

GC/MS Semivolatiles Case Narrative

Colorado Oil & Gas Conservation Commission TBAL

Work Order Number: 1312158

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 12/13/13.
2. The sample was prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the water sample was extracted using continuous liquid-liquid extractors, according to SW-846 Method 3520C, utilizing the current revision of SOP 617.
3. The extract was analyzed using GC/MS with a DB-5MS capillary column according to the current revision of SOP 506 based on SW-846 Method 8270D. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.
4. All initial calibration criteria were met. If average response factors were used in the initial calibration, %RSD was $\leq 20\%$. If linear or higher order regression calibrations were used in the initial calibration, the coefficient of determination (r^2) ≥ 0.99 .
5. All initial calibration standards are verified by comparing a second source standard initial calibration verification (ICV) against the calibration curve. All target compounds in the second source verification had a %D $\leq 30\%$.
6. All method blank criteria were met.
7. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria with the following exception:

Spiked Compound	QC Sample	Direction
3,3'-dichlorobenzidine	LCS & LCSD	RPD


Since the recoveries for 3,3'-dichlorobenzidine in the laboratory control sample and laboratory



control sample duplicate were within control limits, with only the RPD exceeding acceptance criteria, quantitations of target compounds were not compromised. No further action was taken.

8. A matrix spike and matrix spike duplicate were not performed because of insufficient sample. A laboratory control sample and laboratory control sample duplicate were performed instead.
9. The sample was extracted and analyzed within the established holding times.
10. All surrogate recoveries were within acceptance criteria.
11. All internal standard recoveries were within acceptance criteria.
12. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939. Whenever manual integrations are performed, before and after chromatograms of the peak that was manually integrated are included in the report along with the reason why the re-integration was necessary.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Emily Lyons
Organics Primary Data Reviewer

12/27/13
Date



Organics Final Data Reviewer

12/27/13
Date



ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows: (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- *:** This flag indicates that a spike recovery is equal to or outside the control criteria used.
- +:** This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.



Chain of Custody

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

Client Project Name: TBAL

Client Project Number:

Client PO Number: PHA 14-22

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
285485 Molokai 13-36	1312158-1		WATER	12-Dec-13	10:03



225 Commerce Drive, Fort Collins, Colorado 80524
 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

Comments:	QC PACKAGE (check below)
Allens = $(\text{Pr})_2(\text{F})\text{Nb}_2\text{Ni}_3\text{S}_4$ Filter + preserve metals upon receipt 9/11	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)
	X

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC

Workorder No: 1312158

Project Manager: ARW

Initials: JLR

Date: 12/13/13

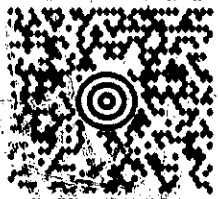

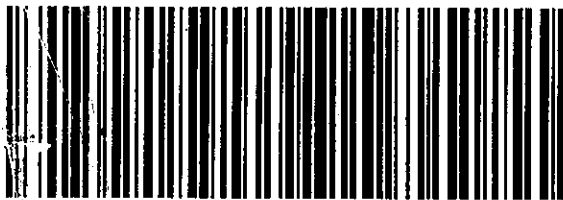
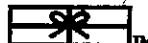
1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	<input checked="" type="radio"/> YES	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	<input checked="" type="radio"/> NO
16. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 <input checked="" type="radio"/> #4	RAD ONLY	<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>5°</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>10</u>			
Background µR/hr reading: <u>10</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO / ☒ NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 12-13-13

1312158

PETER GINTAUTAS 719-846-3091 COLORADO OIL & GAS CONSERVATIO 213 CORUNDUM RD TRINIDAD CO 81082		21 LBS	1 OF 1
SHIP TO: AMY WOLF 970-490-1511 ALS LABORATORY GROUP 225 COMMERCE DRIVE FORT COLLINS CO 80524-2762		DWT: 14,13,12	10 1-
	CO 805 0-01 		
UPS NEXT DAY AIR		1	
TRACKING #: 1Z 014 8WR 01 9135 4328			
			
BILLING: P/P			
Reference#1: Project T3AL Project 2130			
UPS 15.6.12		WNTIE70 45.0A 10/2013	
			

Temp = 5°C



Analytical Results

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8974

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ	MDL	Result Qualifier	EPA Qualifier
123-91-1	1,4-DIOXANE	1	10	10	0.55	U	
110-86-1	PYRIDINE	1	10	10	3	U	
62-75-9	N-NITROSODIMETHYLAMINE	1	10	10	3	U	
62-53-3	ANILINE	1	10	10	3	U	
108-95-2	PHENOL	1	10	10	3	U	
111-44-4	BIS(2-CHLOROETHYL)ETHER	1	10	10	3	U	
95-57-8	2-CHLOROPHENOL	1	10	10	3	U	
541-73-1	1,3-DICHLOROBENZENE	1	10	10	3	U	
106-46-7	1,4-DICHLOROBENZENE	1	10	10	3	U	
95-50-1	1,2-DICHLOROBENZENE	1	10	10	3	U	
100-51-6	BENZYL ALCOHOL	1	10	10	3	U	
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	1	10	10	3	U	
95-48-7	2-METHYLPHENOL	1	10	10	3	U	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1	10	10	3	U	
108-39-4	3+4-METHYLPHENOL	1	10	10	3	U	
67-72-1	HEXACHLOROETHANE	1	10	10	3	U	
98-95-3	NITROBENZENE	1	10	10	3	U	
78-59-1	ISOPHORONE	1	10	10	3	U	
88-75-5	2-NITROPHENOL	1	10	10	3	U	
105-67-9	2,4-DIMETHYLPHENOL	1	10	10	3	U	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1	10	10	3	U	
120-83-2	2,4-DICHLOROPHENOL	1	10	10	3	U	
65-85-0	BENZOIC ACID	1	50	50	27	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	10	10	3	U	
91-20-3	NAPHTHALENE	1	10	10	3	U	
106-47-8	4-CHLOROANILINE	1	10	10	3	U	
87-68-3	HEXACHLOROBUTADIENE	1	10	10	3	U	
59-50-7	4-CHLORO-3-METHYLPHENOL	1	10	10	3	U	

Data Package ID: SV1312158-1

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8974

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ	MDL	Result Qualifier	EPA Qualifier
91-57-6	2-METHYLNAPHTHALENE	1	10	10	3	U	
90-12-0	1-METHYLNAPHTHALENE	1	10	10	3	U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	1	10	10	3	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	10	10	3	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	10	10	3	U	
91-58-7	2-CHLORONAPHTHALENE	1	10	10	3	U	
88-74-4	2-NITROANILINE	1	20	20	6	U	
131-11-3	DIMETHYL PHTHALATE	1	10	10	3	U	
606-20-2	2,6-DINITROTOLUENE	1	10	10	3	U	
208-96-8	ACENAPHTHYLENE	1	10	10	3	U	
99-09-2	3-NITROANILINE	1	20	20	6	U	
83-32-9	ACENAPHTHENE	1	10	10	3	U	
51-28-5	2,4-DINITROPHENOL	1	20	20	4.9	U	
100-02-7	4-NITROPHENOL	1	20	20	6	U	
132-64-9	DIBENZOFURAN	1	10	10	3	U	
121-14-2	2,4-DINITROTOLUENE	1	10	10	3	U	
84-66-2	DIETHYL PHTHALATE	1	10	10	3	U	
86-73-7	FLUORENE	1	10	10	3	U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1	10	10	3	U	
100-01-6	4-NITROANILINE	1	20	20	6	U	
103-33-3	AZOBENZENE	1	10	10	3	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1	20	20	6	U	
86-30-6	N-NITROSODIPHENYLAMINE	1	10	10	3	U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	1	10	10	3	U	
118-74-1	HEXACHLORO BENZENE	1	10	10	3	U	
58-90-2	2,3,4,6-TETRACHLOROPHENOL	1	10	10	3	U	
87-86-5	PENTACHLOROPHENOL	1	20	20	6	U	
85-01-8	PHENANTHRENE	1	10	10	3	U	

Data Package ID: SV1312158-1

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8974

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ	MDL	Result Qualifier	EPA Qualifier
120-12-7	ANTHRACENE	1	10	10	3	U	
86-74-8	CARBAZOLE	1	10	10	3	U	
84-74-2	DI-N-BUTYL PHTHALATE	1	10	10	3	U	
206-44-0	FLUORANTHENE	1	10	10	3	U	
129-00-0	PYRENE	1	10	10	3	U	
85-68-7	BUTYL BENZYL PHTHALATE	1	10	10	3	U	
56-55-3	BENZO(A)ANTHRACENE	1	10	10	3	U	
91-94-1	3,3'-DICHLOROBENZIDINE	1	10	10	3	U	
218-01-9	CHRYSENE	1	10	10	3	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1	10	10	3	U	
117-84-0	DI-N-OCTYL PHTHALATE	1	10	10	3	U	
205-99-2	BENZO(B)FLUORANTHENE	1	10	10	3	U	
207-08-9	BENZO(K)FLUORANTHENE	1	10	10	3	U	
50-32-8	BENZO(A)PYRENE	1	10	10	3	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	10	10	3	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	10	10	3	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	10	10	3	U	

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 3 of 4

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8974

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ	MDL	Result Qualifier	EPA Qualifier
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Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	62.8		75	84	42 - 117
321-60-8	2-FLUOROBIPHENYL	44		50	88	55 - 108
367-12-4	2-FLUOROPHENOL	52.4		75	70	46 - 105
4165-60-0	NITROBENZENE-D5	43.5		50	87	53 - 111
4165-62-2	PHENOL-D5	56.4		75	75	50 - 109
1718-51-0	TERPHENYL-D14	45.5		50	91	34 - 139

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 4 of 4

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Field ID:	
Lab ID:	EX131216-8MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: As Received

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Clean DF: 1

File Name: N8974

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: SV1312158-1

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Field ID: 285485 Molokai 13-36

Lab ID: 1312158-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 12-Dec-13

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Method: SW3520 Rev C

Prep Batch: EX131216-8

QC Batch ID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: As Received

File Name: N8979

Analyst: Joe Kostelnik

Sample Aliquot: 1060 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	MDL/LOD/DL	Result Qualifier	EPA Qualifier
123-91-1	1,4-DIOXANE	1	9.4	9.4	0.52	U	
110-86-1	PYRIDINE	1	9.4	9.4	2.8	U	
62-75-9	N-NITROSODIMETHYLAMINE	1	9.4	9.4	2.8	U	
62-53-3	ANILINE	1	9.4	9.4	2.8	U	
108-95-2	PHENOL	1	9.4	9.4	2.8	U	
111-44-4	BIS(2-CHLOROETHYL)ETHER	1	9.4	9.4	2.8	U	
95-57-8	2-CHLOROPHENOL	1	9.4	9.4	2.8	U	
541-73-1	1,3-DICHLOROBENZENE	1	9.4	9.4	2.8	U	
106-46-7	1,4-DICHLOROBENZENE	1	9.4	9.4	2.8	U	
95-50-1	1,2-DICHLOROBENZENE	1	9.4	9.4	2.8	U	
100-51-6	BENZYL ALCOHOL	1	9.4	9.4	2.8	U	
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	1	9.4	9.4	2.8	U	
95-48-7	2-METHYLPHENOL	1	9.4	9.4	2.8	U	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1	9.4	9.4	2.8	U	
108-39-4	3+4-METHYLPHENOL	1	9.4	9.4	2.8	U	
67-72-1	HEXACHLOROETHANE	1	9.4	9.4	2.8	U	
98-95-3	NITROBENZENE	1	9.4	9.4	2.8	U	
78-59-1	ISOPHORONE	1	9.4	9.4	2.8	U	
88-75-5	2-NITROPHENOL	1	9.4	9.4	2.8	U	
105-67-9	2,4-DIMETHYLPHENOL	1	9.4	9.4	2.8	U	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1	9.4	9.4	2.8	U	
120-83-2	2,4-DICHLOROPHENOL	1	9.4	9.4	2.8	U	
65-85-0	BENZOIC ACID	1	47	47	25	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	9.4	9.4	2.8	U	
91-20-3	NAPHTHALENE	1	9.4	9.4	2.8	U	
106-47-8	4-CHLOROANILINE	1	9.4	9.4	2.8	U	

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 1 of 4

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Field ID: 285485 Molokai 13-36

Lab ID: 1312158-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 12-Dec-13

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Method: SW3520 Rev C

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: As Received

File Name: N8979

Analyst: Joe Kostelnik

Sample Aliquot: 1060 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	MDL/LOD/DL	Result Qualifier	EPA Qualifier
87-68-3	HEXACHLOROBUTADIENE	1	9.4	9.4	2.8	U	
59-50-7	4-CHLORO-3-METHYLPHENOL	1	9.4	9.4	2.8	U	
91-57-6	2-METHYLNAPHTHALENE	1	9.4	9.4	2.8	U	
90-12-0	1-METHYLNAPHTHALENE	1	9.4	9.4	2.8	U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	1	9.4	9.4	2.8	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	9.4	9.4	2.8	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	9.4	9.4	2.8	U	
91-58-7	2-CHLORONAPHTHALENE	1	9.4	9.4	2.8	U	
88-74-4	2-NITROANILINE	1	19	19	5.7	U	
131-11-3	DIMETHYL PHTHALATE	1	9.4	9.4	2.8	U	
606-20-2	2,6-DINITROTOLUENE	1	9.4	9.4	2.8	U	
208-96-8	ACENAPHTHYLENE	1	9.4	9.4	2.8	U	
99-09-2	3-NITROANILINE	1	19	19	5.7	U	
83-32-9	ACENAPHTHENE	1	9.4	9.4	2.8	U	
51-28-5	2,4-DINITROPHENOL	1	19	19	4.6	U	
100-02-7	4-NITROPHENOL	1	19	19	5.7	U	
132-64-9	DIBENZOFURAN	1	9.4	9.4	2.8	U	
121-14-2	2,4-DINITROTOLUENE	1	9.4	9.4	2.8	U	
84-66-2	DIETHYL PHTHALATE	1	9.4	9.4	2.8	U	
86-73-7	FLUORENE	1	9.4	9.4	2.8	U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1	9.4	9.4	2.8	U	
100-01-6	4-NITROANILINE	1	19	19	5.7	U	
103-33-3	AZOBENZENE	1	9.4	9.4	2.8	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1	19	19	5.7	U	
86-30-6	N-NITROSODIPHENYLAMINE	1	9.4	9.4	2.8	U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	1	9.4	9.4	2.8	U	

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 2 of 4

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Field ID: 285485 Molokai 13-36

Lab ID: 1312158-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 12-Dec-13

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Method: SW3520 Rev C

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: As Received

File Name: N8979

Analyst: Joe Kostelnik

Sample Aliquot: 1060 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	MDL/LOD/DL	Result Qualifier	EPA Qualifier
118-74-1	HEXACHLOROBENZENE	1	9.4	9.4	2.8	U	
58-90-2	2,3,4,6-TETRACHLOROPHENOL	1	9.4	9.4	2.8	U	
87-86-5	PENTACHLOROPHENOL	1	19	19	5.7	U	
85-01-8	PHENANTHRENE	1	9.4	9.4	2.8	U	
120-12-7	ANTHRACENE	1	9.4	9.4	2.8	U	
86-74-8	CARBAZOLE	1	9.4	9.4	2.8	U	
84-74-2	DI-N-BUTYL PHTHALATE	1	9.4	9.4	2.8	U	
206-44-0	FLUORANTHENE	1	9.4	9.4	2.8	U	
129-00-0	PYRENE	1	9.4	9.4	2.8	U	
85-68-7	BUTYL BENZYL PHTHALATE	1	9.4	9.4	2.8	U	
56-55-3	BENZO(A)ANTHRACENE	1	9.4	9.4	2.8	U	
91-94-1	3,3'-DICHLOROBENZIDINE	1	9.4	9.4	2.8	U	
218-01-9	CHRYSENE	1	9.4	9.4	2.8	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1	9.4	9.4	2.8	U	
117-84-0	DI-N-OCTYL PHTHALATE	1	9.4	9.4	2.8	U	
205-99-2	BENZO(B)FLUORANTHENE	1	9.4	9.4	2.8	U	
207-08-9	BENZO(K)FLUORANTHENE	1	9.4	9.4	2.8	U	
50-32-8	BENZO(A)PYRENE	1	9.4	9.4	2.8	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	9.4	9.4	2.8	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	9.4	9.4	2.8	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	9.4	9.4	2.8	U	

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 3 of 4

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Field ID: 285485 Molokai 13-36

Lab ID: 1312158-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 12-Dec-13

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Method: SW3520 Rev C

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: As Received

File Name: N8979

Analyst: Joe Kostelnik

Sample Aliquot: 1060 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	MDL/LOD/DL	Result Qualifier	EPA Qualifier
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Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	55.6		70.8	79	42 - 117
321-60-8	2-FLUOROBIPHENYL	39.6		47.2	84	55 - 108
367-12-4	2-FLUOROPHENOL	51.2		70.8	72	46 - 105
4165-60-0	NITROBENZENE-D5	41.5		47.2	88	53 - 111
4165-62-2	PHENOL-D5	53		70.8	75	50 - 109
1718-51-0	TERPHENYL-D14	39.2		47.2	83	34 - 139

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

LIMS Version: 6.682

Page 4 of 4

GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Field ID: 285485 Molokai 13-36

Lab ID: 1312158-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 12-Dec-13

Date Extracted: 16-Dec-13

Date Analyzed: 23-Dec-13

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: As Received

Sample Aliquot: 1060 ml

Final Volume: 1 ml

Clean DF: 1

File Name: N8979

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: SV1312158-1



Supporting QA/QC Data

Surrogate Summary for GC/MS Semi-volatiles

Method SW8270D

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

PrepBatchID: EX131216-8

QC Batch ID: EX131216-8-1

Date Extracted: 12/16/2013

Surrogate Compound	Control Limits	
	Lower	Upper
2,4,6-Tribromophenol	42	117
2-Fluorobiphenyl	55	108
2-Fluorophenol	46	105
Nitrobenzene-d5	53	111
Phenol-d5	50	109
Terphenyl-d14	34	139

Lab ID	Client Sample ID	Date Collected	Date Received	246TB % Recovery	2FBP % Recovery	2FP % Recovery	ND5 % Recovery	PD5 % Recovery	TD14 % Recovery
EX131216-8MB	XXXXXXX	NA	XXXXXXX	84	88	70	87	75	91
EX131216-8LCS	XXXXXXX	NA	XXXXXXX	89	87	82	90	86	89
EX131216-8LCSD	XXXXXXX	NA	XXXXXXX	87	83	75	86	81	87
1312158-1	285485 Molokai 13-36	12/12/2013	12/13/2013	79	84	72	88	75	83

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 1 of 1

Shaded values exceed established control limits.

LIMS Version: 6.682

21 of 211

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12/16/2013

Date Analyzed: 12/23/2013

Prep Method: SW3520C

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8975

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
123-91-1	1,4-DIOXANE	60	47.5	10		79	30 - 130%
110-86-1	PYRIDINE	60	33.1	10		55	10 - 101%
62-75-9	N-NITROSODIMETHYLAMINE	60	50.9	10		85	57 - 119%
62-53-3	ANILINE	60	49.3	10		82	38 - 116%
108-95-2	PHENOL	60	48.4	10		81	60 - 102%
111-44-4	BIS(2-CHLOROETHYL)ETHER	60	47.8	10		80	62 - 103%
95-57-8	2-CHLOROPHENOL	60	48.4	10		81	64 - 100%
541-73-1	1,3-DICHLOROBENZENE	60	44.2	10		74	49 - 95%
106-46-7	1,4-DICHLOROBENZENE	60	44.2	10		74	54 - 94%
95-50-1	1,2-DICHLOROBENZENE	60	45.2	10		75	54 - 97%
100-51-6	BENZYL ALCOHOL	60	48.5	10		81	66 - 105%
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	60	50.3	10		84	60 - 107%
95-48-7	2-METHYLPHENOL	60	48.5	10		81	63 - 103%
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	60	51.5	10		86	62 - 113%
108-39-4	3+4-METHYLPHENOL	60	48.9	10		81	54 - 106%
67-72-1	HEXACHLOROETHANE	60	45.7	10		76	47 - 95%
98-95-3	NITROBENZENE	60	40.1	10		67	36 - 107%
78-59-1	ISOPHORONE	60	53.2	10		89	58 - 102%
88-75-5	2-NITROPHENOL	60	55.4	10		92	69 - 108%
105-67-9	2,4-DIMETHYLPHENOL	60	49.3	10		82	57 - 101%
111-91-1	BIS(2-CHLOROETHOXY)METHANE	60	52.1	10		87	59 - 97%
120-83-2	2,4-DICHLOROPHENOL	60	52.5	10		87	61 - 99%
65-85-0	BENZOIC ACID	100	69.9	50		70	28 - 87%
120-82-1	1,2,4-TRICHLOROBENZENE	60	46.9	10		78	47 - 92%
91-20-3	NAPHTHALENE	60	50.2	10		84	58 - 92%
106-47-8	4-CHLOROANILINE	60	52.8	10		88	37 - 119%

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 1 of 7

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12/16/2013

Date Analyzed: 12/23/2013

Prep Method: SW3520C

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8975

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
87-68-3	HEXACHLOROBUTADIENE	60	46.4	10		77	43 - 93%
59-50-7	4-CHLORO-3-METHYLPHENOL	60	54.8	10		91	61 - 105%
91-57-6	2-METHYLNAPHTHALENE	60	53	10		88	57 - 97%
90-12-0	1-METHYLNAPHTHALENE	60	46.1	10		77	58 - 101%
77-47-4	HEXACHLOROCYCLOPENTADIENE	60	21	10		35	3 - 56%
88-06-2	2,4,6-TRICHLOROPHENOL	60	51.9	10		86	61 - 110%
95-95-4	2,4,5-TRICHLOROPHENOL	60	55	10		92	62 - 109%
91-58-7	2-CHLORONAPHTHALENE	60	51.6	10		86	67 - 101%
88-74-4	2-NITROANILINE	60	54.8	20		91	68 - 120%
131-11-3	DIMETHYL PHTHALATE	60	52.9	10		88	70 - 109%
606-20-2	2,6-DINITROTOLUENE	60	54.8	10		91	69 - 111%
208-96-8	ACENAPHTHYLENE	60	53.1	10		88	67 - 108%
99-09-2	3-NITROANILINE	60	55.2	20		92	60 - 124%
83-32-9	ACENAPHTHENE	60	52.8	10		88	60 - 108%
51-28-5	2,4-DINITROPHENOL	60	55.4	20		92	55 - 126%
100-02-7	4-NITROPHENOL	60	52.4	20		87	24 - 128%
132-64-9	DIBENZOFURAN	60	51.9	10		87	67 - 107%
121-14-2	2,4-DINITROTOLUENE	60	58.9	10		98	46 - 114%
84-66-2	DIETHYL PHTHALATE	60	54.8	10		91	71 - 113%
86-73-7	FLUORENE	60	51.4	10		86	72 - 106%
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	60	53.1	10		89	69 - 107%
100-01-6	4-NITROANILINE	60	59.9	20		100	64 - 122%
103-33-3	AZOBENZENE	60	52	10		87	71 - 110%
534-52-1	4,6-DINITRO-2-METHYLPHENOL	60	55.2	20		92	63 - 123%
86-30-6	N-NITROSODIPHENYLAMINE	60	46.3	10		77	57 - 102%
101-55-3	4-BROMOPHENYL PHENYL ETHER	60	51.6	10		86	67 - 108%
118-74-1	HEXACHLOROBENZENE	60	51.3	10		86	48 - 115%

Data Package ID: SV1312158-1

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12/16/2013

Date Analyzed: 12/23/2013

Prep Method: SW3520C

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8975

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
58-90-2	2,3,4,6-TETRACHLOROPHENOL	100	85.7	10		86	67 - 116%
87-86-5	PENTACHLOROPHENOL	60	53.8	20		90	40 - 114%
85-01-8	PHENANTHRENE	60	53.2	10		89	73 - 108%
120-12-7	ANTHRACENE	60	52.8	10		88	72 - 108%
86-74-8	CARBAZOLE	60	55.5	10		92	68 - 112%
84-74-2	DI-N-BUTYL PHTHALATE	60	56.5	10		94	71 - 114%
206-44-0	FLUORANTHENE	60	53.3	10		89	71 - 111%
129-00-0	PYRENE	60	52.6	10		88	60 - 113%
85-68-7	BUTYL BENZYL PHTHALATE	60	55.9	10		93	66 - 115%
56-55-3	BENZO(A)ANTHRACENE	60	53.4	10		89	69 - 107%
91-94-1	3,3'-DICHLOROBENZIDINE	60	51.5	10		86	-8 - 136%
218-01-9	CHRYSENE	60	54.9	10		91	69 - 111%
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	60	56.8	10		95	61 - 121%
117-84-0	DI-N-OCTYL PHTHALATE	60	55.7	10		93	66 - 119%
205-99-2	BENZO(B)FLUORANTHENE	60	55.5	10		93	68 - 110%
207-08-9	BENZO(K)FLUORANTHENE	60	55.3	10		92	68 - 110%
50-32-8	BENZO(A)PYRENE	60	50	10		83	62 - 104%
193-39-5	INDENO(1,2,3-CD)PYRENE	60	53.7	10		90	57 - 121%
53-70-3	DIBENZO(A,H)ANTHRACENE	60	54.8	10		91	60 - 124%
191-24-2	BENZO(G,H,I)PERYLENE	60	53.9	10		90	52 - 124%

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 3 of 7

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12/16/2013

Date Analyzed: 12/23/2013

Prep Method: SW3520C

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8976

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
123-91-1	1,4-DIOXANE	60	42.6	10		71	50	11
110-86-1	PYRIDINE	60	32.6	10		54	20	1
62-75-9	N-NITROSODIMETHYLAMINE	60	47.6	10		79	20	7
62-53-3	ANILINE	60	45.1	10		75	20	9
108-95-2	PHENOL	60	46.1	10		77	20	5
111-44-4	BIS(2-CHLOROETHYL)ETHER	60	45.9	10		77	20	4
95-57-8	2-CHLOROPHENOL	60	45.7	10		76	20	6
541-73-1	1,3-DICHLOROBENZENE	60	41.1	10		69	20	7
106-46-7	1,4-DICHLOROBENZENE	60	41.6	10		69	20	6
95-50-1	1,2-DICHLOROBENZENE	60	42.1	10		70	20	7
100-51-6	BENZYL ALCOHOL	60	47	10		78	20	3
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	60	47.4	10		79	20	6
95-48-7	2-METHYLPHENOL	60	47.5	10		79	20	2
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	60	50.2	10		84	20	3
108-39-4	3+4-METHYLPHENOL	60	46.1	10		77	20	6
67-72-1	HEXACHLOROETHANE	60	41.9	10		70	20	9
98-95-3	NITROBENZENE	60	38.4	10		64	20	4
78-59-1	ISOPHORONE	60	51.8	10		86	20	3
88-75-5	2-NITROPHENOL	60	54	10		90	20	2
105-67-9	2,4-DIMETHYLPHENOL	60	48.5	10		81	20	2
111-91-1	BIS(2-CHLOROETHOXY)METHANE	60	50.3	10		84	20	4
120-83-2	2,4-DICHLOROPHENOL	60	51.1	10		85	20	3
65-85-0	BENZOIC ACID	100	68.3	50		68	20	2
120-82-1	1,2,4-TRICHLOROBENZENE	60	44.8	10		75	20	5
91-20-3	NAPHTHALENE	60	47.9	10		80	20	5
106-47-8	4-CHLOROANILINE	60	50.1	10		84	20	5
87-68-3	HEXACHLOROBUTADIENE	60	44.4	10		74	20	5

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 4 of 7

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12/16/2013

Date Analyzed: 12/23/2013

Prep Method: SW3520C

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8976

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
59-50-7	4-CHLORO-3-METHYLPHENOL	60	53.4	10		89	20	3
91-57-6	2-METHYLNAPHTHALENE	60	51.7	10		86	20	3
90-12-0	1-METHYLNAPHTHALENE	60	44.6	10		74	20	3
77-47-4	HEXACHLOROCYCLOPENTADIENE	60	21.3	10		36	20	2
88-06-2	2,4,6-TRICHLOROPHENOL	60	50.8	10		85	20	2
95-95-4	2,4,5-TRICHLOROPHENOL	60	53.1	10		89	20	3
91-58-7	2-CHLORONAPHTHALENE	60	50.2	10		84	20	3
88-74-4	2-NITROANILINE	60	54.2	20		90	20	1
131-11-3	DIMETHYL PHTHALATE	60	51.8	10		86	20	2
606-20-2	2,6-DINITROTOLUENE	60	52.9	10		88	20	4
208-96-8	ACENAPHTHYLENE	60	52	10		87	20	2
99-09-2	3-NITROANILINE	60	55.2	20		92	20	0
83-32-9	ACENAPHTHENE	60	51.7	10		86	20	2
51-28-5	2,4-DINITROPHENOL	60	54.9	20		91	20	1
100-02-7	4-NITROPHENOL	60	52	20		87	20	1
132-64-9	DIBENZOFURAN	60	49.8	10		83	20	4
121-14-2	2,4-DINITROTOLUENE	60	57.2	10		95	20	3
84-66-2	DIETHYL PHTHALATE	60	53.3	10		89	20	3
86-73-7	FLUORENE	60	50	10		83	20	3
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	60	51.8	10		86	20	2
100-01-6	4-NITROANILINE	60	60	20		100	20	0
103-33-3	AZOENZENE	60	51.2	10		85	20	2
534-52-1	4,6-DINITRO-2-METHYLPHENOL	60	54.2	20		90	20	2
86-30-6	N-NITROSODIPHENYLAMINE	60	45.6	10		76	20	1
101-55-3	4-BROMOPHENYL PHENYL ETHER	60	49.7	10		83	20	4
118-74-1	HEXACHLOROBENZENE	60	48.8	10		81	20	5
58-90-2	2,3,4,6-TETRACHLOROPHENOL	100	84.2	10		84	20	2

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 5 of 7

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: EX131216-8LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12/16/2013

Date Analyzed: 12/23/2013

Prep Method: SW3520C

Prep Batch: EX131216-8

QCBatchID: EX131216-8-1

Run ID: SV131223-1

Cleanup: NONE

Basis: N/A

File Name: N8976

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
87-86-5	PENTACHLOROPHENOL	60	52.1	20		87	20	3
85-01-8	PHENANTHRENE	60	51.5	10		86	20	3
120-12-7	ANTHRACENE	60	50.9	10		85	20	4
86-74-8	CARBAZOLE	60	54	10		90	20	3
84-74-2	DI-N-BUTYL PHTHALATE	60	53.5	10		89	20	5
206-44-0	FLUORANTHENE	60	51.5	10		86	20	3
129-00-0	PYRENE	60	52.2	10		87	20	1
85-68-7	BUTYL BENZYL PHTHALATE	60	54.2	10		90	20	3
56-55-3	BENZO(A)ANTHRACENE	60	52.5	10		87	20	2
91-94-1	3,3'-DICHLOROBENZIDINE	60	35	10	+	58	20	38
218-01-9	CHRYSENE	60	53	10		88	20	3
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	60	53.7	10		90	20	6
117-84-0	DI-N-OCTYL PHTHALATE	60	54.7	10		91	20	2
205-99-2	BENZO(B)FLUORANTHENE	60	53.4	10		89	20	4
207-08-9	BENZO(K)FLUORANTHENE	60	52	10		87	20	6
50-32-8	BENZO(A)PYRENE	60	48.7	10		81	20	3
193-39-5	INDENO(1,2,3-CD)PYRENE	60	49.7	10		83	20	8
53-70-3	DIBENZO(A,H)ANTHRACENE	60	51.3	10		85	20	7
191-24-2	BENZO(G,H,I)PERYLENE	60	51.2	10		85	20	5

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

Page 6 of 7

LIMS Version: 6.682

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1312158

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	75	89		87		42 - 117
321-60-8	2-FLUOROBIPHENYL	50	87		83		55 - 108
367-12-4	2-FLUOROPHENOL	75	82		75		46 - 105
4165-60-0	NITROBENZENE-D5	50	90		86		53 - 111
4165-62-2	PHENOL-D5	75	86		81		50 - 109
1718-51-0	TERPHENYL-D14	50	89		87		34 - 139

Data Package ID: SV1312158-1

Date Printed: Friday, December 27, 2013

ALS Environmental -- FC

LIMS Version: 6.682

Page 7 of 7

Prep Batch ID: EX131216-8

Start Date: 12/16/13

End Date: 12/17/13

Concentration Method: CKIS

Batch Created By: jac

Start Time: 15:37

End Time: 8:15

Extract Method: SW3520C

Date Created: 12/16/13

Prep Analyst: James A. Ceimet

Initial Volume Units: ml

Time Created: 16:26

Comments:

Final Volume Units: ml

Validated By: bch

Date Validated: 12/18/13

Time Validated: 12:37

QC Batch ID: EX131216-8-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
EX131216-8	RVS	XXXXXX	WATER	XXXXXX	1000	1	NONE	1	1312158
EX131216-8	MB	XXXXXX	WATER	XXXXXX	1000	1	NONE	1	1312158
EX131216-8	LCS	XXXXXX	WATER	XXXXXX	1000	1	NONE	1	1312158
EX131216-8	LCSD	XXXXXX	WATER	XXXXXX	1000	1	NONE	1	1312158
1312158-1	SMP	285485 Molokai 13-36	WATER	12/12/2013	1060	1	NONE	1	1312158

In generating this benchsheet, prep analyst states that all aspects of sample preparation as set forth in the appropriate SOP's (including Kuderna-Danish temperatures, proper flow settings on the N-evap, and final volumes) were properly adhered to (unless otherwise noted herein).

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		

5B

Semi-Volatile Organic GC/MS Tuning And Mass Calibration--Decafluorotriphenylphosphine (DFTPP)

Lab Name: ALS Environmental -- FC
 Work Order Number: 1312158
 Client Name: Colorado Oil & Gas Conservation Commission
 ClientProject ID: TBAL

DFTPP Injection Date: 12/23/2013
 DFTPP Injection Time: 11:51
 Instrument ID: HPSV1

Reported on: Friday, December 27, 2013

FileID: N8957

m/e	Ion Abundance Criteria SW8270D	% Relative Abundance
51	30.0 - 60.0 percent of mass 198	48.1
68	Less than 2.0 percent of mass 69	0
69	Mass 69 relative abundance of mass 198	43.7
70	Less than 2.0 percent of mass 69	0
127	40.0 - 60.0 percent of mass 198	48
197	Less than 1.0 percent of mass 198	0
198	Base peak, 100 percent of relative abundance	100
199	5.0 - 9.0 percent of mass 198	7.3
275	10.0 - 30.0 percent of mass 198	27.2
365	Greater than 1.00 percent of mass 198	2.8
441	Present, but less than mass 443 (percent of 443)	28.6
442	Greater than 40.0 percent of mass 198	82.8
443	17.0 - 23.0 percent of mass 442	20.4

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS/MSD, BLANKS, AND STANDARDS:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	QC BatchID
XXXXXXX	ICALSVSTD060CSTD	N8958	12/23/2013	12:07	SV131223-1
XXXXXXX	ICALSVSTD001CSTD	N8959	12/23/2013	12:31	SV131223-1
XXXXXXX	ICALSVSTD005CSTD	N8960	12/23/2013	12:56	SV131223-1
XXXXXXX	ICALSVSTD010CSTD	N8961	12/23/2013	13:20	SV131223-1
XXXXXXX	ICALSVSTD020CSTD	N8962	12/23/2013	13:44	SV131223-1
XXXXXXX	ICALSVSTD040CSTD	N8963	12/23/2013	14:09	SV131223-1
XXXXXXX	ICALSVSTD080CSTD	N8964	12/23/2013	14:33	SV131223-1
XXXXXXX	ICALSVSTD100CSTD	N8965	12/23/2013	14:57	SV131223-1
XXXXXXX	ICALSVSTD120CSTD	N8966	12/23/2013	15:22	SV131223-1
XXXXXXX	ICVSVSTD050ICV	N8967	12/23/2013	15:46	SV131223-1
XXXXXXX	EX131212-8MB	N8968	12/23/2013	16:10	EX131212-8-1
XXXXXXX	EX131212-8LCS	N8969	12/23/2013	16:34	EX131212-8-1
XXXXXXX	EX131212-8LCSD	N8970	12/23/2013	16:59	EX131212-8-1

Data Package ID: SV1312158-1

5B

Semi-Volatile Organic GC/MS Tuning And Mass Calibration--Decafluorotriphenylphosphine (DFTPP)

Lab Name: ALS Environmental -- FC
Work Order Number: 1312158
Client Name: Colorado Oil & Gas Conservation Commission
ClientProject ID: TBAL

DFTPP Injection Date: 12/23/2013
DFTPP Injection Time: 11:51
Instrument ID: HPSV1

Reported on: Friday, December 27, 2013

FileID: N8957

m/e	Ion Abundance Criteria SW8270D	% Relative Abundance
51	30.0 - 60.0 percent of mass 198	48.1
68	Less than 2.0 percent of mass 69	0
69	Mass 69 relative abundance of mass 198	43.7
70	Less than 2.0 percent of mass 69	0
127	40.0 - 60.0 percent of mass 198	48
197	Less than 1.0 percent of mass 198	0
198	Base peak, 100 percent of relative abundance	100
199	5.0 - 9.0 percent of mass 198	7.3
275	10.0 - 30.0 percent of mass 198	27.2
365	Greater than 1.00 percent of mass 198	2.8
441	Present, but less than mass 443 (percent of 443)	28.6
442	Greater than 40.0 percent of mass 198	82.8
443	17.0 - 23.0 percent of mass 442	20.4

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS/MSD, BLANKS, AND STANDARDS:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	QC BatchID
XXXXXXX	EX131212-8RVS	N8971	12/23/2013	17:23	EX131212-8-1
XXXXXXX	1312134-1	N8973	12/23/2013	18:11	EX131212-8-1
XXXXXXX	EX131216-8MB	N8974	12/23/2013	18:36	EX131216-8-1
XXXXXXX	EX131216-8LCS	N8975	12/23/2013	19:00	EX131216-8-1
XXXXXXX	EX131216-8LCSD	N8976	12/23/2013	19:24	EX131216-8-1
XXXXXXX	EX131216-8RVS	N8977	12/23/2013	19:49	EX131216-8-1
285485 Molokai 13-36	1312158-1	N8979	12/23/2013	20:37	EX131216-8-1

Data Package ID: SV1312158-1

HPSV1
122313S1

FORM 6

	N8966.D	N8965.D	N8964.D	N8958.D	N8963.D	N8962.D	N8961.D	N8960.D	N8959.D	Average	%RSD	Curve type	Corr (r2)	Higher order equation
	120	100	80	60	40	20	10	5.000	1.000					quad term linear term const term
1,4-Dichlorobenzene-d4	0.700	0.705	0.709	0.679	0.697	0.685	0.622	0.624	0.697	0.678	4.987	Ave RF	n/a	
1,4-Dioxane	0.986	0.993	1.015	0.957	1.023	1.002	0.955	0.862	1.011	0.978	5.072	Ave RF	n/a	
n-Nitrosodimethylamine	1.527	1.581	1.655	1.537	1.686	1.687	1.540	1.480		1.584	4.804	Ave RF	n/a	
Pyridine	1.391	1.463	1.464	1.420	1.453	1.445	1.405	1.284		1.416	4.198	Ave RF	n/a	
2-Fluorophenol	1.202	1.251	1.267	1.232	1.322	1.395	1.429	1.284		1.294	5.765	Ave RF	n/a	
2-Chlorophenol-d4	1.906	1.873	1.876	1.788	1.972	1.994	1.883	1.779		1.881	4.077	Ave RF	n/a	
Aniline	1.582	1.751	1.745	1.710	1.801	1.774	1.787	1.510		1.720	5.430	Ave RF	n/a	
Phenol-d5	1.728	1.805	1.673	1.567	1.694	1.695	1.711	1.592		1.683	4.475 CCC	Ave RF	n/a	
Phenol	1.985	1.942	2.053	1.998	2.114	2.178	2.044	2.115		2.051	3.951	Ave RF	n/a	
Tetramethylurea	1.150	1.202	1.270	1.179	1.319	1.420	1.366	1.297		1.275	7.374	Ave RF	n/a	
Bis(2-chloroethyl)ether	1.213	1.274	1.299	1.230	1.371	1.461	1.385	1.362		1.324	6.395	Ave RF	n/a	
2-Chlorophenol	1.450	1.503	1.543	1.472	1.595	1.622	1.526	1.523		1.529	3.788	Ave RF	n/a	
1,3-Dichlorobenzene	1.362	1.409	1.439	1.336	1.476	1.518	1.448	1.372		1.420	4.331 CCC	Ave RF	n/a	
1,2-Dichlorobenzene	0.839	0.873	0.899	0.866	0.953	1.036	1.141	1.211		0.977	14.157	Ave RF	n/a	
1,2-Dichlorobenzene	1.211	1.264	1.287	1.230	1.357	1.430	1.361	1.325		1.308	5.659	Ave RF	n/a	
Benzyl Alcohol	0.849	0.880	0.899	0.837	0.898	0.912	0.822	0.765		0.856	5.658	Ave RF	n/a	
2-Methylphenol	1.006	1.060	1.065	1.008	1.095	1.130	1.064	1.034		1.058	3.976	Ave RF	n/a	
Bis(2-chloroisopropyl)ether	1.730	1.822	1.894	1.772	1.978	2.076	1.973	1.918		1.896	6.119	Ave RF	n/a	
n-Nitroso-di-n-propylamine	0.769	0.806	0.846	0.815	0.896	0.950	0.918	0.859		0.858	7.140 SPCC	Ave RF	n/a	
3+4-Methylphenol	1.183	1.225	1.287	1.232	1.369	1.377	1.328	1.220		1.278	5.754	Ave RF	n/a	
N-Methylaniline	1.795	1.812	1.874	1.814	1.925	1.936	1.879	1.813		1.856	2.978	Ave RF	n/a	
Hexachloroethane	0.560	0.591	0.596	0.570	0.612	0.625	0.579	0.556		0.586	4.196	Ave RF	n/a	
Naphthalene-d8														
Nitrobenzene-d5	0.304	0.317	0.328	0.340	0.340	0.348	0.370	0.329		0.334	5.994	Ave RF	n/a	
N,N-Dimethylaniline	0.445	0.451	0.468	0.494	0.495	0.531	0.504	0.524		0.489	6.509	Ave RF	n/a	
Nitrobenzene	0.378	0.393	0.409	0.415	0.446	0.478	0.458	0.482		0.430	8.422	Ave RF	n/a	
Isophorone	0.553	0.576	0.624	0.621	0.643	0.654	0.626	0.584		0.610	5.756	Ave RF	n/a	
N-Ethylaniline	0.531	0.543	0.556	0.595	0.599	0.631	0.610	0.615		0.585	6.270	Ave RF	n/a	
2-Nitrophenol	0.175	0.180	0.185	0.176	0.184	0.180	0.162	0.152		0.174	6.701 CCC	Ave RF	n/a	
2,4-Dimethylphenol	0.292	0.299	0.312	0.316	0.334	0.354	0.338	0.333		0.322	6.531	Ave RF	n/a	
Bis(2-chloroethoxy)methane	0.350	0.368	0.379	0.374	0.383	0.389	0.378	0.367		0.374	3.827	Ave RF	n/a	
Benzoic acid	0.187	0.172	0.156	0.169	0.151	0.129				0.161	12.351 CCC	Ave RF	n/a	
2,4-Dichlorophenol	0.289	0.281	0.287	0.290	0.303	0.302	0.285	0.272		0.286	4.351	Ave RF	n/a	
1,2,4-Trichlorobenzene	0.300	0.312	0.324	0.324	0.343	0.351	0.345	0.340		0.330	5.412	Ave RF	n/a	
Naphthalene	0.883	0.911	0.943	0.944	0.958	0.977	0.939	0.895		0.931	3.451	Ave RF	n/a	
4-Chloroaniline	0.345	0.355	0.370	0.359	0.380	0.394	0.383	0.348		0.364	4.624	Ave RF	n/a	
Hexachlorobutadiene	0.178	0.183	0.190	0.194	0.203	0.209	0.203	0.197		0.194	5.771 CCC	Ave RF	n/a	
4-Chloro-3-methylphenol	0.277	0.289	0.298	0.306	0.313	0.316	0.295	0.269		0.295	5.633 CCC	Ave RF	n/a	
2-Methylnaphthalene	0.603	0.625	0.654	0.653	0.695	0.704	0.679	0.632		0.656	5.387	Ave RF	n/a	
Acenaphthene-d10														
1-Methylnaphthalene	1.105	1.123	1.213	1.216	1.253	1.312	1.302	1.246		1.221	6.157	Ave RF	n/a	
Hexachlorocyclopentadiene	0.289	0.297	0.306	0.329	0.315	0.301	0.263	0.239		0.294	9.877 SPCC	Ave RF	n/a	
2,4,6-Trichlorophenol	0.395	0.409	0.414	0.412	0.424	0.430	0.404	0.354		0.405	5.791 CCC	Ave RF	n/a	
2,4,5-Trichlorophenol	0.353	0.360	0.385	0.393	0.415	0.420	0.407	0.366		0.387	6.689	Ave RF	n/a	
2-Fluorobiphenyl	1.180	1.208	1.276	1.331	1.348	1.408	1.523	1.418		1.336	8.581	Ave RF	n/a	
2-Chloronaphthalene	1.085	1.099	1.163	1.164	1.202	1.246	1.218	1.167		1.168	4.734	Ave RF	n/a	
2-Nitroaniline	0.320	0.331	0.321	0.323	0.333	0.332	0.316	0.264		0.318	7.119	Ave RF	n/a	
1,4-Dinitrobenzene	0.211	0.213	0.197	0.191	0.195	0.188	0.149	0.116		0.180	18.656	Ave RF	n/a	
Dimethylphthalate	1.172	1.214	1.216	1.190	1.215	1.233	1.237	1.189		1.208	1.878	Ave RF	n/a	
1,3-Dinitrobenzene	0.226	0.223	0.219	0.218	0.217	0.205	0.187	0.153		0.206	12.085	Ave RF	n/a	
2,6-Dinitrotoluene	0.258	0.283	0.278	0.270	0.283	0.288	0.275	0.252		0.271	4.557	Ave RF	n/a	
1,2-Dinitrobenzene	0.145	0.147	0.145	0.144	0.148	0.137	0.133	0.121		0.140	6.368	Ave RF	n/a	
Acenaphthylene	1.631	1.653	1.739	1.749	1.789	1.871	1.810	1.778		1.752	4.523	Ave RF	n/a	
3-Nitroaniline	0.308	0.311	0.290	0.285	0.290	0.268	0.254	0.233		0.280	9.511	Ave RF	n/a	
Acenaphthene	0.997	1.008	1.046	1.045	1.082	1.086	1.050	1.002		1.039	3.321 CCC	Ave RF	n/a	
2,4-Dinitrophenol	0.160	0.154	0.134	0.127	0.122	0.085				0.130	20.717 SPCC	quadratic	0.998	0.01963 0.10605 -0.01212
4-Nitrophenol	0.154	0.156	0.147	0.145	0.143	0.114				0.143	10.468 SPCC	Ave RF	n/a	
Dibenzofuran	1.425	1.457	1.492	1.513	1.601	1.635	1.628	1.510		1.533	5.182	Ave RF	n/a	
2,4-Dinitrotoluene	0.380	0.390	0.392	0.381	0.382	0.333	0.322	0.260		0.355	13.126	Ave RF	n/a	
2,3,5,6-Tetrachlorophenol	0.335	0.348	0.331	0.325	0.336	0.301	0.279			0.322	7.407	Ave RF	n/a	
2,3,4,6-Tetrachlorophenol	0.320	0.329	0.328	0.317	0.332	0.334	0.304			0.324	3.234	Ave RF	n/a	
Diethylphthalate	1.131	1.134	1.205	1.168	1.191	1.159	1.144	1.091		1.153	3.134	Ave RF	n/a	
4-Chlorophenyl phenyl ether	0.624	0.651	0.659	0.655	0.680	0.705	0.681	0.667		0.664	3.658	Ave RF	n/a	
4-Nitroaniline	0.254	0.259	0.247	0.255	0.258	0.238	0.231	0.192		0.242	9.322	Ave RF	n/a	
Fluorene	1.093	1.118	1.128	1.118	1.174	1.217	1.232	1.171		1.156	4.332	Ave RF	n/a	
Azobenzene	1.025	1.051	1.079	1.067	1.121	1.129	1.126	1.064		1.083	3.562	Ave RF	n/a	
2,4,6-Tribromophenol	0.184	0.165	0.168	0.170	0.162	0.152	0.155			0.162	4.165	Ave RF	n/a	
Phenanthrene-d10														
4,6-Dinitro-2-methylphenol	0.109	0.114	0.105	0.101	0.101	0.091				0.104	7.734	Ave RF	n/a	
n-Nitrosodiphenylamine	0.508	0.523	0.534	0.537	0.580	0.598	0.604	0.575		0.555	6.364 CCC	Ave RF	n/a	
4-Bromophenyl phenyl ether	0.194	0.205	0.210	0.211	0.220	0.240	0.228	0.226		0.217	6.789	Ave RF	n/a	
Hexachlorobenzene	0.179	0.190	0.200	0.205	0.212	0.227	0.220	0.211		0.206	7.638	Ave RF	n/a	
Pentachlorophenol	0.132	0.135	0.136	0.138	0.135	0.124				0.134	3.795 CCC	Ave RF	n/a	
Phenanthrene	0.831	0.892	0.902	0.917	0.940	0.968	0.909	0.886		0.906	4.448	Ave RF	n/a	
Anthracene	0.837	0.887	0.909	0.927	0.976	1.018	0.958	0.913		0.928	5.948	Ave RF	n/a	
Carbazole	0.822	0.868	0.879	0.913	0.954	0.972	0.925	0.875		0.901	5.492	Ave RF	n/a	
Di-n-butylphthalate	0.996	1.081	1.155	1.168	1.248	1.303	1.231	1.179		1.170	8.292	Ave RF	n/a	
Fluoranthene	1.054	1.126	1.220	1.234	1.332	1.415	1.340	1.297		1.252	9.497 CCC	Ave RF	n/a	
Chrysene-d12														
Benzidine	0.667	0.654	0.642	0.739	0.633	0.603	0.614	0.600		0.644	7.014	quadratic	0.995	-0.01223 0.70497 -0.02447
Pyrene	1.188	1.256	1.294	1.306	1.318	1.350	1.316	1.371		1.300	4.382	Ave RF	n/a	
p-Terphenyl-d14	0.811	0.846	0.856	0.882	0.881	0.887	0.952	0.897		0.877	4.708	Ave RF	n/a	
Butylbenzylphthalate	0.493	0.511	0.539	0.544	0.542	0.543	0.502	0.496		0.521	4.388	Ave RF	n/a	
Bis(2-ethylhexyl) adipate	0.352	0.360	0.390	0.400	0.402	0.407	0.385	0.391		0.386	5.148	Ave RF	n/a	
Bis(2-ethylhexyl)phthalate	0.645	0.654	0.695	0.709	0.701	0.693	0.646	0.624		0.671	4.786	Ave RF	n/a	
3,3'-Dichlorobenzidine	0.372	0.378	0.380	0.409	0.399	0.371	0.354	0.355		0.377	5.068	Ave RF	n/a	
Benzo[a]anthracene	1.065	1.102	1.141	1.138	1.171	1.176	1.122	1.124		1.130	3.179	Ave RF	n/a	
Chrysene	0.958	0.988	1.013	1.019	1.045	1.029	0.984	0.955		0.996	3.508	Ave RF	n/a	

FORM 7
Continuing Calibration Verification Report

Data File : D:\HPCHEM\1\DATA\122313\W8967.D
Acq On: 12/23/2013 15:46
Sample: ICVSVSTD050
Misc: ST131223-10

Method: 122313S1
Title: GC-MS Semivolatiles SOP no. 506
Last Upd: Mon Dec 23 16:21:25 2013

Vial: 11
Operator: jk SOP 506 Rev. 12
Inst: GC/MS Ins
Multiplier: 1

		Compound	AvgRF	CCRF	Expt Conc	Found Conc	% Dev or % Drift	Area % Difference	R.T. Dev (min)	Curve Fit Type
1)	ISTD	1,4-Dichlorobenzene-d4	1.000	1.000				109	0.00	Ave RF
2)		1,4-Dioxane	0.678	0.658			-2.8	88	0.00	Ave RF
3)		n-Nitrosodimethylamine	0.978	0.959			-2.0	91	-0.01	Ave RF
4)		Pyridine	1.584	1.576			-0.5	93	0.00	Ave RF
7)		Aniline	1.881	1.946			3.4	99	0.00	Ave RF
9)	CCC	Phenol	1.683	1.764			4.8	102	0.00	Ave RF
10)		Tetramethylurea	2.051	1.844			-10.1	84	0.01	Ave RF
11)		Bis(2-chloroethyl)ether	1.275	1.231			-3.5	95	0.00	Ave RF
12)		2-Chlorophenol	1.324	1.327			0.2	98	0.00	Ave RF
13)		1,3-Dichlorobenzene	1.529	1.476			-3.5	91	0.00	Ave RF
14)	CCC	1,4-Dichlorobenzene	1.420	1.359			-4.2	92	0.00	Ave RF
16)		1,2-Dichlorobenzene	1.308	1.348			3.1	99	0.00	Ave RF
17)		Benzyl Alcohol	0.856	0.830			-3.1	90	0.00	Ave RF
18)		2-Methylphenol	1.058	1.037			-2.0	93	0.00	Ave RF
19)		Bis(2-chloroisopropyl)ether	1.896	1.791			-5.5	92	0.00	Ave RF
20)	SPCC	n-Nitroso-di-n-propylamine	0.850	0.809			-5.7	90	0.00	Ave RF
21)		3+4-Methylphenol	1.278	1.238			-3.1	91	0.00	Ave RF
22)		N-Methylaniline	1.856	1.655			-10.3	83	0.00	Ave RF
23)		Hexachloroethane	0.586	0.562			-4.2	89	0.00	Ave RF
24)	ISTD	Naphthalene-d8	1.000	1.000				108	0.00	Ave RF
26)		N,N-Dimethylaniline	0.489	0.522			6.6	95	0.00	Ave RF
27)		Nitrobenzene	0.430	0.429			-0.1	93	0.00	Ave RF
28)		Isophorone	0.610	0.621			1.7	90	0.00	Ave RF
29)		N-Ethylaniline	0.585	0.592			1.2	89	0.00	Ave RF
30)	CCC	2-Nitrophenol	0.174	0.185			6.3	94	0.00	Ave RF
31)		2,4-Dimethylphenol	0.322	0.319			-1.0	90	0.00	Ave RF
32)		Bis(2-chloroethoxy)methane	0.374	0.379			1.2	91	0.00	Ave RF
33)	CCC	Benzoic acid	0.161	0.174			7.9	92	0.00	Ave RF
34)		2,4-Dichlorophenol	0.286	0.295			3.0	91	0.00	Ave RF
35)		1,2,4-Trichlorobenzene	0.330	0.332			0.7	92	0.00	Ave RF
36)		Naphthalene	0.931	0.849			-8.8	90	0.00	Ave RF
37)		4-Chloroaniline	0.364	0.365			0.3	91	0.00	Ave RF
38)	CCC	Hexachlorobutadiene	0.194	0.204			4.8	94	0.00	Ave RF
39)	CCC	4-Chloro-3-methylphenol	0.295	0.295			0.0	87	0.00	Ave RF
40)		2-Methylnaphthalene	0.656	0.689			5.1	94	0.00	Ave RF
41)	ISTD	Acenaphthene-d10	1.000	1.000				108	0.00	Ave RF
42)		1-Methylnaphthalene	1.221	1.211			-0.9	89	0.00	Ave RF
43)	SPCC	Hexachlorocyclopentadiene	0.294	0.313			6.6	85	0.00	Ave RF
44)	CCC	2,4,6-Trichlorophenol	0.405	0.406			0.1	88	0.00	Ave RF
45)		2,4,5-Trichlorophenol	0.387	0.394			1.8	90	0.00	Ave RF
47)		2-Chloronaphthalene	1.168	1.182			2.0	92	0.00	Ave RF
48)		2-Nitroaniline	0.318	0.339			6.7	94	0.00	Ave RF
49)		1,4-Dinitrobenzene	0.180	0.206			14.4	97	0.00	Ave RF
50)		Dimethylphthalate	1.208	1.208			0.0	91	0.00	Ave RF
51)		1,3-Dinitrobenzene	0.206	0.206			0.0	85	0.00	Ave RF
52)		2,6-Dinitrotoluene	0.271	0.285			5.1	95	0.00	Ave RF
53)		1,2-Dinitrobenzene	0.140	0.177			26.3	110	0.00	Ave RF
54)		Acenaphthylene	1.752	1.848			5.4	95	0.00	Ave RF
55)		3-Nitroaniline	0.280	0.297			6.3	94	0.00	Ave RF
56)	CCC	Acenaphthene	1.039	1.083			4.2	93	0.00	Ave RF
57)	SPCC	2,4-Dinitrophenol	n/a	n/a	50	58.36477628	16.7	105	0.00	quadratic
58)	SPCC	4-Nitrophenol	0.143	0.151			5.7	94	0.00	Ave RF
59)		Dibenzofuran	1.533	1.548			1.0	92	0.00	Ave RF
60)		2,4-Dinitrotoluene	0.355	0.386			8.7	91	0.00	Ave RF
61)		2,3,5,6-Tetrachlorophenol	0.322	0.347			7.8	96	0.00	Ave RF
62)		2,3,4,6-Tetrachlorophenol	0.324	0.315			-2.6	89	0.00	Ave RF
63)		Diethylphthalate	1.153	1.202			4.3	92	0.00	Ave RF
64)		4-Chlorophenyl phenyl ether	0.664	0.671			1.0	92	0.00	Ave RF
65)		4-Nitroaniline	0.242	0.283			17.1	100	0.00	Ave RF
66)		Fluorene	1.156	1.159			0.3	93	0.00	Ave RF
67)		Azobenzene	1.083	1.112			2.6	94	0.00	Ave RF
69)	ISTD	Phenanthrene-d10	1.000	1.000				109	0.00	Ave RF
70)		4,6-Dinitro-2-methylphenol	0.104	0.117			12.8	105	0.00	Ave RF
71)	CCC	n-Nitrosodiphenylamine	0.555	0.554			-0.1	94	0.00	Ave RF
72)		4-Bromophenyl phenyl ether	0.217	0.215			-1.0	83	0.00	Ave RF
73)		Hexachlorobenzene	0.206	0.200			-2.7	89	0.00	Ave RF
74)	CCC	Pentachlorophenol	0.134	0.150			12.2	99	0.00	Ave RF
75)		Phenanthrene	0.906	0.924			2.0	92	0.00	Ave RF
76)		Anthracene	0.928	0.933			0.6	92	0.00	Ave RF
77)		Carbazole	0.901	0.942			4.6	94	0.00	Ave RF
78)		Di-n-butylphthalate	1.170	1.135			-3.0	89	0.00	Ave RF
79)	CCC	Fluoranthene	1.252	1.246			-0.5	92	0.00	Ave RF
80)	ISTD	Chrysene-d12	1.000	1.000				114	-0.01	Ave RF
81)		Benidine	n/a	n/a	50	63.23831814	26.5	109	0.00	quadratic
82)		Pyrene	1.300	1.266			-2.6	92	0.00	Ave RF
84)		Butylbenzylphthalate	0.521	0.545			4.5	95	0.00	Ave RF
85)		Bis(2-ethylhexyl) adipate	0.386	0.390			1.1	93	0.00	Ave RF
86)		Bis(2-ethylhexyl)phthalate	0.671	0.705			5.1	95	-0.01	Ave RF
87)		3,3'-Dichlorobenzidine	0.377	0.389			3.2	91	0.00	Ave RF
88)		Benzo[a]anthracene	1.130	1.121			-0.8	94	0.00	Ave RF
89)		Chrysene	0.996	1.033			3.7	98	0.00	Ave RF
90)	CCC	Di-n-octylphthalate	1.002	1.076			7.5	96	-0.01	Ave RF
91)	ISTD	Perylene-d12	1.000	1.000				117	-0.01	Ave RF
92)		Benzo[b]fluoranthene	1.314	1.311			-0.2	95	-0.01	Ave RF
93)		Benzo[k]fluoranthene	1.204	1.205			0.1	97	-0.01	Ave RF
94)	CCC	Benzo[a]pyrene	1.123	1.118			-0.4	95	-0.01	Ave RF
95)		Indeno[1,2,3-c,d]pyrene	0.875	0.806			-7.8	87	0.00	Ave RF
96)		Dibenzo[a,h]anthracene	0.768	0.722			-5.9	87	-0.01	Ave RF
97)		Benzo[g,h,i]perylene	0.711	0.659			-7.3	85	-0.01	Ave RF

Average of absolute value = 4.6

jk
12-26-13

8B

Semi-Volatile Internal Standard Area Summary

Lab Name: ALS Environmental -- FC
 Work Order Number: 1312158
 Client Name: Colorado Oil & Gas Conservation Commission
 ClientProject ID: TBAL

Date Analyzed: 12/23/2013
 Time Analyzed: 12:07

Reported on: Friday, December 27, 2013

Instrument ID: HPSV1

Lab File ID: N8958

	IS1		IS2		IS3		IS4		IS5		IS6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
12 Hour STD	406896	5.94	1472793	7.16	756545	8.72	1444639	10	1310295	12.27	947562	13.73
Upper Limit	813792	6.44	2945586	7.66	1513090	9.22	2889278	10.5	2620590	12.8	1895124	14.2
Lower Limit	203448	5.44	736397	6.66	378273	8.22	722320	9.5	655148	11.8	473781	13.2
Lab Sample ID												
EX131216-8MB	492938	5.94	1843782	7.16	958963	8.71	1625628	10.00	1756807	12.28	1368694	13.74
EX131216-8LCS	443869	5.94	1623924	7.16	838094	8.72	1603159	10.00	1523915	12.29	1055444	13.74
EX131216-8LCSD	447374	5.94	1634649	7.16	855477	8.72	1667532	10.00	1543696	12.28	1114633	13.74
EX131216-8RVS	505173	5.94	1724032	7.16	886751	8.72	1536717	10.00	1582027	12.27	1248816	13.73
1312158-1	546708	5.94	2038371	7.15	1063639	8.72	1796951	10.00	1956394	12.28	1493112	13.74

Shaded values exceed established area count limits.

LIMS Version: 6.682

Upper Limit = + 100 percent of internal standard area.

Lower Limit = - 50 percent of internal standard area.



Supporting Raw Data

GCMS Semivolatle Instrument Run Log
ALS Laboratory Group

Sequence Name: D:\HPCHEM\1\SEQUENCE\122313S.S
Comment: HPSV-1 5973 MSDMS Serial Number US80210987
Data Path: D:\HPCHEM\1\DATA\122313\
Operator:jk SOP 506 Rev. 12
IS Amount and ID 40% 122313002-1
Logbook Number: 2985

Analysis Date: December 23, 2013 JK

Line Type	Vial	DataFile	Method	Sample Name	Dil.	RA?	Comment
1	DFTPP	1 N8957	DFTPP	50 ppm dftpp+PC	1		SR131007-1
2	Sample	2 N8958	122313S1	ICALSVSTD060			SR131216-1
3	Sample	3 N8959	122313S1	ICALSVSTD001			SR130926-5
4	Sample	4 N8960	122313S1	ICALSVSTD005			SR130926-6
5	Sample	5 N8961	122313S1	ICALSVSTD010			SR130926-7
6	Sample	6 N8962	122313S1	ICALSVSTD020			SR130926-8
7	Sample	7 N8963	122313S1	ICALSVSTD040			SR130926-9
8	Sample	8 N8964	122313S1	ICALSVSTD080			SR130926-10
9	Sample	9 N8965	122313S1	ICALSVSTD100			SR130926-11
10	Sample	10 N8966	122313S1	ICALSVSTD120			SR130926-12
11	Sample	11 N8967	122313S1	ICVSVSTD050			SR130926-10
12	Sample	12 N8968	122313S1	EX131212-8MB T			
13	Sample	13 N8969	122313S1	EX131212-8LCS			
14	Sample	14 N8970	122313S1	EX131212-8LCSD			
15	Sample	15 N8971	122313S1	EX131212-8RVS			
16	Sample	16 N8972	122313S1	1312134-1 5X	5X		
17	Sample	17 N8973	122313S1	1312134-1 T	1		500-81
18	Sample	18 N8974	122313S1	EX131216-8MB T			500-84
19	Sample	19 N8975	122313S1	EX131216-8LCS			1057L
20	Sample	20 N8976	122313S1	EX131216-8LCSD			
21	Sample	21 N8977	122313S1	EX131216-8RVS			
22	Sample	22 N8978	122313S1	1312158-1 5X	5X		
23	Sample	23 N8979	122313S1	1312158-1 T	1		1057P



Calibration Raw Data

DFTPP

Data File : D:\HPCHEM\1\DATA\122313\N8957.D

Vial: 1

Acq On : 23 Dec 2013 11:51

Operator: jk SOP 50

Sample : 50 ppm dftpp+PCP+DDT+benzidine

Inst : GC/MS Ins

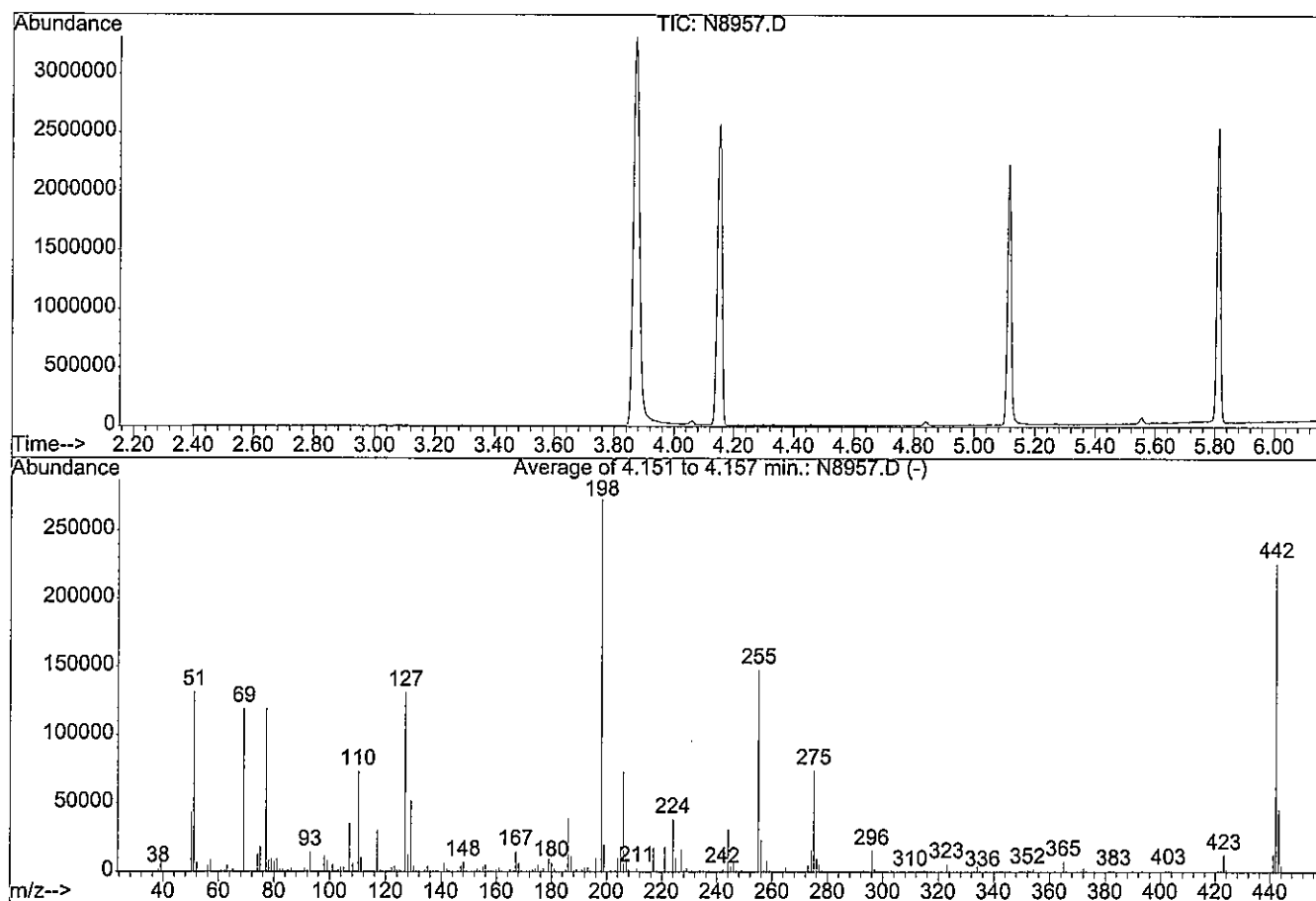
Misc : ST131007-1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : D:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : DFTPP



AutoFind: Scans 620, 621, 622; Background Corrected with Scan 608

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.1	131552	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	119432	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.0	131320	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	273472	PASS
199	198	5	9	7.3	19960	PASS
275	198	10	30	27.2	74256	PASS
365	198	1	100	2.8	7540	PASS
441	443	0.01	100	28.6	13192	PASS
442	198	40	100	82.8	226517	PASS
443	442	17	23	20.4	46115	PASS

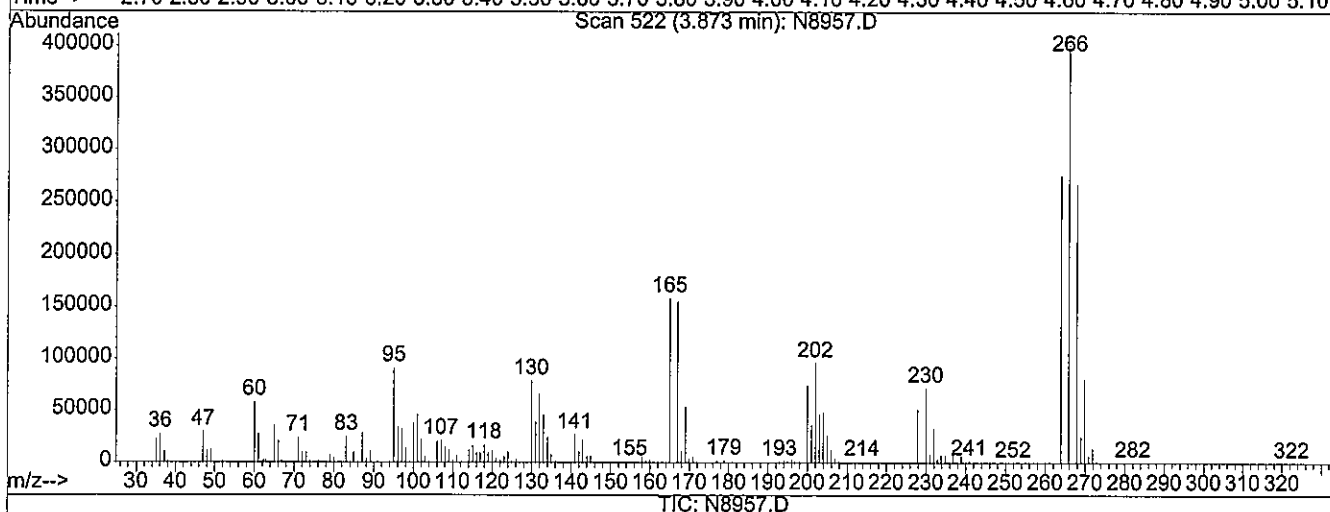
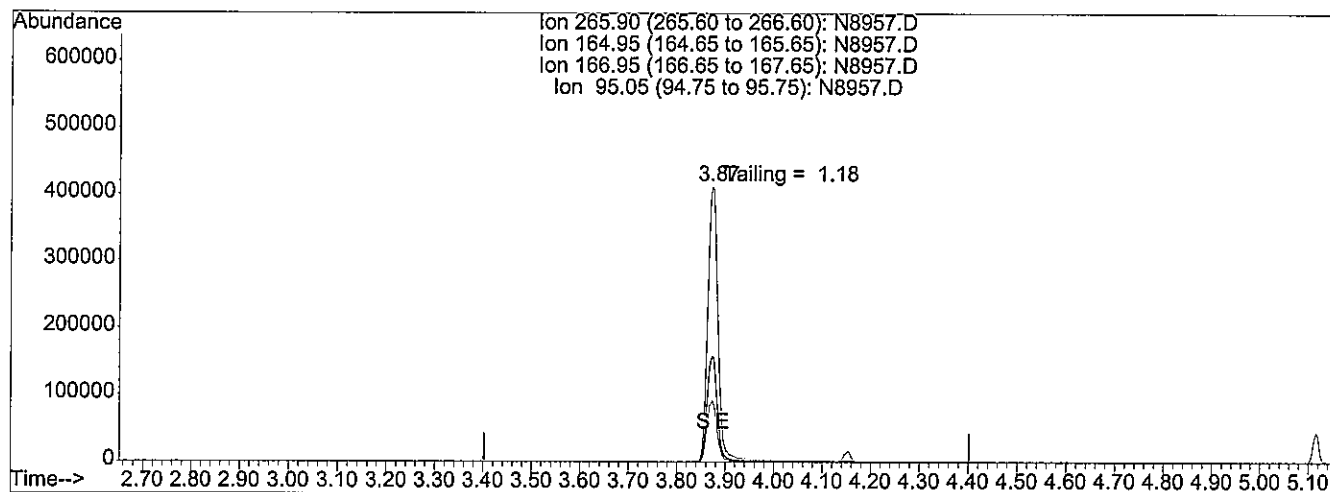
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8957.D
 Acq On : 23 Dec 2013 11:51
 Sample : 50 ppm dftpp+PCP+DDT+benzidine
 Misc : ST131007-1
 MS Integration Params: rteint.p
 Quant Time: Dec 23 11:59 2013

Vial: 1
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : DFTPP
 Last Update : Tue Dec 17 13:20:17 2013
 Response via : Single Level Calibration



(1) Pentachlorophenol

3.87min 67.89

response 613605

Ion	Exp%	Act%
265.90	100	100
164.95	0.00	38.75#
166.95	0.00	38.39#
95.05	0.00	22.29#

21
12-26-13

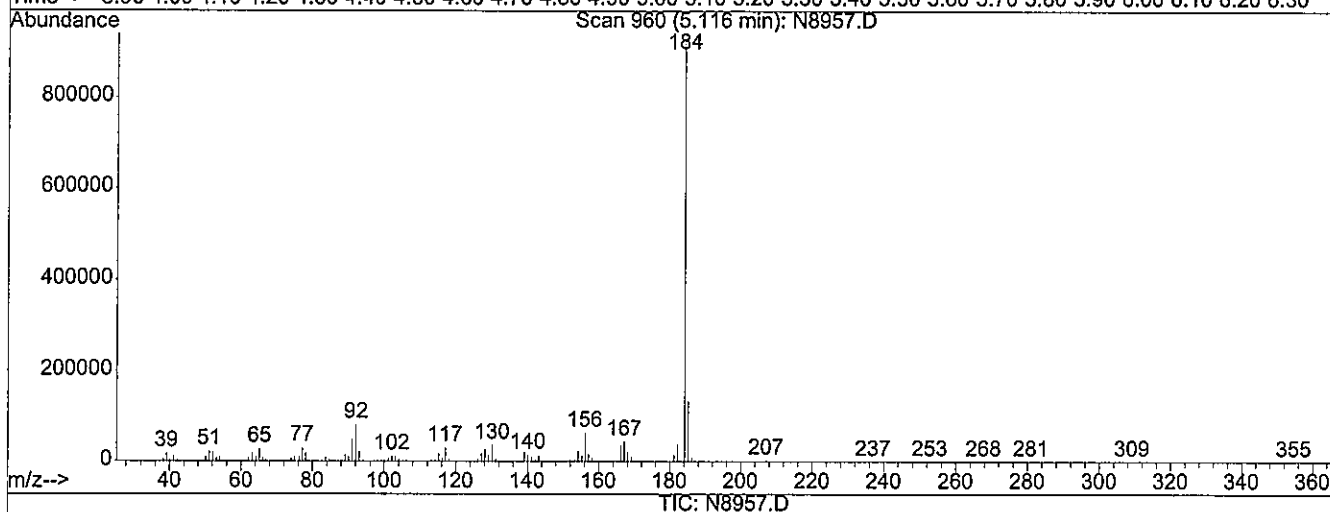
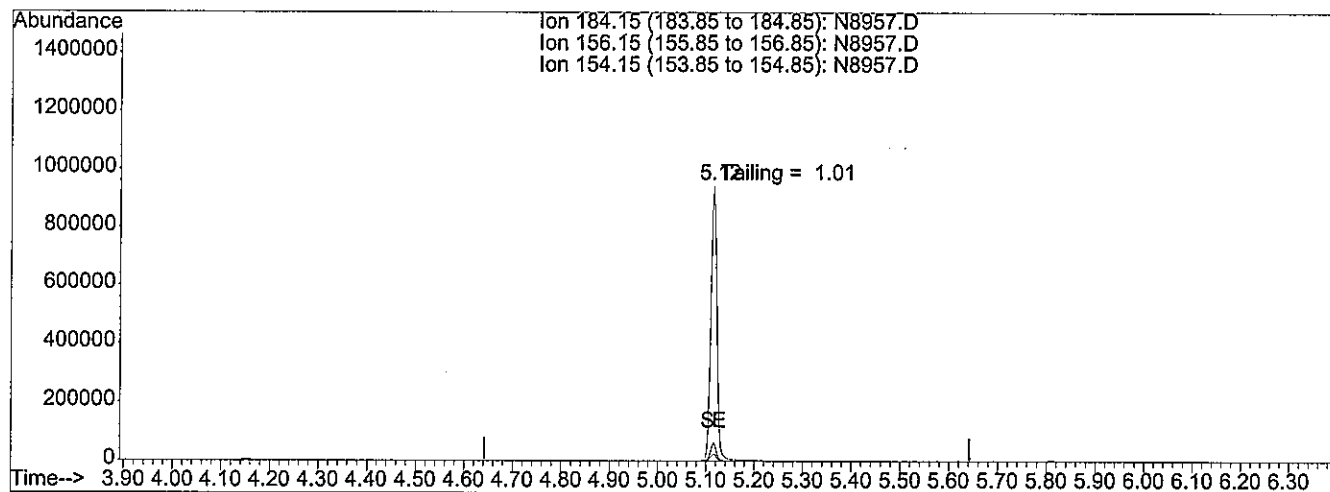
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8957.D
 Acq On : 23 Dec 2013 11:51
 Sample : 50 ppm dftpp+PCP+DDT+benzidine
 Misc : ST131007-1
 MS Integration Params: rteint.p
 Quant Time: Dec 23 11:59 2013

Vial: 1
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : DFTPP
 Last Update : Tue Dec 17 13:20:17 2013
 Response via : Single Level Calibration



(3) Benzidine

5.12min 102.17

response 837711

Ion	Exp%	Act%
184.15	100	100
156.15	0.00	6.27#
154.15	0.00	2.56#
0.00	0.00	0.00

24
12-24-0

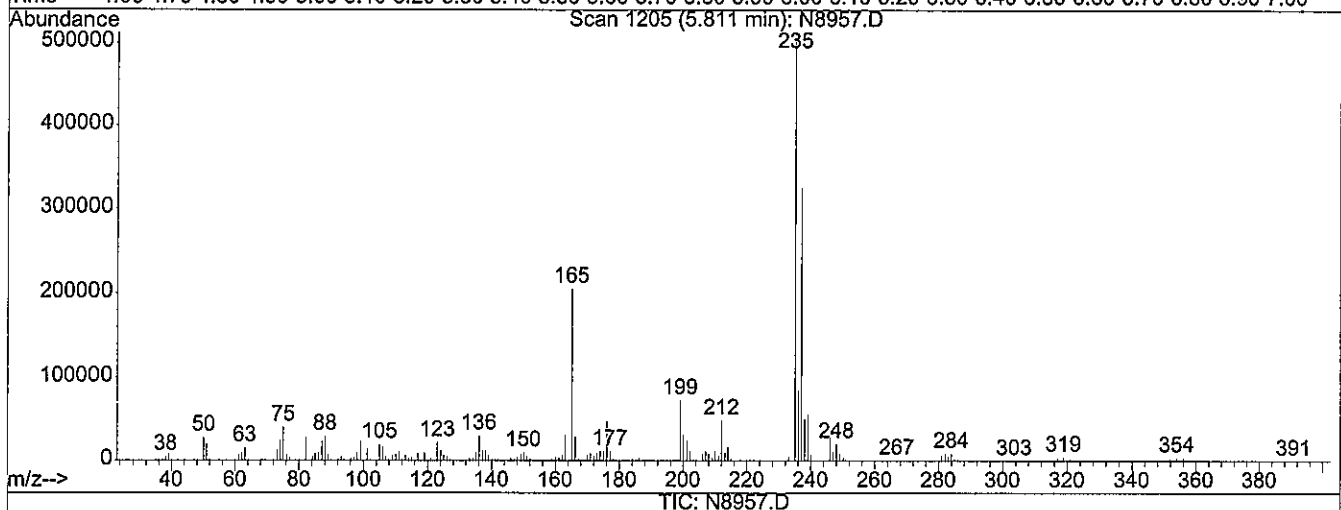
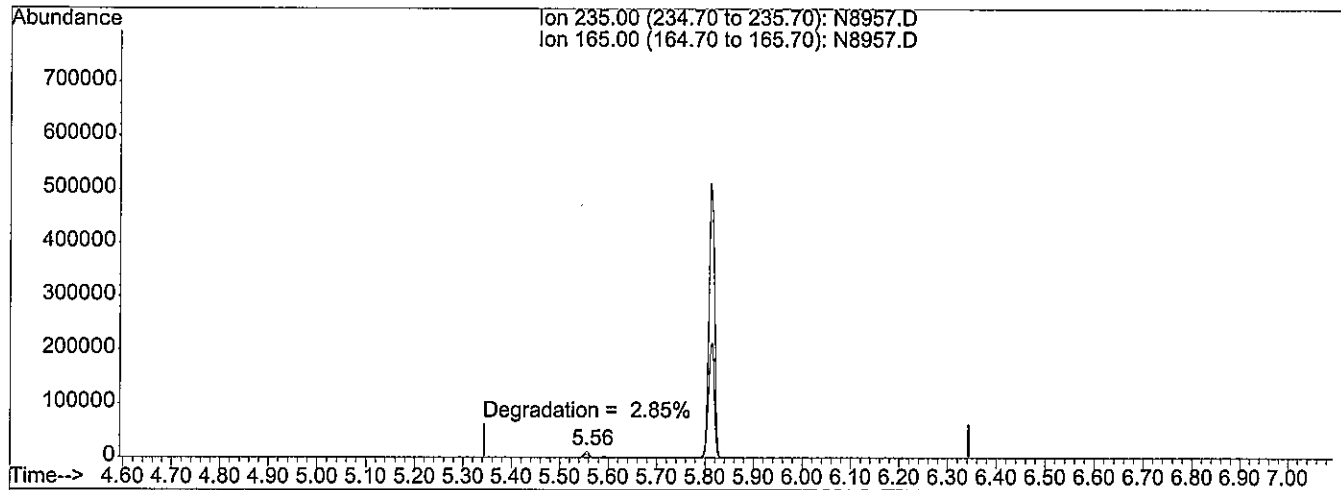
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8957.D
 Acq On : 23 Dec 2013 11:51
 Sample : 50 ppm dftpp+PCP+DDT+benzidine
 Misc : ST131007-1
 MS Integration Params: rteint.p
 Quant Time: Dec 23 11:59 2013

Vial: 1
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : DFTPP
 Last Update : Tue Dec 17 13:20:17 2013
 Response via : Single Level Calibration



(4) DDT

5.81min 67.6050

response 419968

Ion	Exp%	Act%
235.00	100	100
165.00	0.00	41.77#
0.00	0.00	0.00
0.00	0.00	0.00

94
 12-26-13

Data File : D:\HPCHEM\1\DATA\122313\N8958.D

Vial: 2

Acq On : 23 Dec 2013 12:07

Operator: jk SOP 506 Rev

Sample : ICALSVSTD060

Inst : GC/MS Ins

Misc : ST131216-1 60 PPM

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:31 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:29:24 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	406896	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1472793	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	756545	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1444639	40.00	ng/uL	0.00
80) Chrysene-d12	12.27	240	1310295	40.00	ng/uL	0.00
91) Perylene-d12	13.73	264	947562	40.00	ng/uL	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	866894m	64.99	ng/uL	0.00
Spiked Amount 75.000	Range 46 - 105		Recovery =	86.65%		
6) 2-Chlorophenol-d4	5.72	132	752065	60.00	ng/uL	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery =	80.00%		
8) Phenol-d5	5.54	99	1043715	60.00	ng/uL	0.00
Spiked Amount 75.000	Range 50 - 109		Recovery =	80.00%		
15) 1,2-Dichlorobenzene-d4	6.10	152	528677	60.00	ng/uL	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery =	120.00%#		
25) Nitrobenzene-d5	6.48	82	750893	60.00	ng/uL	0.00
Spiked Amount 50.000	Range 53 - 111		Recovery =	120.00%#		
46) 2-Fluorobiphenyl	8.10	172	1510306	60.00	ng/uL	0.00
Spiked Amount 50.000	Range 55 - 108		Recovery =	120.00%#		
68) 2,4,6-Tribromophenol	9.40	330	193009	60.00	ng/uL	0.00
Spiked Amount 75.000	Range 42 - 117		Recovery =	80.00%		
83) p-Terphenyl-d14	11.32	244	1733619	60.00	ng/uL	0.00
Spiked Amount 50.000	Range 34 - 139		Recovery =	120.00%		

Target Compounds

					Qvalue
2) 1,4-Dioxane	2.38	88	414651m	64.42	ng/uL
3) n-Nitrosodimethylamine	2.79	74	584381m	65.84	ng/uL
4) Pyridine	2.87	79	937978m	66.11	ng/uL
7) Aniline	5.61	93	1091346	60.00	ng/uL 100
9) Phenol	5.56	94	956438	60.00	ng/uL 100
10) Tetramethylurea	5.68	72	1219534	60.00	ng/uL 100
11) Bis(2-chloroethyl) ether	5.65	93	719662	60.00	ng/uL 100
12) 2-Chlorophenol	5.74	128	750766	60.00	ng/uL 100
13) 1,3-Dichlorobenzene	5.89	146	898346	60.00	ng/uL 100
14) 1,4-Dichlorobenzene	5.96	146	815592	60.00	ng/uL 100
16) 1,2-Dichlorobenzene	6.12	146	750931	60.00	ng/uL 100
17) Benzyl Alcohol	6.06	108	510879	60.00	ng/uL 100
18) 2-Methylphenol	6.17	107	615446	60.00	ng/uL 100
19) Bis(2-chloroisopropyl) ether	6.18	45	1081777	60.00	ng/uL 100
20) n-Nitroso-di-n-propylamine	6.32	70	497352	60.00	ng/uL 100
21) 3+4-Methylphenol	6.31	108	752131	60.00	ng/uL 100

(#)=qualifier out of range (m)=manual integration

N8958.D 122313S1.M Mon Dec 23 12:32:06 2013

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12-24-11

Page 1

42 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8958.D

Vial: 2

Acq On : 23 Dec 2013 12:07

Operator: jk SOP 506 Rev

Sample : ICALSVSTD060

Inst : GC/MS Ins

Misc : ST131216-1 60 PPM

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:31 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:29:24 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.31	106	1107096	60.00	ng/uL	100
23) Hexachloroethane	6.45	117	347877	60.00	ng/uL	100
26) N,N-Dimethylaniline	6.50	120	1092138	60.00	ng/uL	100
27) Nitrobenzene	6.50	77	917905	60.00	ng/uL	100
28) Isophorone	6.72	82	1372202	60.00	ng/uL	100
29) N-Ethylaniline	6.74	106	1314503	60.00	ng/uL	100
30) 2-Nitrophenol	6.80	139	388929	60.00	ng/uL	100
31) 2,4-Dimethylphenol	6.81	107	698659	60.00	ng/uL	100
32) Bis(2-chloroethoxy)methane	6.89	93	826660	60.00	ng/uL	100
33) Benzoic acid	6.92	105	374236m	62.82	ng/uL	
34) 2,4-Dichlorophenol	7.02	162	640492	60.00	ng/uL	100
35) 1,2,4-Trichlorobenzene	7.10	180	716080	60.00	ng/uL	100
36) Naphthalene	7.18	128	2085489	60.00	ng/uL#	100
37) 4-Chloroaniline	7.20	127	792180m	56.94	ng/uL	
38) Hexachlorobutadiene	7.28	225	428239	60.00	ng/uL	100
39) 4-Chloro-3-methylphenol	7.62	107	675652	60.00	ng/uL	100
40) 2-Methylnaphthalene	7.80	142	1443330	60.00	ng/uL	100
42) 1-Methylnaphthalene	7.89	142	1379742	60.00	ng/uL	100
43) Hexachlorocyclopentadiene	7.93	237	373067	60.00	ng/uL	100
44) 2,4,6-Trichlorophenol	8.03	196	467667	60.00	ng/uL	100
45) 2,4,5-Trichlorophenol	8.07	196	445596	60.00	ng/uL	100
47) 2-Chloronaphthalene	8.23	162	1320985	60.00	ng/uL	100
48) 2-Nitroaniline	8.30	65	367099	60.00	ng/uL	100
49) 1,4-Dinitrobenzene	8.40	168	216606	60.00	ng/uL	100
50) Dimethylphthalate	8.43	163	1350276	60.00	ng/uL	100
51) 1,3-Dinitrobenzene	8.48	168	247040	60.00	ng/uL	100
52) 2,6-Dinitrotoluene	8.50	165	306852	60.00	ng/uL	100
53) 1,2-Dinitrobenzene	8.56	168	162997	60.00	ng/uL	100
54) Acenaphthylene	8.60	152	1984337	60.00	ng/uL	100
55) 3-Nitroaniline	8.66	138	323378	60.00	ng/uL	100
56) Acenaphthene	8.75	154	1186116	60.00	ng/uL	100
57) 2,4-Dinitrophenol	8.74	184	143555	60.00	ng/uL	100
58) 4-Nitrophenol	8.78	109	164271	60.00	ng/uL	100
59) Dibenzofuran	8.89	168	1716872	60.00	ng/uL	100
60) 2,4-Dinitrotoluene	8.85	165	432637	60.00	ng/uL	100
61) 2,3,5,6-Tetrachlorophenol	8.95	232	368840	60.00	ng/uL	100
62) 2,3,4,6-Tetrachlorophenol	8.99	232	360260	60.00	ng/uL	100
63) Diethylphthalate	9.03	149	1325622	60.00	ng/uL	100
64) 4-Chlorophenyl phenyl ethe	9.16	204	743098	60.00	ng/uL	100
65) 4-Nitroaniline	9.19	138	289685	60.00	ng/uL	100
66) Fluorene	9.19	166	1268922	60.00	ng/uL	100

(#)=qualifier out of range (m)=manual integration

N8958.D 122313S1.M Mon Dec 23 12:32:06 2013

Data File : D:\HPCHEM\1\DATA\122313\N8958.D

Vial: 2

Acq On : 23 Dec 2013 12:07

Operator: jk SOP 506 Rev

Sample : ICALSVSTD060

Inst : GC/MS Ins

Misc : ST131216-1 60 PPM

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:31 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:29:24 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.30	77	1210711	60.00	ng/uL	100
70) 4,6-Dinitro-2-methylphenol	9.21	198	219657	60.00	ng/uL	100
71) n-Nitrosodiphenylamine	9.26	169	1163139	60.00	ng/uL	100
72) 4-Bromophenyl phenyl ether	9.58	248	456926	60.00	ng/uL	100
73) Hexachlorobenzene	9.67	284	444635	60.00	ng/uL	100
74) Pentachlorophenol	9.83	266	299908m	62.16	ng/uL	
75) Phenanthrene	10.02	178	1986876	60.00	ng/uL	100
76) Anthracene	10.07	178	2009129	60.00	ng/uL	100
77) Carbazole	10.18	167	1979509	60.00	ng/uL	100
78) Di-n-butylphthalate	10.41	149	2530249	60.00	ng/uL	100
79) Fluoranthene	11.04	202	2674049	60.00	ng/uL	100
81) Benzydine	11.12	184	1452238	60.00	ng/uL	100
82) Pyrene	11.25	202	2566275	60.00	ng/uL	100
84) Butylbenzylphthalate	11.69	149	1068393	60.00	ng/uL	100
85) Bis(2-ethylhexyl) adipate	11.71	129	785698	60.00	ng/uL	100
86) Bis(2-ethylhexyl)phthalate	12.14	149	1394066	60.00	ng/uL	100
87) 3,3'-Dichlorobenzidine	12.20	252	803348	60.00	ng/uL	100
88) Benzo[a]anthracene	12.26	228	2237623	60.00	ng/uL	100
89) Chrysene	12.30	228	2003360	60.00	ng/uL	100
90) Di-n-octylphthalate	12.70	149	2106765	60.00	ng/uL	100
92) Benzo[b]fluoranthene	13.29	252	1921672	60.00	ng/uL	100
93) Benzo[k]fluoranthene	13.32	252	1733834	60.00	ng/uL	100
94) Benzo[a]pyrene	13.67	252	1640251	60.00	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.17	276	1289302	60.00	ng/uL	100
96) Dibenzo[a,h]anthracene	15.16	278	1149823	60.00	ng/uL	100
97) Benzo[g,h,i]perylene	15.61	276	1080262	60.00	ng/uL	100

(#) = qualifier out of range (m) = manual integration

N8958.D 122313S1.M Mon Dec 23 12:32:07 2013

Page 3

44 of 211

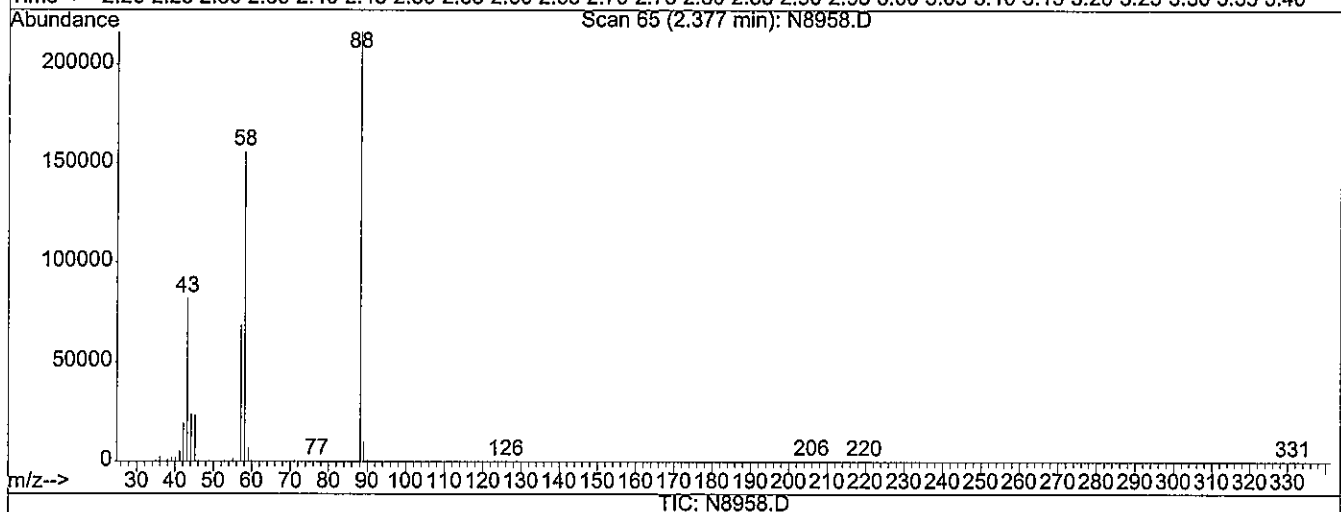
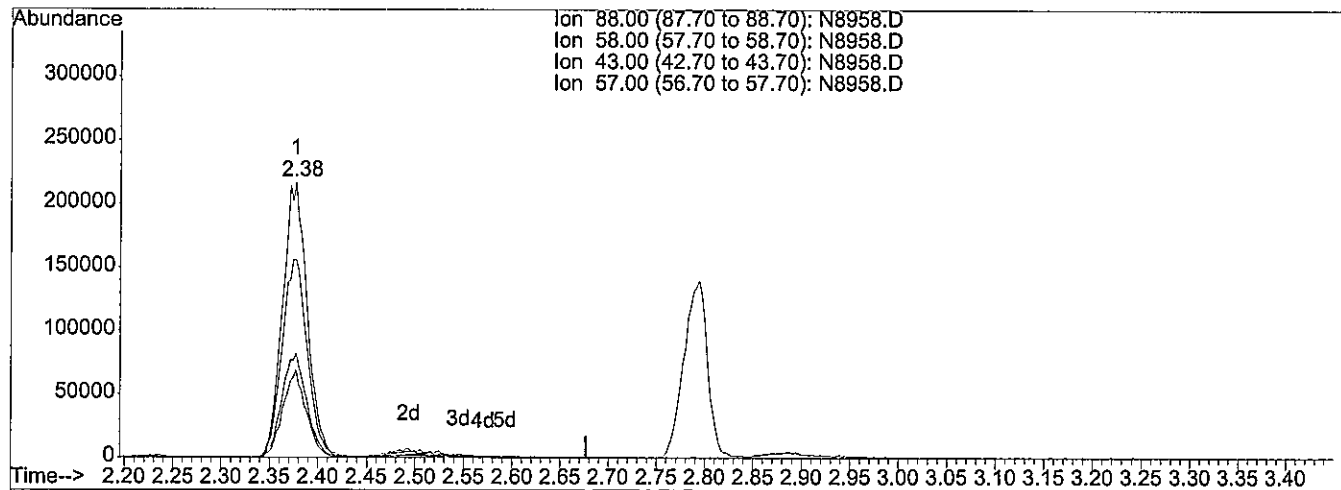
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:29 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 60.00ng/uL

response 386174

Ion	Exp%	Act%
88.00	100	100
58.00	74.10	74.15
43.00	38.20	38.22
57.00	30.00	29.99

2.38

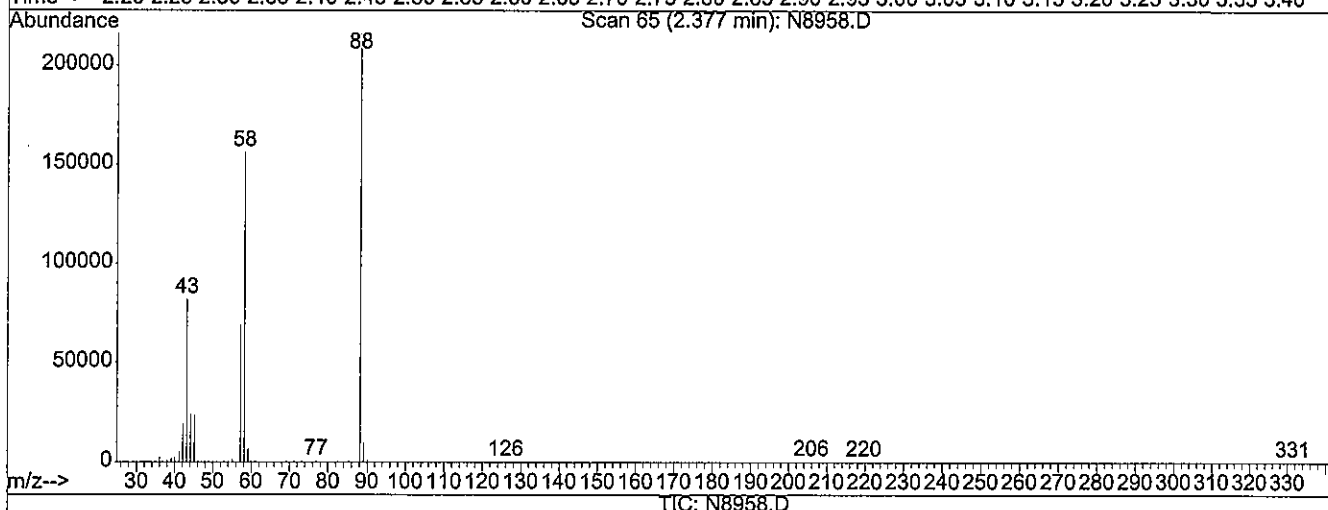
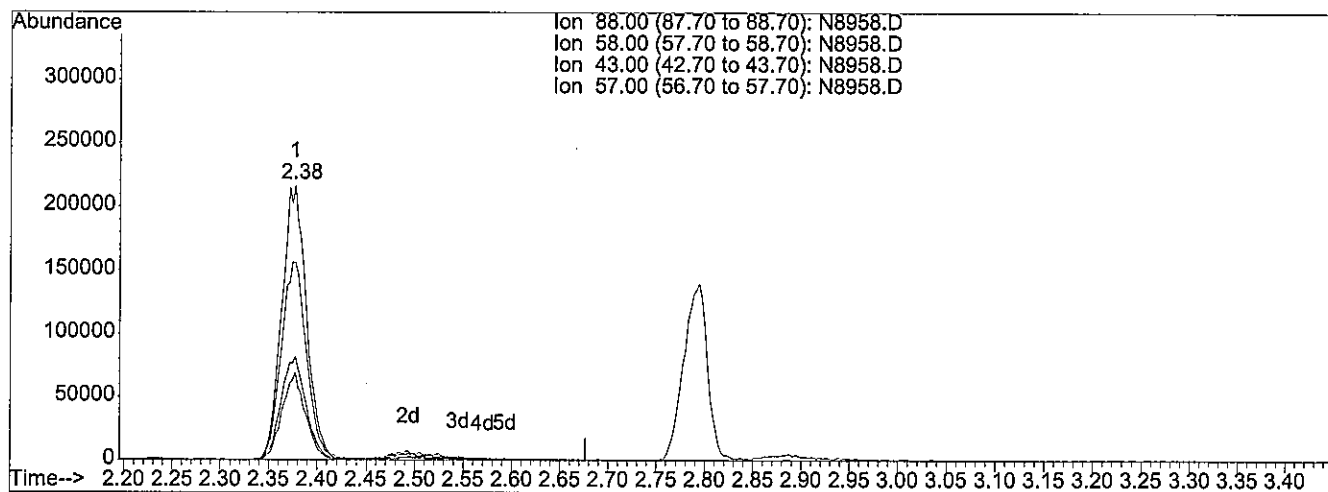
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:29 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 64.42ng/uL m

response 414651

Ion	Exp%	Act%
88.00	100	100
58.00	74.10	69.05
43.00	38.20	35.59
57.00	30.00	27.93

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

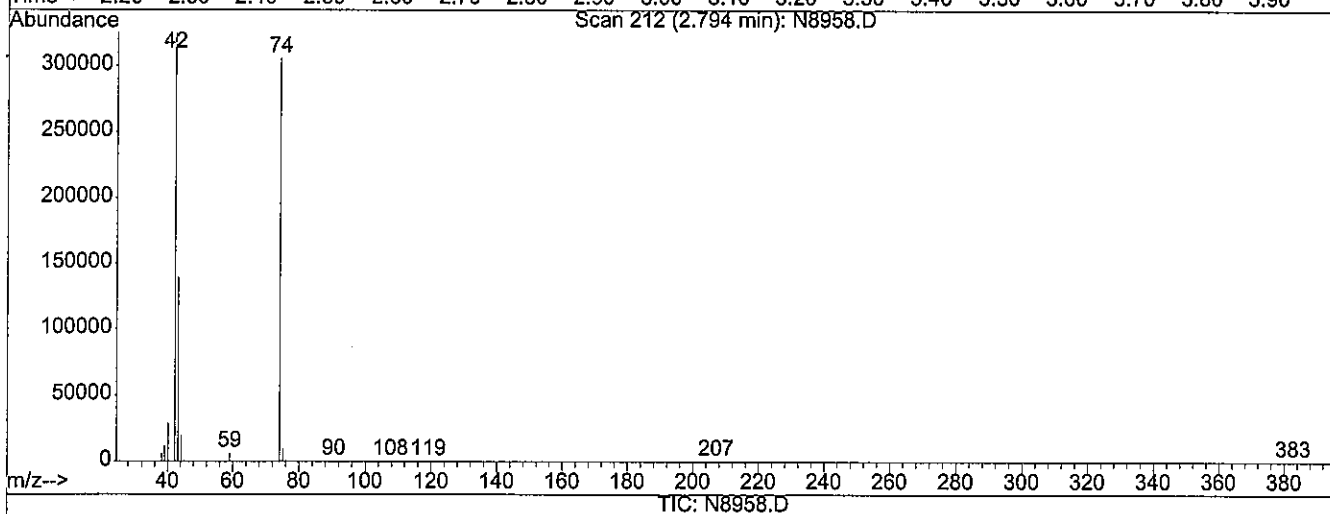
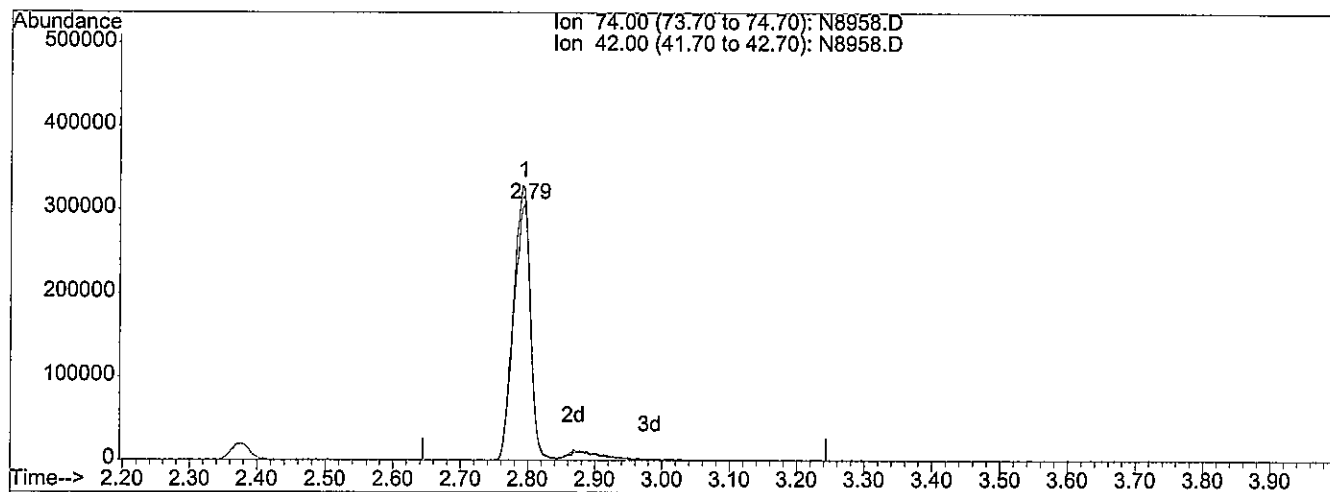
Quantitation Report (Qedit)

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 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:29 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 60.00ng/uL

response 532517

Ion	Exp%	Act%
74.00	100	100
42.00	108.50	108.51
0.00	0.00	0.00
0.00	0.00	0.00

360

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D

Vial: 2

Acq On : 23 Dec 2013 12:07

Operator: jk SOP 50

Sample : ICALSVSTD060

Inst : GC/MS Ins

Misc : ST131216-1 60 PPM

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:29 2013

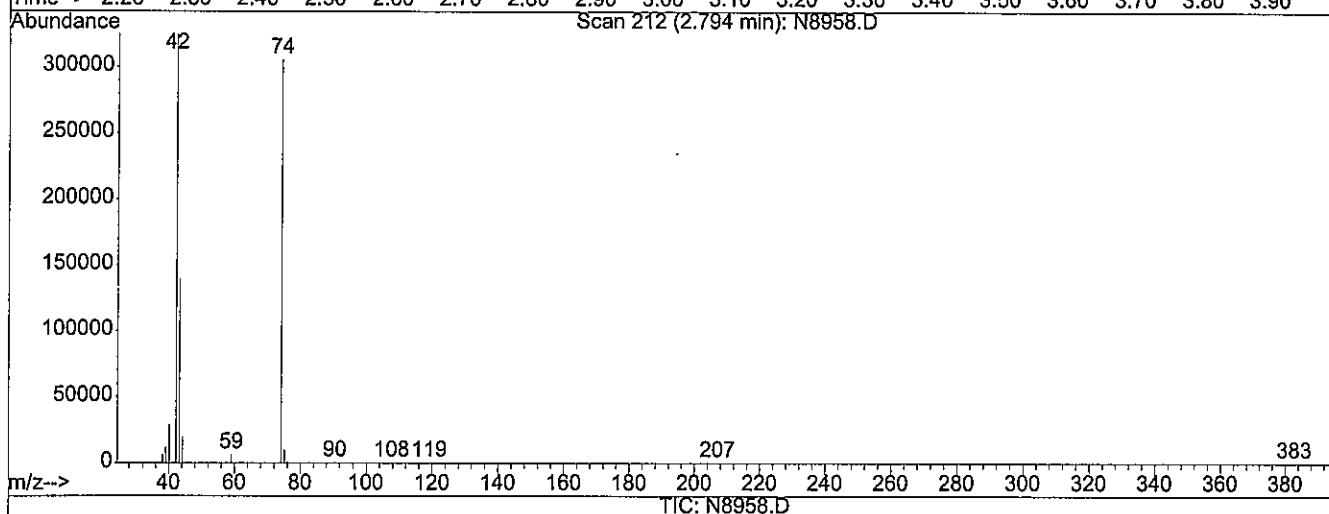
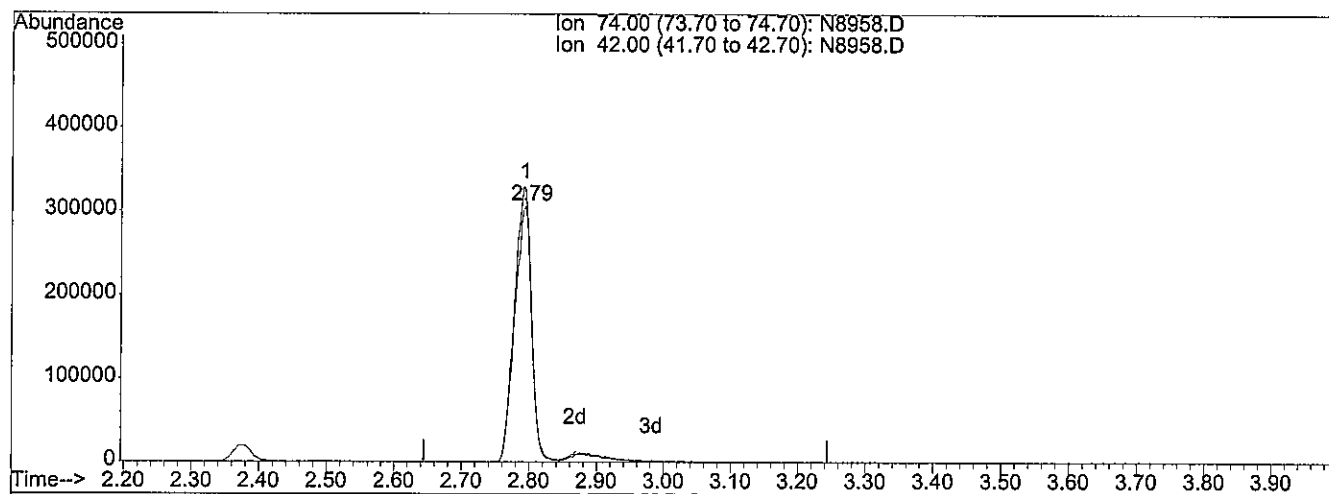
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:29:24 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 65.84ng/uL m

response 584381

Ion	Exp%	Act%
74.00	100	100
42.00	108.50	98.88
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-23-13

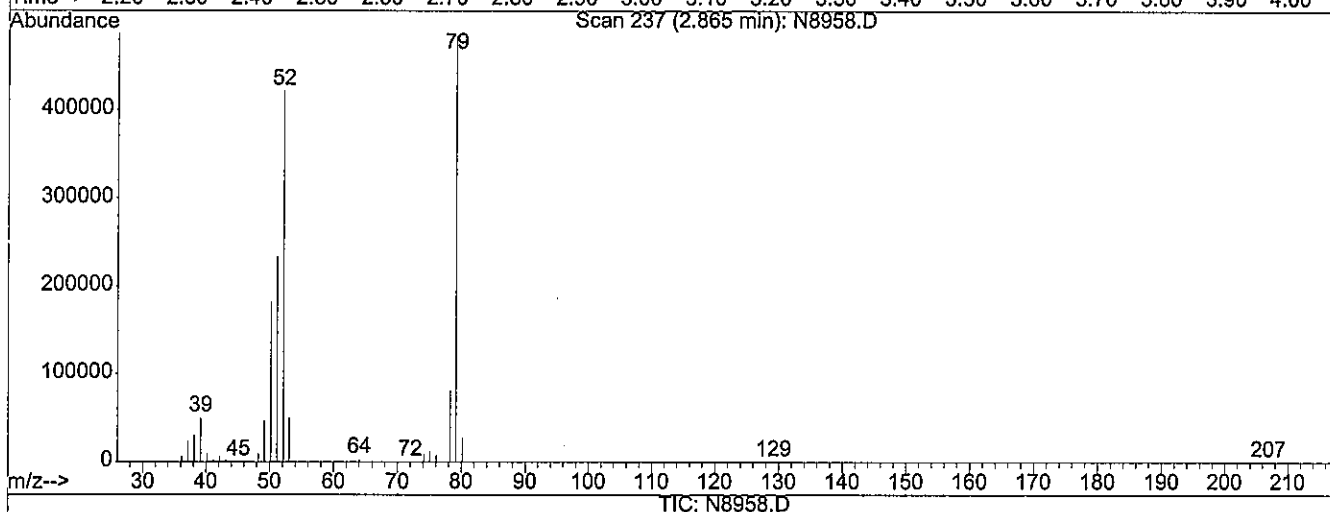
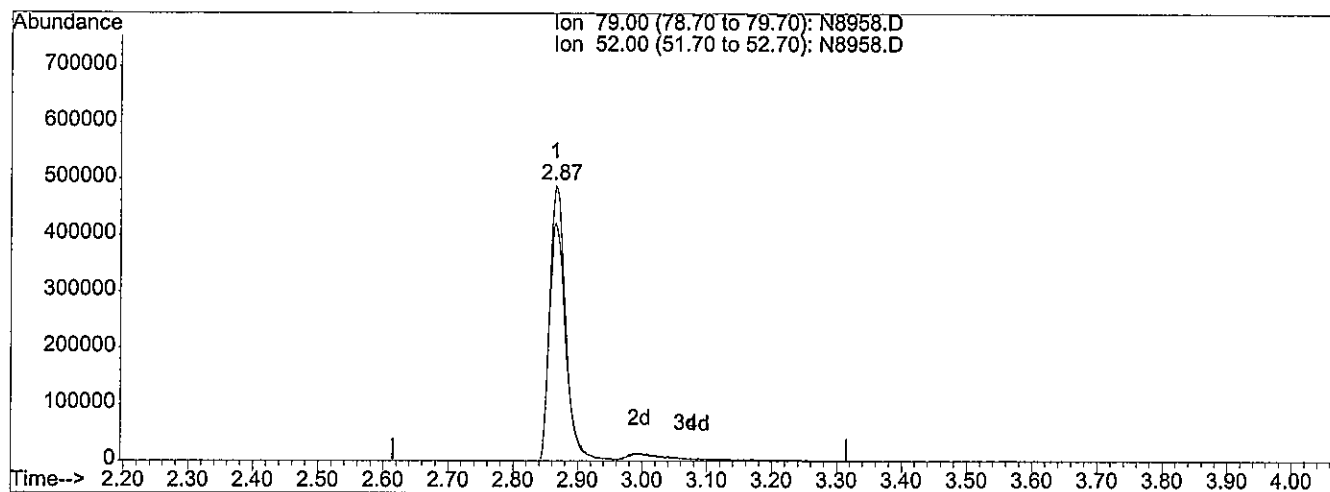
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:29 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 60.00ng/uL

response 851247

Ion	Exp%	Act%
79.00	100	100
52.00	87.90	87.89
0.00	0.00	0.00
0.00	0.00	0.00

John

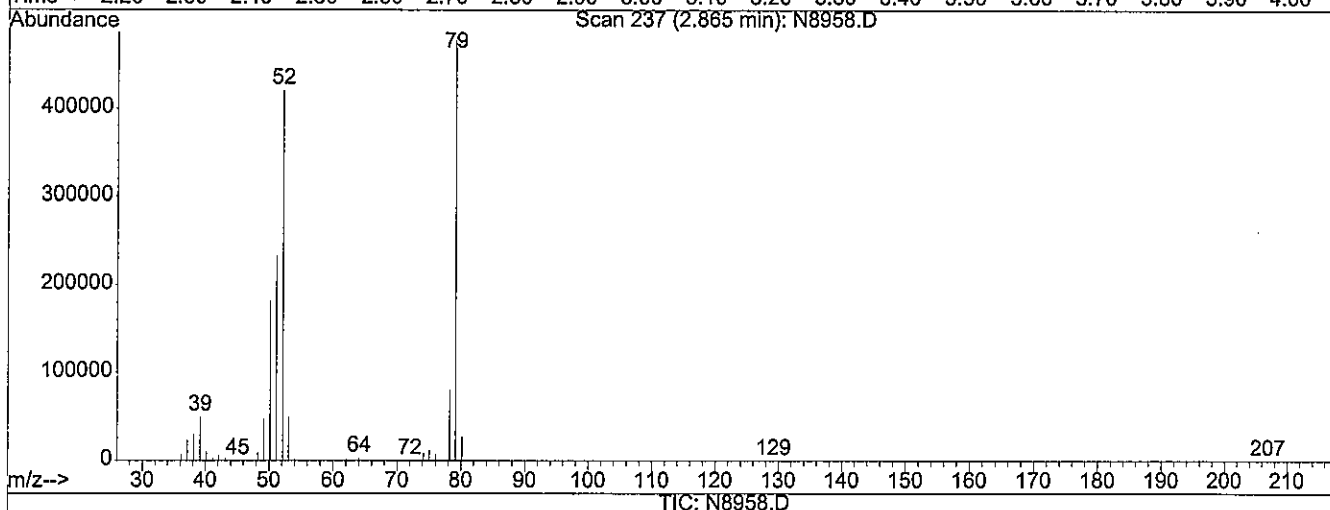
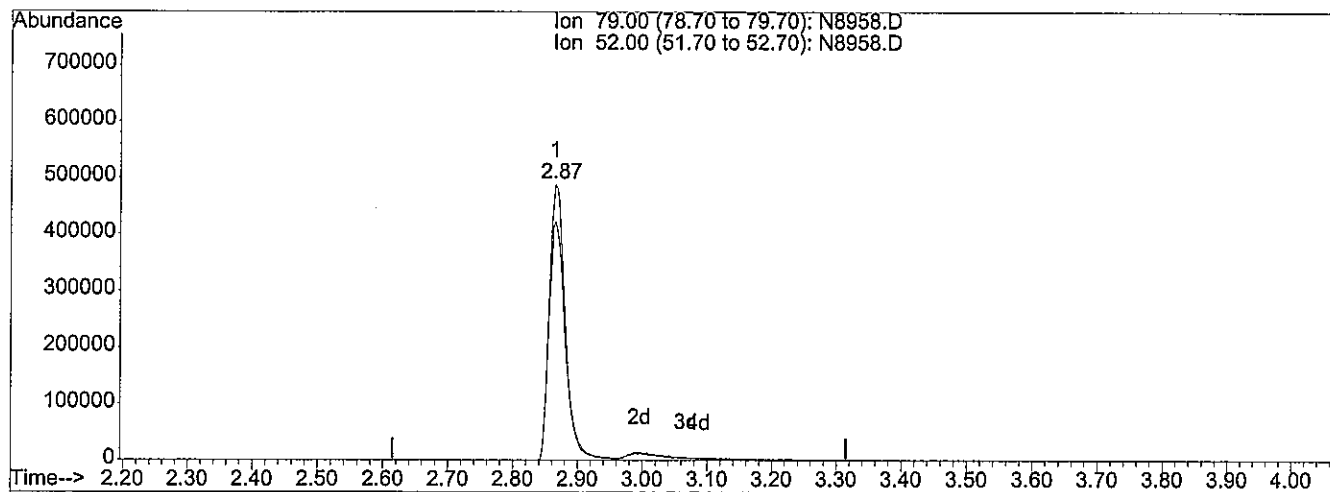
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:30 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 66.11ng/uL m

response 937978

Ion	Exp%	Act%
79.00	100	100
52.00	87.90	79.76
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-24-13

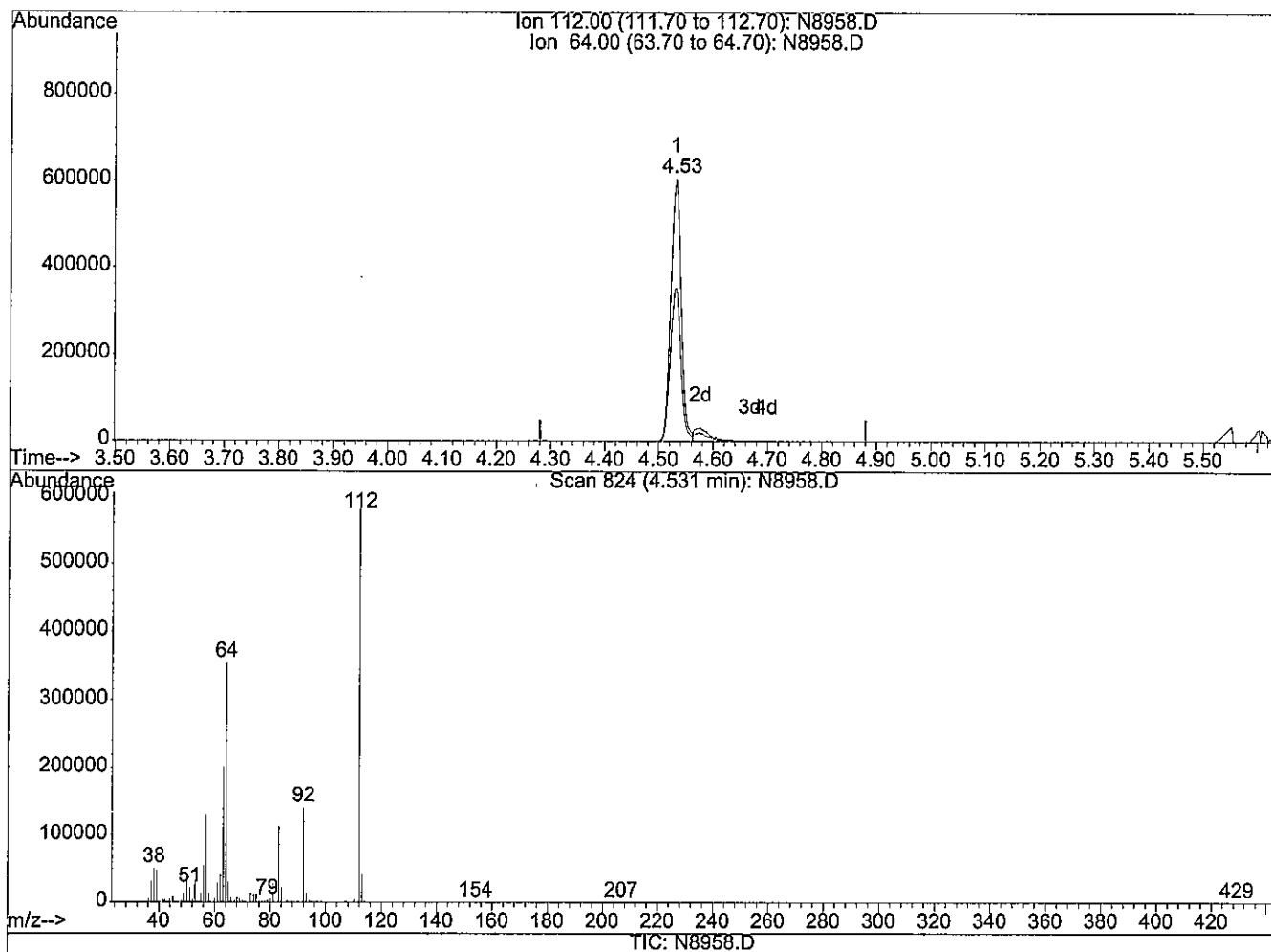
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:30 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(5) 2-Fluorophenol (S)

4.53min 60.00ng/uL

response 800325

Ion	Exp%	Act%
112.00	100	100
64.00	59.60	59.62
0.00	0.00	0.00
0.00	0.00	0.00

3cf

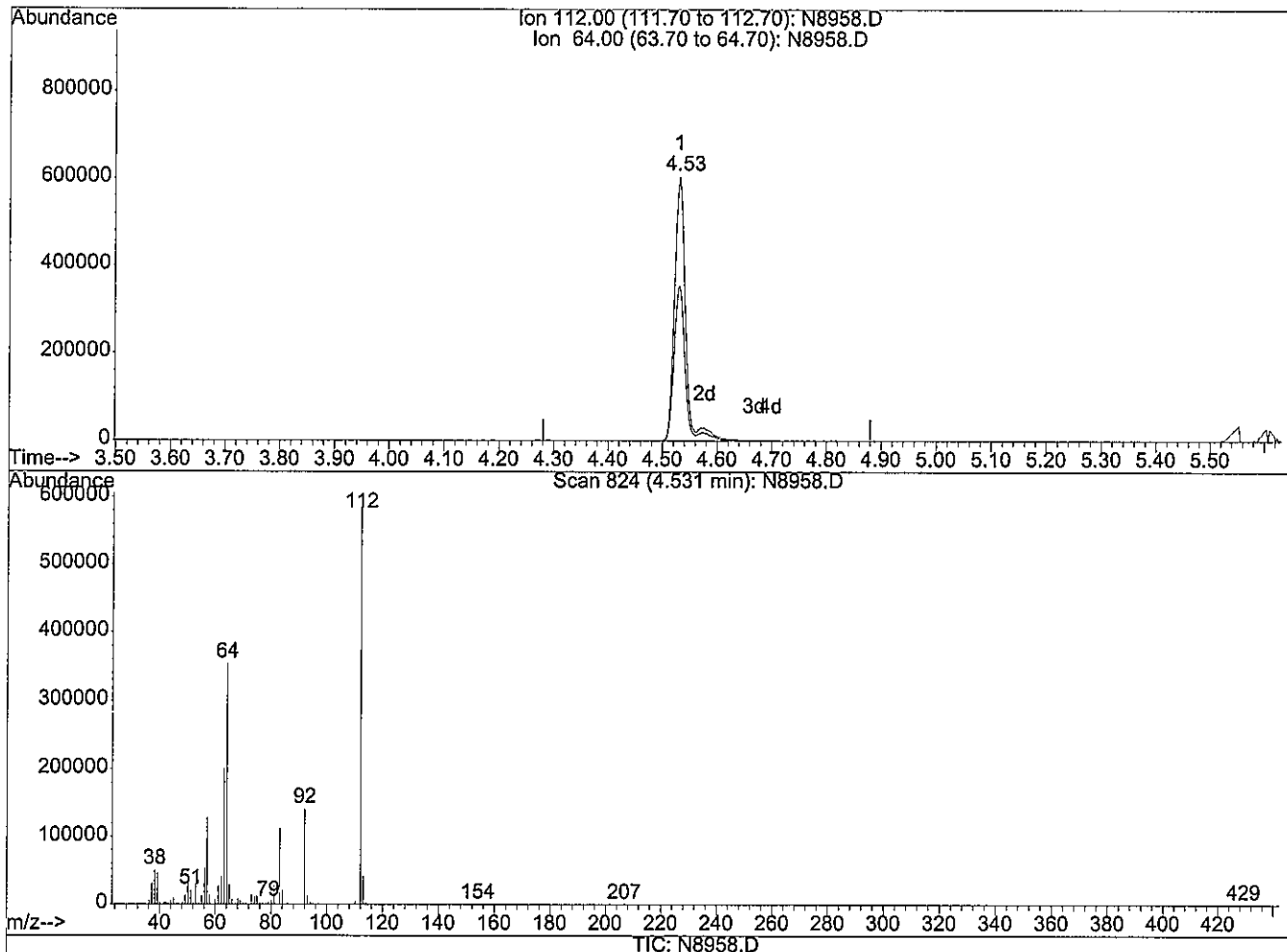
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:30 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(5) 2-Fluorophenol (S)

4.53min 64.99ng/uL m

response 866894

Ion	Exp%	Act%
112.00	100	100
64.00	59.60	55.04
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

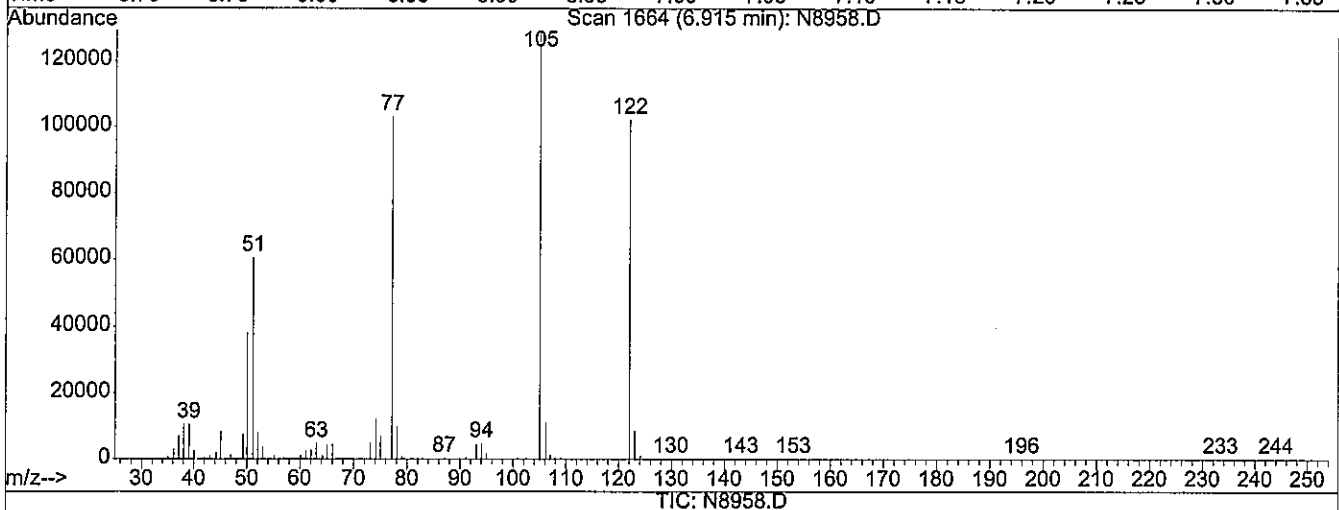
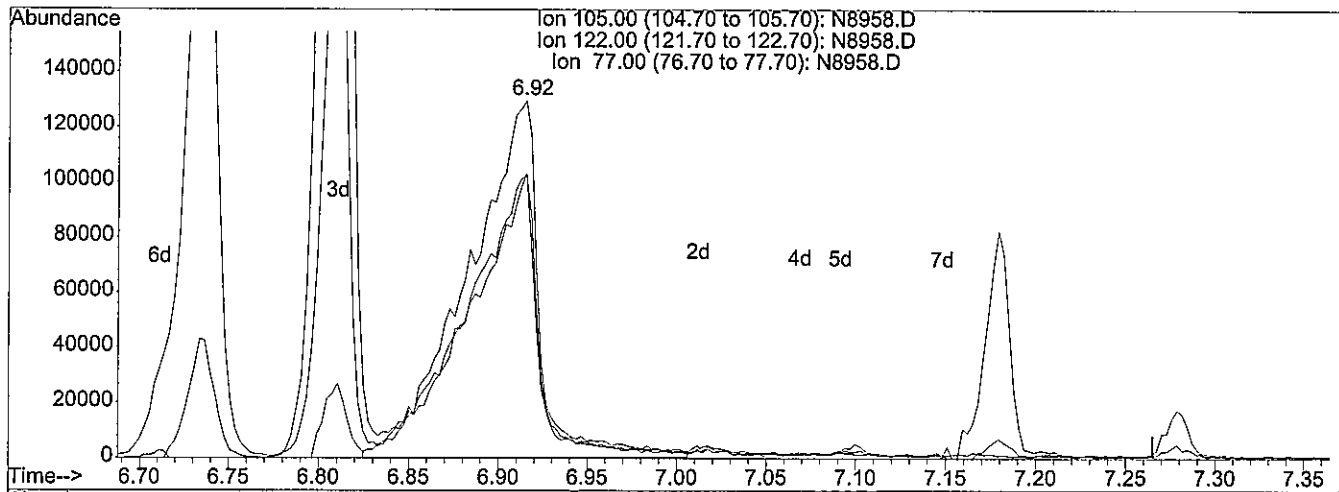
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:30 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.92min 60.00ng/uL

response 357429

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	78.11
77.00	74.70	74.70
0.00	0.00	0.00

2.60

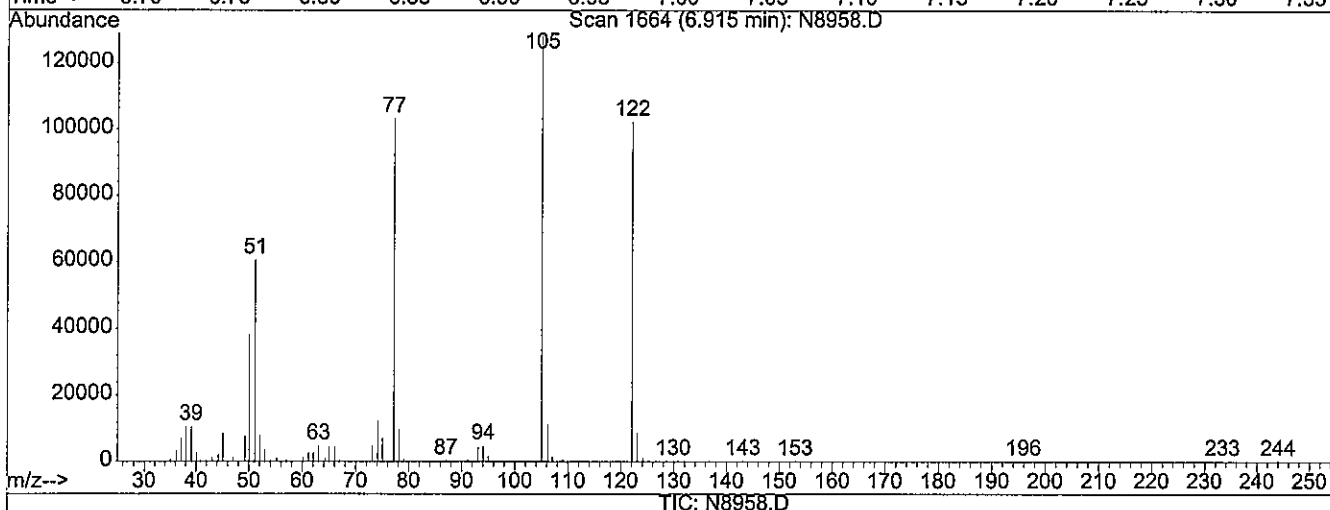
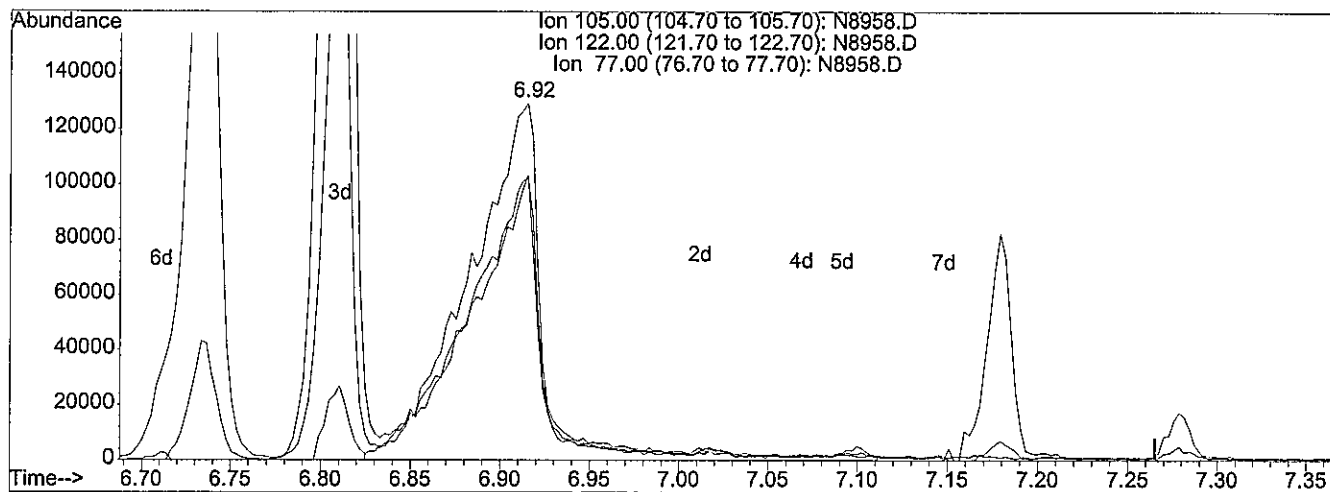
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:30 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.92min 62.82ng/uL m

response 374236

Ion	Exp%	Act%
105.00	100	100
122.00	78.10	74.60
77.00	74.70	71.35
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ja date 12-26-13

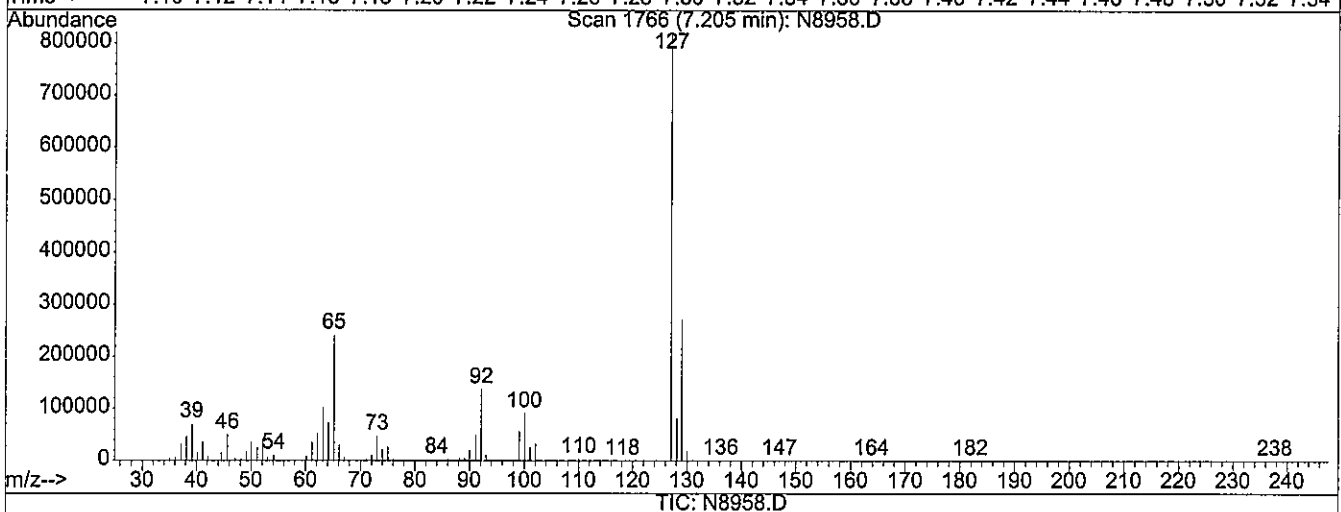
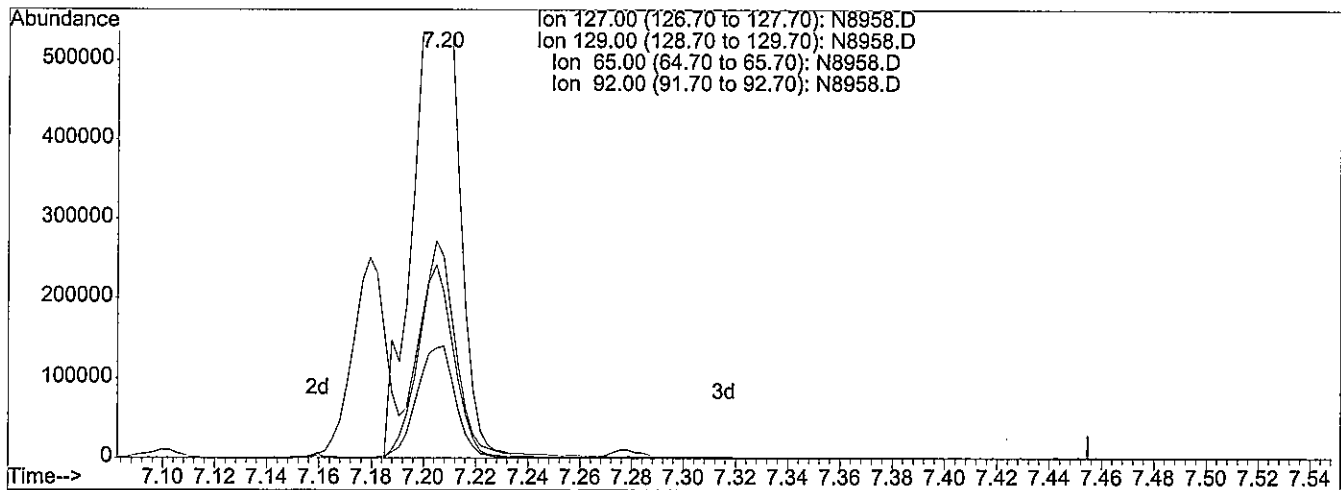
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:30 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.20min 60.00ng/uL

response 834762

Ion	Exp%	Act%
127.00	100	100
129.00	31.50	31.48
65.00	28.00	28.00
92.00	17.60	17.60

John

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D

Vial: 2

Acq On : 23 Dec 2013 12:07

Operator: jk SOP 50

Sample : ICALSVSTD060

Inst : GC/MS Ins

Misc : ST131216-1 60 PPM

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:30 2013

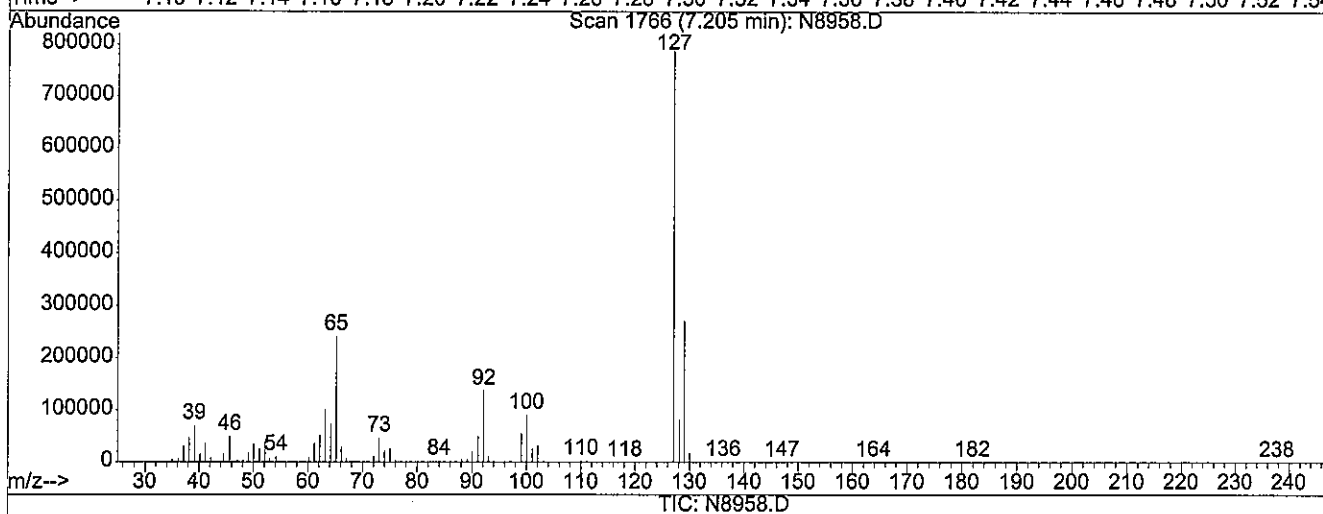
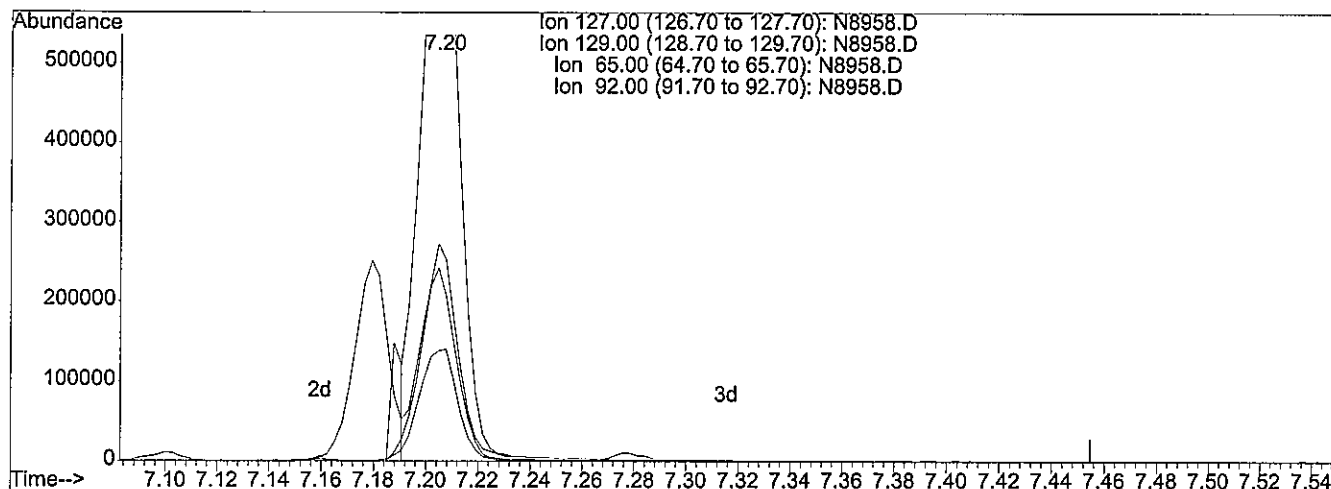
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:29:24 2013

Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.20min 56.94ng/uL m

response 792180

Ion	Exp%	Act%
127.00	100	100
129.00	31.50	33.17
65.00	28.00	29.51
92.00	17.60	18.55

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ju date 12-23-13

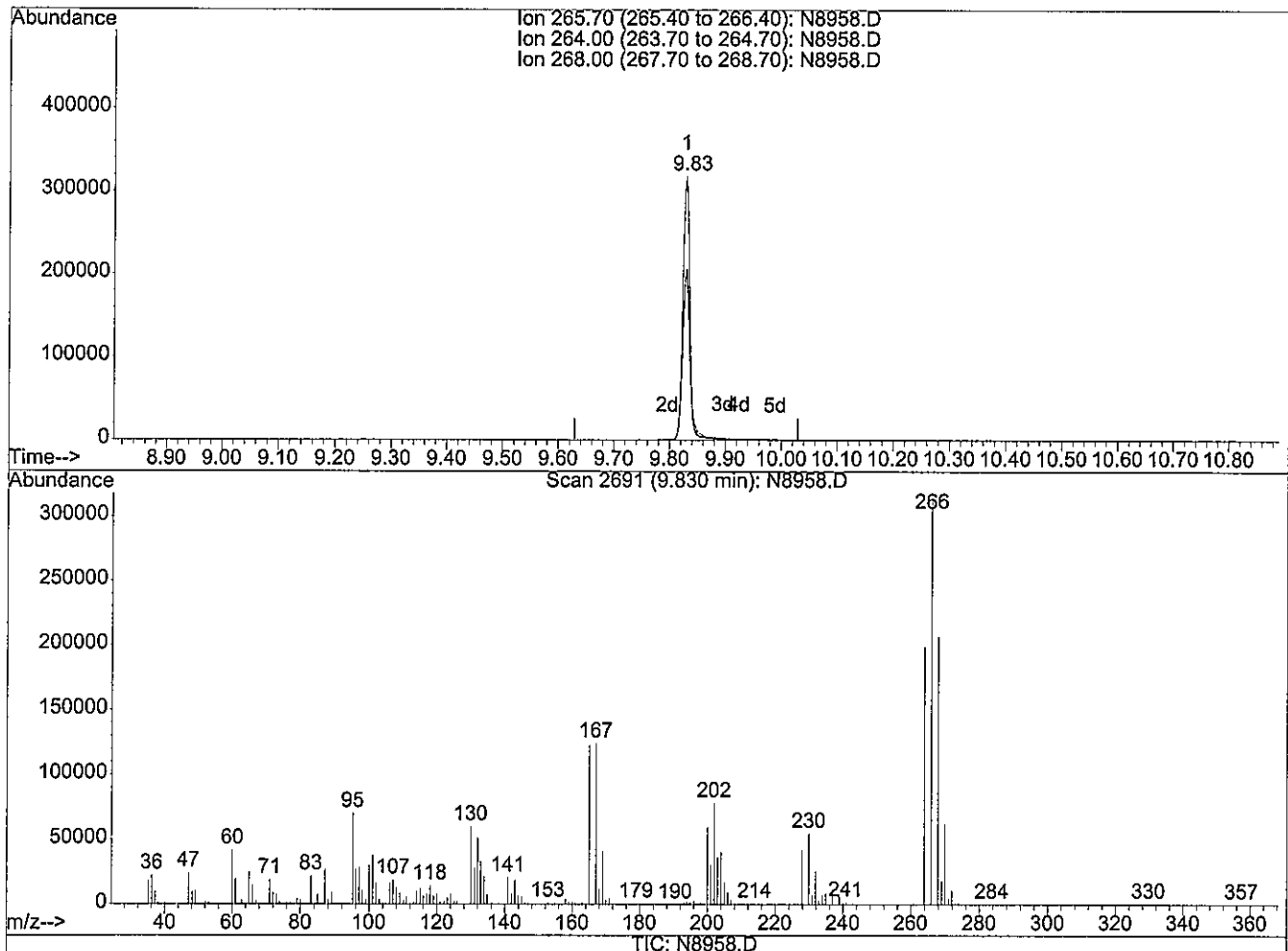
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
 Acq On : 23 Dec 2013 12:07
 Sample : ICALSVSTD060
 Misc : ST131216-1 60 PPM
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:30 2013

Vial: 2
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:29:24 2013
 Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 60.00ng/uL

response 289502

Ion	Exp%	Act%
265.70	100	100
264.00	64.90	64.93
268.00	65.70	65.68
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-11

Sefer

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8958.D

Vial: 2

Acq On : 23 Dec 2013 12:07

Operator: jk SOP 50

Sample : ICALSVSTD060

Inst : GC/MS Ins

Misc : ST131216-1 60 PPM

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:31 2013

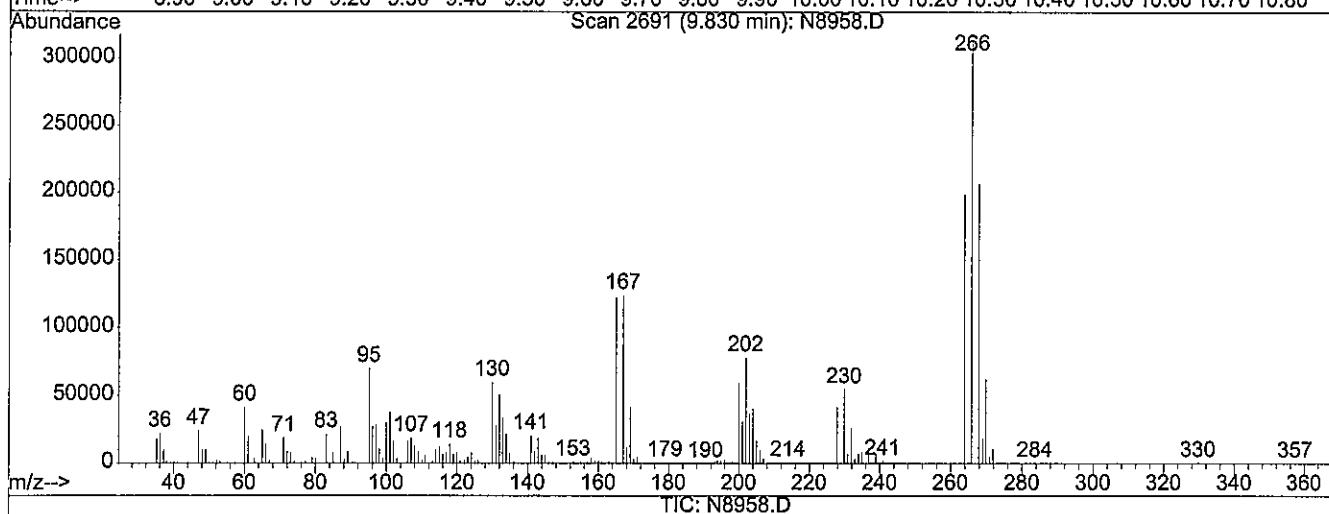
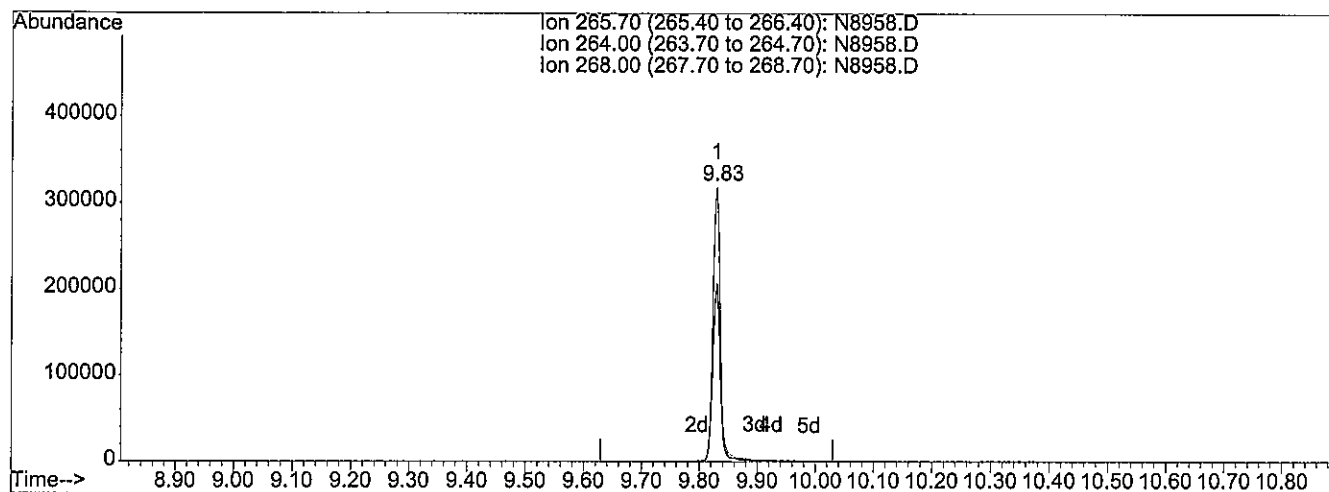
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:29:24 2013

Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 62.16ng/uL.m

response 299908

Ion	Exp%	Act%
265.70	100	100
264.00	64.90	62.68
268.00	65.70	63.40
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jd date 12-26-13

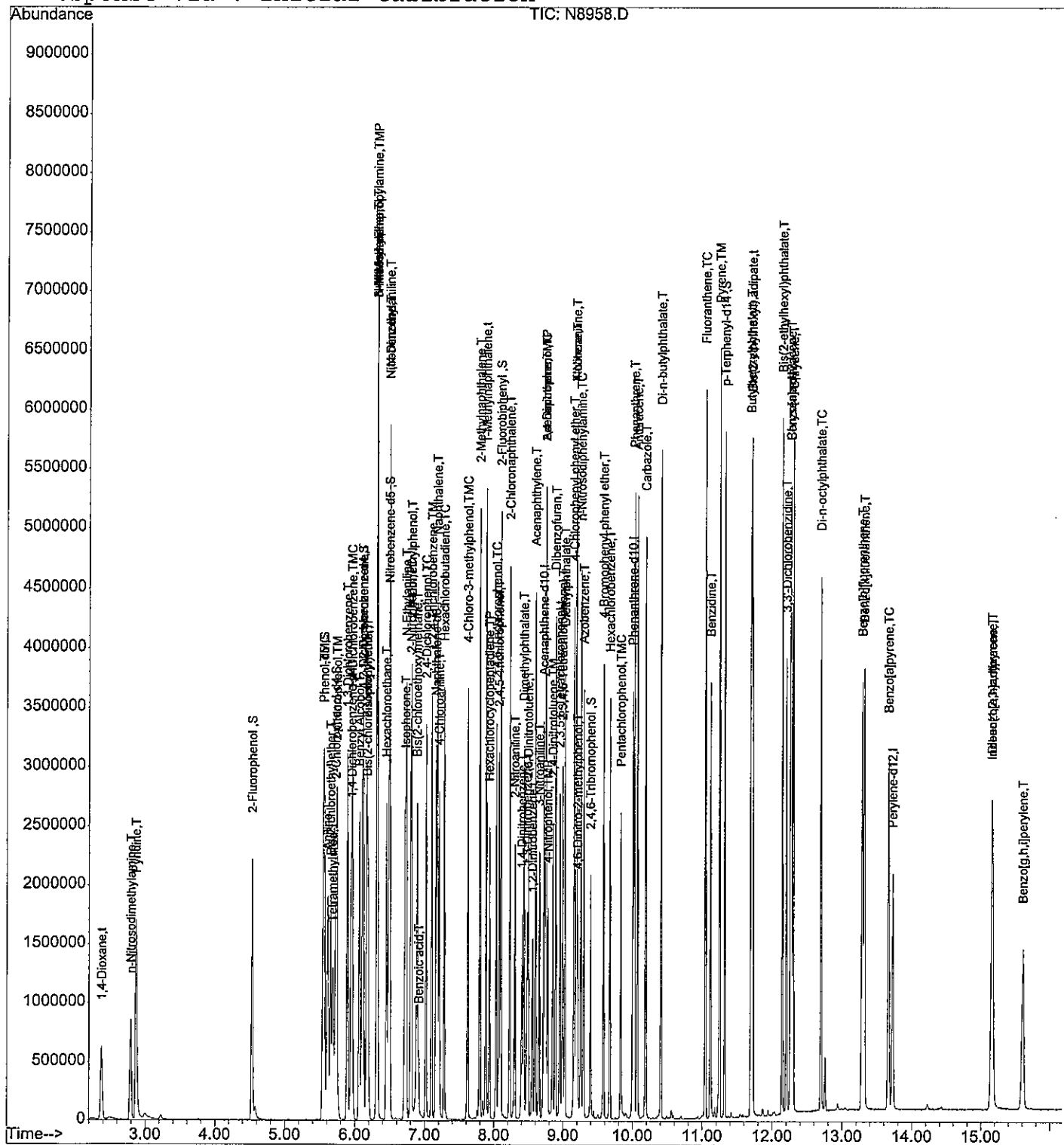
Quantitation Report

Data File : D:\HPCHEM\1\DATA\122313\N8958.D
Acq On : 23 Dec 2013 12:07
Sample : ICALSVSTD060
Misc : ST131216-1 60 PPM
MS Integration Params: RTEINT.P
Quant Time: Dec 23 12:31 2013

Vial: 2
Operator: jk SOP 506
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 122313S1.RES

```
Method       : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
Title        : GC-MS Semivolatiles      SOP no. 506
Last Update  : Mon Dec 23 12:29:24 2013
Response via : Initial Calibration
```



Data File : D:\HPCHEM\1\DATA\122313\N8959.D

Vial: 3

Acq On : 23 Dec 2013 12:31

Operator: jk SOP 506 Rev

Sample : ICALSVSTD001

Inst : GC/MS Ins

Misc : ST130926-5

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:49 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:48:35 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	466350	40.00	ng/uL	0.00
24) Naphthalene-d8	7.15	136	1722191	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	855132	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1314401	40.00	ng/uL	0.00
80) Chrysene-d12	12.27	240	1197913	40.00	ng/uL	0.00
91) Perylene-d12	13.73	264	912205	40.00	ng/uL	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	16285	0.98	ng/uL	0.00
Spiked Amount 75.000	Range	46 - 105	Recovery	=	1.31%#	
6) 2-Chlorophenol-d4	5.72	132	19463	1.35	ng/uL	0.00
Spiked Amount 75.000	Range	33 - 110	Recovery	=	1.80%#	
8) Phenol-d5	5.53	99	21540	1.08	ng/uL	-0.01
Spiked Amount 75.000	Range	50 - 109	Recovery	=	1.44%#	
15) 1,2-Dichlorobenzene-d4	6.10	152	34729	3.44	ng/uL	0.00
Spiked Amount 50.000	Range	16 - 110	Recovery	=	6.88%#	
25) Nitrobenzene-d5	6.47	82	18496	1.26	ng/uL	-0.01
Spiked Amount 50.000	Range	53 - 111	Recovery	=	2.52%#	
46) 2-Fluorobiphenyl	8.09	172	39403	1.38	ng/uL	0.00
Spiked Amount 50.000	Range	55 - 108	Recovery	=	2.76%#	
68) 2,4,6-Tribromophenol	9.39	330	2921	0.80	ng/uL	0.00
Spiked Amount 75.000	Range	42 - 117	Recovery	=	1.07%#	
83) p-Terphenyl-d14	11.32	244	36853	1.40	ng/uL	0.00
Spiked Amount 50.000	Range	34 - 139	Recovery	=	2.80%#	

Target Compounds

					Qvalue
2) 1,4-Dioxane	2.38	88	8122m	1.46	ng/uL
3) n-Nitrosodimethylamine	2.79	74	11784m	1.13	ng/uL
4) Pyridine	2.89	79	13028	0.73	ng/uL 94
7) Aniline	5.60	93	22436	1.08	ng/uL 95
9) Phenol	5.55	94	21048	1.15	ng/uL 90
10) Tetramethylurea	5.64	72	21262	0.91	ng/uL 96
11) Bis(2-chloroethyl) ether	5.64	93	17349	1.26	ng/uL 96
12) 2-Chlorophenol	5.73	128	18357	1.28	ng/uL 96
13) 1,3-Dichlorobenzene	5.89	146	19976	1.16	ng/uL 94
14) 1,4-Dichlorobenzene	5.96	146	19643	1.26	ng/uL# 81
16) 1,2-Dichlorobenzene	6.11	146	17575	1.23	ng/uL 93
17) Benzyl Alcohol	6.06	108	8682	0.89	ng/uL 91
18) 2-Methylphenol	6.16	107	14320	1.22	ng/uL 91
19) Bis(2-chloroisopropyl) ethe	6.18	45	26914	1.30	ng/uL# 74
20) n-Nitroso-di-n-propylamine	6.30	70	11812	1.24	ng/uL 96
21) 3+4-Methylphenol	6.30	108	17519	1.22	ng/uL 88

(#)=qualifier out of range (m)=manual integration

N8959.D 122313S1.M Mon Dec 23 12:49:22 2013

N
(2-26)

Data File : D:\HPCHEM\1\DATA\122313\N8959.D

Vial: 3

Acq On : 23 Dec 2013 12:31

Operator: jk SOP 506 Rev

Sample : ICALSVSTD001

Inst : GC/MS Ins

Misc : ST130926-5

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:49 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:48:35 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.31	106	20104	0.95	ng/uL	87
23) Hexachloroethane	6.45	117	7711	1.16	ng/uL	96
26) N,N-Dimethylaniline	6.49	120	20742	0.97	ng/uL#	82
27) Nitrobenzene	6.49	77	22073	1.23	ng/uL#	46
28) Isophorone	6.71	82	28272	1.06	ng/uL	100
29) N-Ethylaniline	6.73	106	25213	0.98	ng/uL	95
30) 2-Nitrophenol	6.79	139	7189	0.95	ng/uL	99
31) 2,4-Dimethylphenol	6.80	107	16697	1.23	ng/uL	93
32) Bis(2-chloroethoxy)methane	6.88	93	17658	1.10	ng/uL	97
33) Benzoic acid	6.86	105	2262	0.31	ng/uL#	76
34) 2,4-Dichlorophenol	7.01	162	12765	1.02	ng/uL	95
35) 1,2,4-Trichlorobenzene	7.09	180	16484	1.18	ng/uL	98
36) Naphthalene	7.18	128	45655	1.12	ng/uL#	99
37) 4-Chloroaniline	7.20	127	15666	1.01	ng/uL	96
38) Hexachlorobutadiene	7.28	225	9826	1.18	ng/uL	98
39) 4-Chloro-3-methylphenol	7.62	107	11601	0.88	ng/uL	97
40) 2-Methylnaphthalene	7.79	142	31573	1.12	ng/uL	96
42) 1-Methylnaphthalene	7.88	142	31629	1.22	ng/uL	97
43) Hexachlorocyclopentadiene	7.93	237	5486	0.78	ng/uL#	91
44) 2,4,6-Trichlorophenol	8.03	196	8461	0.96	ng/uL	94
45) 2,4,5-Trichlorophenol	8.07	196	8360	1.00	ng/uL	97
47) 2-Chloronaphthalene	8.22	162	28165	1.13	ng/uL	97
48) 2-Nitroaniline	8.29	65	5747	0.83	ng/uL	95
49) 1,4-Dinitrobenzene	8.39	168	2045	0.50	ng/uL	89
50) Dimethylphthalate	8.42	163	28881	1.14	ng/uL	99
51) 1,3-Dinitrobenzene	8.47	168	2882	0.62	ng/uL#	89
52) 2,6-Dinitrotoluene	8.49	165	5533	0.96	ng/uL	84
53) 1,2-Dinitrobenzene	8.54	168	2499	0.81	ng/uL#	81
54) Acenaphthylene	8.59	152	42155	1.13	ng/uL	95
55) 3-Nitroaniline	8.65	138	4176	0.69	ng/uL#	78
56) Acenaphthene	8.74	154	24485	1.10	ng/uL	91
57) 2,4-Dinitrophenol	0.00	184	0	N.D.		
58) 4-Nitrophenol	8.77	109	1085	0.35	ng/uL#	74
59) Dibenzofuran	8.89	168	40085	1.24	ng/uL	93
60) 2,4-Dinitrotoluene	8.84	165	4715	0.58	ng/uL	86
61) 2,3,5,6-Tetrachlorophenol	8.95	232	4604	0.66	ng/uL#	94
62) 2,3,4,6-Tetrachlorophenol	8.98	232	5360	0.79	ng/uL	91
63) Diethylphthalate	9.02	149	25727	1.03	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.15	204	16377	1.17	ng/uL	93
65) 4-Nitroaniline	9.17	138	3489	0.64	ng/uL#	85
66) Fluorene	9.18	166	29285	1.23	ng/uL	96

(#)= qualifier out of range (m) = manual integration

N8959.D 122313S1.M Mon Dec 23 12:49:22 2013

Page 2

61 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8959.D

Vial: 3

Acq On : 23 Dec 2013 12:31

Operator: jk SOP 506 Rev

Sample : ICALSVSTD001

Inst : GC/MS Ins

Misc : ST130926-5

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:49 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:48:35 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.29	77	25142	1.10	ng/uL	96
70) 4,6-Dinitro-2-methylphenol	9.20	198	1664	0.50	ng/uL#	73
71) n-Nitrosodiphenylamine	9.25	169	23031	1.31	ng/uL	98
72) 4-Bromophenyl phenyl ether	9.58	248	9199	1.33	ng/uL	99
73) Hexachlorobenzene	9.67	284	8976	1.33	ng/uL	98
74) Pentachlorophenol	9.83	266	2114	0.46	ng/uL	87
75) Phenanthrene	10.02	178	36031	1.20	ng/uL	98
76) Anthracene	10.06	178	34486	1.13	ng/uL	99
77) Carbazole	10.18	167	29812	0.99	ng/uL	99
78) Di-n-butylphthalate	10.40	149	42312	1.10	ng/uL#	98
79) Fluoranthene	11.04	202	48278	1.19	ng/uL	99
81) Benzidine	11.11	184	21302	0.96	ng/uL	97
82) Pyrene	11.24	202	46934	1.20	ng/uL	97
84) Butylbenzylphthalate	11.69	149	16080	0.99	ng/uL	94
85) Bis(2-ethylhexyl) adipate	11.70	129	12173	1.02	ng/uL#	90
86) Bis(2-ethylhexyl)phthalate	12.14	149	20391	0.96	ng/uL	98
87) 3,3'-Dichlorobenzidine	12.20	252	13316	1.09	ng/uL	93
88) Benzo[a]anthracene	12.26	228	39630	1.16	ng/uL	95
89) Chrysene	12.29	228	32560	1.07	ng/uL	97
90) Di-n-octylphthalate	12.70	149	25479	0.79	ng/uL#	95
92) Benzo[b]fluoranthene	13.28	252	30144	0.98	ng/uL	97
93) Benzo[k]fluoranthene	13.31	252	28263	1.02	ng/uL	93
94) Benzo[a]pyrene	13.66	252	25684	0.98	ng/uL#	91
95) Indeno(1,2,3-c,d)pyrene	15.16	276	21503	1.04	ng/uL#	84
96) Dibenzo[a,h]anthracene	15.15	278	17374	0.94	ng/uL#	65
97) Benzo[g,h,i]perylene	15.60	276	18964	1.09	ng/uL#	73

(#) = qualifier out of range (m) = manual integration

N8959.D 122313S1.M Mon Dec 23 12:49:22 2013

Page 3

62 of 211

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8959.D

Vial: 3

Acq On : 23 Dec 2013 12:31

Operator: jk SOP 50

Sample : ICALSVSTD001

Inst : GC/MS Ins

Misc : ST130926-5

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:48 2013

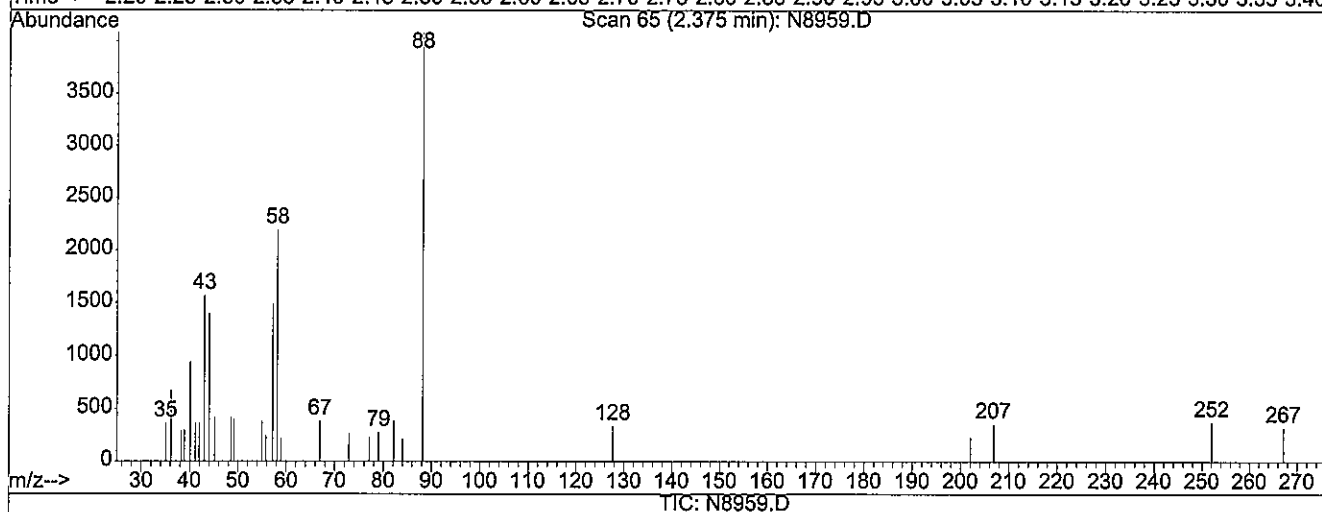
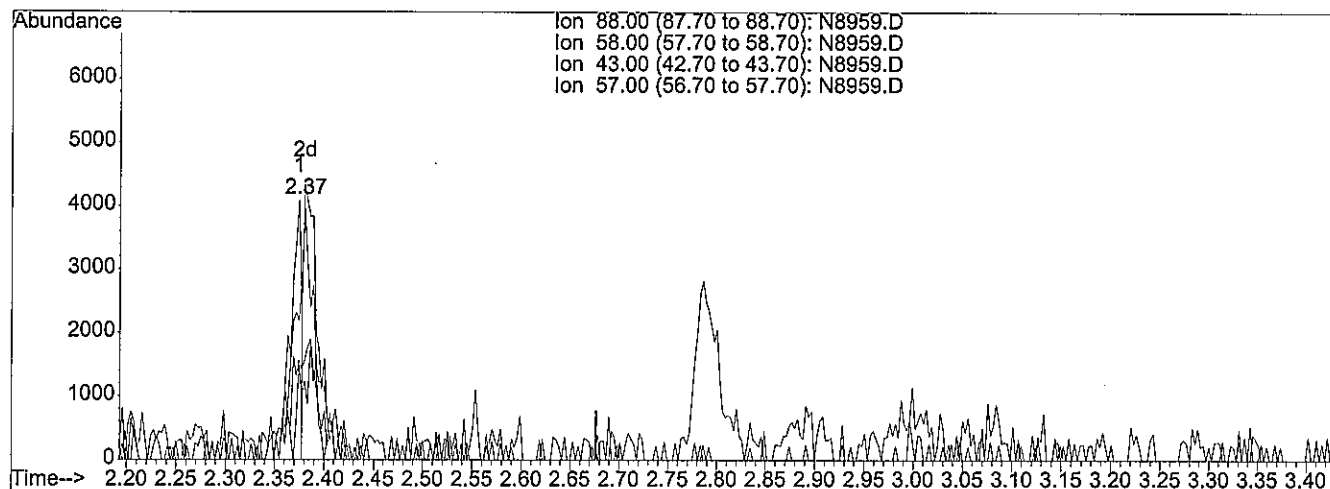
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:48:35 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.37min 0.57ng/uL

response 3192

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	0.00#
43.00	35.60	0.00#
57.00	27.90	27.57

John

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8959.D

Vial: 3

Acq On : 23 Dec 2013 12:31

Operator: jk SOP 50

Sample : ICALSVSTD001

Inst : GC/MS Ins

Misc : ST130926-5

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:49 2013

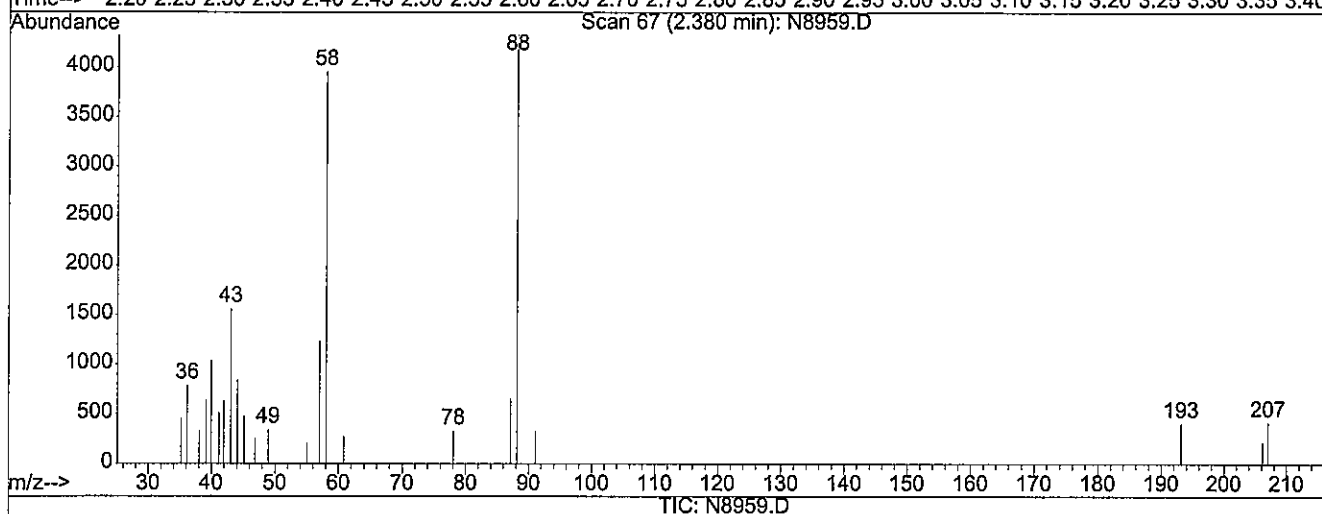
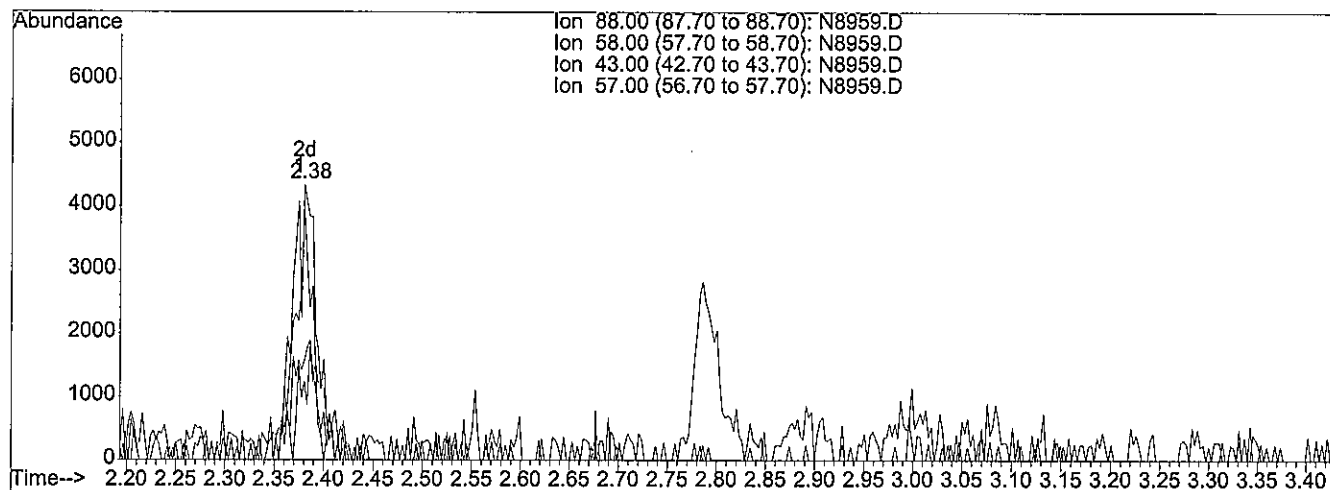
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:48:35 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 1.46ng/uL m

response 8122

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	0.00#
43.00	35.60	0.00#
57.00	27.90	10.83#

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12/26/13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8959.D

Vial: 3

Acq On : 23 Dec 2013 12:31

Operator: jk SOP 50

Sample : ICALSVSTD001

Inst : GC/MS Ins

Misc : ST130926-5

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:49 2013

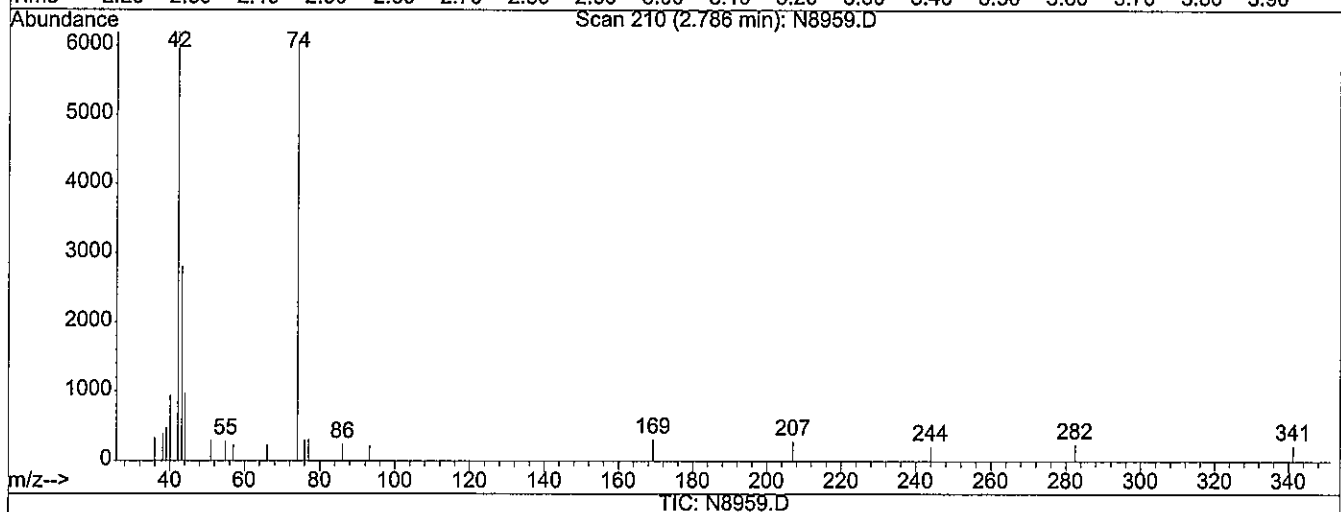
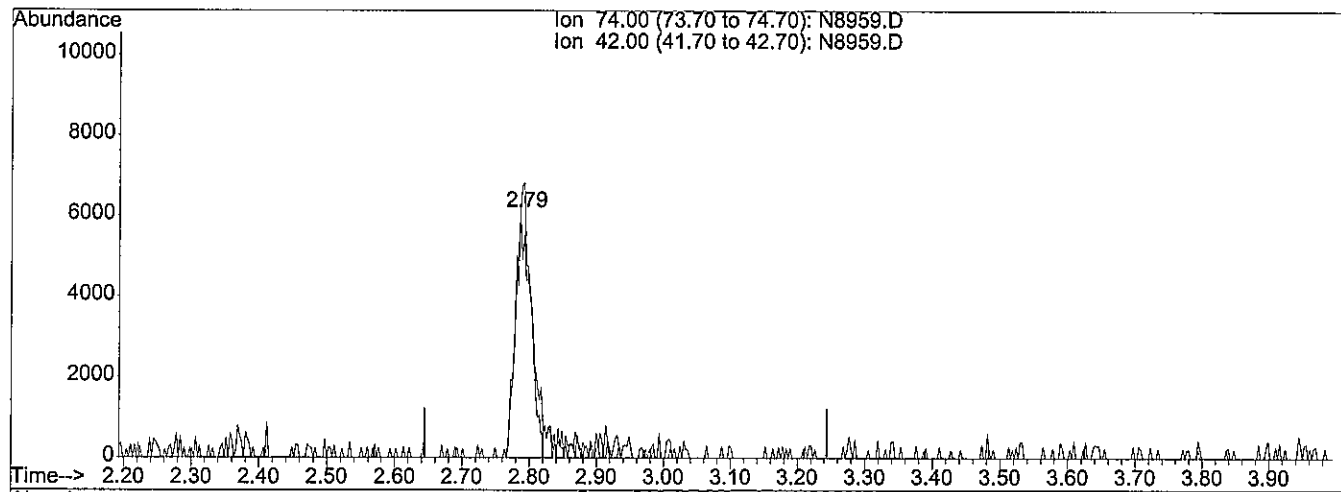
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:48:35 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 0.93ng/uL

response 9734

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	113.49
0.00	0.00	0.00
0.00	0.00	0.00

John

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8959.D

Vial: 3

Acq On : 23 Dec 2013 12:31

Operator: jk SOP 50

Sample : ICALSVSTD001

Inst : GC/MS Ins

Misc : ST130926-5

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 12:49 2013

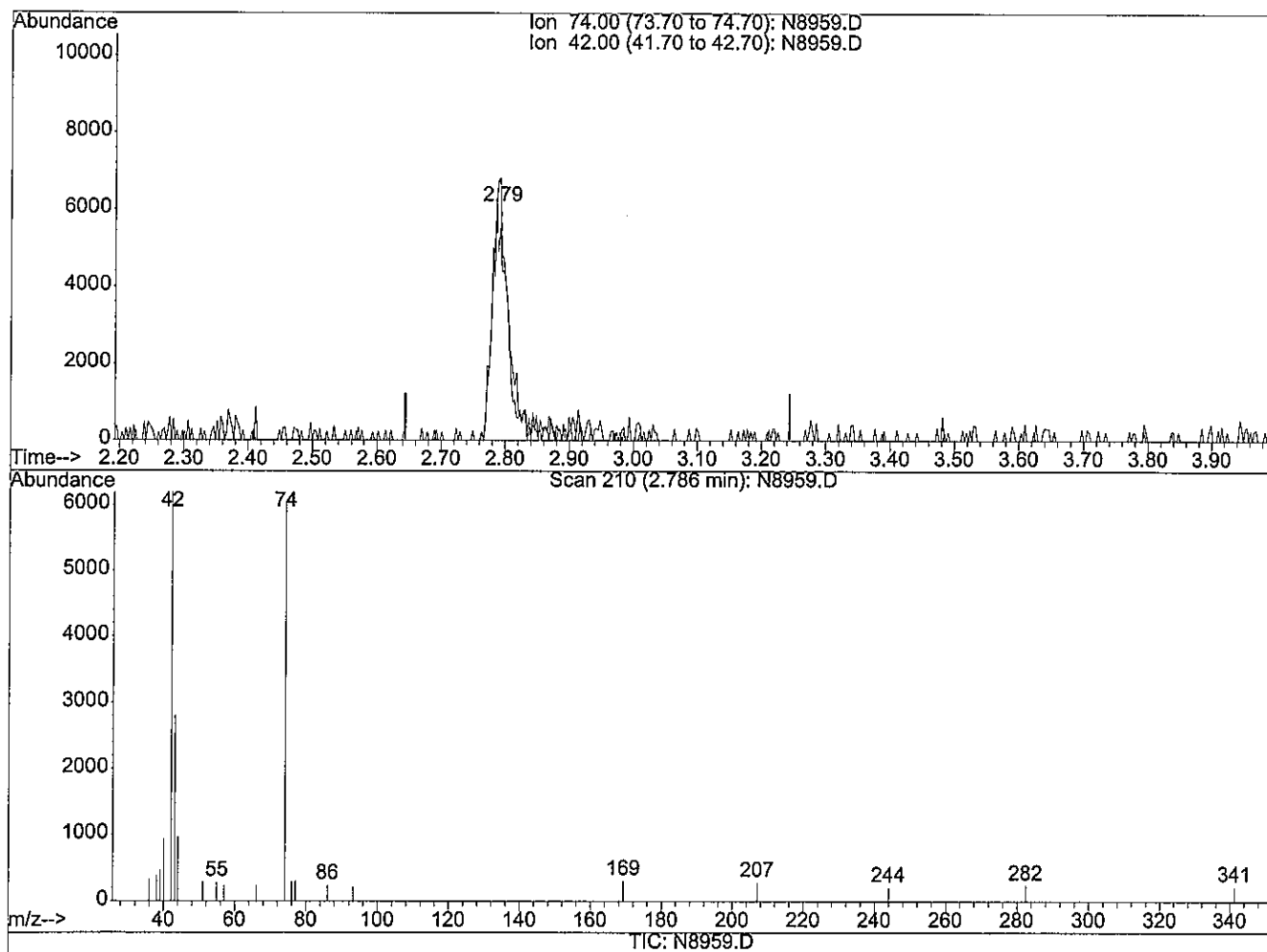
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 12:48:35 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 1.13ng/uL m

response 11784

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	93.75
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JL date 12-24

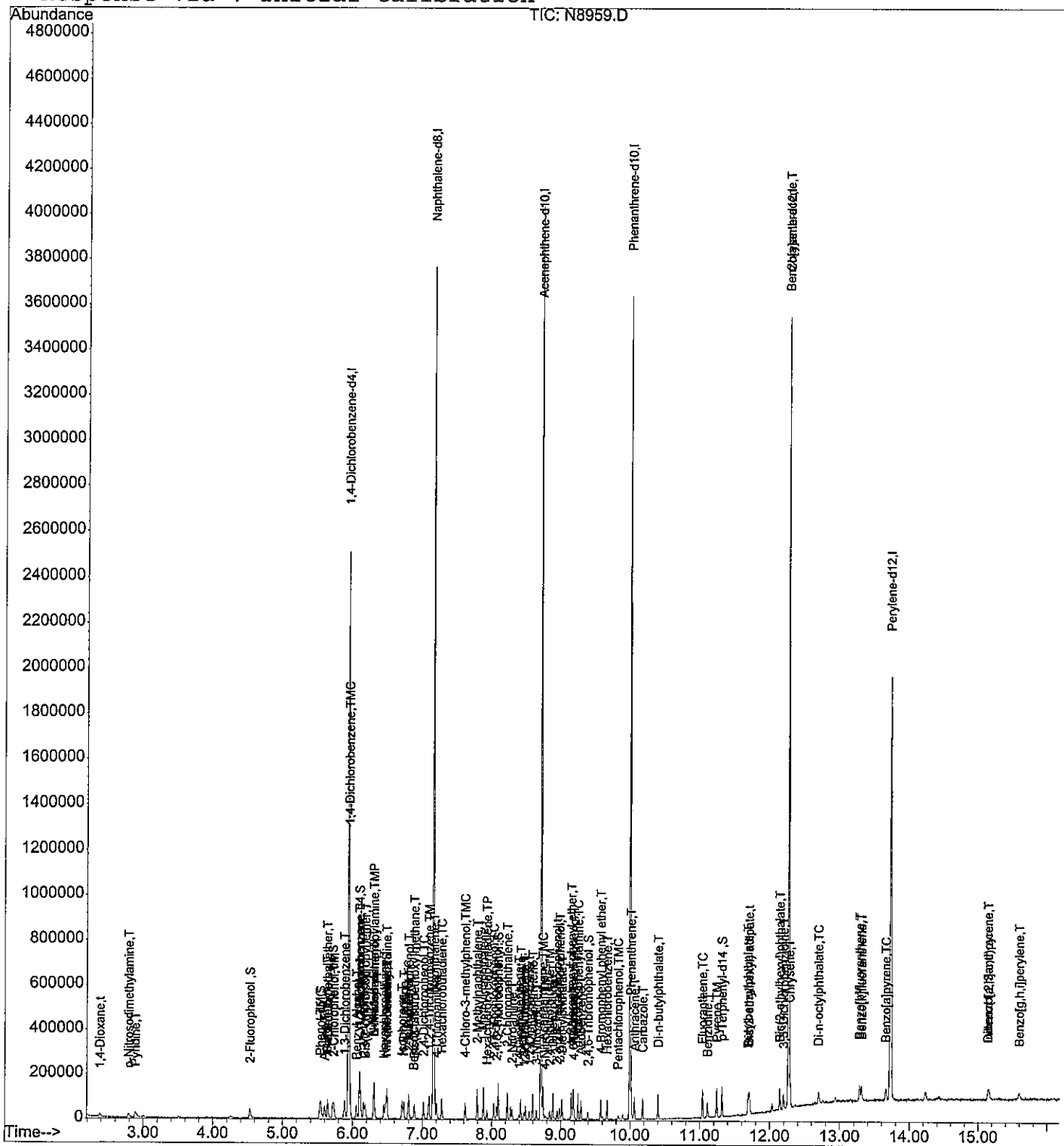
Quantitation Report

Data File : D:\HPCHEM\1\DATA\122313\N8959.D
 Acq On : 23 Dec 2013 12:31
 Sample : ICALSVSTD001
 Misc : ST130926-5
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 12:49 2013

Vial: 3
 Operator: jk SOP 506
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: 122313S1.RES

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 12:48:35 2013
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\122313\N8960.D

Vial: 4

Acq On : 23 Dec 2013 12:56

Operator: jk SOP 506 Rev

Sample : ICALSVSTD005

Inst : GC/MS Ins

Misc : ST130926-6

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:22 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:22:14 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	443411	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1609636	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.71	164	809940	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1344429	40.00	ng/uL	0.00
80) Chrysene-d12	12.27	240	1310559	40.00	ng/uL	0.00
91) Perylene-d12	13.73	264	1032201	40.00	ng/uL	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	71186m	4.85	ng/uL	0.00
Spiked Amount 75.000	Range	46 - 105	Recovery	=	6.47%#	
6) 2-Chlorophenol-d4	5.71	132	71170	5.10	ng/uL	0.00
Spiked Amount 75.000	Range	33 - 110	Recovery	=	6.80%#	
8) Phenol-d5	5.53	99	83718	4.69	ng/uL	-0.01
Spiked Amount 75.000	Range	50 - 109	Recovery	=	6.25%#	
15) 1,2-Dichlorobenzene-d4	6.10	152	67127	5.83	ng/uL	0.00
Spiked Amount 50.000	Range	16 - 110	Recovery	=	11.66%#	
25) Nitrobenzene-d5	6.47	82	66213	4.92	ng/uL	0.00
Spiked Amount 50.000	Range	53 - 111	Recovery	=	9.84%#	
46) 2-Fluorobiphenyl	8.10	172	143565	5.16	ng/uL	0.00
Spiked Amount 50.000	Range	55 - 108	Recovery	=	10.32%#	
68) 2,4,6-Tribromophenol	9.39	330	12753	4.25	ng/uL	0.00
Spiked Amount 75.000	Range	42 - 117	Recovery	=	5.67%#	
83) p-Terphenyl-d14	11.32	244	146963	5.04	ng/uL	0.00
Spiked Amount 50.000	Range	34 - 139	Recovery	=	10.08%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.37	88	34599m	4.83	ng/uL	
3) n-Nitrosodimethylamine	2.78	74	47800m	4.73	ng/uL	
4) Pyridine	2.87	79	82052m	5.24	ng/uL	
7) Aniline	5.60	93	98595	4.99	ng/uL	99
9) Phenol	5.54	94	88261	5.04	ng/uL	96
10) Tetramethylurea	5.64	72	117215	5.14	ng/uL	99
11) Bis(2-chloroethyl) ether	5.64	93	71900	5.24	ng/uL	99
12) 2-Chlorophenol	5.73	128	75518	5.26	ng/uL	98
13) 1,3-Dichlorobenzene	5.89	146	84420	5.09	ng/uL	99
14) 1,4-Dichlorobenzene	5.96	146	76047	5.07	ng/uL	94
16) 1,2-Dichlorobenzene	6.11	146	73464	5.19	ng/uL	97
17) Benzyl Alcohol	6.05	108	42385	4.77	ng/uL	96
18) 2-Methylphenol	6.15	107	57286	5.06	ng/uL#	88
19) Bis(2-chloroisopropyl) ether	6.18	45	106320	5.20	ng/uL#	71
20) n-Nitroso-di-n-propylamine	6.31	70	47601	5.13	ng/uL	96
21) 3+4-Methylphenol	6.30	108	67602	4.97	ng/uL	93

(#)= qualifier out of range (m) = manual integration

N8960.D 122313S1.M Mon Dec 23 13:23:55 2013

JH

(12-26-1)

Page 1

68 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8960.D

Vial: 4

Acq On : 23 Dec 2013 12:56

Operator: jk SOP 506 Rev

Sample : ICALSVSTD005

Inst : GC/MS Ins

Misc : ST130926-6

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:22 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:22:14 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.31	106	100474	5.00	ng/uL	95
23) Hexachloroethane	6.45	117	30824	4.94	ng/uL	98
26) N,N-Dimethylaniline	6.49	120	105448	5.15	ng/uL	96
27) Nitrobenzene	6.49	77	93029	5.27	ng/uL	97
28) Isophorone	6.71	82	117551	4.85	ng/uL	100
29) N-Ethylaniline	6.73	106	123746	5.08	ng/uL	97
30) 2-Nitrophenol	6.79	139	30518	4.63	ng/uL	93
31) 2,4-Dimethylphenol	6.80	107	67038	5.13	ng/uL	96
32) Bis(2-chloroethoxy)methane	6.88	93	73746	4.95	ng/uL	98
33) Benzoic acid	6.90	105	1137	0.32	ng/uL#	48
34) 2,4-Dichlorophenol	7.01	162	54693	4.84	ng/uL	99
35) 1,2,4-Trichlorobenzene	7.10	180	68321	5.12	ng/uL	97
36) Naphthalene	7.18	128	180100	4.87	ng/uL#	98
37) 4-Chloroaniline	7.20	127	69592	4.91	ng/uL	98
38) Hexachlorobutadiene	7.28	225	39734	5.05	ng/uL	97
39) 4-Chloro-3-methylphenol	7.62	107	54063	4.68	ng/uL	98
40) 2-Methylnaphthalene	7.79	142	127242	4.92	ng/uL	97
42) 1-Methylnaphthalene	7.88	142	126195	5.06	ng/uL	98
43) Hexachlorocyclopentadiene	7.93	237	24178	4.21	ng/uL	98
44) 2,4,6-Trichlorophenol	8.03	196	35818	4.62	ng/uL	95
45) 2,4,5-Trichlorophenol	8.07	196	37018	4.82	ng/uL	96
47) 2-Chloronaphthalene	8.22	162	118160	5.01	ng/uL	98
48) 2-Nitroaniline	8.29	65	26712	4.49	ng/uL	96
49) 1,4-Dinitrobenzene	8.40	168	11745	3.78	ng/uL	90
50) Dimethylphthalate	8.42	163	120399	5.00	ng/uL	99
51) 1,3-Dinitrobenzene	8.47	168	15444	4.12	ng/uL	98
52) 2,6-Dinitrotoluene	8.49	165	25557	4.83	ng/uL	97
53) 1,2-Dinitrobenzene	8.54	168	12278	4.58	ng/uL	94
54) Acenaphthylene	8.59	152	179994	5.04	ng/uL	99
55) 3-Nitroaniline	8.65	138	23568	4.50	ng/uL	98
56) Acenaphthene	8.74	154	101403	4.89	ng/uL	97
57) 2,4-Dinitrophenol	8.74	184	4446	2.58	ng/uL#	1
58) 4-Nitrophenol	8.77	109	8884	3.77	ng/uL	95
59) Dibenzofuran	8.89	168	152850	4.99	ng/uL	97
60) 2,4-Dinitrotoluene	8.84	165	26352	4.06	ng/uL	91
61) 2,3,5,6-Tetrachlorophenol	8.95	232	26111	4.42	ng/uL	93
62) 2,3,4,6-Tetrachlorophenol	8.99	232	28755	4.72	ng/uL	95
63) Diethylphthalate	9.02	149	110493	4.83	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.15	204	66537	5.01	ng/uL	100
65) 4-Nitroaniline	9.17	138	19456	4.29	ng/uL	90
66) Fluorene	9.18	166	118505	5.11	ng/uL	99

(#)=qualifier out of range (m)=manual integration

N8960.D 122313S1.M Mon Dec 23 13:23:56 2013

Data File : D:\HPCHEM\1\DATA\122313\N8960.D

Vial: 4

Acq On : 23 Dec 2013 12:56

Operator: jk SOP 506 Rev

Sample : ICALSVSTD005

Inst : GC/MS Ins

Misc : ST130926-6

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:22 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:22:14 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.29	77	107764	4.99	ng/uL	97
70) 4,6-Dinitro-2-methylphenol	9.20	198	9443	3.57	ng/uL	86
71) n-Nitrosodiphenylamine	9.25	169	96651	5.17	ng/uL	96
72) 4-Bromophenyl phenyl ether	9.58	248	37898	5.17	ng/uL	99
73) Hexachlorobenzene	9.67	284	35496	5.07	ng/uL	96
74) Pentachlorophenol	9.83	266	11961	3.40	ng/uL	94
75) Phenanthrene	10.02	178	148865	4.91	ng/uL	98
76) Anthracene	10.06	178	153369	4.96	ng/uL	99
77) Carbazole	10.18	167	147016	4.89	ng/uL	97
78) Di-n-butylphthalate	10.40	149	198167	5.02	ng/uL	99
79) Fluoranthene	11.04	202	217948	5.12	ng/uL	98
81) Benzidine	11.11	184	98280	4.48	ng/uL	99
82) Pyrene	11.24	202	224597	5.12	ng/uL	99
84) Butylbenzylphthalate	11.69	149	81202	4.77	ng/uL	98
85) Bis(2-ethylhexyl) adipate	11.71	129	64084	4.95	ng/uL	95
86) Bis(2-ethylhexyl)phthalate	12.14	149	102226	4.68	ng/uL	99
87) 3,3'-Dichlorobenzidine	12.20	252	58202	4.65	ng/uL	98
88) Benzo[a]anthracene	12.26	228	184212	4.97	ng/uL	99
89) Chrysene	12.29	228	156374	4.84	ng/uL	99
90) Di-n-octylphthalate	12.70	149	141208	4.46	ng/uL	95
92) Benzo[b]fluoranthene	13.28	252	152407	4.66	ng/uL	98
93) Benzo[k]fluoranthene	13.31	252	139335	4.70	ng/uL	98
94) Benzo[a]pyrene	13.66	252	131927	4.70	ng/uL	98
95) Indeno(1,2,3-c,d)pyrene	15.16	276	118013	5.02	ng/uL	99
96) Dibenzo[a,h]anthracene	15.14	278	97564	4.83	ng/uL	98
97) Benzo[g,h,i]perylene	15.60	276	101320	5.08	ng/uL	99

(#) = qualifier out of range (m) = manual integration

N8960.D 122313S1.M Mon Dec 23 13:23:56 2013

Page 3

70 of 211

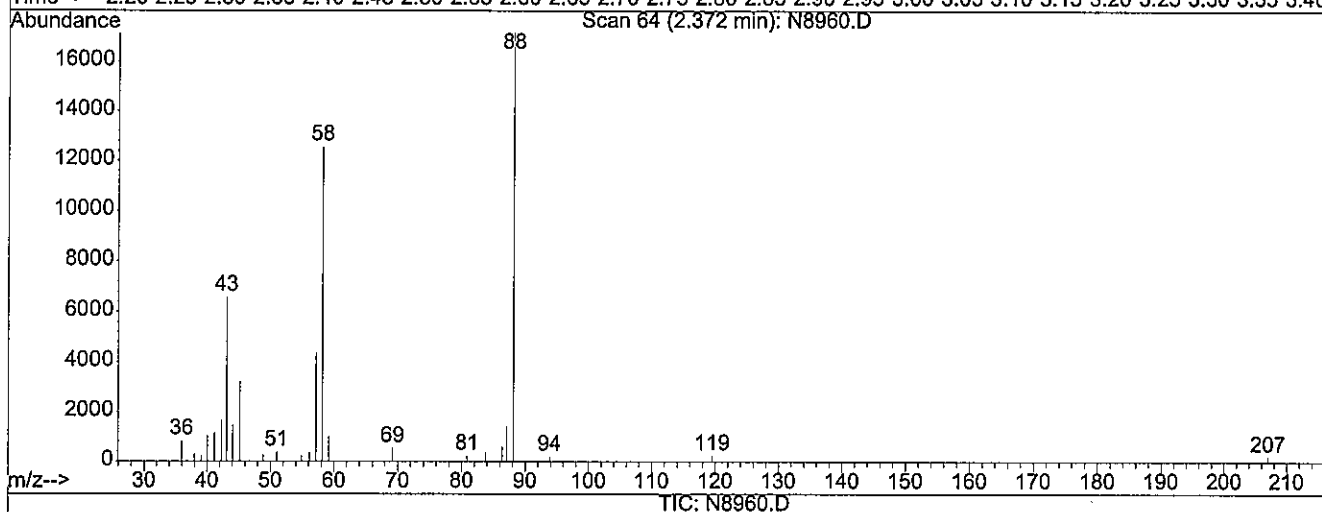
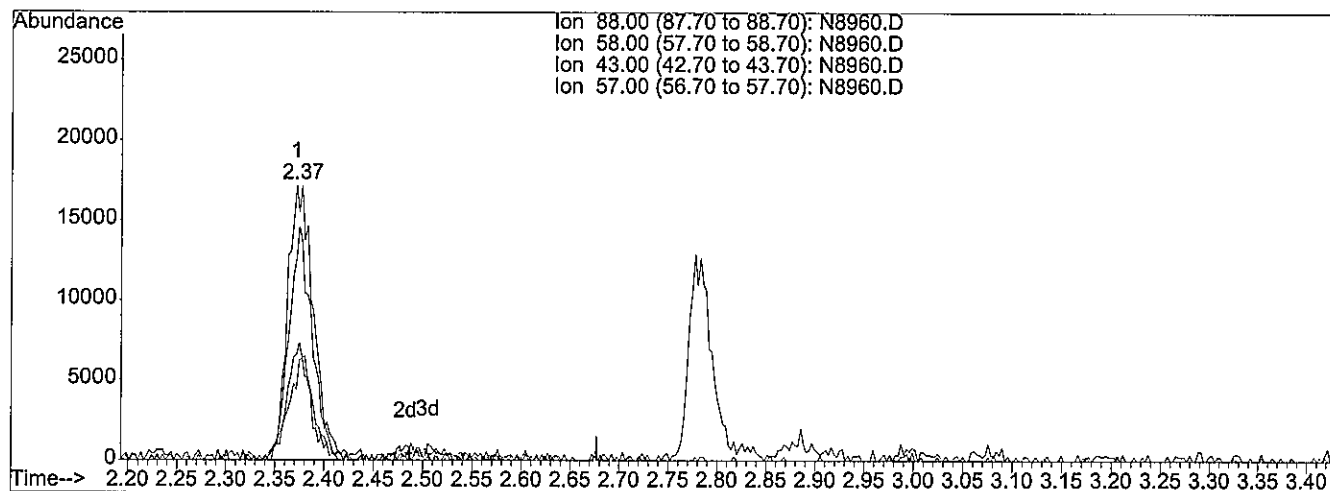
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8960.D
 Acq On : 23 Dec 2013 12:56
 Sample : ICALSVSTD005
 Misc : ST130926-6
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 13:22 2013

Vial: 4
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 13:22:14 2013
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.37min 4.34ng/uL

response 31095

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	77.58
43.00	35.60	40.22
57.00	27.90	33.86#

Signature

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8960.D

Vial: 4

Acq On : 23 Dec 2013 12:56

Operator: jk SOP 50

Sample : ICALSVSTD005

Inst : GC/MS Ins

Misc : ST130926-6

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:22 2013

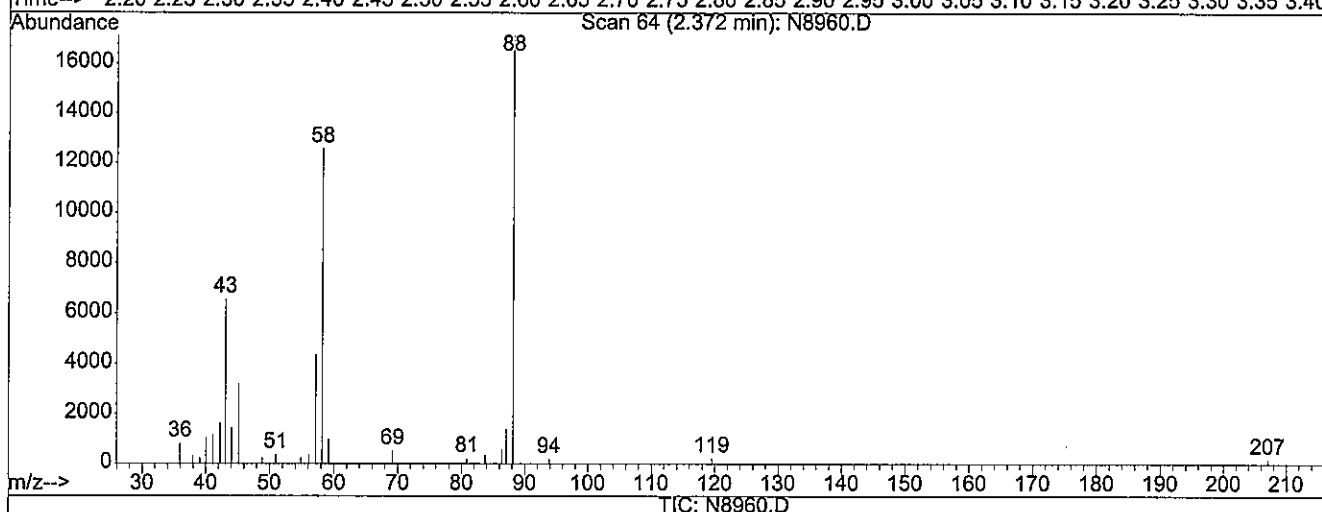
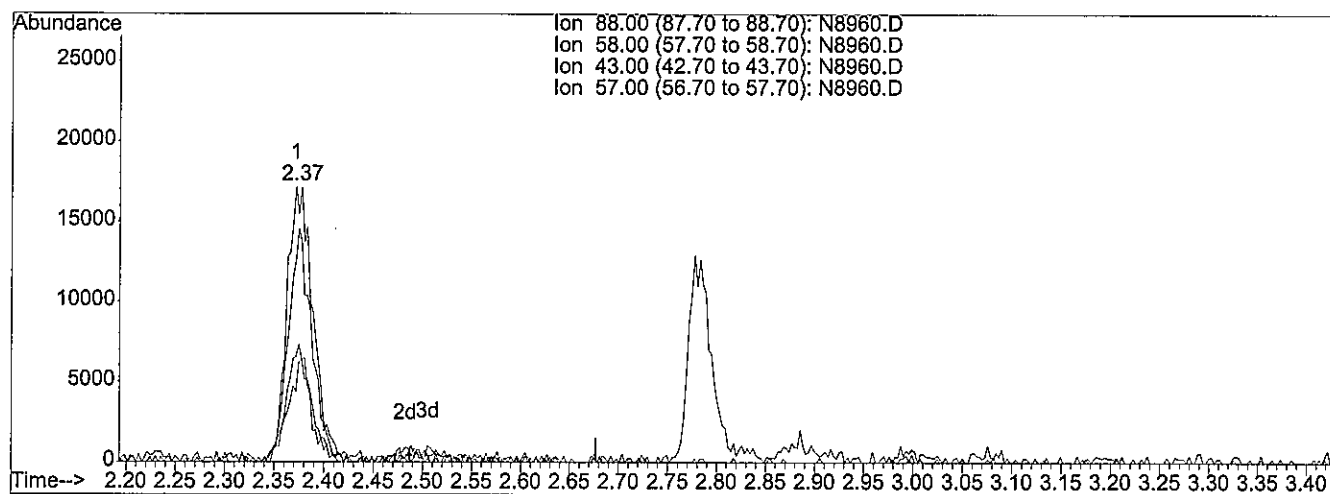
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:22:14 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.37min 4.83ng/uL m

response 34599

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	69.73
43.00	35.60	36.14
57.00	27.90	30.43

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8960.D

Vial: 4

Acq On : 23 Dec 2013 12:56

Operator: jk SOP 50

Sample : ICALSVSTD005

Inst : GC/MS Ins

Misc : ST130926-6

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:22 2013

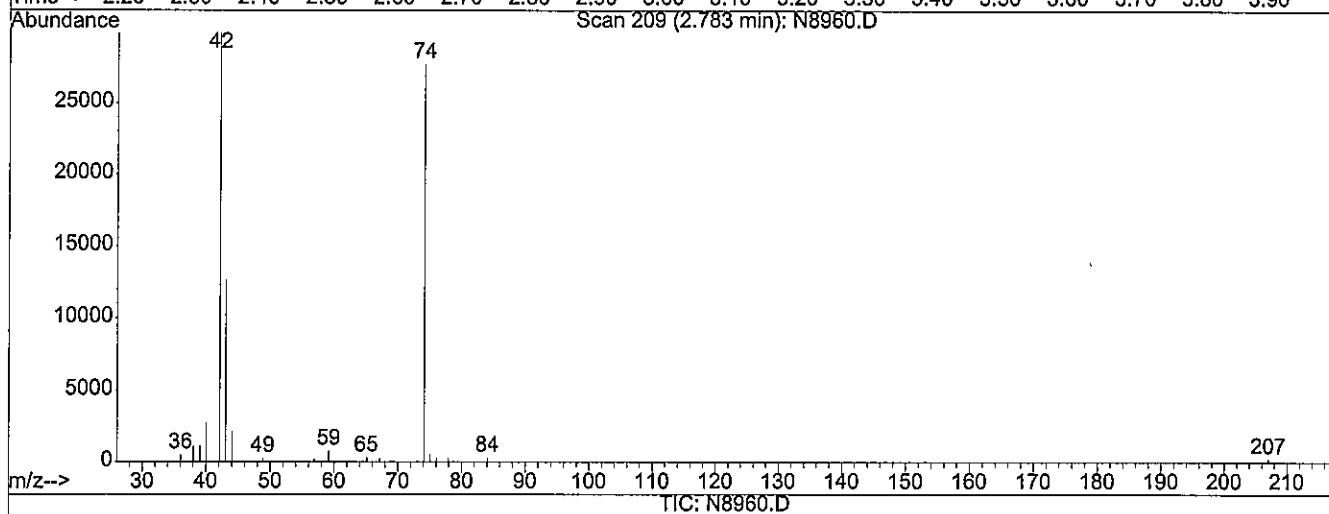
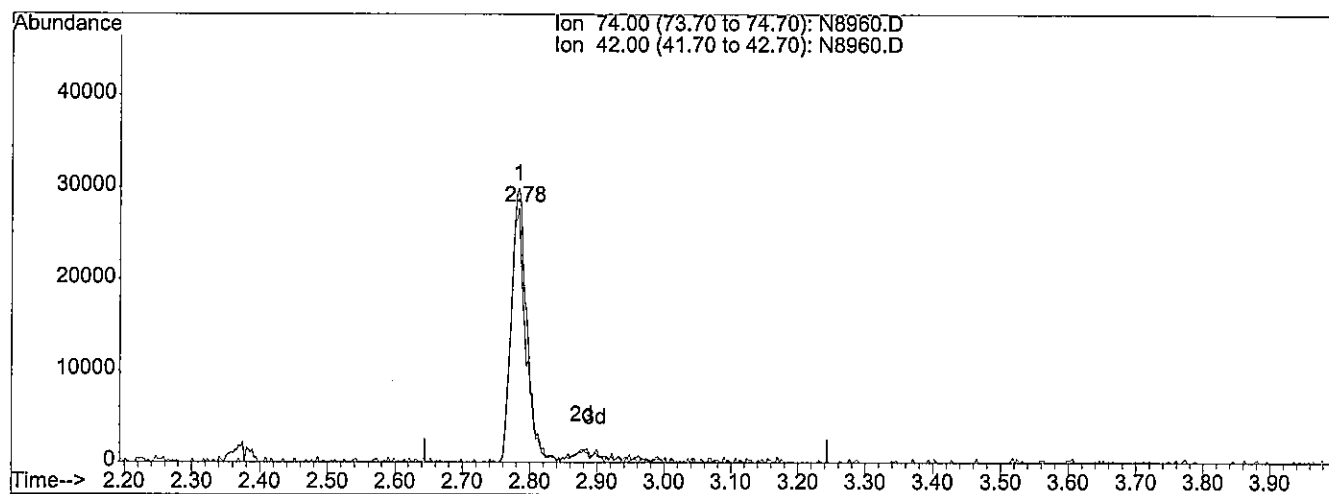
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:22:14 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.78min 4.20ng/uL

response 42456

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	111.68
0.00	0.00	0.00
0.00	0.00	0.00

Sefer

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8960.D

Vial: 4

Acq On : 23 Dec 2013 12:56

Operator: jk SOP 50

Sample : ICALSVSTD005

Inst : GC/MS Ins

Misc : ST130926-6

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:22 2013

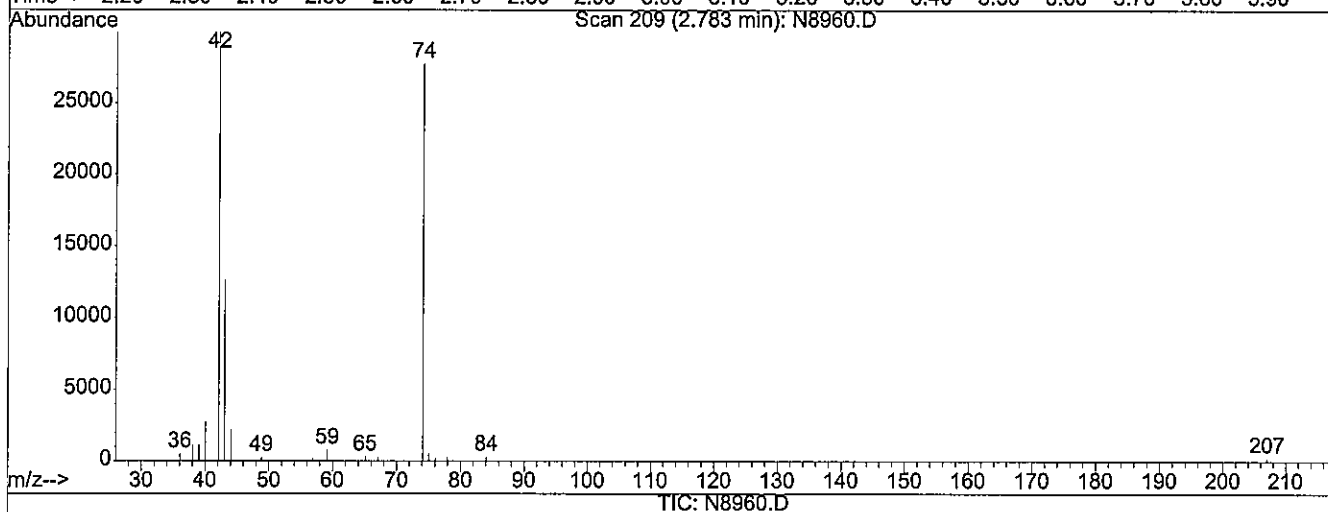
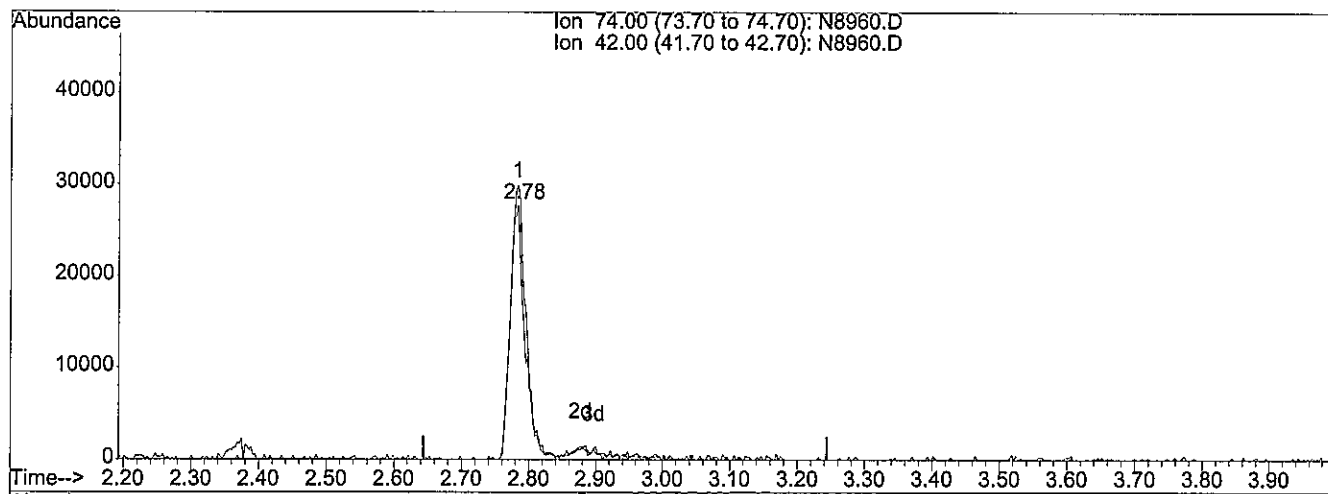
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:22:14 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.78min 4.73ng/uL m

response 47800

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	99.20
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8960.D

Vial: 4

Acq On : 23 Dec 2013 12:56

Operator: jk SOP 50

Sample : ICALSVSTD005

Inst : GC/MS Ins

Misc : ST130926-6

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:22 2013

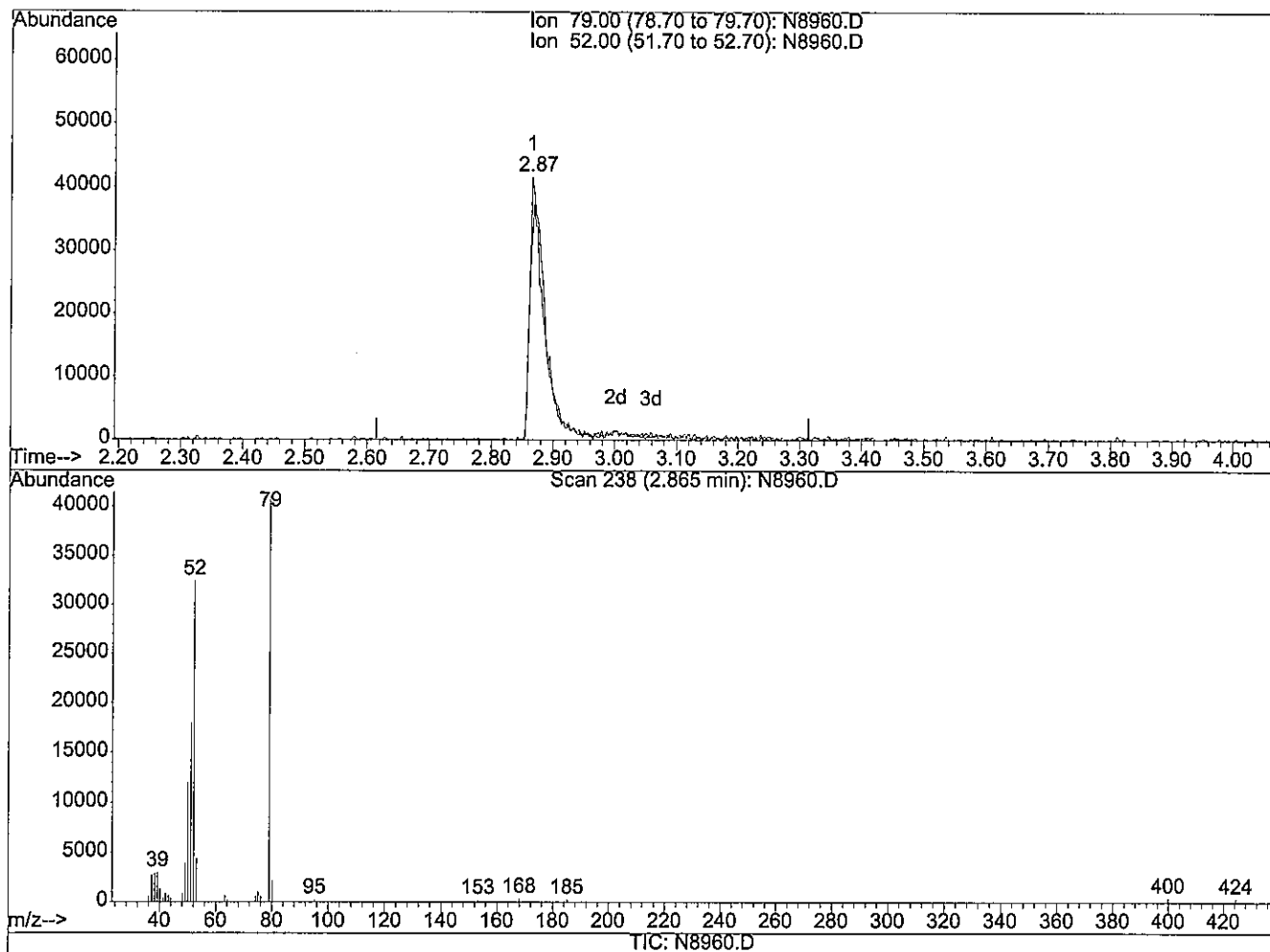
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:22:14 2013

Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 4.56ng/uL

response 71408

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	88.00
0.00	0.00	0.00
0.00	0.00	0.00

3d

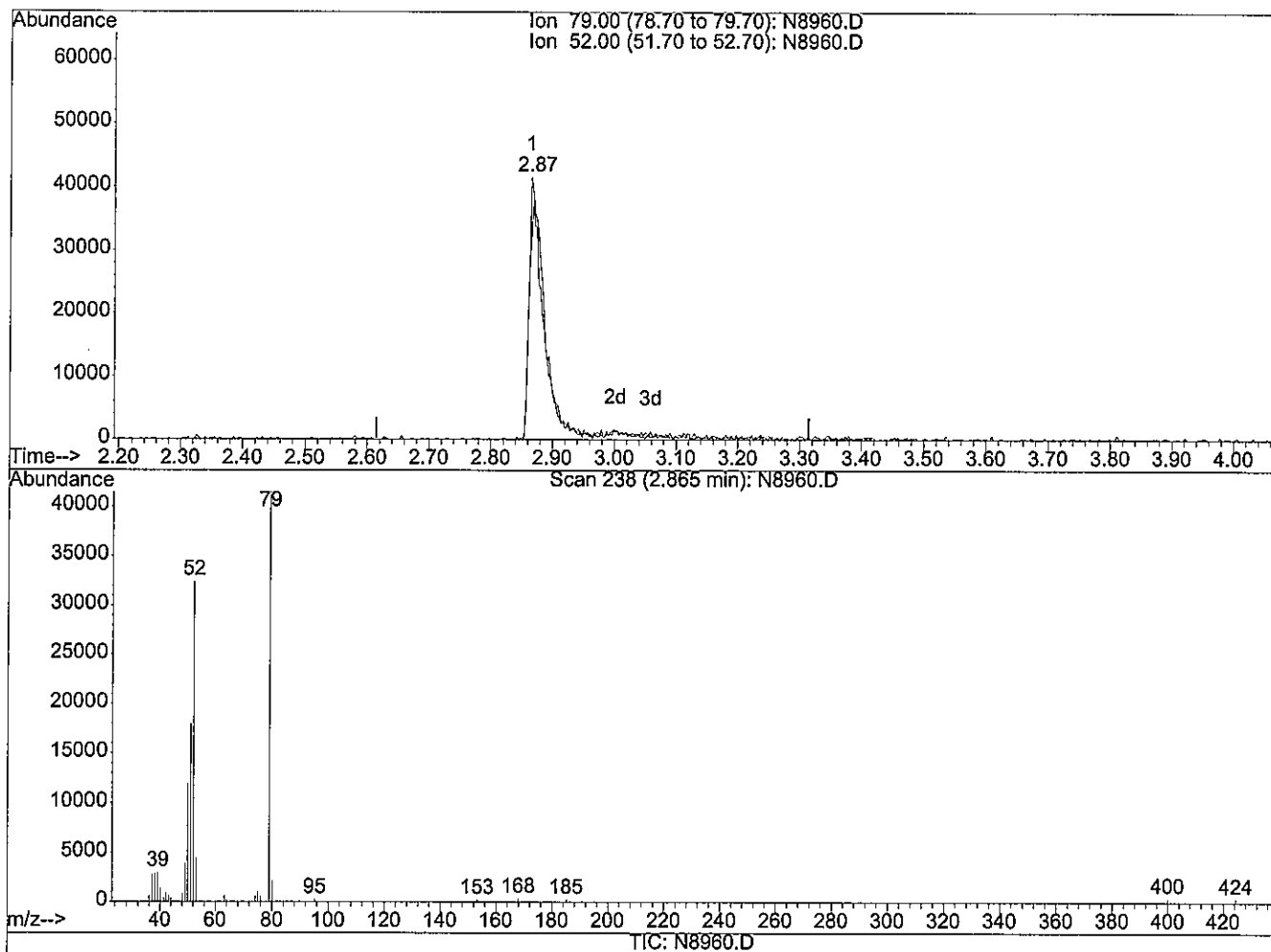
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8960.D
 Acq On : 23 Dec 2013 12:56
 Sample : ICALSVSTD005
 Misc : ST130926-6
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 13:22 2013

Vial: 4
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 13:22:14 2013
 Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 5.24ng/uL m

response 82052

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	76.59
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8960.D

Vial: 4

Acq On : 23 Dec 2013 12:56

Operator: jk SOP 50

Sample : ICALSVSTD005

Inst : GC/MS Ins

Misc : ST130926-6

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:22 2013

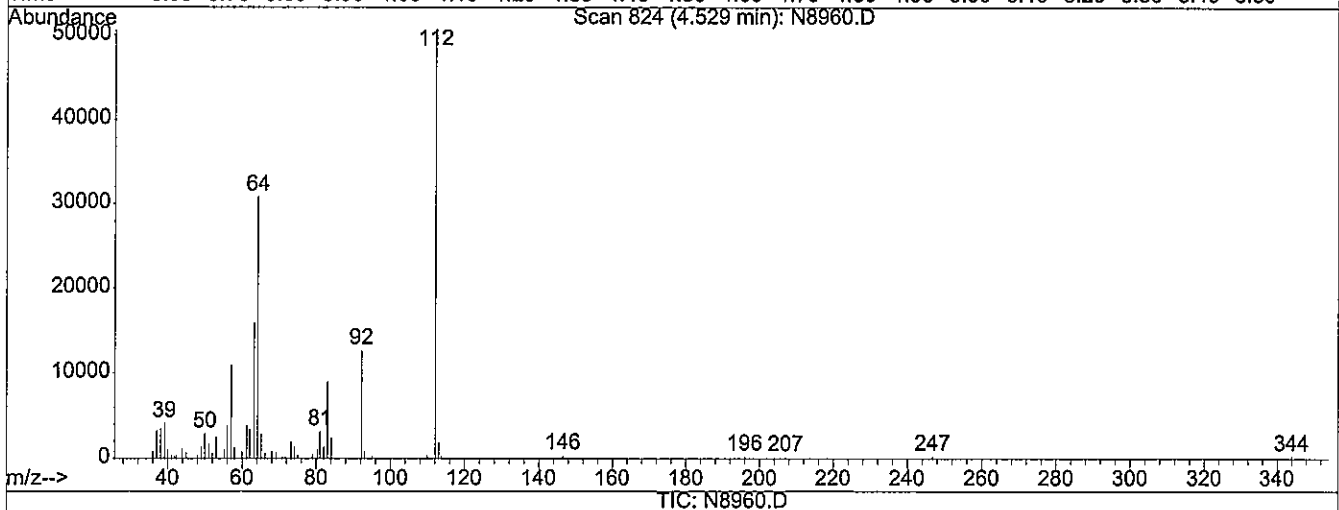
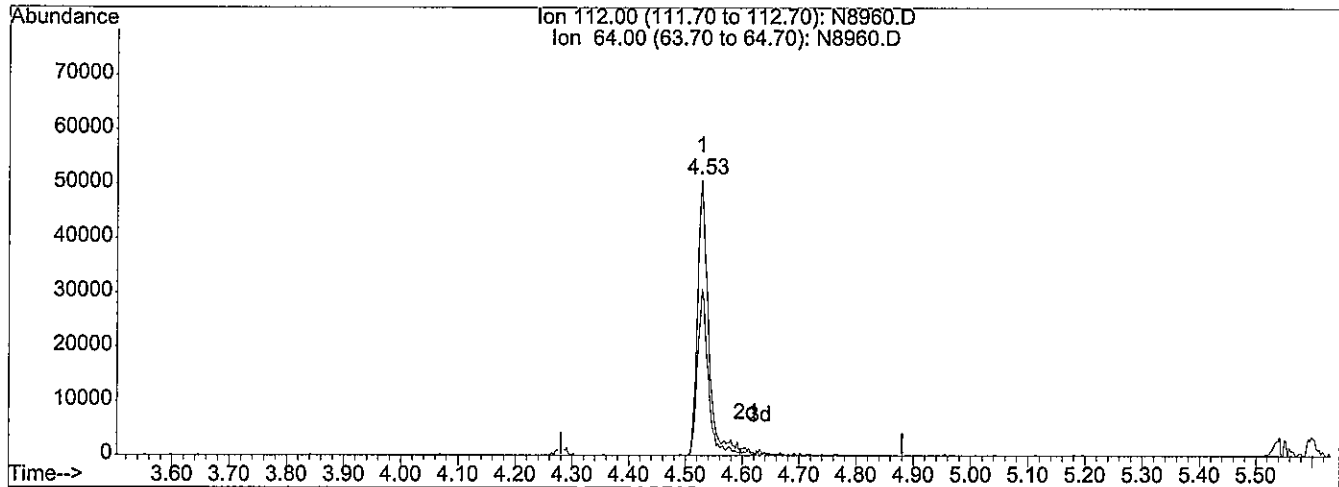
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:22:14 2013

Response via : Multiple Level Calibration



(5) 2-Fluorophenol (S)

4.53min 4.64ng/uL

response 68037

Ion	Exp%	Act%
112.00	100	100
64.00	55.00	57.73
0.00	0.00	0.00
0.00	0.00	0.00

John

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8960.D

Vial: 4

Acq On : 23 Dec 2013 12:56

Operator: jk SOP 50

Sample : ICALSVSTD005

Inst : GC/MS Ins

Misc : ST130926-6

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:22 2013

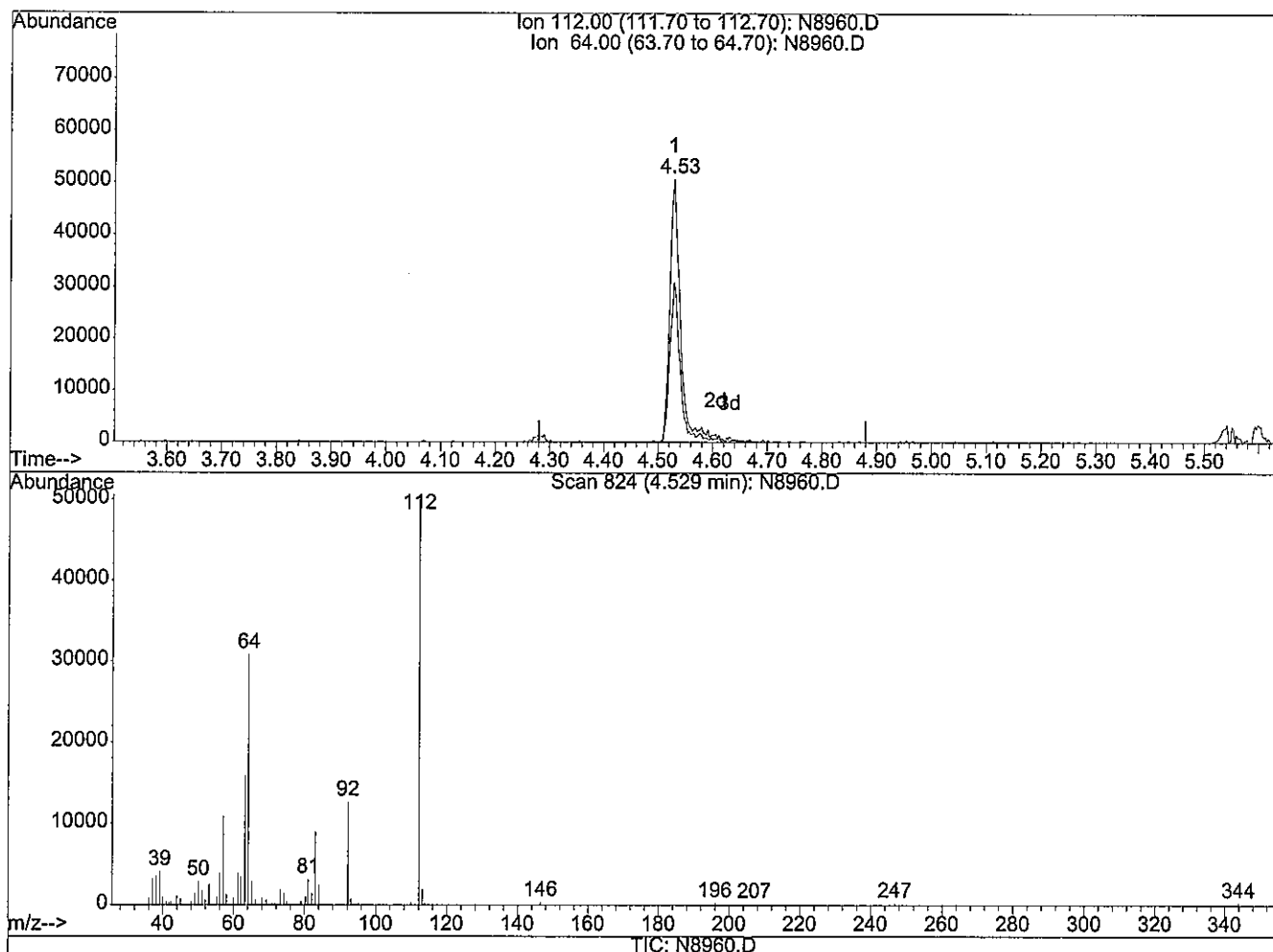
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:22:14 2013

Response via : Multiple Level Calibration



(5) 2-Fluorophenol (S)

4.53min 4.85ng/uL m

response 71186

Ion	Exp%	Act%
112.00	100	100
64.00	55.00	55.18
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

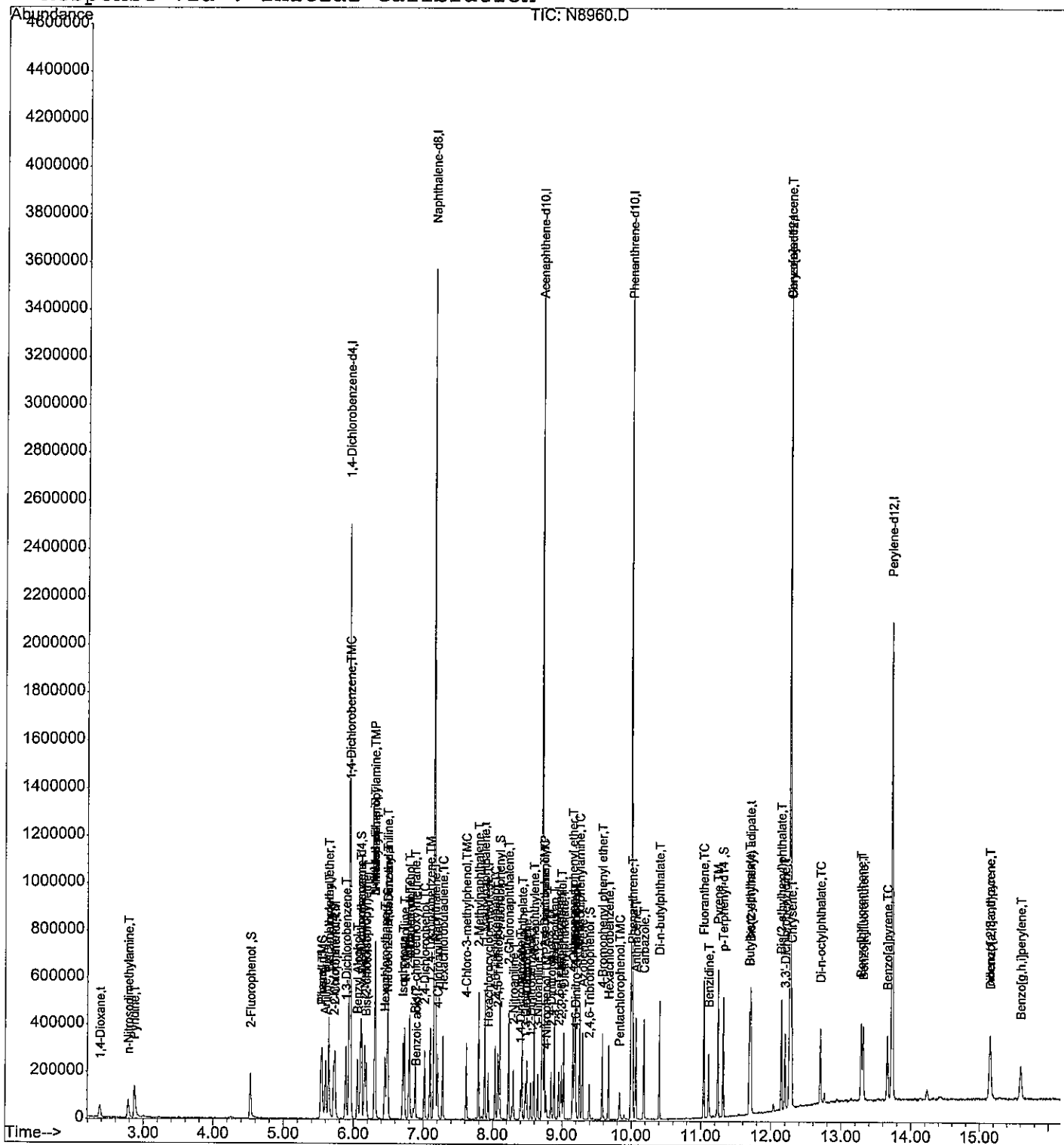
Quantitation Report

Data File : D:\HPCHEM\1\DATA\122313\N8960.D
 Acq On : 23 Dec 2013 12:56
 Sample : ICALSVSTD005
 Misc : ST130926-6
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 13:22 2013

Vial: 4
 Operator: jk SOP 506
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: 122313S1.RES

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 13:22:14 2013
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\122313\N8961.D

Vial: 5

Acq On : 23 Dec 2013 13:20

Operator: jk SOP 506 Rev

Sample : ICALSVSTD010

Inst : GC/MS Ins

Misc : ST130926-7

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:51 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:50:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	433569	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1593277	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.71	164	814874	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1437383	40.00	ng/uL	0.00
80) Chrysene-d12	12.27	240	1478049	40.00	ng/uL	0.00
91) Perylene-d12	13.73	264	1197230	40.00	ng/uL	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	152334	10.26	ng/uL	0.00
Spiked Amount 75.000	Range 46 - 105		Recovery =	13.68%#		
6) 2-Chlorophenol-d4	5.71	132	154892	10.87	ng/uL	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery =	14.49%#		
8) Phenol-d5	5.54	99	193721	10.71	ng/uL	0.00
Spiked Amount 75.000	Range 50 - 109		Recovery =	14.28%#		
15) 1,2-Dichlorobenzene-d4	6.10	152	123720	10.64	ng/uL	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery =	21.28%		
25) Nitrobenzene-d5	6.47	82	147277	10.68	ng/uL	0.00
Spiked Amount 50.000	Range 53 - 111		Recovery =	21.36%#		
46) 2-Fluorobiphenyl	8.10	172	310304	10.70	ng/uL	0.00
Spiked Amount 50.000	Range 55 - 108		Recovery =	21.40%#		
68) 2,4,6-Tribromophenol	9.39	330	31502	10.29	ng/uL	0.00
Spiked Amount 75.000	Range 42 - 117		Recovery =	13.72%#		
83) p-Terphenyl-d14	11.32	244	351626	10.45	ng/uL	0.00
Spiked Amount 50.000	Range 34 - 139		Recovery =	20.90%#		

Target Compounds

					Qvalue
2) 1,4-Dioxane	2.37	88	67421m	9.66	ng/uL
3) n-Nitrosodimethylamine	2.78	74	103464m	10.32	ng/uL
4) Pyridine	2.87	79	166894m	10.46	ng/uL
7) Aniline	5.60	93	201962	10.29	ng/uL 99
9) Phenol	5.55	94	185446	10.54	ng/uL 97
10) Tetramethylurea	5.64	72	221519	9.96	ng/uL 99
11) Bis(2-chloroethyl)ether	5.64	93	148015	10.66	ng/uL 96
12) 2-Chlorophenol	5.73	128	150098	10.44	ng/uL 100
13) 1,3-Dichlorobenzene	5.89	146	165364	10.12	ng/uL 97
14) 1,4-Dichlorobenzene	5.96	146	156739	10.44	ng/uL 97
16) 1,2-Dichlorobenzene	6.11	146	147540	10.43	ng/uL 100
17) Benzyl Alcohol	6.06	108	89133	10.18	ng/uL 99
18) 2-Methylphenol	6.15	107	115305	10.28	ng/uL# 93
19) Bis(2-chloroisopropyl)ethe	6.18	45	213882	10.45	ng/uL# 72
20) n-Nitroso-di-n-propylamine	6.31	70	99489	10.63	ng/uL 96
21) 3+4-Methylphenol	6.30	108	143951	10.54	ng/uL 96

(#)=qualifier out of range (m)=manual integration

N8961.D 122313S1.M Mon Dec 23 13:52:25 2013

Data File : D:\HPCHEM\1\DATA\122313\N8961.D

Vial: 5

Acq On : 23 Dec 2013 13:20

Operator: jk SOP 506 Rev

Sample : ICALSVSTD010

Inst : GC/MS Ins

Misc : ST130926-7

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:51 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:50:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.31	106	203617	10.24	ng/uL	97
23) Hexachloroethane	6.45	117	62772	10.19	ng/uL	98
26) N,N-Dimethylaniline	6.49	120	200612	9.93	ng/uL	93
27) Nitrobenzene	6.49	77	182552	10.29	ng/uL	98
28) Isophorone	6.71	82	249452	10.26	ng/uL	99
29) N-Ethylaniline	6.73	106	242873	10.05	ng/uL	97
30) 2-Nitrophenol	6.79	139	64396	9.91	ng/uL	94
31) 2,4-Dimethylphenol	6.80	107	134446	10.26	ng/uL	99
32) Bis(2-chloroethoxy)methane	6.88	93	150717	10.14	ng/uL	97
33) Benzoic acid	6.93	105	1702	0.71	ng/uL#	50
34) 2,4-Dichlorophenol	7.01	162	113629	10.10	ng/uL	100
35) 1,2,4-Trichlorobenzene	7.10	180	137452	10.26	ng/uL	98
36) Naphthalene	7.17	128	372940	10.12	ng/uL#	100
37) 4-Chloroaniline	7.20	127	144458	10.20	ng/uL	98
38) Hexachlorobutadiene	7.28	225	80722	10.24	ng/uL	99
39) 4-Chloro-3-methylphenol	7.62	107	117668	10.19	ng/uL	98
40) 2-Methylnaphthalene	7.79	142	270417	10.37	ng/uL	98
42) 1-Methylnaphthalene	7.88	142	265267	10.38	ng/uL	99
43) Hexachlorocyclopentadiene	7.93	237	53559	9.50	ng/uL	97
44) 2,4,6-Trichlorophenol	8.03	196	82275	10.36	ng/uL	99
45) 2,4,5-Trichlorophenol	8.07	196	82824	10.47	ng/uL	98
47) 2-Chloronaphthalene	8.23	162	248182	10.30	ng/uL	99
48) 2-Nitroaniline	8.29	65	64413	10.50	ng/uL	97
49) 1,4-Dinitrobenzene	8.40	168	30340	9.80	ng/uL	96
50) Dimethylphthalate	8.42	163	252030	10.26	ng/uL	100
51) 1,3-Dinitrobenzene	8.47	168	38132	10.07	ng/uL	93
52) 2,6-Dinitrotoluene	8.49	165	56078	10.35	ng/uL	95
53) 1,2-Dinitrobenzene	8.54	168	27045	10.02	ng/uL	93
54) Acenaphthylene	8.60	152	368750	10.18	ng/uL	99
55) 3-Nitroaniline	8.65	138	51780	9.88	ng/uL	93
56) Acenaphthene	8.74	154	213816	10.17	ng/uL	97
57) 2,4-Dinitrophenol	8.73	184	13525	8.41	ng/uL#	1
58) 4-Nitrophenol	8.77	109	22371	9.62	ng/uL	95
59) Dibenzofuran	8.89	168	331617	10.50	ng/uL	99
60) 2,4-Dinitrotoluene	8.84	165	65612	10.03	ng/uL	96
61) 2,3,5,6-Tetrachlorophenol	8.95	232	56836	9.71	ng/uL	98
62) 2,3,4,6-Tetrachlorophenol	8.99	232	61952	10.07	ng/uL	94
63) Diethylphthalate	9.02	149	232995	10.08	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.15	204	138780	10.25	ng/uL	98
65) 4-Nitroaniline	9.17	138	47051	10.21	ng/uL	91
66) Fluorene	9.19	166	250908	10.50	ng/uL	98

(#)=qualifier out of range (m)=manual integration

N8961.D 122313S1.M Mon Dec 23 13:52:26 2013

Data File : D:\HPCHEM\1\DATA\122313\N8961.D

Vial: 5

Acq On : 23 Dec 2013 13:20

Operator: jk SOP 506 Rev

Sample : ICALSVSTD010

Inst : GC/MS Ins

Misc : ST130926-7

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:51 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:50:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.29	77	229416	10.37	ng/uL	98
70) 4,6-Dinitro-2-methylphenol	9.20	198	26319	9.52	ng/uL	94
71) n-Nitrosodiphenylamine	9.25	169	217179	10.56	ng/uL	99
72) 4-Bromophenyl phenyl ether	9.58	248	82052	10.31	ng/uL	98
73) Hexachlorobenzene	9.67	284	79146	10.38	ng/uL	98
74) Pentachlorophenol	9.83	266	32911	9.12	ng/uL	96
75) Phenanthrene	10.02	178	326520	10.05	ng/uL	98
76) Anthracene	10.06	178	343639	10.26	ng/uL	100
77) Carbazole	10.18	167	332449	10.23	ng/uL	99
78) Di-n-butylphthalate	10.40	149	442372	10.32	ng/uL	99
79) Fluoranthene	11.04	202	481370	10.38	ng/uL	99
81) Benzidine	11.11	184	226741	9.43	ng/uL	99
82) Pyrene	11.25	202	486377	9.89	ng/uL	98
84) Butylbenzylphthalate	11.69	149	185578	9.77	ng/uL	97
85) Bis(2-ethylhexyl) adipate	11.71	129	142346	9.83	ng/uL	94
86) Bis(2-ethylhexyl)phthalate	12.15	149	238726	9.79	ng/uL	99
87) 3,3'-Dichlorobenzidine	12.20	252	130918	9.50	ng/uL	97
88) Benzo[a]anthracene	12.26	228	414554	9.94	ng/uL	100
89) Chrysene	12.29	228	356187	9.84	ng/uL	99
90) Di-n-octylphthalate	12.70	149	349043	9.84	ng/uL	97
92) Benzo[b]fluoranthene	13.28	252	365862	9.76	ng/uL	99
93) Benzo[k]fluoranthene	13.31	252	332510	9.77	ng/uL	99
94) Benzo[a]pyrene	13.66	252	322835	9.94	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.16	276	290293	10.42	ng/uL	95
96) Dibenzo[a,h]anthracene	15.15	278	238592	10.12	ng/uL	97
97) Benzo[g,h,i]perylene	15.60	276	241700	10.30	ng/uL	100

 (#) = qualifier out of range (m) = manual integration

N8961.D 122313S1.M Mon Dec 23 13:52:26 2013

Page 3

82 of 211

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8961.D

Vial: 5

Acq On : 23 Dec 2013 13:20

Operator: jk SOP 50

Sample : ICALSVSTD010

Inst : GC/MS Ins

Misc : ST130926-7

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:50 2013

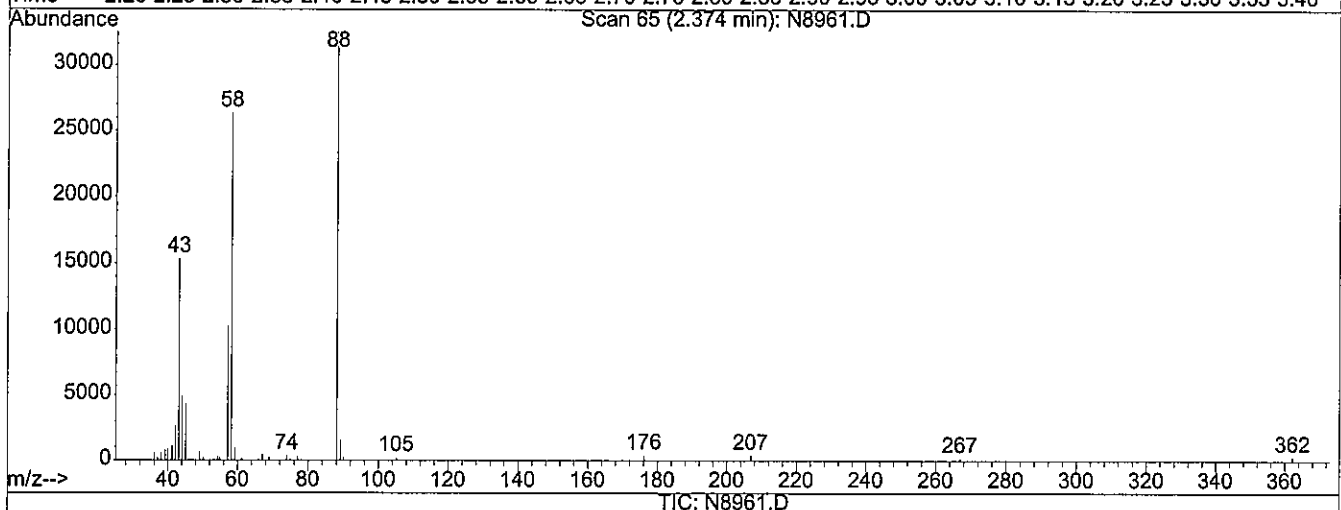
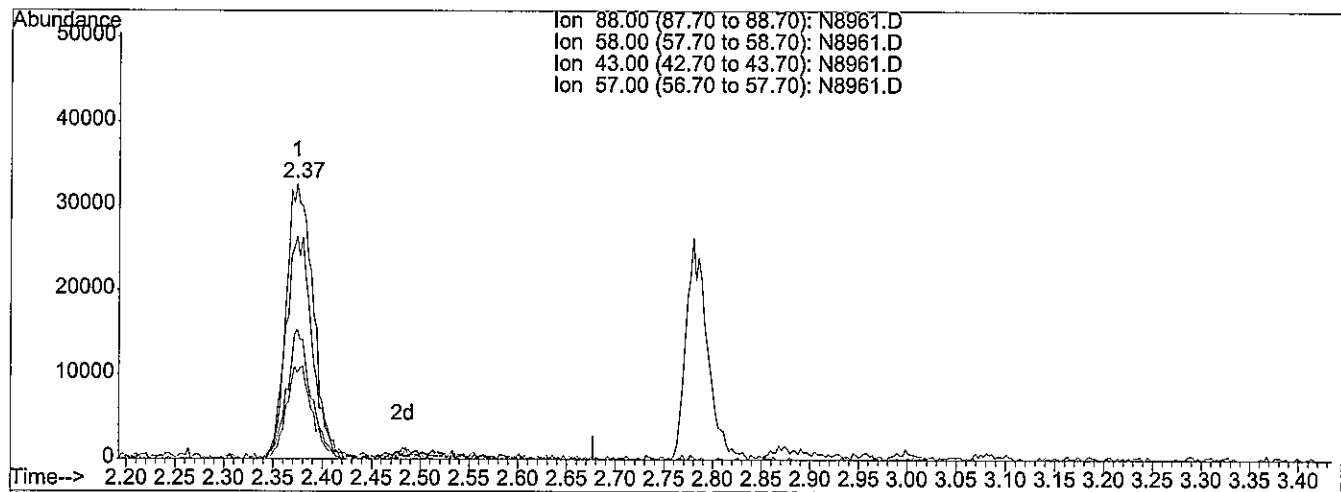
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:50:25 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.37min 8.93ng/uL

response 62273

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	78.12
43.00	35.60	42.26
57.00	27.90	31.97

3efor

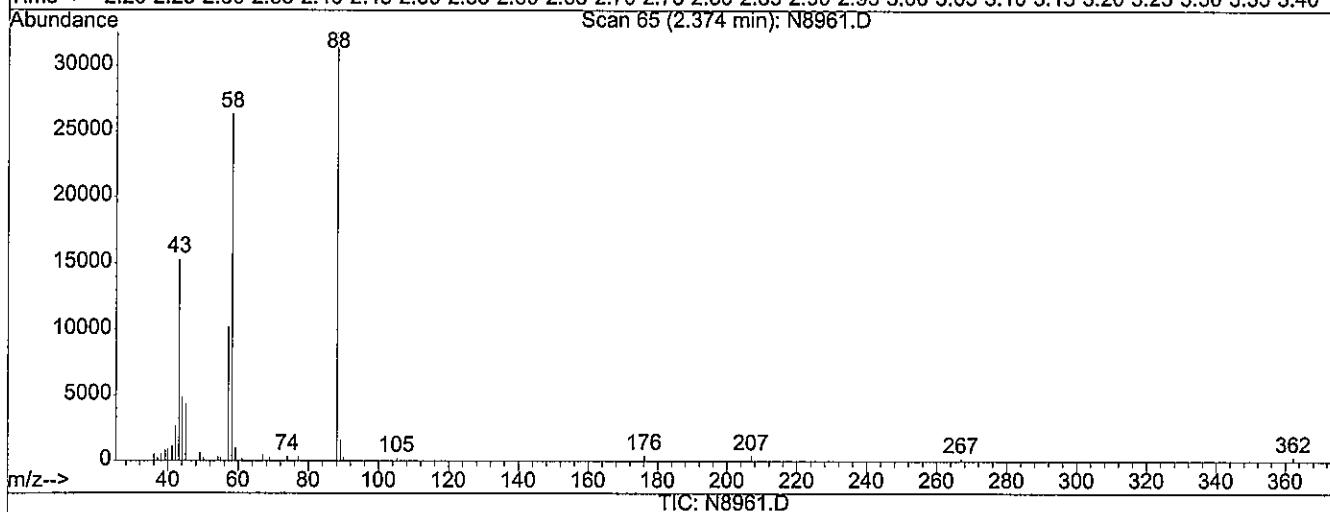
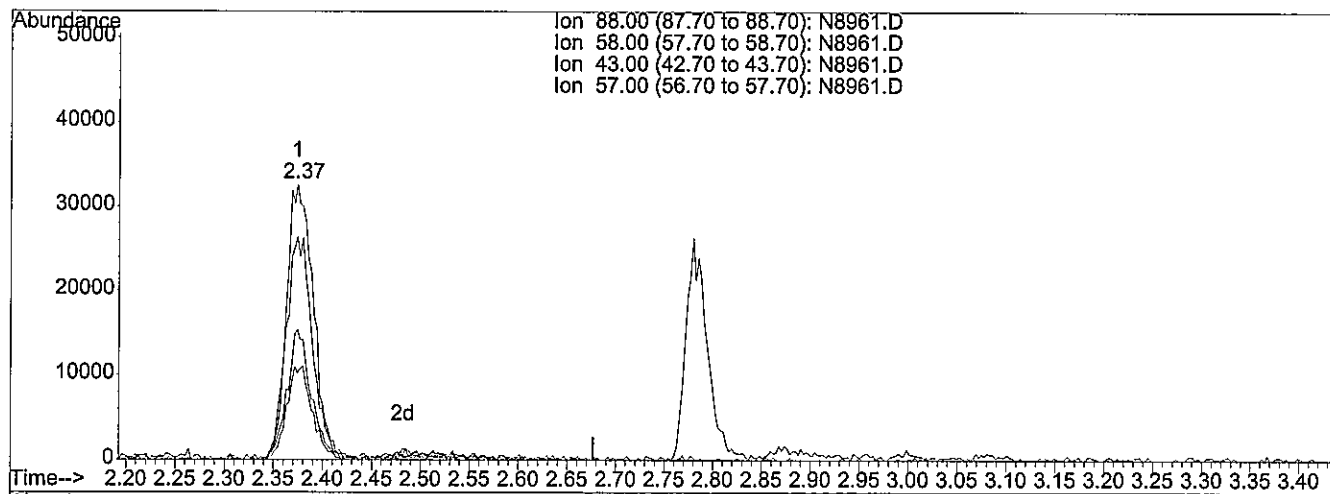
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8961.D
 Acq On : 23 Dec 2013 13:20
 Sample : ICALSVSTD010
 Misc : ST130926-7
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 13:50 2013

Vial: 5
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 13:50:25 2013
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.37min 9.66ng/uL m

response 67421

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	72.15
43.00	35.60	39.04
57.00	27.90	29.53

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8961.D

Acq On : 23 Dec 2013 13:20

Sample : ICALSVSTD010

Misc : ST130926-7

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:50 2013

Vial: 5

Operator: jk SOP 50

Inst : GC/MS Ins

Multiplr: 1.00

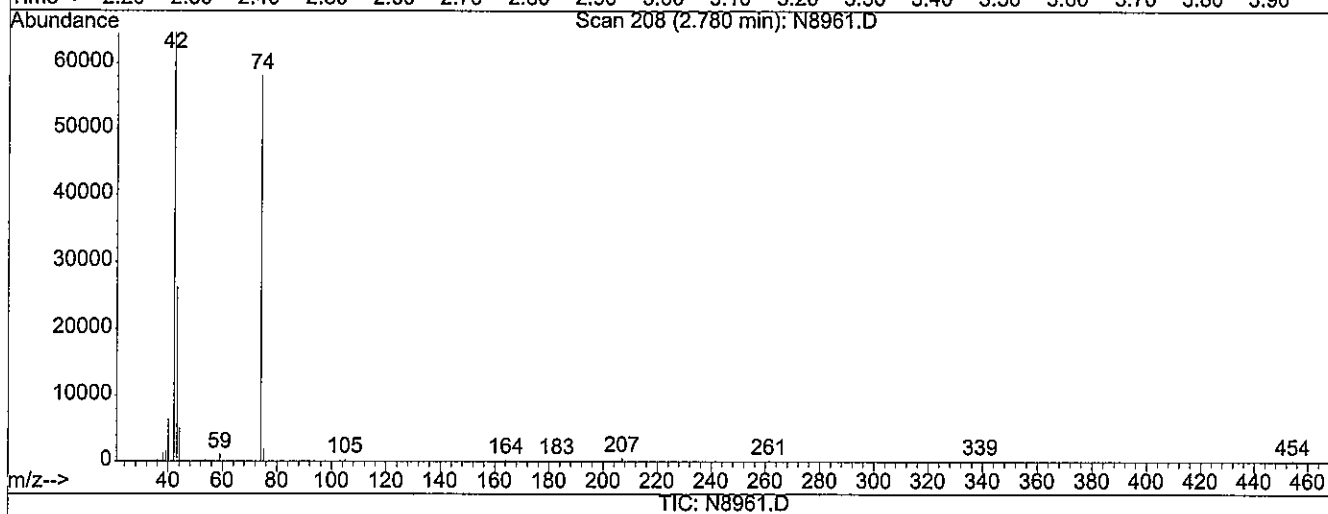
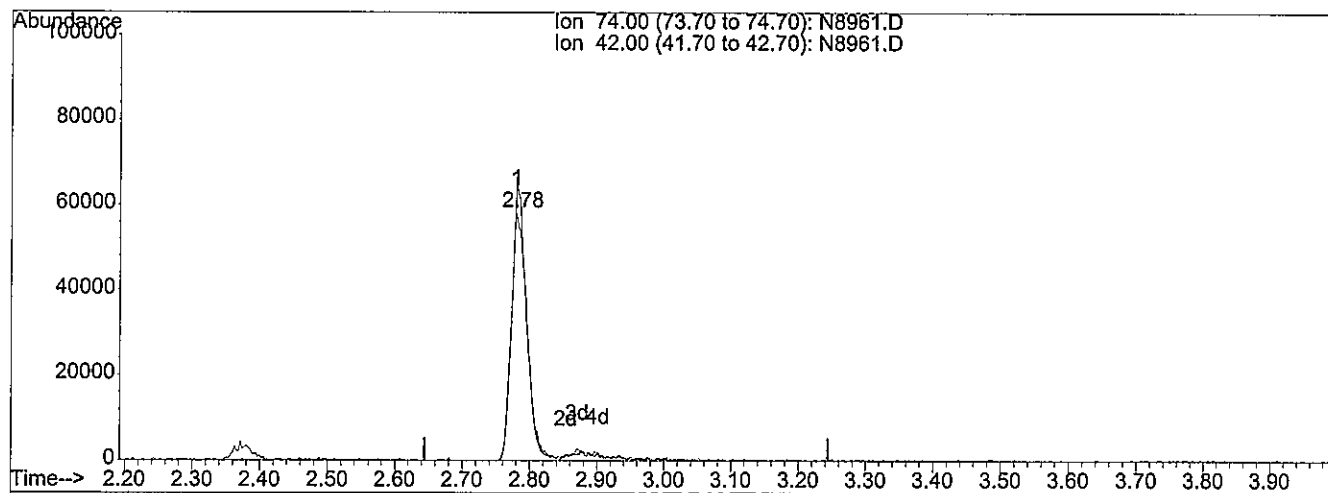
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:50:25 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.78min 9.39ng/uL

response 94120

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	105.51
0.00	0.00	0.00
0.00	0.00	0.00

3.6e

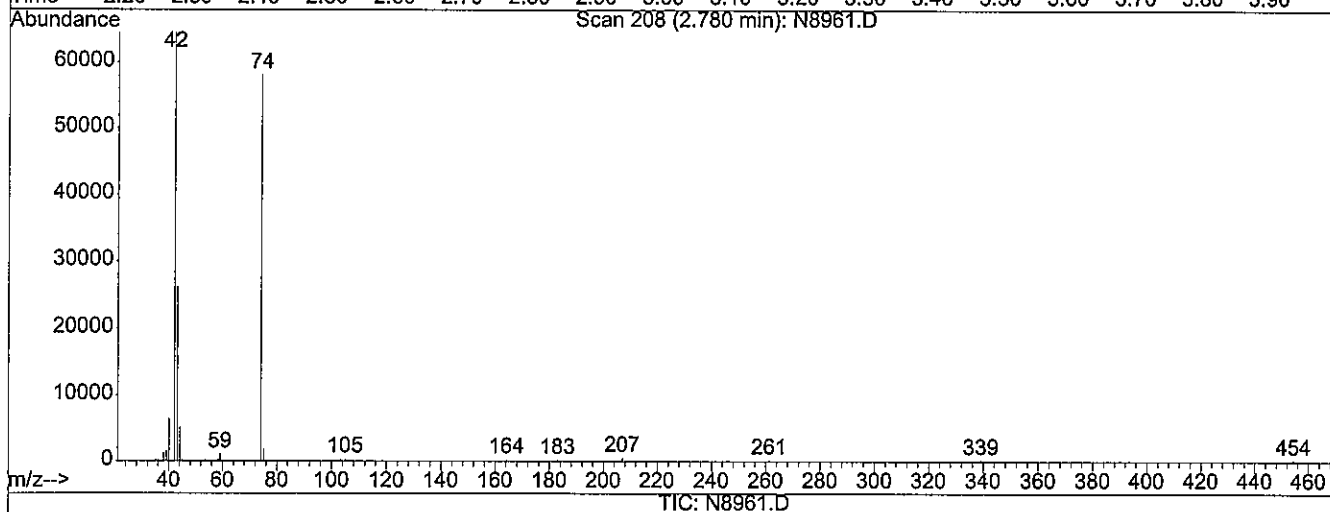
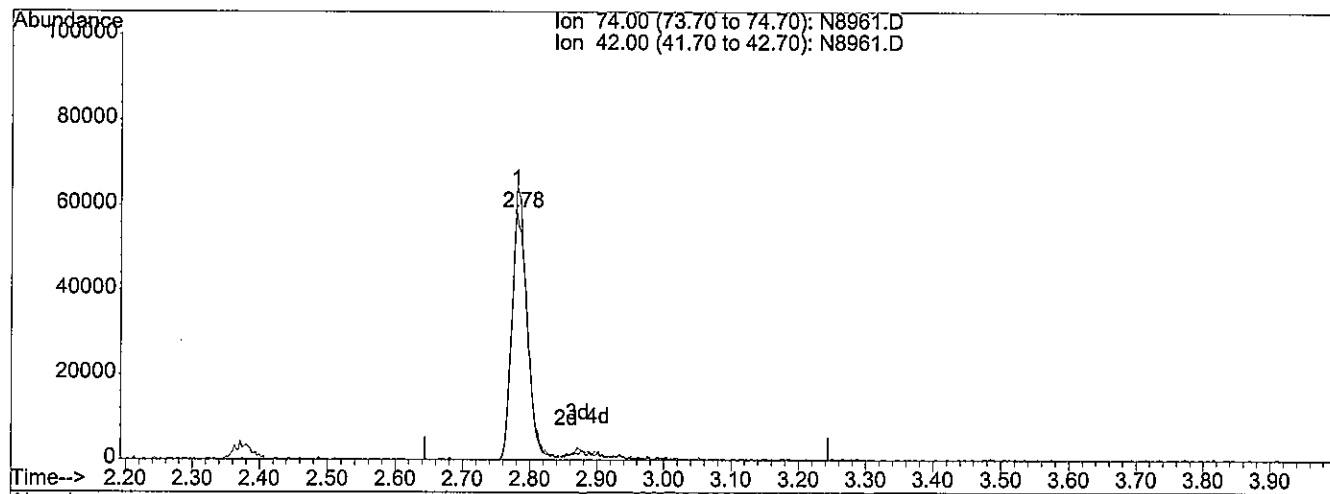
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8961.D
 Acq On : 23 Dec 2013 13:20
 Sample : ICALSVSTD010
 Misc : ST130926-7
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 13:51 2013

Vial: 5
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 13:50:25 2013
 Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.78min 10.32ng/uL m

response 103464

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	95.99
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ja date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8961.D

Acq On : 23 Dec 2013 13:20

Sample : ICALSVSTD010

Misc : ST130926-7

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:51 2013

Vial: 5

Operator: jk SOP 50

Inst : GC/MS Ins

Multiplr: 1.00

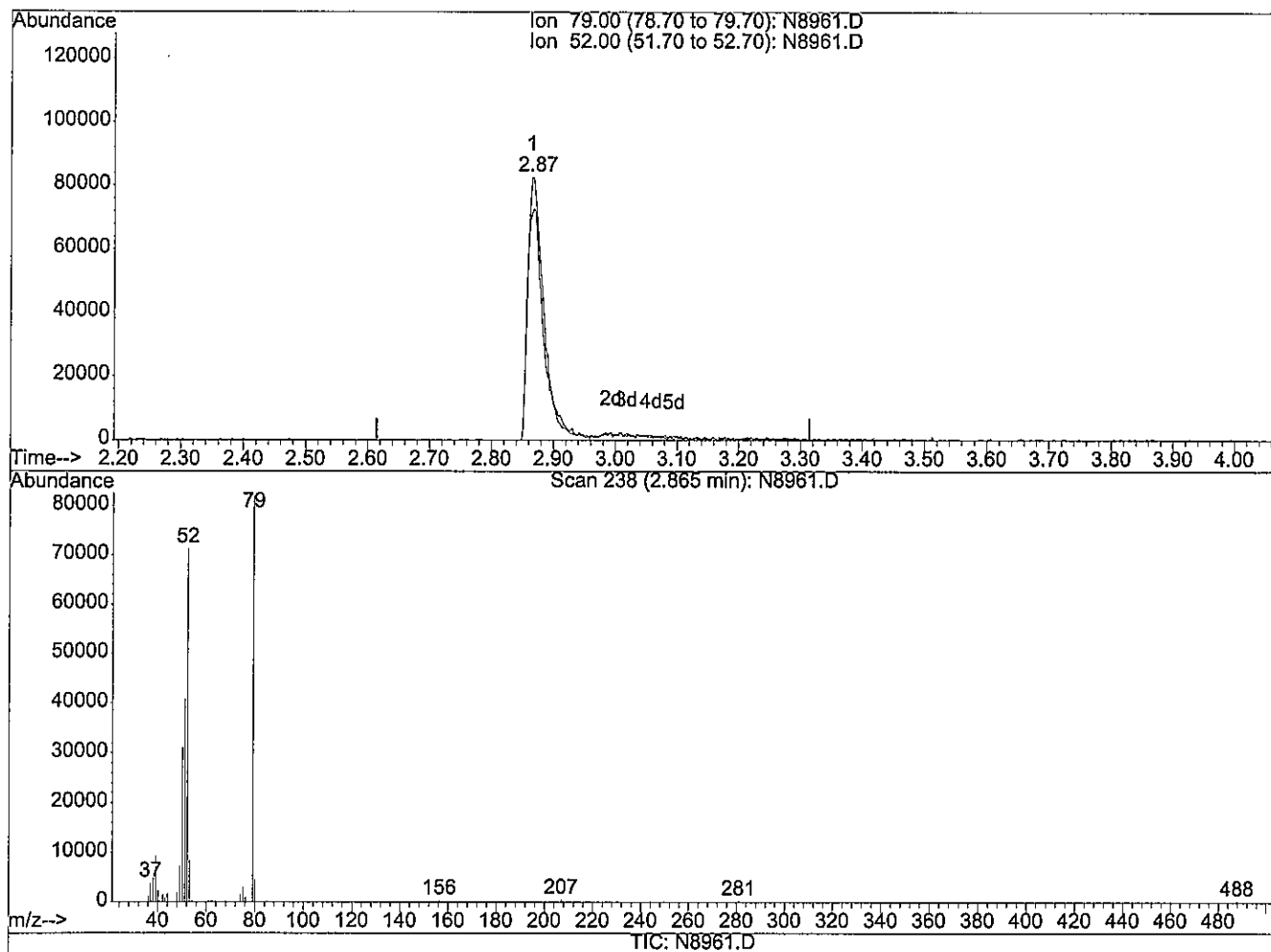
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:50:25 2013

Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 9.51ng/uL

response 151711

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	87.14
0.00	0.00	0.00
0.00	0.00	0.00

3.62

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8961.D

Vial: 5

Acq On : 23 Dec 2013 13:20

Operator: jk SOP 50

Sample : ICALSVSTD010

Inst : GC/MS Ins

Misc : ST130926-7

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 13:51 2013

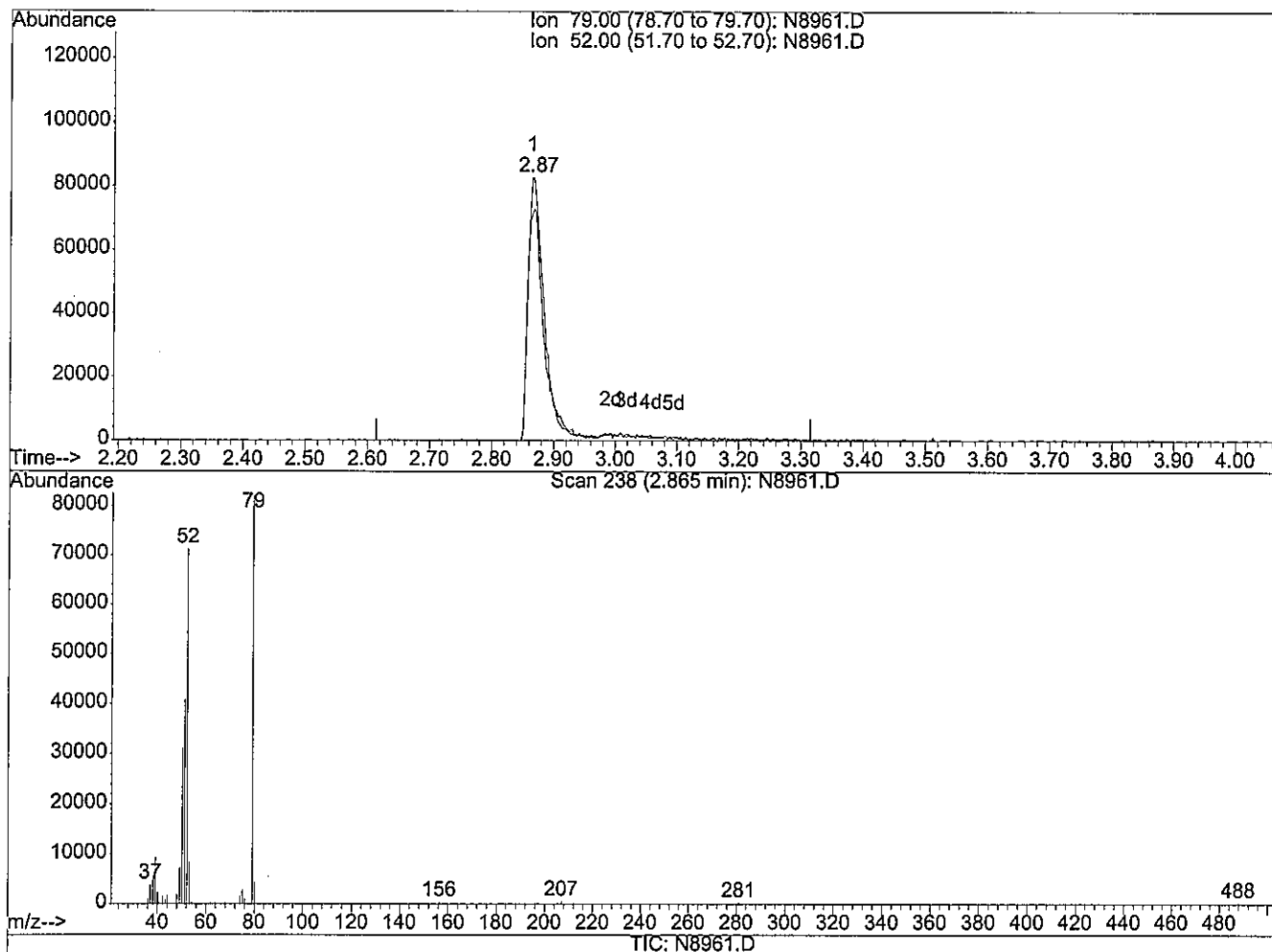
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 13:50:25 2013

Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 10.46ng/uL m

response 166894

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	79.21
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

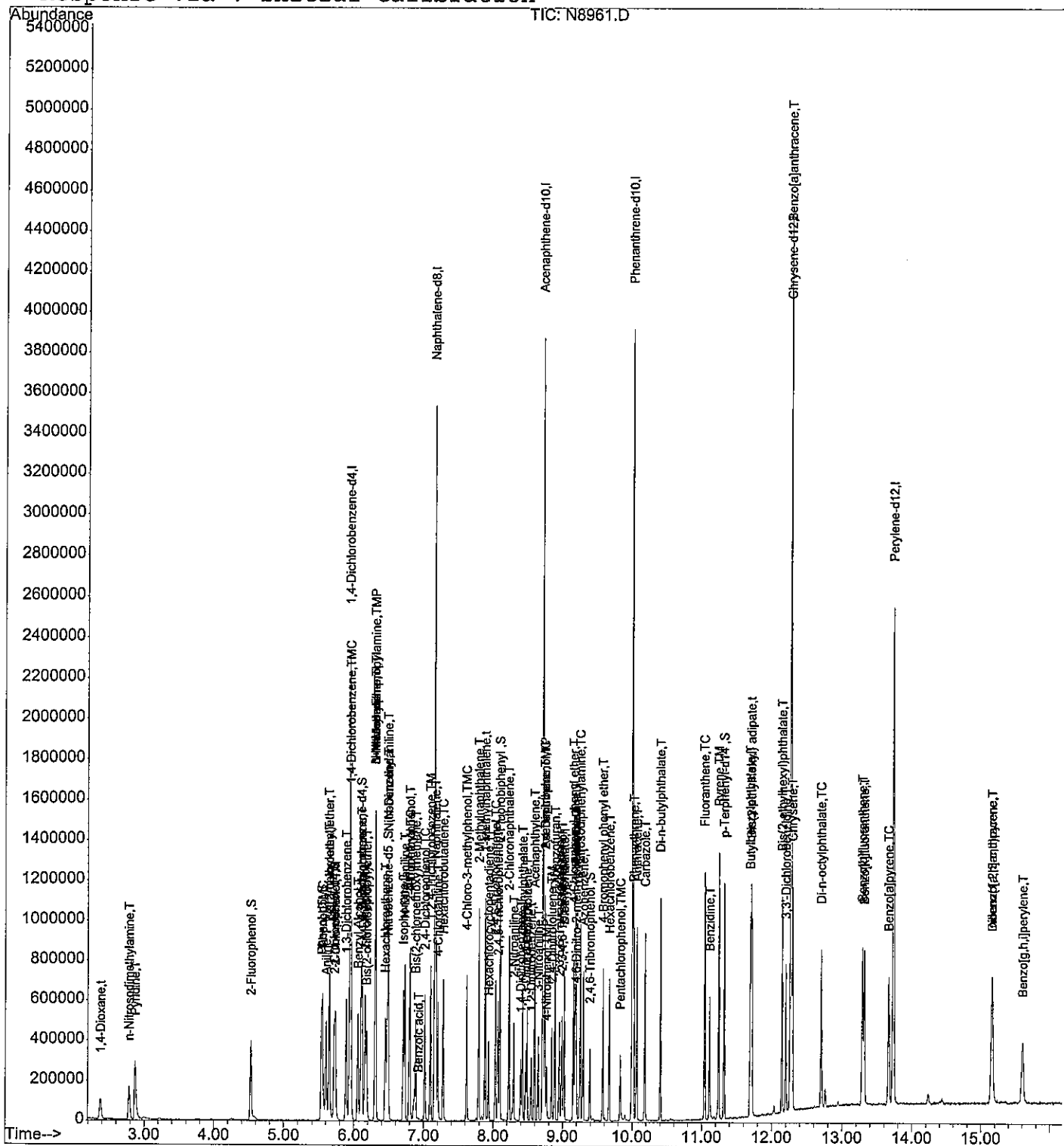
Quantitation Report

Data File : D:\HPCHEM\1\DATA\122313\N8961.D
Acq On : 23 Dec 2013 13:20
Sample : ICALSVSTD010
Misc : ST130926-7
MS Integration Params: RTEINT.P
Quant Time: Dec 23 13:51 2013

Vial: 5
Operator: jk SOP 506
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 122313S1.RES

```
Method       : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
Title        : GC-MS Semivolatiles      SOP no. 506
Last Update   : Mon Dec 23 13:50:25 2013
Response via  : Initial Calibration
```



Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 506 Rev

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:36 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	400247	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1499514	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	768865	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1349590	40.00	ng/uL	0.00
80) Chrysene-d12	12.28	240	1376452	40.00	ng/uL	0.00
91) Perylene-d12	13.73	264	1074182	40.00	ng/uL	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	289243	20.81	ng/uL	0.00
Spiked Amount 75.000	Range 46 - 105		Recovery =	27.75%#		
6) 2-Chlorophenol-d4	5.72	132	273101	20.56	ng/uL	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery =	27.41%#		
8) Phenol-d5	5.54	99	355077m	21.37	ng/uL	0.00
Spiked Amount 75.000	Range 50 - 109		Recovery =	28.49%#		
15) 1,2-Dichlorobenzene-d4	6.10	152	207401	19.48	ng/uL	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery =	38.96%		
25) Nitrobenzene-d5	6.47	82	260974	20.08	ng/uL	0.00
Spiked Amount 50.000	Range 53 - 111		Recovery =	40.16%#		
46) 2-Fluorobiphenyl	8.10	172	541416	19.83	ng/uL	0.00
Spiked Amount 50.000	Range 55 - 108		Recovery =	39.66%#		
68) 2,4,6-Tribromophenol	9.39	330	58299	19.10	ng/uL	0.00
Spiked Amount 75.000	Range 42 - 117		Recovery =	25.47%#		
83) p-Terphenyl-d14	11.32	244	610691	19.62	ng/uL	0.00
Spiked Amount 50.000	Range 34 - 139		Recovery =	39.24%		

Target Compounds

					Qvalue
2) 1,4-Dioxane	2.38	88	133029m	20.67	ng/uL
3) n-Nitrosodimethylamine	2.79	74	200503m	21.45	ng/uL
4) Pyridine	2.87	79	333506m	22.09	ng/uL
7) Aniline	5.60	93	398975	21.48	ng/uL
9) Phenol	5.55	94	339200	20.65	ng/uL
10) Tetramethylurea	5.66	72	435532	20.89	ng/uL
11) Bis(2-chloroethyl) ether	5.64	93	284237	21.59	ng/uL
12) 2-Chlorophenol	5.74	128	292297	21.49	ng/uL
13) 1,3-Dichlorobenzene	5.89	146	324649	21.13	ng/uL
14) 1,4-Dichlorobenzene	5.96	146	303690	21.40	ng/uL
16) 1,2-Dichlorobenzene	6.12	146	286247	21.40	ng/uL
17) Benzyl Alcohol	6.06	108	182572	21.88	ng/uL
18) 2-Methylphenol	6.16	107	226126	21.34	ng/uL
19) Bis(2-chloroisopropyl) ether	6.18	45	415544	21.46	ng/uL
20) n-Nitroso-di-n-propylamine	6.31	70	190217	21.47	ng/uL
21) 3+4-Methylphenol	6.31	108	275539	21.36	ng/uL

(#)= qualifier out of range (m) = manual integration

N8962.D 122313S1.M Mon Dec 23 14:36:38 2013

jk

12-21-13

Page 1

90 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 506 Rev

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:36 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.31	106	387470	20.82	ng/uL	94
23) Hexachloroethane	6.45	117	125147	21.47	ng/uL	99
26) N,N-Dimethylaniline	6.49	120	398144	20.69	ng/uL	95
27) Nitrobenzene	6.49	77	358240	21.07	ng/uL	98
28) Isophorone	6.71	82	490360	21.05	ng/uL	100
29) N-Ethylaniline	6.73	106	473026	20.60	ng/uL	98
30) 2-Nitrophenol	6.79	139	135082	21.53	ng/uL	97
31) 2,4-Dimethylphenol	6.81	107	265443	21.12	ng/uL	97
32) Bis(2-chloroethoxy)methane	6.88	93	298858	21.01	ng/uL	98
33) Benzoic acid	6.88	105	97037m	18.05	ng/uL	
34) 2,4-Dichlorophenol	7.02	162	226788	21.05	ng/uL	99
35) 1,2,4-Trichlorobenzene	7.10	180	263132	20.65	ng/uL	100
36) Naphthalene	7.18	128	732729	20.83	ng/uL#	99
37) 4-Chloroaniline	7.21	127	295122m	21.32	ng/uL	
38) Hexachlorobutadiene	7.28	225	156936	20.85	ng/uL	98
39) 4-Chloro-3-methylphenol	7.62	107	236980	21.32	ng/uL	98
40) 2-Methylnaphthalene	7.79	142	527761	21.10	ng/uL	99
42) 1-Methylnaphthalene	7.88	142	504301	20.67	ng/uL	98
43) Hexachlorocyclopentadiene	7.93	237	115604	21.27	ng/uL	98
44) 2,4,6-Trichlorophenol	8.03	196	165119	21.49	ng/uL	99
45) 2,4,5-Trichlorophenol	8.07	196	161551	21.21	ng/uL	99
47) 2-Chloronaphthalene	8.23	162	479023	20.79	ng/uL	99
48) 2-Nitroaniline	8.30	65	127800	21.52	ng/uL	98
49) 1,4-Dinitrobenzene	8.40	168	64652	21.56	ng/uL	97
50) Dimethylphthalate	8.43	163	473964	20.34	ng/uL	100
51) 1,3-Dinitrobenzene	8.47	168	78669	21.48	ng/uL	91
52) 2,6-Dinitrotoluene	8.49	165	110735	21.22	ng/uL	98
53) 1,2-Dinitrobenzene	8.55	168	52820	20.54	ng/uL	96
54) Acenaphthylene	8.60	152	719089	20.76	ng/uL	99
55) 3-Nitroaniline	8.65	138	103127	20.63	ng/uL	98
56) Acenaphthene	8.74	154	417468	20.77	ng/uL	98
57) 2,4-Dinitrophenol	8.73	184	32568	16.04	ng/uL#	1
58) 4-Nitrophenol	8.77	109	43918	17.64	ng/uL	96
59) Dibenzofuran	8.89	168	628699	20.81	ng/uL	98
60) 2,4-Dinitrotoluene	8.84	165	128087	20.55	ng/uL	96
61) 2,3,5,6-Tetrachlorophenol	8.95	232	115771	19.96	ng/uL	98
62) 2,3,4,6-Tetrachlorophenol	8.99	232	128461	20.98	ng/uL	97
63) Diethylphthalate	9.02	149	445396	20.32	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.15	204	270986	20.90	ng/uL	99
65) 4-Nitroaniline	9.18	138	90590	20.62	ng/uL	97
66) Fluorene	9.19	166	467888	20.55	ng/uL	99

(#)=qualifier out of range (m)=manual integration

N8962.D 122313S1.M Mon Dec 23 14:36:38 2013

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 506 Rev

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:36 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.29	77	433884	20.59	ng/uL	99
70) 4,6-Dinitro-2-methylphenol	9.20	198	61143	18.88	ng/uL	96
71) n-Nitrosodiphenylamine	9.25	169	403616	20.68	ng/uL	99
72) 4-Bromophenyl phenyl ether	9.58	248	162285	21.25	ng/uL	98
73) Hexachlorobenzene	9.67	284	153087	21.02	ng/uL	99
74) Pentachlorophenol	9.83	266	83789m	19.38	ng/uL	
75) Phenanthrene	10.02	178	653440	21.05	ng/uL	100
76) Anthracene	10.06	178	685654	21.32	ng/uL	99
77) Carbazole	10.18	167	655705	21.09	ng/uL	99
78) Di-n-butylphthalate	10.40	149	879218	21.36	ng/uL	99
79) Fluoranthene	11.04	202	954520	21.41	ng/uL	99
81) Benzidine	11.11	184	415111	18.88	ng/uL	99
82) Pyrene	11.25	202	929141	20.21	ng/uL	99
84) Butylbenzylphthalate	11.69	149	374034	20.85	ng/uL	98
85) Bis(2-ethylhexyl) adipate	11.71	129	280322	20.58	ng/uL	95
86) Bis(2-ethylhexyl)phthalate	12.15	149	477050	20.75	ng/uL	99
87) 3,3'-Dichlorobenzidine	12.20	252	255177	19.92	ng/uL	98
88) Benzo[a]anthracene	12.27	228	809524	20.63	ng/uL	99
89) Chrysene	12.30	228	708209	20.75	ng/uL	99
90) Di-n-octylphthalate	12.70	149	713291	21.18	ng/uL	98
92) Benzo[b]fluoranthene	13.29	252	681833	20.21	ng/uL	100
93) Benzo[k]fluoranthene	13.32	252	673773	21.51	ng/uL	99
94) Benzo[a]pyrene	13.67	252	624632	21.06	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.17	276	498946	19.97	ng/uL	99
96) Dibenzo[a,h]anthracene	15.16	278	435771	20.45	ng/uL	99
97) Benzo[g,h,i]perylene	15.61	276	410386	19.61	ng/uL	99

(#) = qualifier out of range (m) = manual integration

N8962.D 122313S1.M Mon Dec 23 14:36:39 2013

Page 3

92 of 211

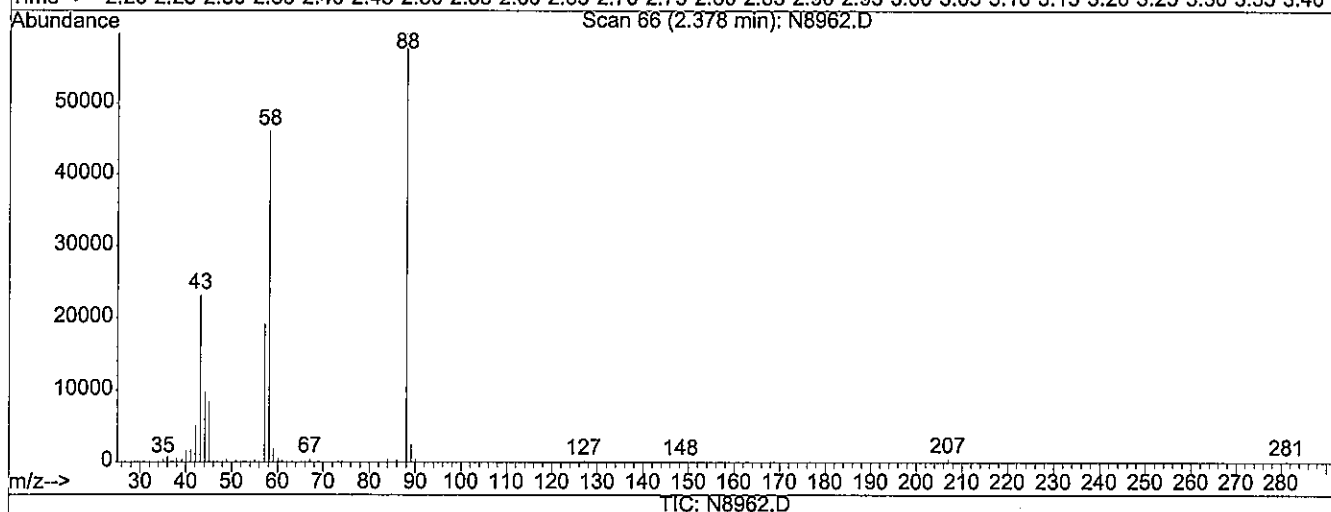
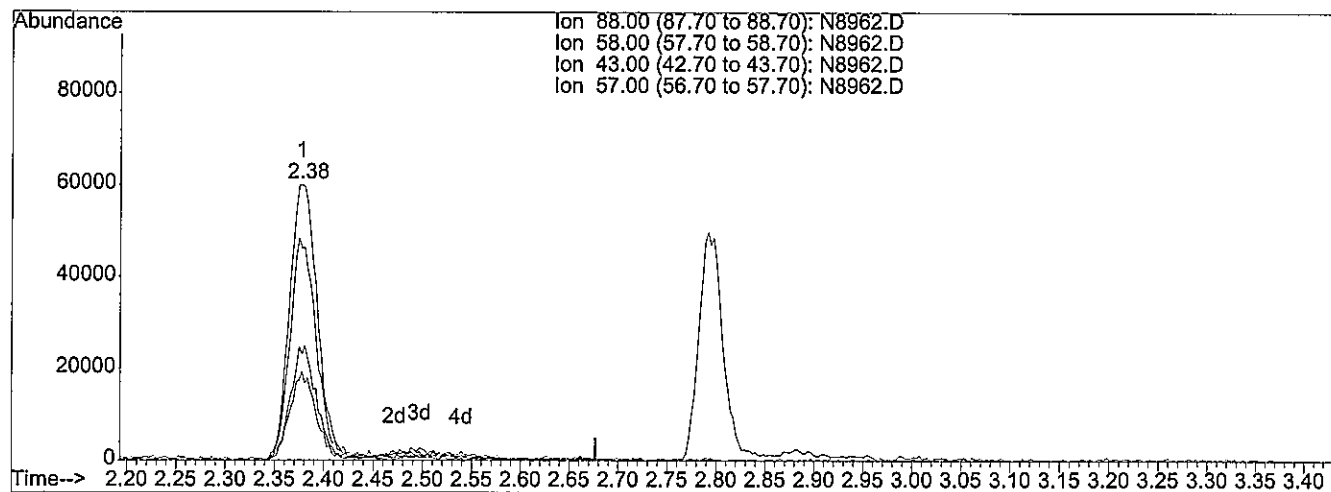
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D
 Acq On : 23 Dec 2013 13:44
 Sample : ICALSVSTD020
 Misc : ST130926-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 14:34 2013

Vial: 6
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 14:34:21 2013
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 18.47ng/uL

response 118881

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	76.23
43.00	35.60	38.95
57.00	27.90	30.01

3c for

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 50

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:34 2013

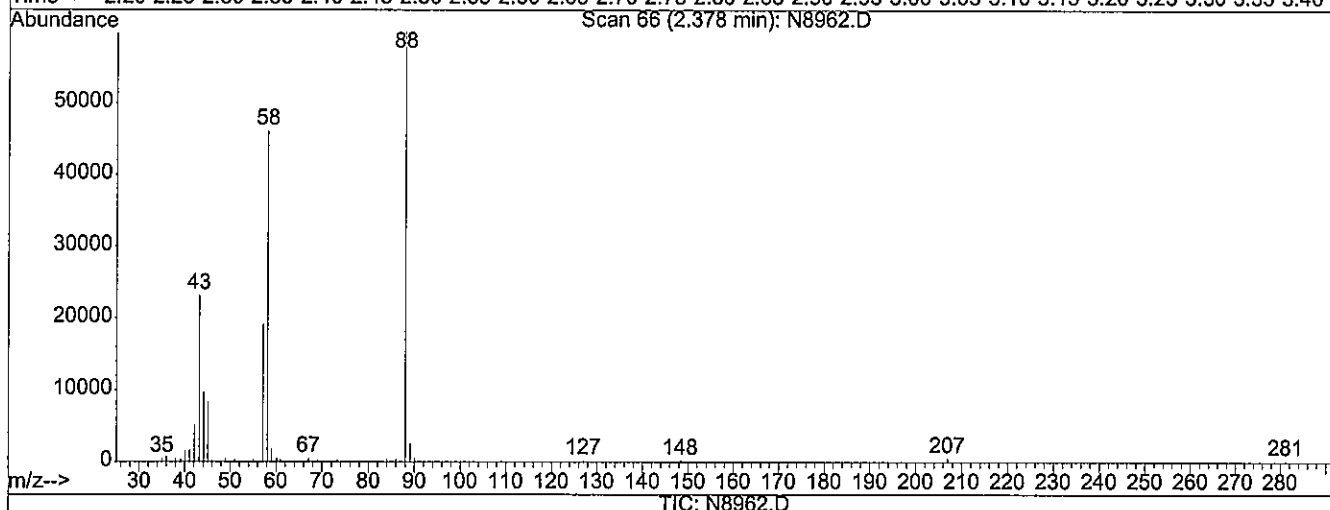
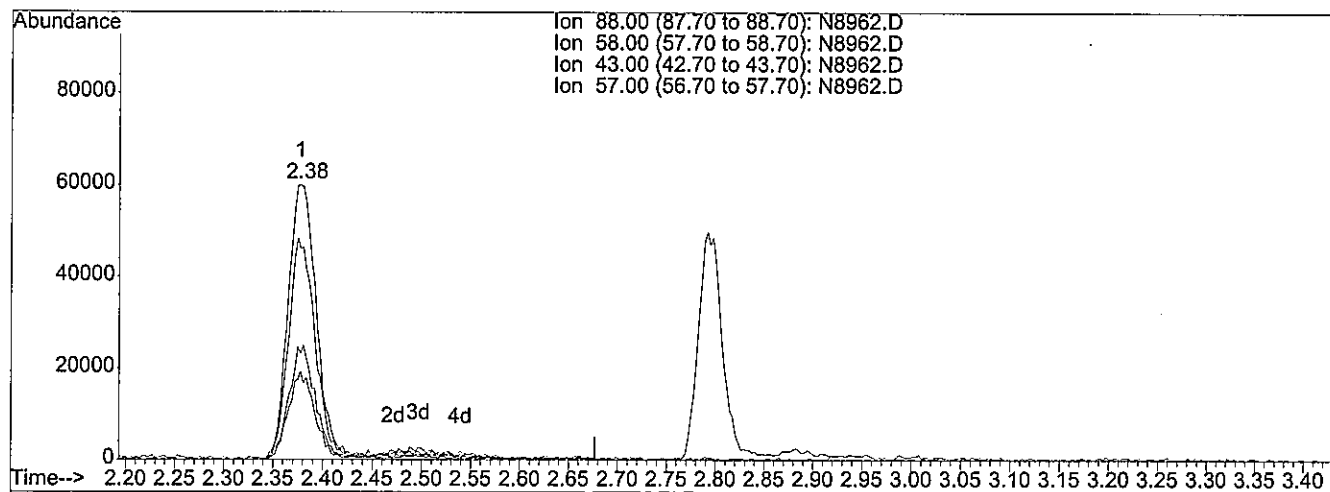
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 20.67ng/uL m

response 133029

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	68.12
43.00	35.60	34.81
57.00	27.90	26.81

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 50

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:34 2013

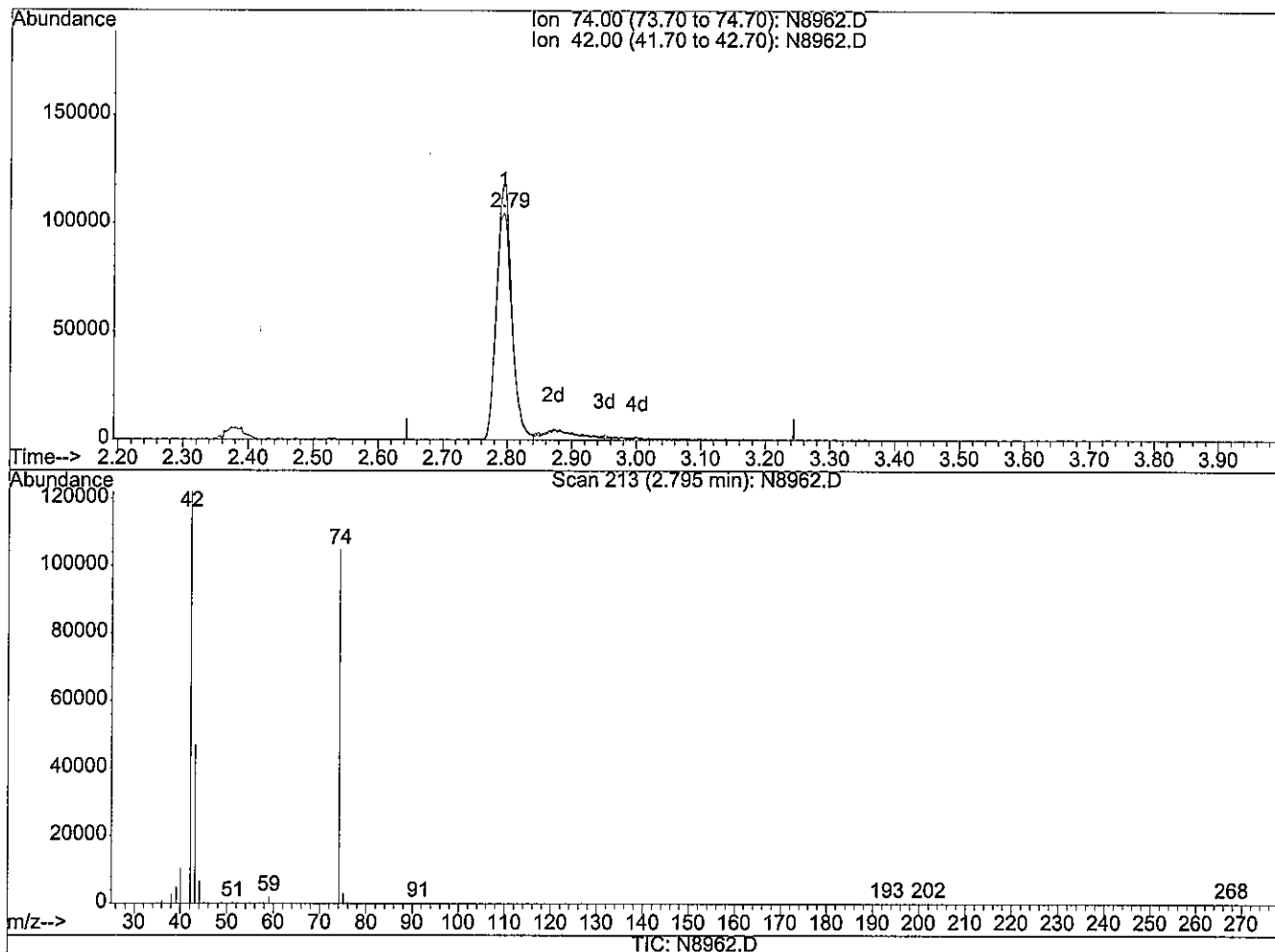
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 18.96ng/uL

response 177262

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	109.48
0.00	0.00	0.00
0.00	0.00	0.00

Sefer

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 50

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:34 2013

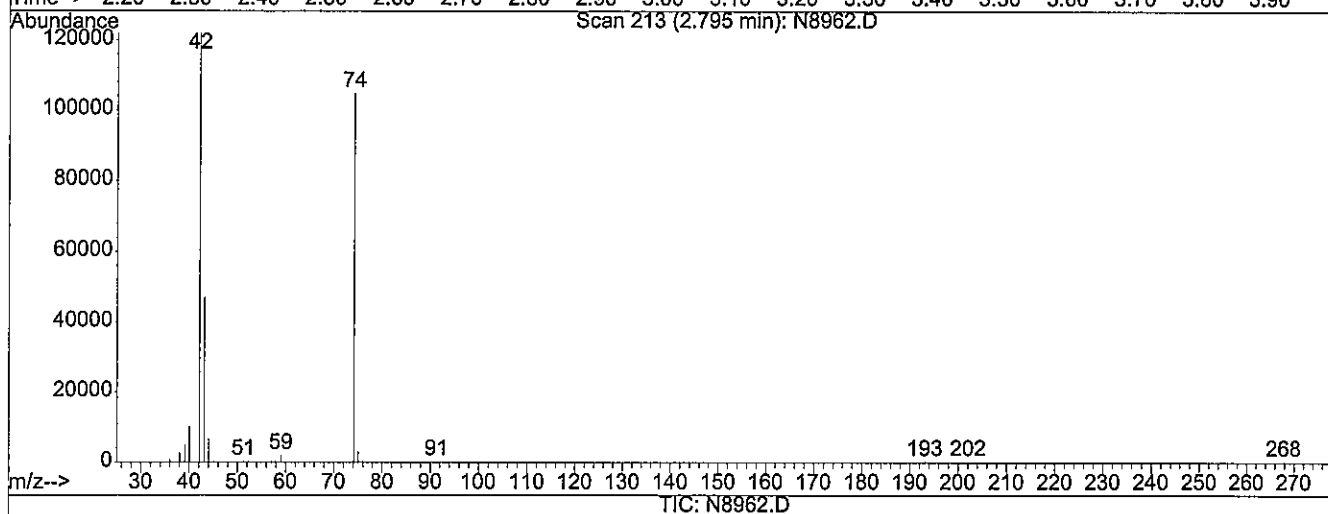
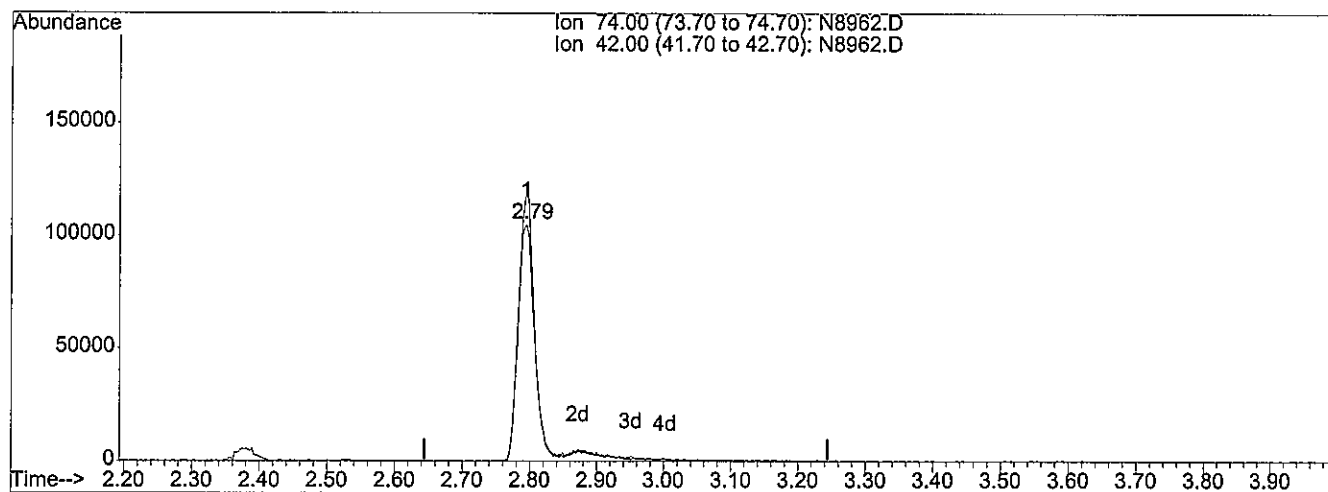
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 21.45ng/uL m

response 200503

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	96.79
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-11-13 *[Signature]*

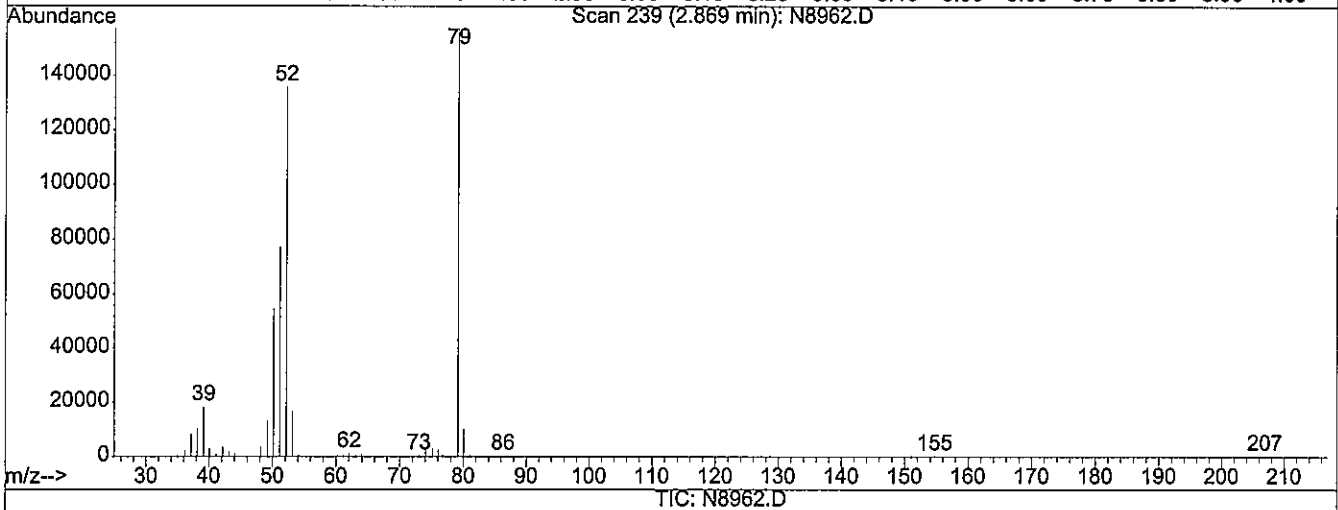
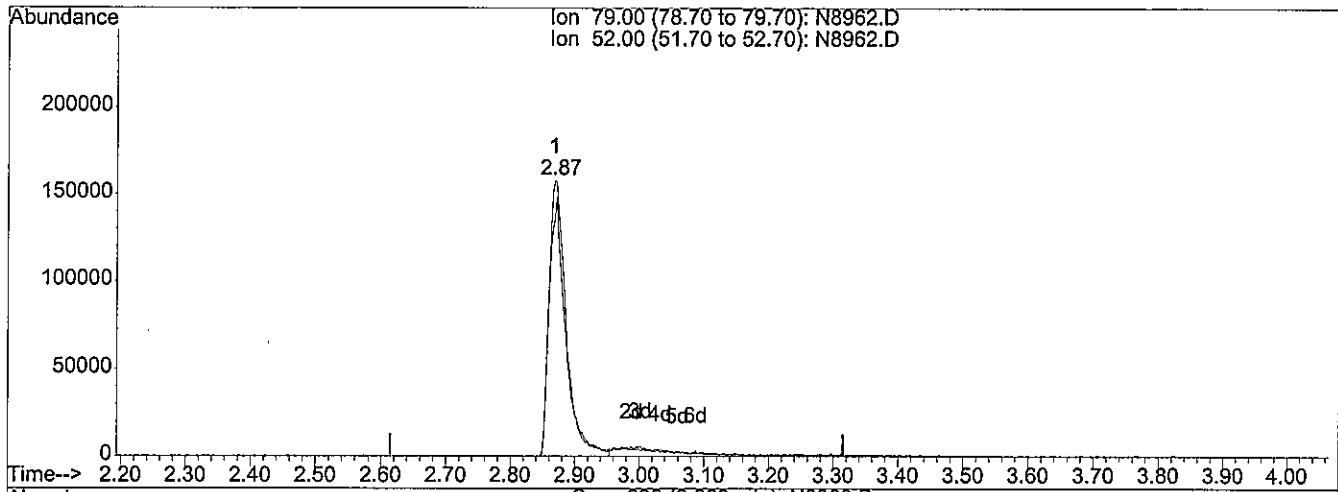
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Data File : D:\HPCHEM\1\DATA\122313\N8962.D
 Acq On : 23 Dec 2013 13:44
 Sample : ICALSVSTD020
 Misc : ST130926-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 14:34 2013

Vial: 6
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 14:34:21 2013
 Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 19.60ng/uL

response 295837

lon	Exp%	Act%
79.00	100	100
52.00	79.80	89.02
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other

initials _____ date _____

JK 12-26-13

before

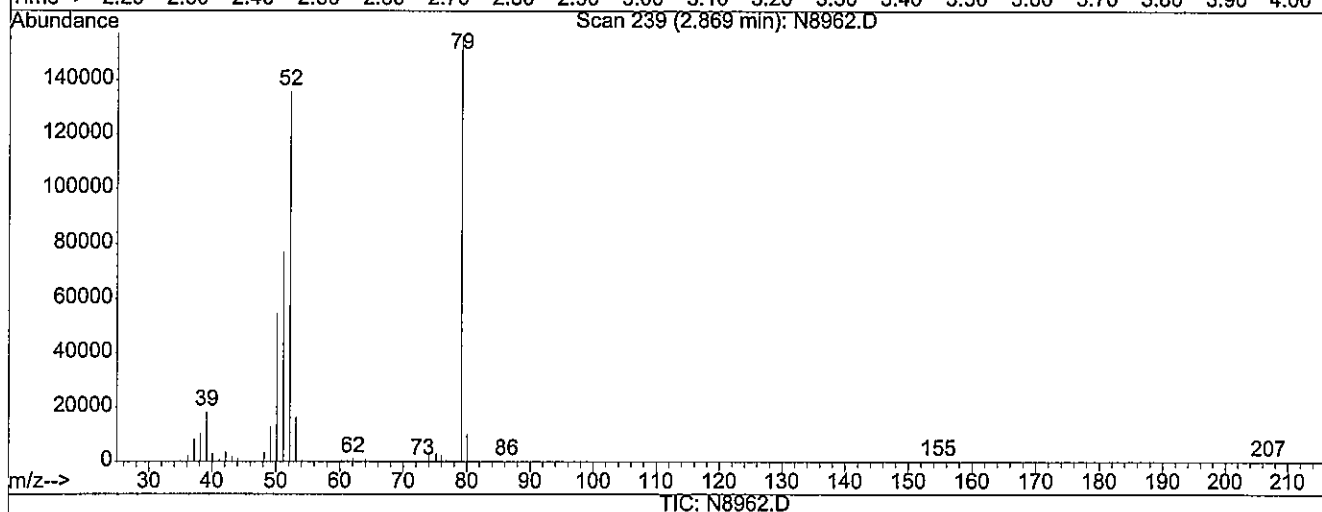
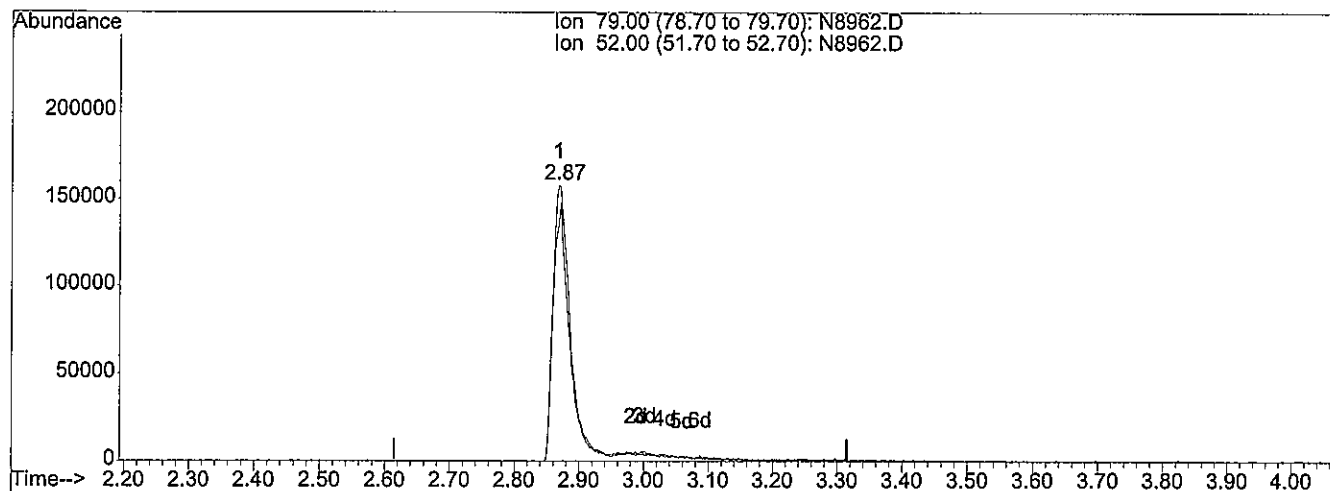
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D
 Acq On : 23 Dec 2013 13:44
 Sample : ICALSVSTD020
 Misc : ST130926-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 14:35 2013

Vial: 6
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 14:34:21 2013
 Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 22.09ng/uL m

response 333506

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	78.96
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 50

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:35 2013

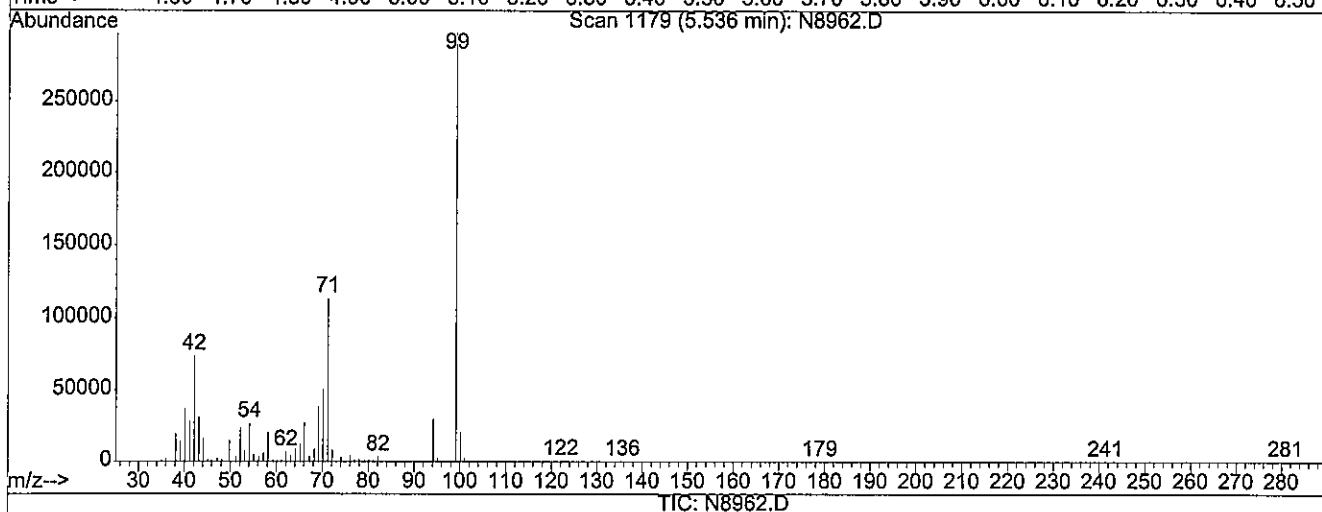
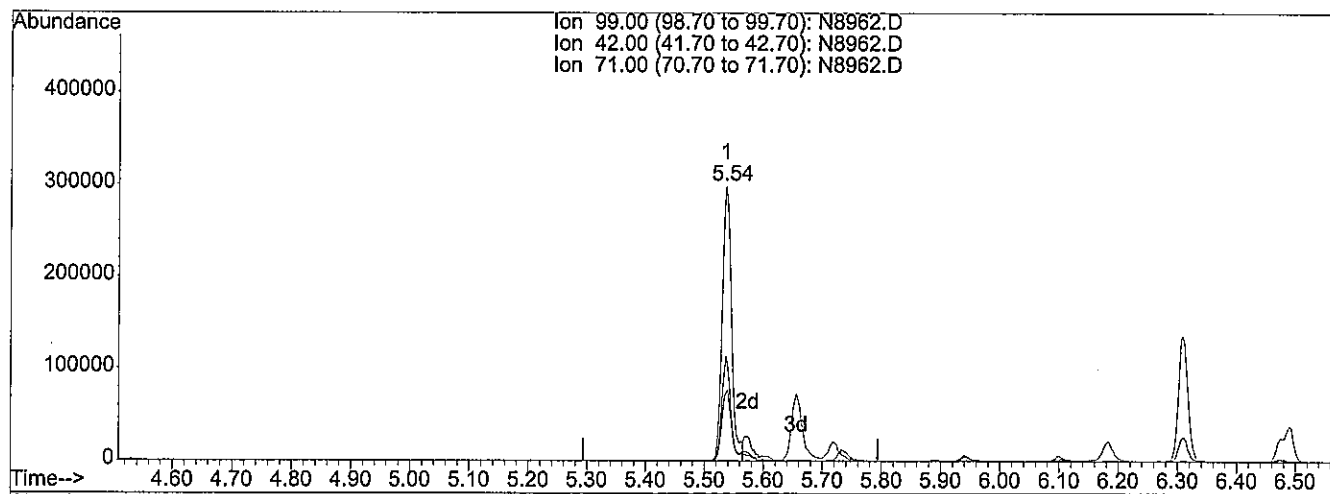
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Multiple Level Calibration



(8) Phenol-d5 (S)

5.54min 19.68ng/uL

response 326992

Ion	Exp%	Act%
99.00	100	100
42.00	24.60	28.85
71.00	34.40	35.46
0.00	0.00	0.00

306

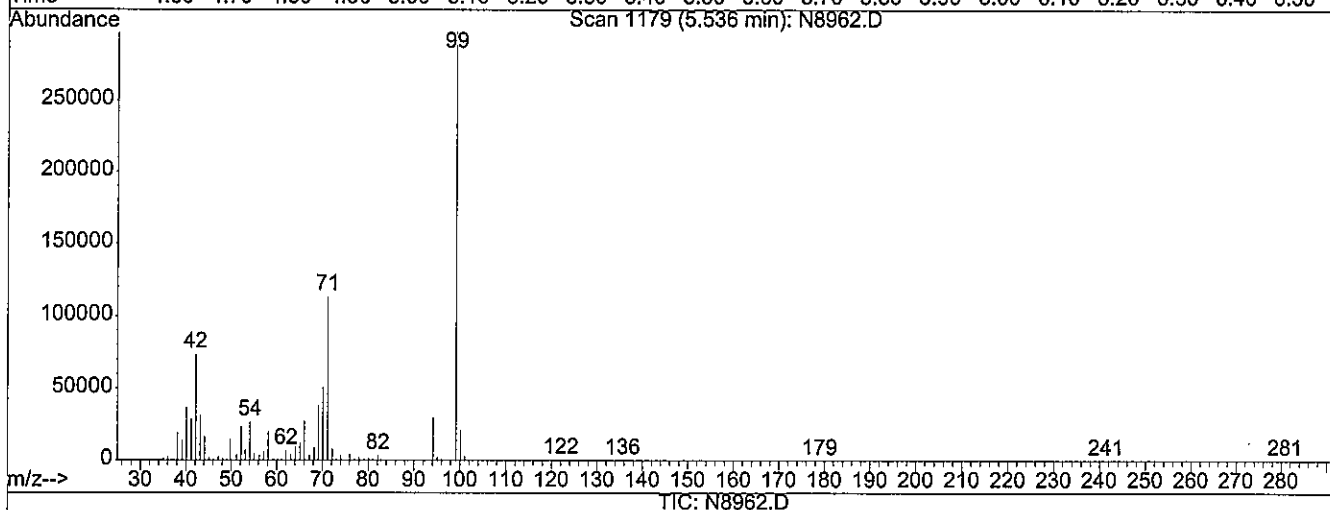
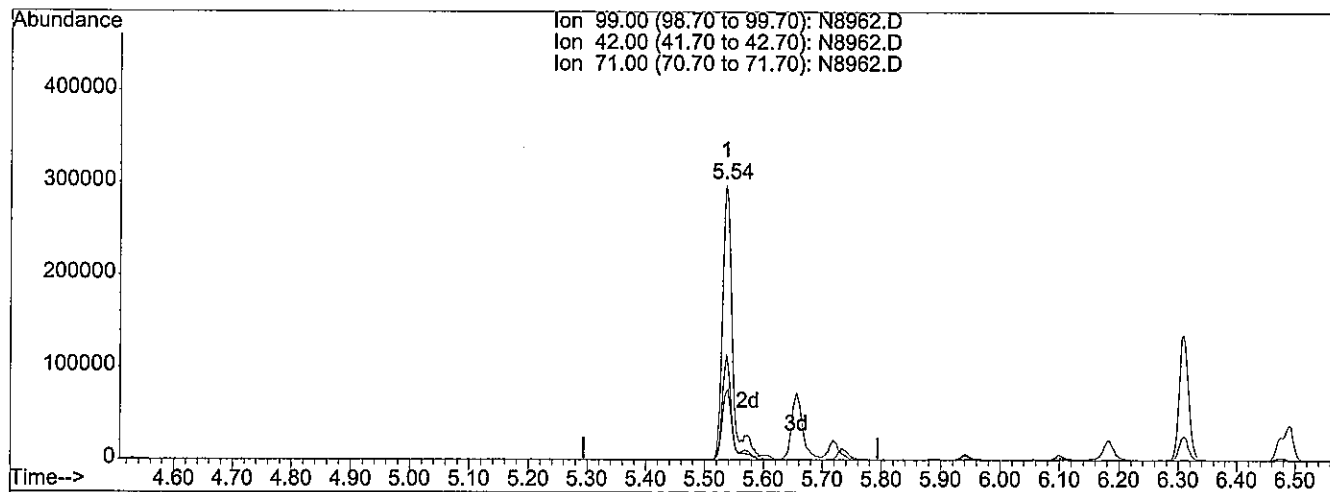
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D
 Acq On : 23 Dec 2013 13:44
 Sample : ICALSVSTD020
 Misc : ST130926-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 14:35 2013

Vial: 6
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 14:34:21 2013
 Response via : Multiple Level Calibration



(8) Phenol-d5 (S)

5.54min 21.37ng/uL m

response 355077

Ion	Exp%	Act%
99.00	100	100
42.00	24.60	26.57
71.00	34.40	32.66
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 50

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:35 2013

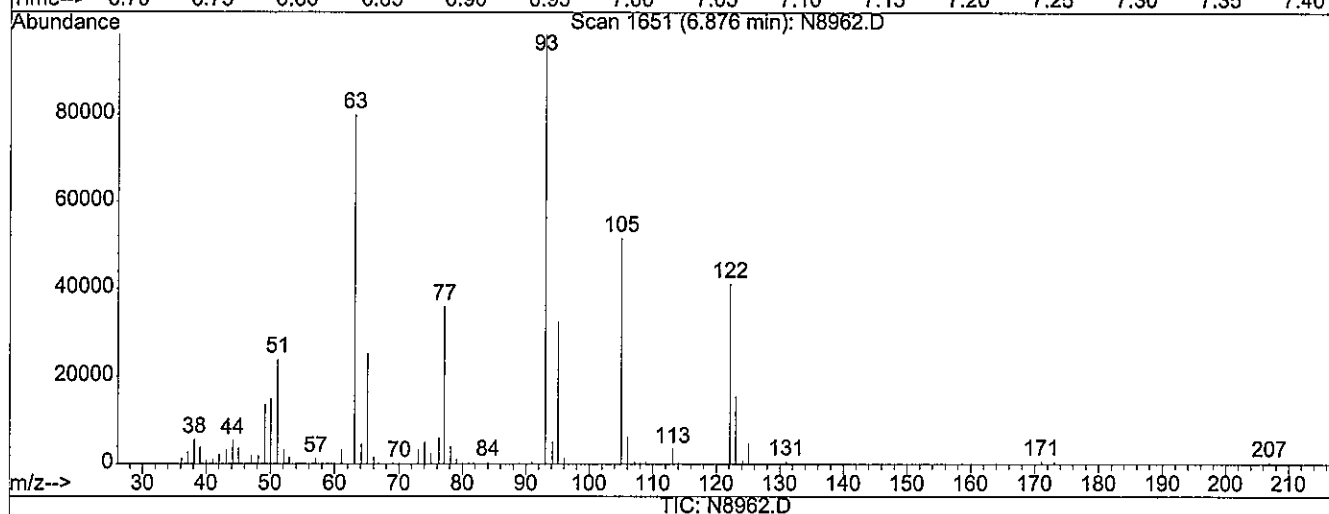
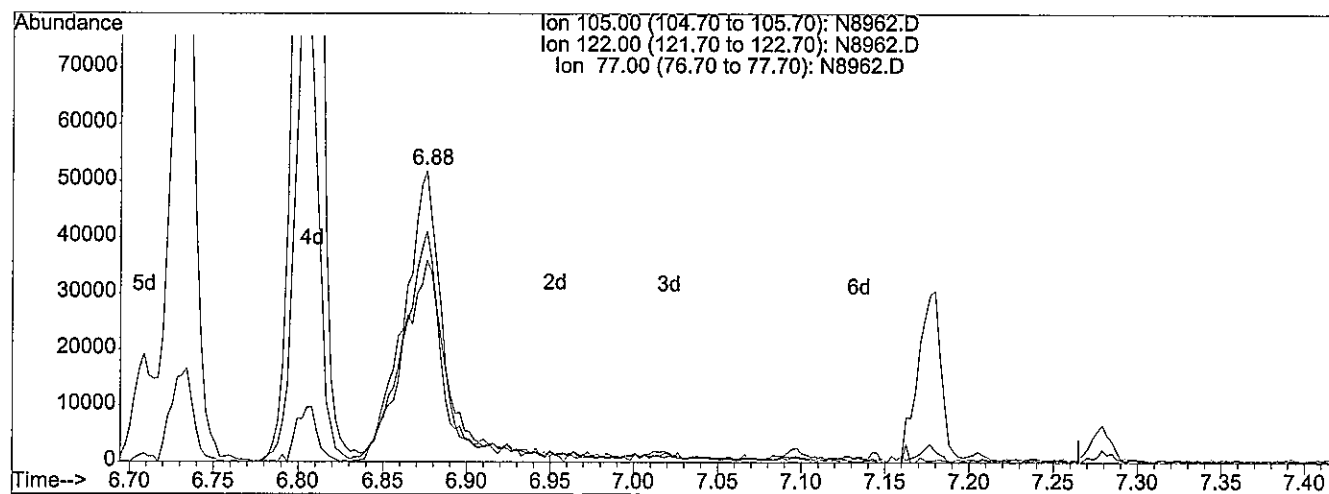
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.88min 16.38ng/uL

response 88077

Ion	Exp%	Act%
105.00	100	100
122.00	74.60	80.23
77.00	71.30	68.47
0.00	0.00	0.00

3efor

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 50

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:35 2013

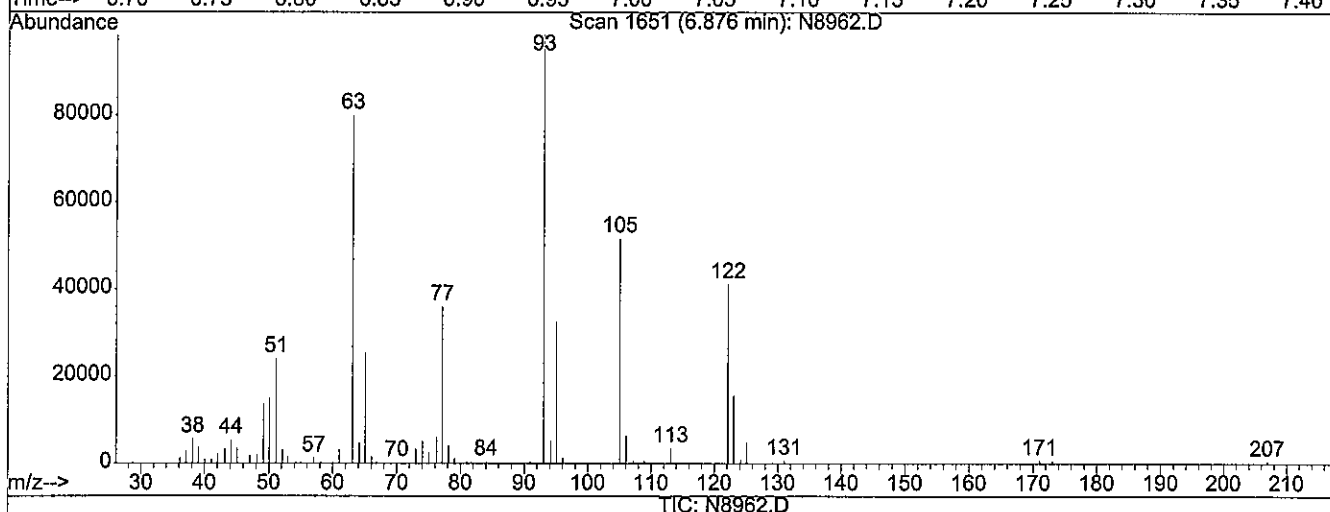
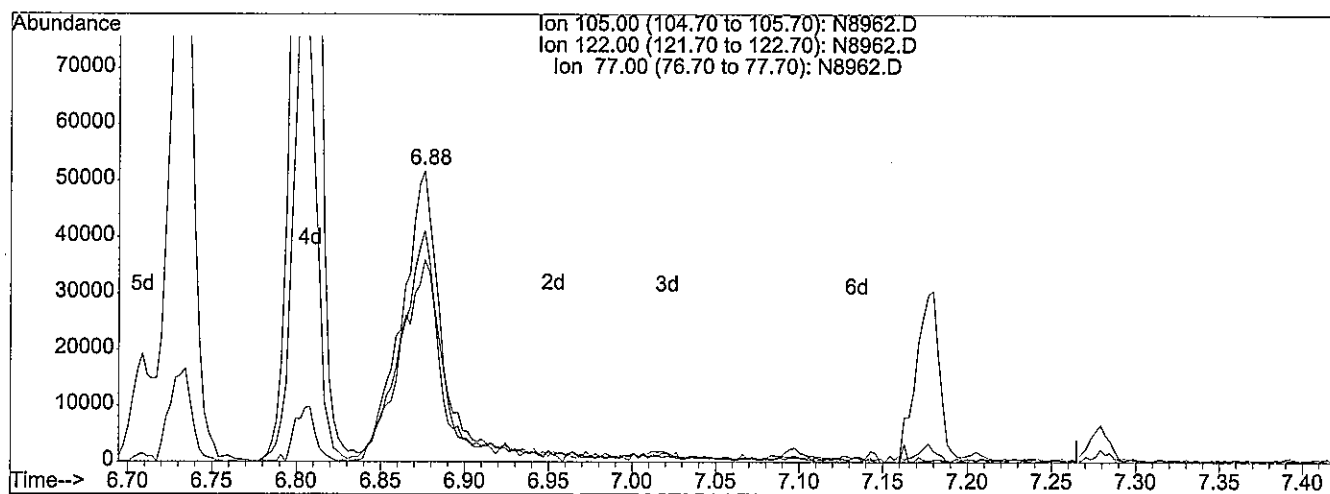
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.88min 18.05ng/uL m

response 97037

Ion	Exp%	Act%
105.00	100	100
122.00	74.60	72.82
77.00	71.30	62.15
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-26-13

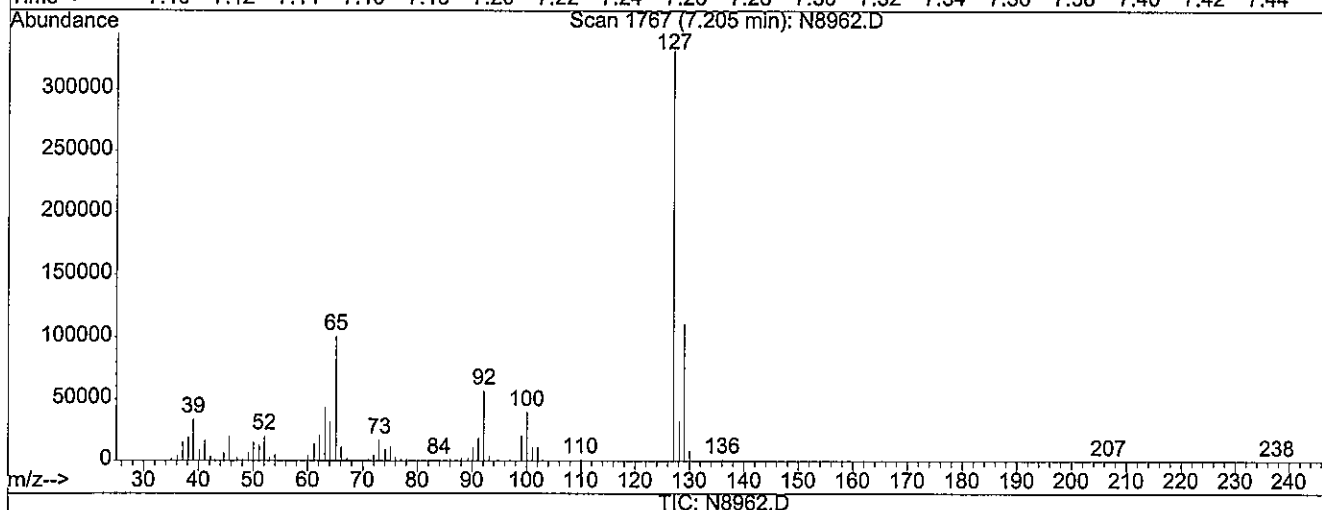
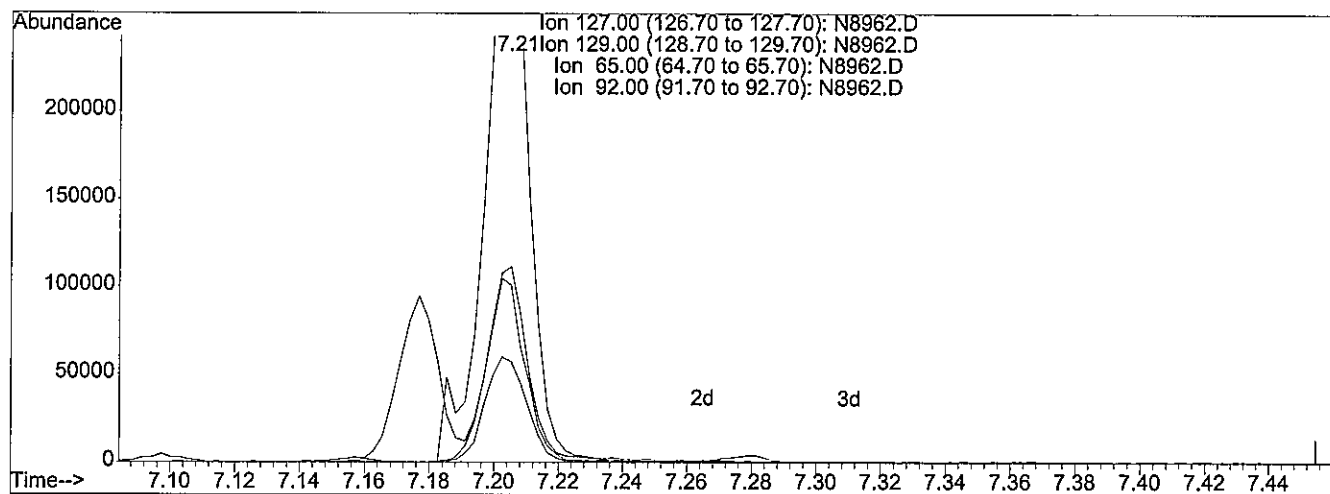
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8962.D
 Acq On : 23 Dec 2013 13:44
 Sample : ICALSVSTD020
 Misc : ST130926-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 14:35 2013

Vial: 6
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 14:34:21 2013
 Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 22.21ng/uL

response 307409

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	31.40
65.00	29.50	28.60
92.00	18.50	17.59

3c for

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Acq On : 23 Dec 2013 13:44

Sample : ICALSVSTD020

Misc : ST130926-8

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:35 2013

Vial: 6

Operator: jk SOP 50

Inst : GC/MS Ins

Multiplr: 1.00

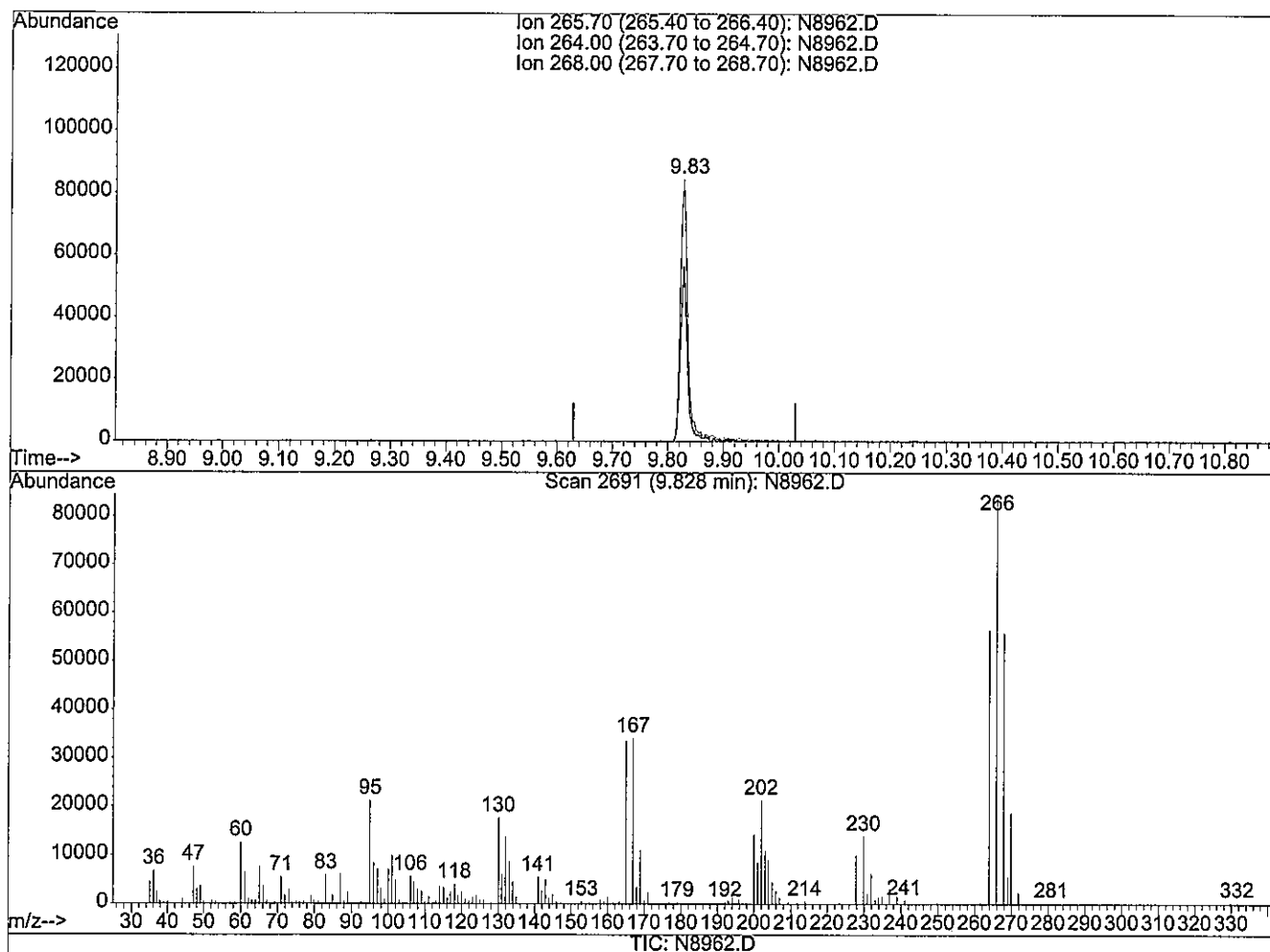
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 18.39ng/uL

response 79509

Ion	Exp%	Act%
265.70	100	100
264.00	62.70	61.98
268.00	63.40	61.22
0.00	0.00	0.00

304

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Acq On : 23 Dec 2013 13:44

Sample : ICALSVSTD020

Misc : ST130926-8

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:36 2013

Vial: 6

Operator: jk SOP 50

Inst : GC/MS Ins

Multiplr: 1.00

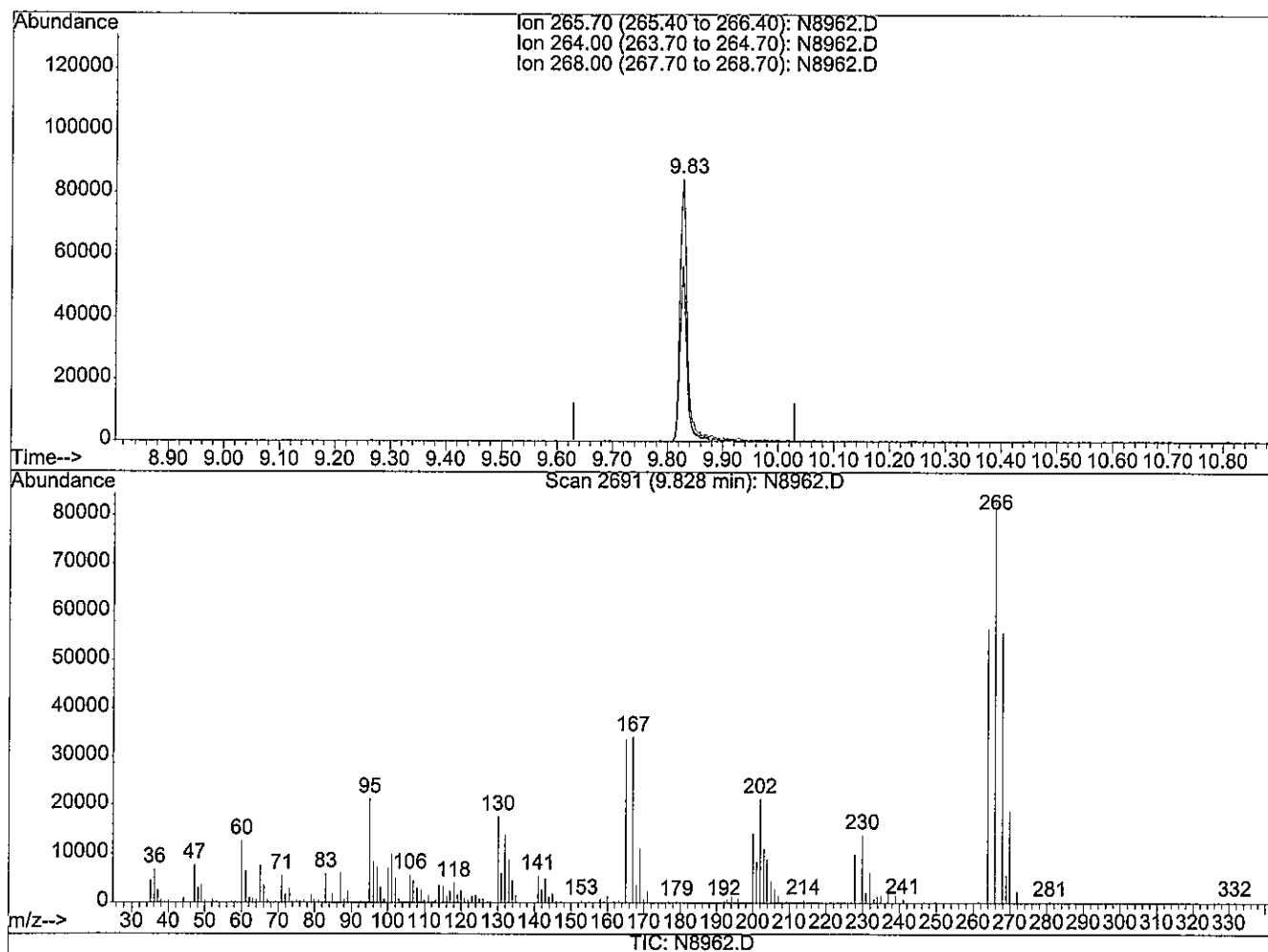
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 19.38ng/uL m

response 83789

Ion	Exp%	Act%
265.70	100	100
264.00	62.70	58.82
268.00	63.40	58.09
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

Quantitation Report

Data File : D:\HPCHEM\1\DATA\122313\N8962.D

Vial: 6

Acq On : 23 Dec 2013 13:44

Operator: jk SOP 506

Sample : ICALSVSTD020

Inst : GC/MS Ins

Misc : ST130926-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:36 2013

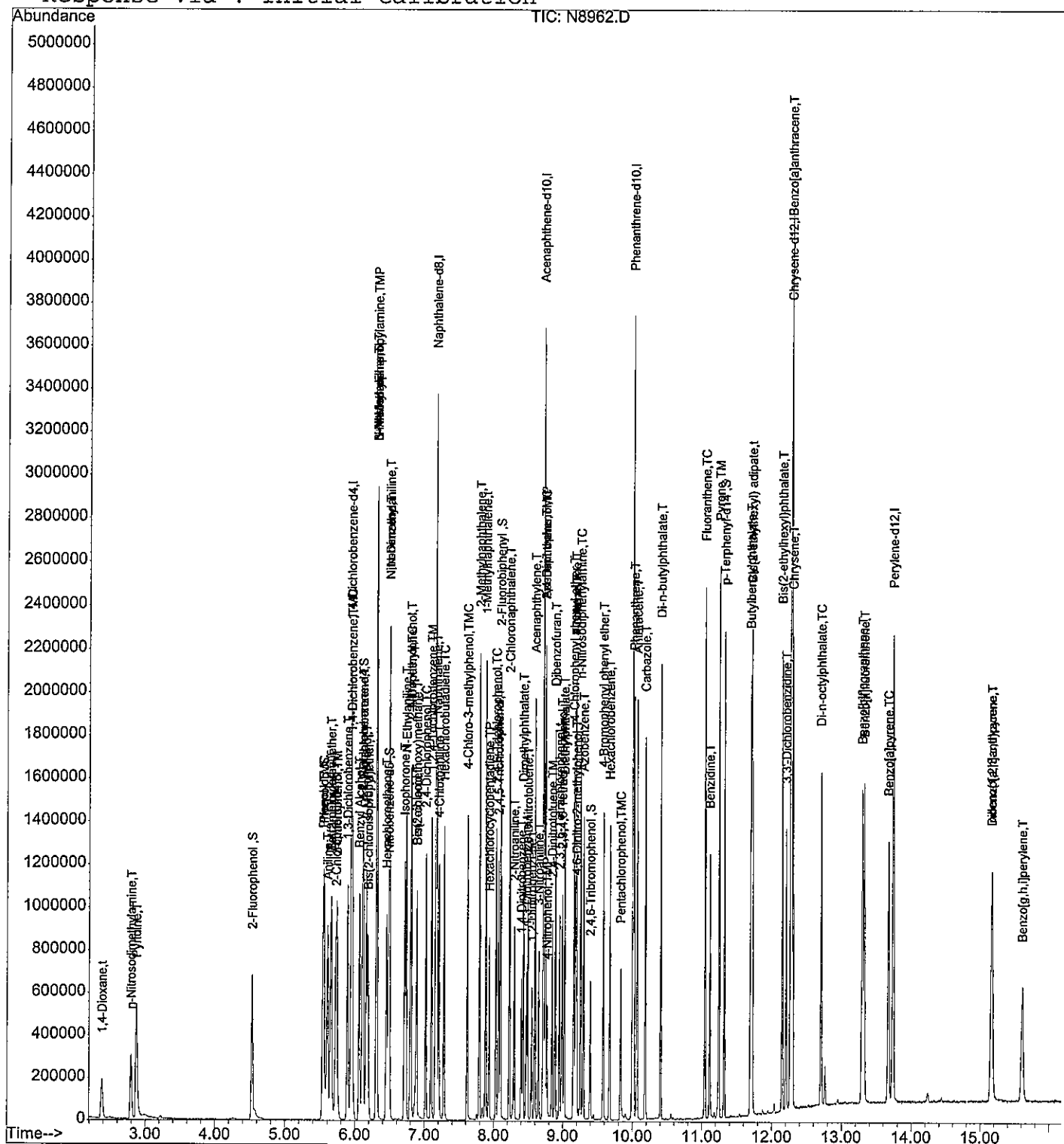
Quant Results File: 122313S1.RES

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:34:21 2013

Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 506 Rev

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:41 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	408068	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1552903	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	809719	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1519310	40.00	ng/uL	0.00
80) Chrysene-d12	12.28	240	1453106	40.00	ng/uL	0.00
91) Perylene-d12	13.74	264	1133055	40.00	ng/uL	0.01

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	592775	41.46	ng/uL	0.00
Spiked Amount 75.000	Range 46 - 105		Recovery =	55.28%		
6) 2-Chlorophenol-d4	5.72	132	539643	39.88	ng/uL	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery =	53.17%		
8) Phenol-d5	5.54	99	735020	41.97	ng/uL	0.00
Spiked Amount 75.000	Range 50 - 109		Recovery =	55.96%		
15) 1,2-Dichlorobenzene-d4	6.10	152	389008	36.61	ng/uL	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery =	73.22%		
25) Nitrobenzene-d5	6.48	82	527298	39.34	ng/uL	0.00
Spiked Amount 50.000	Range 53 - 111		Recovery =	78.68%		
46) 2-Fluorobiphenyl	8.10	172	1091377	38.35	ng/uL	0.00
Spiked Amount 50.000	Range 55 - 108		Recovery =	76.70%		
68) 2,4,6-Tribromophenol	9.39	330	131352	40.64	ng/uL	0.00
Spiked Amount 75.000	Range 42 - 117		Recovery =	54.19%		
83) p-Terphenyl-d14	11.32	244	1280496	39.17	ng/uL	0.00
Spiked Amount 50.000	Range 34 - 139		Recovery =	78.34%		

Target Compounds

					Qvalue
2) 1,4-Dioxane	2.37	88	284448m	42.52	ng/uL
3) n-Nitrosodimethylamine	2.79	74	417591m	42.97	ng/uL
4) Pyridine	2.87	79	688047m	43.48	ng/uL
7) Aniline	5.61	93	804913	41.98	ng/uL 99
9) Phenol	5.56	94	691239	41.02	ng/uL 99
10) Tetramethylurea	5.67	72	862625	40.47	ng/uL 100
11) Bis(2-chloroethyl) ether	5.65	93	538445	40.10	ng/uL 98
12) 2-Chlorophenol	5.74	128	559533	40.27	ng/uL 100
13) 1,3-Dichlorobenzene	5.89	146	650933	41.23	ng/uL 99
14) 1,4-Dichlorobenzene	5.96	146	602418	41.30	ng/uL 99
16) 1,2-Dichlorobenzene	6.12	146	553796	40.48	ng/uL 100
17) Benzyl Alcohol	6.06	108	366353	42.41	ng/uL 98
18) 2-Methylphenol	6.16	107	446845	41.08	ng/uL 99
19) Bis(2-chloroisopropyl) ether	6.18	45	807277	40.71	ng/uL 99
20) n-Nitroso-di-n-propylamine	6.31	70	366404	40.45	ng/uL 99
21) 3+4-Methylphenol	6.31	108	558470	41.95	ng/uL 99

(#)= qualifier out of range (m) = manual integration

N8963.D 122313S1.M Mon Dec 23 14:41:25 2013

JH
12-24-13

Page 1

108 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 506 Rev

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:41 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.31	106	785690	41.11	ng/uL	96
23) Hexachloroethane	6.45	117	249740	41.60	ng/uL	99
26) N,N-Dimethylaniline	6.49	120	768567	38.85	ng/uL	96
27) Nitrobenzene	6.50	77	692660	39.47	ng/uL	99
28) Isophorone	6.71	82	997937	41.08	ng/uL	100
29) N-Ethylaniline	6.73	106	929499	39.26	ng/uL	100
30) 2-Nitrophenol	6.80	139	285843	43.13	ng/uL	100
31) 2,4-Dimethylphenol	6.81	107	518162	39.85	ng/uL	98
32) Bis(2-chloroethoxy)methane	6.89	93	595128	40.32	ng/uL	99
33) Benzoic acid	6.90	105	234223m	40.97	ng/uL	
34) 2,4-Dichlorophenol	7.02	162	470286	41.70	ng/uL	99
35) 1,2,4-Trichlorobenzene	7.10	180	533042	40.31	ng/uL	99
36) Naphthalene	7.18	128	1487536	40.67	ng/uL#	99
37) 4-Chloroaniline	7.21	127	590058m	40.92	ng/uL	
38) Hexachlorobutadiene	7.28	225	314831	40.30	ng/uL	100
39) 4-Chloro-3-methylphenol	7.62	107	486081	41.76	ng/uL	99
40) 2-Methylnaphthalene	7.79	142	1079297	41.33	ng/uL	99
42) 1-Methylnaphthalene	7.89	142	1014264	39.58	ng/uL	99
43) Hexachlorocyclopentadiene	7.93	237	254953	43.55	ng/uL	99
44) 2,4,6-Trichlorophenol	8.03	196	343531	41.93	ng/uL	99
45) 2,4,5-Trichlorophenol	8.07	196	335847	41.48	ng/uL	98
47) 2-Chloronaphthalene	8.23	162	973082	40.08	ng/uL	99
48) 2-Nitroaniline	8.30	65	269818	42.47	ng/uL	99
49) 1,4-Dinitrobenzene	8.40	168	158201	47.69	ng/uL	99
50) Dimethylphthalate	8.43	163	983608	40.07	ng/uL	100
51) 1,3-Dinitrobenzene	8.47	168	175498	44.29	ng/uL	93
52) 2,6-Dinitrotoluene	8.49	165	229301	41.36	ng/uL	96
53) 1,2-Dinitrobenzene	8.55	168	118139	42.85	ng/uL	99
54) Acenaphthylene	8.60	152	1448203	39.76	ng/uL	99
55) 3-Nitroaniline	8.65	138	234713	43.59	ng/uL	99
56) Acenaphthene	8.75	154	875865	41.10	ng/uL	100
57) 2,4-Dinitrophenol	8.74	184	98655	43.90	ng/uL	86
58) 4-Nitrophenol	8.77	109	115754	42.68	ng/uL	97
59) Dibenzofuran	8.89	168	1296111	40.59	ng/uL	99
60) 2,4-Dinitrotoluene	8.85	165	309421	45.52	ng/uL	99
61) 2,3,5,6-Tetrachlorophenol	8.95	232	272362	43.35	ng/uL	98
62) 2,3,4,6-Tetrachlorophenol	8.99	232	268637	41.23	ng/uL	98
63) Diethylphthalate	9.02	149	964469	41.41	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.16	204	550507	40.25	ng/uL	99
65) 4-Nitroaniline	9.18	138	209230	44.08	ng/uL	96
66) Fluorene	9.19	166	950638	39.72	ng/uL	99

(#)=qualifier out of range (m)=manual integration

N8963.D 122313S1.M Mon Dec 23 14:41:26 2013

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 506 Rev

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:41 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.30	77	907995	40.72	ng/uL	100
70) 4,6-Dinitro-2-methylphenol	9.21	198	153832	41.44	ng/uL	98
71) n-Nitrosodiphenylamine	9.25	169	851346	38.98	ng/uL	100
72) 4-Bromophenyl phenyl ether	9.58	248	334168	39.10	ng/uL	98
73) Hexachlorobenzene	9.67	284	322068	39.42	ng/uL	100
74) Pentachlorophenol	9.83	266	205792m	41.29	ng/uL	
75) Phenanthrene	10.02	178	1428441	40.70	ng/uL	99
76) Anthracene	10.07	178	1482149	40.75	ng/uL	100
77) Carbazole	10.19	167	1450046	41.14	ng/uL	100
78) Di-n-butylphthalate	10.41	149	1895457	40.71	ng/uL	100
79) Fluoranthene	11.05	202	2023744	40.26	ng/uL	99
81) Benzidine	11.12	184	920336	39.72	ng/uL	100
82) Pyrene	11.25	202	1915807	39.58	ng/uL	100
84) Butylbenzylphthalate	11.70	149	787630	41.27	ng/uL	99
85) Bis(2-ethylhexyl) adipate	11.71	129	584730	40.53	ng/uL	99
86) Bis(2-ethylhexyl)phthalate	12.15	149	1019050	41.57	ng/uL	99
87) 3,3'-Dichlorobenzidine	12.21	252	579899	42.27	ng/uL	100
88) Benzo[a]anthracene	12.27	228	1701422	40.85	ng/uL	100
89) Chrysene	12.30	228	1517803	41.69	ng/uL	100
90) Di-n-octylphthalate	12.71	149	1596567	43.83	ng/uL	100
92) Benzo[b]fluoranthene	13.29	252	1510152	41.93	ng/uL	100
93) Benzo[k]fluoranthene	13.33	252	1406053	42.02	ng/uL	99
94) Benzo[a]pyrene	13.67	252	1325441	41.87	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.18	276	981928	37.78	ng/uL	99
96) Dibenzo[a,h]anthracene	15.17	278	869119	38.93	ng/uL	99
97) Benzo[g,h,i]perylene	15.62	276	799034	36.90	ng/uL	99

(#) = qualifier out of range (m) = manual integration

N8963.D 122313S1.M Mon Dec 23 14:41:26 2013

Page 3

110 of 211

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Acq On : 23 Dec 2013 14:09

Sample : ICALSVSTD040

Misc : ST130926-9

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:39 2013

Vial: 7

Operator: jk SOP 50

Inst : GC/MS Ins

Multiplr: 1.00

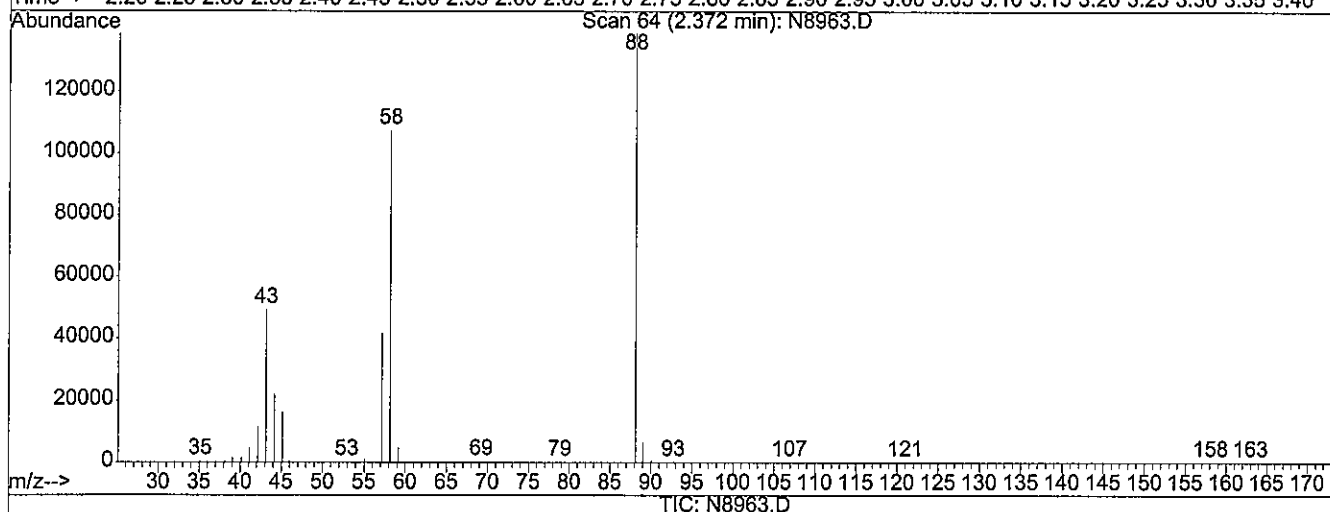
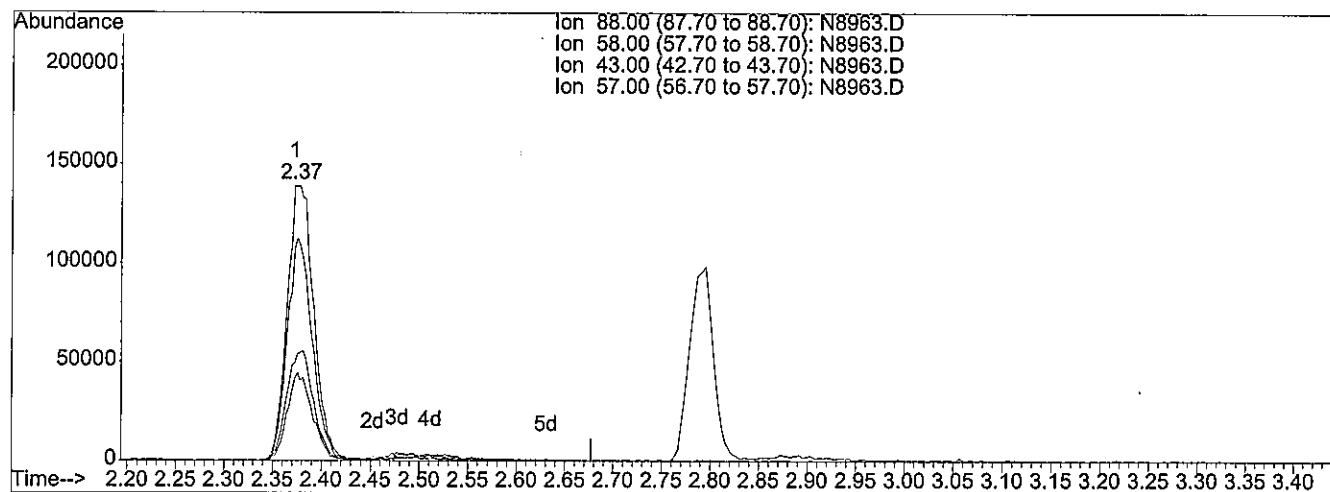
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.37min 39.48ng/uL

response 264091

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	76.76
43.00	35.60	40.67
57.00	27.90	30.25

3cf

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 50

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:39 2013

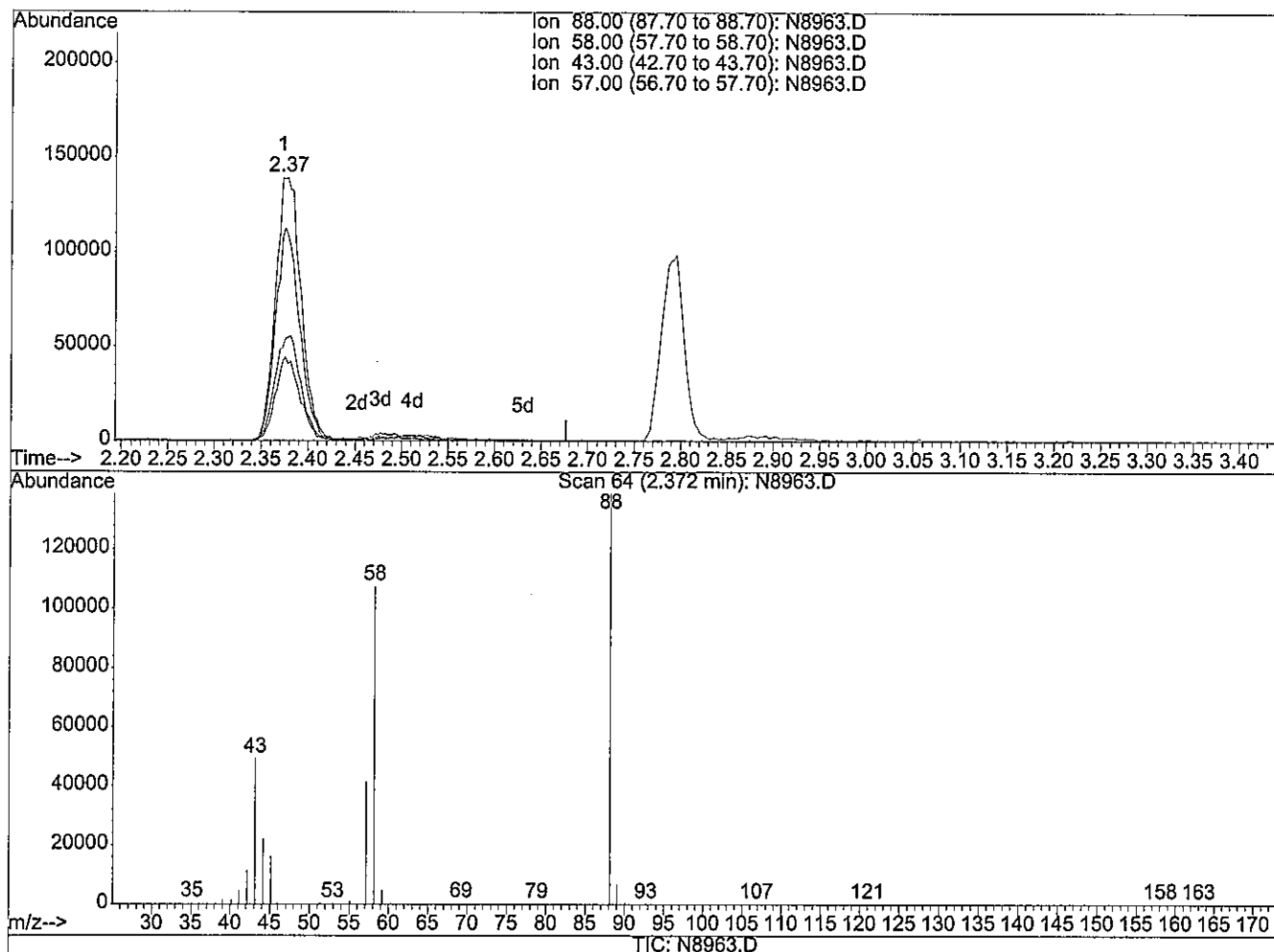
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.37min 42.52ng/uL m

response 284448

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	71.26
43.00	35.60	37.76
57.00	27.90	28.09

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials yt date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 50

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:39 2013

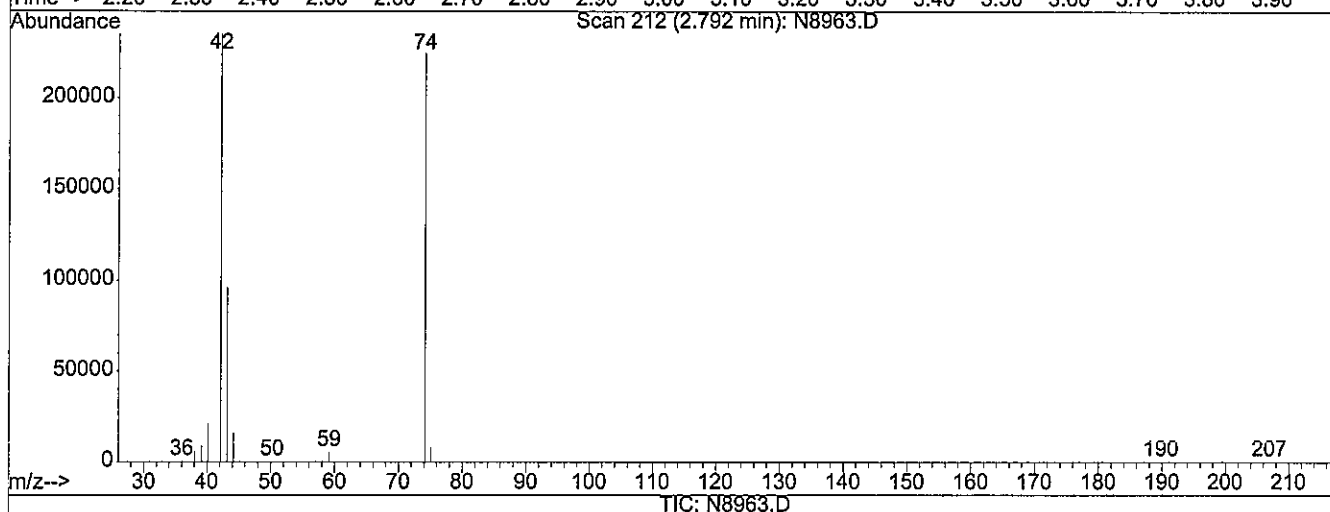
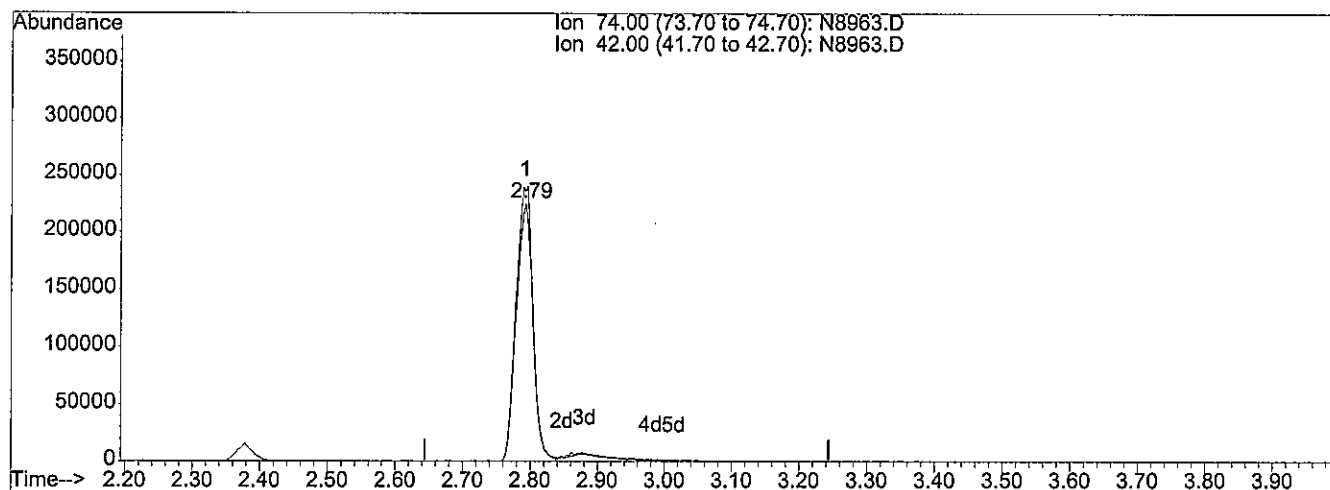
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 38.99ng/uL

response 378961

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	110.54
0.00	0.00	0.00
0.00	0.00	0.00

3cfar

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 50

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:39 2013

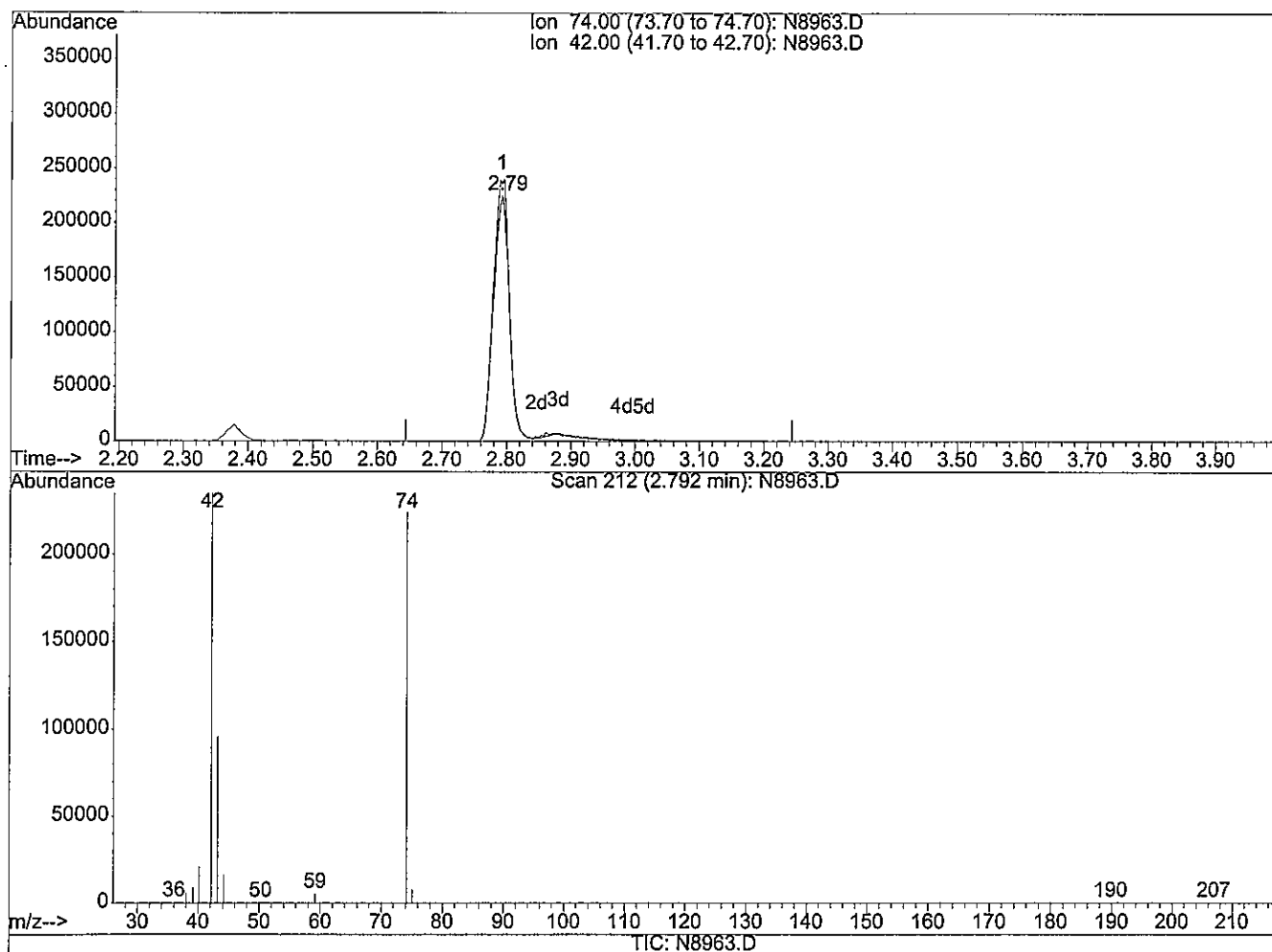
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 42.97ng/uL m

response 417591

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	100.31
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 50

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:39 2013

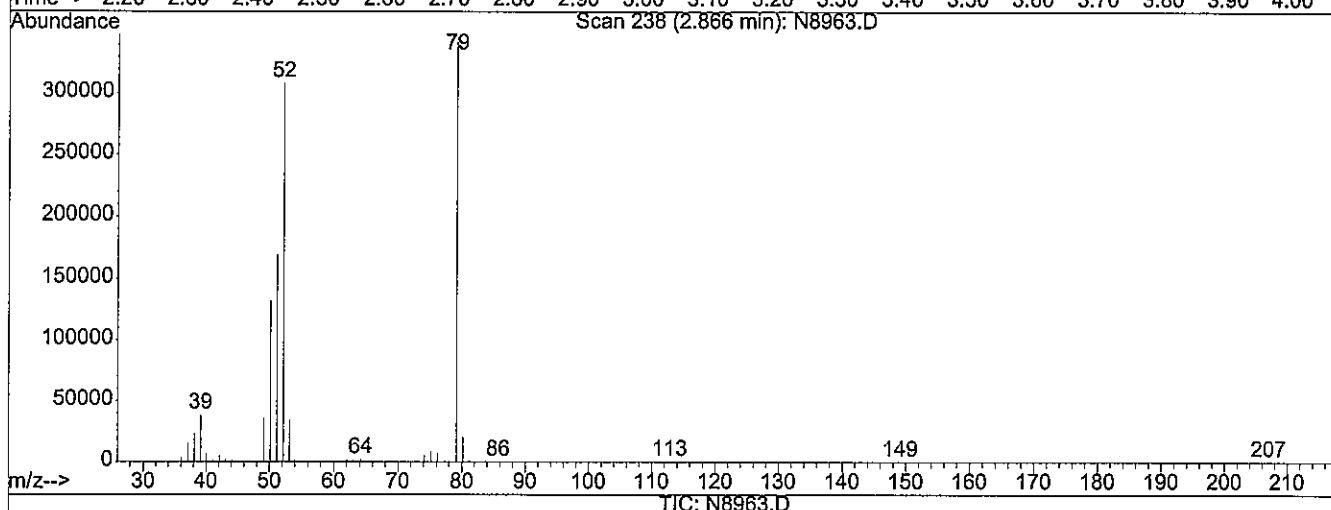
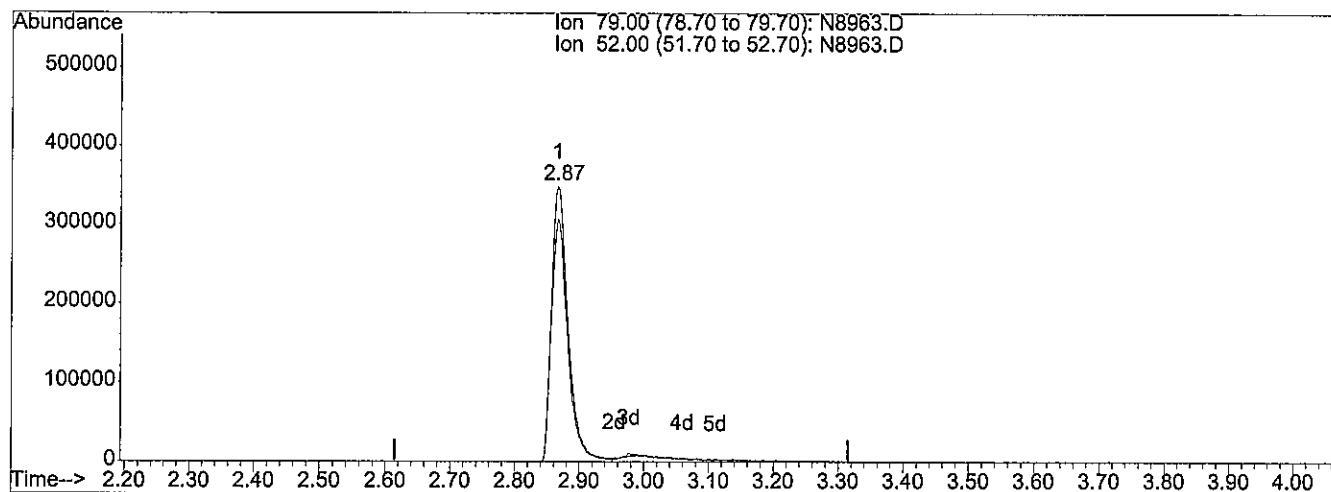
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 39.51ng/uL

response 625114

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	87.62
0.00	0.00	0.00
0.00	0.00	0.00

3cfon

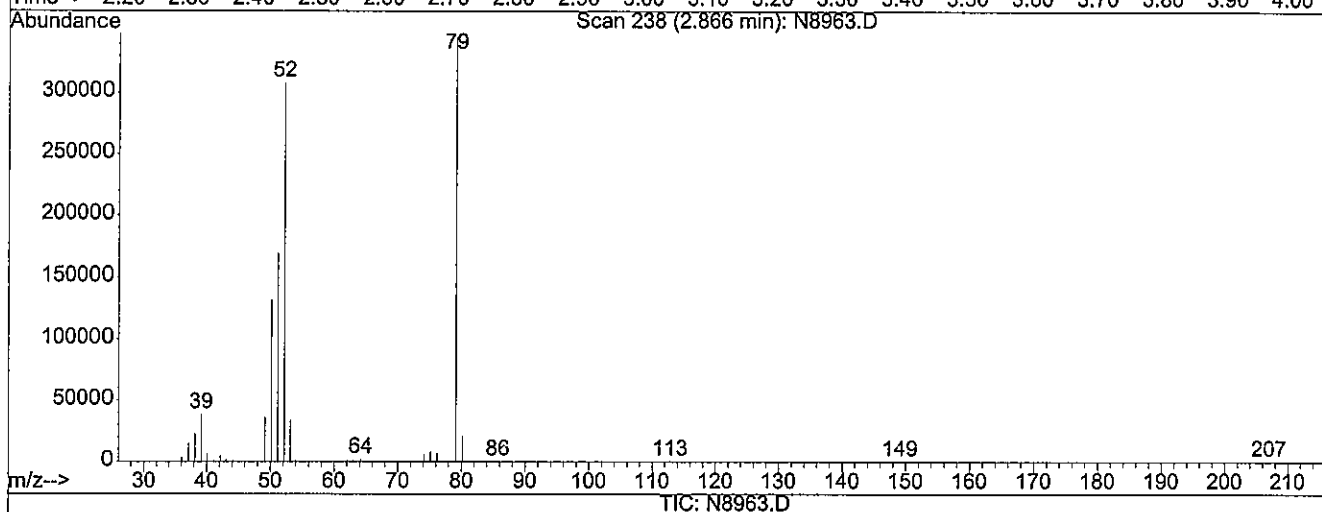
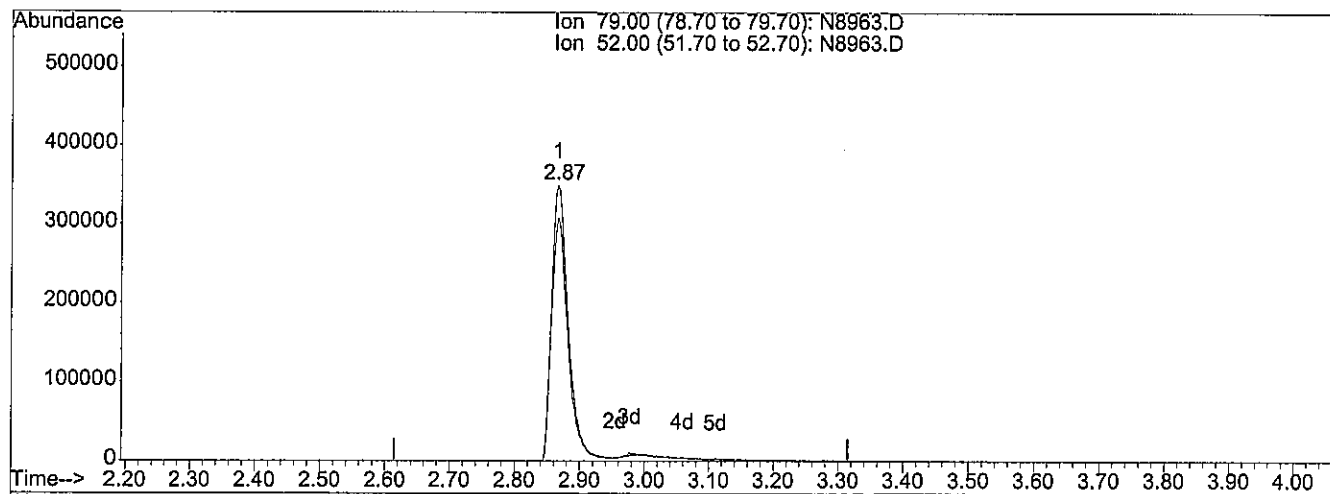
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D
 Acq On : 23 Dec 2013 14:09
 Sample : ICALSVSTD040
 Misc : ST130926-9
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 14:39 2013

Vial: 7
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 14:39:14 2013
 Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 43.48ng/uL m

response 688047

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	79.61
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-17

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 50

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:39 2013

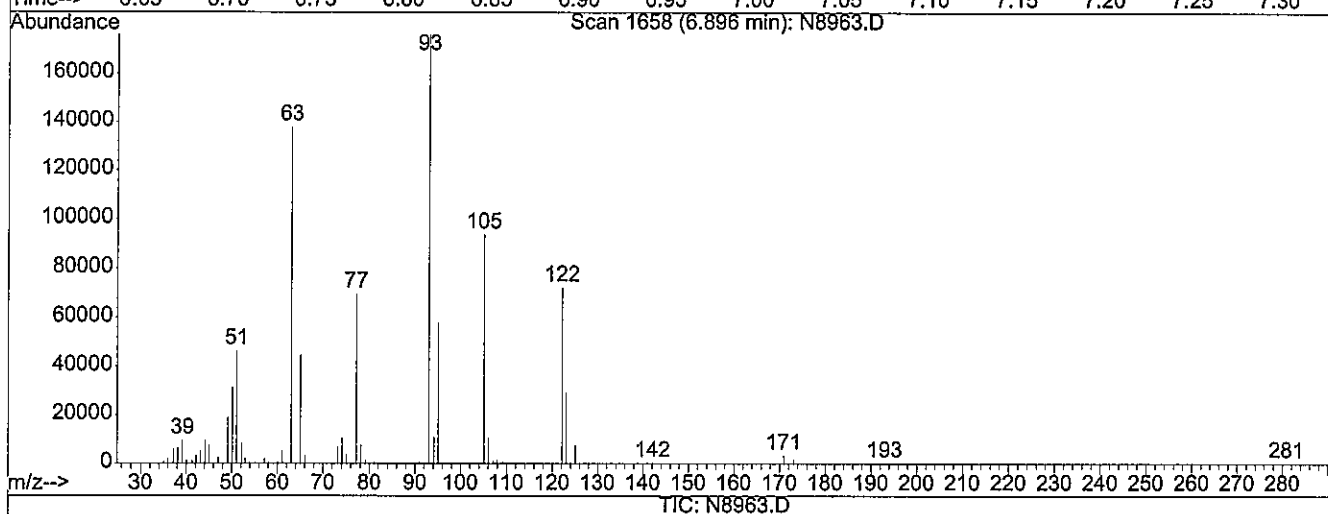
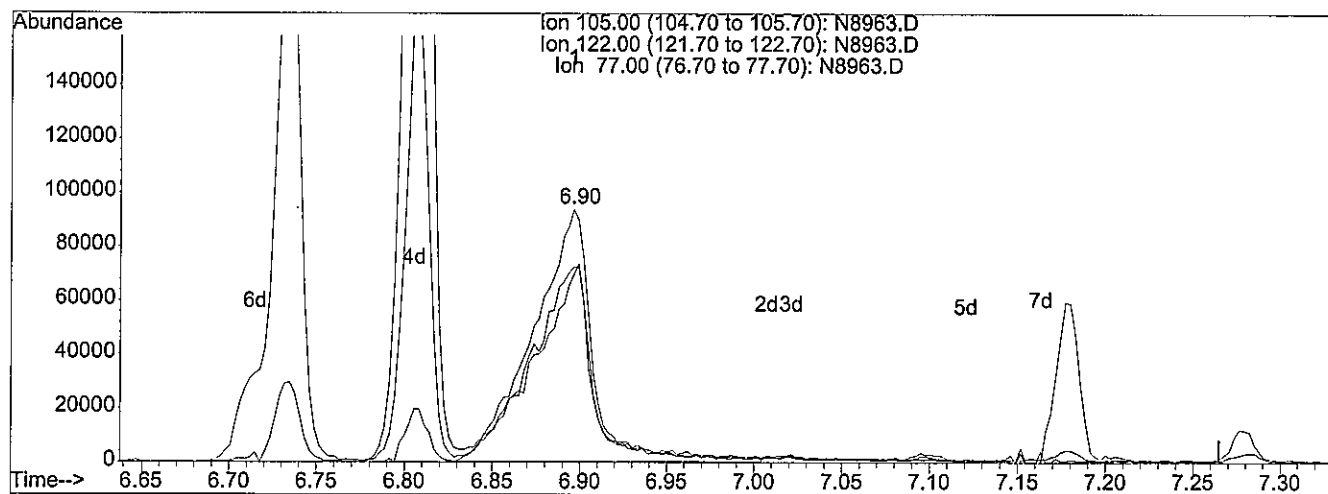
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.90min 38.83ng/uL

response 221950

Ion	Exp%	Act%
105.00	100	100
122.00	74.60	78.05
77.00	71.30	74.67
0.00	0.00	0.00

John

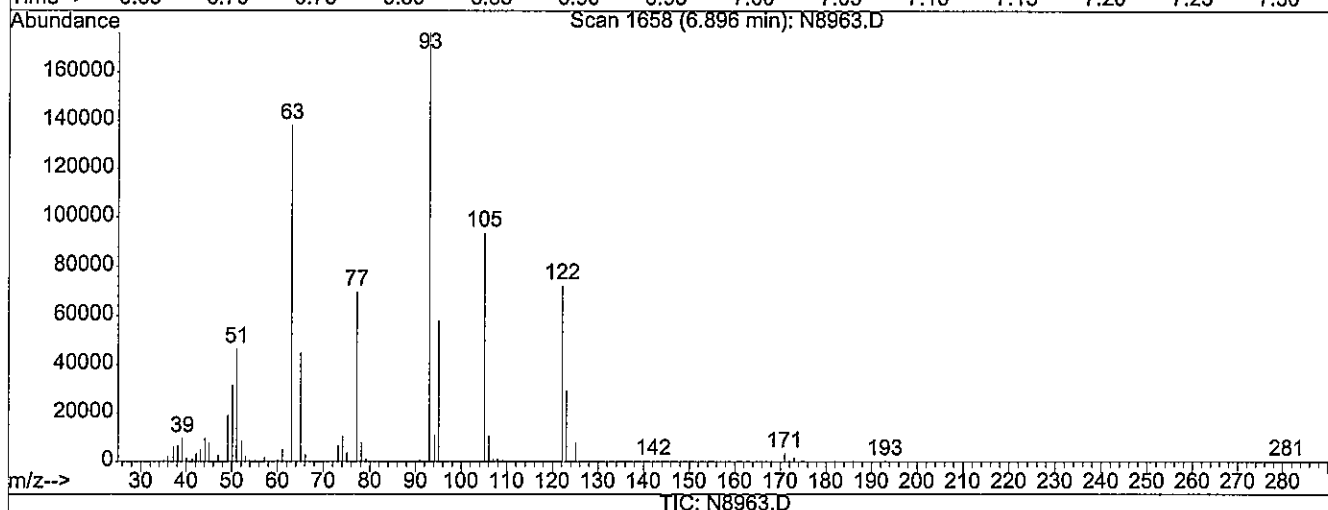
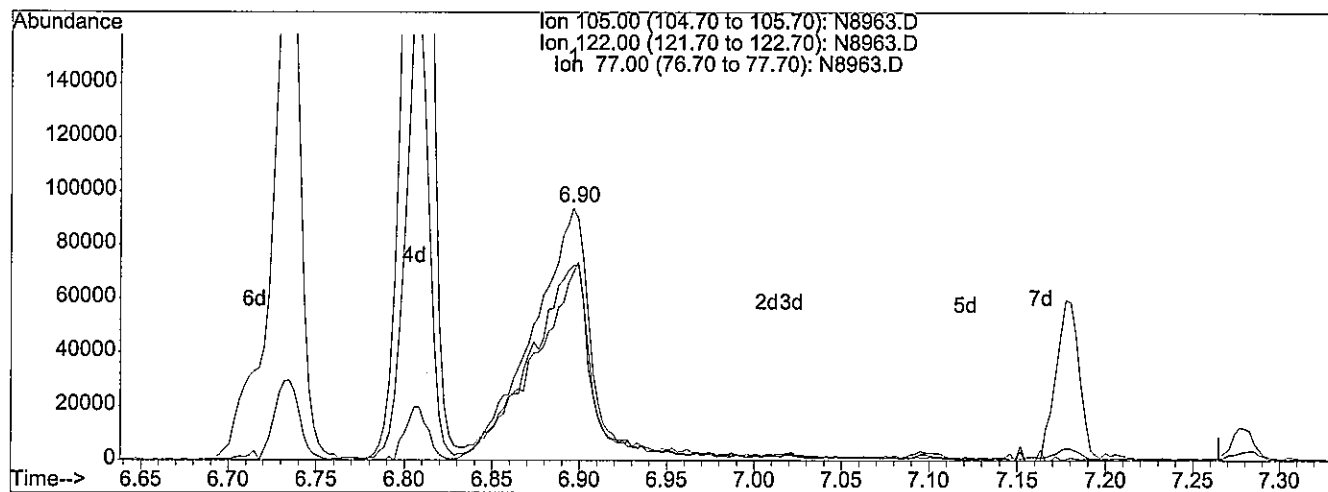
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D
 Acq On : 23 Dec 2013 14:09
 Sample : ICALSVSTD040
 Misc : ST130926-9
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 14:40 2013

Vial: 7
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 14:39:14 2013
 Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.90min 40.97ng/uL m

response 234223

Ion	Exp%	Act%
105.00	100	100
122.00	74.60	73.96
77.00	71.30	70.76
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 50

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:40 2013

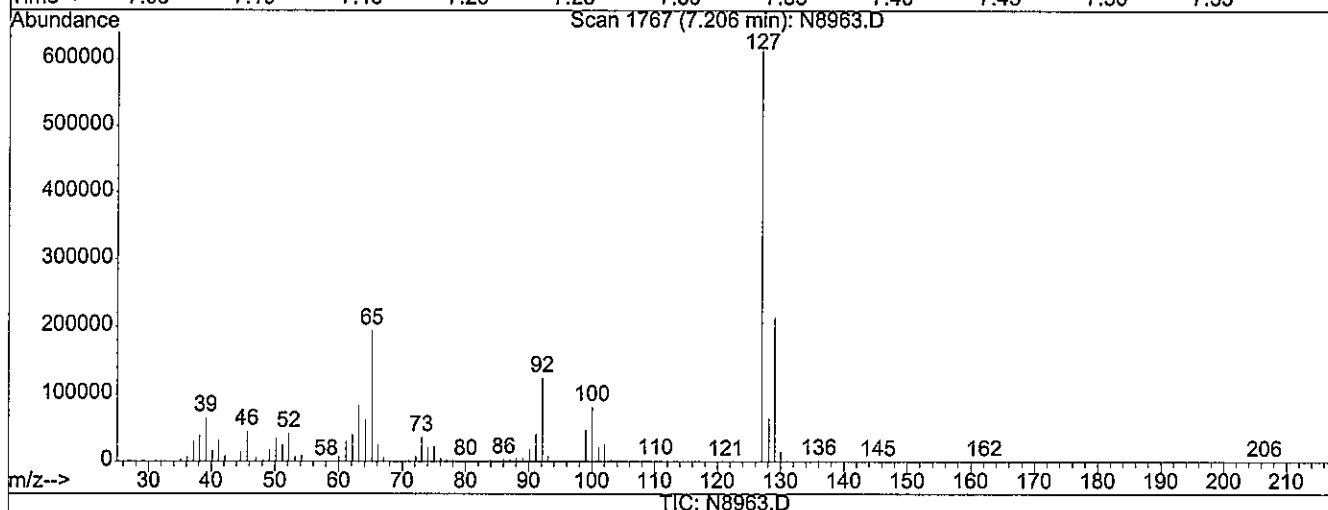
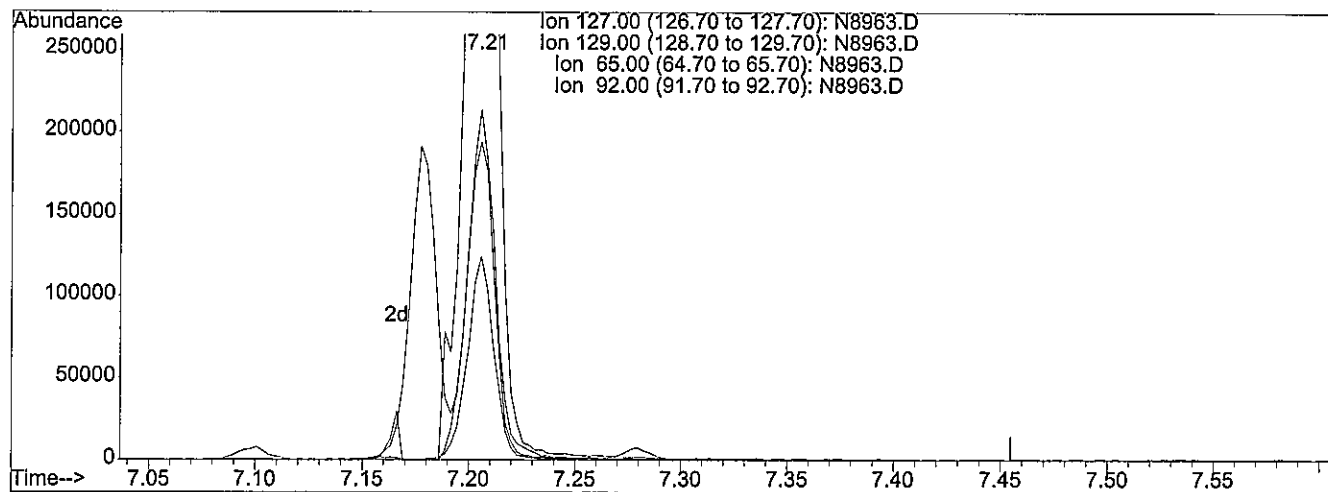
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 42.67ng/uL

response 615259

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	31.36
65.00	29.50	29.27
92.00	18.50	17.68

3e for

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Acq On : 23 Dec 2013 14:09

Sample : ICALSVSTD040

Misc : ST130926-9

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:40 2013

Vial: 7

Operator: jk SOP 50

Inst : GC/MS Ins

Multiplr: 1.00

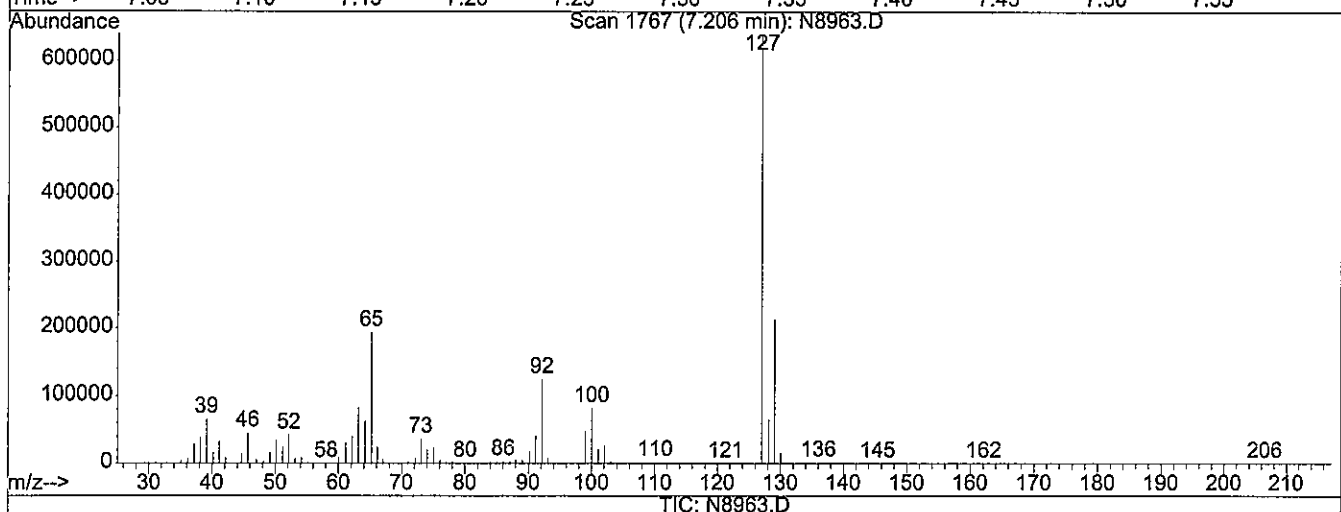
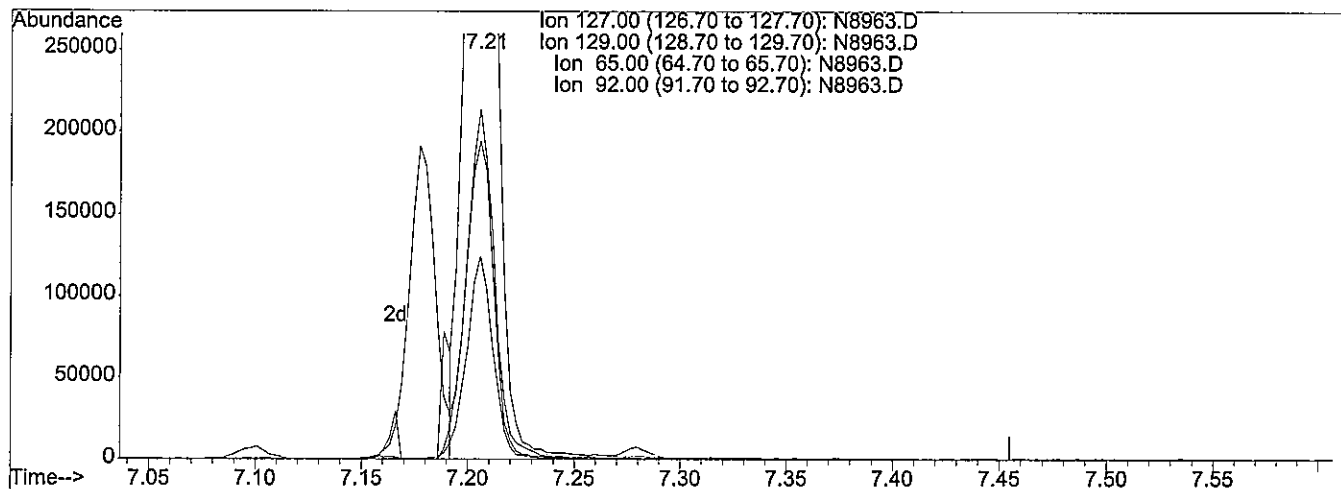
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 40.92ng/uL m

response 590058

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	32.70
65.00	29.50	30.52
92.00	18.50	18.44

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D

Vial: 7

Acq On : 23 Dec 2013 14:09

Operator: jk SOP 50

Sample : ICALSVSTD040

Inst : GC/MS Ins

Misc : ST130926-9

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 14:40 2013

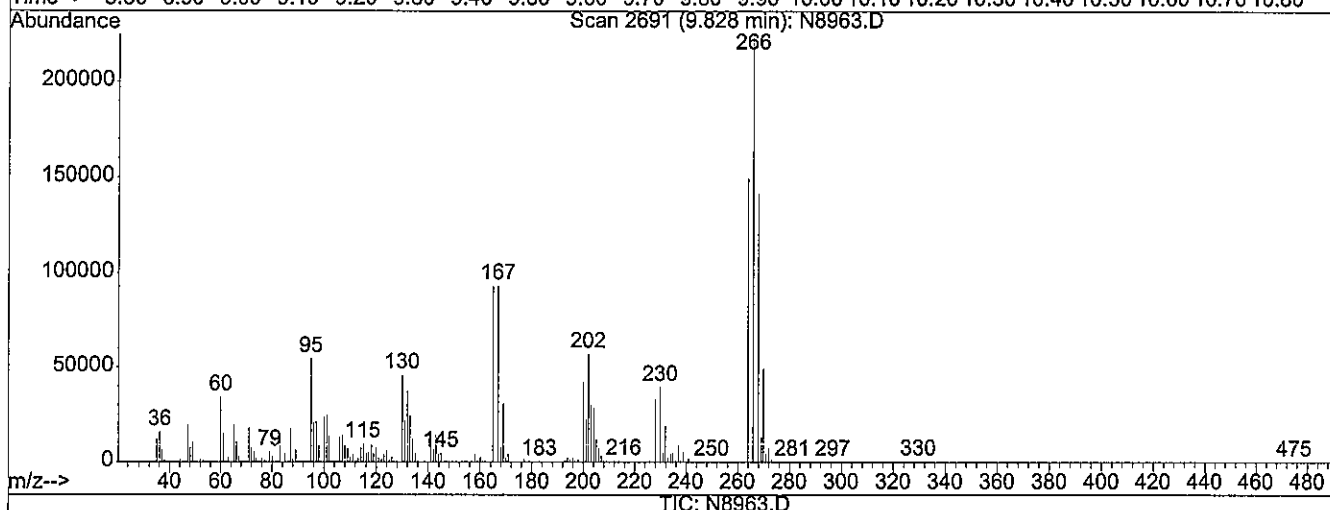
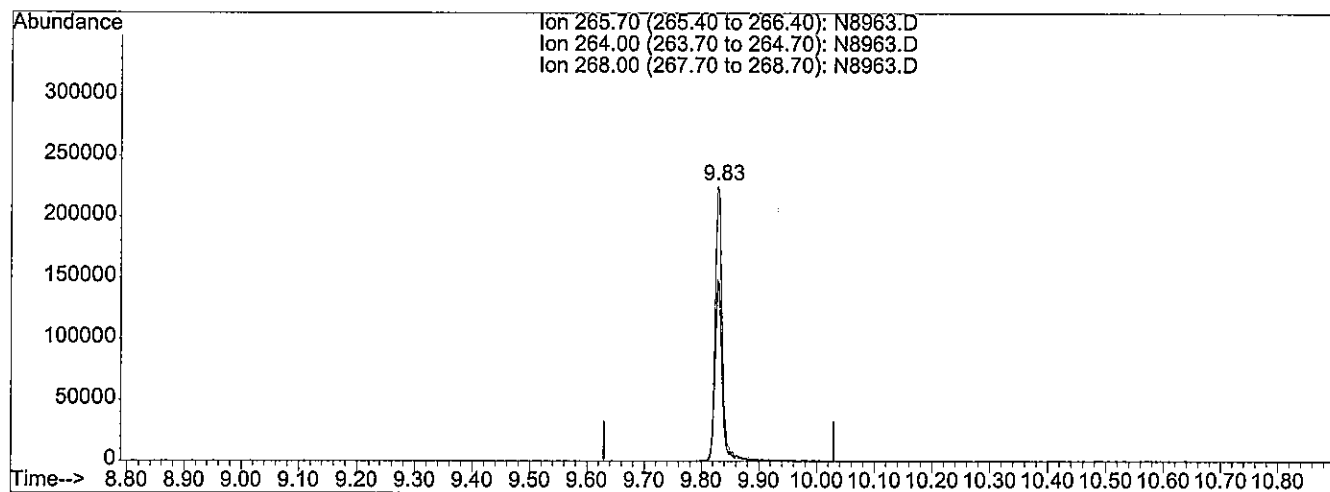
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 14:39:14 2013

Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 39.96ng/uL

response 199162

Ion	Exp%	Act%
265.70	100	100
264.00	62.70	64.47
268.00	63.40	61.56
0.00	0.00	0.00

2013

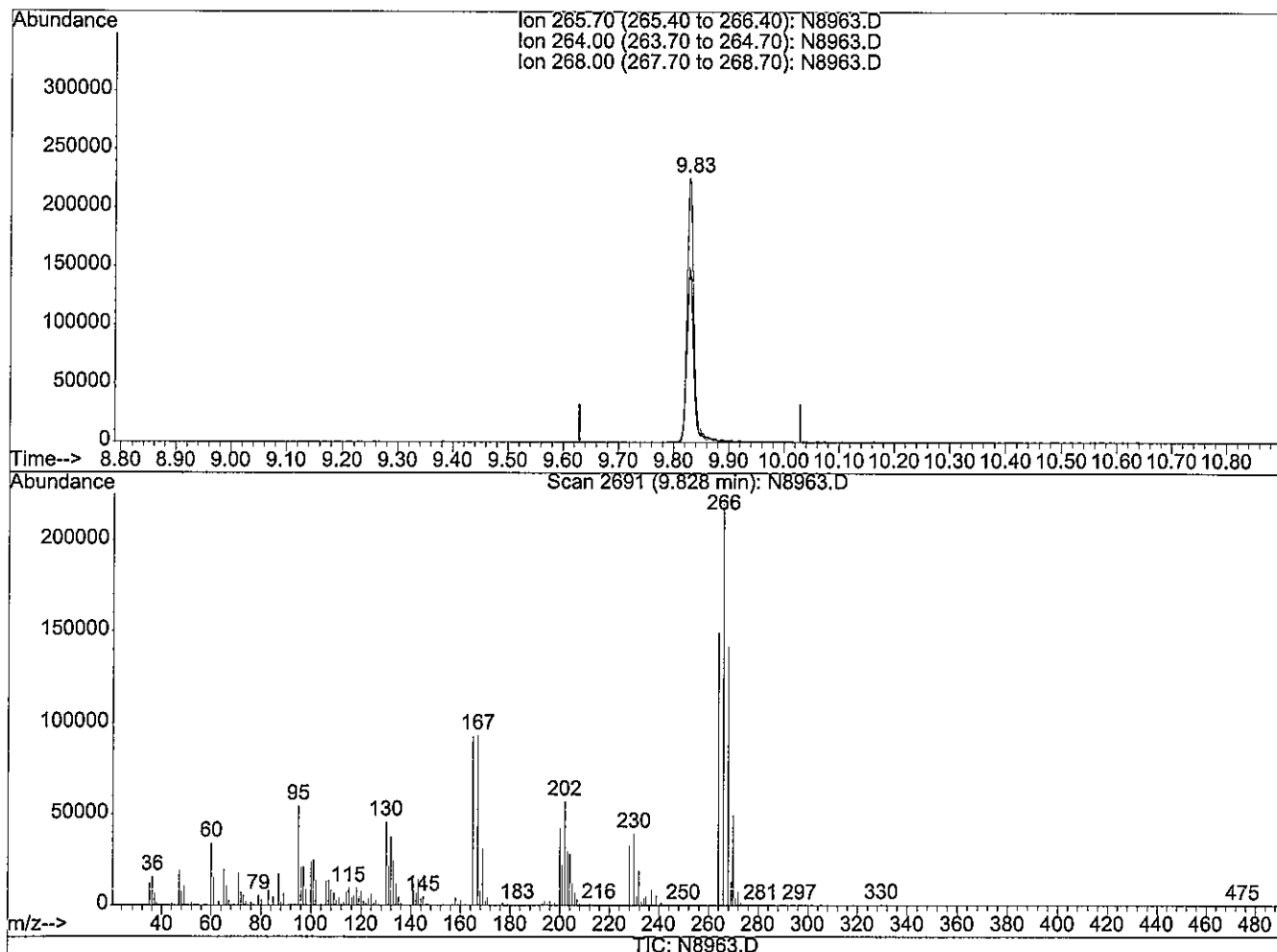
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8963.D
 Acq On : 23 Dec 2013 14:09
 Sample : ICALSVSTD040
 Misc : ST130926-9
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 14:41 2013

Vial: 7
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 14:39:14 2013
 Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 41.29ng/uL m

response 205792

Ion	Exp%	Act%
265.70	100	100
264.00	62.70	62.39
268.00	63.40	59.57
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

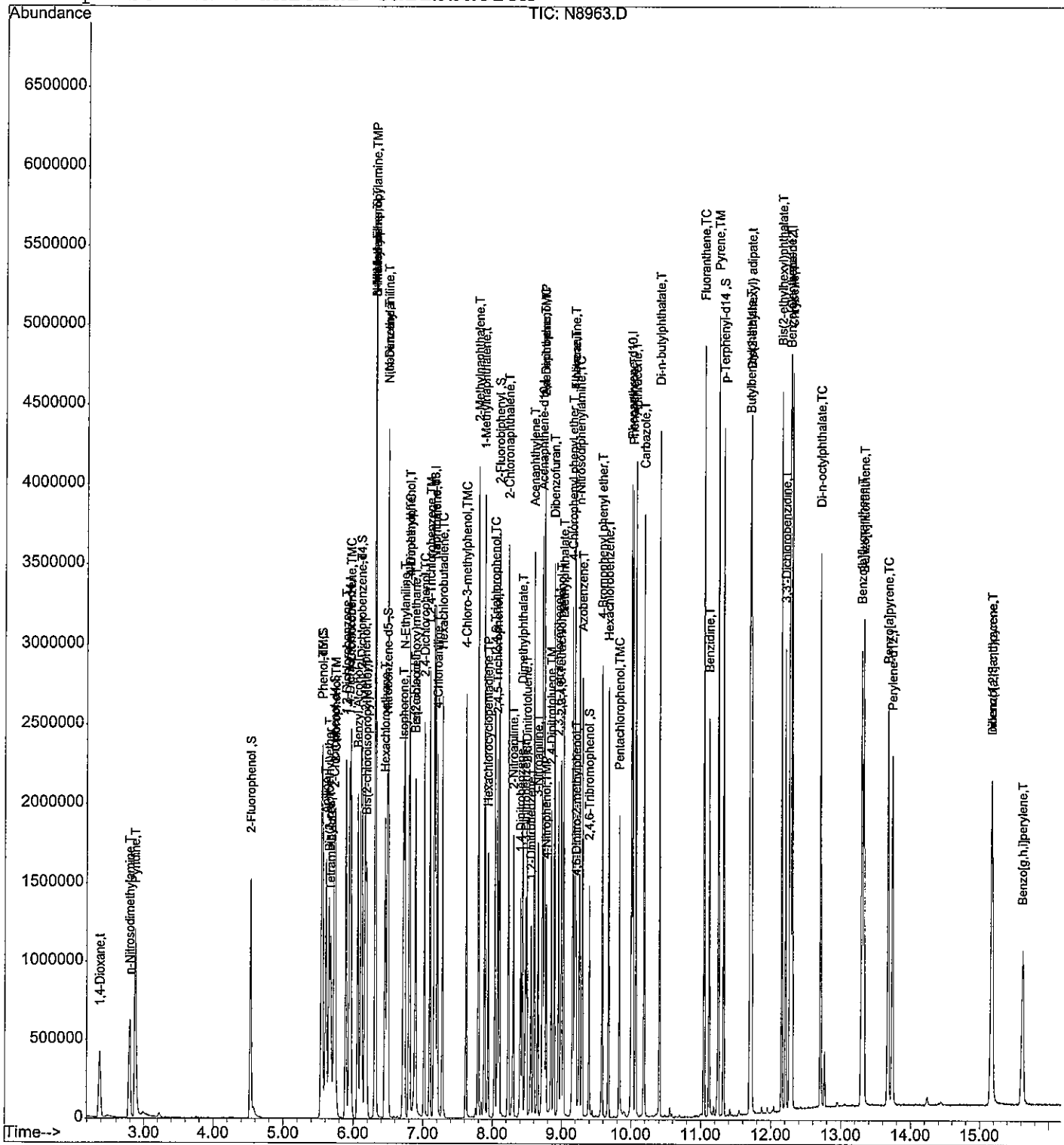
Quantitation Report

Data File : D:\HPCHEM\1\DATA\122313\N8963.D
Acq On : 23 Dec 2013 14:09
Sample : ICALSVSTD040
Misc : ST130926-9
MS Integration Params: RTEINT.P
Quant Time: Dec 23 14:41 2013

Vial: 7
Operator: jk SOP 506
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 122313S1.RES

```
Method       : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
Title        : GC-MS Semivolatiles      SOP no. 506
Last Update   : Mon Dec 23 14:39:14 2013
Response via  : Initial Calibration
```



Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Vial: 8

Acq On : 23 Dec 2013 14:33

Operator: jk SOP 506 Rev

Sample : ICALSVSTD080

Inst : GC/MS Ins

Misc : ST130926-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:42 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	367759	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1412018	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	718071	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1402693	40.00	ng/uL	0.00
80) Chrysene-d12	12.28	240	1274055	40.00	ng/uL	0.01
91) Perylene-d12	13.74	264	830742	40.00	ng/uL	0.01

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	1076470m	84.26	ng/uL	0.00
Spiked Amount 75.000	Range 46 - 105		Recovery =	112.35%#		
6) 2-Chlorophenol-d4	5.72	132	931774	76.98	ng/uL	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery =	102.64%		
8) Phenol-d5	5.55	99	1283292	81.09	ng/uL	0.00
Spiked Amount 75.000	Range 50 - 109		Recovery =	108.12%		
15) 1,2-Dichlorobenzene-d4	6.11	152	661008	70.64	ng/uL	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery =	141.28%#		
25) Nitrobenzene-d5	6.48	82	925613	76.59	ng/uL	0.00
Spiked Amount 50.000	Range 53 - 111		Recovery =	153.18%#		
46) 2-Fluorobiphenyl	8.10	172	1832536	73.76	ng/uL	0.00
Spiked Amount 50.000	Range 55 - 108		Recovery =	147.52%#		
68) 2,4,6-Tribromophenol	9.40	330	241276	83.32	ng/uL	0.00
Spiked Amount 75.000	Range 42 - 117		Recovery =	111.09%		
83) p-Terphenyl-d14	11.32	244	2180873	76.71	ng/uL	0.00
Spiked Amount 50.000	Range 34 - 139		Recovery =	153.42%#		

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.36	88	521657m	85.70	ng/uL	
3) n-Nitrosodimethylamine	2.78	74	746612m	84.54	ng/uL	
4) Pyridine	2.86	79	1217605m	84.76	ng/uL	
7) Aniline	5.61	93	1379892	79.89	ng/uL	100
9) Phenol	5.56	94	1230661	80.86	ng/uL	99
10) Tetramethylurea	5.69	72	1509728	78.82	ng/uL	98
11) Bis(2-chloroethyl) ether	5.65	93	933796	77.62	ng/uL	98
12) 2-Chlorophenol	5.74	128	955203	76.89	ng/uL	99
13) 1,3-Dichlorobenzene	5.89	146	1135205	79.82	ng/uL	99
14) 1,4-Dichlorobenzene	5.96	146	1058230	80.43	ng/uL	99
16) 1,2-Dichlorobenzene	6.12	146	946601	77.30	ng/uL	99
17) Benzyl Alcohol	6.07	108	653568	83.26	ng/uL	99
18) 2-Methylphenol	6.17	107	783076	79.91	ng/uL	99
19) Bis(2-chloroisopropyl) ether	6.19	45	1393283	78.30	ng/uL	99
20) n-Nitroso-di-n-propylamine	6.32	70	622315	76.83	ng/uL	99
21) 3+4-Methylphenol	6.32	108	946527	79.07	ng/uL	99

(#)=qualifier out of range (m)=manual integration

N8964.D 122313S1.M Mon Dec 23 15:43:35 2013

Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Vial: 8

Acq On : 23 Dec 2013 14:33

Operator: jk SOP 506 Rev

Sample : ICALSVSTD080

Inst : GC/MS Ins

Misc : ST130926-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:42 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.32	106	1378547	80.03	ng/uL	100
23) Hexachloroethane	6.45	117	438707	80.90	ng/uL	99
26) N,N-Dimethylaniline	6.50	120	1322422	74.52	ng/uL	98
27) Nitrobenzene	6.50	77	1154184	73.51	ng/uL	99
28) Isophorone	6.72	82	1761762	79.81	ng/uL	100
29) N-Ethylaniline	6.74	106	1570352	74.03	ng/uL	99
30) 2-Nitrophenol	6.80	139	522415	85.49	ng/uL	97
31) 2,4-Dimethylphenol	6.81	107	880826	75.36	ng/uL	99
32) Bis(2-chloroethoxy)methane	6.89	93	1070510	79.80	ng/uL	99
33) Benzoic acid	6.93	105	441763	82.59	ng/uL	94
34) 2,4-Dichlorophenol	7.02	162	810264	79.18	ng/uL	100
35) 1,2,4-Trichlorobenzene	7.10	180	915808	76.78	ng/uL	100
36) Naphthalene	7.18	128	2664084	80.09	ng/uL#	99
37) 4-Chloroaniline	7.21	127	1045098m	79.69	ng/uL	
38) Hexachlorobutadiene	7.28	225	535702	76.15	ng/uL	99
39) 4-Chloro-3-methylphenol	7.62	107	841218	79.57	ng/uL	99
40) 2-Methylnaphthalene	7.80	142	1848014	78.18	ng/uL	99
42) 1-Methylnaphthalene	7.89	142	1742635	77.22	ng/uL	100
43) Hexachlorocyclopentadiene	7.94	237	439991	83.92	ng/uL	99
44) 2,4,6-Trichlorophenol	8.04	196	594814	81.55	ng/uL	99
45) 2,4,5-Trichlorophenol	8.07	196	552745	77.47	ng/uL	99
47) 2-Chloronaphthalene	8.23	162	1670219	77.96	ng/uL	100
48) 2-Nitroaniline	8.30	65	461481	81.59	ng/uL	98
49) 1,4-Dinitrobenzene	8.41	168	283149	93.10	ng/uL	98
50) Dimethylphthalate	8.44	163	1745778	80.16	ng/uL	100
51) 1,3-Dinitrobenzene	8.48	168	314815	87.83	ng/uL	99
52) 2,6-Dinitrotoluene	8.50	165	396545	80.55	ng/uL#	83
53) 1,2-Dinitrobenzene	8.56	168	208669	84.41	ng/uL	98
54) Acenaphthylene	8.60	152	2497965	77.77	ng/uL	100
55) 3-Nitroaniline	8.66	138	415879	85.82	ng/uL	99
56) Acenaphthene	8.75	154	1502340	79.58	ng/uL	99
57) 2,4-Dinitrophenol	8.74	184	192041	91.67	ng/uL	90
58) 4-Nitrophenol	8.78	109	210787	85.59	ng/uL	99
59) Dibenzofuran	8.90	168	2143312	76.38	ng/uL	100
60) 2,4-Dinitrotoluene	8.86	165	563421	90.92	ng/uL	99
61) 2,3,5,6-Tetrachlorophenol	8.95	232	475349	84.19	ng/uL	99
62) 2,3,4,6-Tetrachlorophenol	8.99	232	471561	81.28	ng/uL	99
63) Diethylphthalate	9.03	149	1730535	83.13	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.16	204	946875	78.39	ng/uL	98
65) 4-Nitroaniline	9.19	138	354296	83.44	ng/uL	98
66) Fluorene	9.19	166	1619736	76.91	ng/uL	99

(#)=qualifier out of range (m)=manual integration

N8964.D 122313S1.M

Mon Dec 23 15:43:35 2013

Page 2

125 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Vial: 8

Acq On : 23 Dec 2013 14:33

Operator: jk SOP 506 Rev

Sample : ICALSVSTD080

Inst : GC/MS Ins

Misc : ST130926-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:42 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.30	77	1549832	78.64	ng/uL	99
70) 4,6-Dinitro-2-methylphenol	9.21	198	295443	84.56	ng/uL	98
71) n-Nitrosodiphenylamine	9.26	169	1497318	75.16	ng/uL	100
72) 4-Bromophenyl phenyl ether	9.58	248	588629	75.44	ng/uL	100
73) Hexachlorobenzene	9.68	284	561202	75.28	ng/uL	99
74) Pentachlorophenol	9.83	266	382418	81.64	ng/uL	99
75) Phenanthrene	10.03	178	2529946	78.39	ng/uL	100
76) Anthracene	10.07	178	2551172	76.62	ng/uL	99
77) Carbazole	10.19	167	2464721	76.42	ng/uL	100
78) Di-n-butylphthalate	10.41	149	3239241	76.10	ng/uL	100
79) Fluoranthene	11.05	202	3421197	74.70	ng/uL	100
81) Benzidine	11.12	184	1636159	80.45	ng/uL	100
82) Pyrene	11.25	202	3296041	78.05	ng/uL	100
84) Butylbenzylphthalate	11.70	149	1373562	81.72	ng/uL	100
85) Bis(2-ethylhexyl) adipate	11.71	129	994725	78.86	ng/uL	98
86) Bis(2-ethylhexyl)phthalate	12.15	149	1771147	82.00	ng/uL	99
87) 3,3'-Dichlorobenzidine	12.21	252	968962	80.46	ng/uL	100
88) Benzo[a]anthracene	12.27	228	2906144	79.66	ng/uL	100
89) Chrysene	12.31	228	2581546	80.72	ng/uL	100
90) Di-n-octylphthalate	12.71	149	2650620	82.48	ng/uL	100
92) Benzo[b]fluoranthene	13.30	252	2296466	85.72	ng/uL	98
93) Benzo[k]fluoranthene	13.33	252	2145712	86.13	ng/uL	98
94) Benzo[a]pyrene	13.68	252	1942687	83.06	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.19	276	1473772	77.78	ng/uL	99
96) Dibenzo[a,h]anthracene	15.18	278	1334759	81.28	ng/uL	99
97) Benzo[g,h,i]perylene	15.63	276	1201342	76.36	ng/uL	100

(#) = qualifier out of range (m) = manual integration

N8964.D 122313S1.M Mon Dec 23 15:43:35 2013

Page 3

126 of 211

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Acq On : 23 Dec 2013 14:33

Sample : ICALSVSTD080

Misc : ST130926-10

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:40 2013

Vial: 8

Operator: jk SOP 50

Inst : GC/MS Ins

Multiplr: 1.00

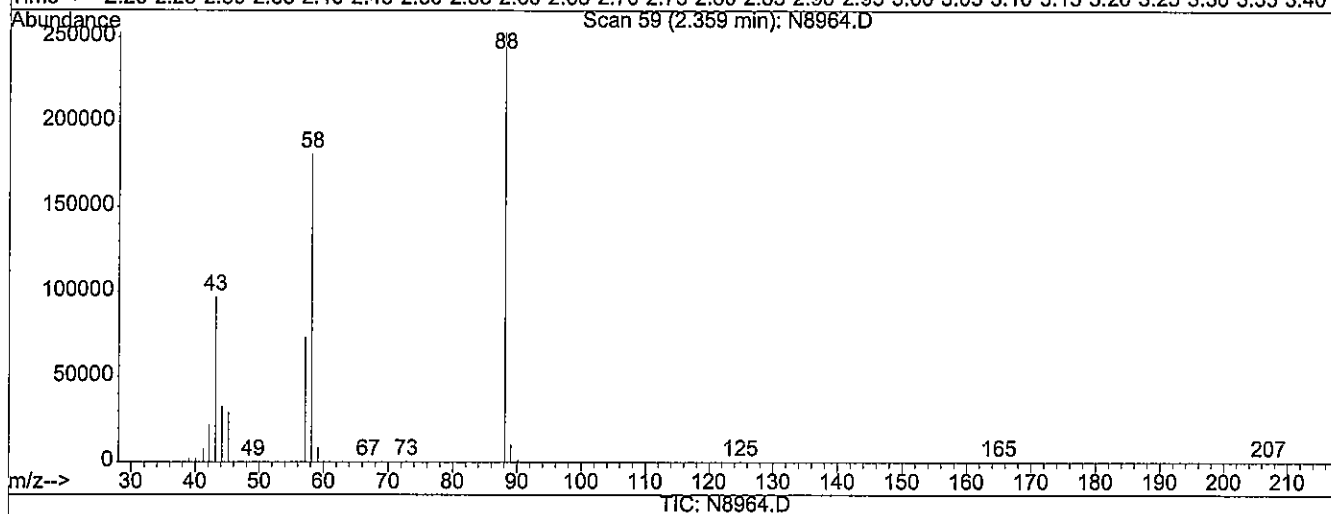
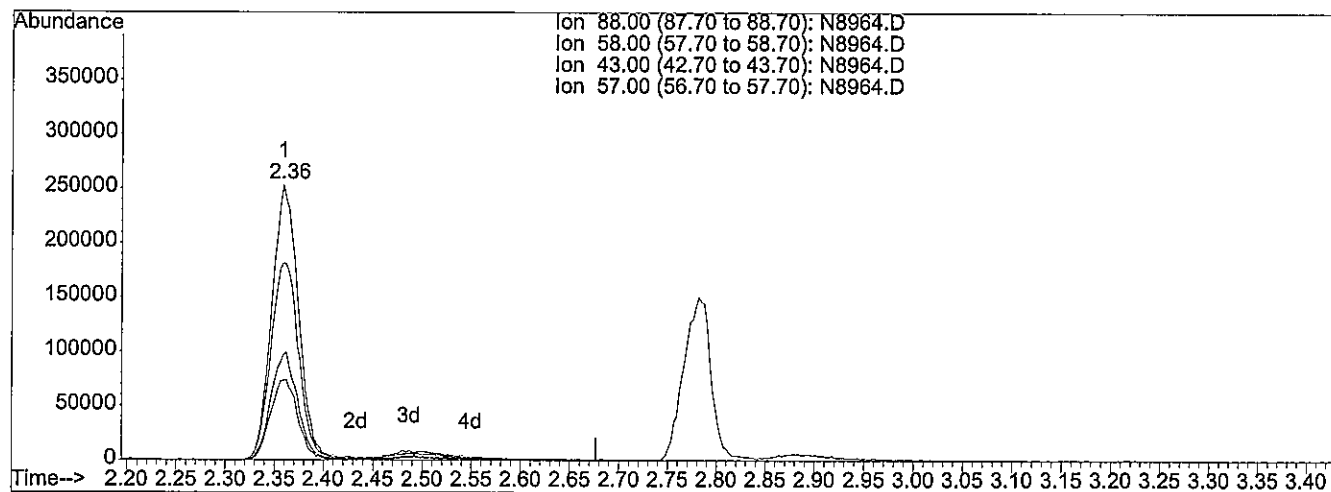
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.36min 78.60ng/uL

response 478469

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	75.10
43.00	35.60	39.22
57.00	27.90	30.22

3efor

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Vial: 8

Acq On : 23 Dec 2013 14:33

Operator: jk SOP 50

Sample : ICALSVSTD080

Inst : GC/MS Ins

Misc : ST130926-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:41 2013

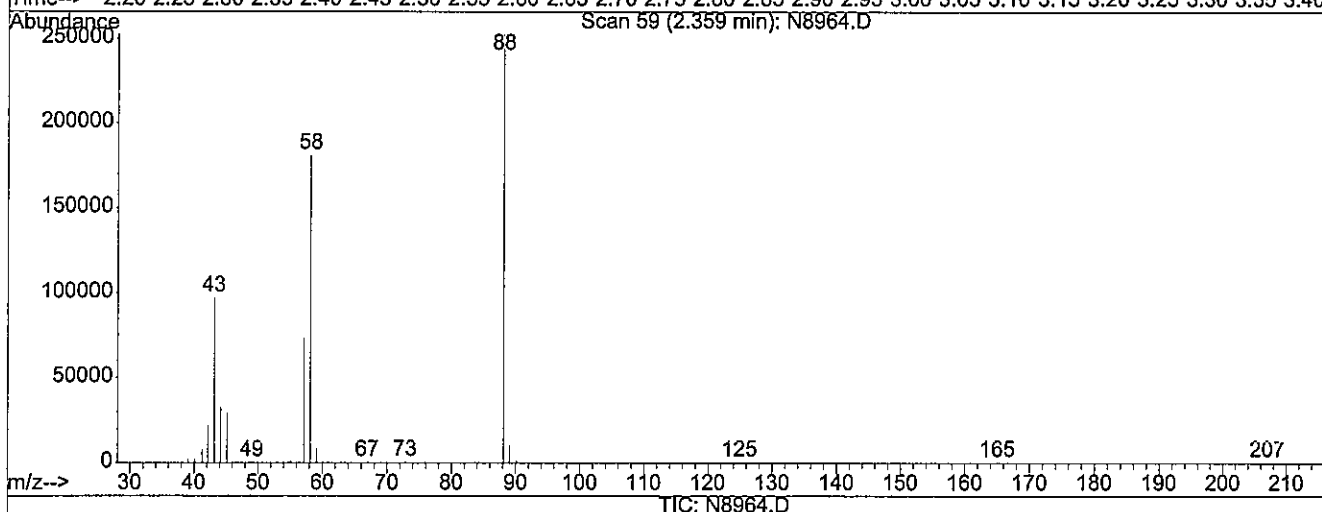
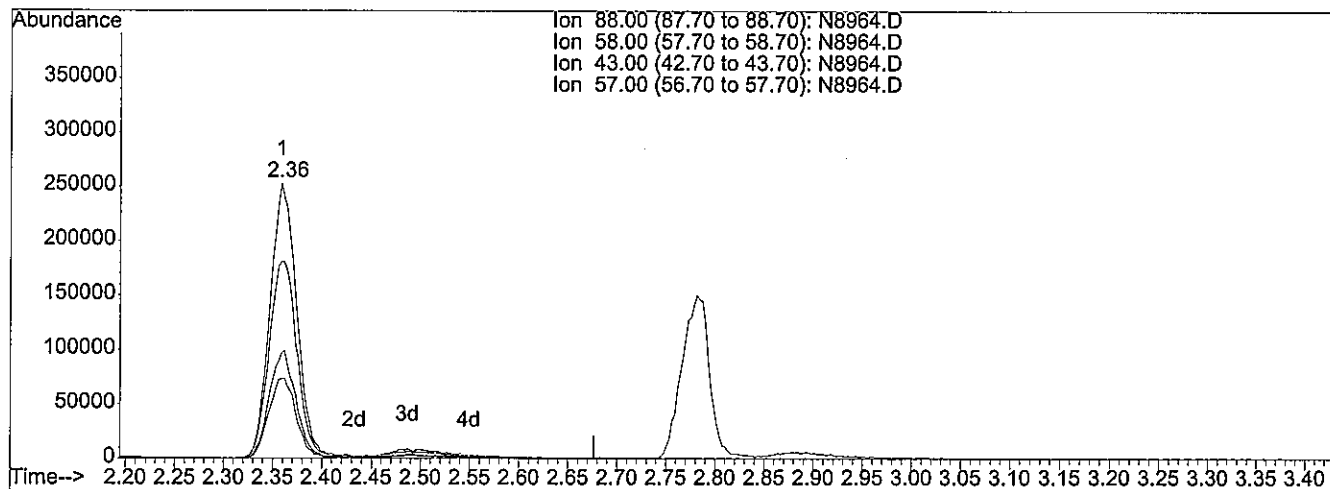
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.36min 85.70ng/uL m

response 521657

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	68.88
43.00	35.60	35.97
57.00	27.90	27.72

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Vial: 8

Acq On : 23 Dec 2013 14:33

Operator: jk SOP 50

Sample : ICALSVSTD080

Inst : GC/MS Ins

Misc : ST130926-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:41 2013

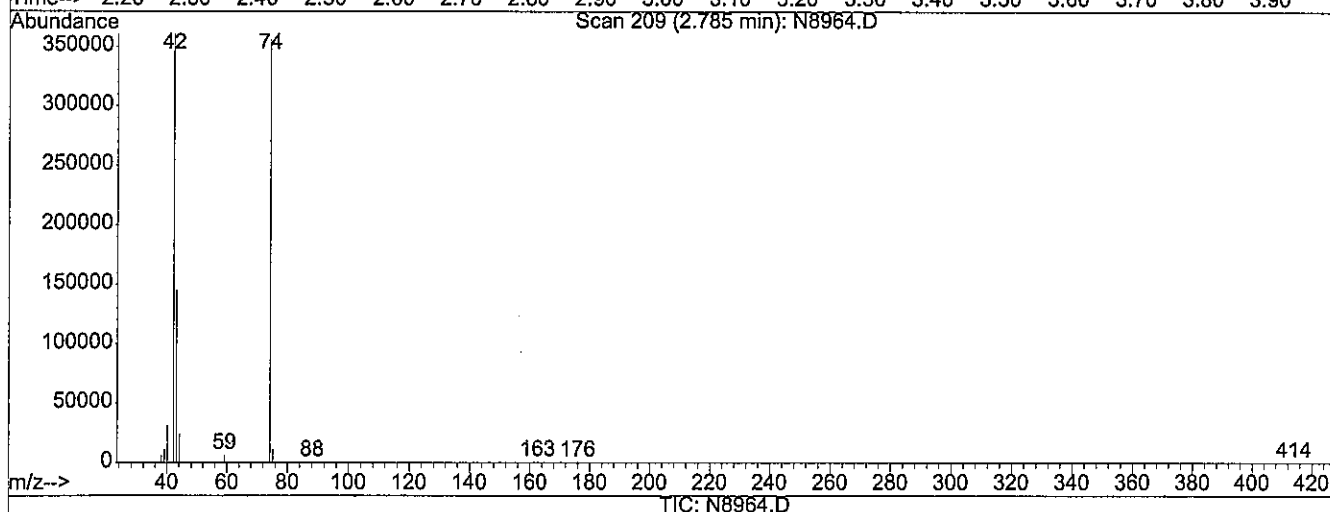
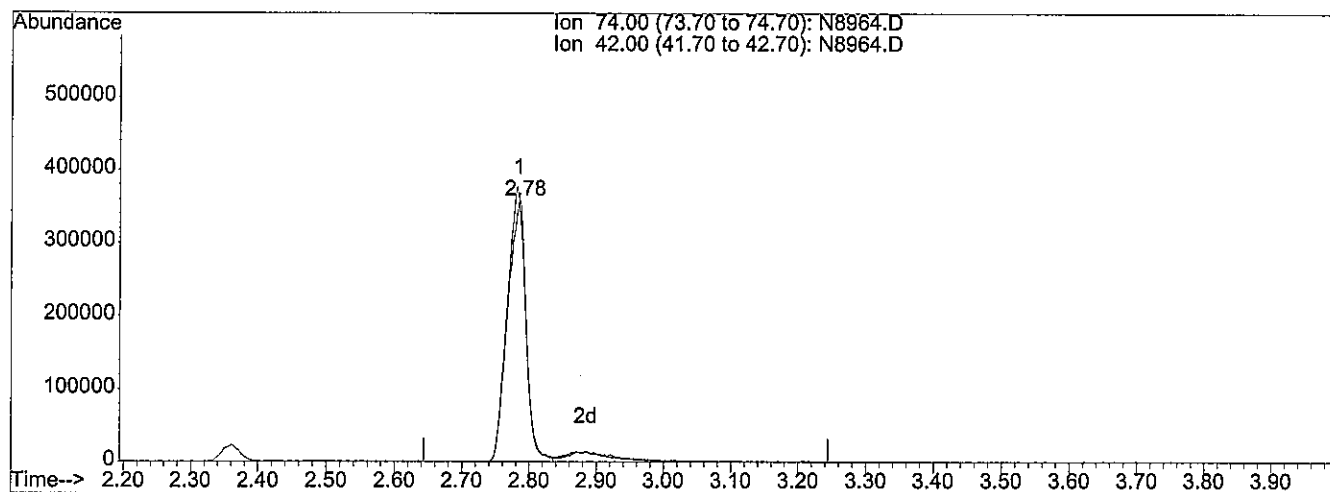
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.78min 76.11ng/uL

response 672158

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	109.06
0.00	0.00	0.00
0.00	0.00	0.00

Sefer

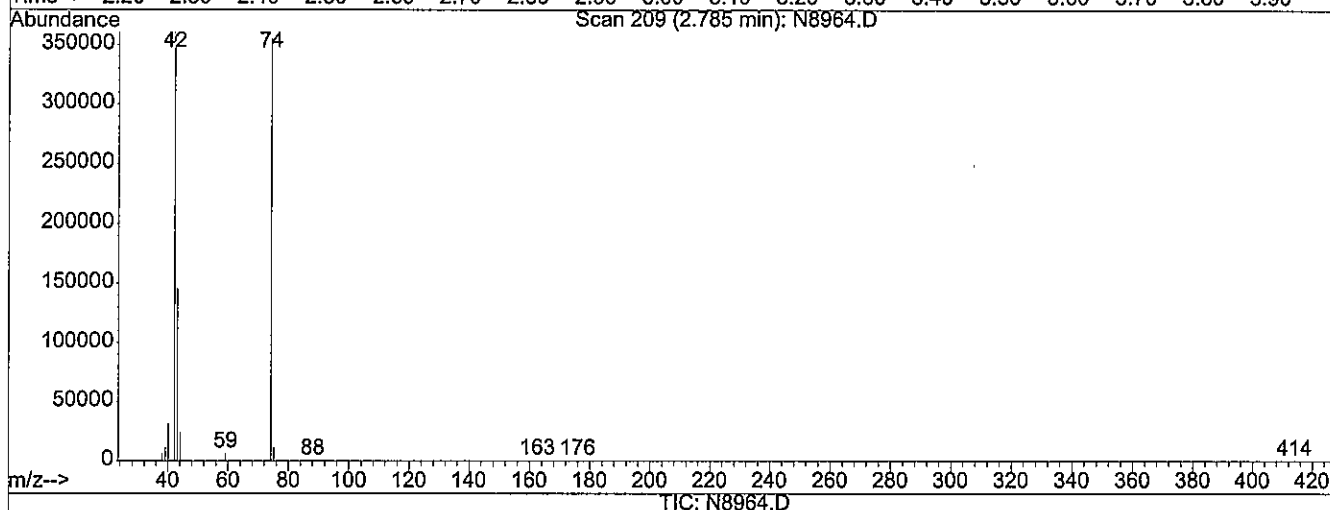
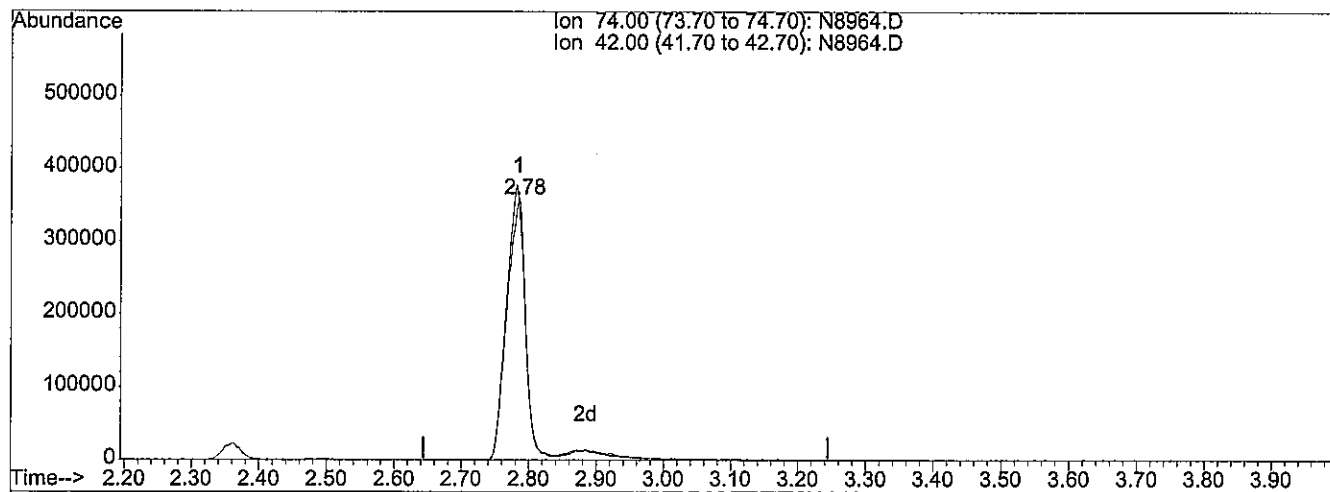
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D
 Acq On : 23 Dec 2013 14:33
 Sample : ICALSVSTD080
 Misc : ST130926-10
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 15:42 2013

Vial: 8
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 15:40:15 2013
 Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.78min 84.54ng/uL m

response 746612

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	98.18
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Vial: 8

Acq On : 23 Dec 2013 14:33

Operator: jk SOP 50

Sample : ICALSVSTD080

Inst : GC/MS Ins

Misc : ST130926-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:42 2013

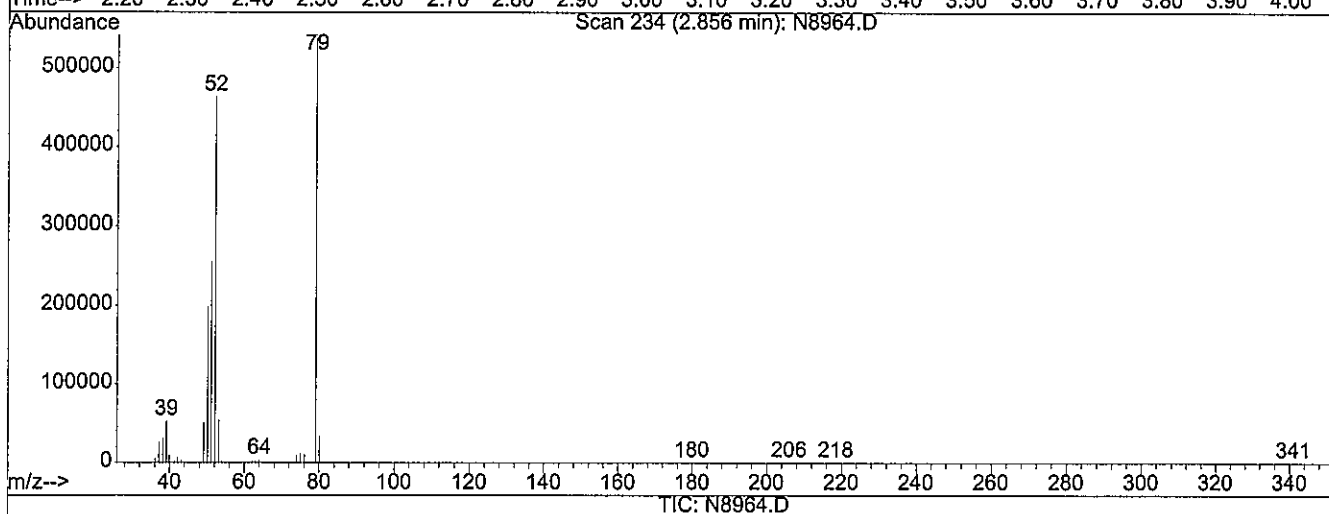
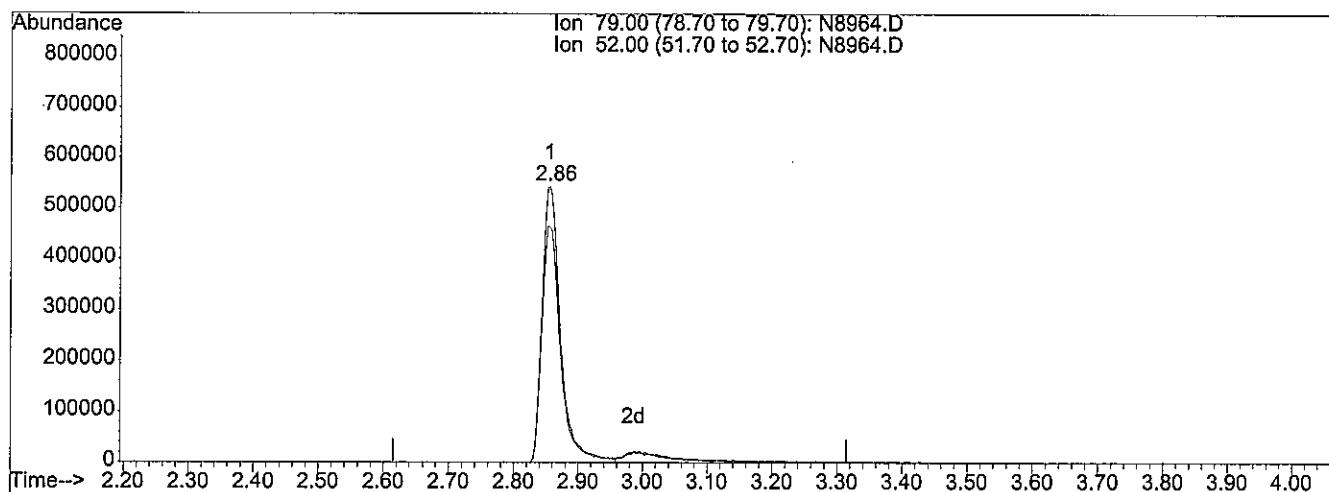
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Multiple Level Calibration



(4) Pyridine (T)

2.86min 75.03ng/uL

response 1077897

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	87.40
0.00	0.00	0.00
0.00	0.00	0.00

3cfm

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Vial: 8

Acq On : 23 Dec 2013 14:33

Operator: jk SOP 50

Sample : ICALSVSTD080

Inst : GC/MS Ins

Misc : ST130926-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:42 2013

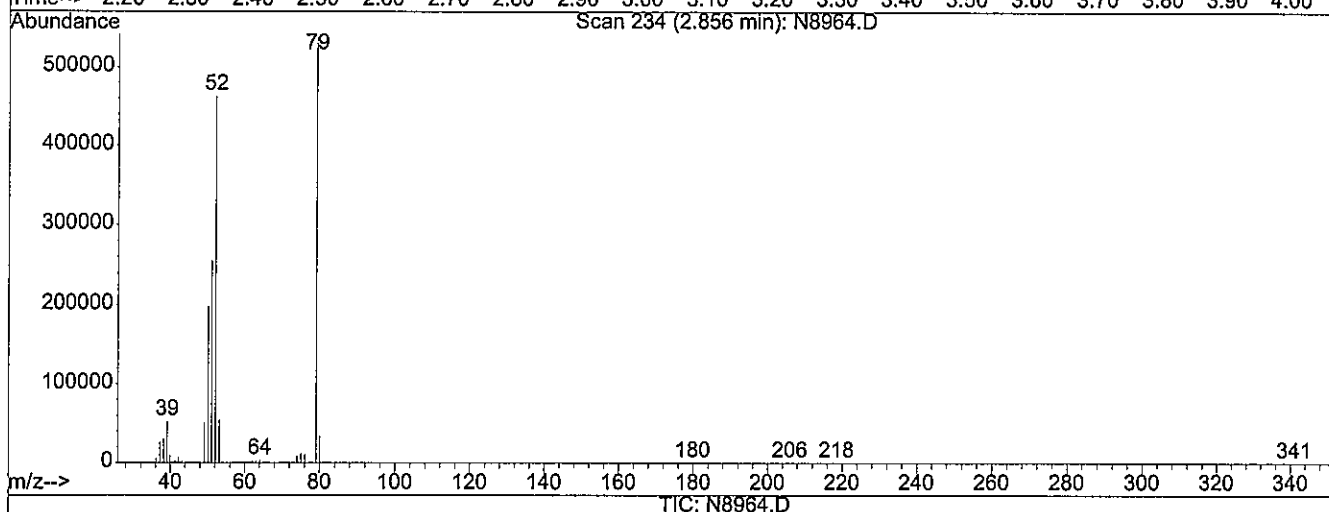
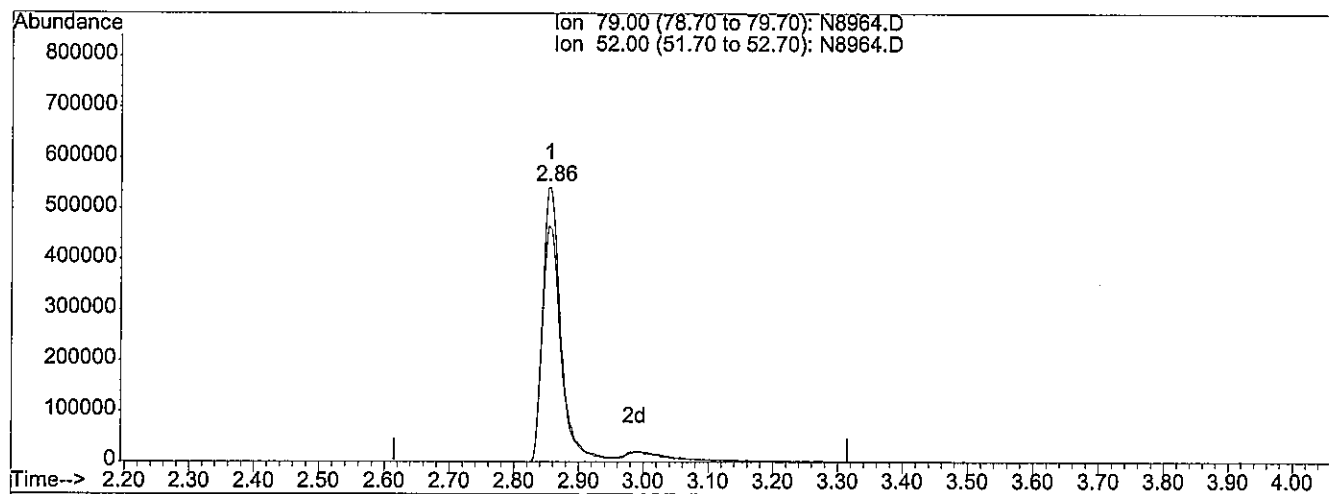
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Multiple Level Calibration



(4) Pyridine (T)

2.86min 84.76ng/uL m

response 1217605

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	77.37
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-26-13

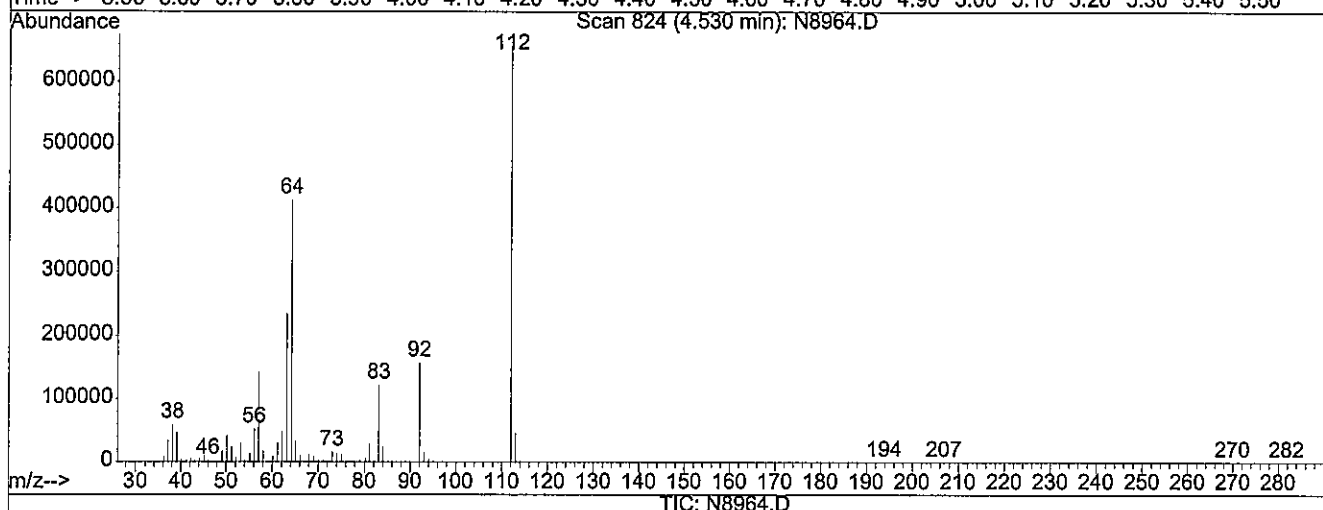
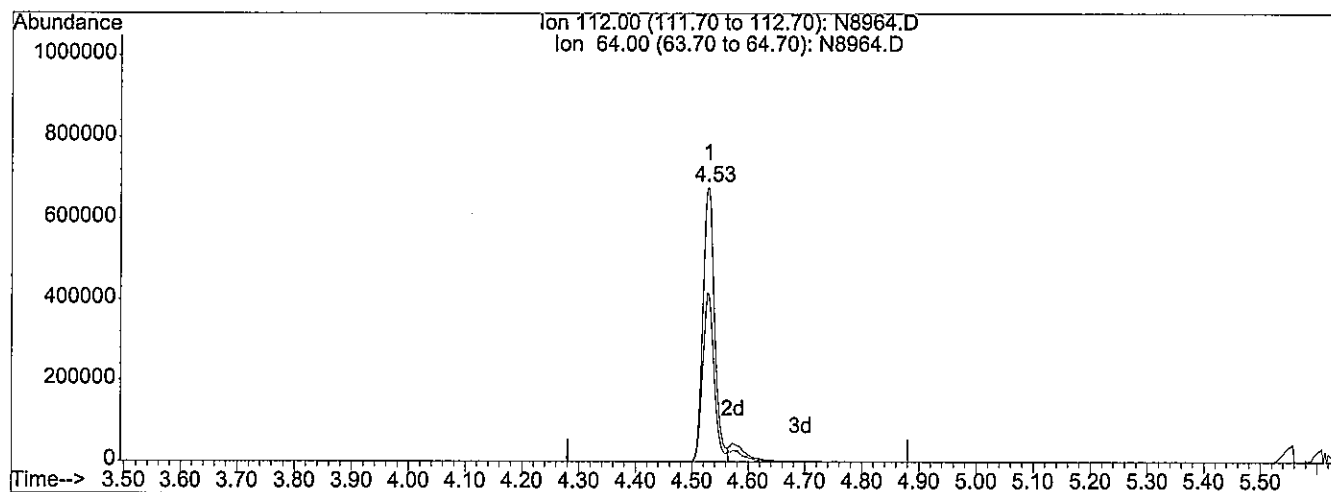
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D
 Acq On : 23 Dec 2013 14:33
 Sample : ICALSVSTD080
 Misc : ST130926-10
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 15:42 2013

Vial: 8
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 15:40:15 2013
 Response via : Multiple Level Calibration



(5) 2-Fluorophenol (S)

4.53min 76.52ng/uL

response 977543

Ion	Exp%	Act%
112.00	100	100
64.00	55.00	60.19
0.00	0.00	0.00
0.00	0.00	0.00

3efun

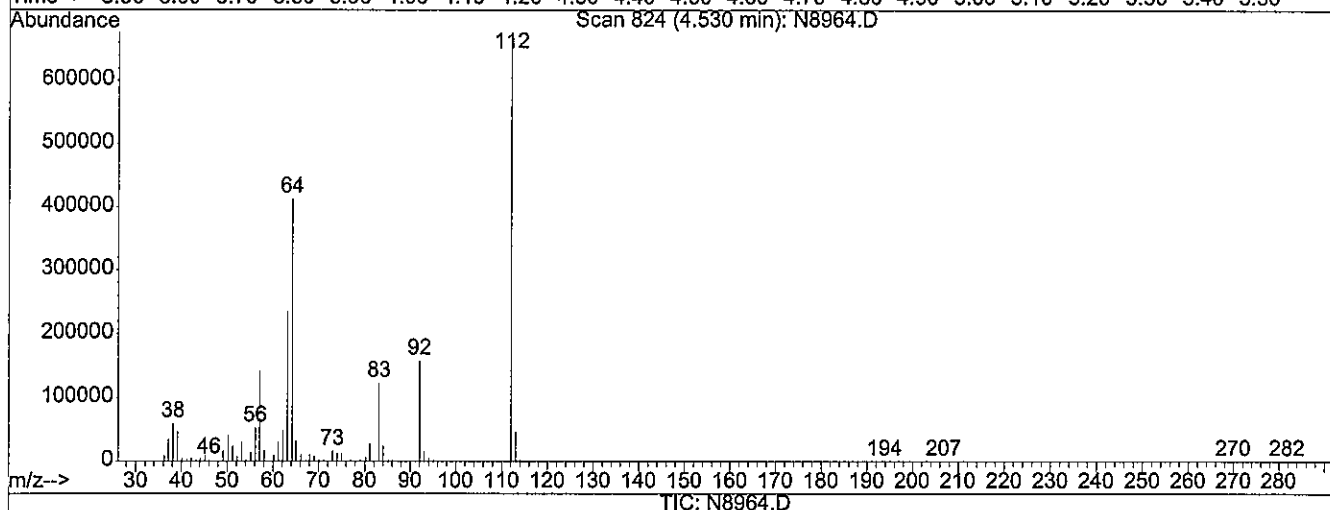
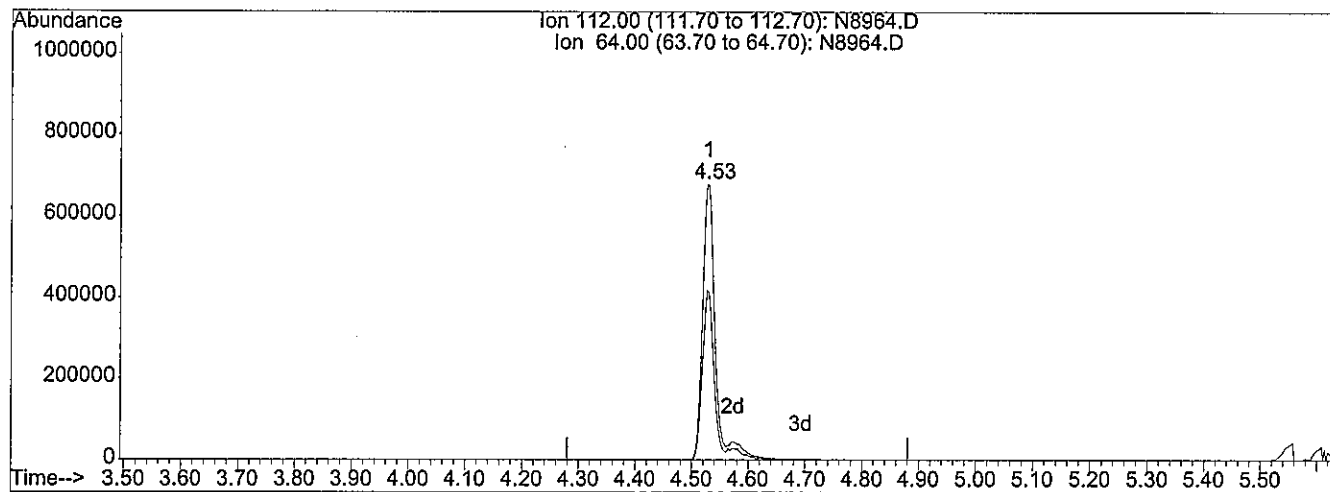
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D
 Acq On : 23 Dec 2013 14:33
 Sample : ICALSVSTD080
 Misc : ST130926-10
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 15:42 2013

Vial: 8
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 15:40:15 2013
 Response via : Multiple Level Calibration



(5) 2-Fluorophenol (S)

4.53min 84.26ng/uL m

response 1076470

Ion	Exp%	Act%
112.00	100	100
64.00	55.00	54.66
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Vial: 8

Acq On : 23 Dec 2013 14:33

Operator: jk SOP 50

Sample : ICALSVSTD080

Inst : GC/MS Ins

Misc : ST130926-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:42 2013

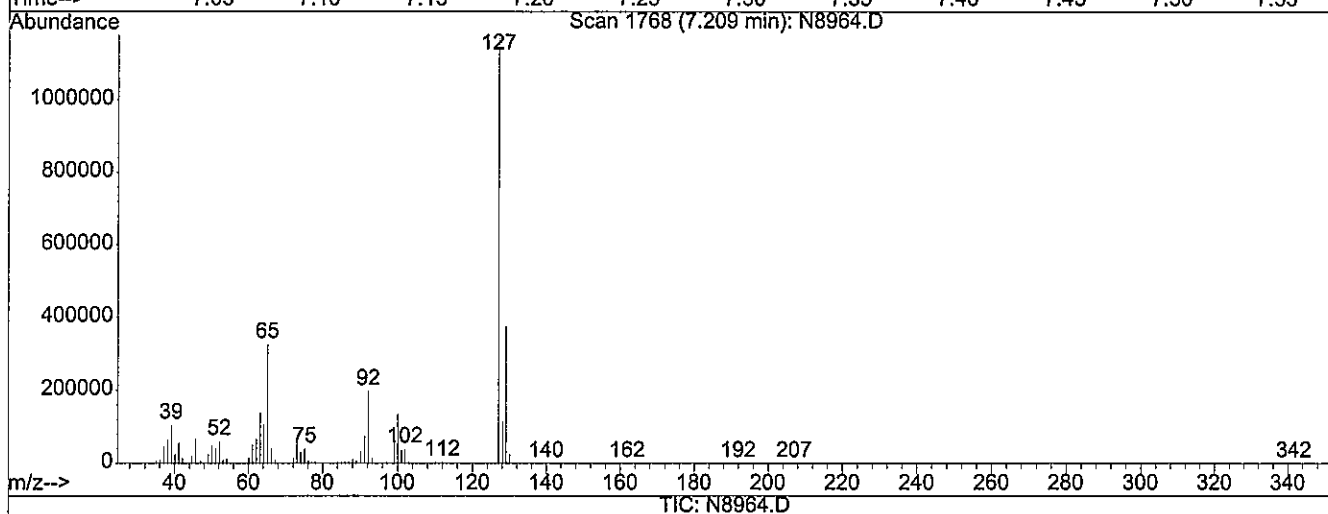
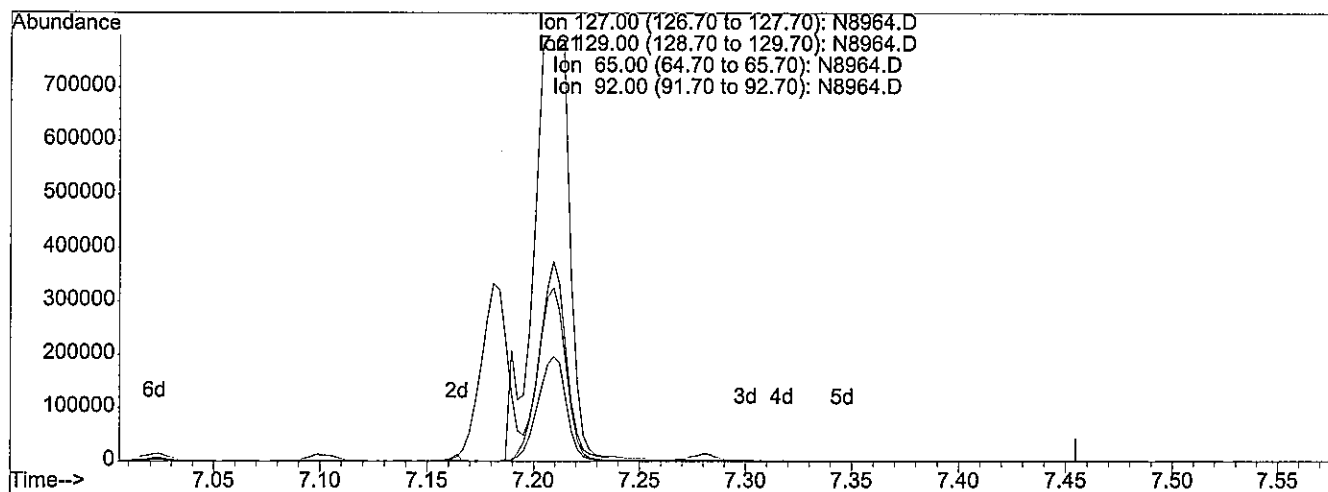
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 83.61ng/uL

response 1096491

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	30.24
65.00	29.50	27.85
92.00	18.50	17.00

3efor

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8964.D

Vial: 8

Acq On : 23 Dec 2013 14:33

Operator: jk SOP 50

Sample : ICALSVSTD080

Inst : GC/MS Ins

Misc : ST130926-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:42 2013

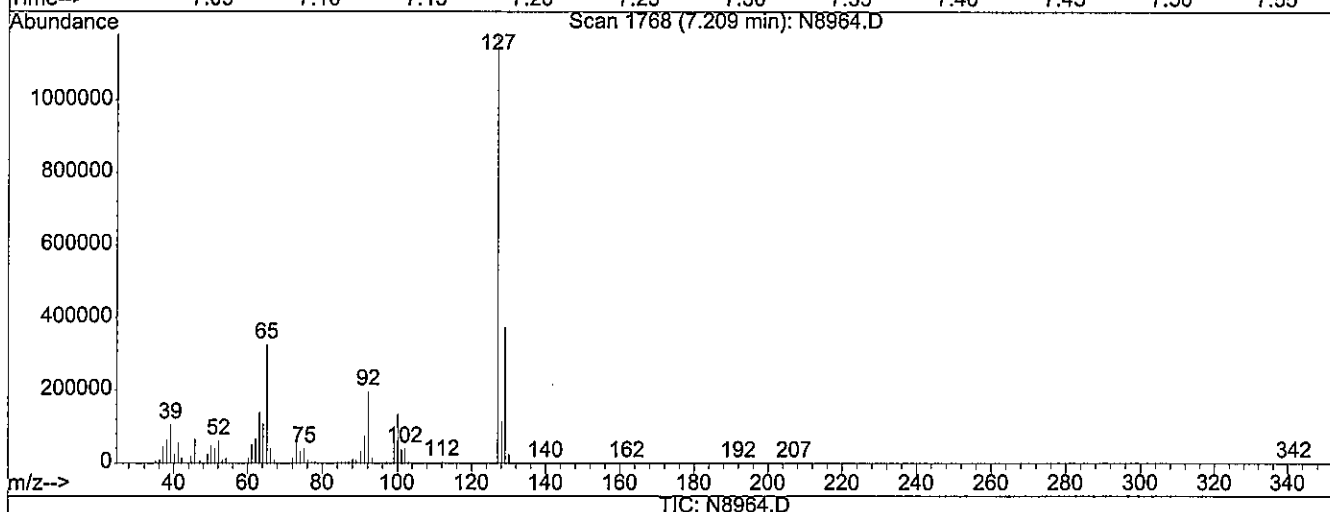
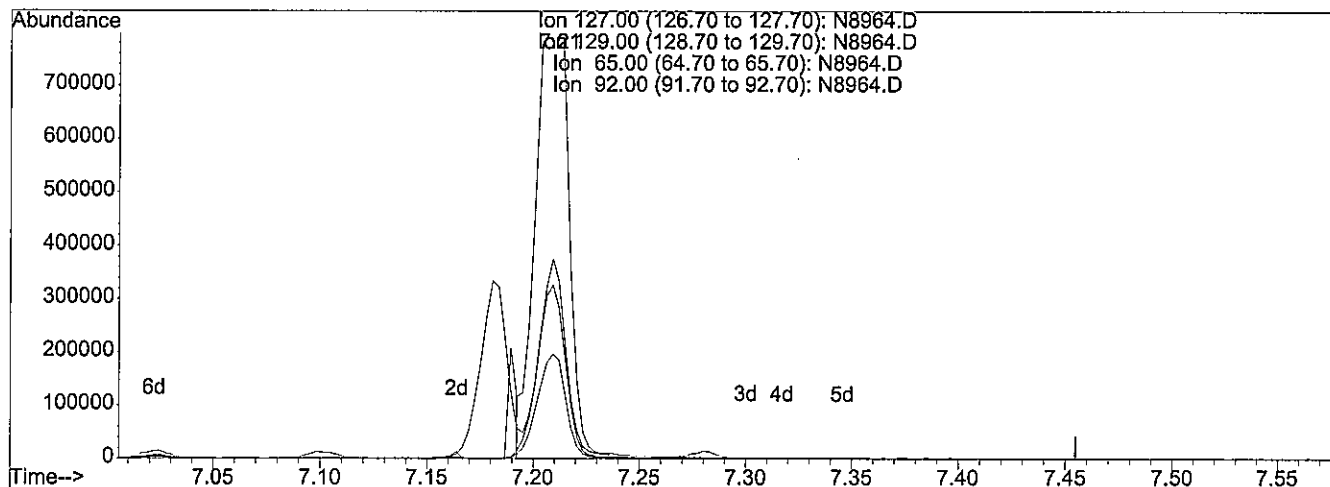
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:40:15 2013

Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 79.69ng/uL m

response 1045098

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	31.73
65.00	29.50	29.21
92.00	18.50	17.83

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ju date 12-26-13

Data File : D:\HPCHEM\1\DATA\122313\N8965.D

Vial: 9

Acq On : 23 Dec 2013 14:57

Operator: jk SOP 506 Rev

Sample : ICALSVSTD100

Inst : GC/MS Ins

Misc : ST130926-11

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:46 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:43:41 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.95	152	423024	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1637704	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	857538	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1699041	40.00	ng/uL	0.00
80) Chrysene-d12	12.28	240	1471121	40.00	ng/uL	0.00
91) Perylene-d12	13.73	264	797559	40.00	ng/uL	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	1547065	103.61	ng/uL	0.00
Spiked Amount	75.000	Range	46 - 105	Recovery	=	138.15%#
6) 2-Chlorophenol-d4	5.73	132	1323197	95.04	ng/uL	0.00
Spiked Amount	75.000	Range	33 - 110	Recovery	=	126.72%#
8) Phenol-d5	5.56	99	1851384	101.70	ng/uL	0.01
Spiked Amount	75.000	Range	50 - 109	Recovery	=	135.60%#
15) 1,2-Dichlorobenzene-d4	6.11	152	923384	85.78	ng/uL	0.00
Spiked Amount	50.000	Range	16 - 110	Recovery	=	171.56%#
25) Nitrobenzene-d5	6.49	82	1296612	92.50	ng/uL	0.00
Spiked Amount	50.000	Range	53 - 111	Recovery	=	185.00%#
46) 2-Fluorobiphenyl	8.10	172	2589704	87.28	ng/uL	0.00
Spiked Amount	50.000	Range	55 - 108	Recovery	=	174.56%#
68) 2,4,6-Tribromophenol	9.40	330	353535	102.23	ng/uL	0.00
Spiked Amount	75.000	Range	42 - 117	Recovery	=	136.31%#
83) p-Terphenyl-d14	11.33	244	3112722	94.83	ng/uL	0.00
Spiked Amount	50.000	Range	34 - 139	Recovery	=	189.66%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.38	88	746066m	105.22	ng/uL	
3) n-Nitrosodimethylamine	2.81	74	1050108	101.83	ng/uL	94
4) Pyridine	2.88	79	1671543	99.15	ng/uL	95
7) Aniline	5.61	93	1980345	99.67	ng/uL	99
9) Phenol	5.57	94	1909138	109.05	ng/uL	91
10) Tetramethylurea	5.70	72	2053681	93.22	ng/uL	98
11) Bis(2-chloroethyl)ether	5.66	93	1271243	91.86	ng/uL	98
12) 2-Chlorophenol	5.75	128	1347468	94.29	ng/uL	98
13) 1,3-Dichlorobenzene	5.89	146	1589749	97.18	ng/uL	100
14) 1,4-Dichlorobenzene	5.96	146	1489726	98.43	ng/uL	99
16) 1,2-Dichlorobenzene	6.12	146	1336811	94.91	ng/uL	99
17) Benzyl Alcohol	6.08	108	930730	103.08	ng/uL	99
18) 2-Methylphenol	6.17	107	1121541	99.49	ng/uL	99
19) Bis(2-chloroisopropyl)ethe	6.19	45	1926517	94.12	ng/uL	99
20) n-Nitroso-di-n-propylamine	6.33	70	852581	91.51	ng/uL	99
21) 3+4-Methylphenol	6.33	108	1295548	94.08	ng/uL	99

(#)=qualifier out of range (m)=manual integration

N8965.D 122313S1.M Mon Dec 23 15:47:02 2013

JK

122313

Page 1

138 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8965.D

Vial: 9

Acq On : 23 Dec 2013 14:57

Operator: jk SOP 506 Rev

Sample : ICALSVSTD100

Inst : GC/MS Ins

Misc : ST130926-11

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:46 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:43:41 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.32	106	1916727	96.74	ng/uL	99
23) Hexachloroethane	6.45	117	625125	100.21	ng/uL	99
26) N,N-Dimethylaniline	6.50	120	1845308	89.65	ng/uL	98
27) Nitrobenzene	6.51	77	1608704	88.34	ng/uL	98
28) Isophorone	6.73	82	2357377	92.07	ng/uL	99
29) N-Ethylaniline	6.74	106	2224756	90.43	ng/uL	99
30) 2-Nitrophenol	6.81	139	737927	104.12	ng/uL	96
31) 2,4-Dimethylphenol	6.82	107	1224115	90.30	ng/uL	99
32) Bis(2-chloroethoxy)methane	6.90	93	1497211	96.23	ng/uL	99
33) Benzoic acid	6.94	105	704623	113.58	ng/uL	95
34) 2,4-Dichlorophenol	7.03	162	1151580	97.03	ng/uL	99
35) 1,2,4-Trichlorobenzene	7.11	180	1277764	92.37	ng/uL	99
36) Naphthalene	7.19	128	3730941	96.70	ng/uL	98
37) 4-Chloroaniline	7.21	127	1453063m	96.32	ng/uL	
38) Hexachlorobutadiene	7.28	225	748162	91.69	ng/uL	99
39) 4-Chloro-3-methylphenol	7.63	107	1182874	96.47	ng/uL	98
40) 2-Methylnaphthalene	7.80	142	2557021	93.26	ng/uL	99
42) 1-Methylnaphthalene	7.89	142	2407164	89.32	ng/uL	99
43) Hexachlorocyclopentadiene	7.93	237	636542	101.66	ng/uL	100
44) 2,4,6-Trichlorophenol	8.04	196	875784	100.55	ng/uL	97
45) 2,4,5-Trichlorophenol	8.08	196	770818	90.46	ng/uL	99
47) 2-Chloronaphthalene	8.23	162	2355772	92.08	ng/uL	99
48) 2-Nitroaniline	8.31	65	708755	104.92	ng/uL	98
49) 1,4-Dinitrobenzene	8.41	168	455736	125.47	ng/uL	98
50) Dimethylphthalate	8.45	163	2602925	100.07	ng/uL	99
51) 1,3-Dinitrobenzene	8.49	168	477186	111.48	ng/uL	98
52) 2,6-Dinitrotoluene	8.51	165	563176	95.79	ng/uL#	82
53) 1,2-Dinitrobenzene	8.57	168	314966	106.69	ng/uL	97
54) Acenaphthylene	8.61	152	3543796	92.39	ng/uL	100
55) 3-Nitroaniline	8.67	138	665768	115.04	ng/uL	95
56) Acenaphthene	8.75	154	2161588	95.87	ng/uL	98
57) 2,4-Dinitrophenol	8.75	184	331038	132.32	ng/uL	59
58) 4-Nitrophenol	8.79	109	333965	113.56	ng/uL	98
59) Dibenzofuran	8.90	168	3123605	93.21	ng/uL	99
60) 2,4-Dinitrotoluene	8.86	165	836119	112.98	ng/uL	98
61) 2,3,5,6-Tetrachlorophenol	8.96	232	745538	110.57	ng/uL	99
62) 2,3,4,6-Tetrachlorophenol	9.00	232	704678	101.71	ng/uL	98
63) Diethylphthalate	9.03	149	2430867	97.78	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.16	204	1395132	96.71	ng/uL	99
65) 4-Nitroaniline	9.20	138	556139	109.68	ng/uL	97
66) Fluorene	9.19	166	2397122	95.31	ng/uL	99

(#) = qualifier out of range (m) = manual integration

N8965.D 122313S1.M Mon Dec 23 15:47:02 2013

Data File : D:\HPCHEM\1\DATA\122313\N8965.D

Vial: 9

Acq On : 23 Dec 2013 14:57

Operator: jk SOP 506 Rev

Sample : ICALSVSTD100

Inst : GC/MS Ins

Misc : ST130926-11

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:46 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:43:41 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.30	77	2253449	95.75	ng/uL	98
70) 4,6-Dinitro-2-methylphenol	9.22	198	483483	114.24	ng/uL	98
71) n-Nitrosodiphenylamine	9.27	169	2223418	92.14	ng/uL	99
72) 4-Bromophenyl phenyl ether	9.59	248	870616	92.12	ng/uL	98
73) Hexachlorobenzene	9.68	284	805241	89.17	ng/uL	99
74) Pentachlorophenol	9.83	266	575430	101.41	ng/uL	97
75) Phenanthrene	10.03	178	3789032	96.93	ng/uL	99
76) Anthracene	10.07	178	3767118	93.40	ng/uL	99
77) Carbazole	10.19	167	3686912	94.38	ng/uL	99
78) Di-n-butylphthalate	10.41	149	4591938	89.06	ng/uL	99
79) Fluoranthene	11.05	202	4782679	86.21	ng/uL	99
81) Benzidine	11.12	184	2404882	102.41	ng/uL	100
82) Pyrene	11.26	202	4618443	94.72	ng/uL	100
84) Butylbenzylphthalate	11.70	149	1881011	96.93	ng/uL	99
85) Bis(2-ethylhexyl) adipate	11.71	129	1325662	91.01	ng/uL	96
86) Bis(2-ethylhexyl)phthalate	12.15	149	2406283	96.48	ng/uL	100
87) 3,3'-Dichlorobenzidine	12.21	252	1383671	99.51	ng/uL	99
88) Benzo[a]anthracene	12.27	228	4053695	96.23	ng/uL	100
89) Chrysene	12.31	228	3634900	98.43	ng/uL	99
90) Di-n-octylphthalate	12.70	149	3644010	98.20	ng/uL	99
92) Benzo[b]fluoranthene	13.30	252	2844252	110.58	ng/uL	100
93) Benzo[k]fluoranthene	13.33	252	2553438	106.76	ng/uL	99
94) Benzo[a]pyrene	13.67	252	2266646	100.94	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.17	276	1597936	87.84	ng/uL	98
96) Dibenzo[a,h]anthracene	15.17	278	1464133	92.87	ng/uL	99
97) Benzo[g,h,i]perylene	15.61	276	1194715	79.10	ng/uL	99

(#) = qualifier out of range (m) = manual integration

N8965.D 122313S1.M Mon Dec 23 15:47:02 2013

Page 3

140 of 211

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8965.D

Vial: 9

Acq On : 23 Dec 2013 14:57

Operator: jk SOP 50

Sample : ICALSVSTD100

Inst : GC/MS Ins

Misc : ST130926-11

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:43 2013

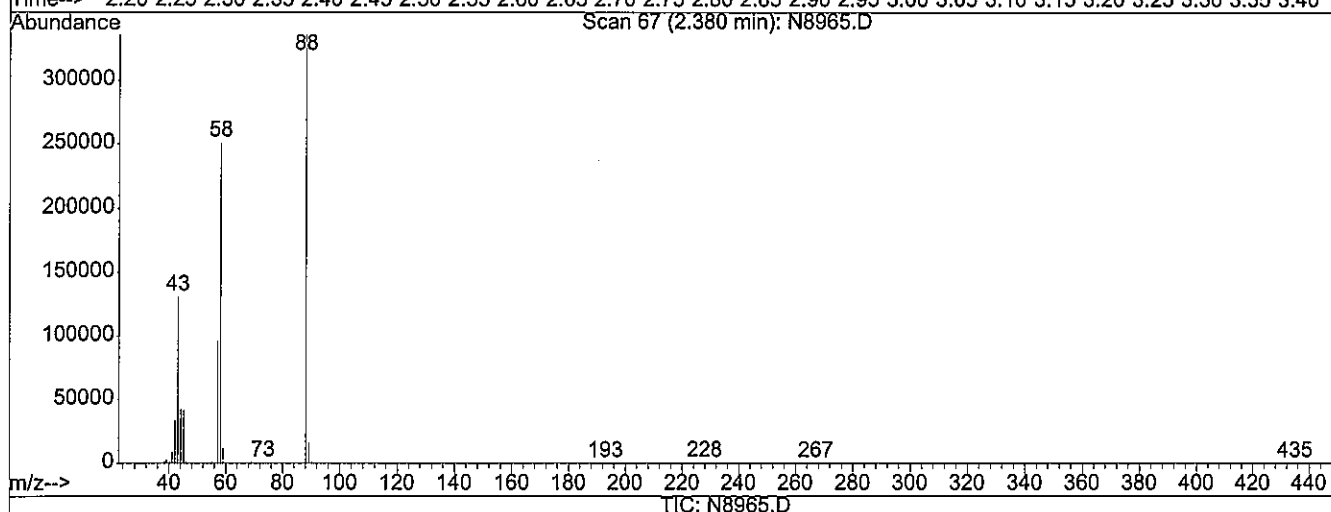
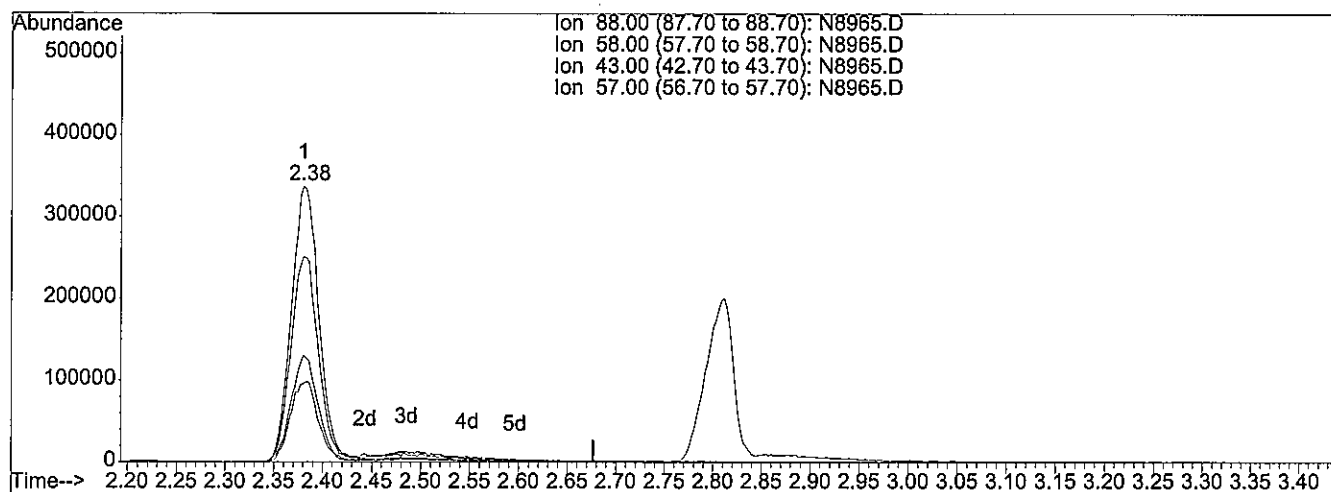
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:45:02 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 93.43ng/uL

response 662476

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	75.33
43.00	35.60	37.87
57.00	27.90	30.02

3cfar

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8965.D

Vial: 9

Acq On : 23 Dec 2013 14:57

Operator: jk SOP 50

Sample : ICALSVSTD100

Inst : GC/MS Ins

Misc : ST130926-11

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:45 2013

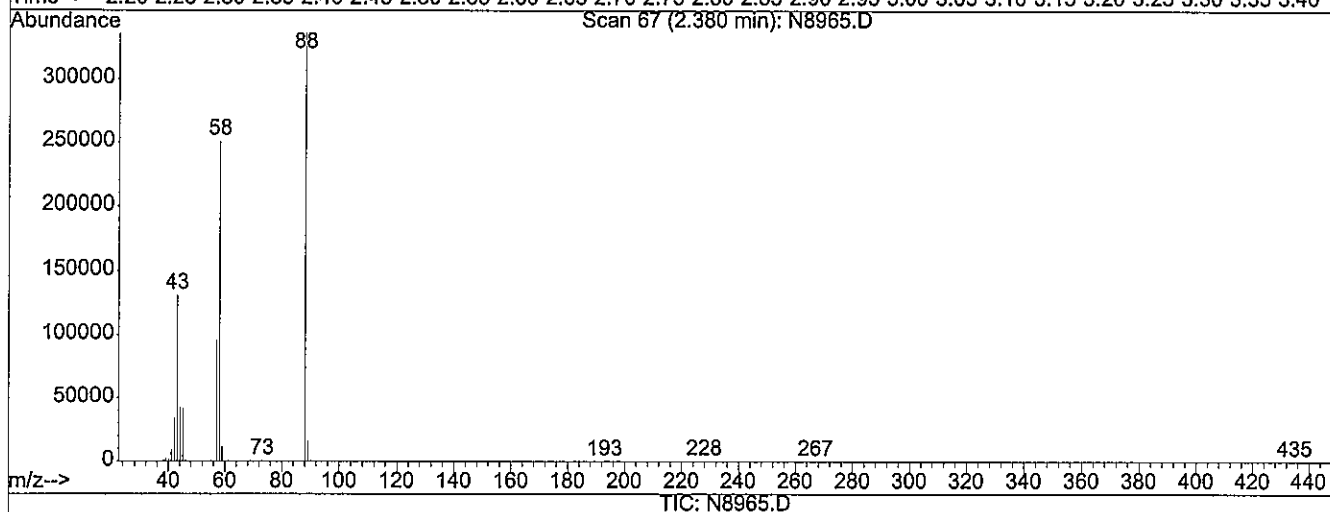
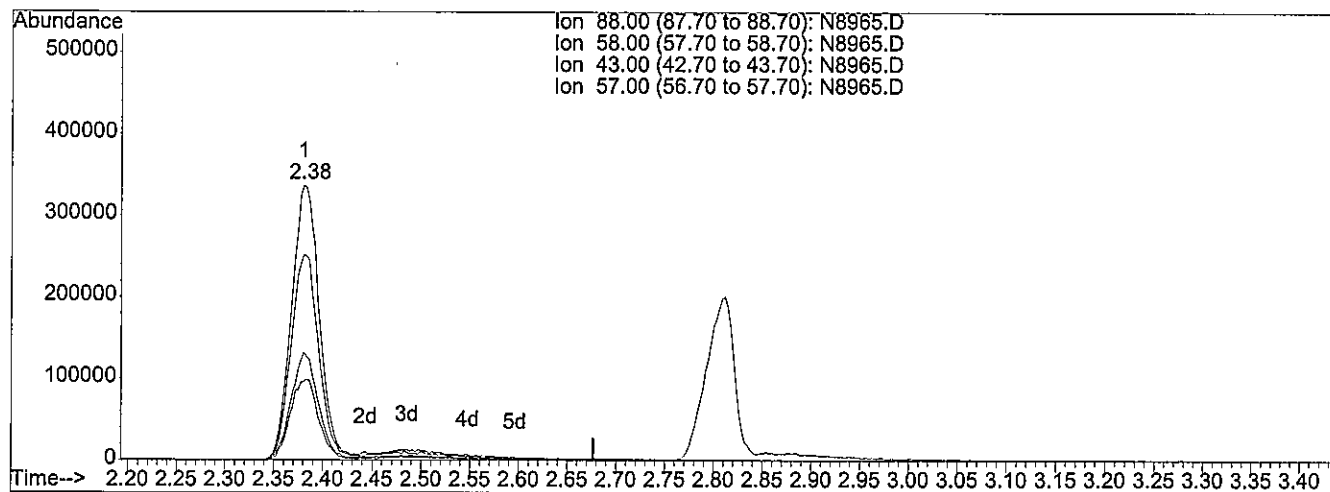
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:45:02 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 105.22ng/uL m

response 746066

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	66.89
43.00	35.60	33.63
57.00	27.90	26.66

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ja date 12-23-13

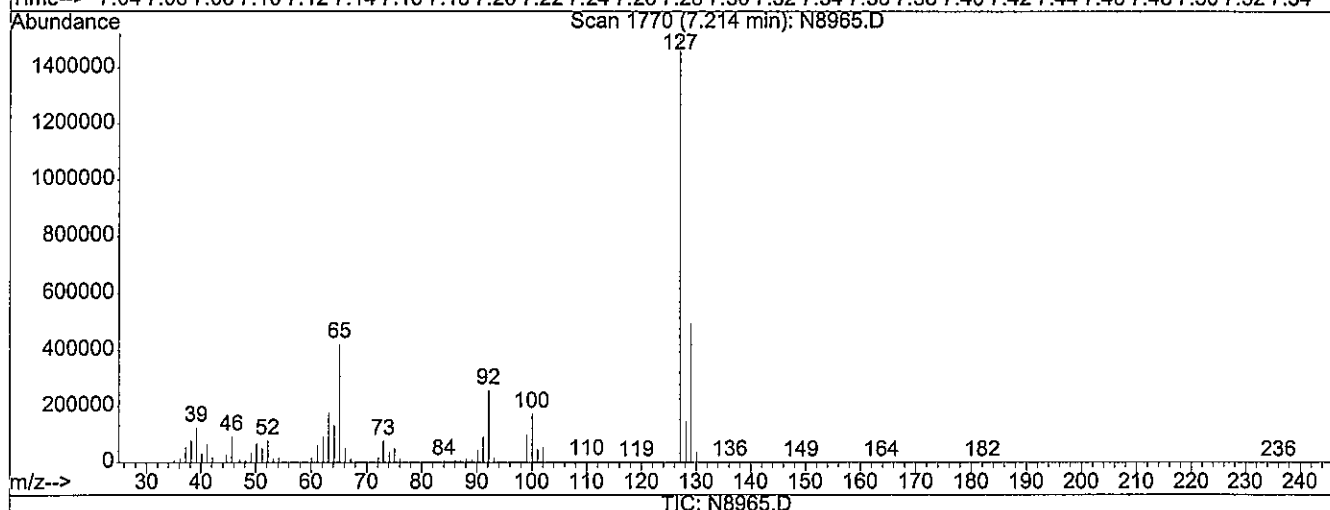
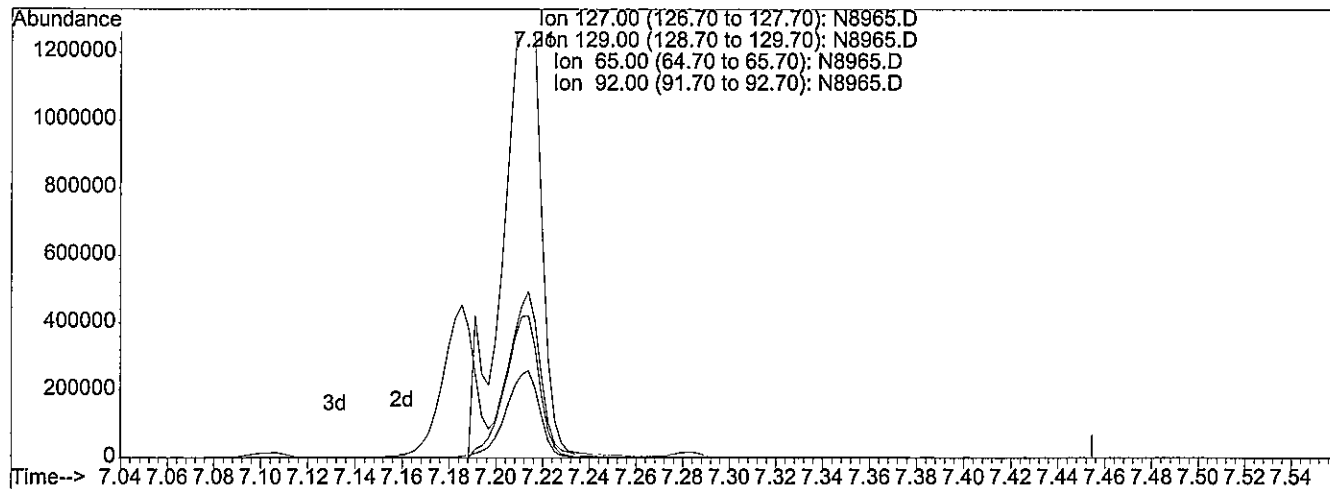
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8965.D
 Acq On : 23 Dec 2013 14:57
 Sample : ICALSVSTD100
 Misc : ST130926-11
 MS Integration Params: RTEINT.P
 Quant Time: Dec 23 15:45 2013

Vial: 9
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 15:45:02 2013
 Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 106.14ng/uL

response 1601297

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	29.32
65.00	29.50	26.82
92.00	18.50	16.61

Se for

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8965.D

Vial: 9

Acq On : 23 Dec 2013 14:57

Operator: jk SOP 50

Sample : ICALSVSTD100

Inst : GC/MS Ins

Misc : ST130926-11

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:46 2013

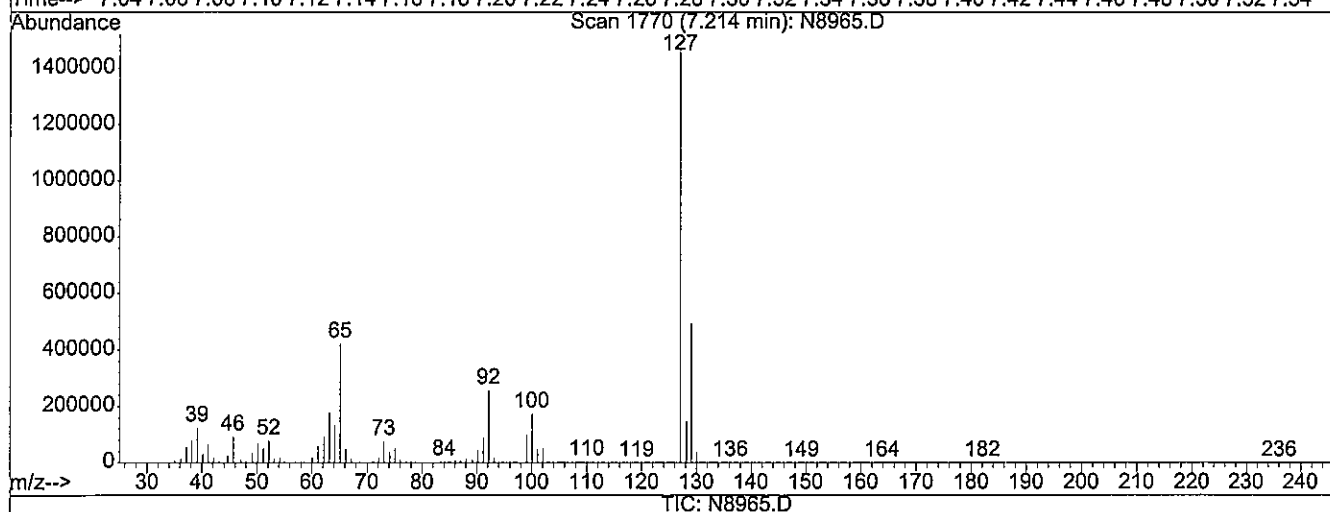
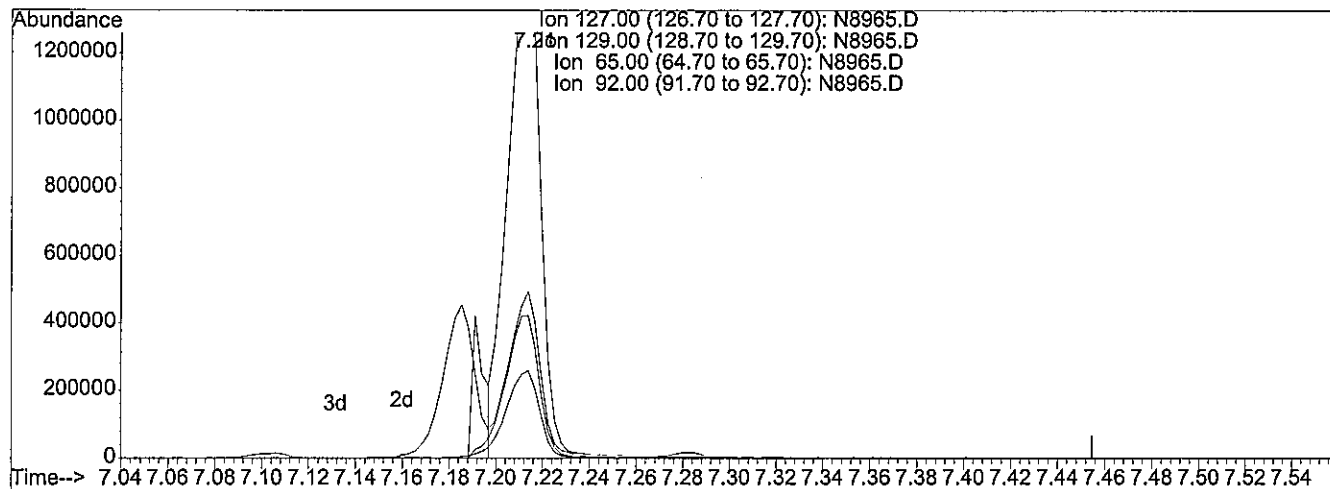
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:45:02 2013

Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 96.32ng/uL m

response 1453063

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	32.31
65.00	29.50	29.56
92.00	18.50	18.31

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 506 Rev

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:49 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:11 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	404040	40.00	ng/uL	0.00
24) Naphthalene-d8	7.17	136	1569001	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	810036	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.01	188	1639495	40.00	ng/uL	0.00
80) Chrysene-d12	12.29	240	1410070	40.00	ng/uL	0.02
91) Perylene-d12	13.74	264	748794	40.00	ng/uL	0.01

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	1686621	117.65	ng/uL	0.00
Spiked Amount	75.000	Range	46 - 105	Recovery	=	156.87%#
6) 2-Chlorophenol-d4	5.73	132	1457092	110.35	ng/uL	0.00
Spiked Amount	75.000	Range	33 - 110	Recovery	=	147.13%#
8) Phenol-d5	5.56	99	2038984	116.99	ng/uL	0.01
Spiked Amount	75.000	Range	50 - 109	Recovery	=	155.99%#
15) 1,2-Dichlorobenzene-d4	6.11	152	1017470	101.02	ng/uL	0.00
Spiked Amount	50.000	Range	16 - 110	Recovery	=	202.04%#
25) Nitrobenzene-d5	6.49	82	1430295	107.66	ng/uL	0.00
Spiked Amount	50.000	Range	53 - 111	Recovery	=	215.32%#
46) 2-Fluorobiphenyl	8.10	172	2866380	104.16	ng/uL	0.00
Spiked Amount	50.000	Range	55 - 108	Recovery	=	208.32%#
68) 2,4,6-Tribromophenol	9.40	330	397609	121.26	ng/uL	0.00
Spiked Amount	75.000	Range	42 - 117	Recovery	=	161.68%#
83) p-Terphenyl-d14	11.33	244	3428742	109.79	ng/uL	0.00
Spiked Amount	50.000	Range	34 - 139	Recovery	=	219.58%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.37	88	848785m	124.52	ng/uL	
3) n-Nitrosodimethylamine	2.80	74	1195180m	121.07	ng/uL	
4) Pyridine	2.87	79	1850781	115.08	ng/uL	100
7) Aniline	5.61	93	2310690	121.82	ng/uL	95
9) Phenol	5.58	94	2094095	123.64	ng/uL	92
10) Tetramethylurea	5.71	72	2381294m	114.27	ng/uL	
11) Bis(2-chloroethyl) ether	5.66	93	1394092m	106.71	ng/uL	
12) 2-Chlorophenol	5.75	128	1470877	108.65	ng/uL	98
13) 1,3-Dichlorobenzene	5.89	146	1757567	112.94	ng/uL	99
14) 1,4-Dichlorobenzene	5.96	146	1651308	114.49	ng/uL	99
16) 1,2-Dichlorobenzene	6.12	146	1467647	109.89	ng/uL	99
17) Benzyl Alcohol	6.08	108	1028659	118.76	ng/uL	98
18) 2-Methylphenol	6.18	107	1219556	113.36	ng/uL	99
19) Bis(2-chloroisopropyl) ether	6.19	45	2096835	108.16	ng/uL	99
20) n-Nitroso-di-n-propylamine	6.33	70	932703	106.10	ng/uL	98
21) 3+4-Methylphenol	6.33	108	1434221	109.98	ng/uL	98

(#)=qualifier out of range (m)=manual integration

N8966.D 122313S1.M Mon Dec 23 15:49:59 2013

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12-16-0

Page 1

146 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 506 Rev

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:49 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:11 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.32	106	2175410	115.49	ng/uL	97
23) Hexachloroethane	6.45	117	678689	113.88	ng/uL	99
26) N,N-Dimethylaniline	6.51	120	2095463	107.86	ng/uL	99
27) Nitrobenzene	6.51	77	1777323	103.60	ng/uL	98
28) Isophorone	6.73	82	2604369	107.39	ng/uL	99
29) N-Ethylaniline	6.74	106	2498352	107.47	ng/uL	99
30) 2-Nitrophenol	6.80	139	824758	120.76	ng/uL	96
31) 2,4-Dimethylphenol	6.82	107	1373989	107.28	ng/uL	99
32) Bis(2-chloroethoxy)methane	6.90	93	1647222	111.11	ng/uL	99
33) Benzoic acid	6.95	105	878516	143.90	ng/uL	97
34) 2,4-Dichlorophenol	7.03	162	1265973	111.81	ng/uL	99
35) 1,2,4-Trichlorobenzene	7.11	180	1411300	107.66	ng/uL	99
36) Naphthalene	7.18	128	4154938	112.94	ng/uL#	98
37) 4-Chloroaniline	7.21	127	1622907	112.88	ng/uL	100
38) Hexachlorobutadiene	7.28	225	826764	107.03	ng/uL	99
39) 4-Chloro-3-methylphenol	7.62	107	1304976	111.65	ng/uL	98
40) 2-Methylnaphthalene	7.80	142	2837156	109.06	ng/uL	98
42) 1-Methylnaphthalene	7.89	142	2685975	107.15	ng/uL	99
43) Hexachlorocyclopentadiene	7.94	237	726395	122.52	ng/uL	98
44) 2,4,6-Trichlorophenol	8.04	196	958856	116.45	ng/uL	99
45) 2,4,5-Trichlorophenol	8.08	196	856650	107.90	ng/uL	98
47) 2-Chloronaphthalene	8.23	162	2637686	110.39	ng/uL	99
48) 2-Nitroaniline	8.31	65	777588	121.01	ng/uL	97
49) 1,4-Dinitrobenzene	8.41	168	513870	144.52	ng/uL	97
50) Dimethylphthalate	8.45	163	2847603	115.89	ng/uL	99
51) 1,3-Dinitrobenzene	8.49	168	549320	133.66	ng/uL	95
52) 2,6-Dinitrotoluene	8.51	165	627001	113.58	ng/uL#	83
53) 1,2-Dinitrobenzene	8.57	168	351346	124.80	ng/uL	97
54) Acenaphthylene	8.61	152	3964153	110.61	ng/uL	99
55) 3-Nitroaniline	8.67	138	748093	133.97	ng/uL	97
56) Acenaphthene	8.75	154	2422607	114.43	ng/uL	97
57) 2,4-Dinitrophenol	8.75	184	388760	154.52	ng/uL	51
58) 4-Nitrophenol	8.79	109	373374	130.85	ng/uL	98
59) Dibenzofuran	8.90	168	3462231	110.44	ng/uL	99
60) 2,4-Dinitrotoluene	8.87	165	924282	129.81	ng/uL	98
61) 2,3,5,6-Tetrachlorophenol	8.96	232	814540	125.68	ng/uL	99
62) 2,3,4,6-Tetrachlorophenol	9.00	232	777797	118.51	ng/uL	96
63) Diethylphthalate	9.04	149	2749096	117.44	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.16	204	1516995	111.85	ng/uL	98
65) 4-Nitroaniline	9.21	138	616350	126.92	ng/uL	97
66) Fluorene	9.20	166	2657074	112.59	ng/uL	98

(#)= qualifier out of range (m) = manual integration

N8966.D 122313S1.M Mon Dec 23 15:50:00 2013

Page 2

147 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 506 Rev

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:49 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:11 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.30	77	2490887	112.73	ng/uL	98
70) 4,6-Dinitro-2-methylphenol	9.22	198	538442	128.20	ng/uL	96
71) n-Nitrosodiphenylamine	9.27	169	2498030	108.50	ng/uL	99
72) 4-Bromophenyl phenyl ether	9.59	248	956036	106.03	ng/uL	99
73) Hexachlorobenzene	9.68	284	881271	102.73	ng/uL	99
74) Pentachlorophenol	9.84	266	649573	118.30	ng/uL	100
75) Phenanthrene	10.03	178	4089427	108.89	ng/uL	100
76) Anthracene	10.08	178	4118496	106.83	ng/uL	99
77) Carbazole	10.19	167	4042088	108.10	ng/uL	99
78) Di-n-butylphthalate	10.41	149	4899339	100.04	ng/uL	99
79) Fluoranthene	11.05	202	5183924	98.78	ng/uL	100
81) Benzidine	11.12	184	2821559	124.92	ng/uL	100
82) Pyrene	11.26	202	5025831	108.35	ng/uL	100
84) Butylbenzylphthalate	11.70	149	2084629	112.56	ng/uL	99
85) Bis(2-ethylhexyl) adipate	11.71	129	1489162	108.05	ng/uL	95
86) Bis(2-ethylhexyl)phthalate	12.15	149	2730185	114.78	ng/uL	100
87) 3,3'-Dichlorobenzidine	12.22	252	1573531	118.15	ng/uL	100
88) Benzo[a]anthracene	12.28	228	4506889	112.22	ng/uL	100
89) Chrysene	12.32	228	4051177	114.71	ng/uL	99
90) Di-n-octylphthalate	12.71	149	4095085	115.43	ng/uL	99
92) Benzo[b]fluoranthene	13.31	252	3016725	123.06	ng/uL	99
93) Benzo[k]fluoranthene	13.34	252	2599698	114.66	ng/uL	99
94) Benzo[a]pyrene	13.68	252	2441744	115.67	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.19	276	1619626	96.51	ng/uL	98
96) Dibenzo[a,h]anthracene	15.18	278	1490899	101.76	ng/uL	98
97) Benzo[g,h,i]perylene	15.63	276	1221584	88.79	ng/uL	100

(#) = qualifier out of range (m) = manual integration

N8966.D 122313S1.M Mon Dec 23 15:50:00 2013

Page 3

148 of 211

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Acq On : 23 Dec 2013 15:22

Sample : ICALSVSTD120

Misc : ST130926-12

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:47 2013

Vial: 10

Operator: jk SOP 50

Inst : GC/MS Ins

Multiplr: 1.00

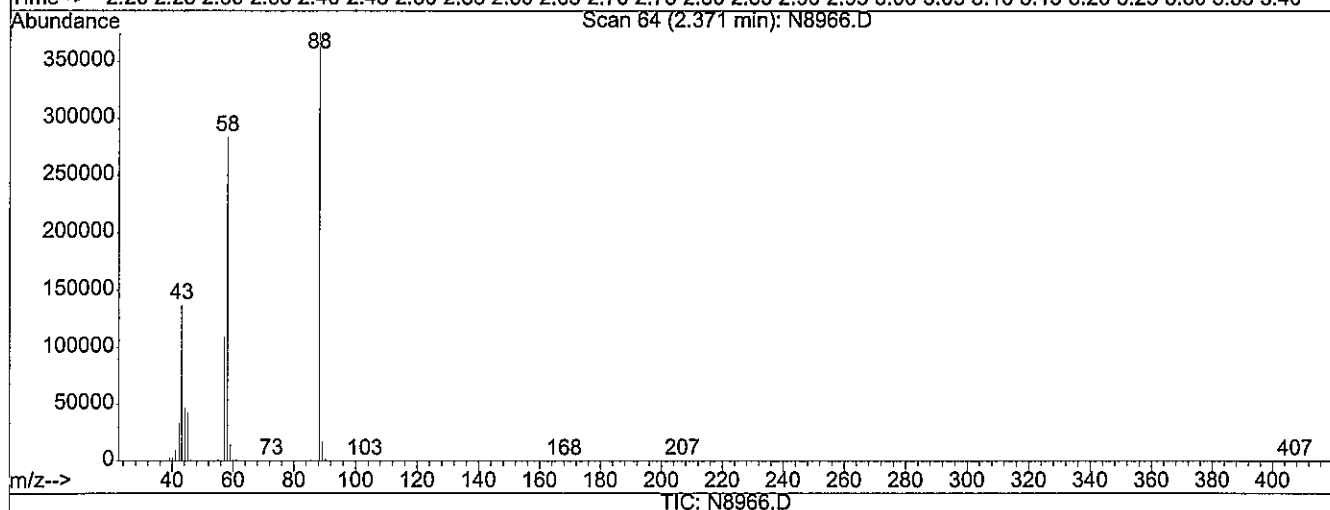
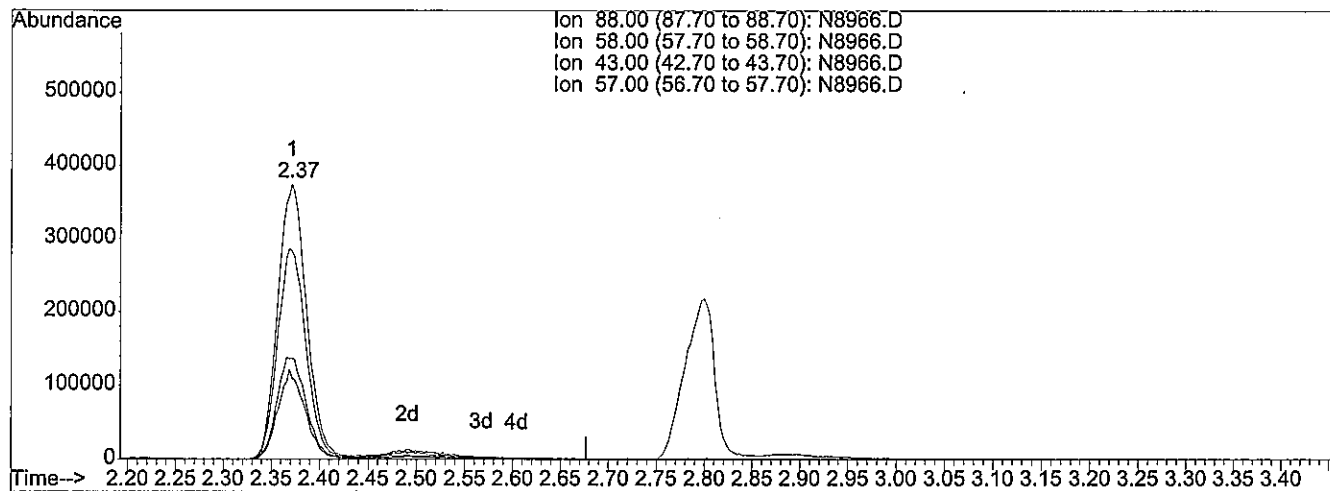
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:55 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.37min 115.59ng/uL

response 787898

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	75.86
43.00	35.60	37.70
57.00	27.90	30.11

3.60e

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 50

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:48 2013

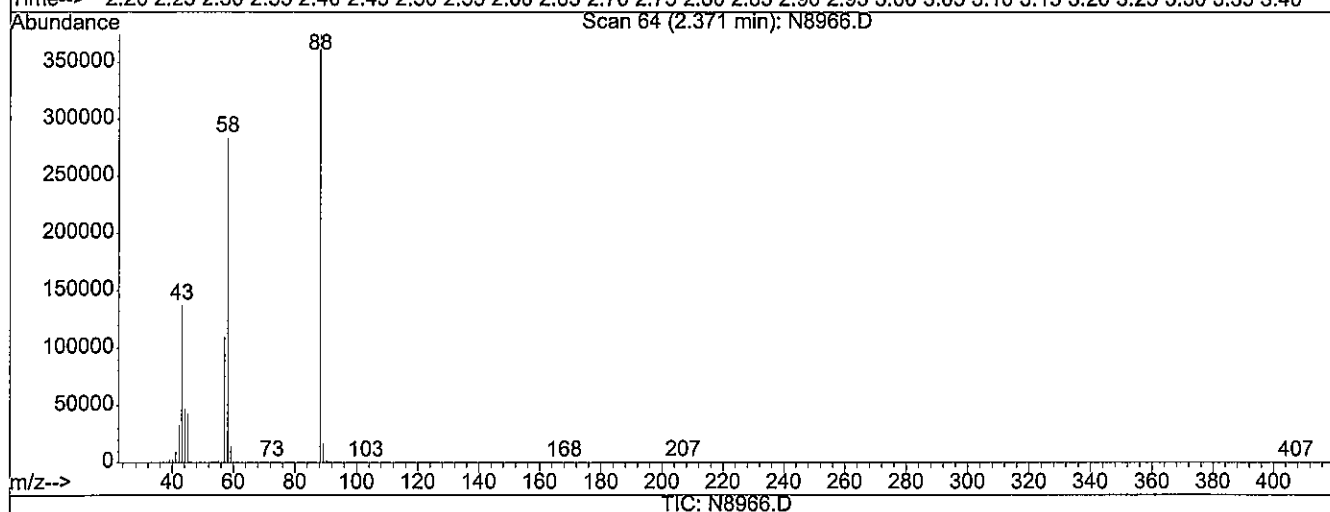
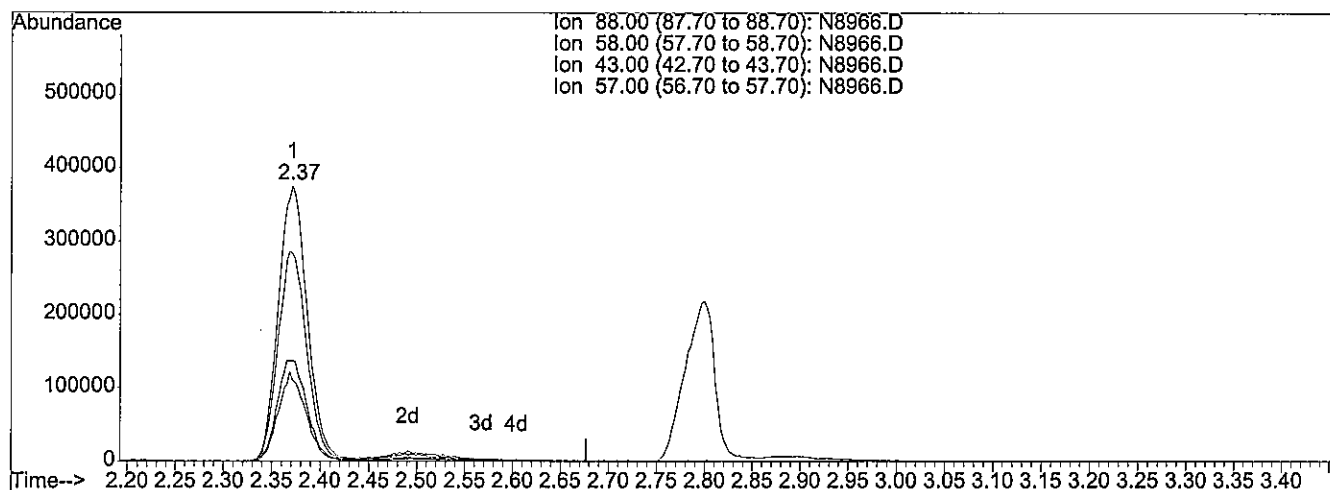
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:55 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.37min 124.52ng/uL m

response 848785

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	70.42
43.00	35.60	34.99
57.00	27.90	27.95

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-24-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 50

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:48 2013

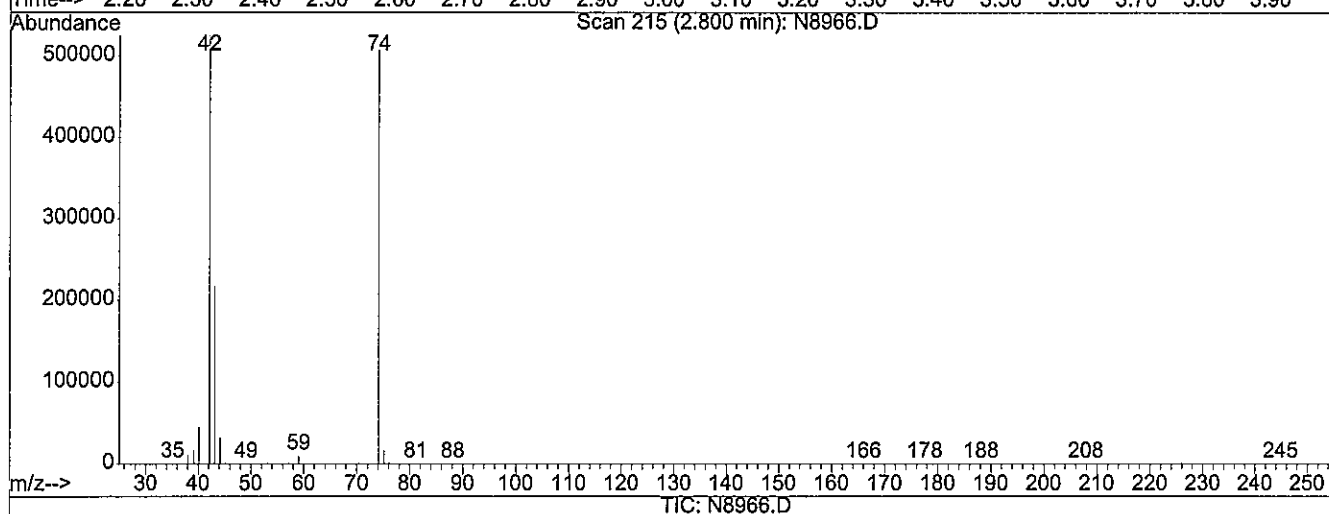
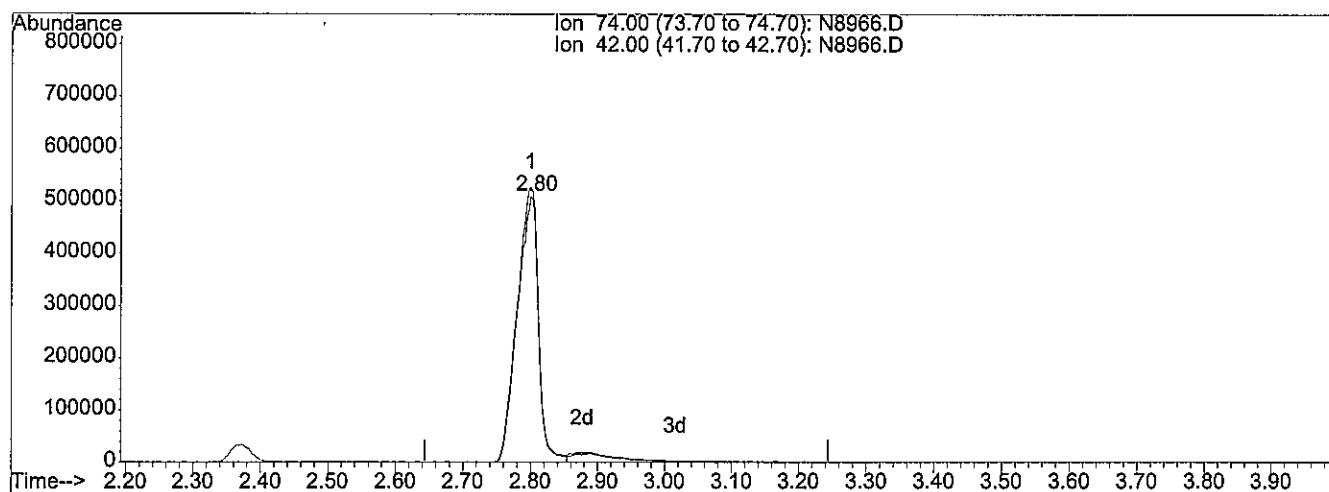
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:55 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.80min 111.14ng/uL

response 1097127

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	106.11
0.00	0.00	0.00
0.00	0.00	0.00

30 Jan

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 50

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:48 2013

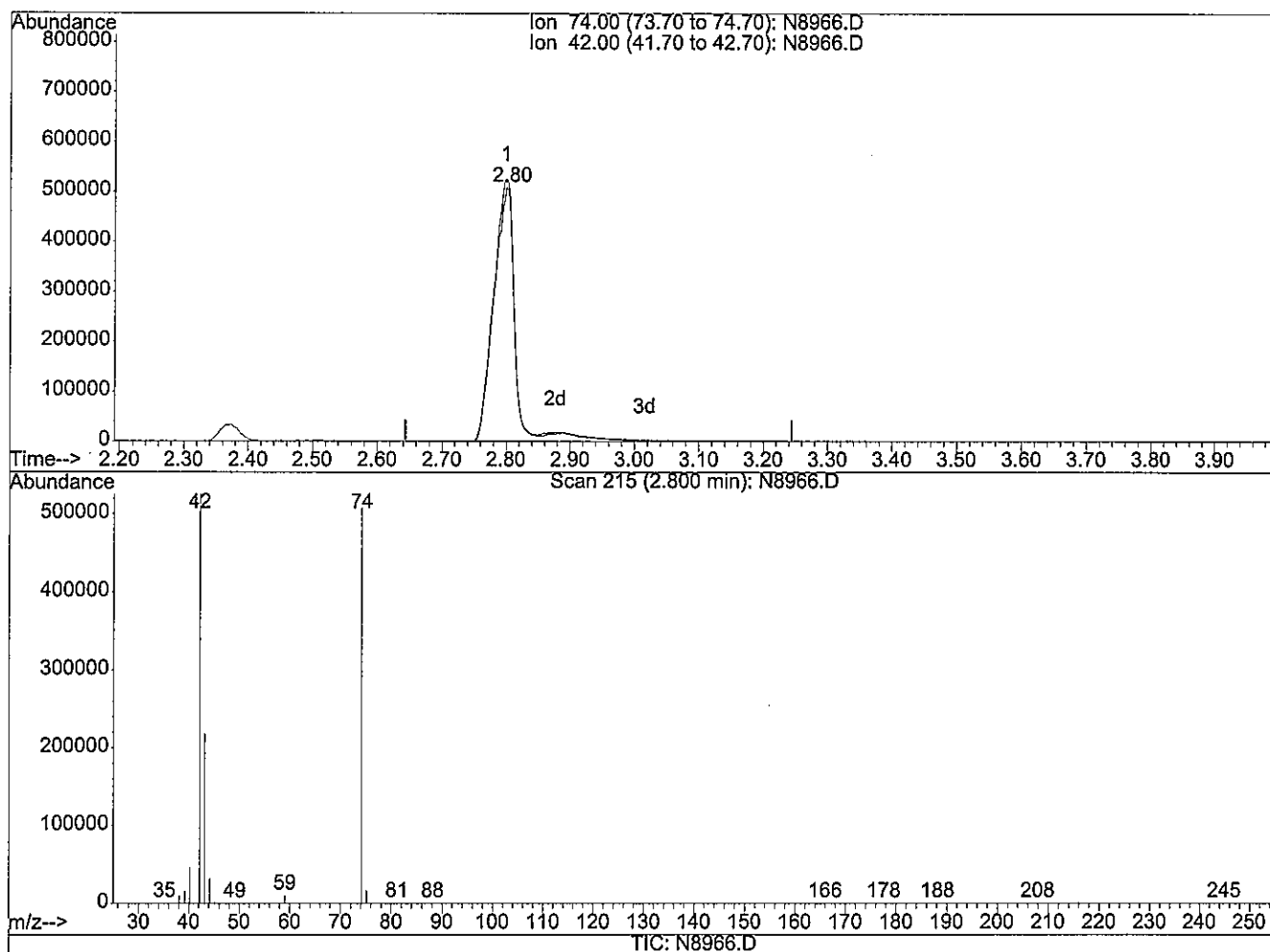
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:55 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.80min 121.07ng/uL m

response 1195180

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	97.41
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials AL date 12-23-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 50

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:48 2013

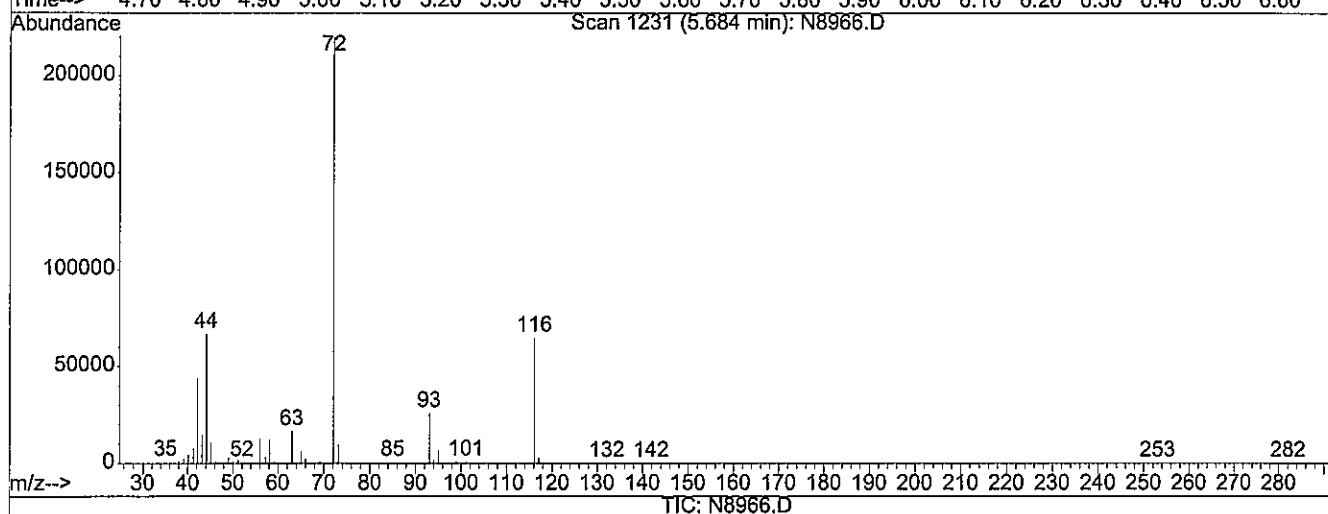
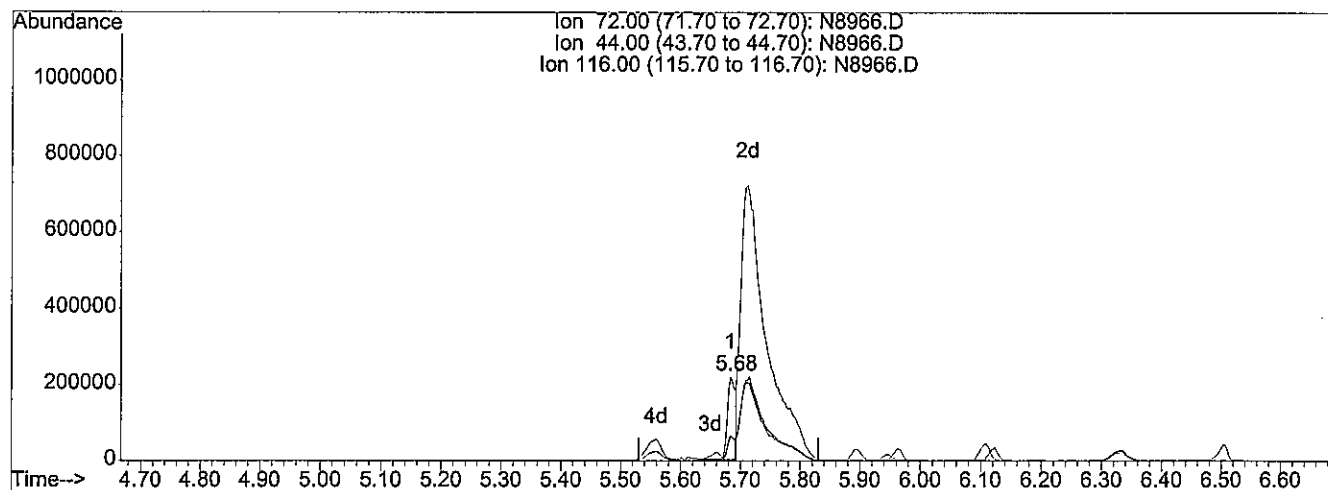
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:55 2013

Response via : Multiple Level Calibration



(10) Tetramethylurea (T)

5.68min 9.42ng/uL

response 196263

Ion	Exp%	Act%
72.00	100	100
44.00	30.20	24.01
116.00	28.90	29.16
0.00	0.00	0.00

Zefer

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 50

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:48 2013

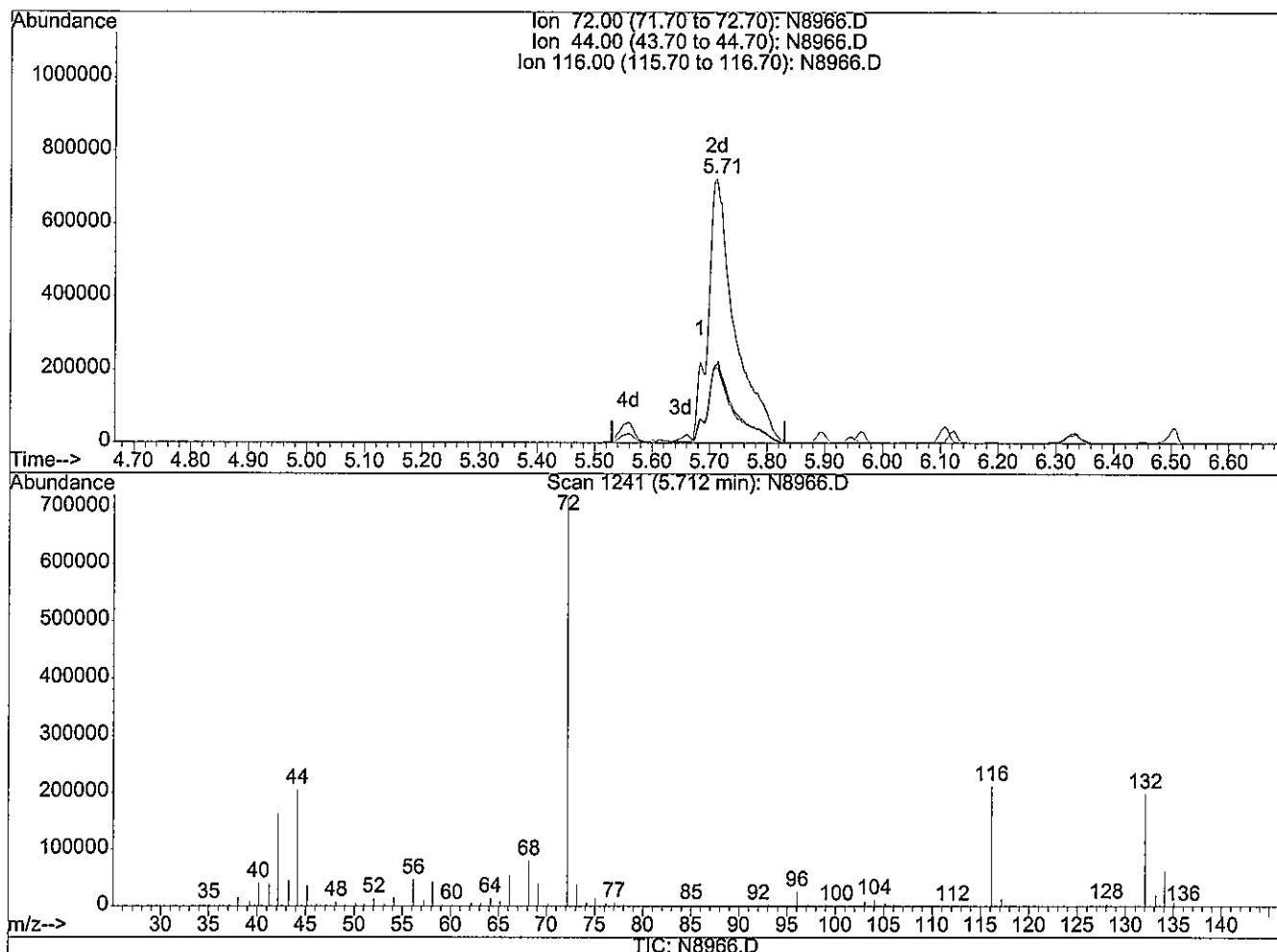
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:55 2013

Response via : Multiple Level Calibration



(10) Tetramethylurea (T)

5.71min 114.27ng/uL m

response 2381294

Ion	Exp%	Act%
72.00	100	100
44.00	30.20	1.98#
116.00	28.90	2.40#
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☒ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials ju date 11-26-17

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 50

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:48 2013

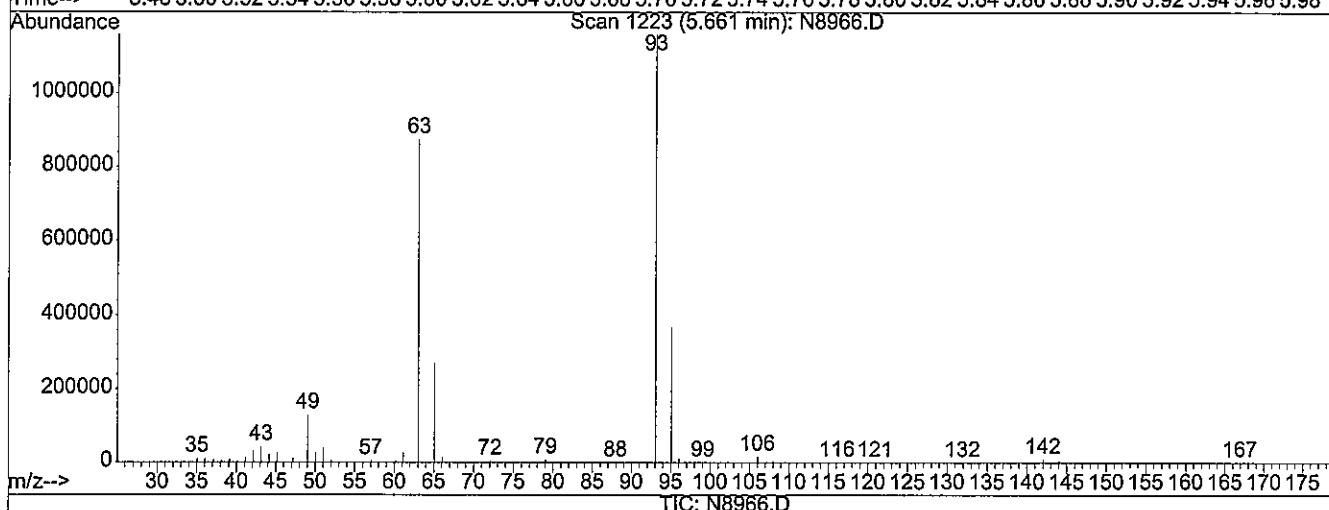
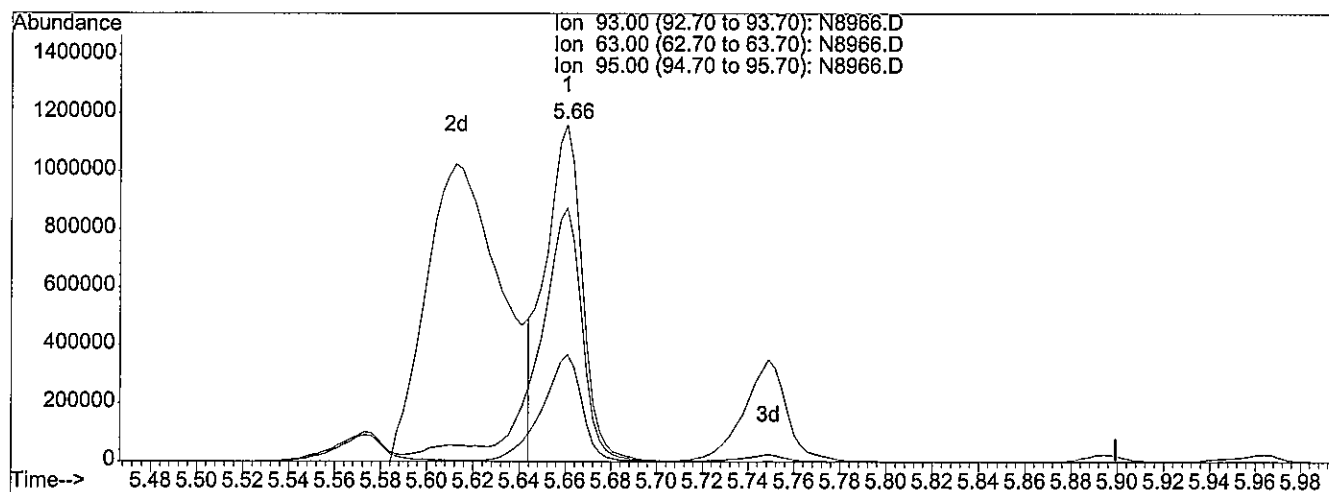
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:55 2013

Response via : Multiple Level Calibration



(11) Bis(2-chloroethyl)ether (T)

5.66min 100.26ng/uL

response 1309800

Ion	Exp%	Act%
93.00	100	100
63.00	78.10	84.27
95.00	32.10	34.28
0.00	0.00	0.00

306

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8966.D

Vial: 10

Acq On : 23 Dec 2013 15:22

Operator: jk SOP 50

Sample : ICALSVSTD120

Inst : GC/MS Ins

Misc : ST130926-12

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 15:49 2013

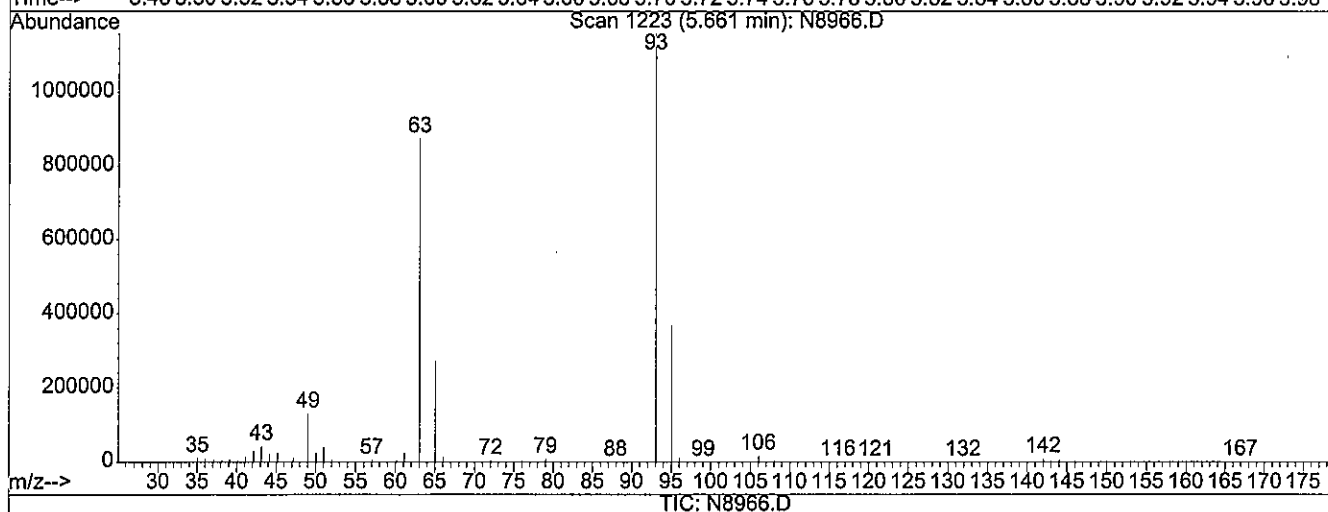
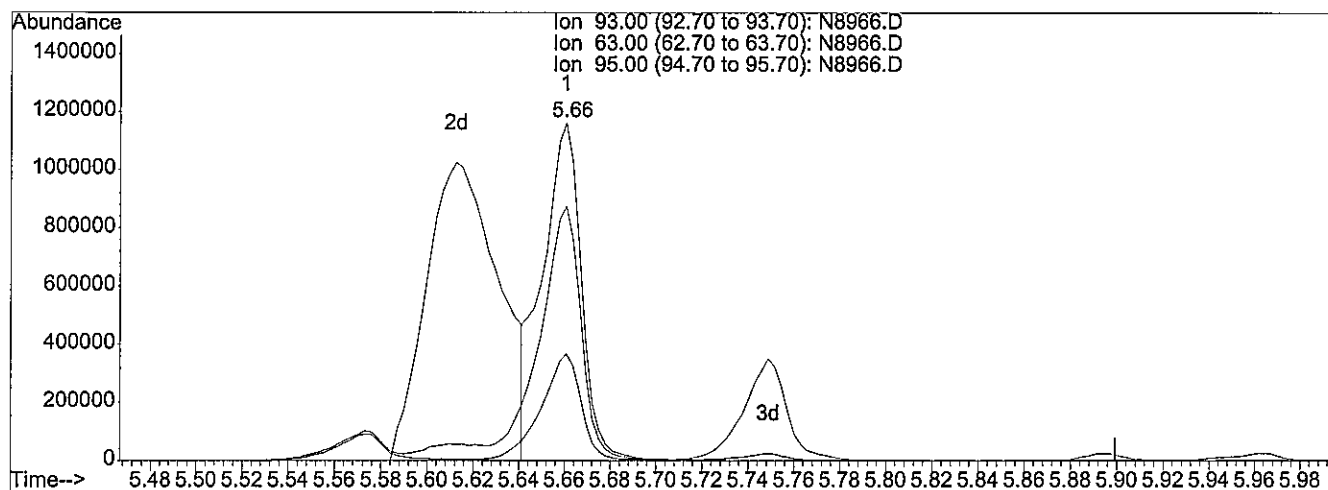
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 15:47:55 2013

Response via : Multiple Level Calibration



(11) Bis(2-chloroethyl)ether (T)

5.66min 106.71ng/uL m

response 1394092

Ion	Exp%	Act%
93.00	100	100
63.00	78.10	79.18
95.00	32.10	32.21
0.00	0.00	0.00

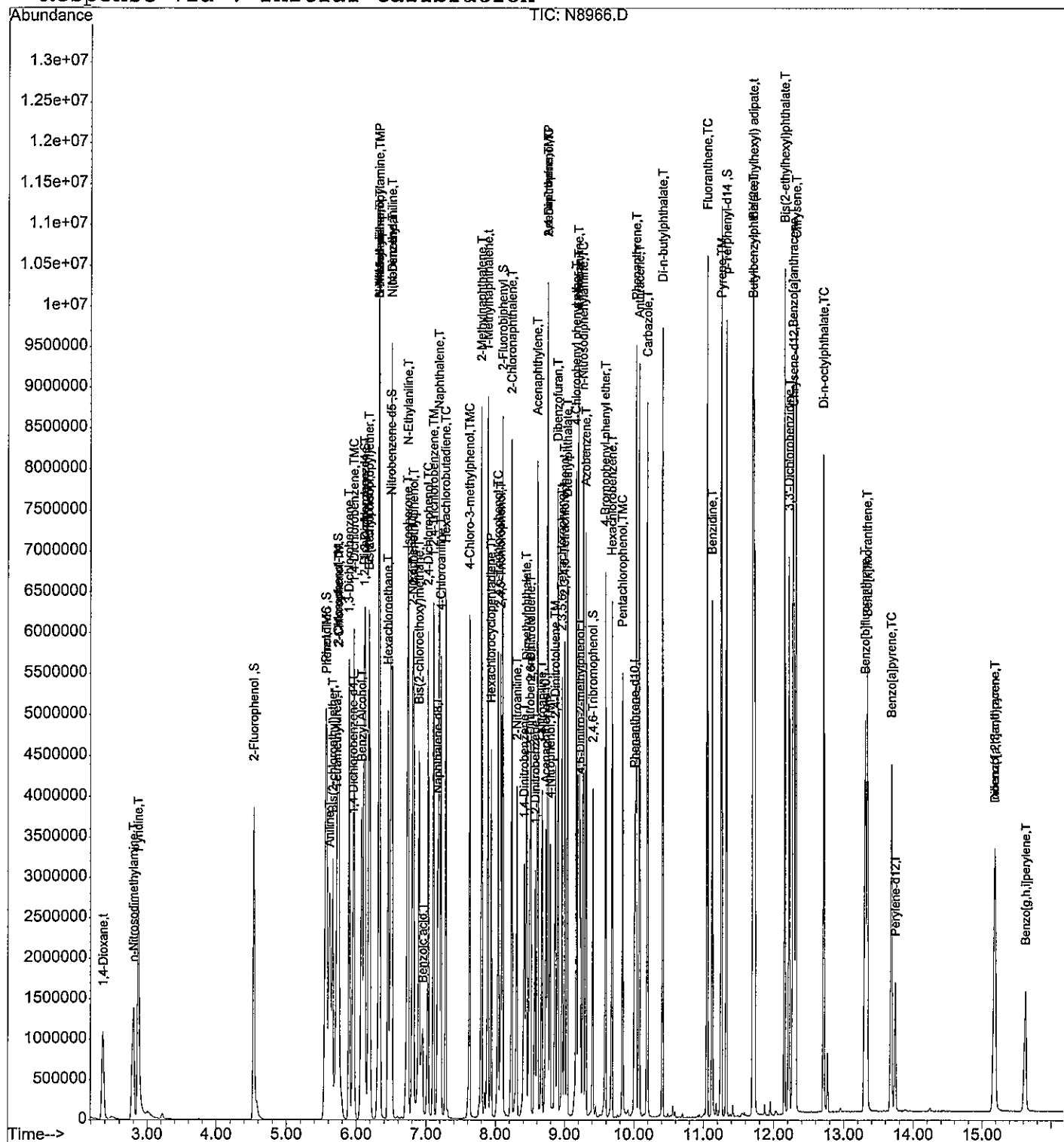
MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials jd date 12-26-13

Quant Results File: 122313S1.RES

```
Method       : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
Title        : GC-MS Semivolatiles      SOP no. 506
Last Update  : Mon Dec 23 15:47:55 2013
Response via : Initial Calibration
```



Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 506 Rev

Sample : ICSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:34 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	442333	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1583497	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	815364	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1581368	40.00	ng/uL	0.00
80) Chrysene-d12	12.28	240	1497145	40.00	ng/uL	0.00
91) Perylene-d12	13.74	264	1110816	40.00	ng/uL	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ng/uL	
Spiked Amount	75.000	Range	46 - 105	Recovery	=	0.00%#
6) 2-Chlorophenol-d4	0.00	132	0d	0.00	ng/uL	
Spiked Amount	75.000	Range	33 - 110	Recovery	=	0.00%#
8) Phenol-d5	0.00	99	0d	0.00	ng/uL	
Spiked Amount	75.000	Range	50 - 109	Recovery	=	0.00%#
15) 1,2-Dichlorobenzene-d4	0.00	152	0d	0.00	ng/uL	
Spiked Amount	50.000	Range	16 - 110	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.00	82	0d	0.00	ng/uL	
Spiked Amount	50.000	Range	53 - 111	Recovery	=	0.00%#
46) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng/uL	
Spiked Amount	50.000	Range	55 - 108	Recovery	=	0.00%#
68) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng/uL	
Spiked Amount	75.000	Range	42 - 117	Recovery	=	0.00%#
83) p-Terphenyl-d14	0.00	244	0	0.00	ng/uL	
Spiked Amount	50.000	Range	34 - 139	Recovery	=	0.00%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.38	88	364063m	48.58	ng/uL	
3) n-Nitrosodimethylamine	2.80	74	530140m	49.01	ng/uL	
4) Pyridine	2.87	79	871288m	49.74	ng/uL	
7) Aniline	5.61	93	1076025	51.72	ng/uL	100
9) Phenol	5.56	94	975230	52.40	ng/uL	94
10) Tetramethylurea	5.67	72	1019339	44.95	ng/uL	99
11) Bis(2-chloroethyl) ether	5.65	93	680864	48.27	ng/uL	97
12) 2-Chlorophenol	5.74	128	733795	50.10	ng/uL	95
13) 1,3-Dichlorobenzene	5.89	146	816029	48.25	ng/uL	99
14) 1,4-Dichlorobenzene	5.96	146	751641	47.88	ng/uL	100
16) 1,2-Dichlorobenzene	6.12	146	745514	51.53	ng/uL	98
17) Benzyl Alcohol	6.06	108	458704	48.43	ng/uL	99
18) 2-Methylphenol	6.16	107	573360	49.02	ng/uL	100
19) Bis(2-chloroisopropyl) ether	6.19	45	990535	47.25	ng/uL	99
20) n-Nitroso-di-n-propylamine	6.31	70	447055	47.13	ng/uL	100
21) 3+4-Methylphenol	6.31	108	684302	48.44	ng/uL	96

(#)=qualifier out of range (m)=manual integration

N8967.D 122313S1.M Thu Dec 26 09:34:52 2013

Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 506 Rev

Sample : ICVSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:34 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	6.31	106	920769	44.86	ng/uL	94
23) Hexachloroethane	6.45	117	310486	47.89	ng/uL	100
26) N,N-Dimethylaniline	6.49	120	1032277	53.32	ng/uL	99
27) Nitrobenzene	6.50	77	849747	49.93	ng/uL	100
28) Isophorone	6.72	82	1228813	50.87	ng/uL	100
29) N-Ethylaniline	6.74	106	1171340	50.58	ng/uL	100
30) 2-Nitrophenol	6.80	139	366740	53.16	ng/uL	98
31) 2,4-Dimethylphenol	6.81	107	631440	49.51	ng/uL	100
32) Bis(2-chloroethoxy)methane	6.89	93	750056	50.60	ng/uL	100
33) Benzoic acid	6.91	105	343431	53.95	ng/uL	94
34) 2,4-Dichlorophenol	7.02	162	583466	51.50	ng/uL	99
35) 1,2,4-Trichlorobenzene	7.10	180	657387	50.34	ng/uL	99
36) Naphthalene	7.18	128	1879378	50.99	ng/uL#	100
37) 4-Chloroaniline	7.21	127	722616m	50.17	ng/uL	
38) Hexachlorobutadiene	7.28	225	402826	52.38	ng/uL	100
39) 4-Chloro-3-methylphenol	7.62	107	584527	49.99	ng/uL	99
40) 2-Methylnaphthalene	7.79	142	1363667	52.54	ng/uL	99
42) 1-Methylnaphthalene	7.88	142	1233919	49.56	ng/uL	99
43) Hexachlorocyclopentadiene	7.93	237	318945	53.31	ng/uL	100
44) 2,4,6-Trichlorophenol	8.03	196	413404	50.06	ng/uL	99
45) 2,4,5-Trichlorophenol	8.07	196	401450	50.88	ng/uL	98
47) 2-Chloronaphthalene	8.23	162	1214679	51.02	ng/uL	99
48) 2-Nitroaniline	8.30	65	345563	53.37	ng/uL	99
49) 1,4-Dinitrobenzene	8.40	168	209918	57.19	ng/uL	97
50) Dimethylphthalate	8.43	163	1230968	49.98	ng/uL	99
51) 1,3-Dinitrobenzene	8.47	168	209798	50.00	ng/uL	98
52) 2,6-Dinitrotoluene	8.49	165	290111	52.56	ng/uL	98
53) 1,2-Dinitrobenzene	8.56	168	179917	63.17	ng/uL	97
54) Acenaphthylene	8.60	152	1883183	52.72	ng/uL	99
55) 3-Nitroaniline	8.66	138	303192	53.17	ng/uL	99
56) Acenaphthene	8.75	154	1103572	52.09	ng/uL	99
57) 2,4-Dinitrophenol	8.74	184	150360	58.36	ng/uL	78
58) 4-Nitrophenol	8.77	109	154077	52.85	ng/uL	97
59) Dibenzofuran	8.89	168	1577305	50.49	ng/uL	99
60) 2,4-Dinitrotoluene	8.85	165	393658	54.37	ng/uL	100
61) 2,3,5,6-Tetrachlorophenol	8.95	232	353858	53.88	ng/uL	99
62) 2,3,4,6-Tetrachlorophenol	8.99	232	321026	48.68	ng/uL	99
63) Diethylphthalate	9.03	149	1225223	52.14	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.16	204	683599	50.50	ng/uL	99
65) 4-Nitroaniline	9.19	138	288367	58.57	ng/uL	94
66) Fluorene	9.19	166	1181658	50.13	ng/uL	100

(#)= qualifier out of range (m) = manual integration

N8967.D 122313S1.M Thu Dec 26 09:34:52 2013

Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 506 Rev

Sample : ICVSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:34 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.30	77	1132854	51.32	ng/uL	100
70) 4,6-Dinitro-2-methylphenol	9.21	198	231067	56.39	ng/uL	96
71) n-Nitrosodiphenylamine	9.26	169	1095765	49.94	ng/uL	99
72) 4-Bromophenyl phenyl ether	9.58	248	424069	49.48	ng/uL	99
73) Hexachlorobenzene	9.68	284	395365	48.66	ng/uL	99
74) Pentachlorophenol	9.83	266	296325	56.08	ng/uL	99
75) Phenanthrene	10.02	178	1825565	50.99	ng/uL	100
76) Anthracene	10.07	178	1844834	50.30	ng/uL	100
77) Carbazole	10.19	167	1862904	52.30	ng/uL	100
78) Di-n-butylphthalate	10.41	149	2242606	48.48	ng/uL	100
79) Fluoranthene	11.05	202	2463162	49.76	ng/uL	100
81) Benzidine	11.12	184	1586215	63.24	ng/uL	100
82) Pyrene	11.25	202	2369955	48.71	ng/uL	100
84) Butylbenzylphthalate	11.70	149	1019115	52.23	ng/uL	99
85) Bis(2-ethylhexyl) adipate	11.71	129	730555	50.55	ng/uL	99
86) Bis(2-ethylhexyl)phthalate	12.15	149	1320085	52.56	ng/uL	100
87) 3,3'-Dichlorobenzidine	12.21	252	728011	51.58	ng/uL	100
88) Benzo[a]anthracene	12.27	228	2097518	49.59	ng/uL	100
89) Chrysene	12.30	228	1932764	51.83	ng/uL	100
90) Di-n-octylphthalate	12.71	149	2014159	53.73	ng/uL	99
92) Benzo[b]fluoranthene	13.30	252	1820915	49.91	ng/uL	99
93) Benzo[k]fluoranthene	13.33	252	1673369	50.03	ng/uL	100
94) Benzo[a]pyrene	13.68	252	1552795	49.81	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.18	276	1119485	46.09	ng/uL	99
96) Dibenzo[a,h]anthracene	15.17	278	1002809	47.03	ng/uL	99
97) Benzo[g,h,i]perylene	15.62	276	915418	46.36	ng/uL	100

(#) = qualifier out of range (m) = manual integration

N8967.D 122313S1.M Thu Dec 26 09:34:53 2013

Page 3

160 of 211

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 50

Sample : ICVSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 23 16:21 2013

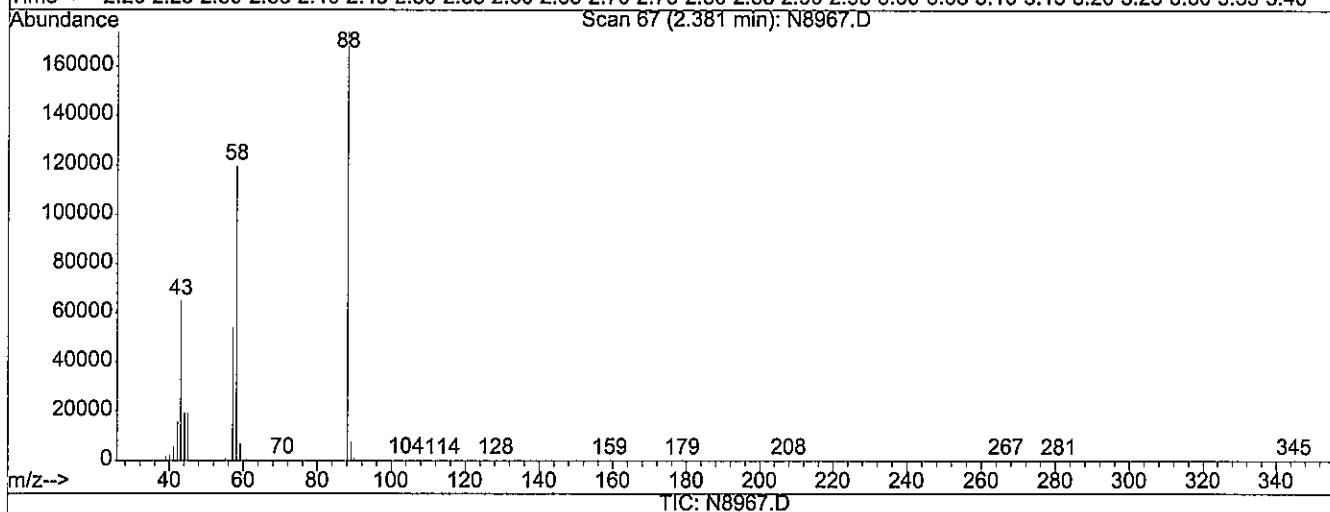
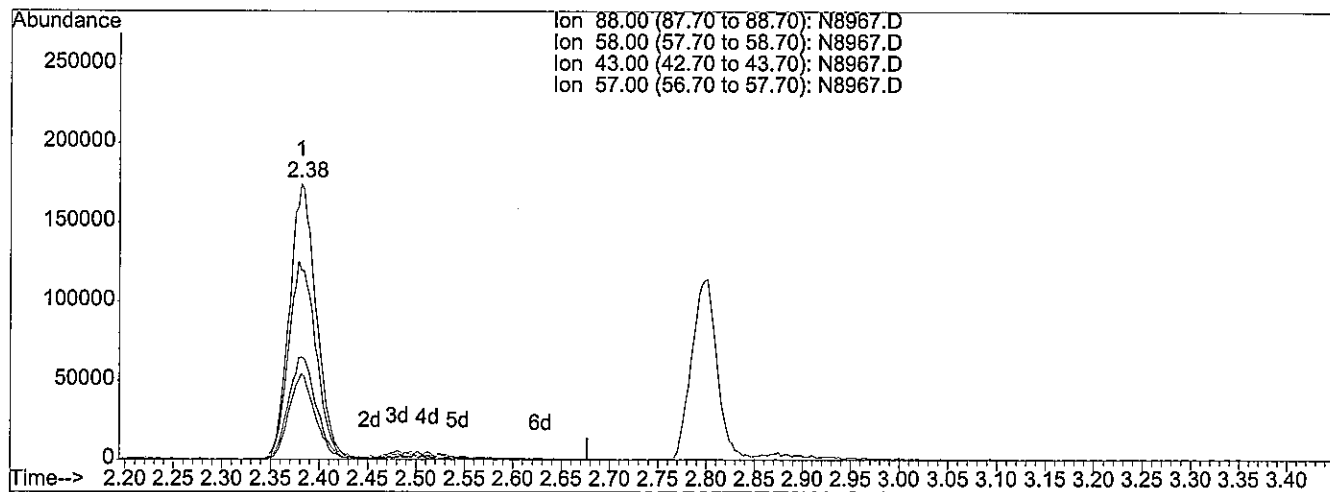
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 44.93ng/uL

response 336704

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	74.05
43.00	35.60	38.72
57.00	27.90	30.36

Sefer

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 50

Sample : ICVSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:33 2013

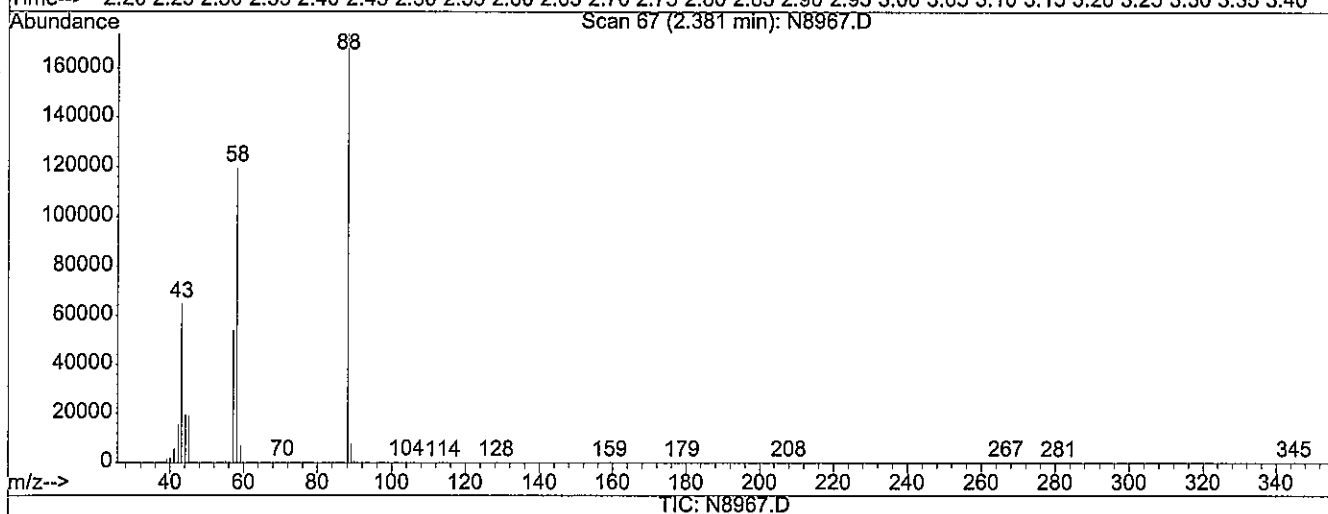
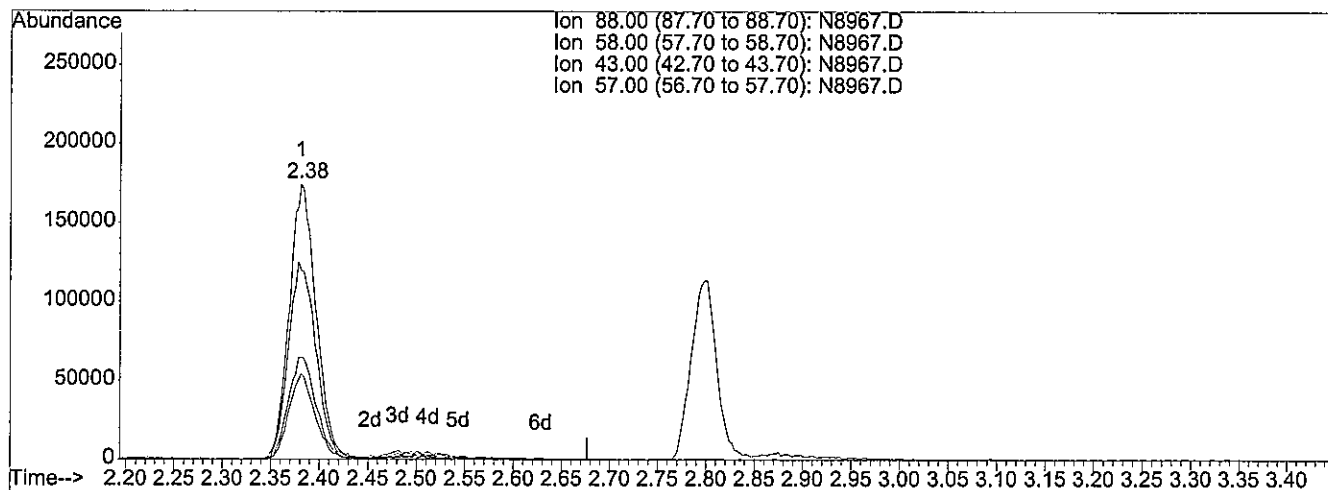
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 48.58ng/uL m

response 364063

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	68.48
43.00	35.60	35.81
57.00	27.90	28.08

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 50

Sample : ICVSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:33 2013

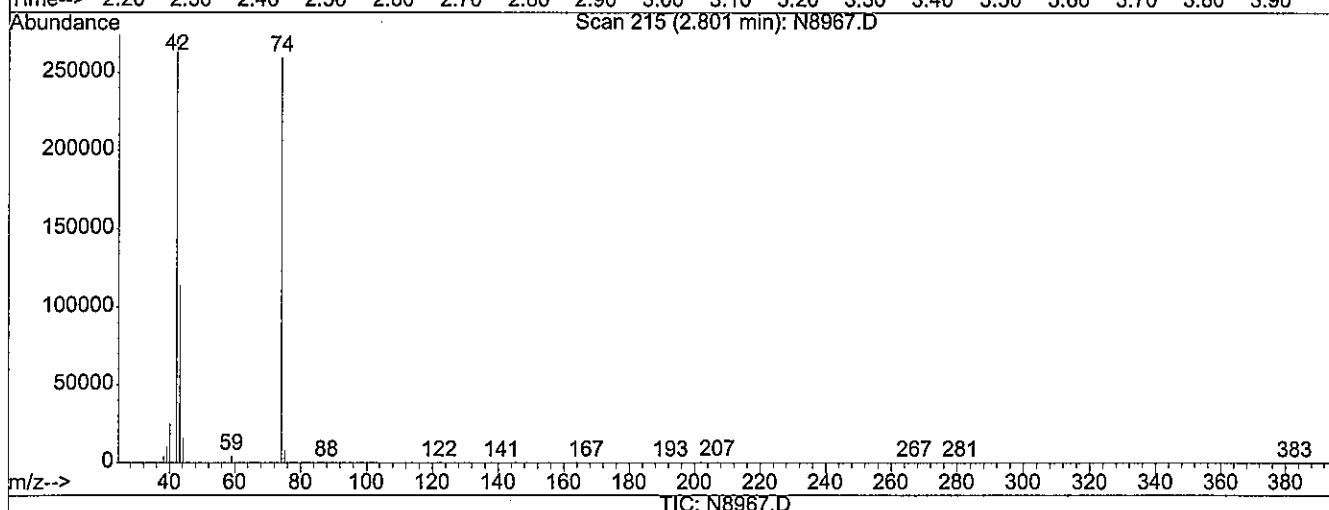
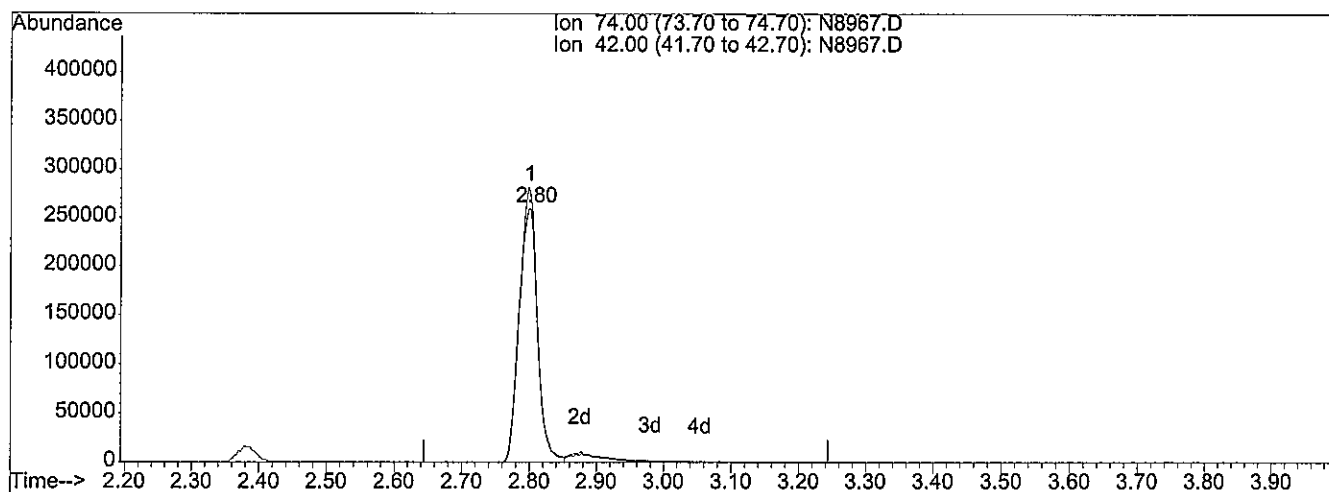
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.80min 45.22ng/uL

response 489184

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	106.72
0.00	0.00	0.00
0.00	0.00	0.00

3.5m

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 50

Sample : ICVSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:33 2013

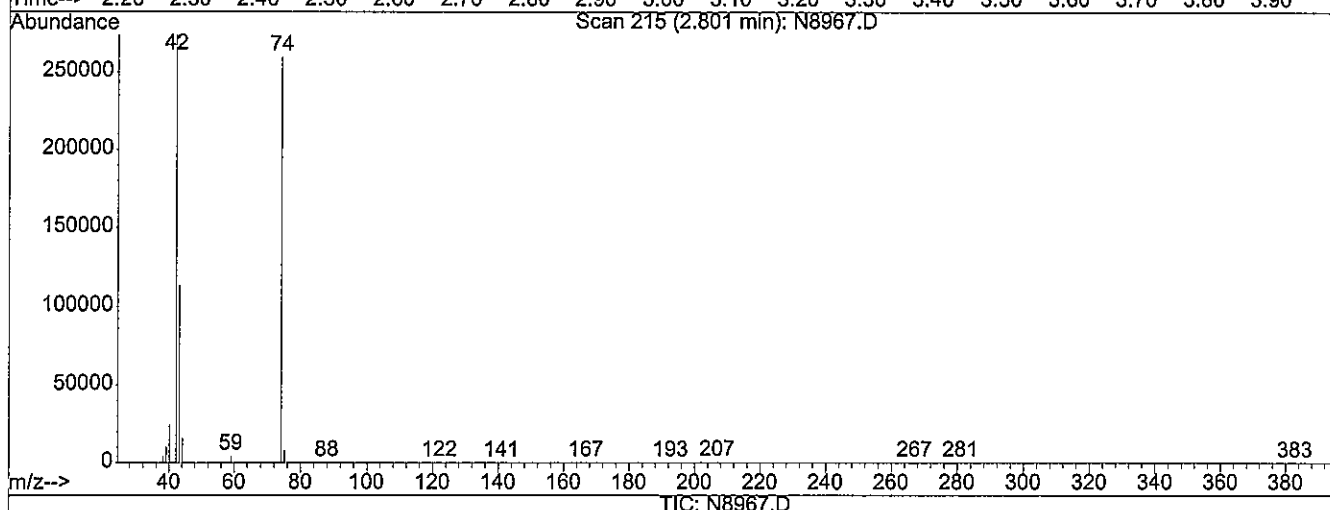
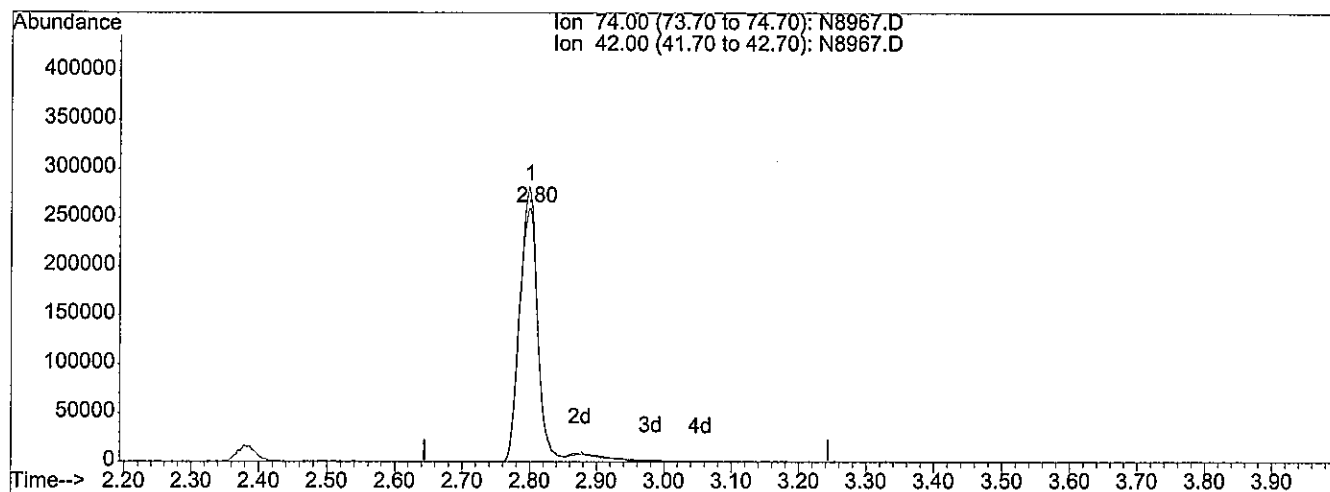
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.80min 49.01ng/uL m

response 530140

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	98.48
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 50

Sample : ICVSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:33 2013

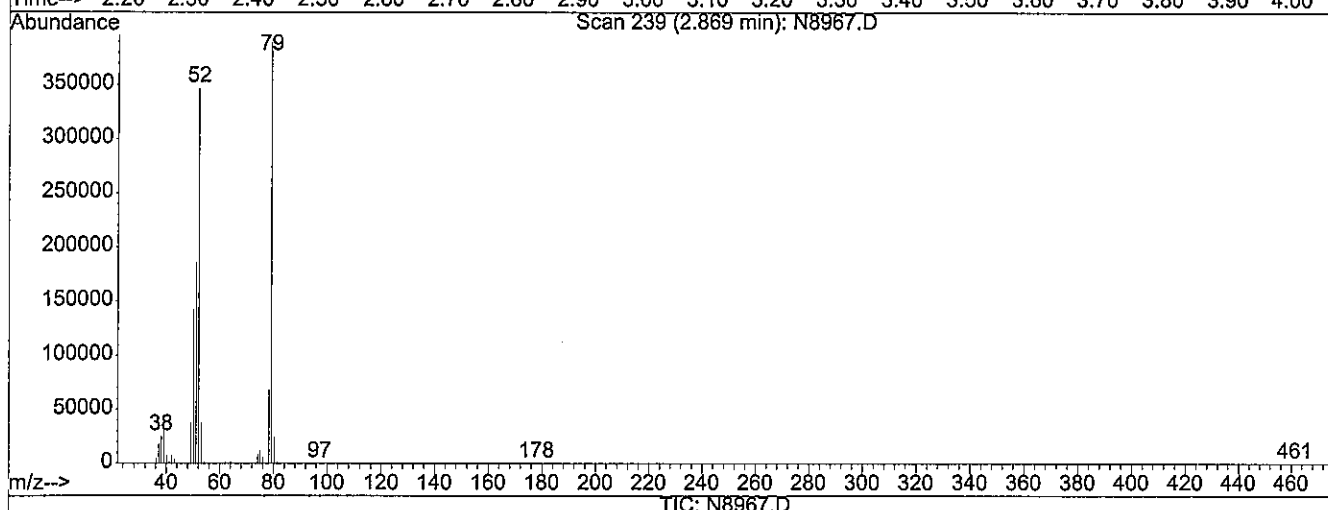
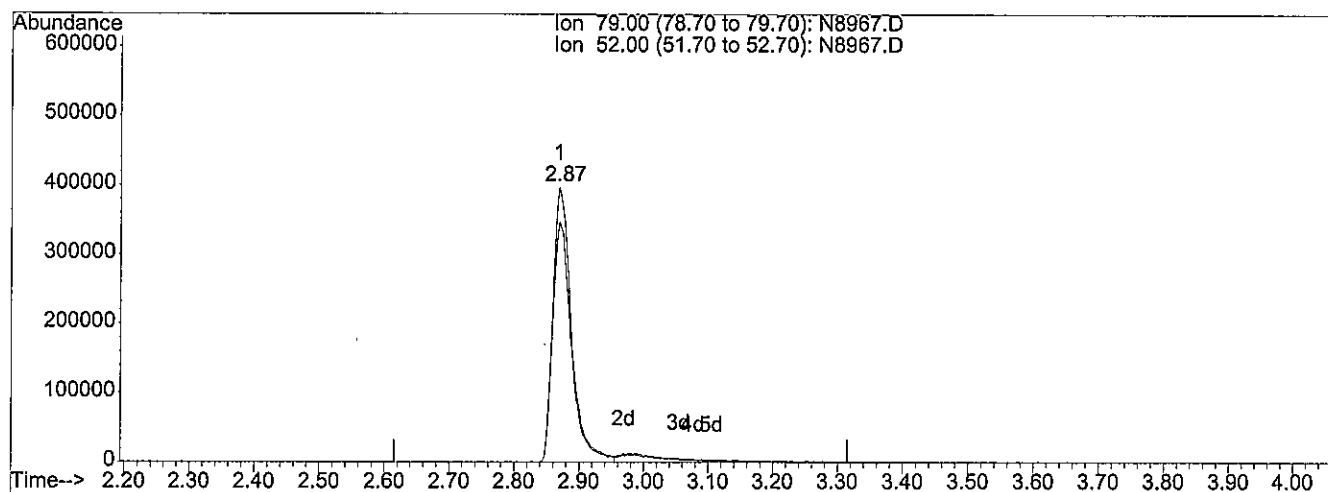
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 45.28ng/uL

response 793110

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	88.24
0.00	0.00	0.00
0.00	0.00	0.00

Safe

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 50

Sample : ICSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:33 2013

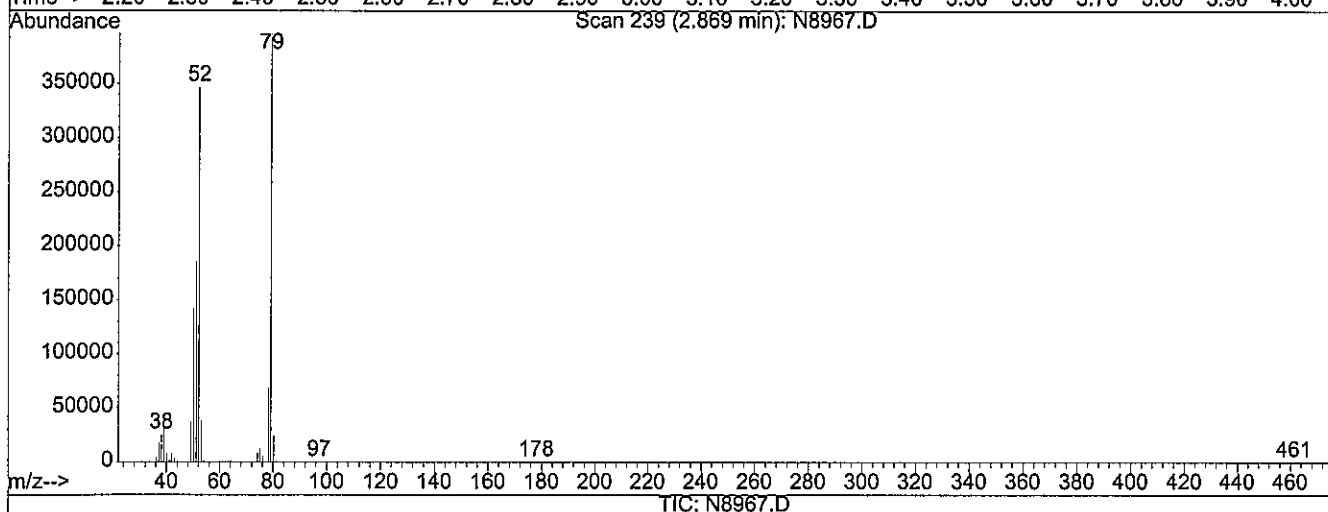
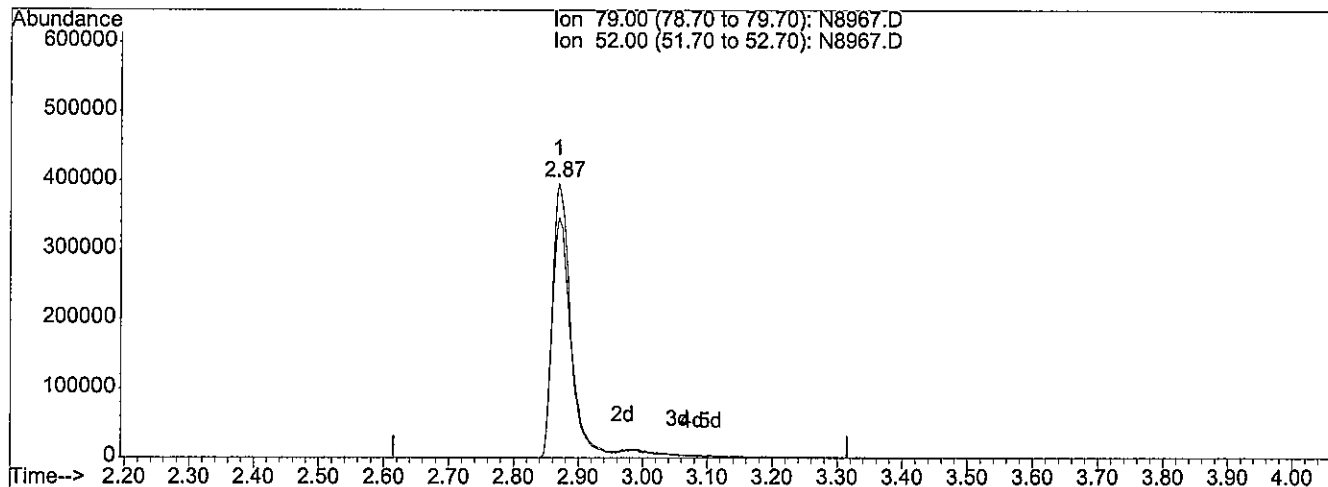
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 49.74ng/uL m

response 871288

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	80.32
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials ju date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8967.D

Vial: 11

Acq On : 23 Dec 2013 15:46

Operator: jk SOP 50

Sample : ICVSVSTD050

Inst : GC/MS Ins

Misc : ST131223-10

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:33 2013

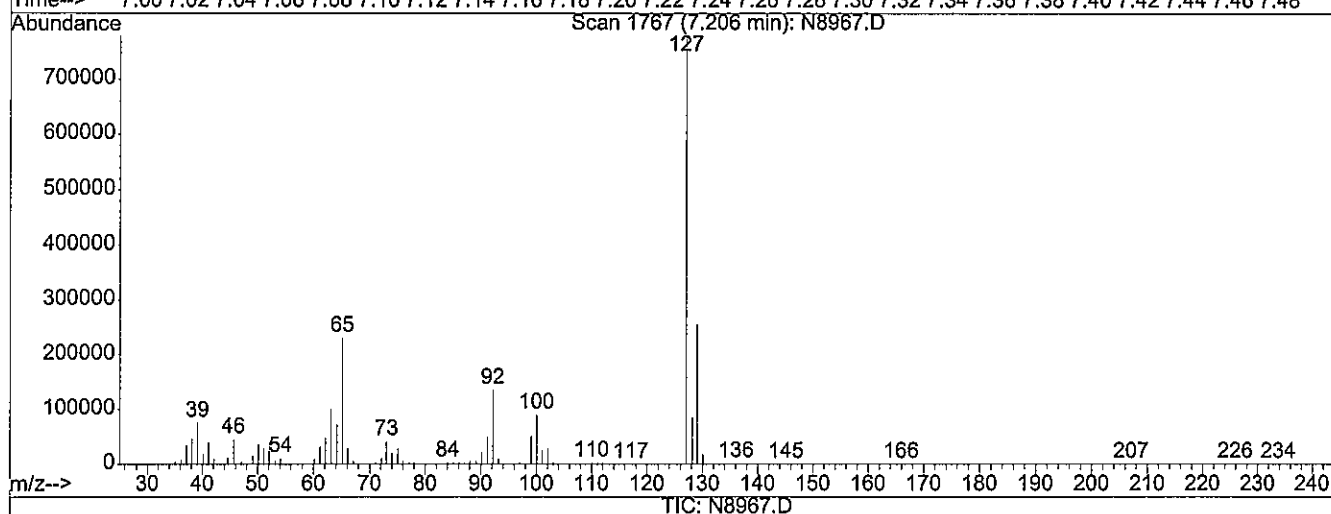
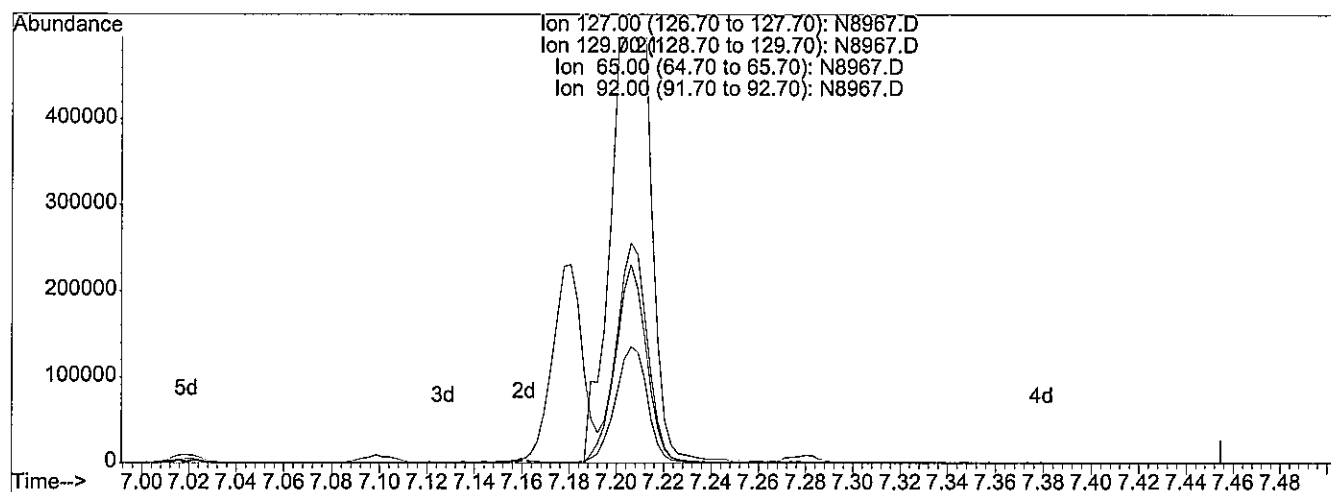
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 52.55ng/uL

response 756826

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	30.63
65.00	29.50	28.12
92.00	18.50	17.01

2.6

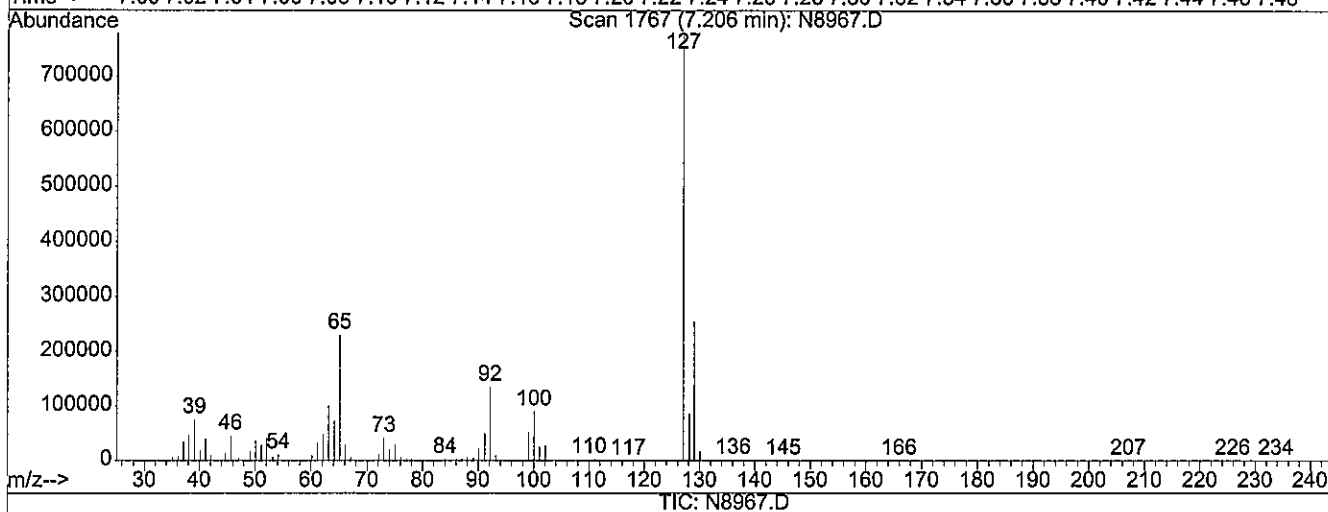
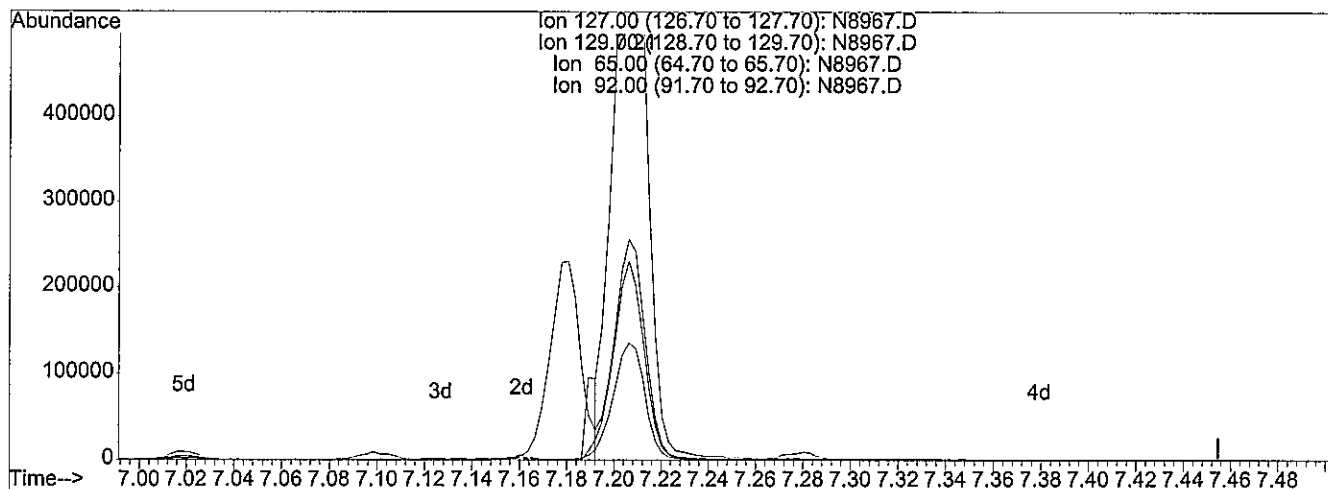
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8967.D
 Acq On : 23 Dec 2013 15:46
 Sample : ICVSVSTD050
 Misc : ST131223-10
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 9:33 2013

Vial: 11
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 50.17ng/uL m

response 722616

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	32.08
65.00	29.50	29.45
92.00	18.50	17.82

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials Ju date 12-26-13

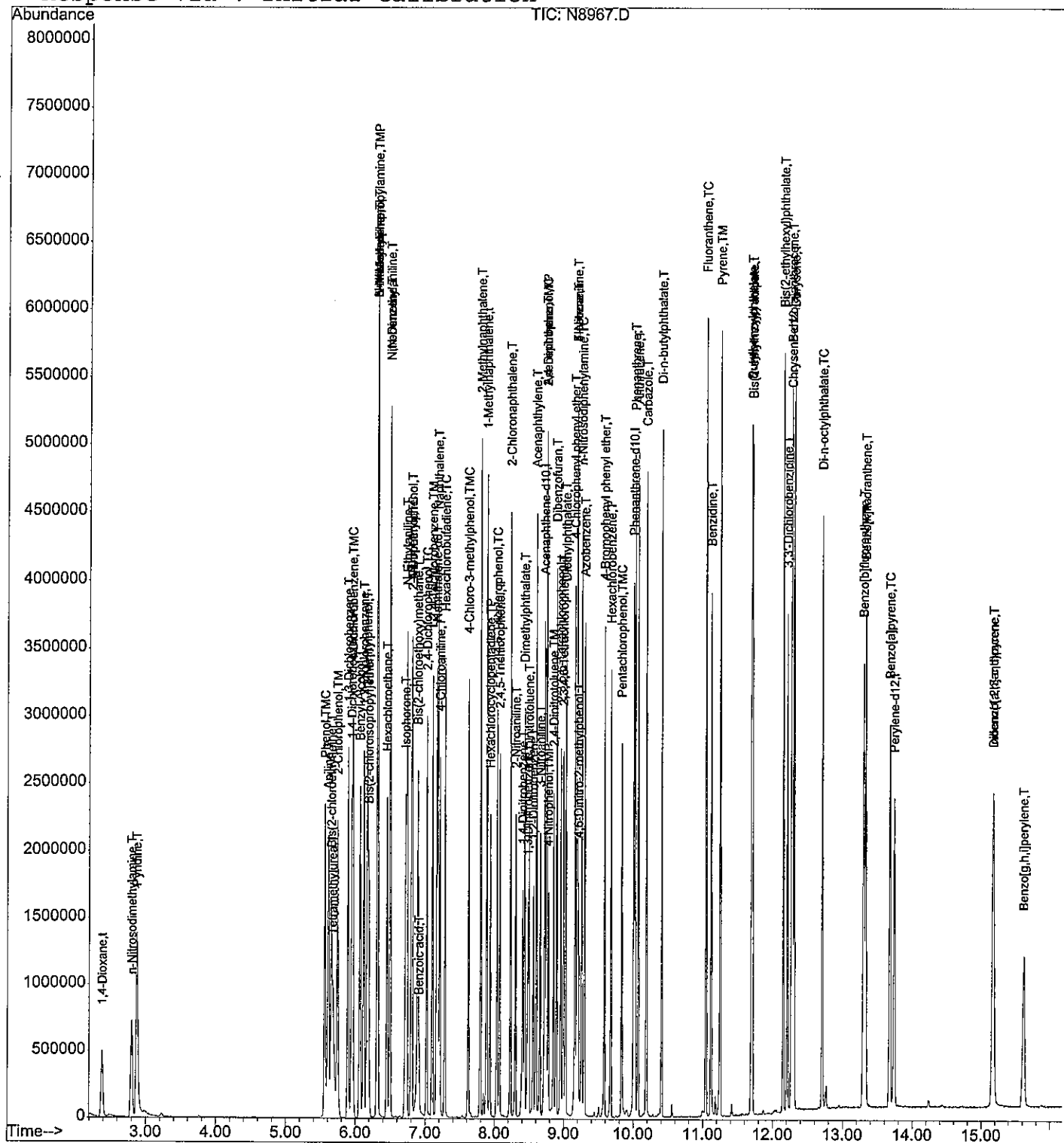
Quantitation Report

Data File : D:\HPCHEM\1\DATA\122313\N8967.D
Acq On : 23 Dec 2013 15:46
Sample : ICVSVSTD050
Misc : ST131223-10
MS Integration Params: RTEINT.P
Quant Time: Dec 26 9:34 2013

Vial: 11
Operator: jk SOP 506
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 122313S1.RES

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
Title : GC-MS Semivolatiles SOP no. 506
Last Update : Mon Dec 23 16:21:25 2013
Response via : Initial Calibration





Sample Raw Data

Data File : D:\HPCHEM\1\DATA\122313\N8974.D

Vial: 18

Acq On : 23 Dec 2013 18:36

Operator: jk SOP 506 Rev

Sample : EX131216-8MB

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:53 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	492938/	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1843782/	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.71	164	958963/	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1625628/	40.00	ng/uL	0.00
80) Chrysene-d12	12.28	240	1756807/	40.00	ng/uL	0.00
91) Perylene-d12	13.74	264	1368694/	40.00	ng/uL	0.01

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	914328	52.41	ng/uL	0.00
Spiked Amount	75.000	Range	46 - 105	Recovery	=	69.88% /
6) 2-Chlorophenol-d4	5.72	132	948598	59.48	ng/uL	0.00
Spiked Amount	75.000	Range	33 - 110	Recovery	=	79.31%
8) Phenol-d5	5.54	99	1194766	56.36	ng/uL	0.00
Spiked Amount	75.000	Range	50 - 109	Recovery	=	75.15% /
15) 1,2-Dichlorobenzene-d4	6.10	152	404096	33.55	ng/uL	0.00
Spiked Amount	50.000	Range	16 - 110	Recovery	=	67.10%
25) Nitrobenzene-d5	6.47	82	670497	43.51	ng/uL	0.00
Spiked Amount	50.000	Range	53 - 111	Recovery	=	87.02%
46) 2-Fluorobiphenyl	8.10	172	1409317	43.99	ng/uL	0.00
Spiked Amount	50.000	Range	55 - 108	Recovery	=	87.98% /
68) 2,4,6-Tribromophenol	9.39	330	244272	62.83	ng/uL	0.00
Spiked Amount	75.000	Range	42 - 117	Recovery	=	83.77% /
83) p-Terphenyl-d14	11.32	244	1752061	45.51	ng/uL	0.00
Spiked Amount	50.000	Range	34 - 139	Recovery	=	91.02% /

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

N8974.D 122313S1.M Thu Dec 26 12:17:00 2013

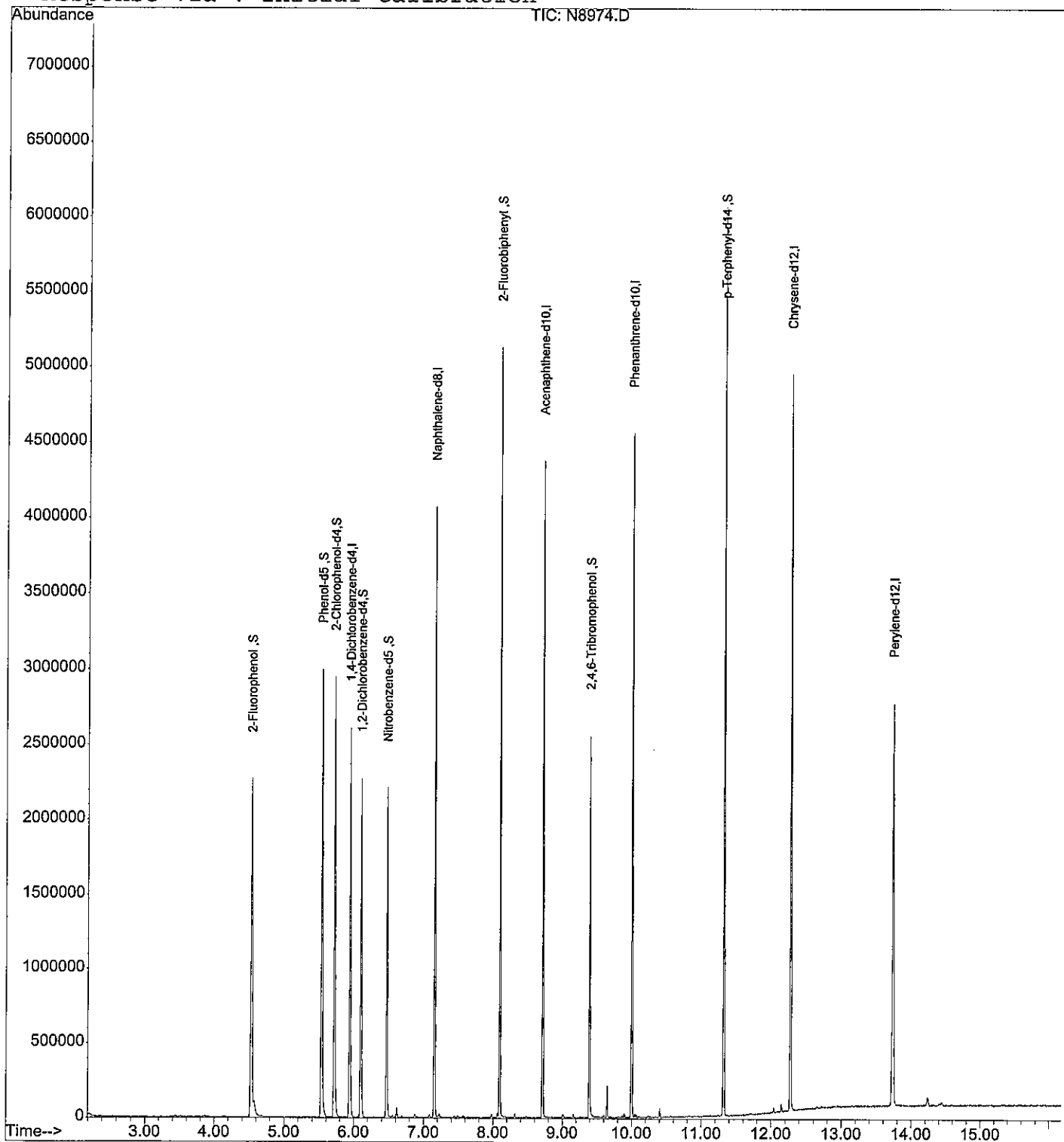
Quantitation Report

Data File : D:\HPCHEM\1\DATA\122313\N8974.D
 Acq On : 23 Dec 2013 18:36
 Sample : EX131216-8MB
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 9:53 2013

Vial: 18
 Operator: jk SOP 506
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: 122313S1.RES

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Initial Calibration



Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\122313\N8974.D Vial: 18
Acq On : 23 Dec 2013 18:36 Operator: jk SOP 506 Rev
Sample : EX131216-8MB Inst : GC/MS Ins
Misc : WATER EX131216-8 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
Title : GC-MS Semivolatiles SOP no. 506
Library : D:\DATABASE\NIST98.L

No Library Search Compounds Detected

N8974.D 122313S1.M Thu Dec 26 12:52:49 2013

91
12-26-13

Data File : D:\HPCHEM\1\DATA\122313\N8979.D

Vial: 23

Acq On : 23 Dec 2013 20:37

Operator: jk SOP 506 Rev

Sample : 1312158-1

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 9:54 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	546708✓	40.00	ng/uL	0.00
24) Naphthalene-d8	7.15	136	2038371✓	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	1063639✓	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1796951✓	40.00	ng/uL	0.00
80) Chrysene-d12	12.28	240	1956394✓	40.00	ng/uL	0.00
91) Perylene-d12	13.74	264	1493112✓	40.00	ng/uL	0.01

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	1049794	54.25	ng/uL	0.00
Spiked Amount 75.000	Range 46 - 105		Recovery =	72.33%	✓	
6) 2-Chlorophenol-d4	5.72	132	1057693	59.80	ng/uL	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery =	79.73%		
8) Phenol-d5	5.54	99	1319740	56.14	ng/uL	0.00
Spiked Amount 75.000	Range 50 - 109		Recovery =	74.85%	✓	
15) 1,2-Dichlorobenzene-d4	6.10	152	457157	34.22	ng/uL	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery =	68.44%		
25) Nitrobenzene-d5	6.47	82	748673	43.94	ng/uL	0.00
Spiked Amount 50.000	Range 53 - 111		Recovery =	87.88%	✓	
46) 2-Fluorobiphenyl	8.10	172	1490890	41.95	ng/uL	0.00
Spiked Amount 50.000	Range 55 - 108		Recovery =	83.90%	✓	
68) 2,4,6-Tribromophenol	9.39	330	254072	58.92	ng/uL	0.00
Spiked Amount 75.000	Range 42 - 117		Recovery =	78.56%	✓	
83) p-Terphenyl-d14	11.32	244	1781817	41.56	ng/uL	0.00
Spiked Amount 50.000	Range 34 - 139		Recovery =	83.12%	✓	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

N8979.D 122313S1.M Thu Dec 26 12:23:54 2013

Page 1

24
12/26/13 174 of 211

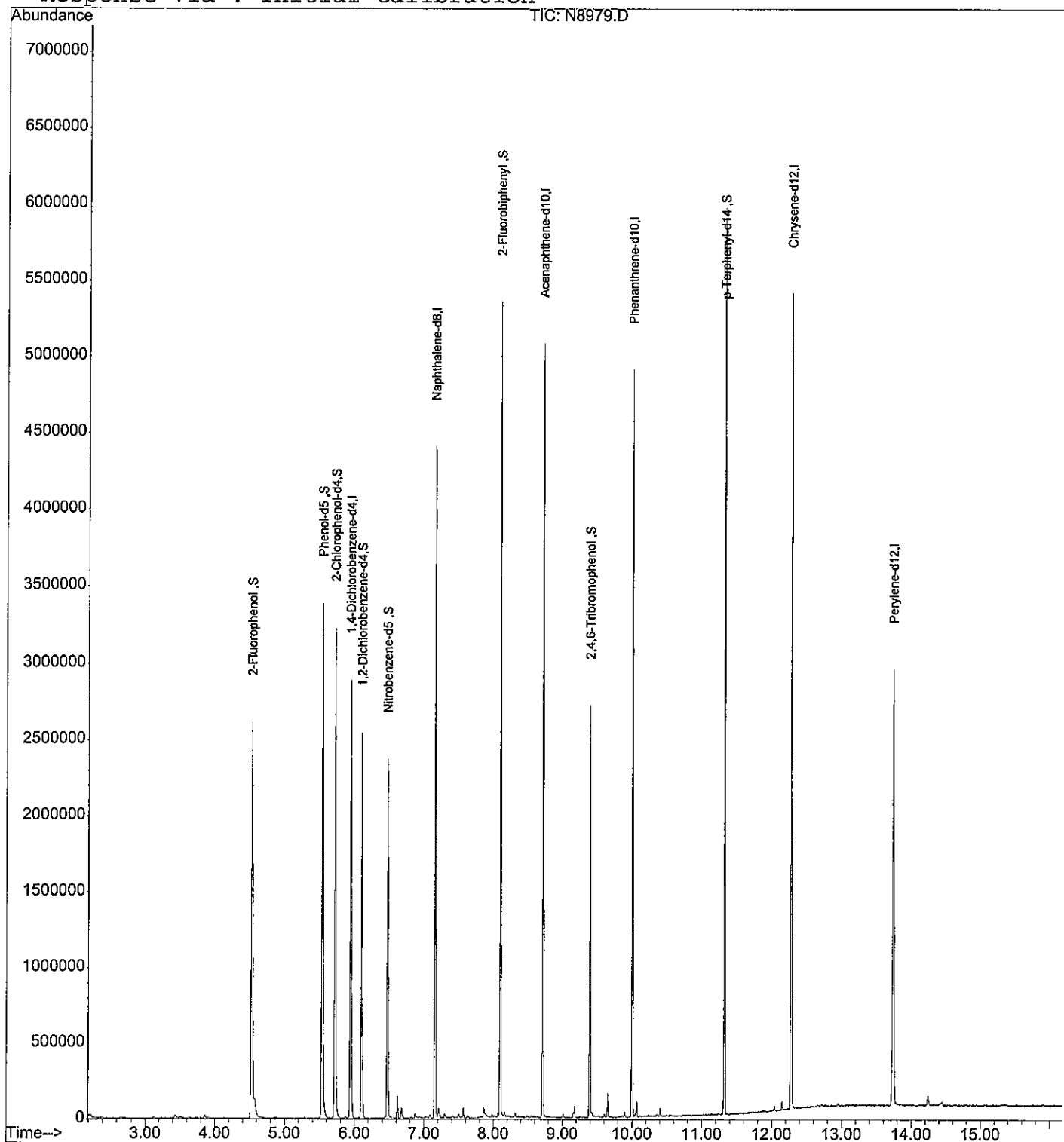
Quantitation Report

Data File : D:\HPCHEM\1\DATA\122313\N8979.D
 Acq On : 23 Dec 2013 20:37
 Sample : 1312158-1
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 9:54 2013

Vial: 23
 Operator: jk SOP 506
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: 122313S1.RES

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Initial Calibration



Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\122313\N8979.D Vial: 23
Acq On : 23 Dec 2013 20:37 Operator: jk SOP 506 Rev
Sample : 1312158-1 Inst : GC/MS Ins
Misc : WATER EX131216-8 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
Title : GC-MS Semivolatiles SOP no. 506
Library : D:\DATABASE\NIST98.L

No Library Search Compounds Detected

N8979.D 122313S1.M Thu Dec 26 13:05:19 2013



Raw Data Quality Control Samples

Data File : D:\HPCHEM\1\DATA\122313\N8975.D

Vial: 19

Acq On : 23 Dec 2013 19:00

Operator: jk SOP 506 Rev

Sample : EX131216-8LCS

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:18 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	443869/	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1623924/	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	838094/	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1603159/	40.00	ng/uL	0.00
80) Chrysene-d12	12.29	240	1523915/	40.00	ng/uL	0.01
91) Perylene-d12	13.74	264	1055444/	40.00	ng/uL	0.01

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	963179	61.31	ng/uL	0.00
Spiked Amount 75.000	Range 46	- 105	Recovery	=	81.75%	/
6) 2-Chlorophenol-d4	5.72	132	908422	63.26	ng/uL	0.00
Spiked Amount 75.000	Range 33	- 110	Recovery	=	84.35%	
8) Phenol-d5	5.54	99	1234969	64.70	ng/uL	0.00
Spiked Amount 75.000	Range 50	- 109	Recovery	=	86.27%	/
15) 1,2-Dichlorobenzene-d4	6.10	152	385451	35.54	ng/uL	0.00
Spiked Amount 50.000	Range 16	- 110	Recovery	=	71.08%	
25) Nitrobenzene-d5	6.48	82	608640	44.84	ng/uL	0.00
Spiked Amount 50.000	Range 53	- 111	Recovery	=	89.68%	
46) 2-Fluorobiphenyl	8.10	172	1218436	43.51	ng/uL	0.00
Spiked Amount 50.000	Range 55	- 108	Recovery	=	87.02%	/
68) 2,4,6-Tribromophenol	9.40	330	226583	66.69	ng/uL	0.00
Spiked Amount 75.000	Range 42	- 117	Recovery	=	88.92%	/
83) p-Terphenyl-d14	11.32	244	1493747	44.73	ng/uL	0.00
Spiked Amount 50.000	Range 34	- 139	Recovery	=	89.46%	/

Target Compounds

					Qvalue
2) 1,4-Dioxane	2.38	88	357561m	47.55	ng/uL
3) n-Nitrosodimethylamine	2.80	74	552317m	50.88	ng/uL
4) Pyridine	2.87	79	581816m	33.10	ng/uL
7) Aniline	5.61	93	1030060	49.34	ng/uL 97
9) Phenol	5.56	94	903763	48.39	ng/uL 99
10) Tetramethylurea	0.00	72	0	N.D.	d
11) Bis(2-chloroethyl) ether	5.65	93	676600	47.81	ng/uL 100
12) 2-Chlorophenol	5.74	128	711147	48.39	ng/uL 99
13) 1,3-Dichlorobenzene	5.89	146	749943	44.19	ng/uL 100
14) 1,4-Dichlorobenzene	5.96	146	695793	44.17	ng/uL 100
16) 1,2-Dichlorobenzene	6.12	146	656751	45.24	ng/uL 99
17) Benzyl Alcohol	6.06	108	461211	48.53	ng/uL 99
18) 2-Methylphenol	6.16	107	568794	48.46	ng/uL# 88
19) Bis(2-chloroisopropyl) ether	6.19	45	1058171	50.31	ng/uL# 72
20) n-Nitroso-di-n-propylamine	6.32	70	490116	51.49	ng/uL 100
21) 3+4-Methylphenol	6.31	108	692858	48.87	ng/uL# 46

(#)=qualifier out of range (m)=manual integration

N8975.D 122313S1.M Thu Dec 26 12:18:59 2013

38
12-26-13

Page 1

178 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8975.D

Vial: 19

Acq On : 23 Dec 2013 19:00

Operator: jk SOP 506 Rev

Sample : EX131216-8LCS

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:18 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
22) N-Methylaniline	0.00	106	0	N.D. d	
23) Hexachloroethane	6.45	117	297497	45.73 ng/uL	99
26) N,N-Dimethylaniline	0.00	120	0	N.D.	
27) Nitrobenzene	6.50	77	699078	40.05 ng/uL	85
28) Isophorone	6.71	82	1316866	53.16 ng/uL	100
29) N-Ethylaniline	0.00	106	0	N.D. d	
30) 2-Nitrophenol	6.80	139	391704	55.37 ng/uL	98
31) 2,4-Dimethylphenol	6.81	107	644811	49.30 ng/uL	98
32) Bis(2-chloroethoxy)methane	6.89	93	792689	52.14 ng/uL	100
33) Benzoic acid	6.92	105	456428m	69.91 ng/uL	
34) 2,4-Dichlorophenol	7.02	162	609508	52.46 ng/uL	99
35) 1,2,4-Trichlorobenzene	7.10	180	628281	46.91 ng/uL	99
36) Naphthalene	7.18	128	1897362	50.20 ng/uL#	100
37) 4-Chloroaniline	7.21	127	779222m	52.76 ng/uL	
38) Hexachlorobutadiene	7.28	225	366232	46.44 ng/uL	100
39) 4-Chloro-3-methylphenol	7.62	107	657354	54.82 ng/uL	100
40) 2-Methylnaphthalene	7.80	142	1412010	53.05 ng/uL	99
42) 1-Methylnaphthalene	7.89	142	1179321	46.09 ng/uL	100
43) Hexachlorocyclopentadiene	7.93	237	129142	21.00 ng/uL	99
44) 2,4,6-Trichlorophenol	8.03	196	440341	51.88 ng/uL	99
45) 2,4,5-Trichlorophenol	8.07	196	445849	54.97 ng/uL	98
47) 2-Chloronaphthalene	8.23	162	1262321	51.58 ng/uL	99
48) 2-Nitroaniline	8.30	65	364738	54.80 ng/uL	98
49) 1,4-Dinitrobenzene	8.40	168	216295	57.33 ng/uL	97
50) Dimethylphthalate	8.43	163	1339375	52.91 ng/uL	100
51) 1,3-Dinitrobenzene	8.48	168	235061	54.51 ng/uL	96
52) 2,6-Dinitrotoluene	8.50	165	311132	54.84 ng/uL	97
53) 1,2-Dinitrobenzene	8.56	168	157973	53.96 ng/uL	99
54) Acenaphthylene	8.60	152	1948684	53.07 ng/uL	99
55) 3-Nitroaniline	8.66	138	323386	55.17 ng/uL	100
56) Acenaphthene	8.75	154	1150301	52.82 ng/uL	99
57) 2,4-Dinitrophenol	8.74	184	144662	55.45 ng/uL	92
58) 4-Nitrophenol	8.77	109	156963	52.38 ng/uL	97
59) Dibenzofuran	8.89	168	1667658	51.93 ng/uL	99
60) 2,4-Dinitrotoluene	8.85	165	438626	58.94 ng/uL	99
61) 2,3,5,6-Tetrachlorophenol	8.95	232	584308	86.55 ng/uL	99
62) 2,3,4,6-Tetrachlorophenol	8.99	232	580700	85.67 ng/uL	99
63) Diethylphthalate	9.03	149	1322953	54.77 ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.16	204	738853	53.10 ng/uL	99
65) 4-Nitroaniline	9.19	138	303305	59.94 ng/uL	96
66) Fluorene	9.19	166	1246411	51.44 ng/uL	100

(#)= qualifier out of range (m) = manual integration

N8975.D 122313S1.M

Thu Dec 26 12:19:00 2013

Page 2

179 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8975.D

Vial: 19

Acq On : 23 Dec 2013 19:00

Operator: jk SOP 506 Rev

Sample : EX131216-8LCS

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:18 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.30	77	1178683	51.95	ng/uL	100
70) 4,6-Dinitro-2-methylphenol	9.21	198	229341	55.21	ng/uL	99
71) n-Nitrosodiphenylamine	9.26	169	1029270	46.27	ng/uL	99
72) 4-Bromophenyl phenyl ether	9.58	248	448336	51.60	ng/uL	99
73) Hexachlorobenzene	9.67	284	422634	51.30	ng/uL	99
74) Pentachlorophenol	9.83	266	288342m	53.83	ng/uL	
75) Phenanthrene	10.02	178	1931568	53.21	ng/uL	99
76) Anthracene	10.07	178	1962004	52.77	ng/uL	100
77) Carbazole	10.19	167	2003950	55.49	ng/uL	100
78) Di-n-butylphthalate	10.41	149	2647674	56.46	ng/uL	100
79) Fluoranthene	11.05	202	2672207	53.25	ng/uL	100
81) Benzidine	11.12	184	1253536	49.11	ng/uL	99
82) Pyrene	11.25	202	2607112	52.65	ng/uL	100
84) Butylbenzylphthalate	11.70	149	1110930	55.94	ng/uL	99
85) Bis(2-ethylhexyl) adipate	11.71	129	793934	53.98	ng/uL	99
86) Bis(2-ethylhexyl)phthalate	12.15	149	1451467	56.77	ng/uL	100
87) 3,3'-Dichlorobenzidine	12.21	252	740051	51.51	ng/uL	100
88) Benzo[a]anthracene	12.27	228	2298656	53.39	ng/uL	100
89) Chrysene	12.31	228	2082285	54.86	ng/uL	100
90) Di-n-octylphthalate	12.71	149	2126364	55.72	ng/uL	100
92) Benzo[b]fluoranthene	13.30	252	1924717	55.53	ng/uL	100
93) Benzo[k]fluoranthene	13.33	252	1757719	55.31	ng/uL	100
94) Benzo[a]pyrene	13.68	252	1480934	50.00	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.18	276	1240334	53.75	ng/uL	99
96) Dibenzo[a,h]anthracene	15.18	278	1111077	54.85	ng/uL	100
97) Benzo[g,h,i]perylene	15.62	276	1011856	53.93	ng/uL	99

(#) = qualifier out of range (m) = manual integration

N8975.D 122313S1.M Thu Dec 26 12:19:00 2013

Page 3

180 of 211

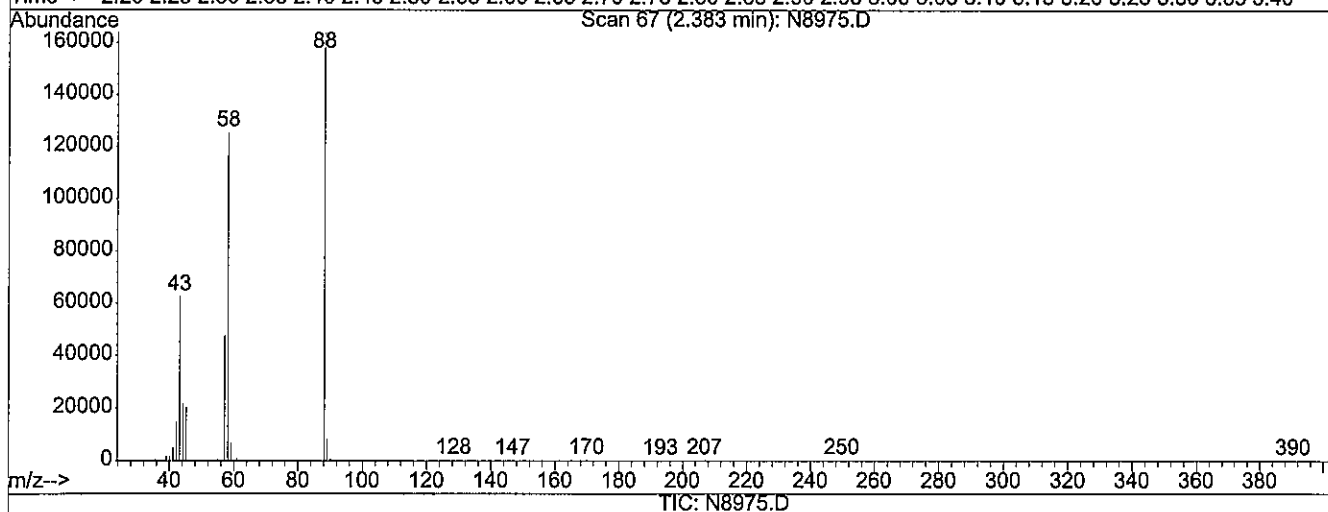
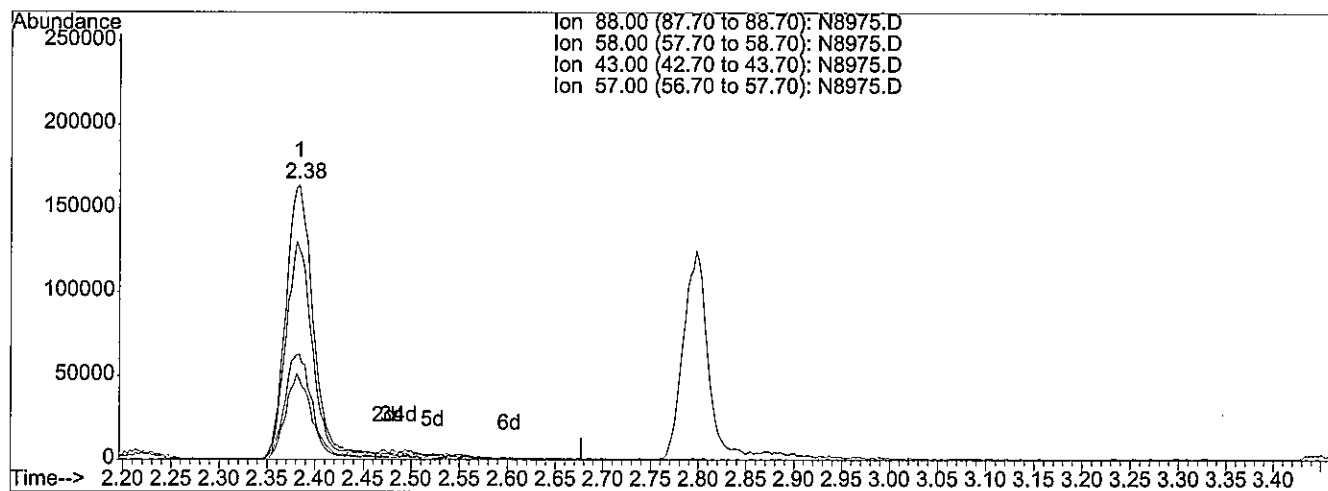
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 9:53 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 44.08ng/uL

response 331442

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	76.84
43.00	35.60	38.25
57.00	27.90	29.87

3.60e

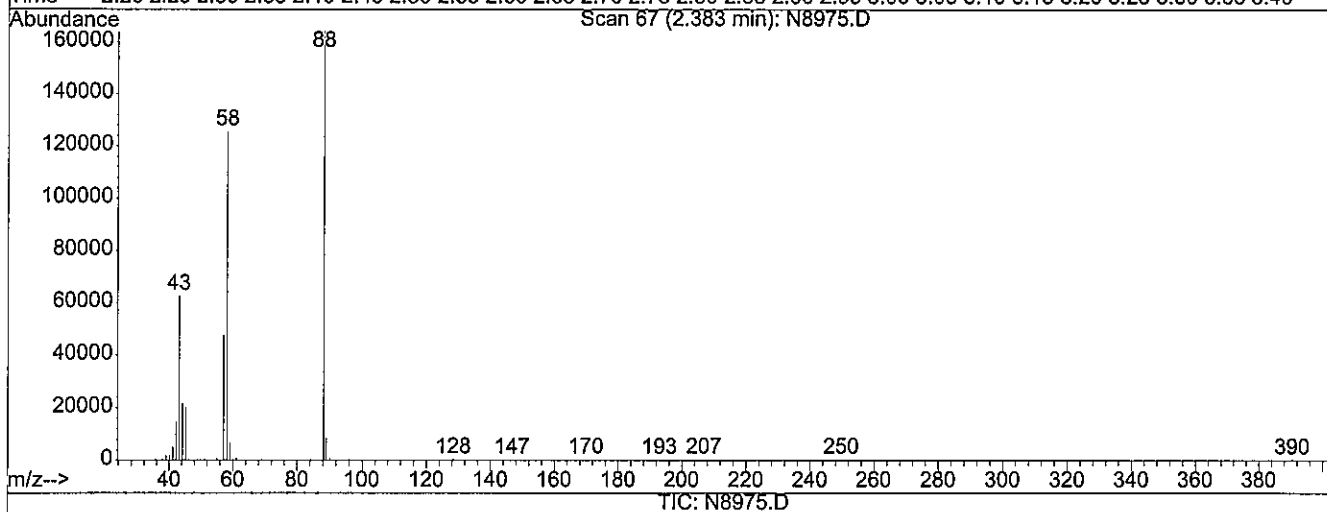
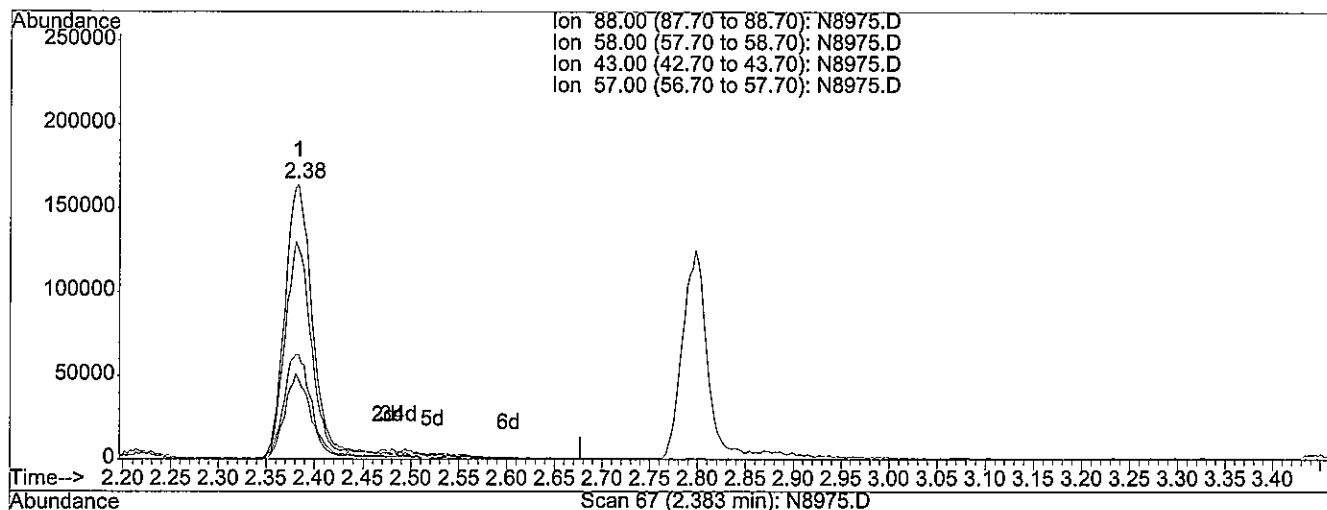
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:17 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 47.55ng/uL m

response 357561

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	71.23
43.00	35.60	35.46
57.00	27.90	27.69

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

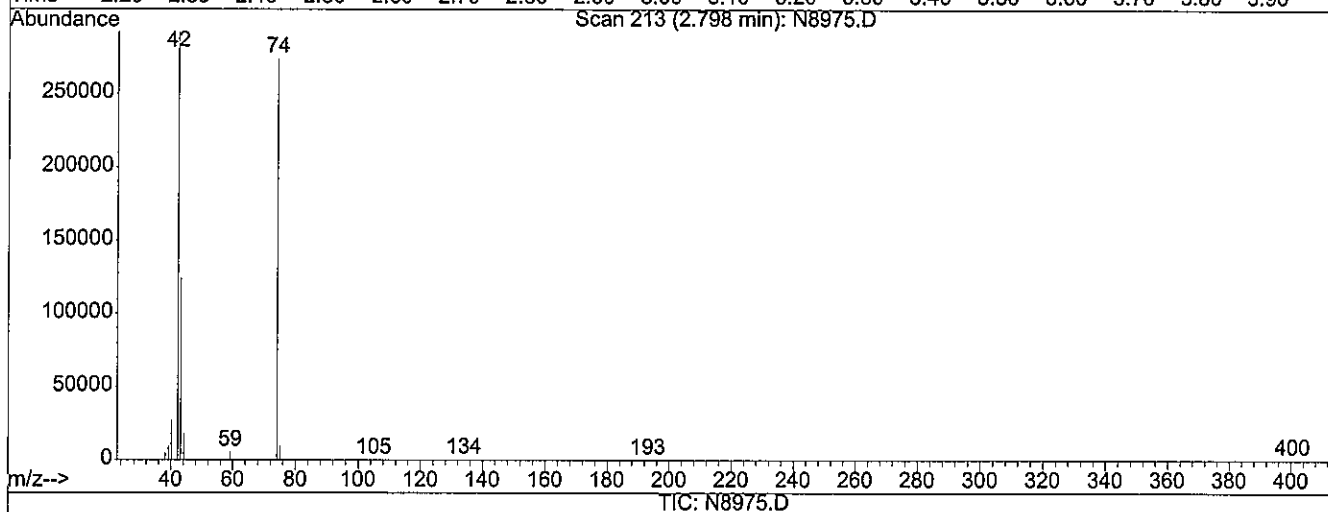
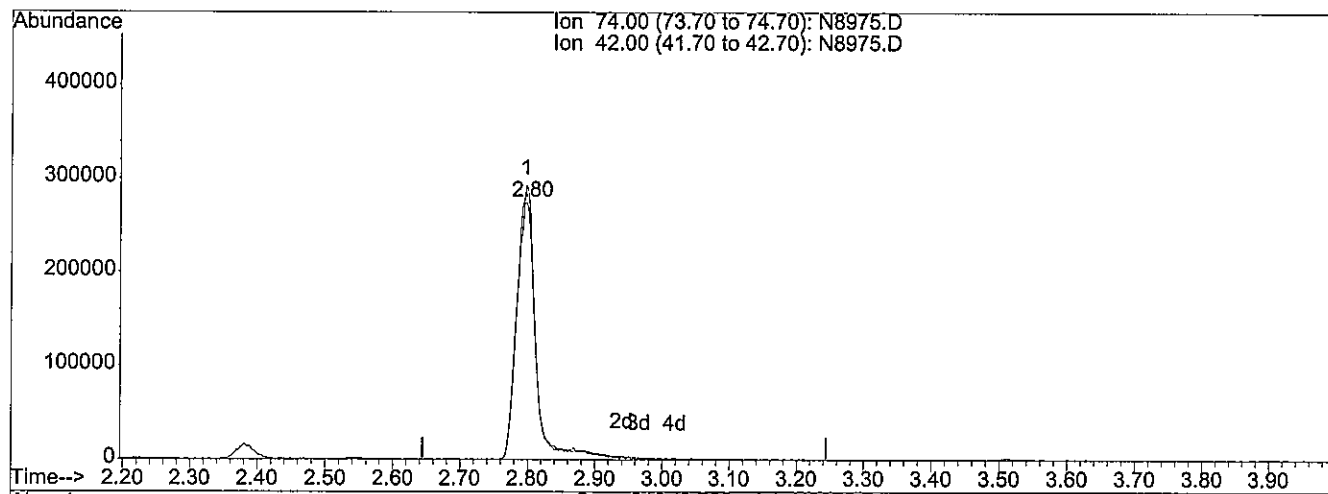
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:17 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.80min 49.80ng/uL

response 540637

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	106.34
0.00	0.00	0.00
0.00	0.00	0.00

Before

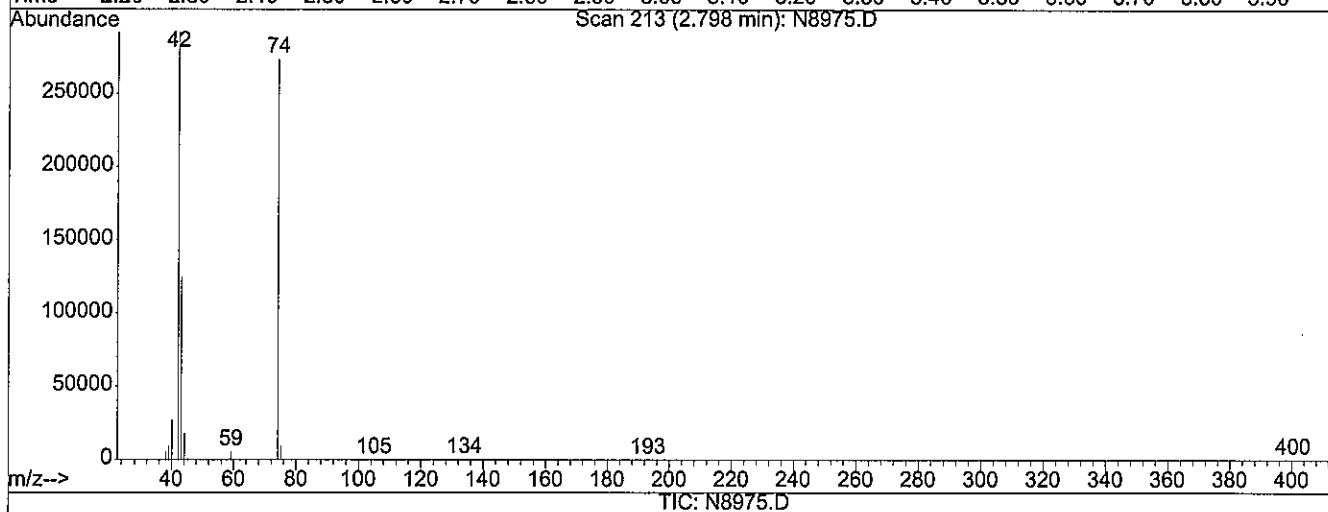
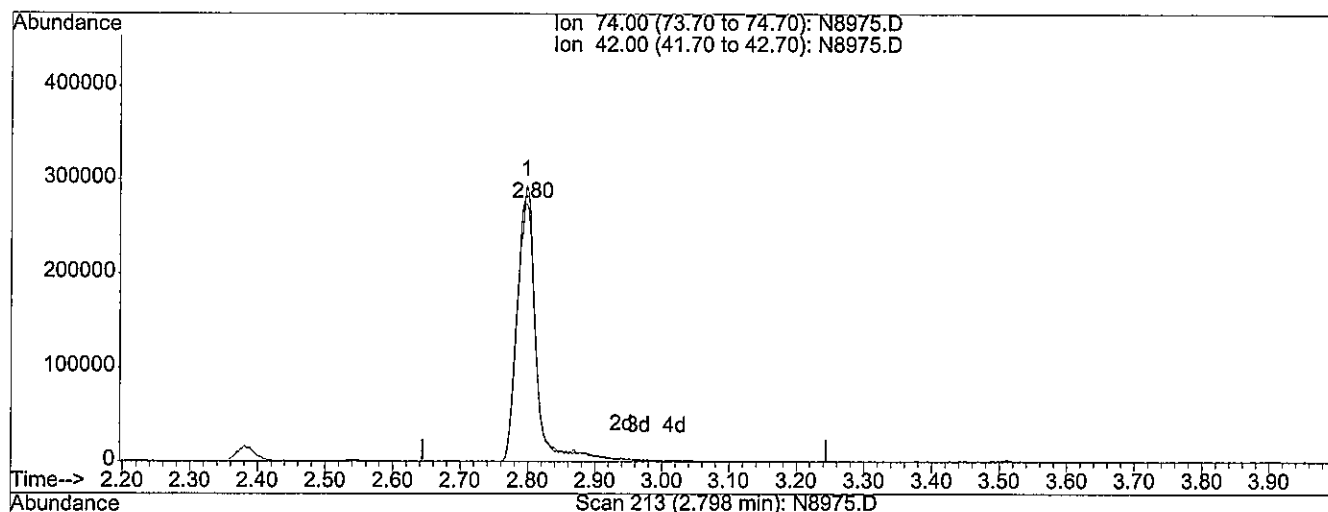
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:17 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.80min 50.88ng/uL m

response 552317

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	104.09
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials 74 date 12-26-13

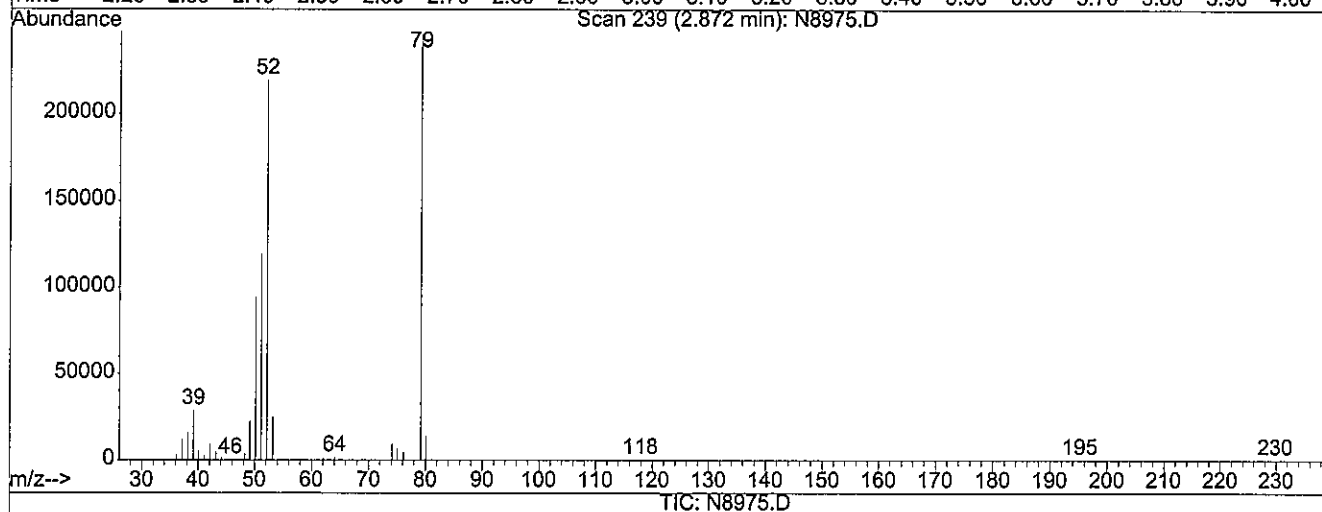
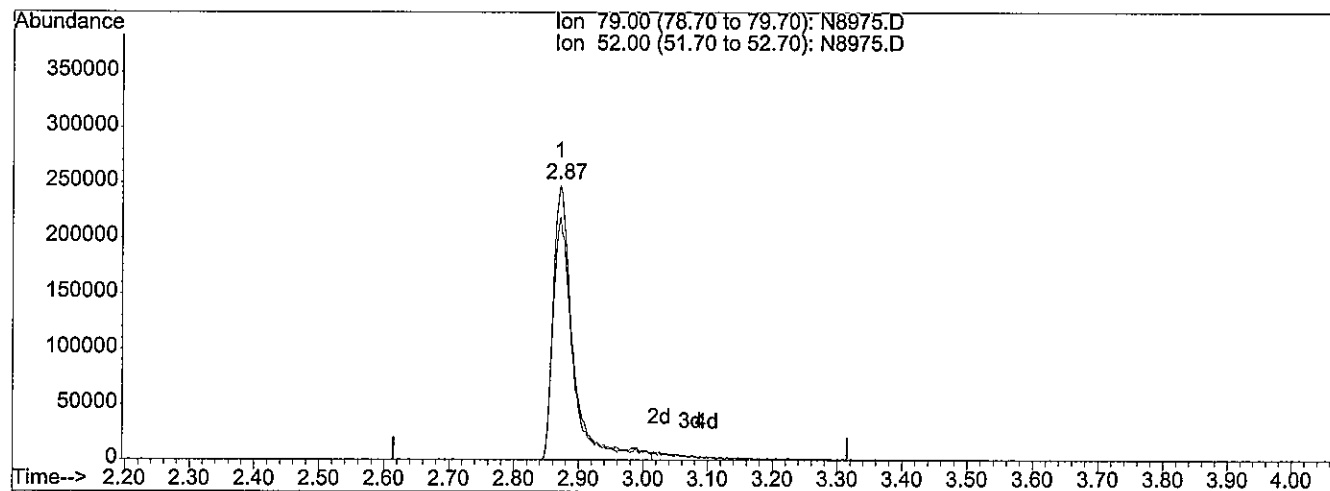
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:17 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 30.69ng/uL

response 539404

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	85.81
0.00	0.00	0.00
0.00	0.00	0.00

360

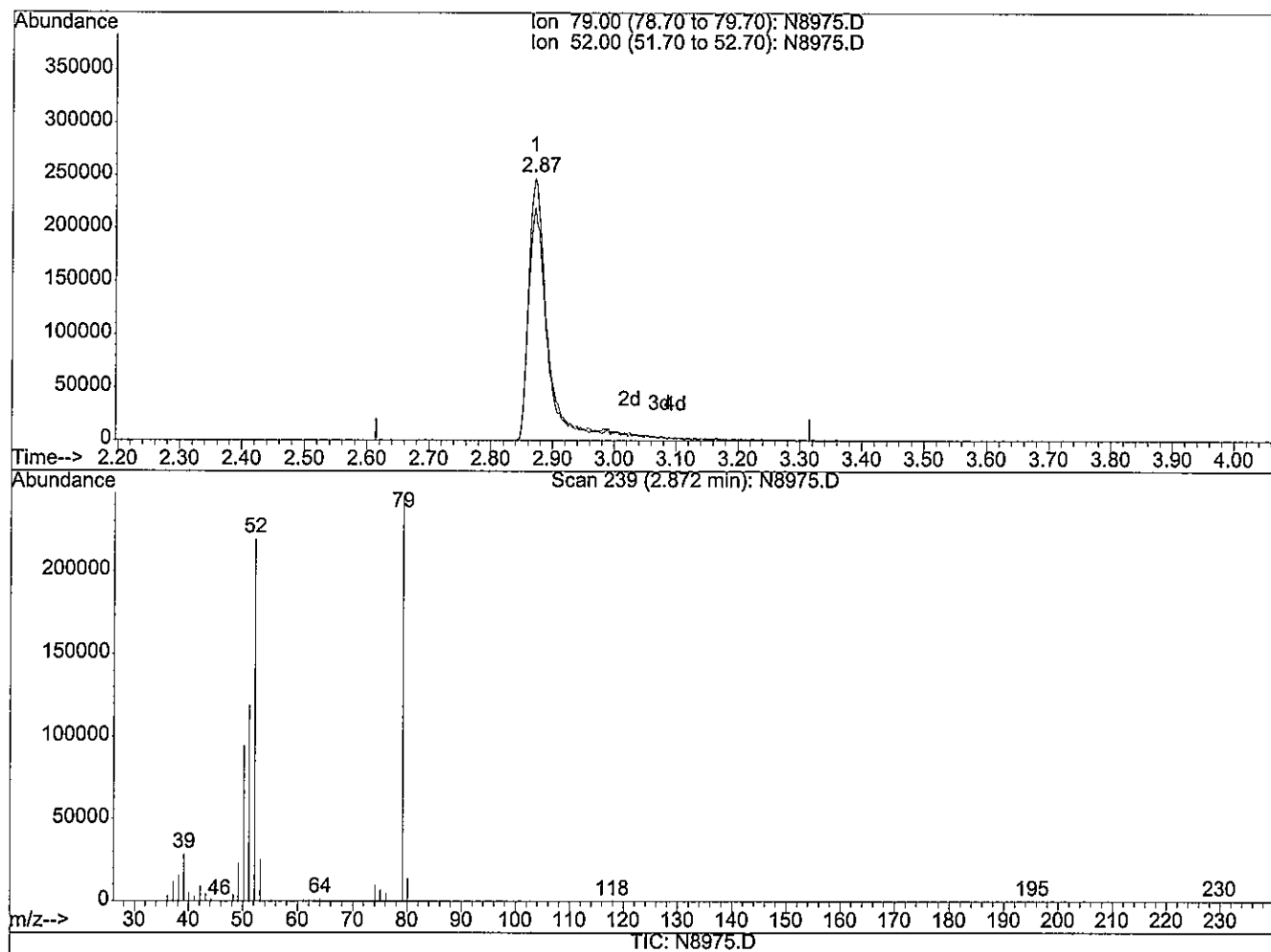
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:17 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 33.10ng/uL m

response 581816

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	79.56
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

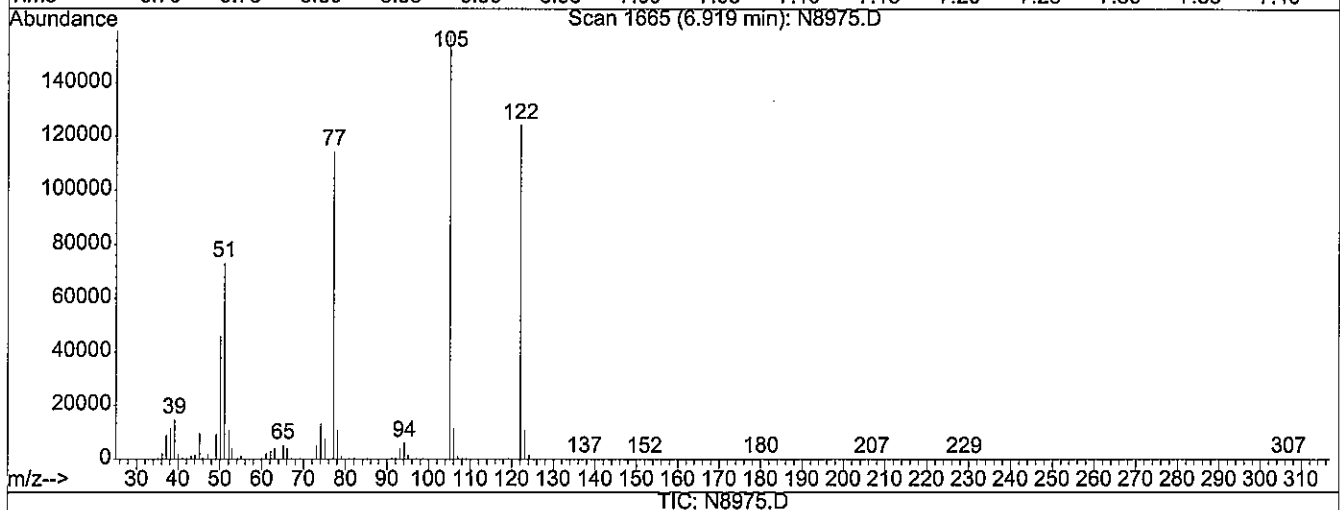
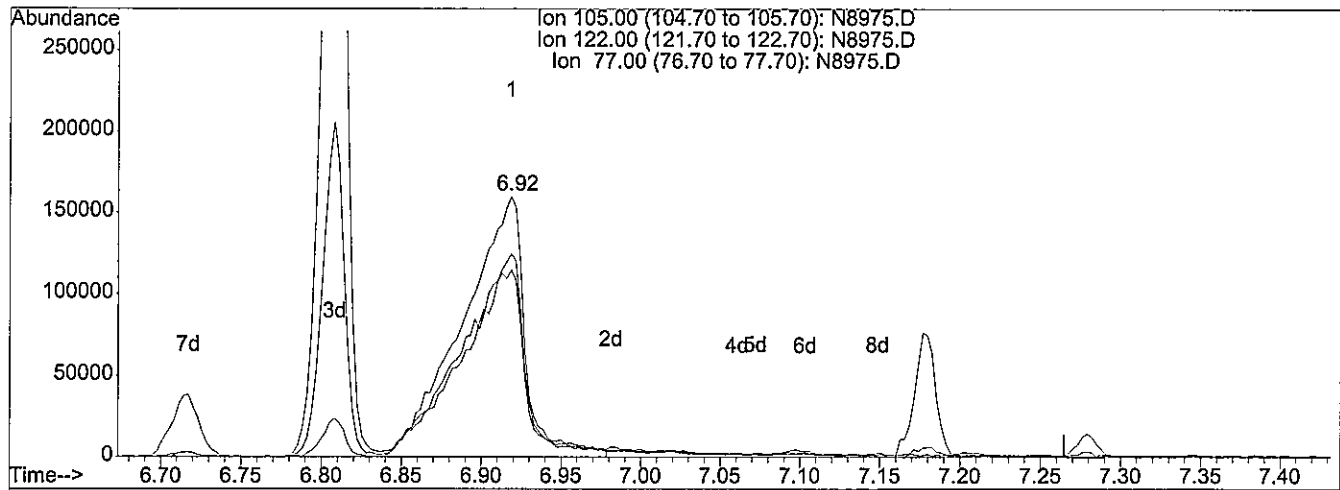
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:17 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.92min 66.44ng/uL

response 433733

Ion	Exp%	Act%
105.00	100	100
122.00	74.60	80.61
77.00	71.30	74.81
0.00	0.00	0.00

Scor

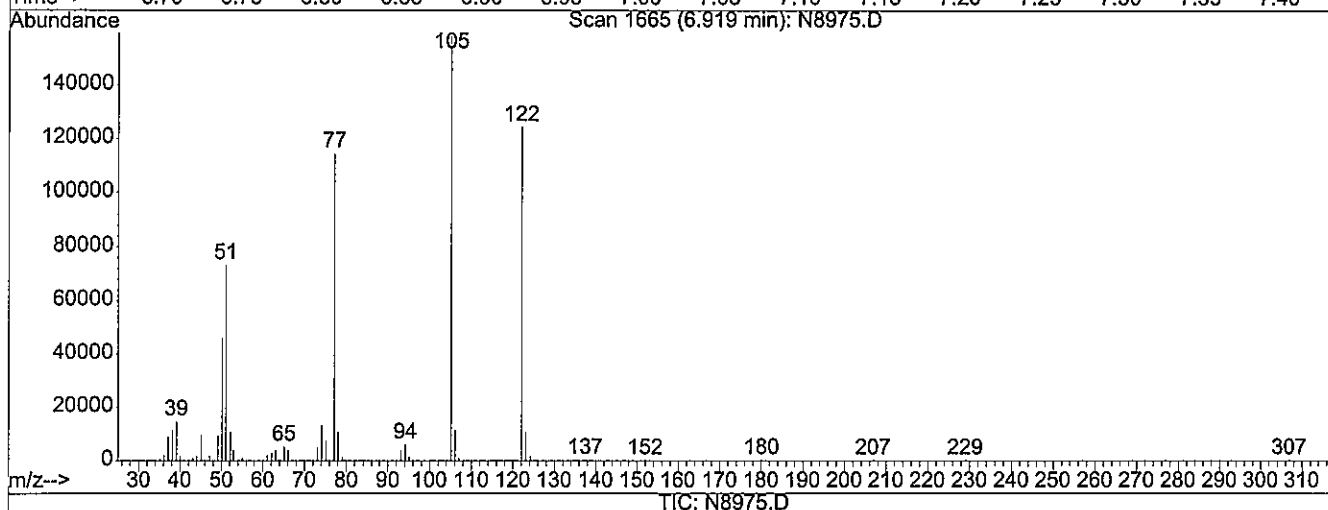
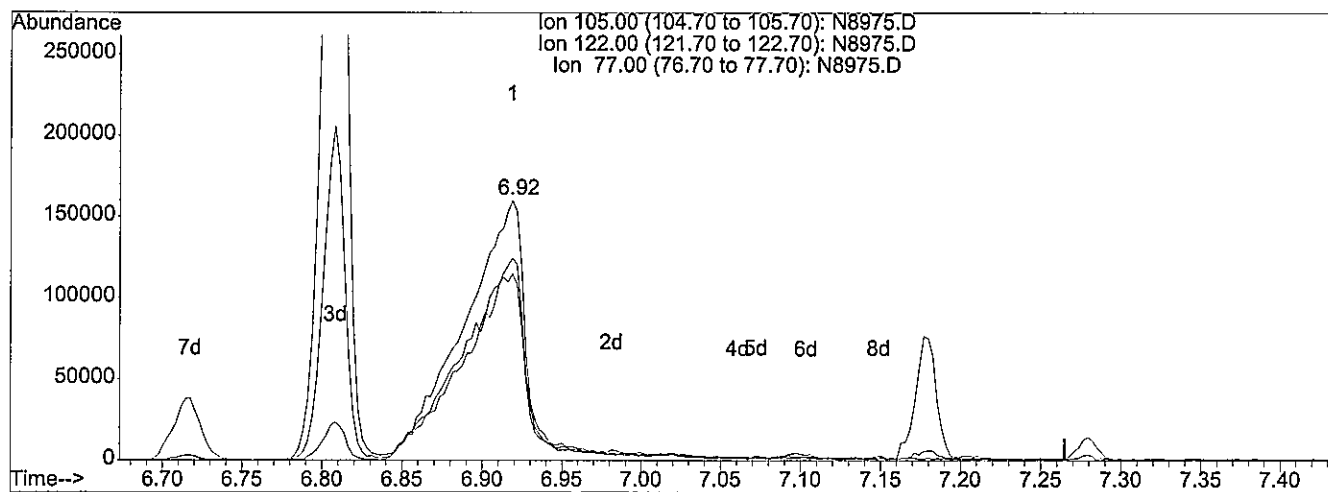
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:18 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.92min 69.91ng/uL m

response 456428

Ion	Exp%	Act%
105.00	100	100
122.00	74.60	76.60
77.00	71.30	71.09
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

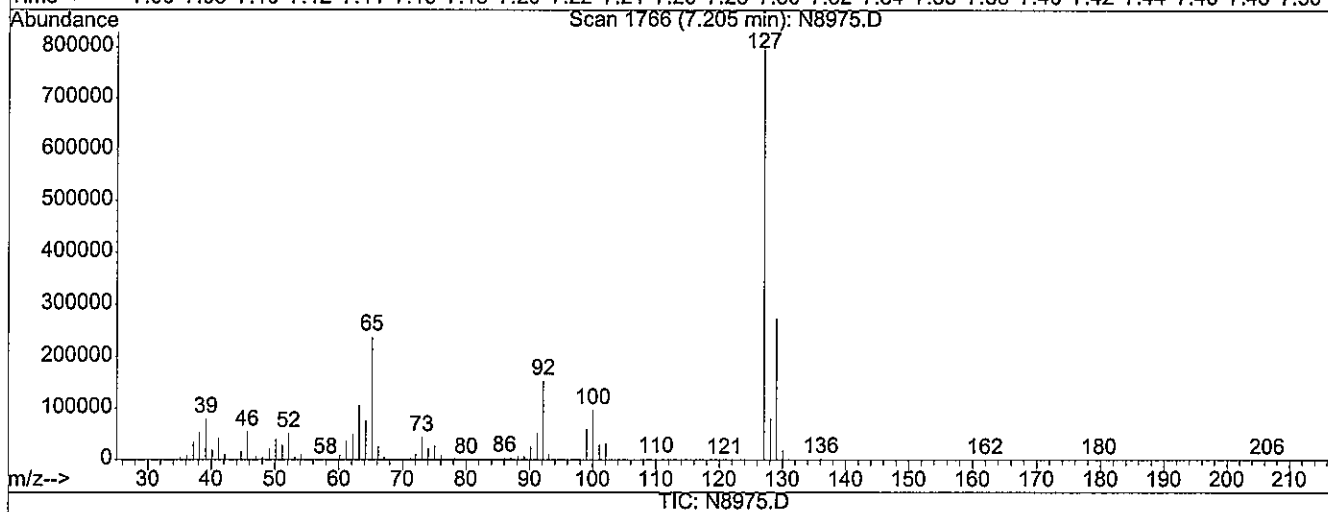
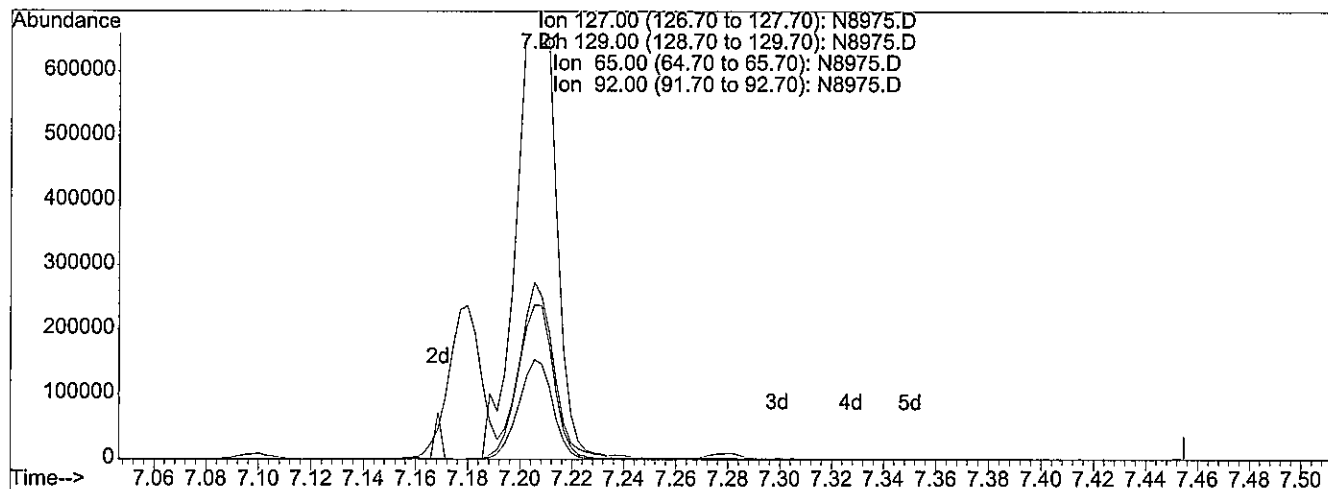
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:18 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 54.60ng/uL

response 806435

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	31.39
65.00	29.50	28.21
92.00	18.50	17.62

366

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D

Vial: 19

Acq On : 23 Dec 2013 19:00

Operator: jk SOP 50

Sample : EX131216-8LCS

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:18 2013

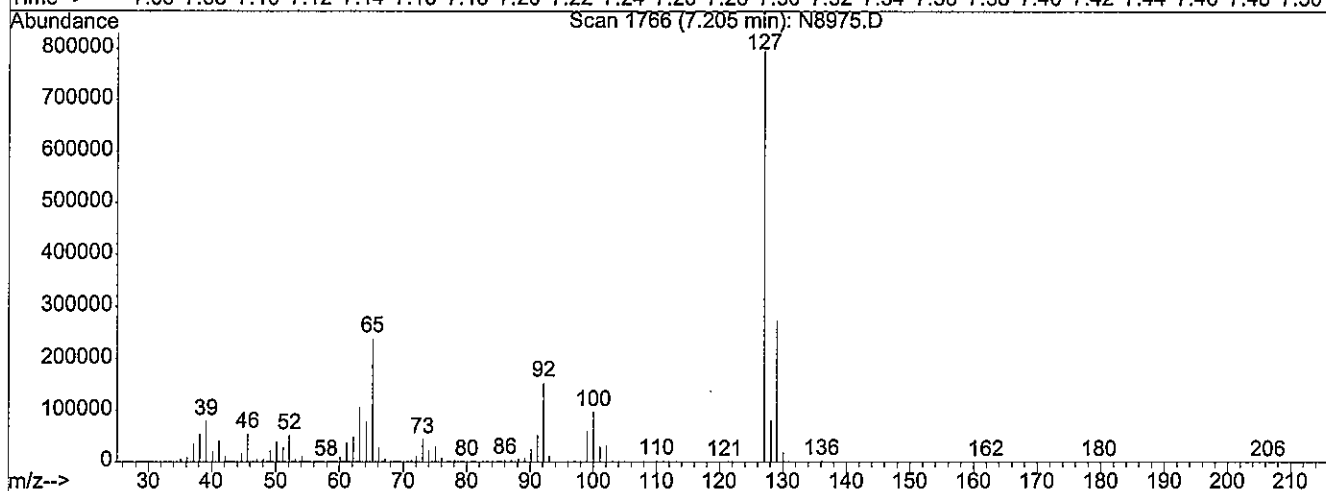
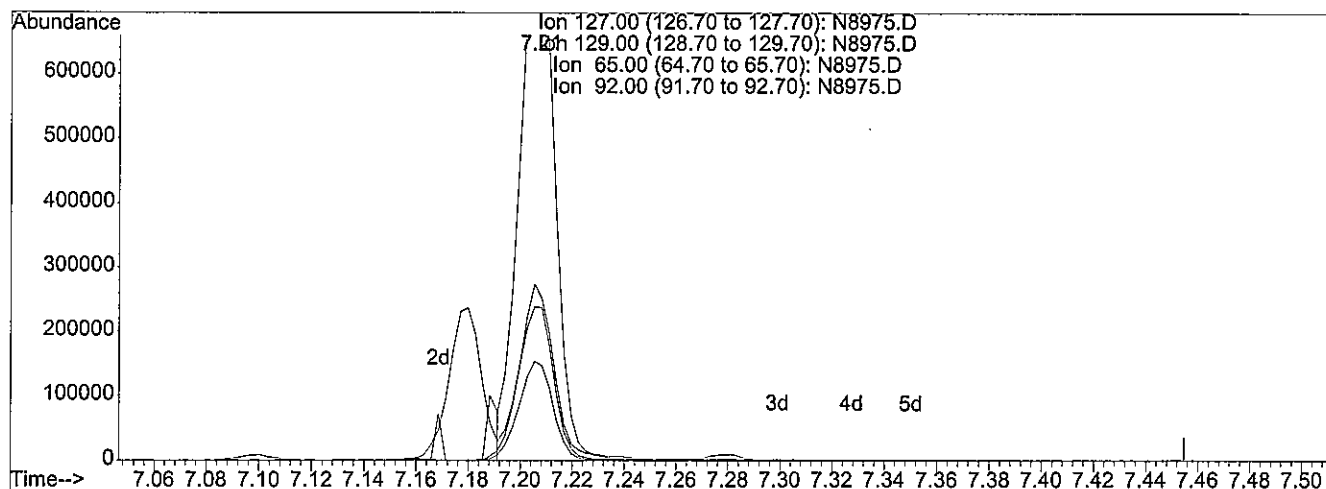
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 52.76ng/uL m

response 779222

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	32.49
65.00	29.50	29.19
92.00	18.50	18.23

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

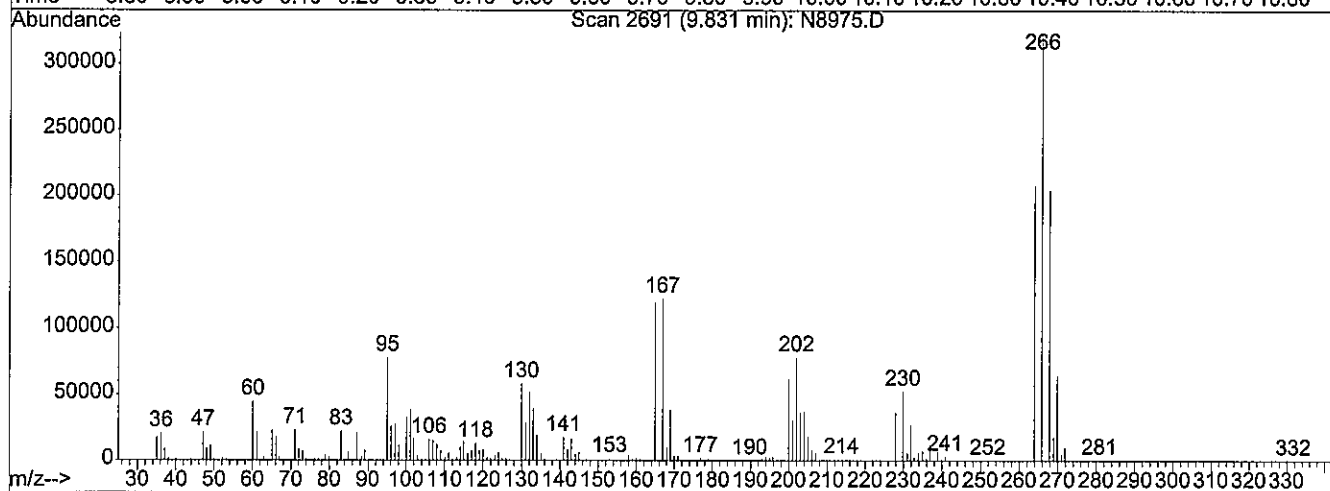
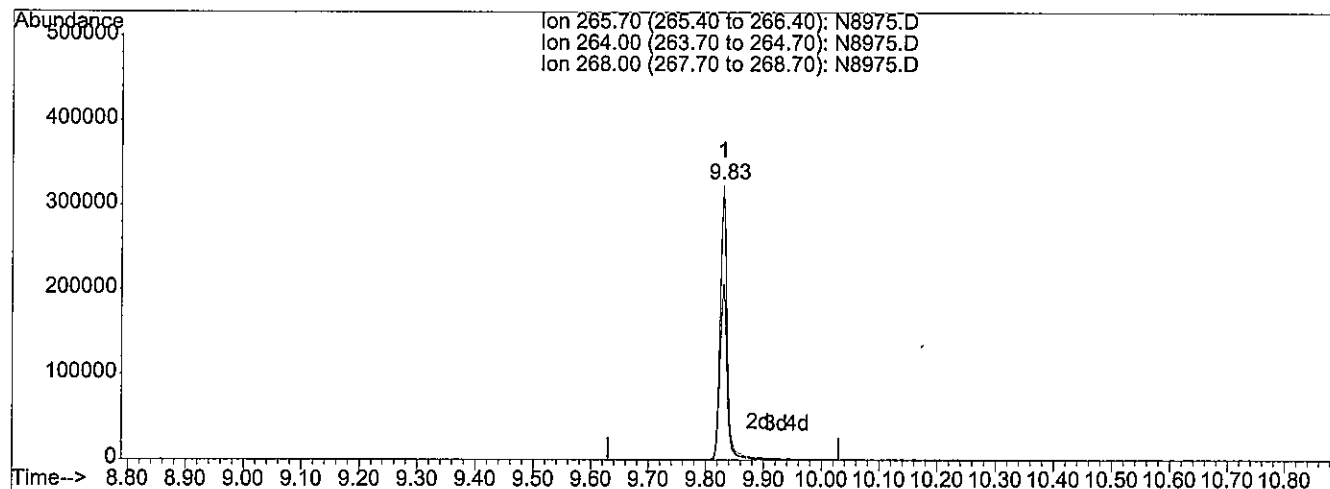
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D
 Acq On : 23 Dec 2013 19:00
 Sample : EX131216-8LCS
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:18 2013

Vial: 19
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 51.22ng/uL

response 274367

Ion	Exp%	Act%
265.70	100	100
264.00	62.70	65.42
268.00	63.40	64.51
0.00	0.00	0.00

3.6m

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8975.D

Vial: 19

Acq On : 23 Dec 2013 19:00

Operator: jk SOP 50

Sample : EX131216-8LCS

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:18 2013

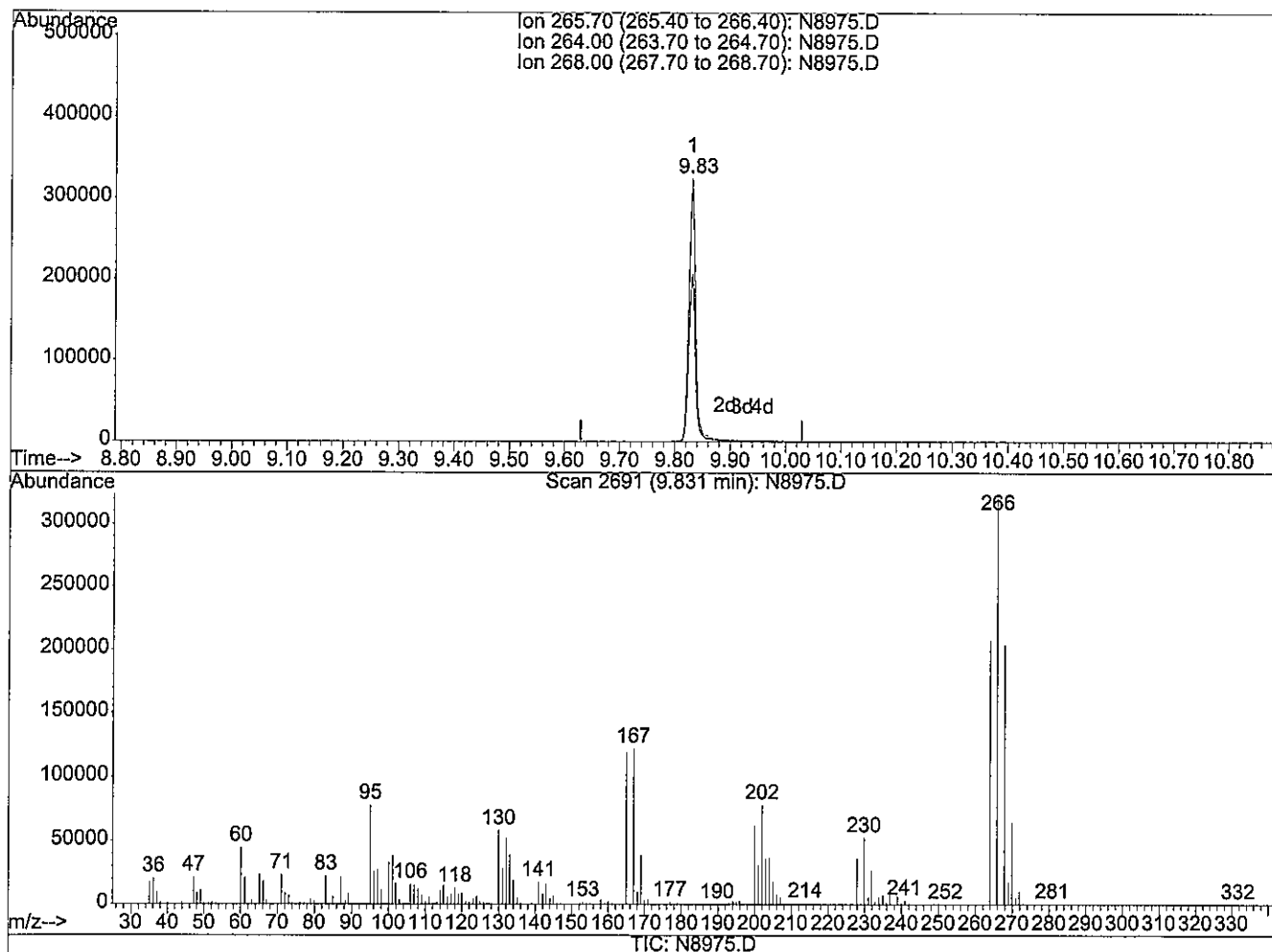
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 53.83ng/uL m

response 288342

Ion	Exp%	Act%
265.70	100	100
264.00	62.70	62.25
268.00	63.40	61.38
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26

Data File : D:\HPCHEM\1\DATA\122313\N8976.D

Vial: 20

Acq On : 23 Dec 2013 19:24

Operator: jk SOP 506 Rev

Sample : EX131216-8LCSD

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:20 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.94	152	447374✓	40.00	ng/uL	0.00
24) Naphthalene-d8	7.16	136	1634649✓	40.00	ng/uL	0.00
41) Acenaphthene-d10	8.72	164	855477✓	40.00	ng/uL	0.00
69) Phenanthrene-d10	10.00	188	1667532✓	40.00	ng/uL	0.00
80) Chrysene-d12	12.28	240	1543696✓	40.00	ng/uL	0.00
91) Perylene-d12	13.74	264	1114633✓	40.00	ng/uL	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.53	112	887401	56.04	ng/uL	0.00
Spiked Amount 75.000	Range 46	- 105	Recovery	=	74.72%	/
6) 2-Chlorophenol-d4	5.72	132	864617	59.74	ng/uL	0.00
Spiked Amount 75.000	Range 33	- 110	Recovery	=	79.65%	/
8) Phenol-d5	5.54	99	1164072	60.51	ng/uL	0.00
Spiked Amount 75.000	Range 50	- 109	Recovery	=	80.68%	/
15) 1,2-Dichlorobenzene-d4	6.10	152	366496	33.52	ng/uL	0.00
Spiked Amount 50.000	Range 16	- 110	Recovery	=	67.04%	/
25) Nitrobenzene-d5	6.48	82	590612	43.23	ng/uL	0.00
Spiked Amount 50.000	Range 53	- 111	Recovery	=	86.46%	/
46) 2-Fluorobiphenyl	8.10	172	1183348	41.40	ng/uL	0.00
Spiked Amount 50.000	Range 55	- 108	Recovery	=	82.80%	/
68) 2,4,6-Tribromophenol	9.40	330	226311	65.26	ng/uL	0.00
Spiked Amount 75.000	Range 42	- 117	Recovery	=	87.01%	/
83) p-Terphenyl-d14	11.32	244	1479356	43.73	ng/uL	0.00
Spiked Amount 50.000	Range 34	- 139	Recovery	=	87.46%	/

Target Compounds

					Qvalue
2) 1,4-Dioxane	2.38	88	323140m	42.63	ng/uL
3) n-Nitrosodimethylamine	2.79	74	520565m	47.58	ng/uL
4) Pyridine	2.87	79	578417m	32.65	ng/uL
7) Aniline	5.61	93	949453	45.12	ng/uL
9) Phenol	5.56	94	867874	46.10	ng/uL
10) Tetramethylurea	0.00	72	0	N.D.	d
11) Bis(2-chloroethyl) ether	5.65	93	655364	45.94	ng/uL
12) 2-Chlorophenol	5.74	128	676942	45.70	ng/uL
13) 1,3-Dichlorobenzene	5.89	146	703789	41.15	ng/uL
14) 1,4-Dichlorobenzene	5.96	146	659894	41.56	ng/uL
16) 1,2-Dichlorobenzene	6.12	146	615907	42.09	ng/uL
17) Benzyl Alcohol	6.06	108	449882	46.97	ng/uL
18) 2-Methylphenol	6.16	107	561853	47.49	ng/uL#
19) Bis(2-chloroisopropyl) ethe	6.19	45	1005213	47.41	ng/uL#
20) n-Nitroso-di-n-propylamine	6.31	70	481202	50.16	ng/uL
21) 3+4-Methylphenol	6.31	108	658934	46.12	ng/uL#

(#)= qualifier out of range (m) = manual integration

N8976.D 122313S1.M Thu Dec 26 12:20:49 2013

21

12-26-11

Page 1

194 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8976.D

Vial: 20

Acq On : 23 Dec 2013 19:24

Operator: jk SOP 506 Rev

Sample : EX131216-8LCSD

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:20 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
22) N-Methylaniline	0.00	106	0	N.D.		
23) Hexachloroethane	6.45	117	274854	41.92	ng/uL	99
26) N,N-Dimethylaniline	0.00	120	0	N.D.		
27) Nitrobenzene	6.50	77	675103	38.43	ng/uL	85
28) Isophorone	6.71	82	1291367	51.79	ng/uL	100
29) N-Ethylaniline	0.00	106	0	N.D.	d	
30) 2-Nitrophenol	6.80	139	384626	54.01	ng/uL	98
31) 2,4-Dimethylphenol	6.81	107	638715	48.51	ng/uL	97
32) Bis(2-chloroethoxy)methane	6.89	93	769314	50.27	ng/uL	99
33) Benzoic acid	6.92	105	448653m	68.27	ng/uL	
34) 2,4-Dichlorophenol	7.02	162	597821	51.12	ng/uL	99
35) 1,2,4-Trichlorobenzene	7.10	180	604325	44.83	ng/uL	99
36) Naphthalene	7.18	128	1820521	47.85	ng/uL#	99
37) 4-Chloroaniline	7.21	127	745550m	50.15	ng/uL	
38) Hexachlorobutadiene	7.28	225	352240	44.37	ng/uL	99
39) 4-Chloro-3-methylphenol	7.62	107	644035	53.35	ng/uL	99
40) 2-Methylnaphthalene	7.79	142	1384965	51.69	ng/uL	99
42) 1-Methylnaphthalene	7.88	142	1164301	44.58	ng/uL	100
43) Hexachlorocyclopentadiene	7.93	237	133835	21.32	ng/uL	99
44) 2,4,6-Trichlorophenol	8.03	196	440014	50.79	ng/uL	99
45) 2,4,5-Trichlorophenol	8.07	196	439826	53.13	ng/uL	98
47) 2-Chloronaphthalene	8.23	162	1253761	50.19	ng/uL	99
48) 2-Nitroaniline	8.30	65	368065	54.18	ng/uL	99
49) 1,4-Dinitrobenzene	8.40	168	218527	56.74	ng/uL	97
50) Dimethylphthalate	8.43	163	1337983	51.78	ng/uL	100
51) 1,3-Dinitrobenzene	8.47	168	244072	55.45	ng/uL	99
52) 2,6-Dinitrotoluene	8.50	165	306138	52.86	ng/uL	97
53) 1,2-Dinitrobenzene	8.56	168	157831	52.82	ng/uL	98
54) Acenaphthylene	8.60	152	1947315	51.96	ng/uL	100
55) 3-Nitroaniline	8.66	138	330315	55.21	ng/uL	97
56) Acenaphthene	8.75	154	1149987	51.73	ng/uL	99
57) 2,4-Dinitrophenol	8.74	184	145662	54.87	ng/uL	91
58) 4-Nitrophenol	8.78	109	158967	51.97	ng/uL	99
59) Dibenzofuran	8.89	168	1633919	49.85	ng/uL	99
60) 2,4-Dinitrotoluene	8.85	165	434862	57.24	ng/uL	99
61) 2,3,5,6-Tetrachlorophenol	8.95	232	576705	83.69	ng/uL	99
62) 2,3,4,6-Tetrachlorophenol	8.99	232	582753	84.23	ng/uL	98
63) Diethylphthalate	9.03	149	1315409	53.35	ng/uL	99
64) 4-Chlorophenyl phenyl ethe	9.16	204	736033	51.83	ng/uL	99
65) 4-Nitroaniline	9.19	138	310164	60.05	ng/uL	94
66) Fluorene	9.19	166	1236702	50.01	ng/uL	99

(#)=qualifier out of range (m)=manual integration

N8976.D 122313S1.M Thu Dec 26 12:20:50 2013

Page 2

195 of 211

Data File : D:\HPCHEM\1\DATA\122313\N8976.D

Vial: 20

Acq On : 23 Dec 2013 19:24

Operator: jk SOP 506 Rev

Sample : EX131216-8LCSD

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:20 2013

Quant Results File: 122313S1.RES

Quant Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Initial Calibration

DataAcq Meth : 122313S1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) Azobenzene	9.30	77	1185098	51.17	ng/uL	99
70) 4,6-Dinitro-2-methylphenol	9.21	198	234266	54.22	ng/uL	97
71) n-Nitrosodiphenylamine	9.25	169	1055713	45.63	ng/uL	99
72) 4-Bromophenyl phenyl ether	9.58	248	449439	49.73	ng/uL	99
73) Hexachlorobenzene	9.67	284	418054	48.79	ng/uL	98
74) Pentachlorophenol	9.83	266	290038m	52.06	ng/uL	
75) Phenanthrene	10.02	178	1944986	51.52	ng/uL	100
76) Anthracene	10.07	178	1968330	50.90	ng/uL	99
77) Carbazole	10.19	167	2027109	53.97	ng/uL	100
78) Di-n-butylphthalate	10.41	149	2610201	53.51	ng/uL	100
79) Fluoranthene	11.05	202	2688104	51.50	ng/uL	100
81) Benzidine	11.11	184	791501	30.89	ng/uL	99
82) Pyrene	11.25	202	2618509	52.20	ng/uL	100
84) Butylbenzylphthalate	11.70	149	1089764	54.17	ng/uL	99
85) Bis(2-ethylhexyl) adipate	11.71	129	765400	51.37	ng/uL	100
86) Bis(2-ethylhexyl)phthalate	12.15	149	1391196	53.72	ng/uL	100
87) 3,3'-Dichlorobenzidine	12.21	252	509954	35.04	ng/uL	100
88) Benzo[a]anthracene	12.27	228	2288146	52.47	ng/uL	100
89) Chrysene	12.31	228	2039592	53.05	ng/uL	100
90) Di-n-octylphthalate	12.71	149	2116173	54.75	ng/uL	100
92) Benzo[b]fluoranthene	13.30	252	1955717	53.42	ng/uL	99
93) Benzo[k]fluoranthene	13.33	252	1746417	52.03	ng/uL	99
94) Benzo[a]pyrene	13.68	252	1523785	48.71	ng/uL	100
95) Indeno(1,2,3-c,d)pyrene	15.18	276	1210095	49.65	ng/uL	99
96) Dibenzo[a,h]anthracene	15.17	278	1096580	51.26	ng/uL	100
97) Benzo[g,h,i]perylene	15.62	276	1014434	51.20	ng/uL	99

(#) = qualifier out of range (m) = manual integration

N8976.D 122313S1.M Thu Dec 26 12:20:50 2013

Page 3

196 of 211

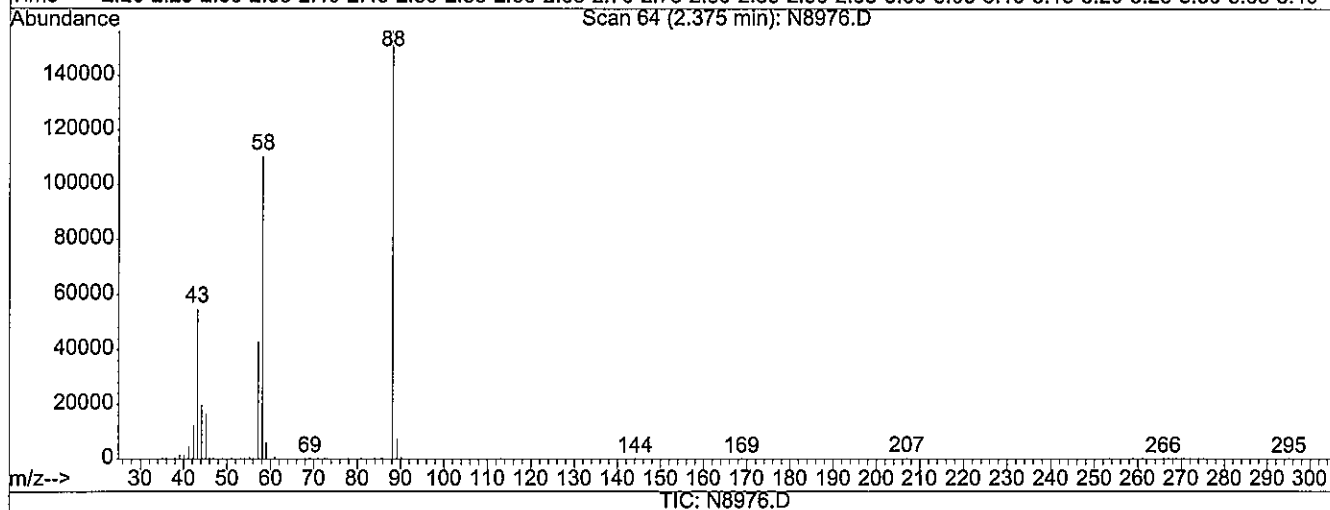
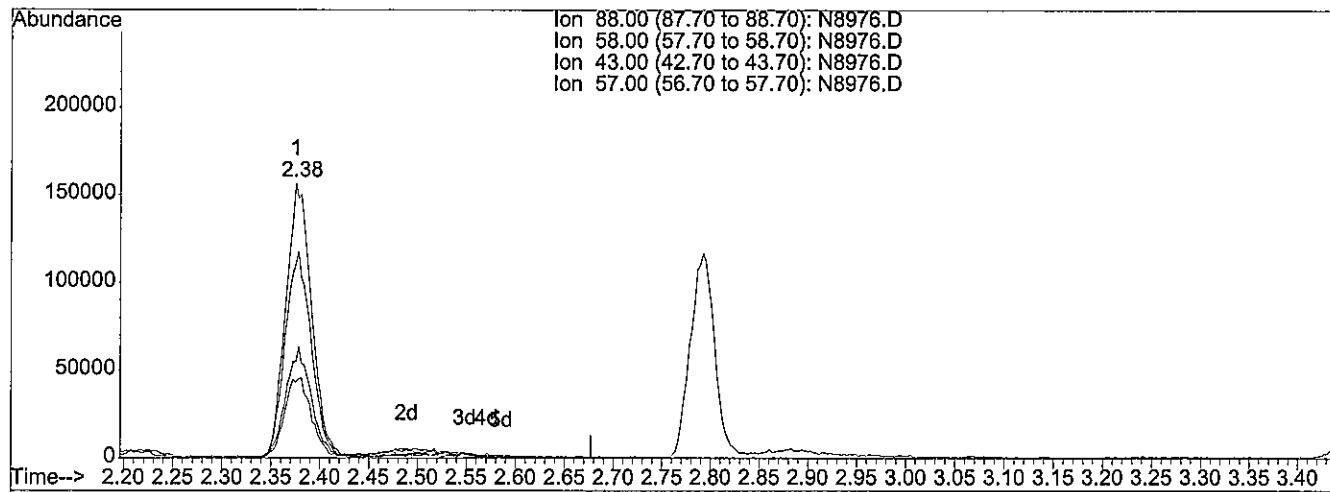
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 9:53 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 38.22ng/uL

response 289715

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	76.57
43.00	35.60	38.81
57.00	27.90	30.64

3efor

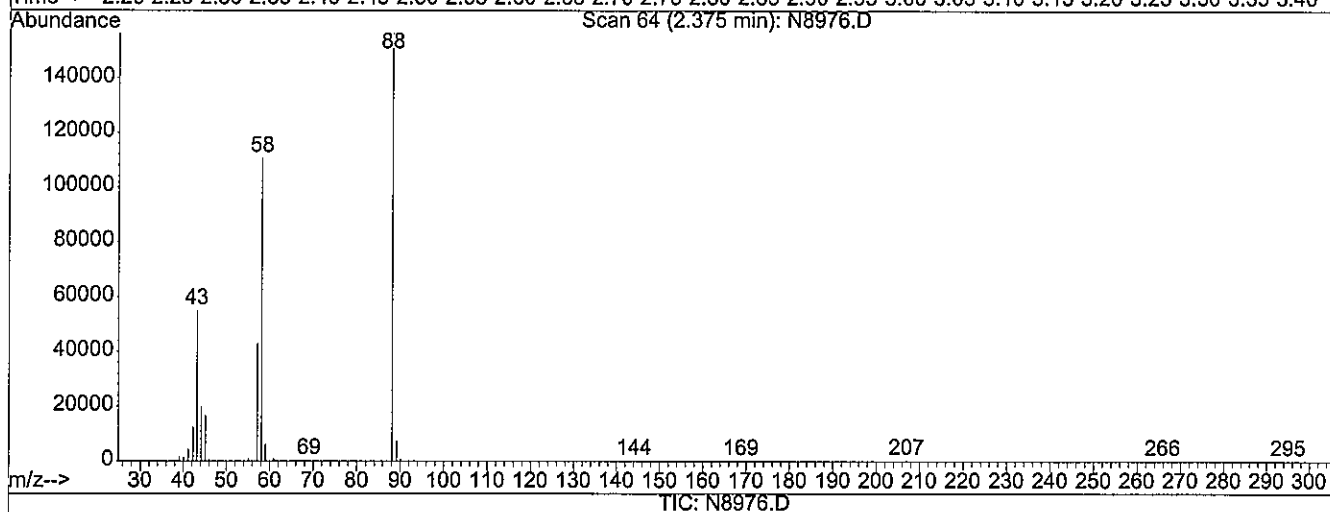
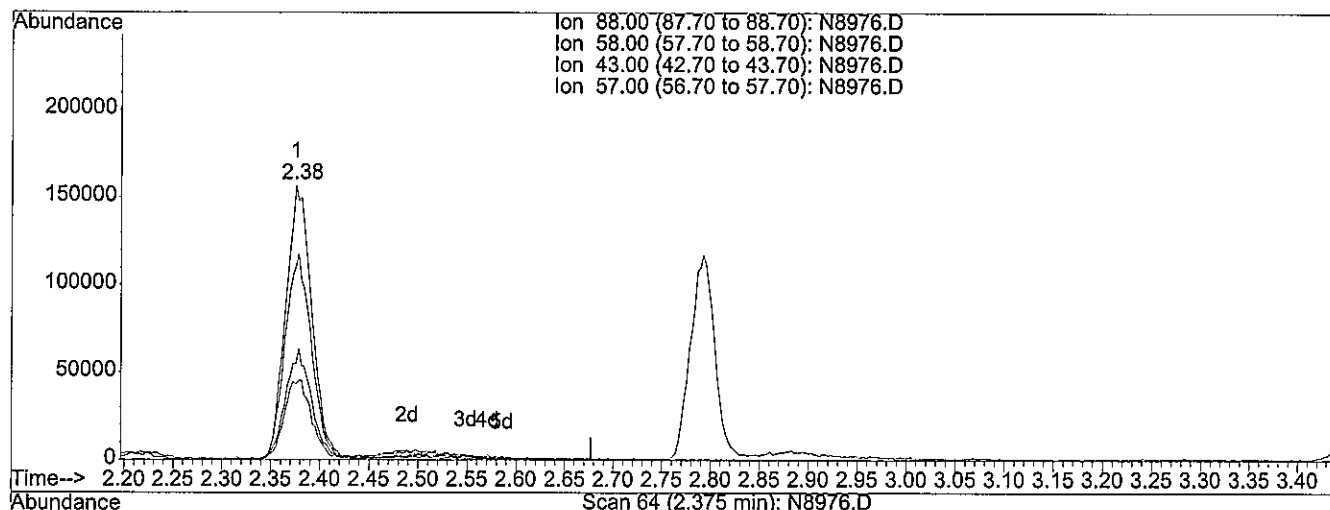
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:19 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(2) 1,4-Dioxane (t)

2.38min 42.63ng/uL m

response 323140

Ion	Exp%	Act%
88.00	100	100
58.00	69.10	68.65
43.00	35.60	34.79
57.00	27.90	27.47

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D

Vial: 20

Acq On : 23 Dec 2013 19:24

Operator: jk SOP 50

Sample : EX131216-8LCSD

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:19 2013

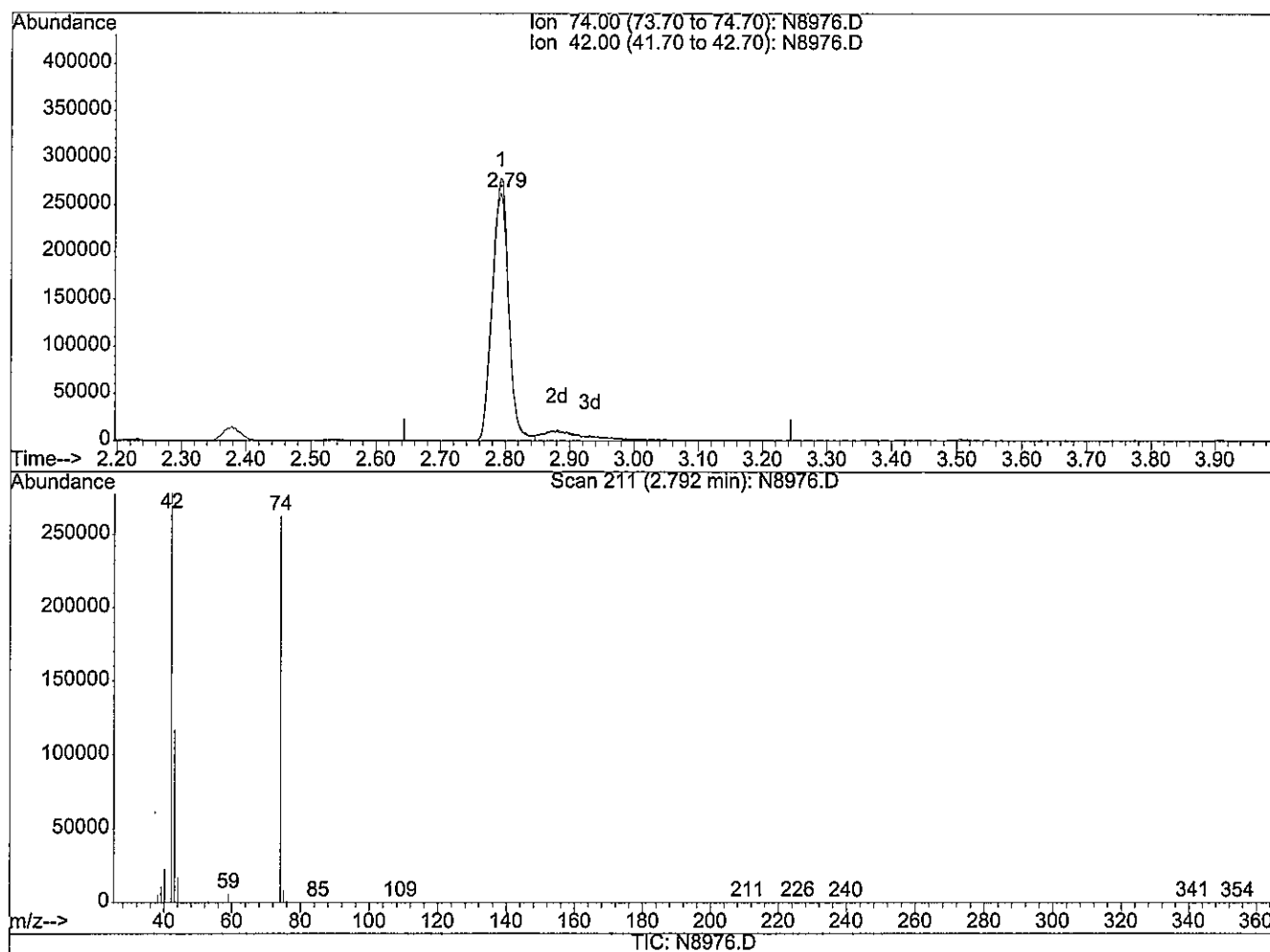
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 42.53ng/uL

response 465312

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	107.69
0.00	0.00	0.00
0.00	0.00	0.00

3.69e

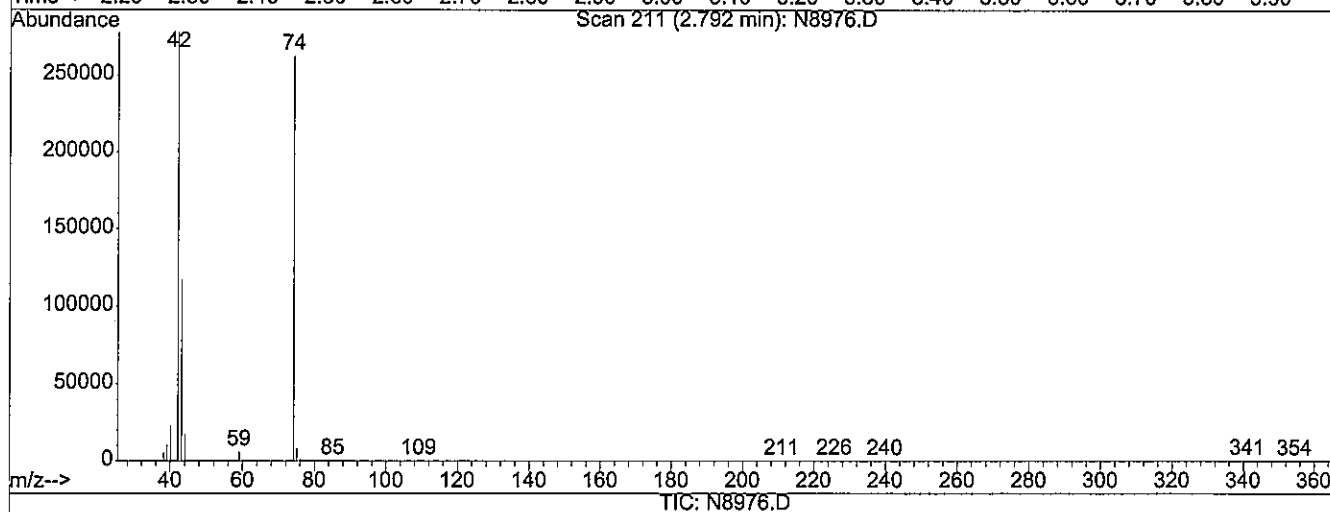
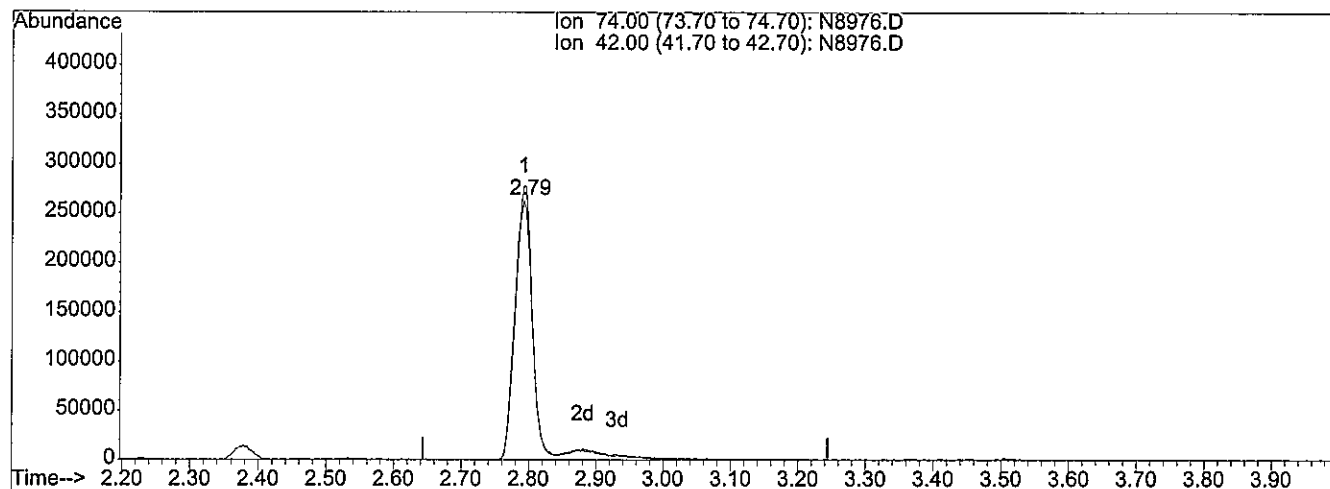
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:19 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(3) n-Nitrosodimethylamine (T)

2.79min 47.58ng/uL m

response 520565

Ion	Exp%	Act%
74.00	100	100
42.00	98.90	96.26
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

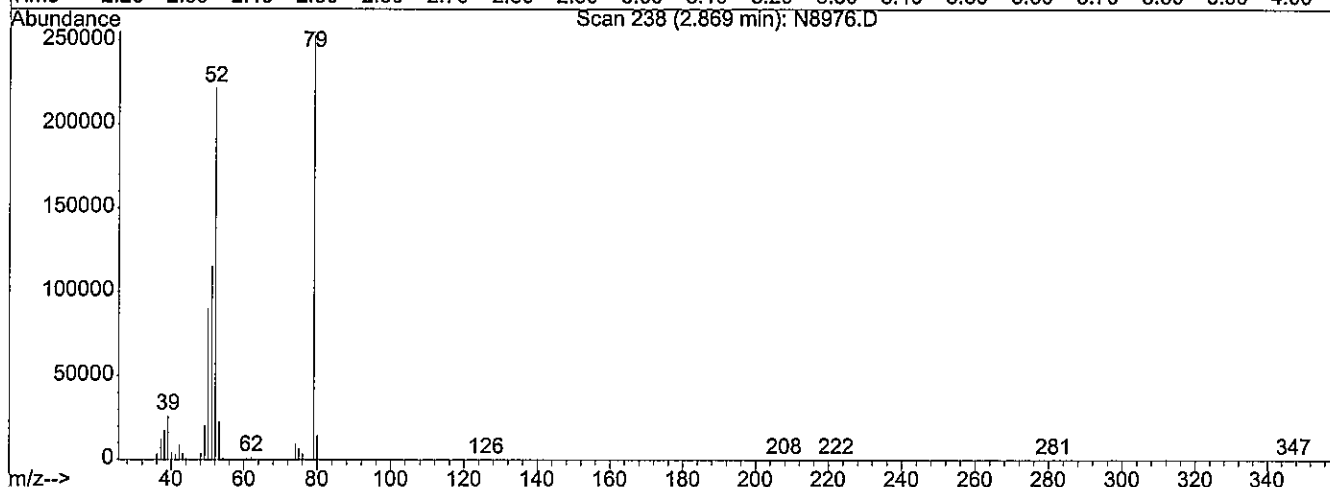
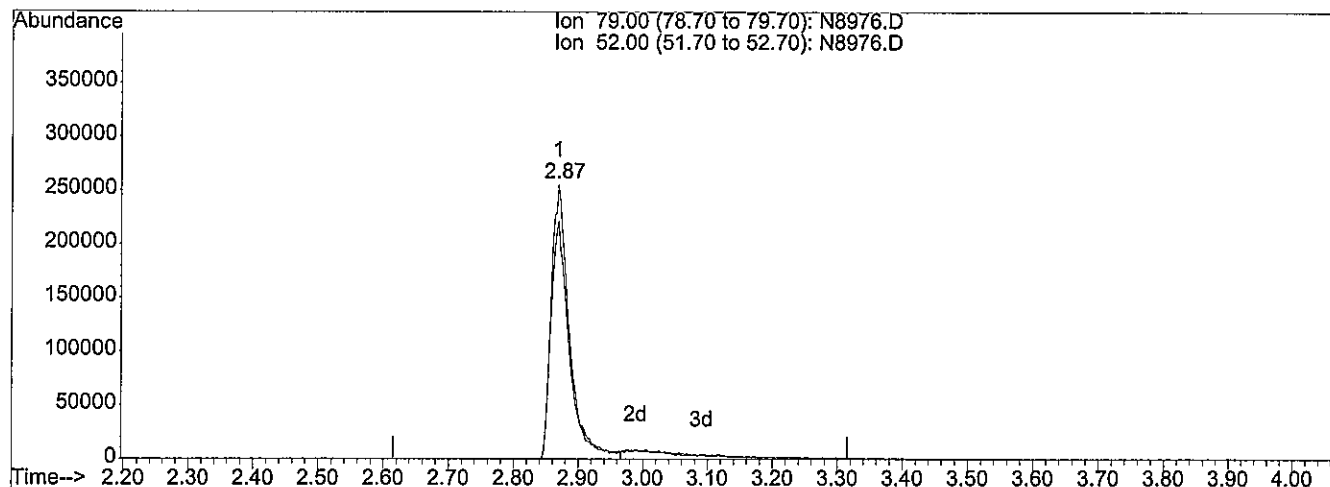
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:19 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 28.54ng/uL

response 505561

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	87.94
0.00	0.00	0.00
0.00	0.00	0.00

See for

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D

Vial: 20

Acq On : 23 Dec 2013 19:24

Operator: jk SOP 50

Sample : EX131216-8LCSD

Inst : GC/MS Ins

Misc : WATER EX131216-8

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Dec 26 12:19 2013

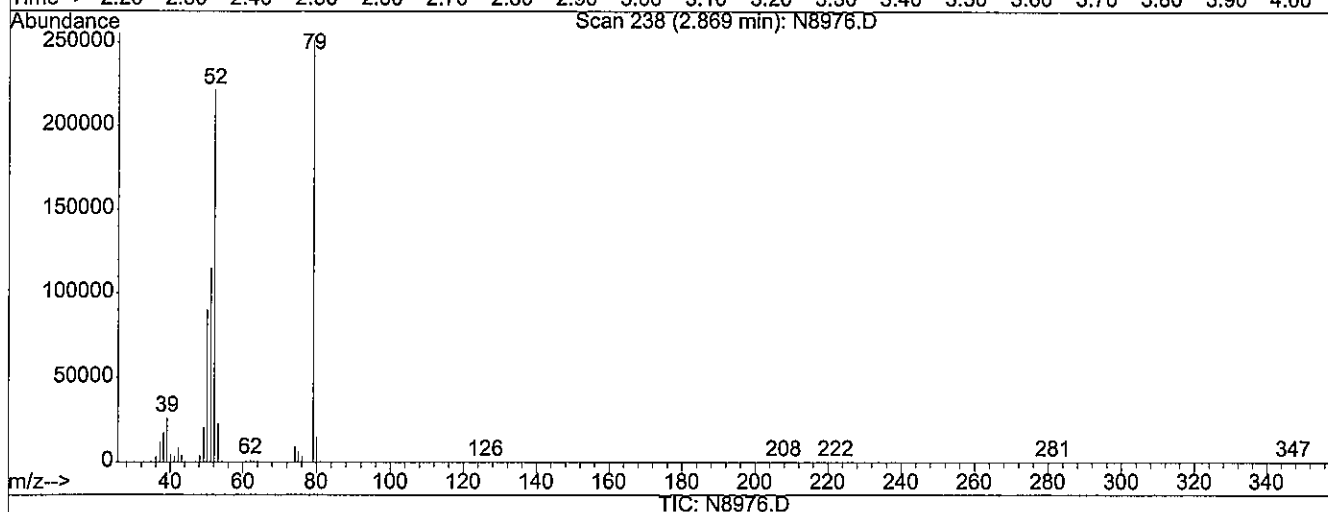
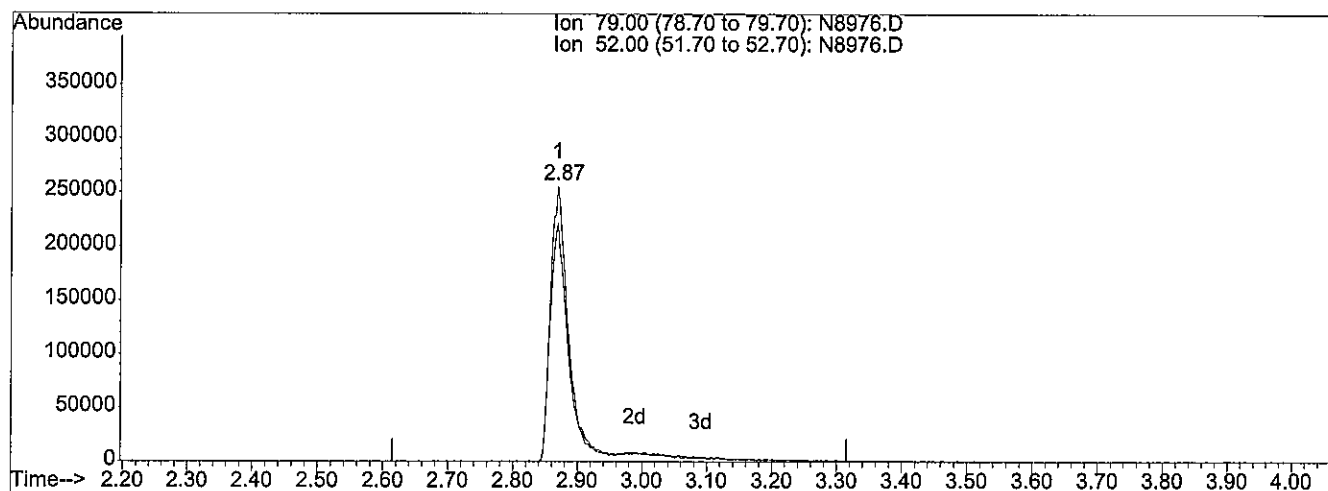
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)

Title : GC-MS Semivolatiles SOP no. 506

Last Update : Mon Dec 23 16:21:25 2013

Response via : Multiple Level Calibration



(4) Pyridine (T)

2.87min 32.65ng/uL m

response 578417

Ion	Exp%	Act%
79.00	100	100
52.00	79.80	76.86
0.00	0.00	0.00
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

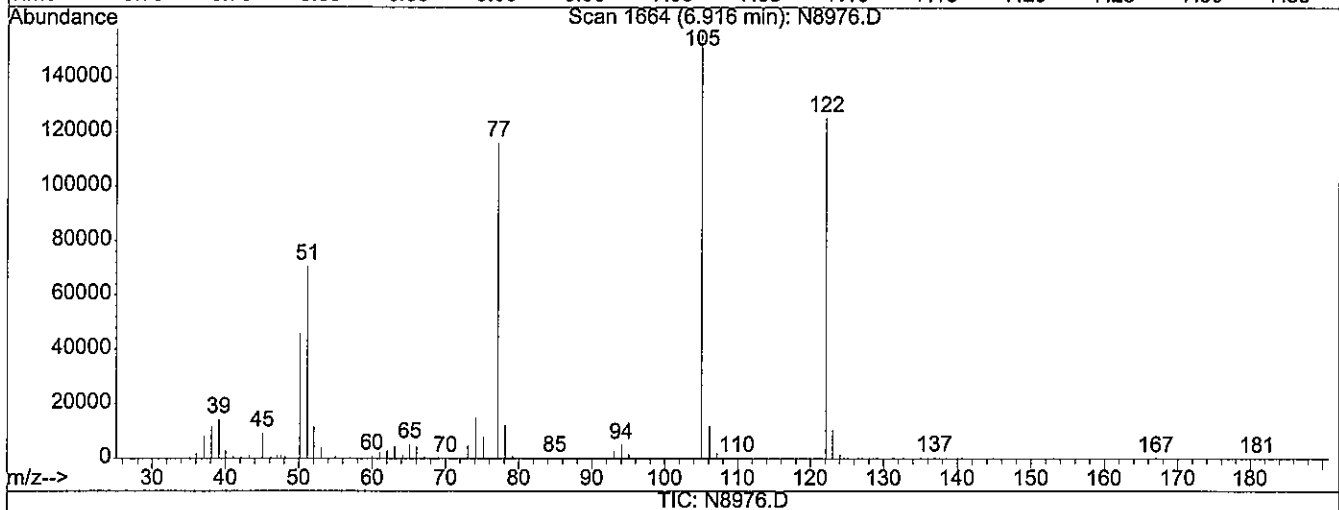
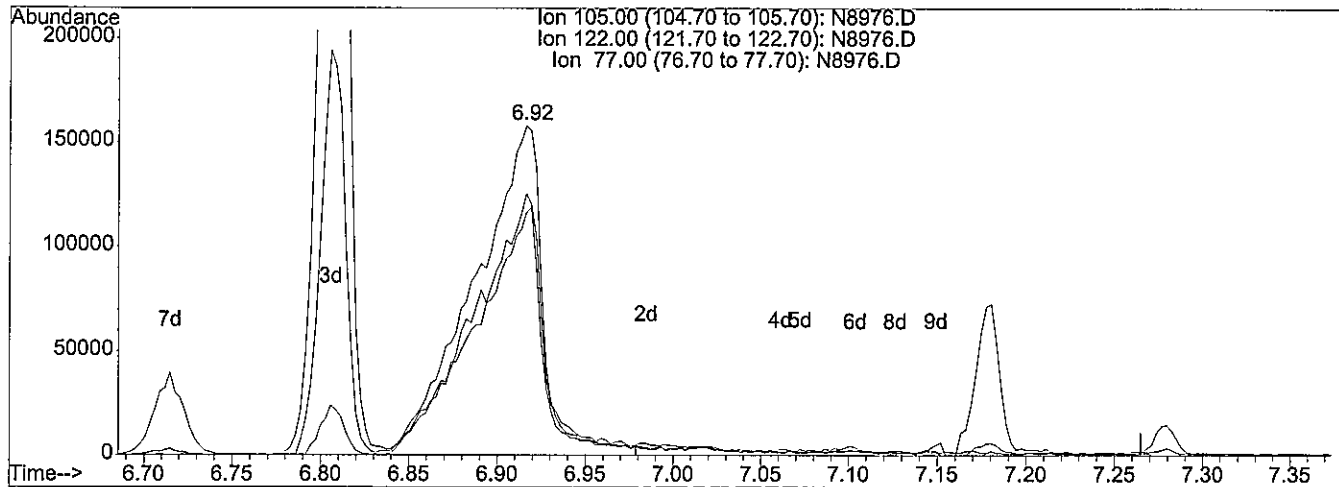
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:19 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.92min 65.05ng/uL

response 427493

Ion	Exp%	Act%
105.00	100	100
122.00	74.60	79.75
77.00	71.30	74.41
0.00	0.00	0.00

2c for

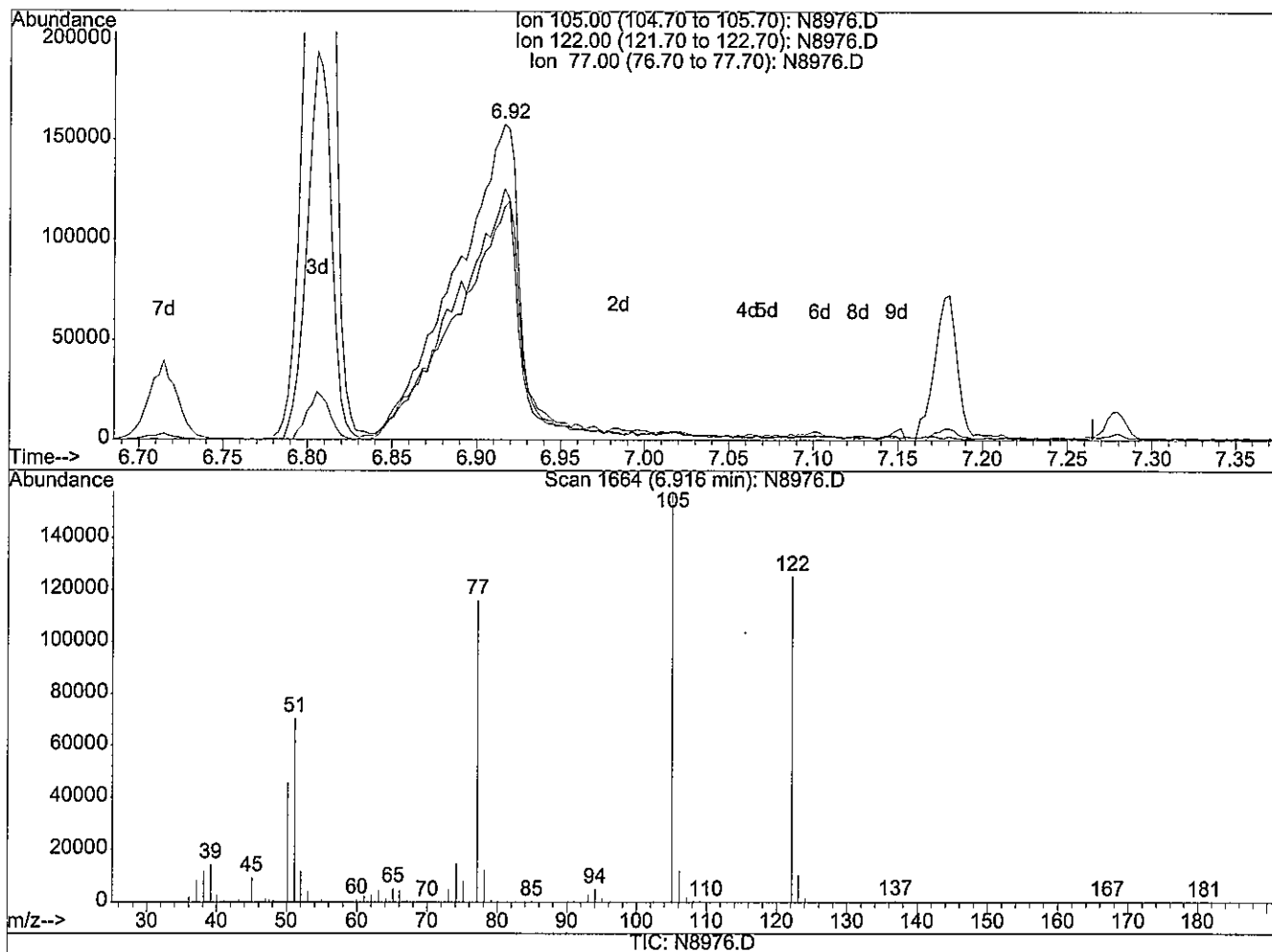
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:19 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(33) Benzoic acid (T)

6.92min 68.27ng/uL m

response 448653

Ion	Exp%	Act%
105.00	100	100
122.00	74.60	75.99
77.00	71.30	70.90
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jk date 12-26-13

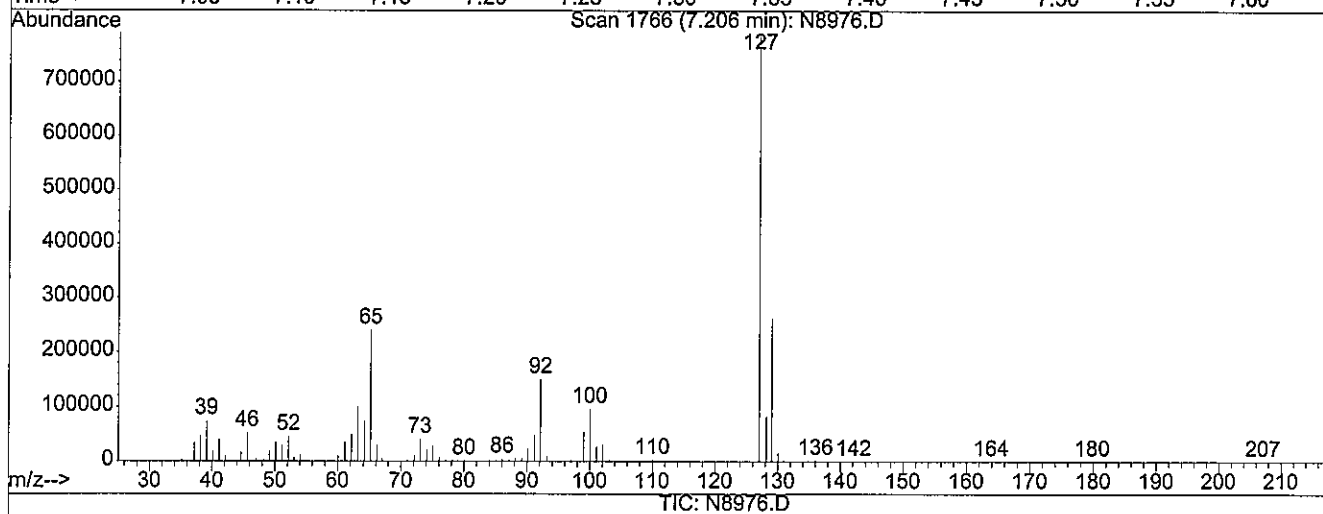
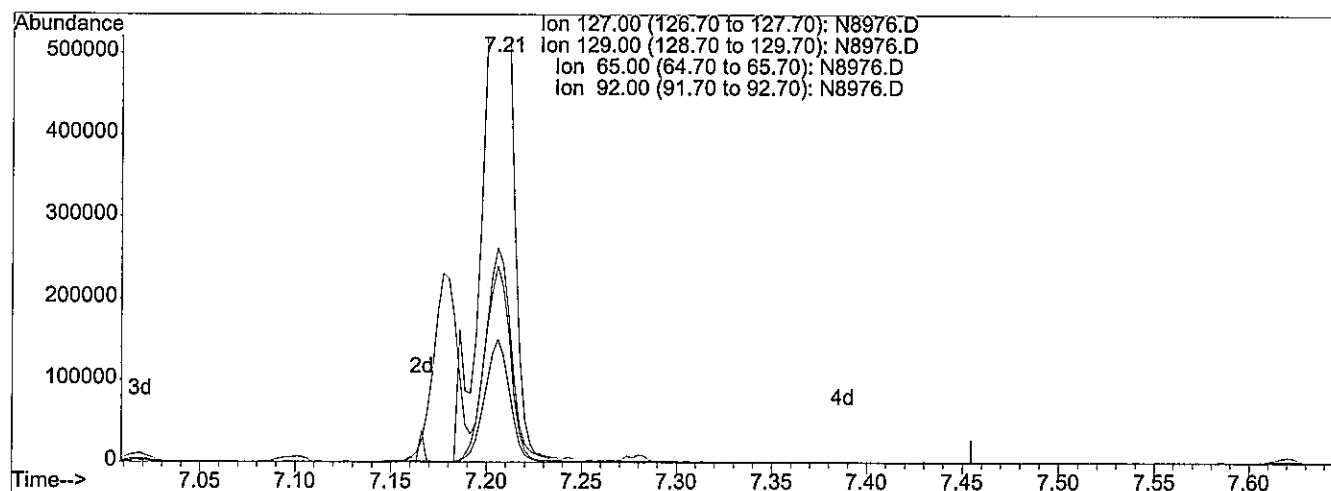
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:19 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 53.78ng/uL

response 799579

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	30.65
65.00	29.50	28.08
92.00	18.50	17.12

Refer

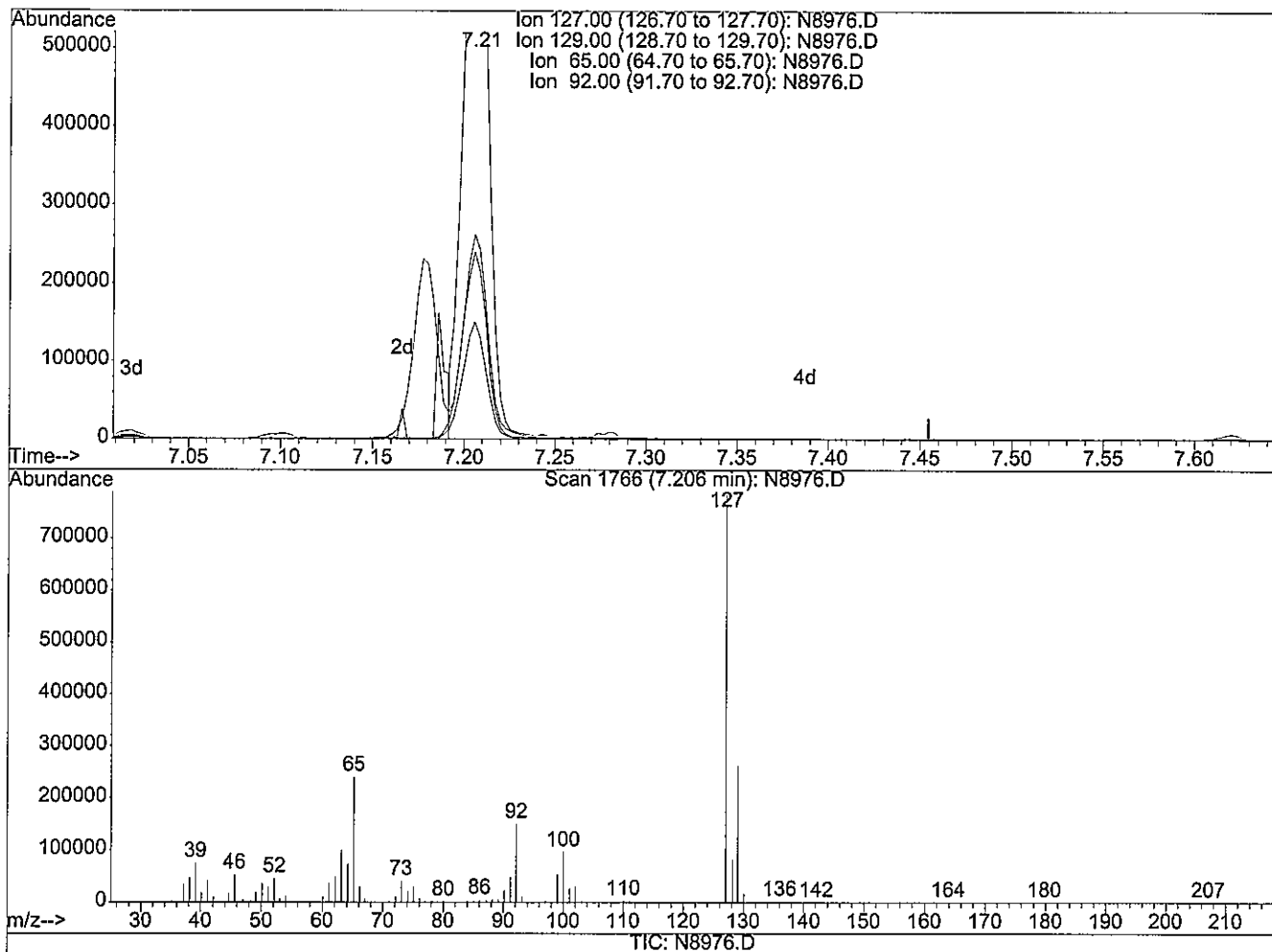
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:20 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(37) 4-Chloroaniline (T)

7.21min 50.15ng/uL m

response 745550

Ion	Exp%	Act%
127.00	100	100
129.00	33.20	32.88
65.00	29.50	30.11
92.00	18.50	18.36

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other _____

initials JK date 12-26-13

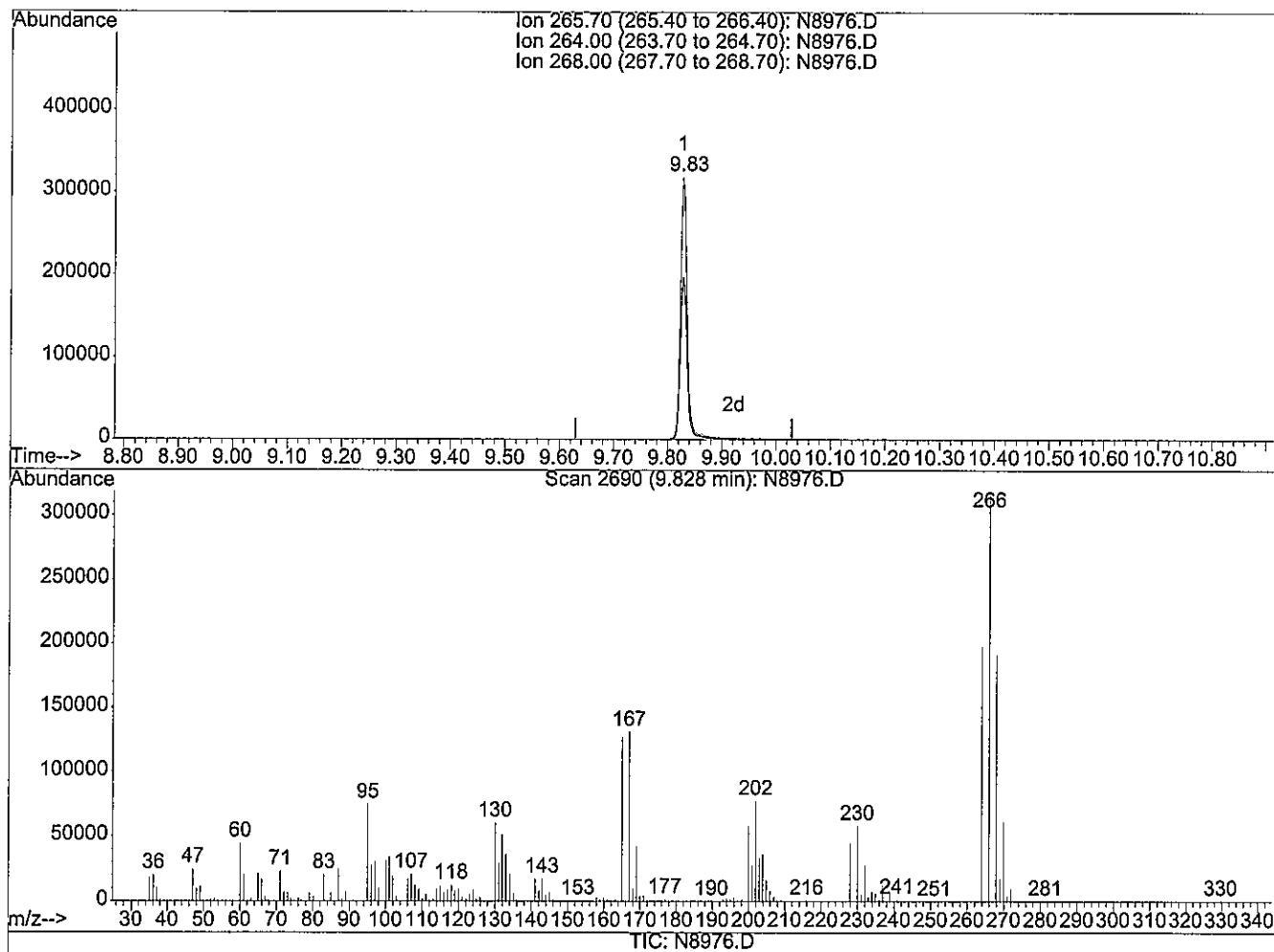
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:20 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 50.31ng/uL

response 280279

Ion	Exp%	Act%
265.70	100	100
264.00	62.70	63.31
268.00	63.40	62.70
0.00	0.00	0.00

3e for

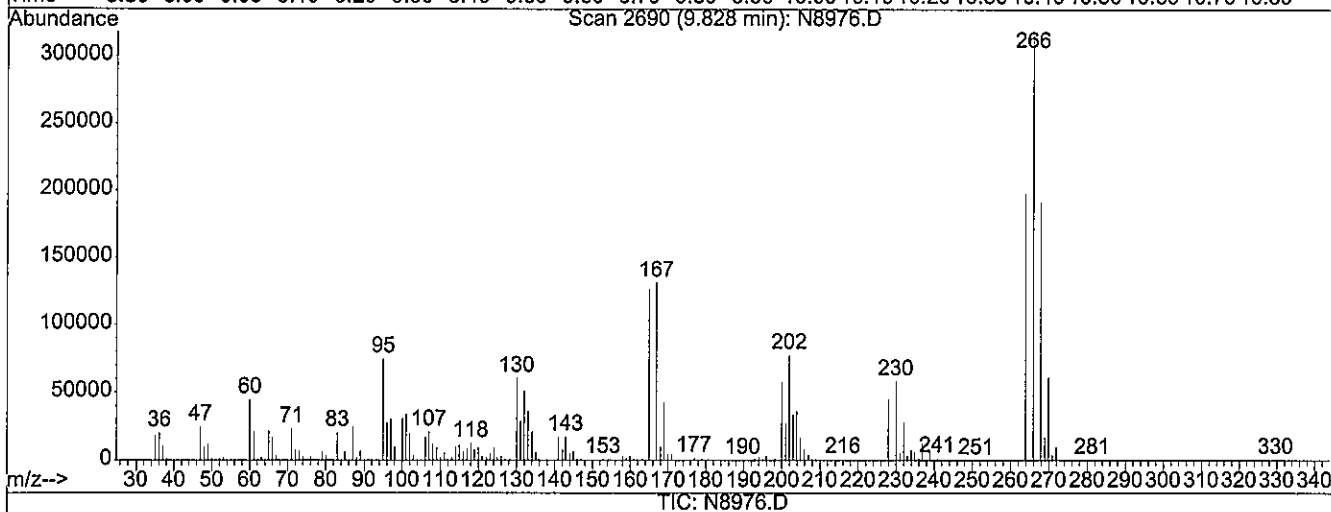
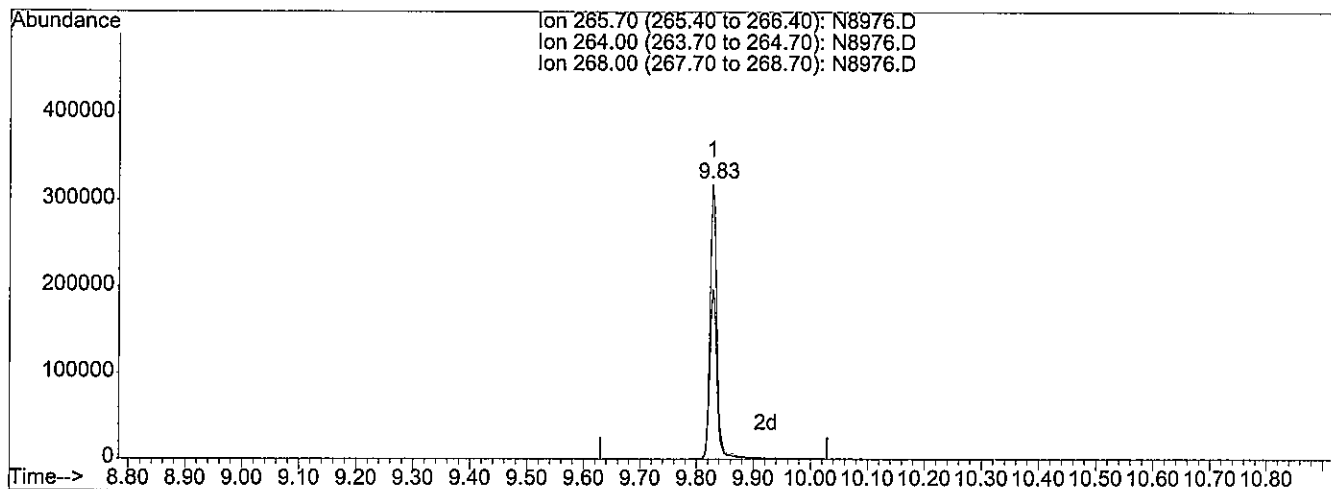
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\122313\N8976.D
 Acq On : 23 Dec 2013 19:24
 Sample : EX131216-8LCSD
 Misc : WATER EX131216-8
 MS Integration Params: RTEINT.P
 Quant Time: Dec 26 12:20 2013

Vial: 20
 Operator: jk SOP 50
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\122313S1.M (RTE Integrator)
 Title : GC-MS Semivolatiles SOP no. 506
 Last Update : Mon Dec 23 16:21:25 2013
 Response via : Multiple Level Calibration



(74) Pentachlorophenol (TMC)

9.83min 52.06ng/uL m

response 290038

Ion	Exp%	Act%
265.70	100	100
264.00	62.70	61.18
268.00	63.40	60.59
0.00	0.00	0.00

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other _____

initials jd date 12-26-13



Miscellaneous

SEMIVOLATILES EXTRACTION / CLEANUP WORKSHEET

WO #s 131256		Matrix 45		Batch ID 131317 14-8		Sur Code 513121-1		MSpike Code 513121-1		Balance ID 11A		Extr SOP/Rev 11/11		Extr Code 8270D	
EXTRACTION METHOD				Steam Bath: 40°C Proper N-Evap Station flow settings used? (X)				CLEANUP CODE:				Reviewed By: 12/18/13			
(3520C) CLE				(3510) SEP				(3650B) Florisil				(3640A) GPC (see other forms)			
(3550) JSONC				(3540) SOX				Hexane: N/A				Cleanup SOP/Rev: N/A			
(3580A) Waste Dilution								Acetone: N/A				Date/Time: N/A			
(3546) Microwave extraction								Florisil				Date/Time: N/A			
(form 609-16.doc)								Initials: X				Initials: N/A			
Sample No.	Amount (g/mL)	Initial pH	pH (11-13)	pH (≤2)	Surrogate (mL)	Matrix Spike (mL)	Sur / Matrix Spike Witnessed	Date KD (Initial)	Cleanup Date	Date KD (Final)	Final Volume (mL)	Date Viald	Comments		
WMB	1000	5	12.8	1.3	1.0 mL	N/A	X	12/18/13	N/A	N/A	1.0 mL	12/18/13	X STB0530-4 (410) 0.2 mL		
1312158-1	1000	6	12.8	1.3	1.0 mL	1.0 mL							X STB1312-02-1 (410) 0.1 mL		
WLS	1000	5	12.8	1.3	1.0 mL	1.0 mL							Not enough sample for plan 100		
WLS1	1000	5	12.8	1.3	1.0 mL	1.0 mL							for portion MS/MS		
WLS	1000	5	12.8	1.3	1.0 mL	1.0 mL									