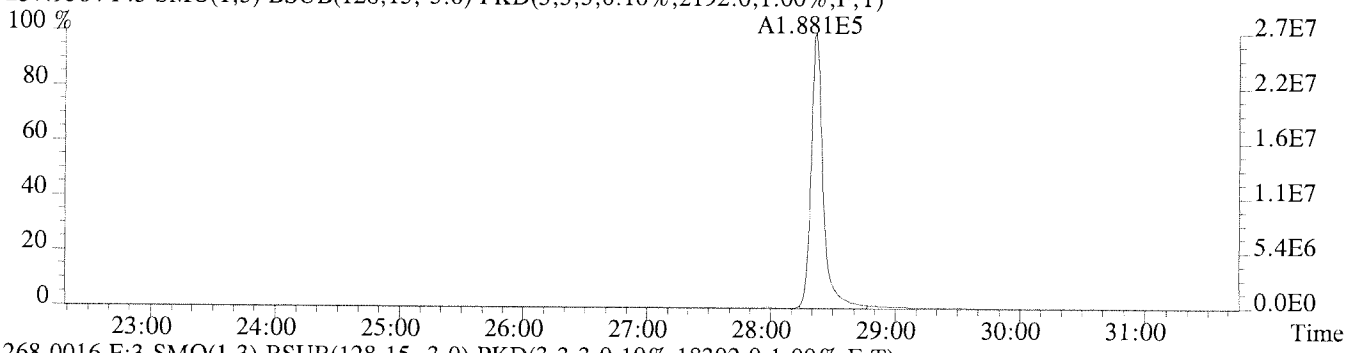
MANUAL INTEGRATION EXPLANATION
1. POOR INTEGRATION
2. PEAK NOT FOUND/NOT INTEGRATED
3. RETENTION TIME SHIFT
4. BASELINE INCORRECT/INACCURATE
5. OTHER
ANALYST mc REVIEWER
02/25/11
02/25/11

File:U139146 #1-604 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

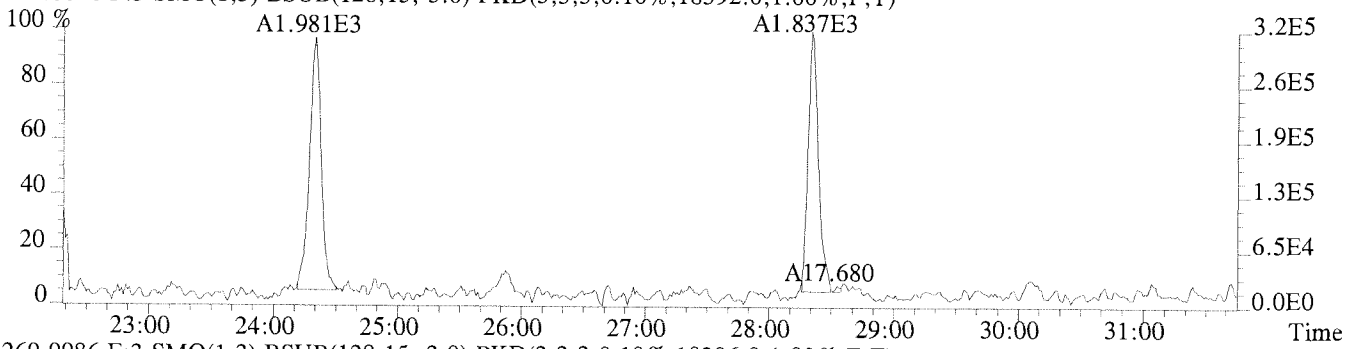
255.9613 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1984.0,1.00%,F,T)



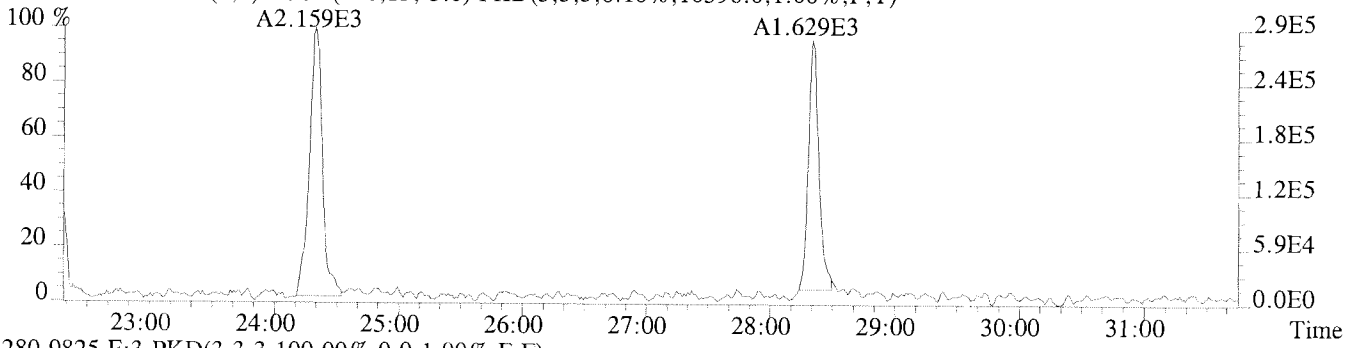
257.9584 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2192.0,1.00%,F,T)



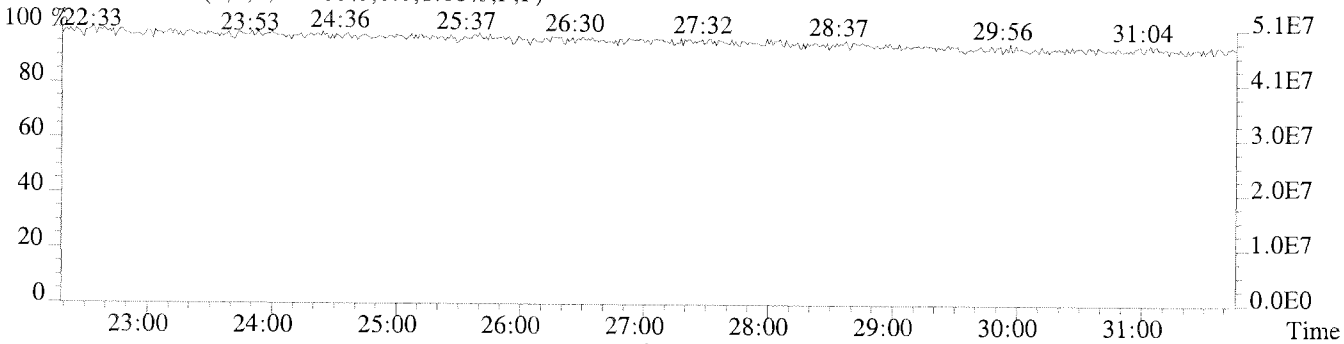
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18392.0,1.00%,F,T)



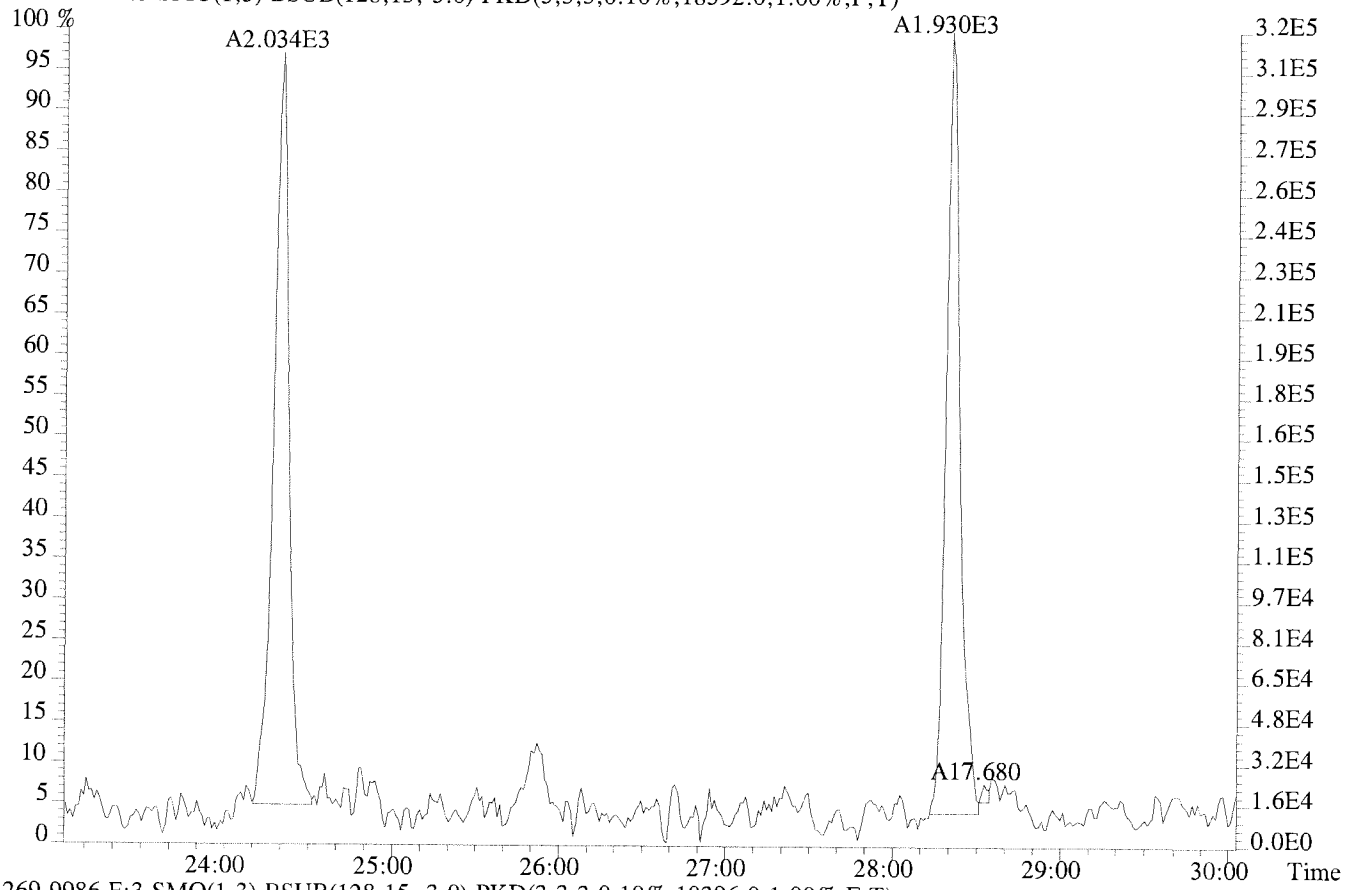
269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10396.0,1.00%,F,T)



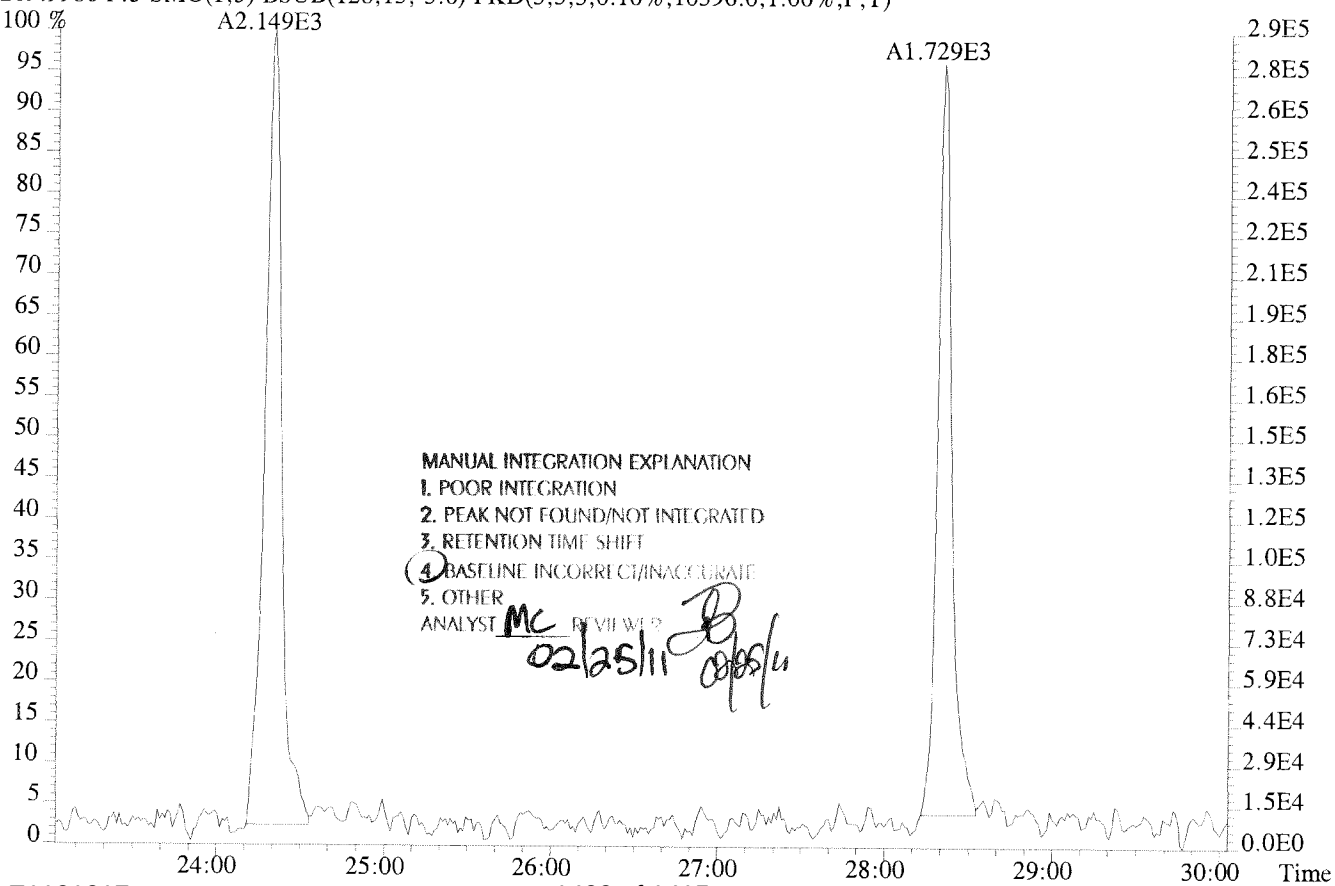
280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)



File:U139146 #1-604 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6
268.0016 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,18392.0,1.00%,F,T)

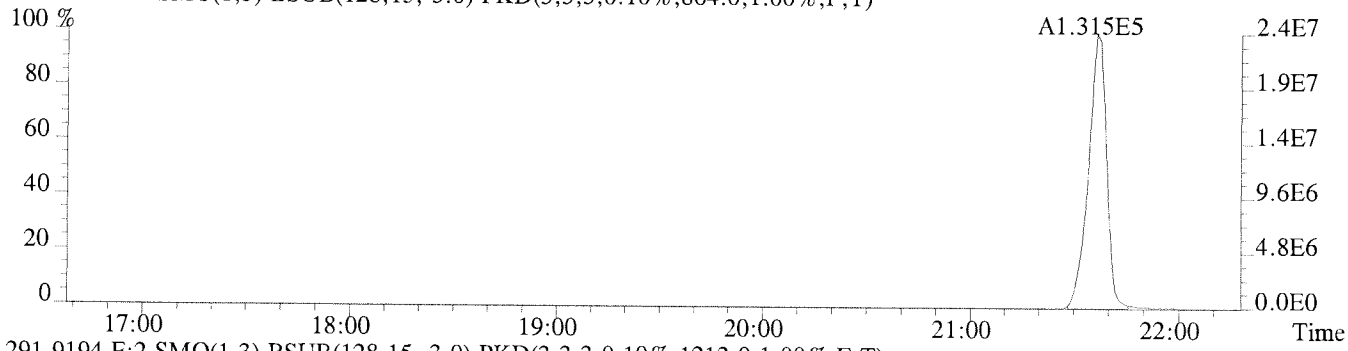


269.9986 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,10396.0,1.00%,F,T)

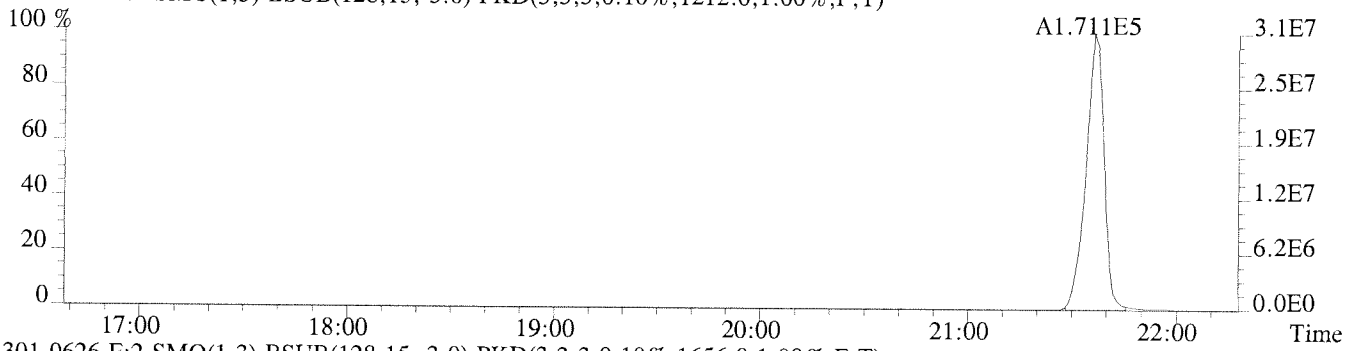


File:U139146 #1-313 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

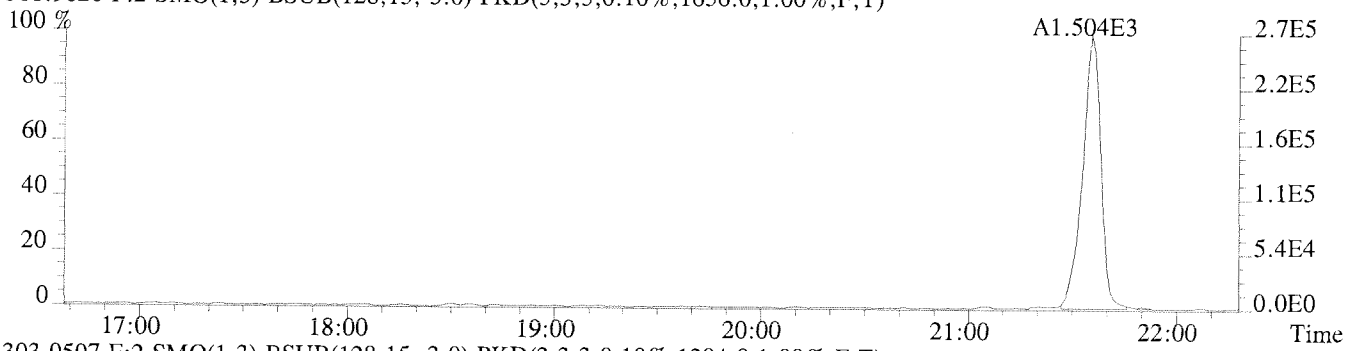
289.9224 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,864.0,1.00%,F,T)



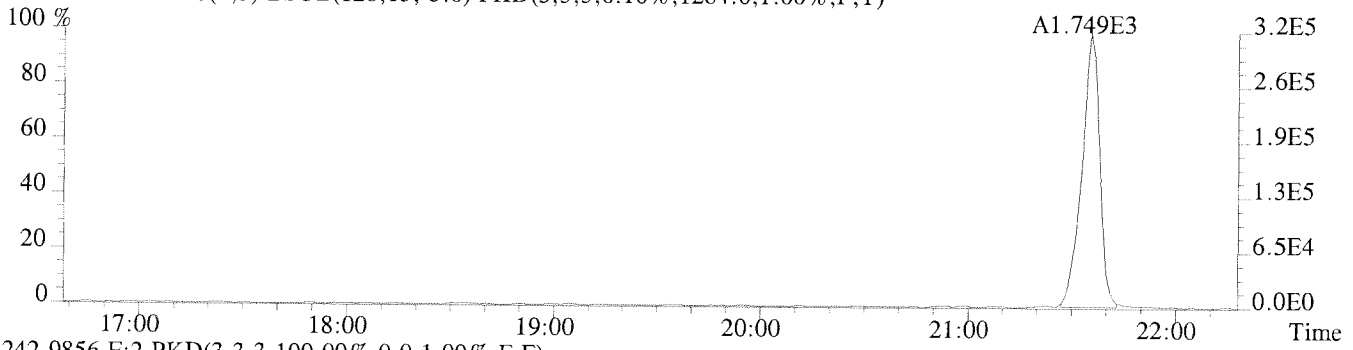
291.9194 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1212.0,1.00%,F,T)



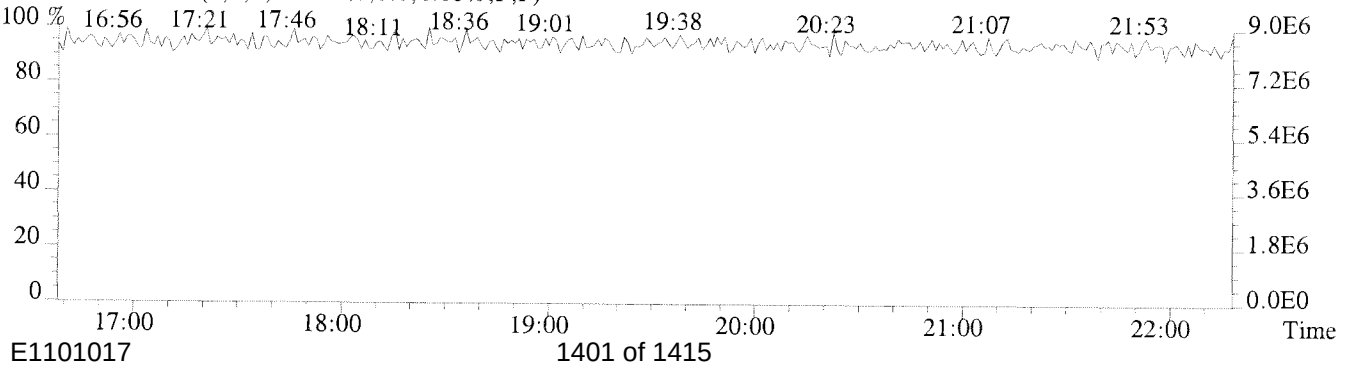
301.9626 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1656.0,1.00%,F,T)



303.9597 F:2 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1284.0,1.00%,F,T)

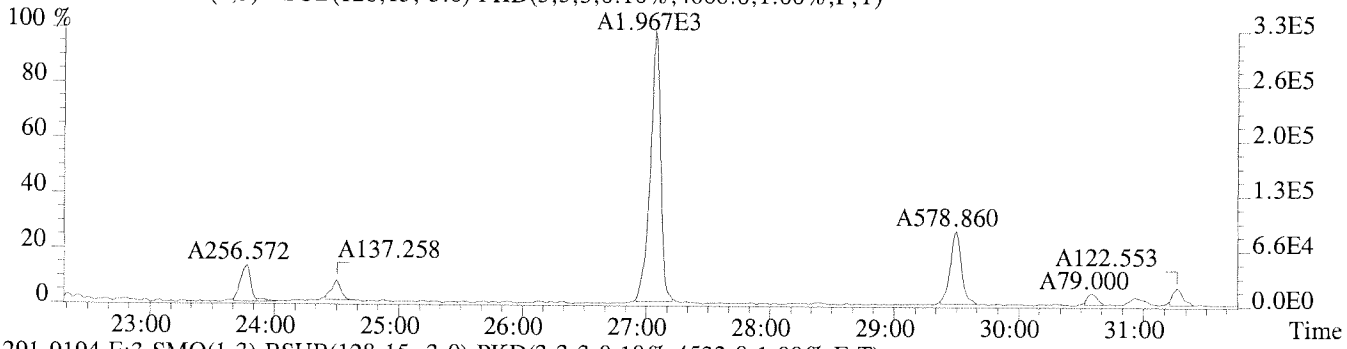


242.9856 F:2 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

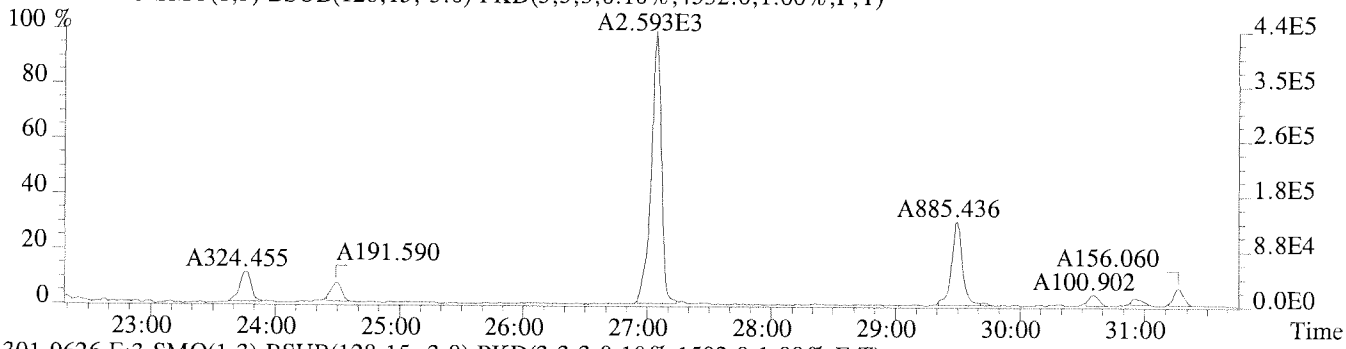


File:U139146 #1-604 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

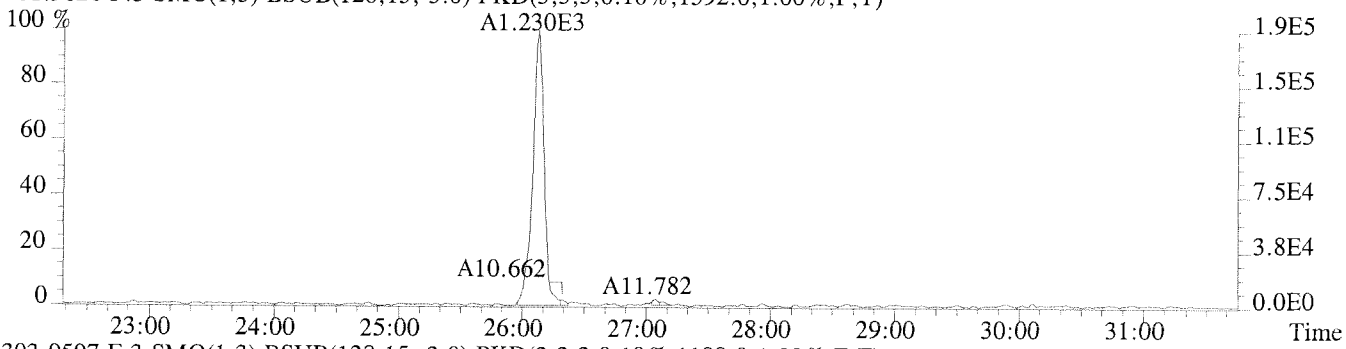
289.9224 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4068.0,1.00%,F,T)



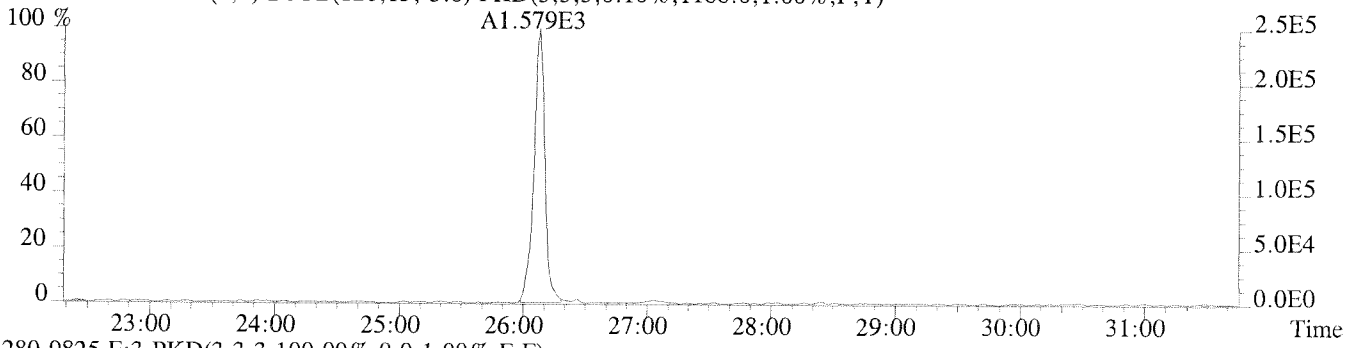
291.9194 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,4532.0,1.00%,F,T)



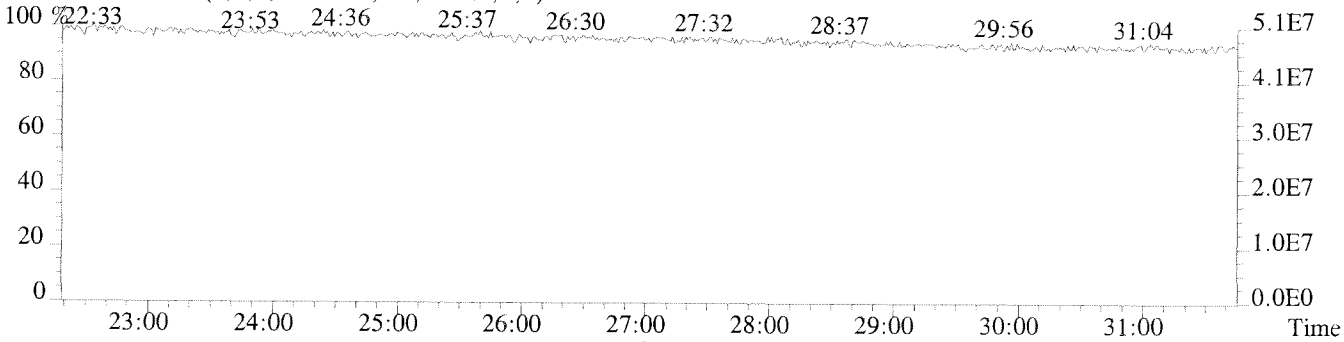
301.9626 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1592.0,1.00%,F,T)



303.9597 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1188.0,1.00%,F,T)

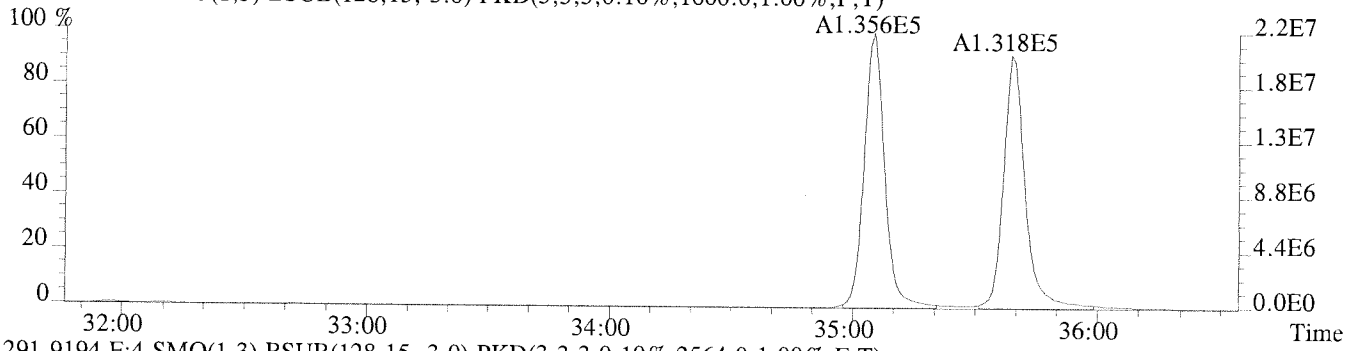


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

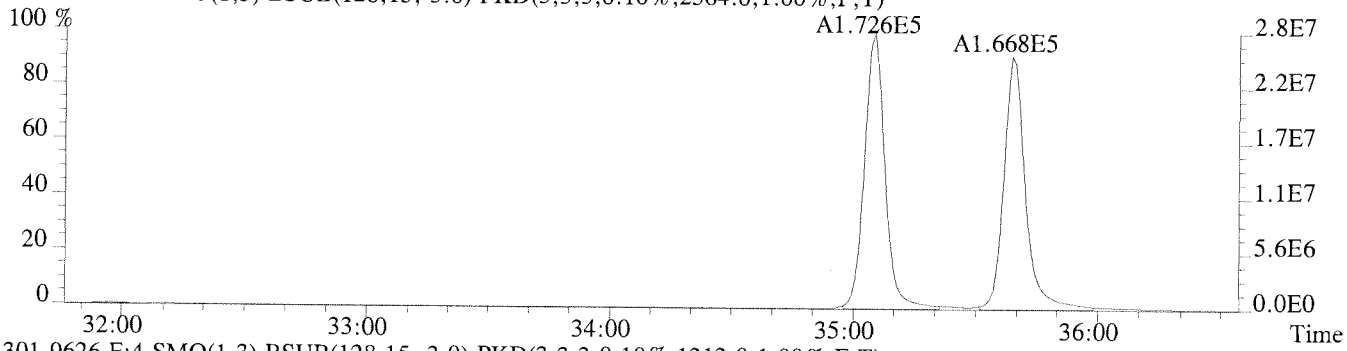


File:U139146 #1-308 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

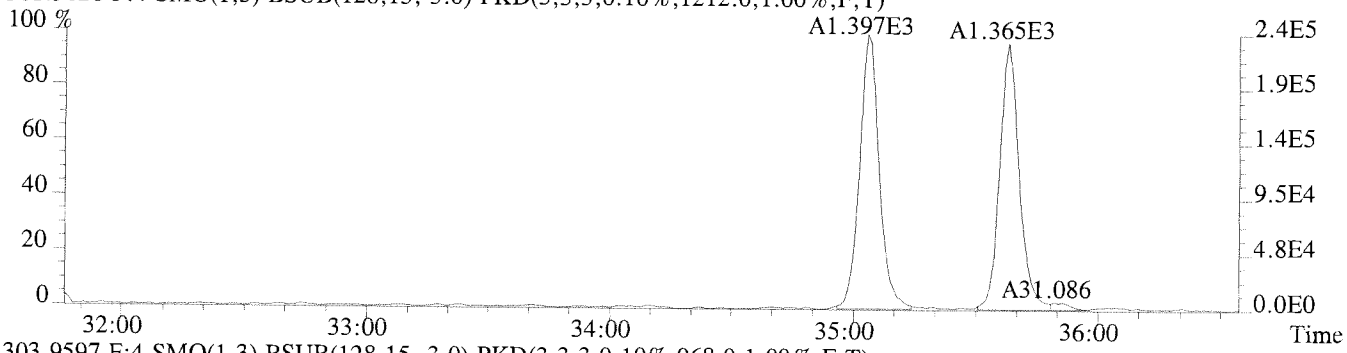
289.9224 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1600.0,1.00%,F,T)



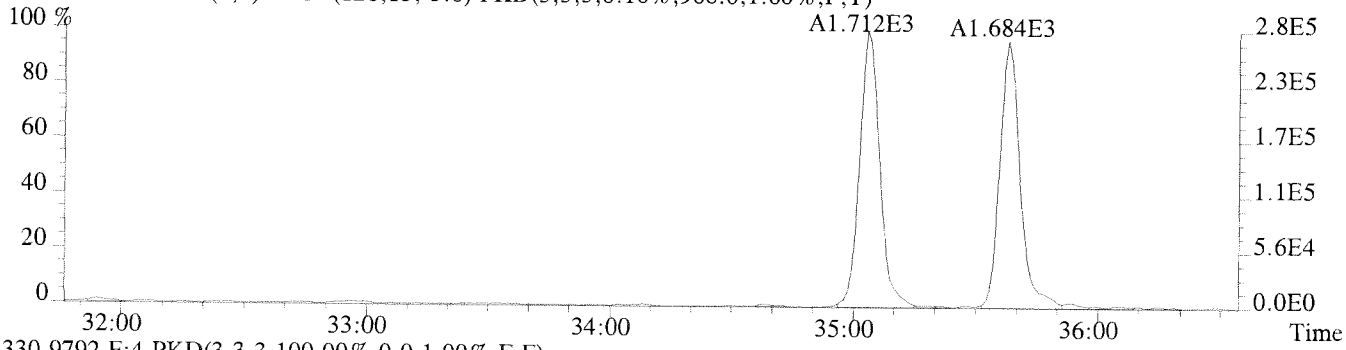
291.9194 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2564.0,1.00%,F,T)



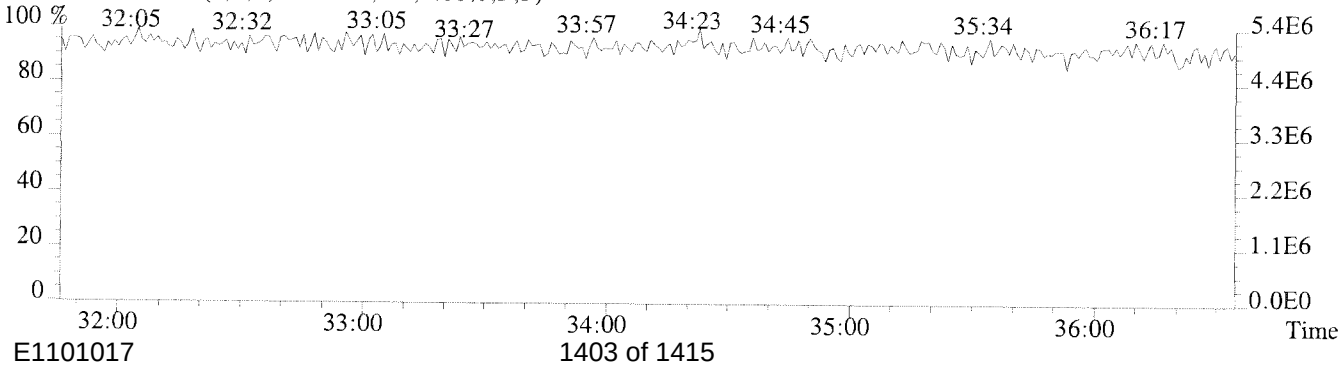
301.9626 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1212.0,1.00%,F,T)



303.9597 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,968.0,1.00%,F,T)

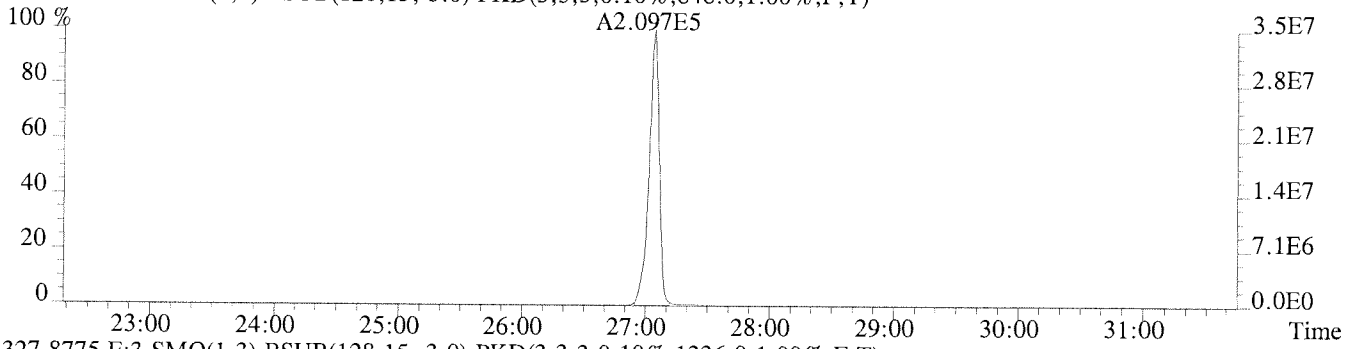


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

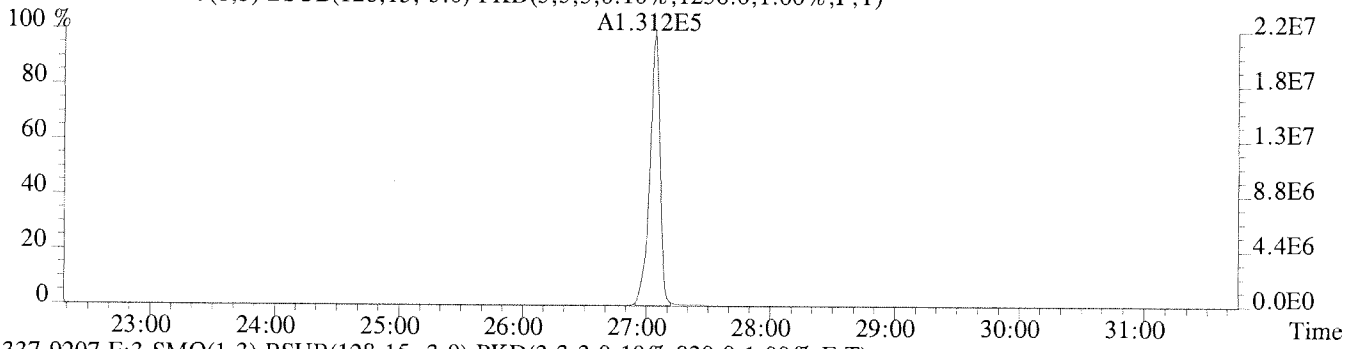


File:U139146 #1-604 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

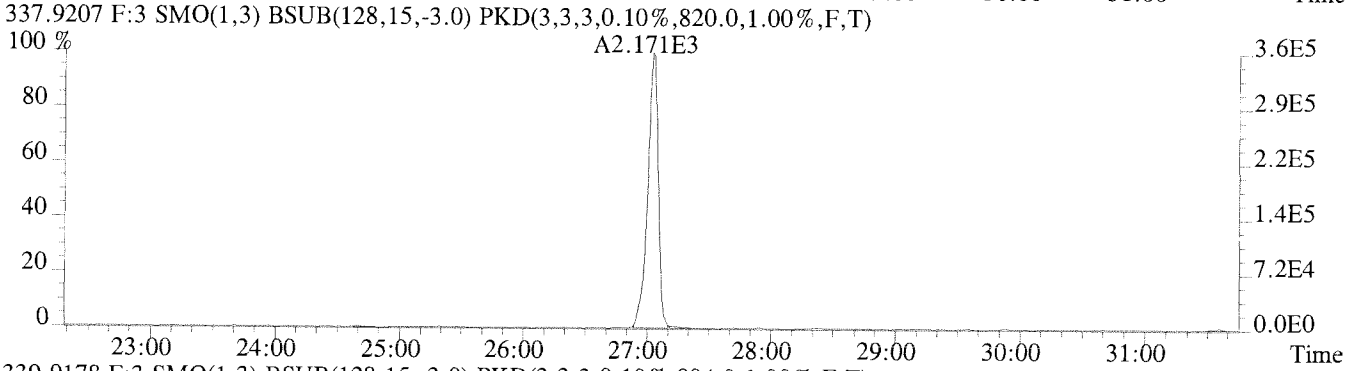
325.8804 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,848.0,1.00%,F,T)



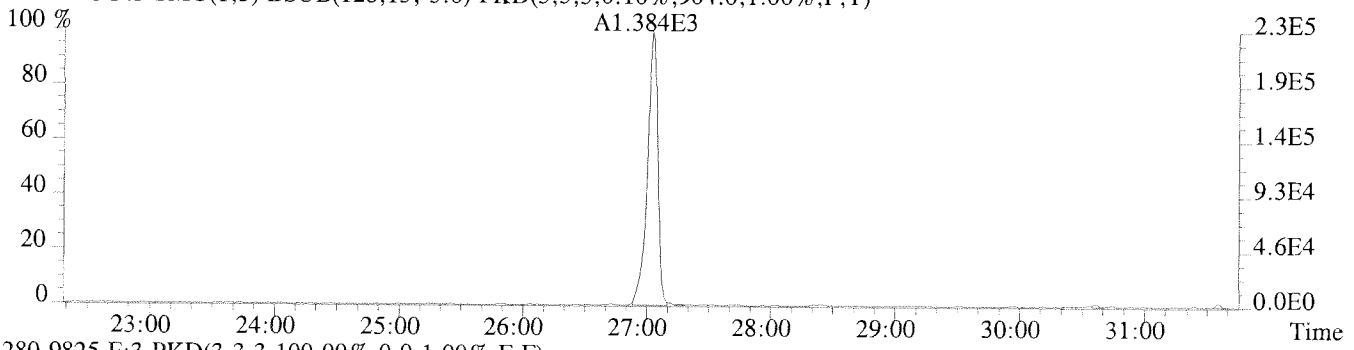
327.8775 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1236.0,1.00%,F,T)



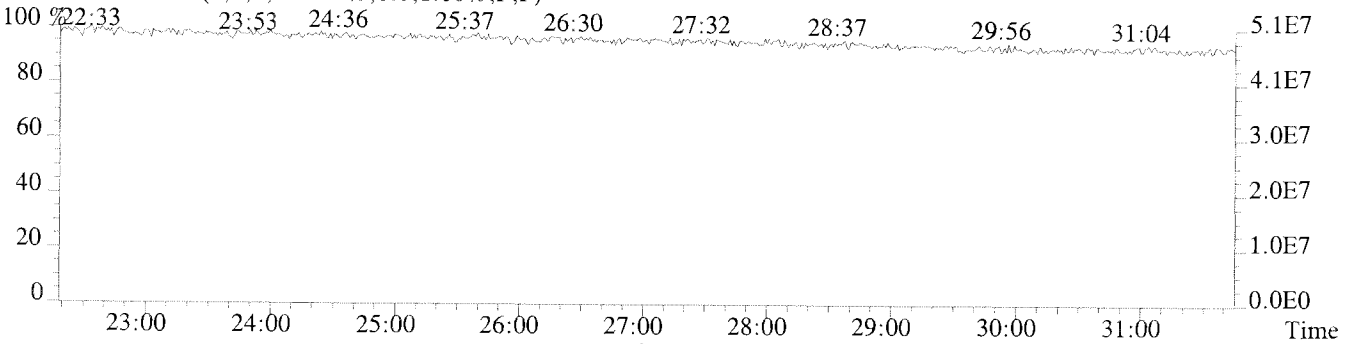
337.9207 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,820.0,1.00%,F,T)



339.9178 F:3 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,904.0,1.00%,F,T)

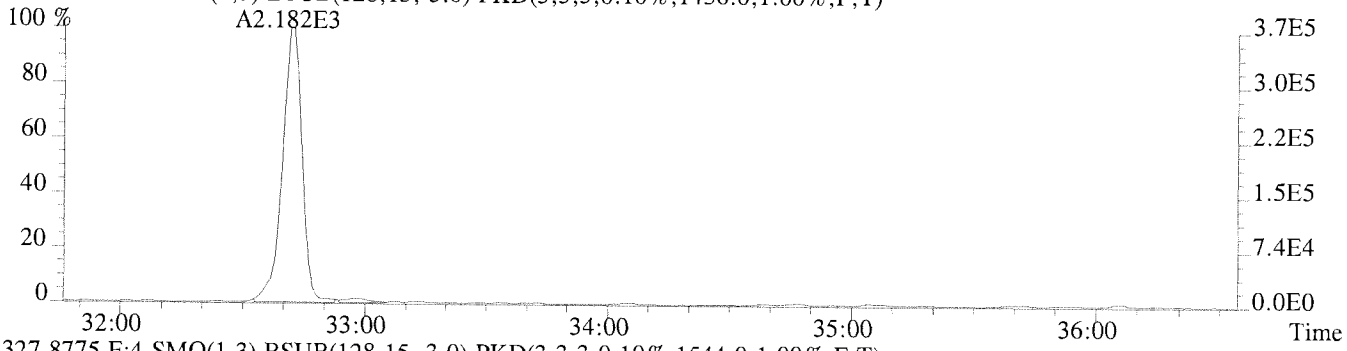


280.9825 F:3 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

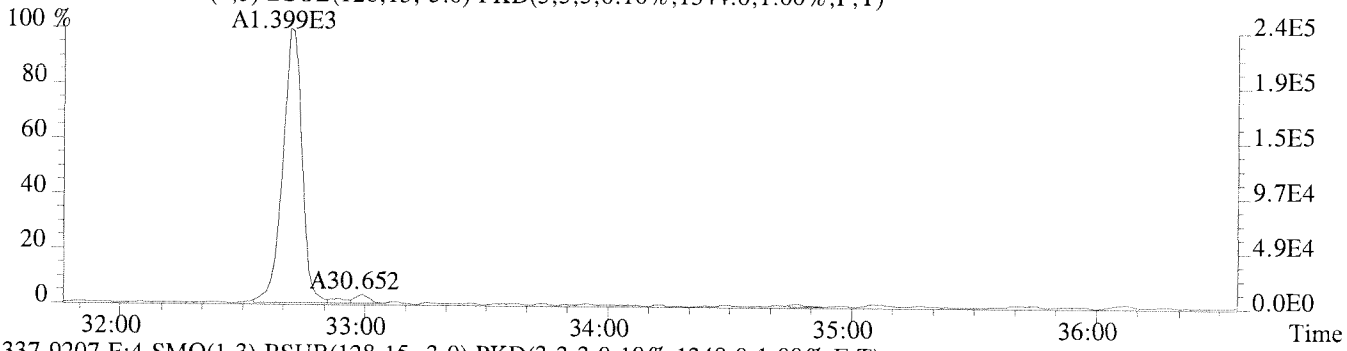


File:U139146 #1-308 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

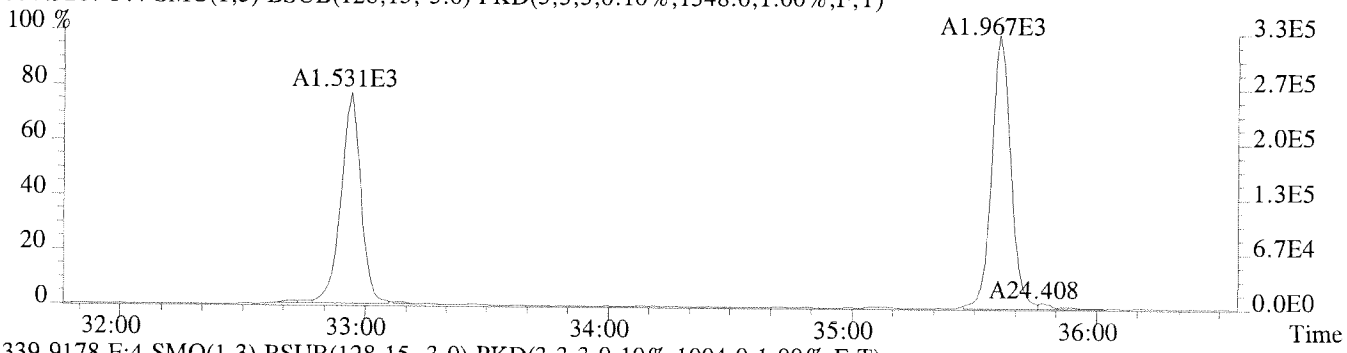
325.8804 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1456.0,1.00%,F,T)



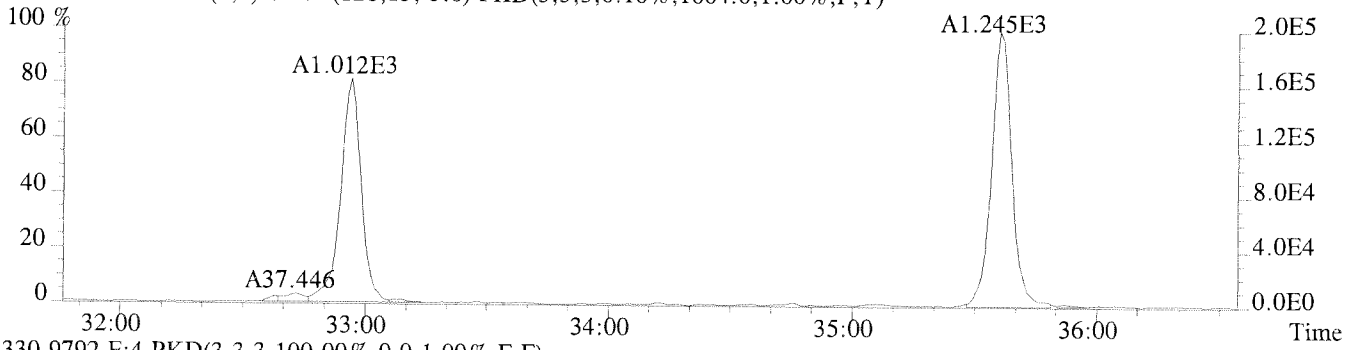
327.8775 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1544.0,1.00%,F,T)



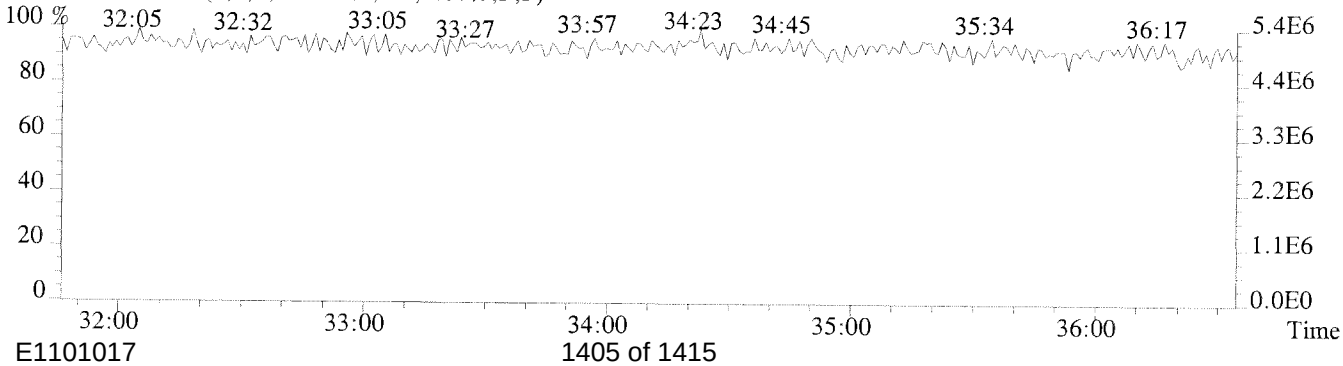
337.9207 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1348.0,1.00%,F,T)



339.9178 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)

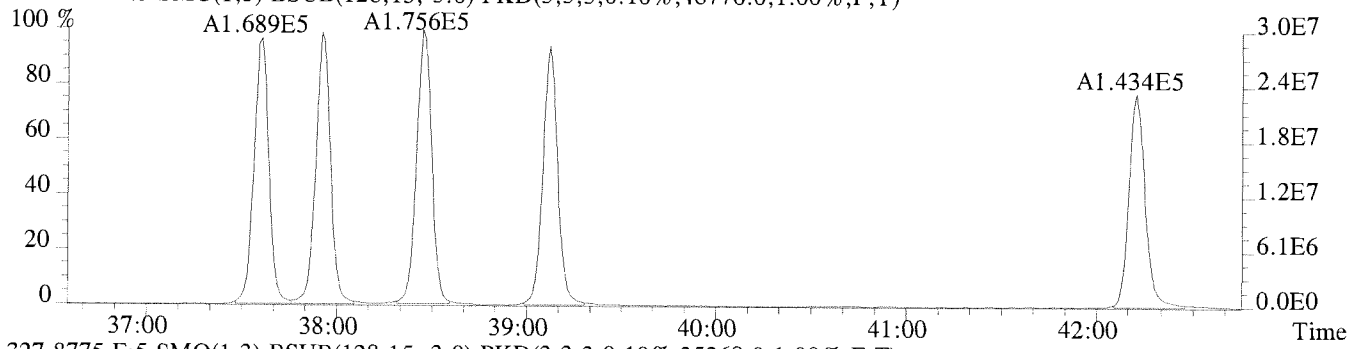


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

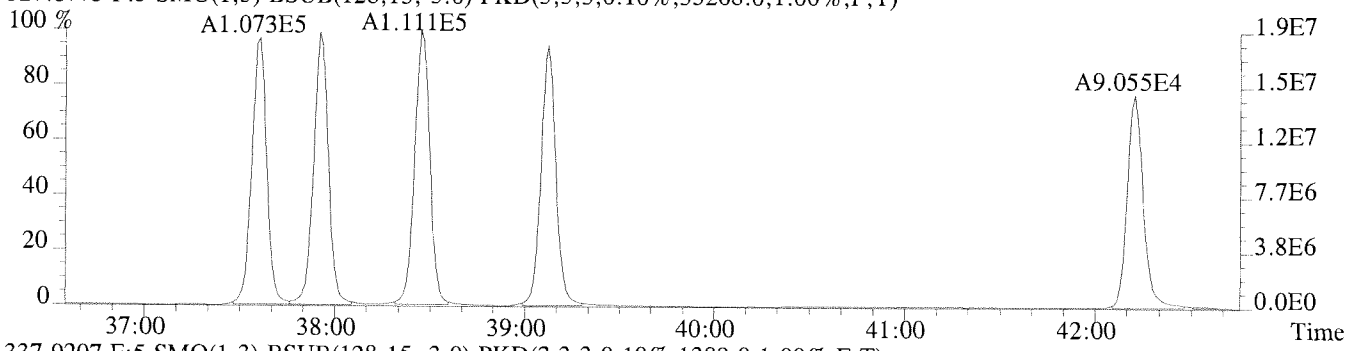


File:U139146 #1-395 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

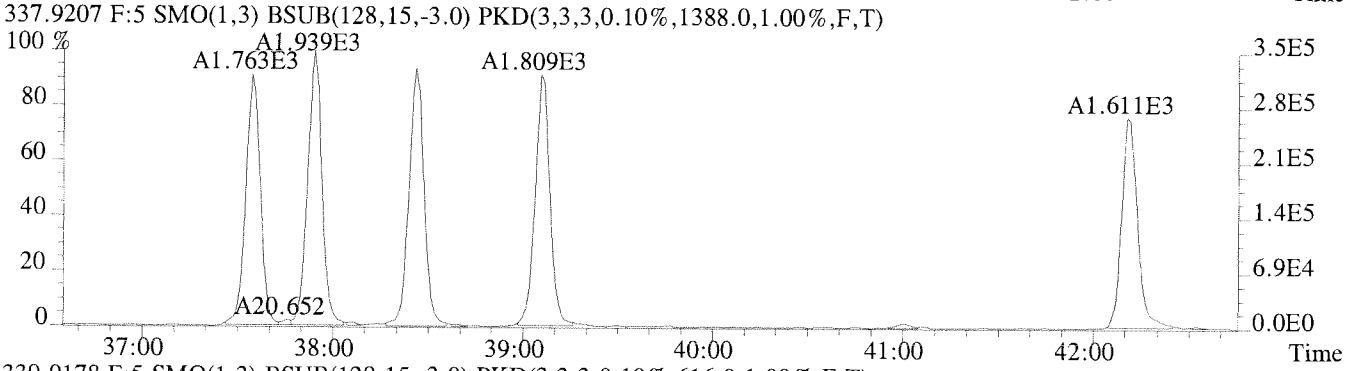
325.8804 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,48776.0,1.00%,F,T)



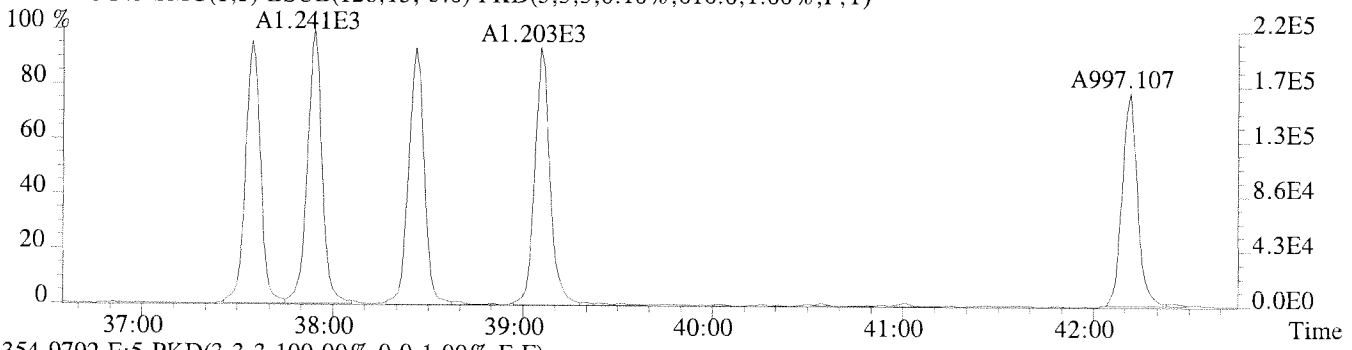
327.8775 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,35268.0,1.00%,F,T)



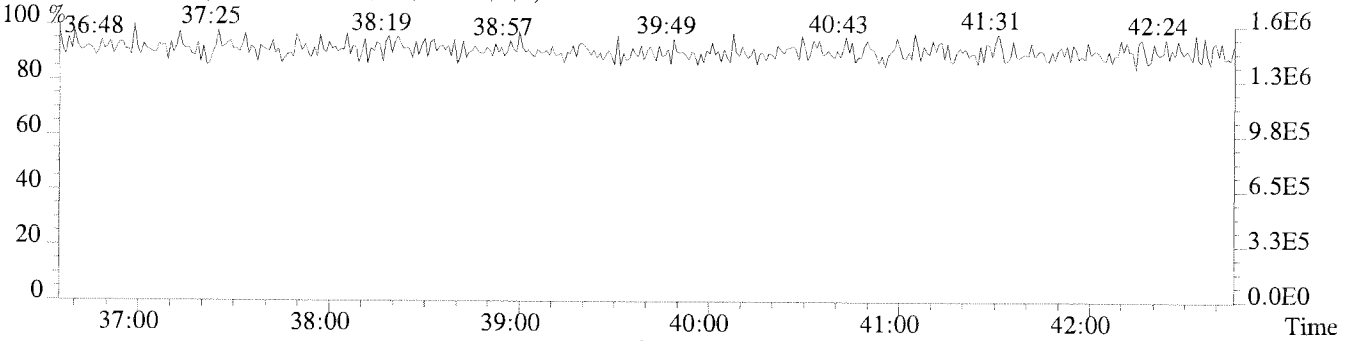
337.9207 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1388.0,1.00%,F,T)



339.9178 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,616.0,1.00%,F,T)

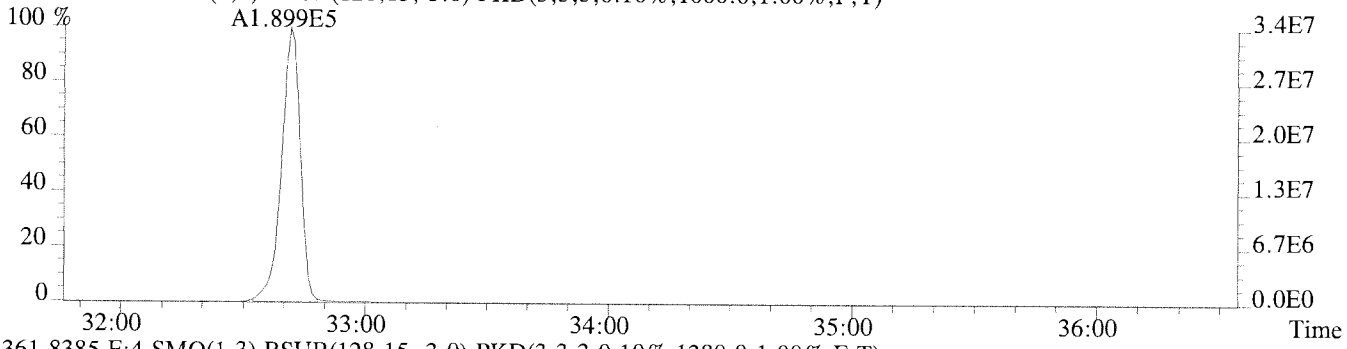


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

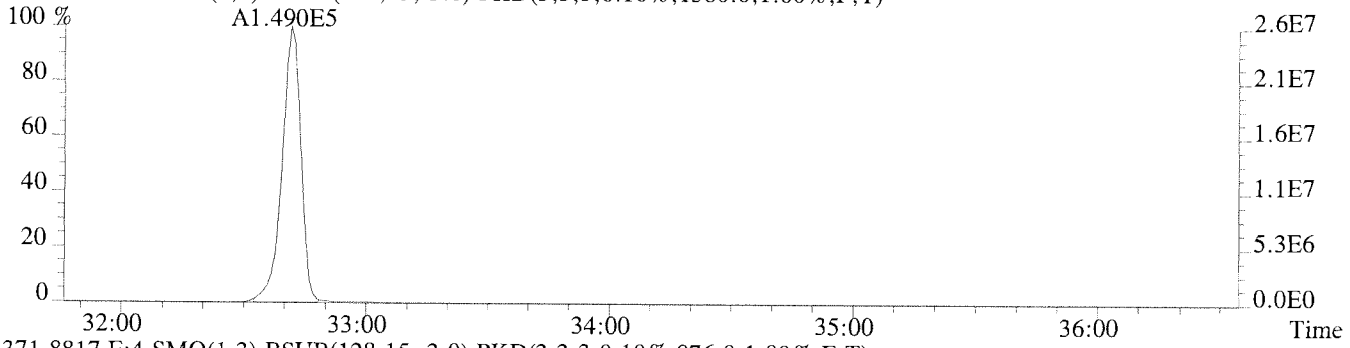


File:U139146 #1-308 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:1CAL CS6

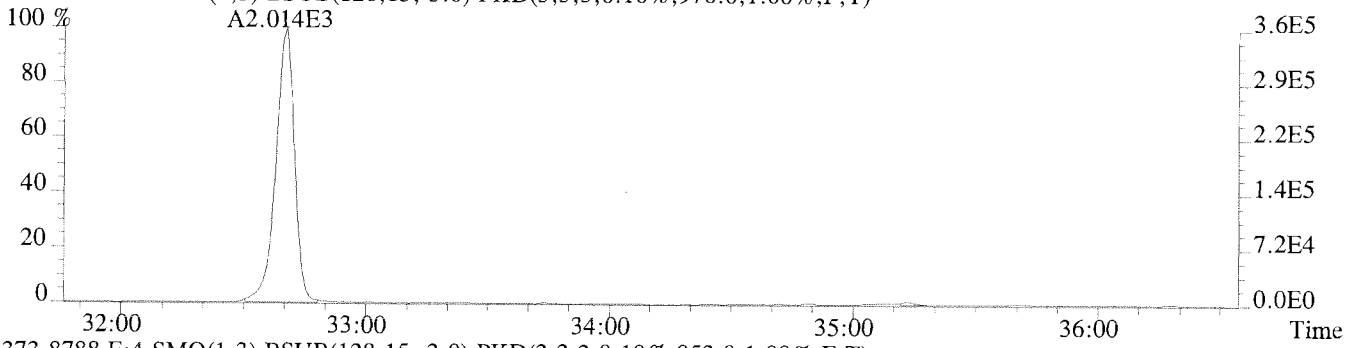
359.8415 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1000.0,1.00%,F,T)



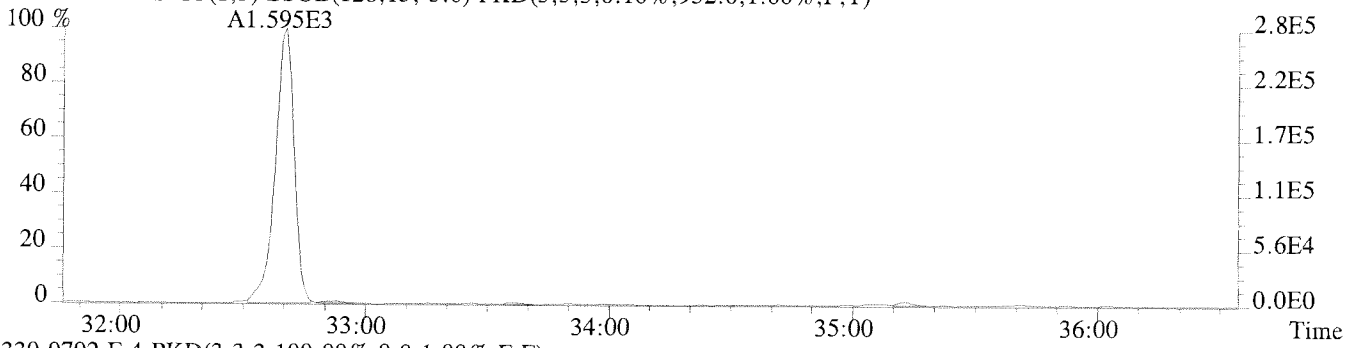
361.8385 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1380.0,1.00%,F,T)



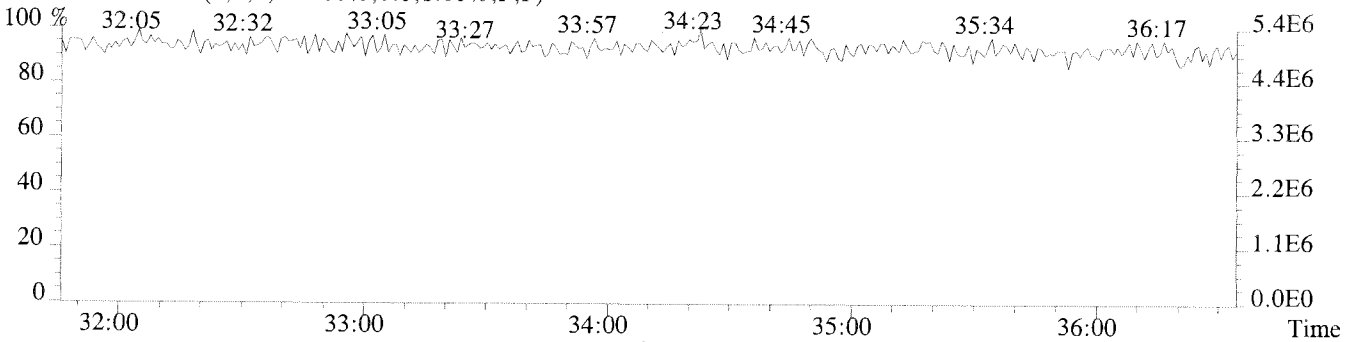
371.8817 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,976.0,1.00%,F,T)



373.8788 F:4 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,952.0,1.00%,F,T)

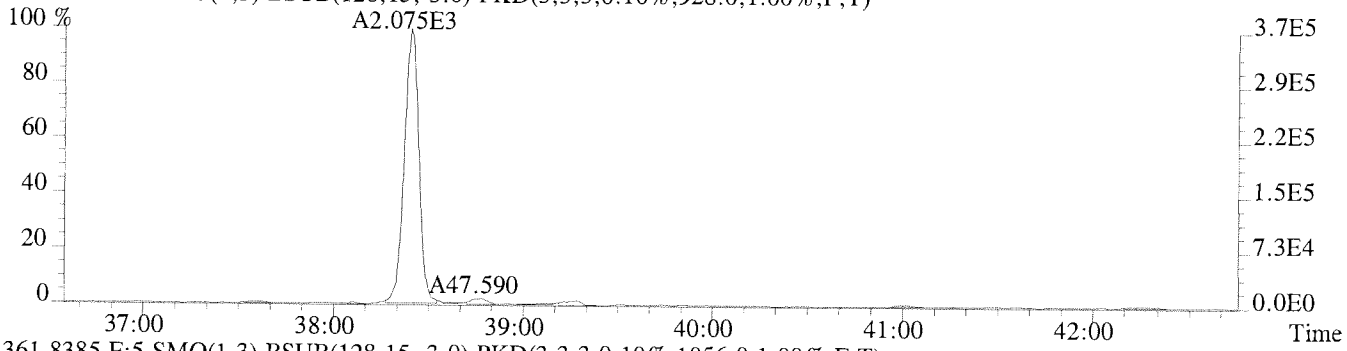


330.9792 F:4 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

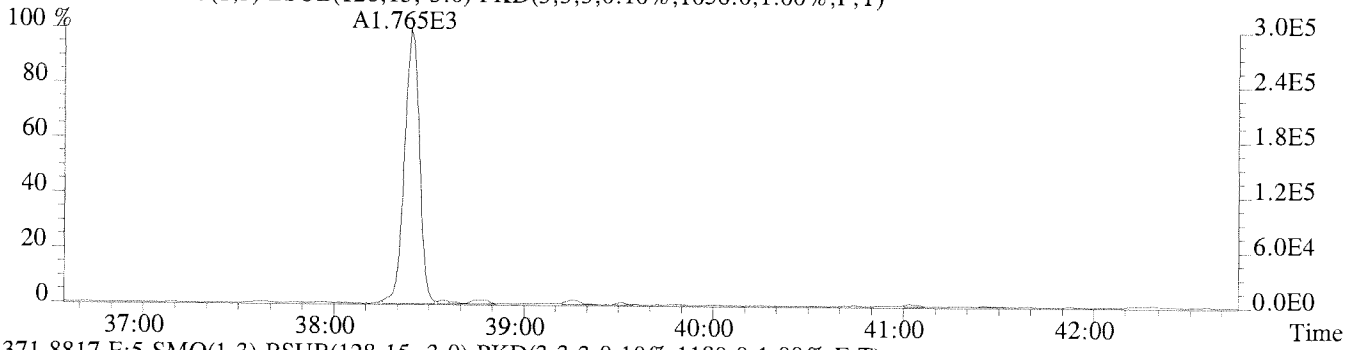


File:U139146 #1-395 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

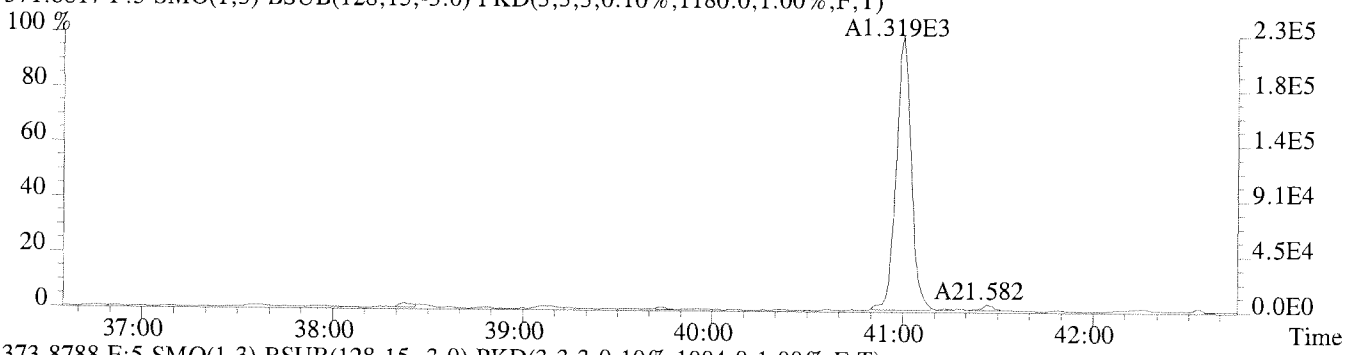
359.8415 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,928.0,1.00%,F,T)



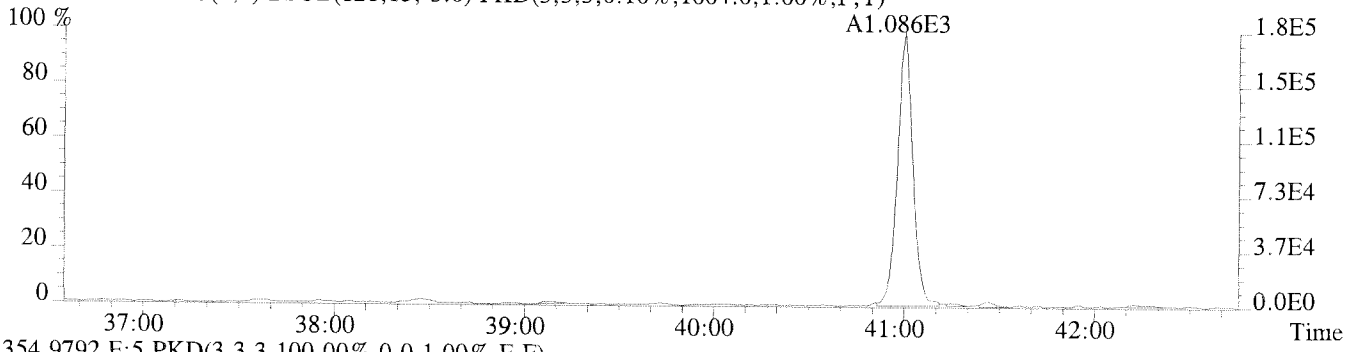
361.8385 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1056.0,1.00%,F,T)



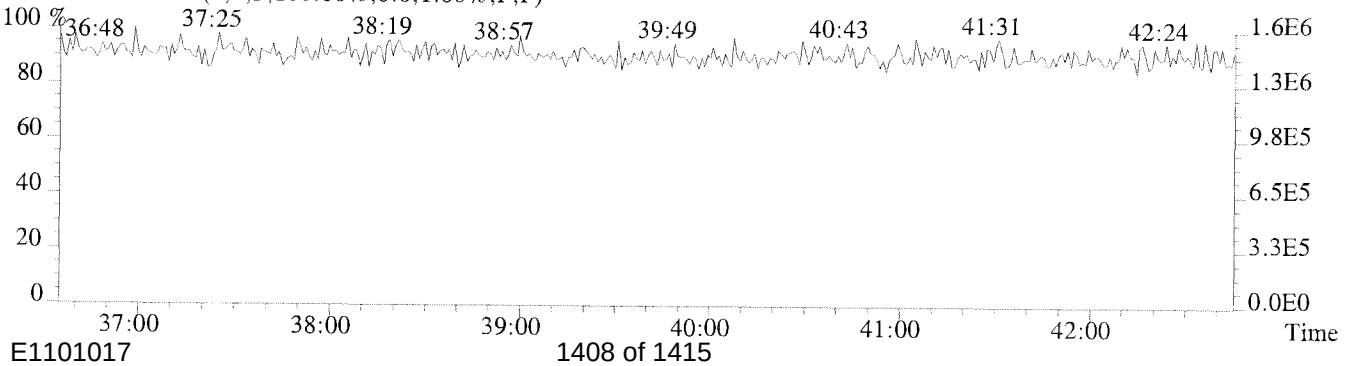
371.8817 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1180.0,1.00%,F,T)



373.8788 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1004.0,1.00%,F,T)

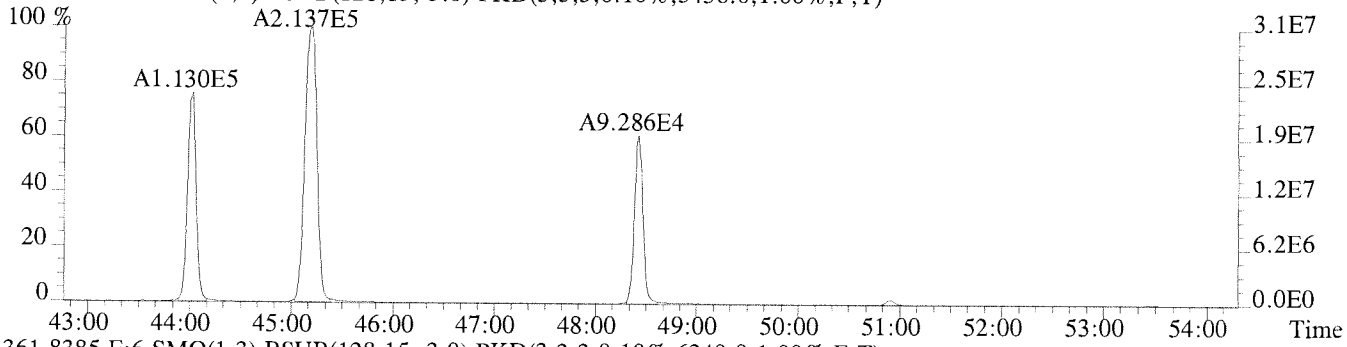


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

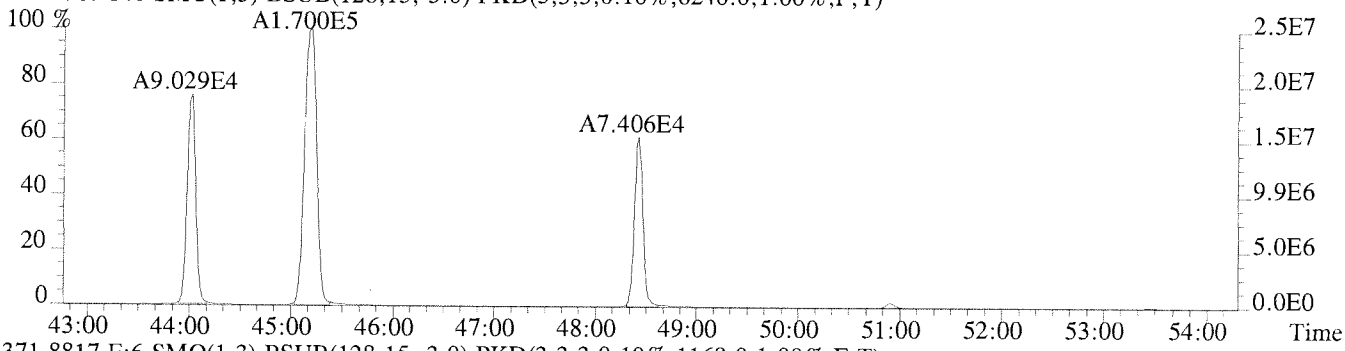


File:U139146 #1-572 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

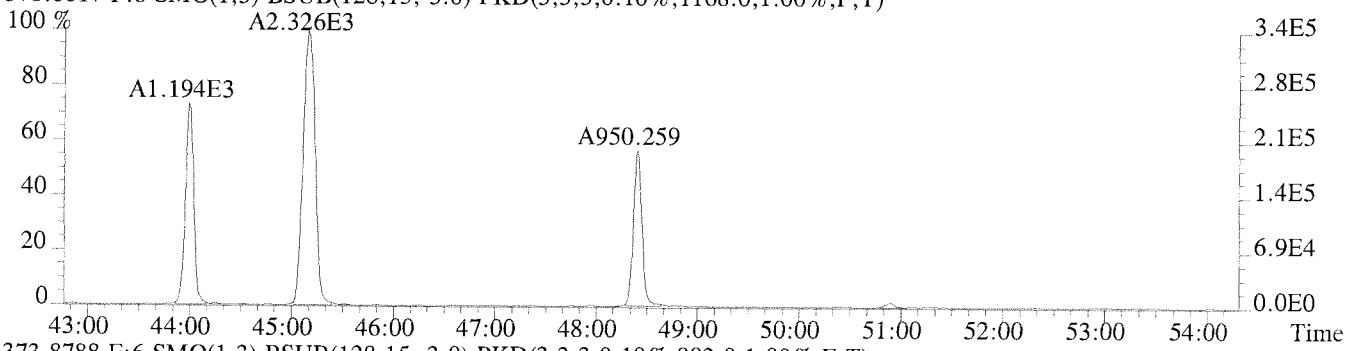
359.8415 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,5456.0,1.00%,F,T)



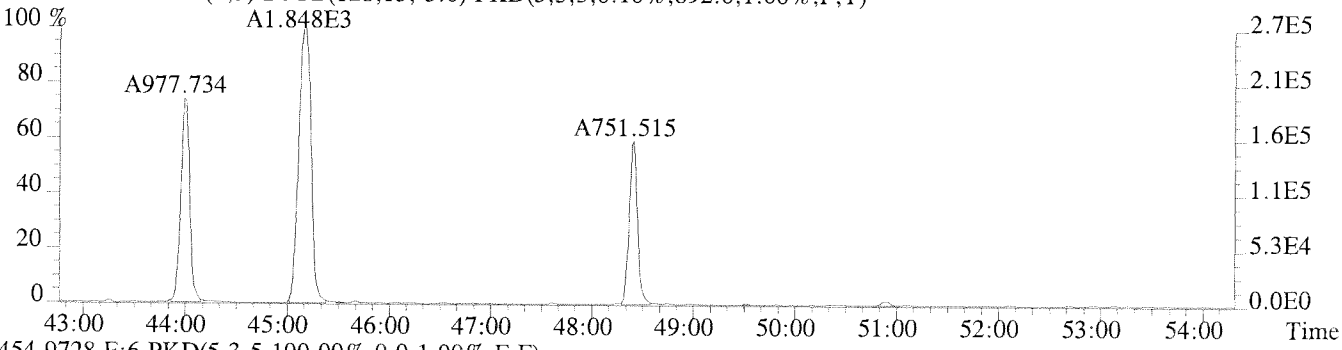
361.8385 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,6240.0,1.00%,F,T)



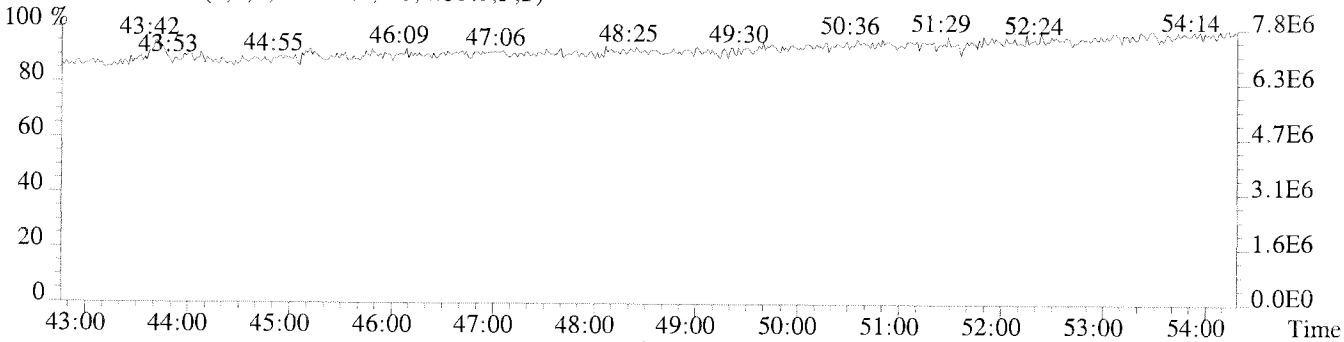
371.8817 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1168.0,1.00%,F,T)



373.8788 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,892.0,1.00%,F,T)

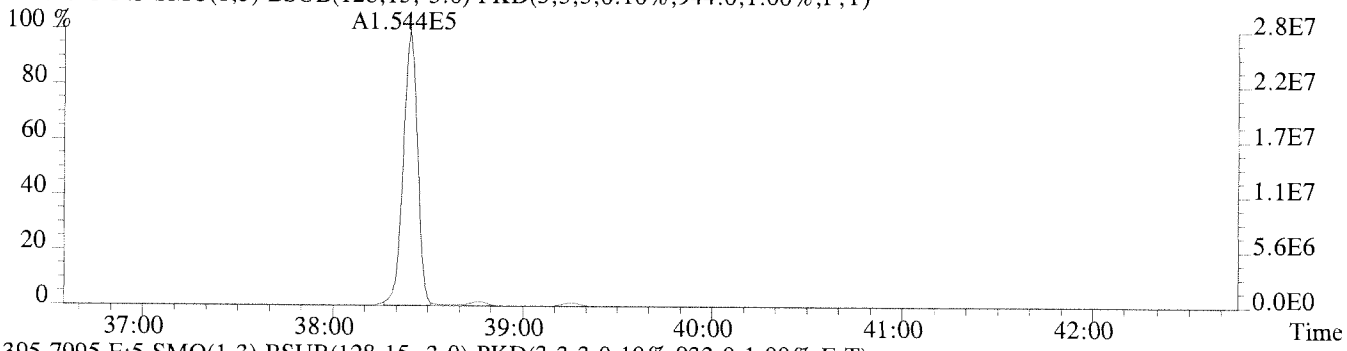


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

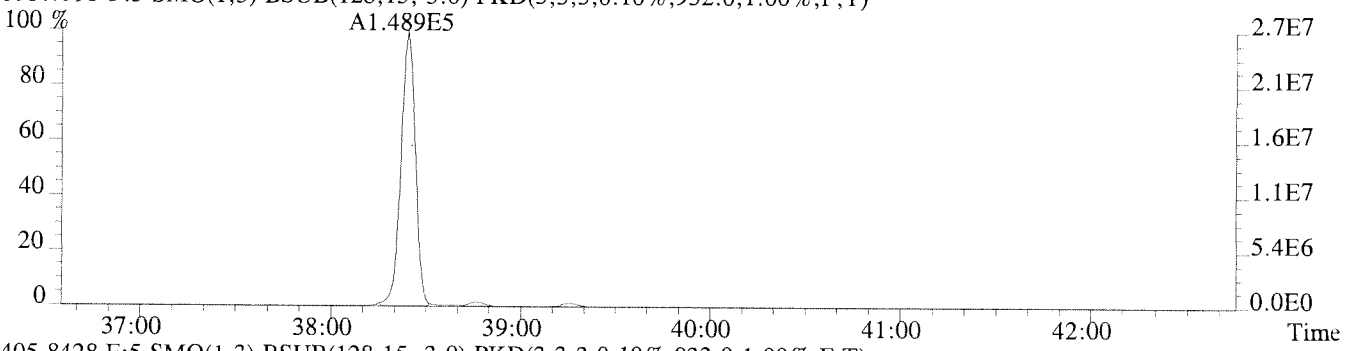


File:U139146 #1-395 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

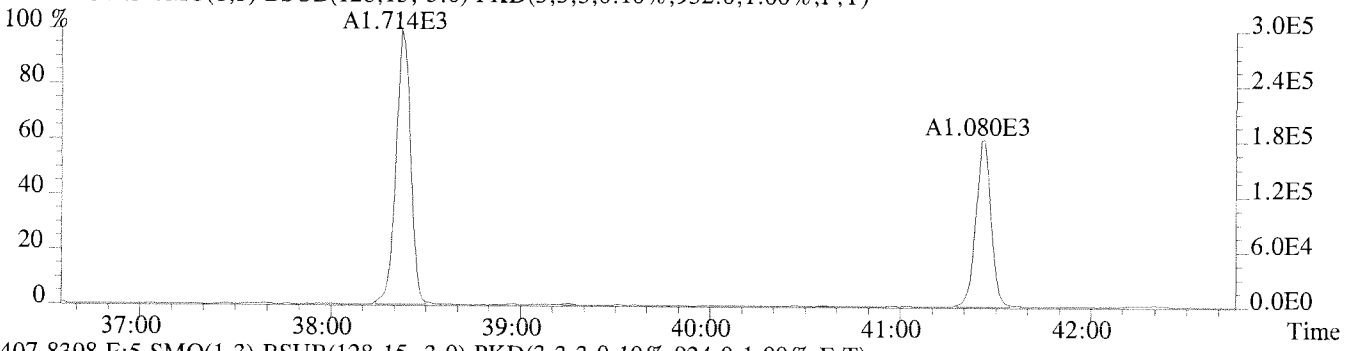
393.8025 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,944.0,1.00%,F,T)



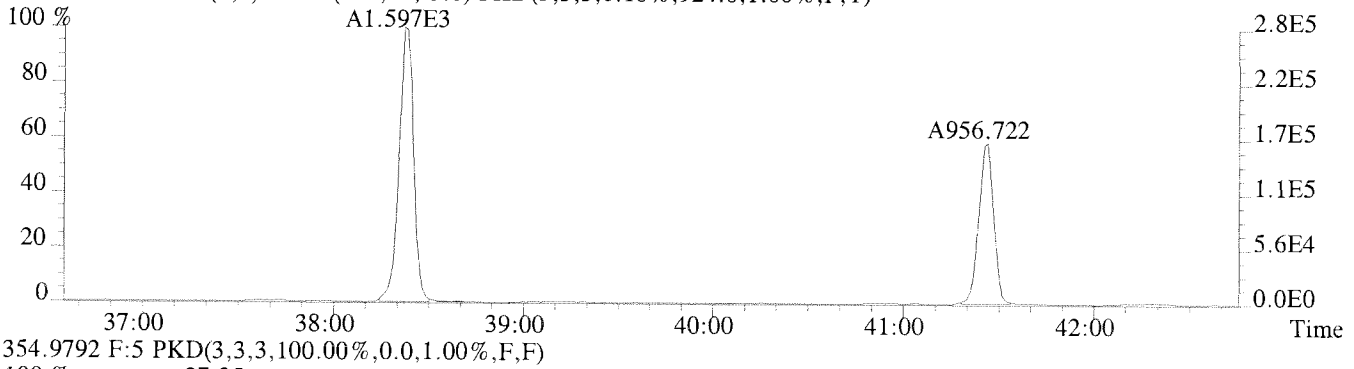
395.7995 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)



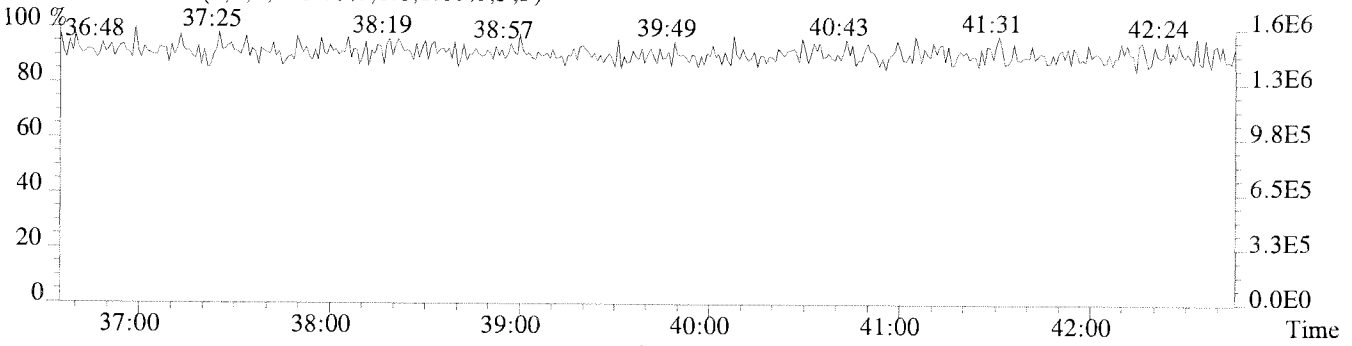
405.8428 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,932.0,1.00%,F,T)



407.8398 F:5 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,924.0,1.00%,F,T)

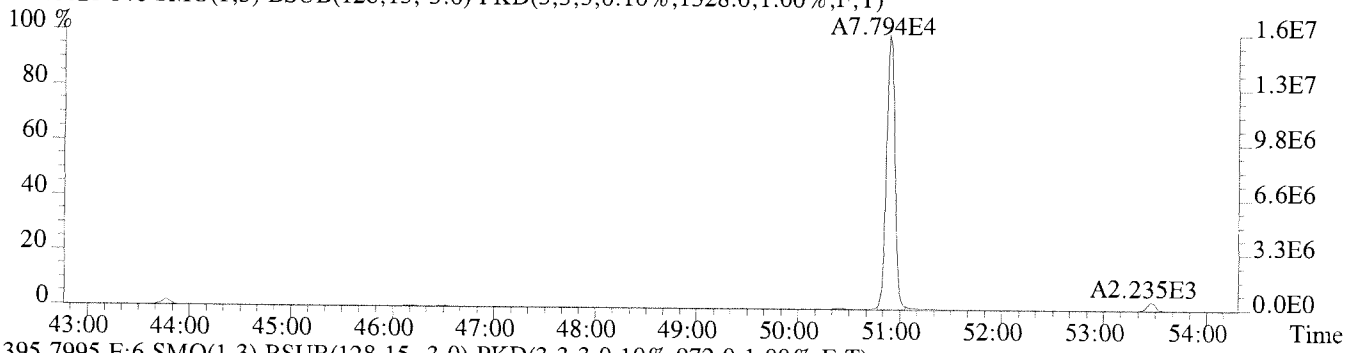


354.9792 F:5 PKD(3,3,3,100.00%,0.0,1.00%,F,F)

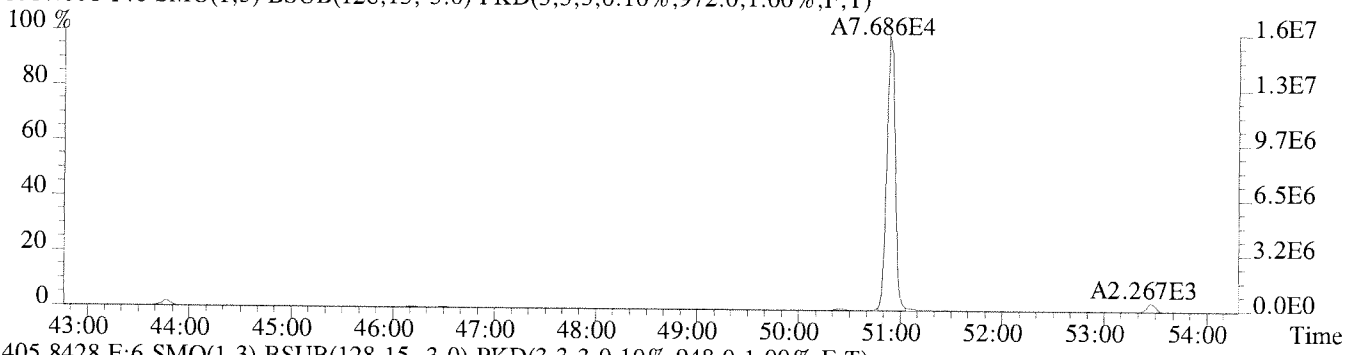


File:U139146 #1-572 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

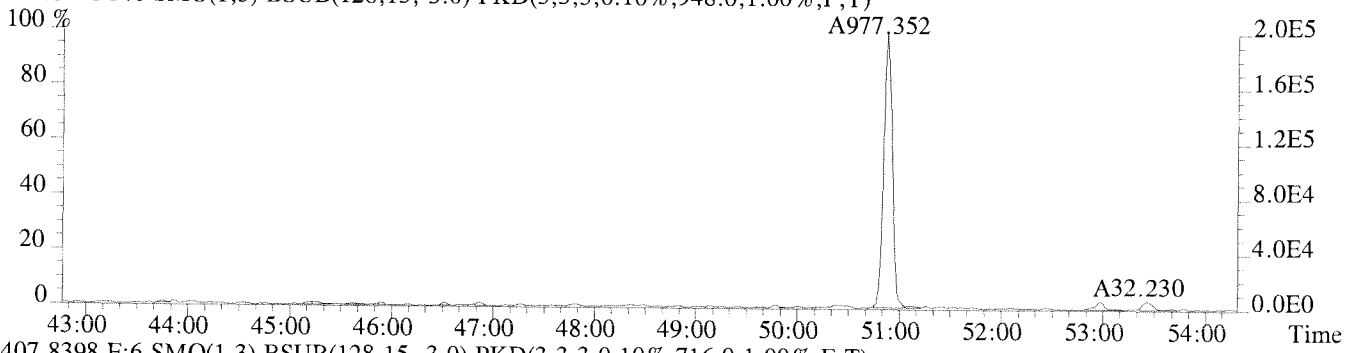
393.8025 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1528.0,1.00%,F,T)



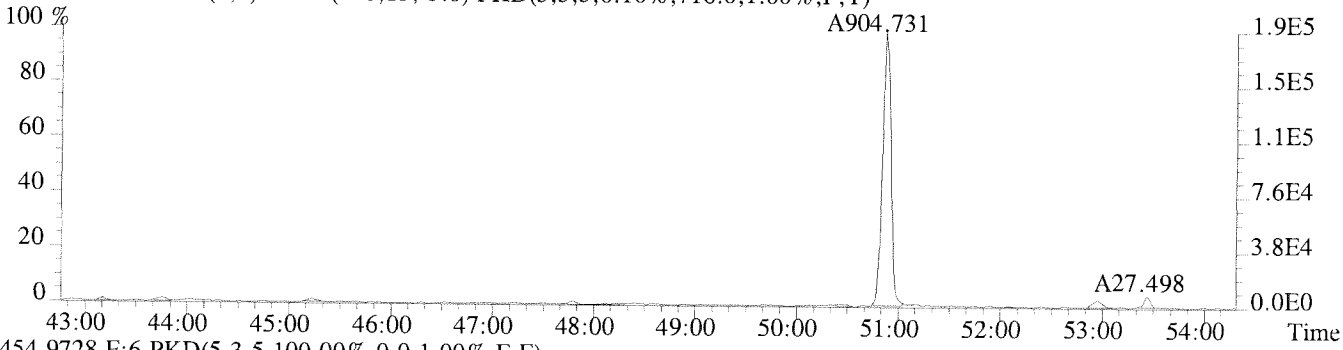
395.7995 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,972.0,1.00%,F,T)



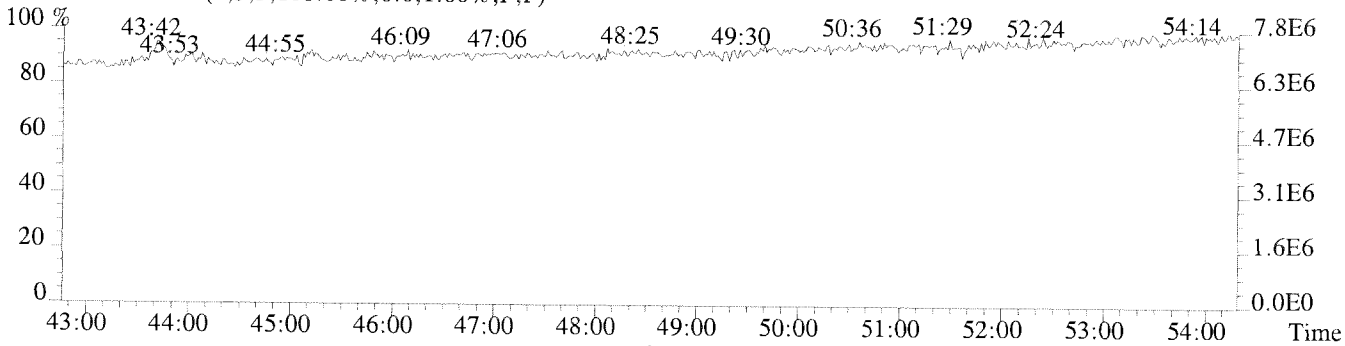
405.8428 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,948.0,1.00%,F,T)



407.8398 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)

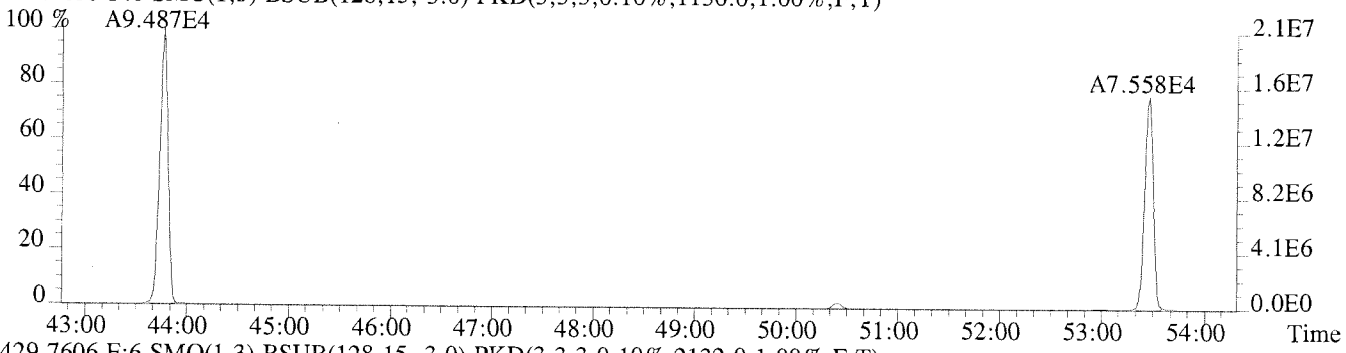


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

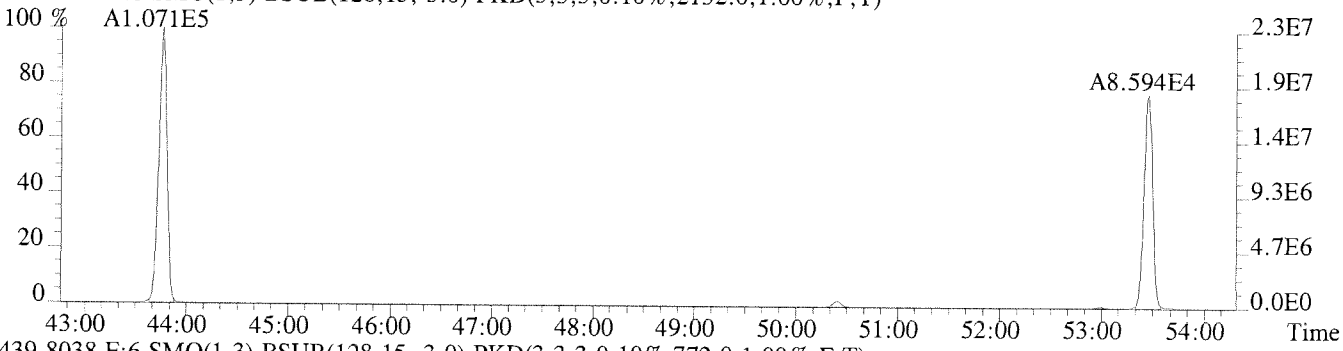


File:U139146 #1-572 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

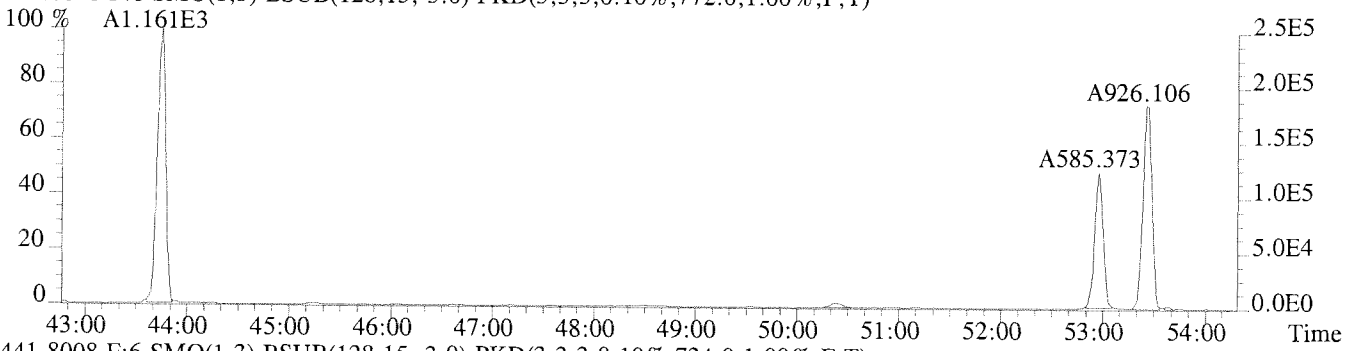
427.7635 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1136.0,1.00%,F,T)



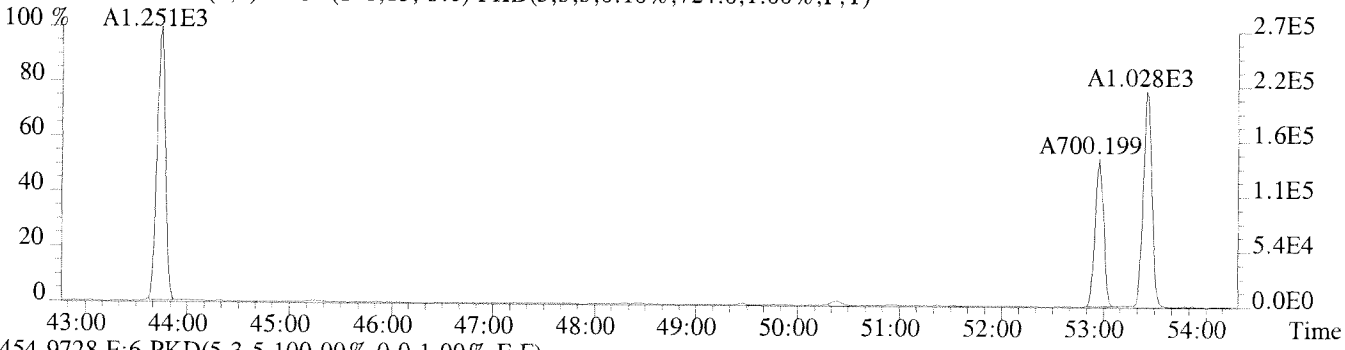
429.7606 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2132.0,1.00%,F,T)



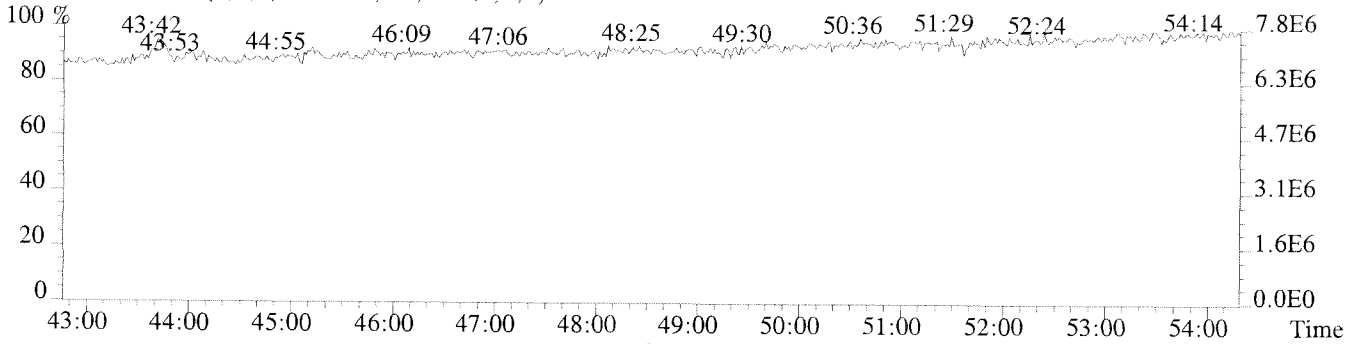
439.8038 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,772.0,1.00%,F,T)



441.8008 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,724.0,1.00%,F,T)

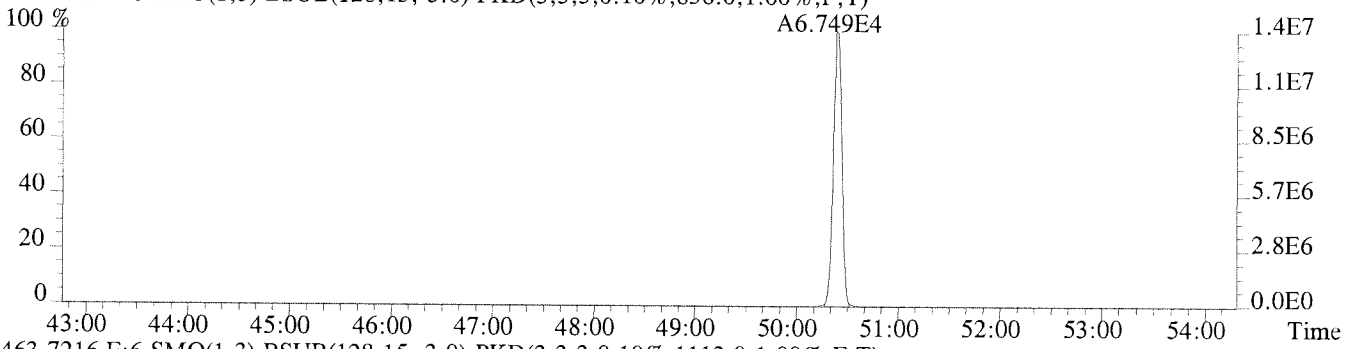


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

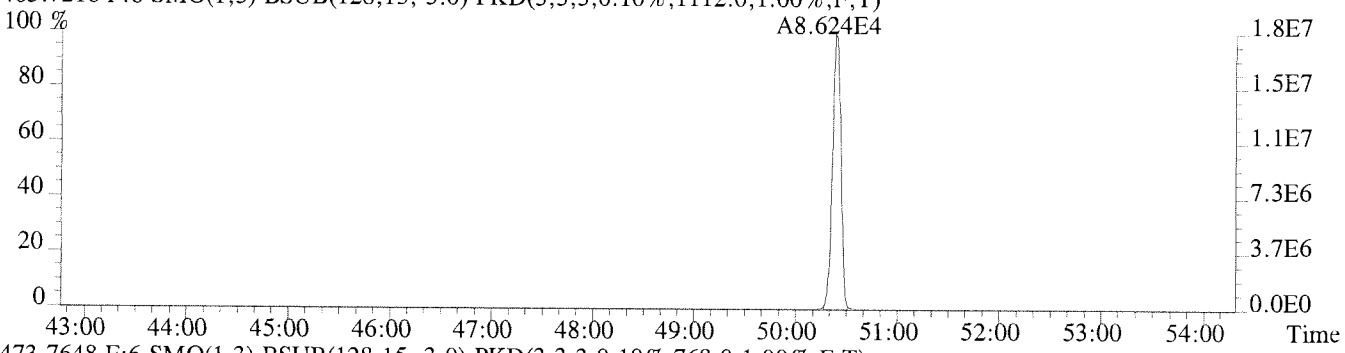


File:U139146 #1-572 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

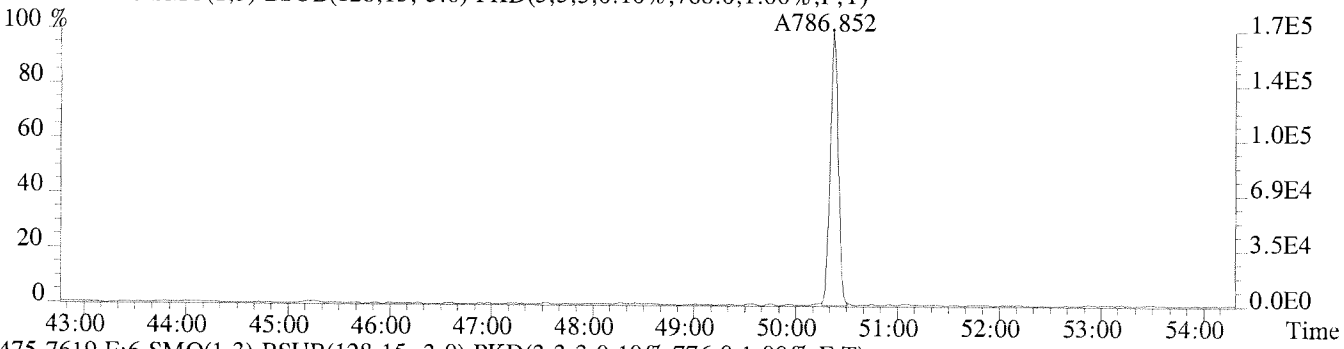
461.7246 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,856.0,1.00%,F,T)



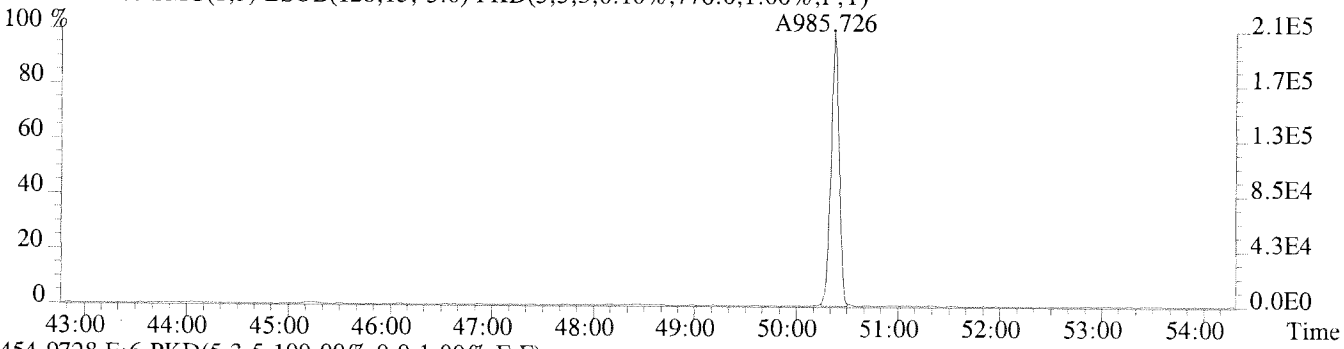
463.7216 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,1112.0,1.00%,F,T)



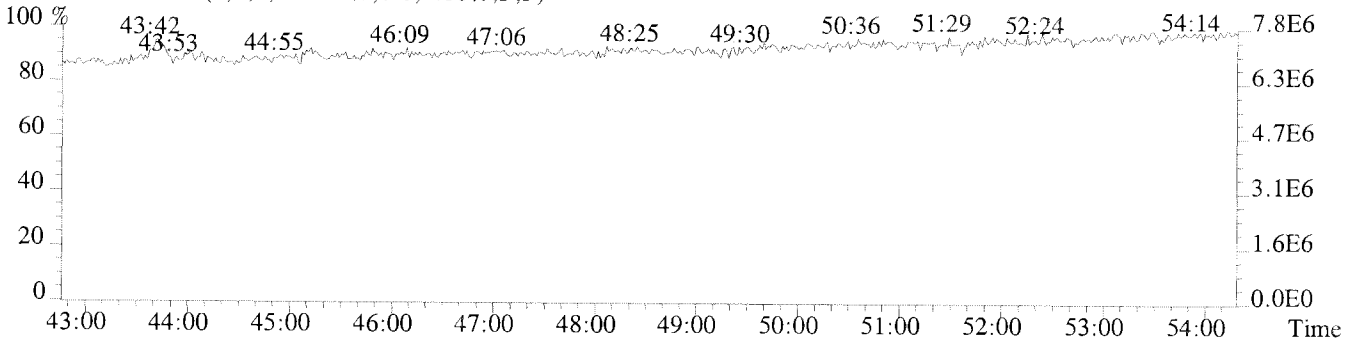
473.7648 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,768.0,1.00%,F,T)



475.7619 F:6 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,776.0,1.00%,F,T)

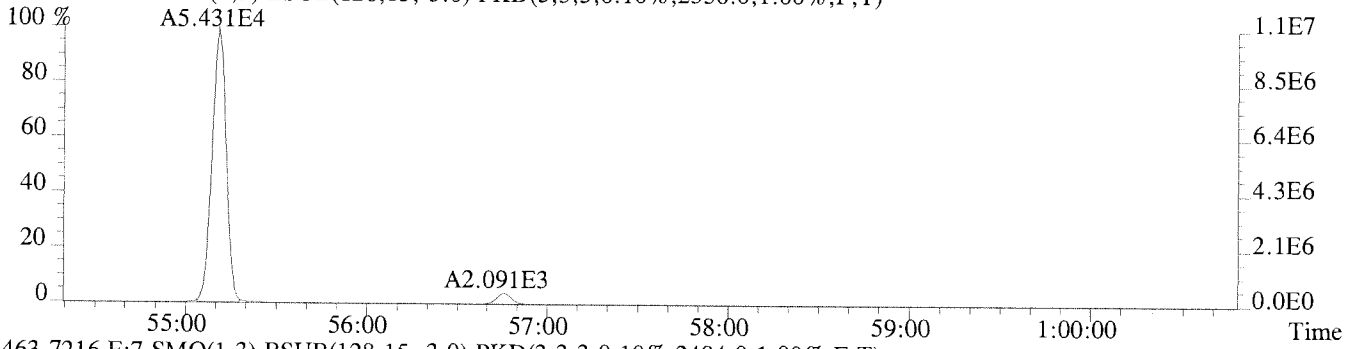


454.9728 F:6 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

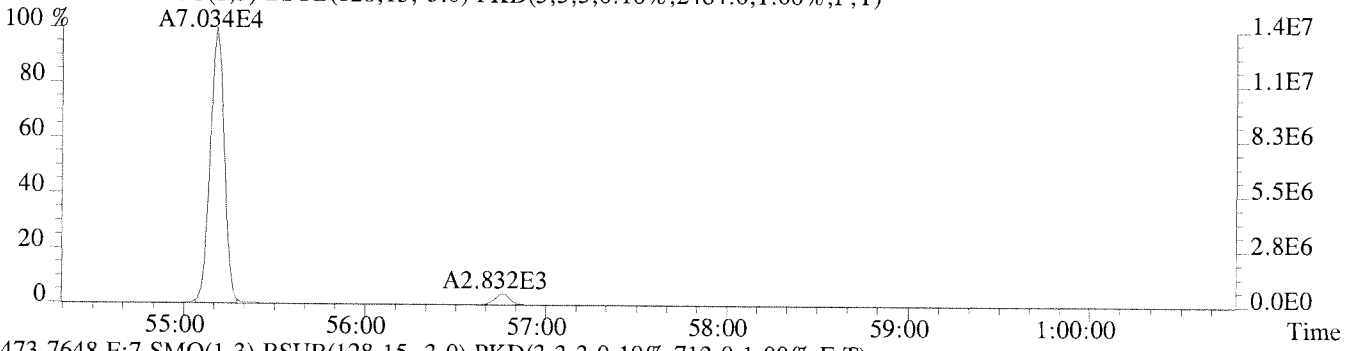


File:U139146 #1-366 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

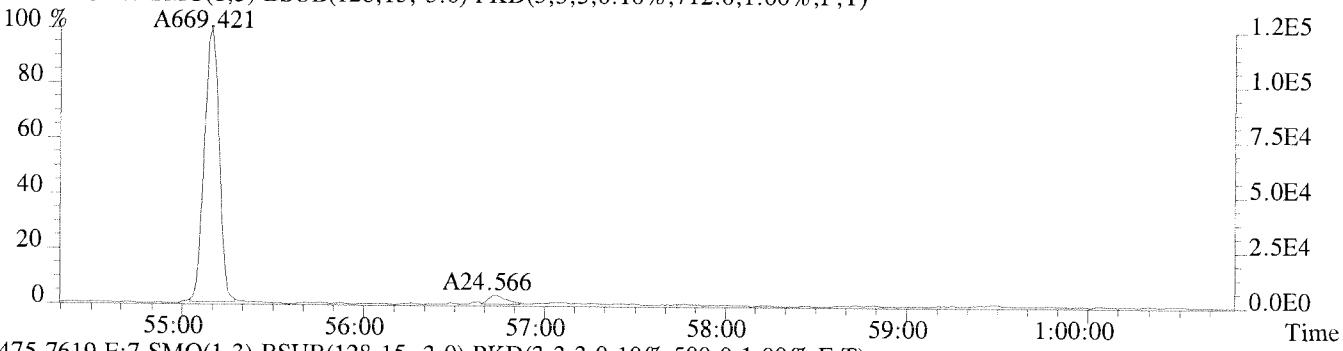
461.7246 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2356.0,1.00%,F,T)



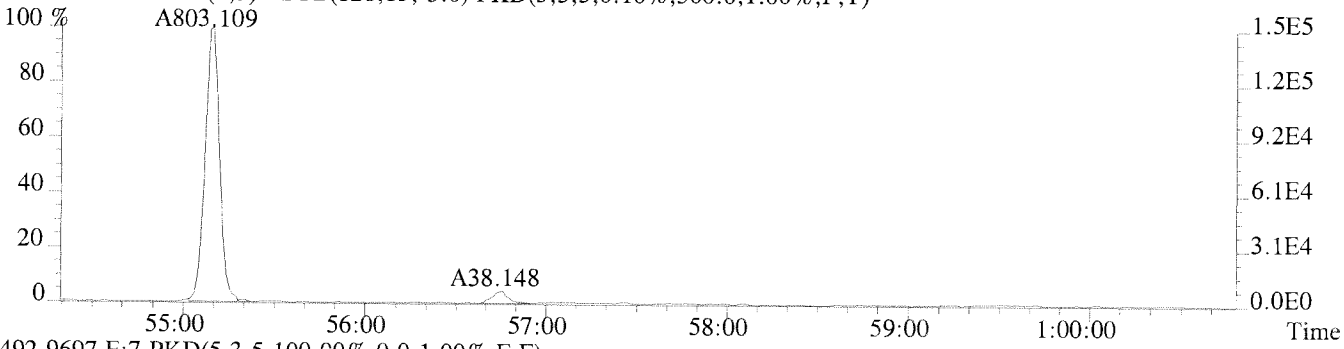
463.7216 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,2484.0,1.00%,F,T)



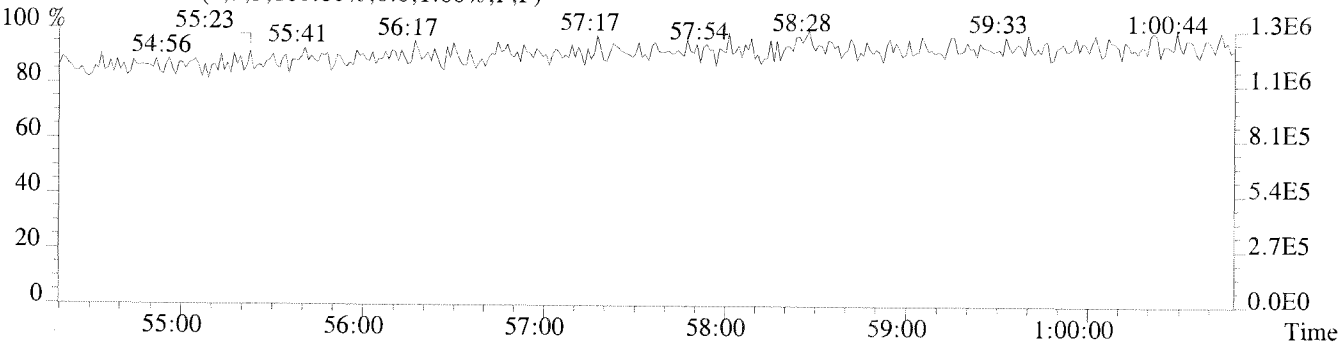
473.7648 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,712.0,1.00%,F,T)



475.7619 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,500.0,1.00%,F,T)

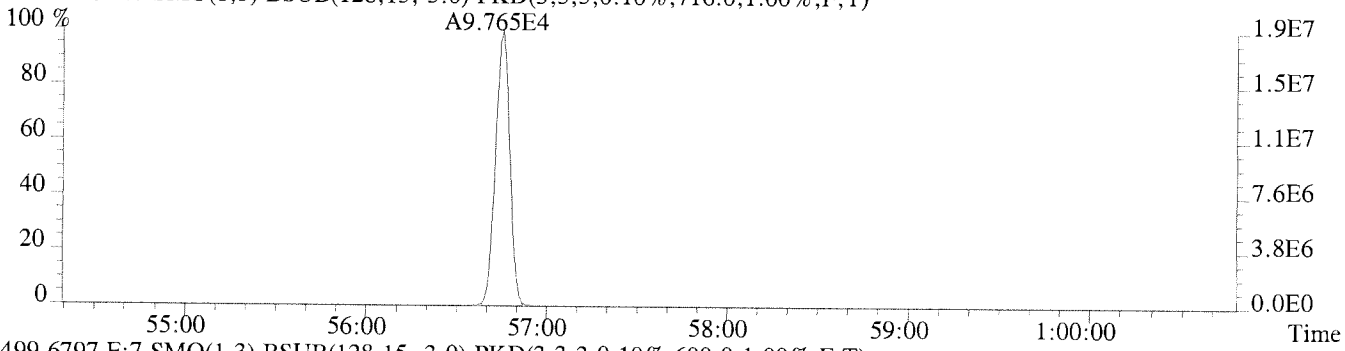


492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)

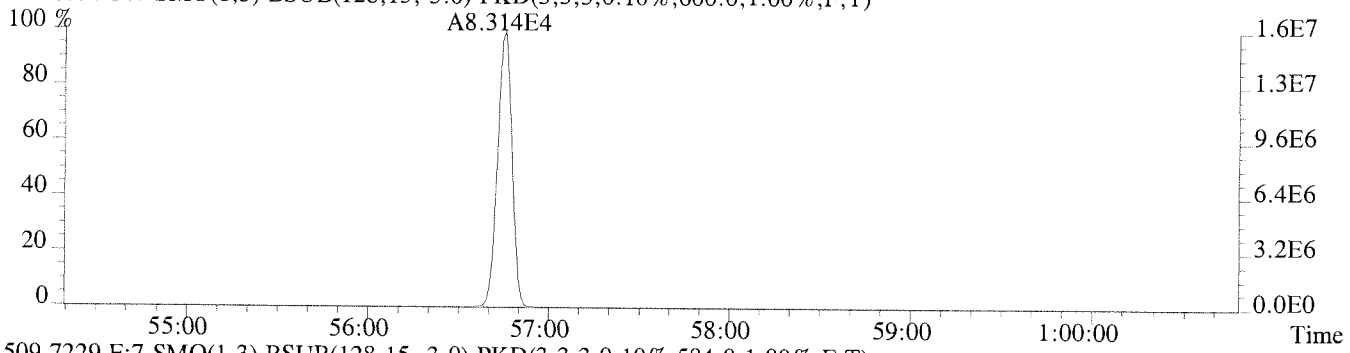


File:U139146 #1-366 Acq:23-FEB-2011 18:13:13 Probe EI+ Magnet SIR VG BioTech Mass spect£
Sample#1 Exp:ICAL CS6

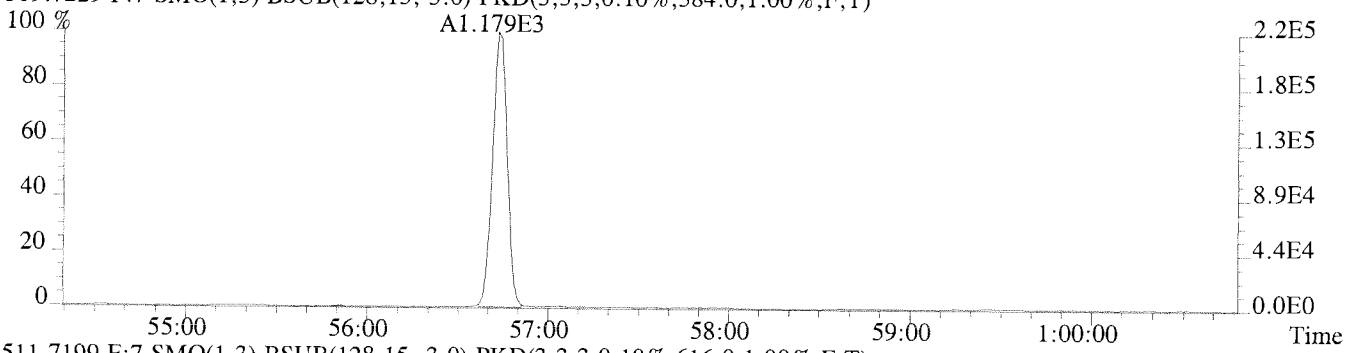
497.6826 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,716.0,1.00%,F,T)



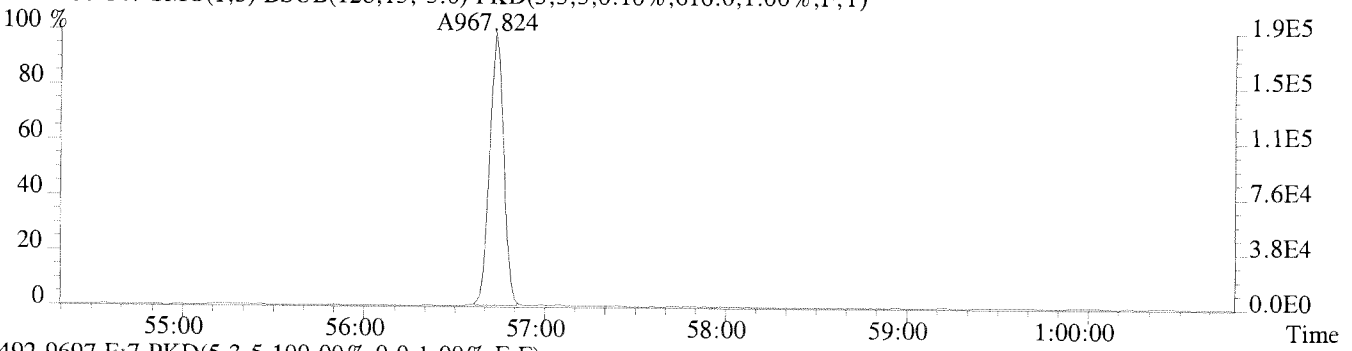
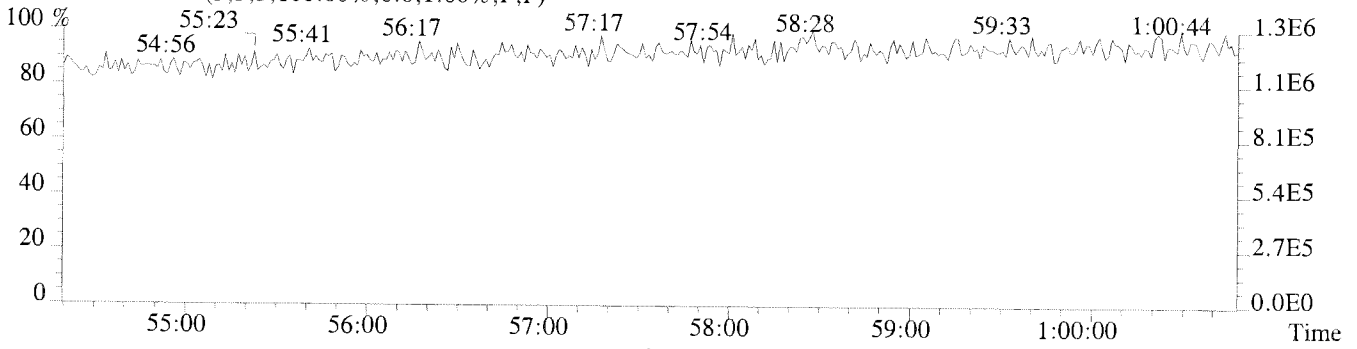
499.6797 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,600.0,1.00%,F,T)



509.7229 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,584.0,1.00%,F,T)



511.7199 F:7 SMO(1,3) BSUB(128,15,-3.0) PKD(3,3,3,0.10%,616.0,1.00%,F,T)



492.9697 F:7 PKD(5,3,5,100.00%,0.0,1.00%,F,F)