DATA PACKAGE FOR

SEMI-VOLATILE ORGANICS

PROJECT NAME : CONNECTICUT SUPERFUND SITE

DEWBERRY

600 Parsippany Road
3rd Floor
Parsippany , NJ - 07054-3715
Phone No: 9737399400

CHEMTECH PROJECT N **Z4920**
ATTENTION: **Corey Nachshen**

Table of Contents for z4920(semivolatile data)

SEMI-VOLATILE DATA 7

SEMI-VOLATILE QC DATA..... 8

SEMI-VOLATILE SAMPLE DATA 31

SEMI-VOLATILE CALIBRATION DATA 305

SEMI-VOLATILE RAW QC DATA 407

SEMI-VOLATILE MISCELLANEOUSDATA 501

SHIPPING AND RECEIVING DOCUMENTATION 535

END OF ANALYTICAL RESULTS.....541

CASE NARRATIVE

Dewberry
Project Name: Connecticut Superfund Site
Project # N/A
Chemtech Project # Z4920

A. Number of Samples and Date of Receipt:
12 Solid samples were received on 10/9/08.
3 Water samples were received on 10/9/08.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Mercury, PCB Group1, PESTICIDE Group1, SVOCMS Group1, TAL ICP Metals, TAL Metals, and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA A using GC Column RTX-5 SILMS which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 12739-125.
The analysis of SVOCMS Group1 was based on method SOM01.2.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for RB-1, SBLK01, SBLK02RE, SBLK03, SBLK03RE, AOC3-1B, AOC2-3, AOC5-3 and AOC5-1.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis indicated presence of 4-Chloro-3-methylphenol (43ug/Kg) in file PB37183B due to possible lab contamination.
The Tuning criteria met requirements.

E. Additional Comments:
The Calibration File ID BA041319.D met the requirements except for 2,4-Dinitrophenol.
The Calibration File ID BA041323.D met the requirements except for 4-Nitroaniline.
The Initial Calibration dated 10/19/08 met the requirements except for Di-n-octylphthalate , Benzo(b)fluoranthene and Indeno(1,2,3-cd)pyrene .

The % RSD of Di-n-octylphthalate(28.7), Benzo(b)fluoranthene (23.4) and Indeno(1,2,3-cd)pyrene (25.5)

As per method, the %RSD for four compounds allowed failing. No further action required.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature____ Mildred V Reyes

Mildred V. Reyes
I am approving this document
2008.10.31 13:17:32 -04'00'

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : Z4920

Project ID : Connecticut Superfund Site

Customer Name : Dewberry

Lab Sample Number	Customer Sample Number
Z4920-01	RB-1
Z4920-02	TB-1
Z4920-03	AOC2-1
Z4920-04	AOC2-2
Z4920-05	AOC2-3
Z4920-06	AOC5-1
Z4920-07	AOC5-2
Z4920-08	AOC5-3
Z4920-09	Z4920-08MS
Z4920-10	Z4920-08MSD
Z4920-11	DUP
Z4920-12	AOC3-1A
Z4920-13	AOC3-1B
Z4920-14	VHBLK
Z4920-15	VHBLK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
2008.10.31 13:17:55 -04'00'

NYDOH CERTIFICATION NO.11376

NJDEP CERTIFICATION NO.20012

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

CHEMTECH

SEMI-VOLATILE

DATA

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SEMI-VOLATILE QC DATA

2G - FORM II SV-1
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLK01	42	40	42	45	44	40	40	38
02	RB-1	30 *	81	76	62	74	79	66	1
03	SBLK02RE	43	41	43	45	43	46	38	37

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(39-106)
SDMC2 (BCE) = Bis(2-Chloroethyl)ether-d8	(40-105)
SDMC3 (2CP) = 2-Chlorophenol-d4	(41-106)
SDMC4 (4MP) = 4-Methylphenol-d8	(25-111)
SDMC5 (NBZ) = Nitrobenzene-d5	(43-108)
SDMC6 (2NP) = 2-Nitrophenol-d4	(40-108)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(37-105)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted Out

2H - FORM II SV-2
WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	SBLK01	45 *	44	55	44	46	52	91	62	1
02	RB-1	87	77	36	83	87	86	94	81	1
03	SBLK02RE	44 *	43	54	44	45	50	93	67	1

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(47-114)
SDMC10 (ACY) = Acenaphthylene-d8	(41-107)
SDMC11 (4NP) = 4-Nitrophenol-d4	(33-116)
SDMC12 (FLR) = Fluorene-d10	(42-111)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(22-104)
SDMC14 (ANC) = Anthracene-d10	(44-110)
SDMC15 (PYR) = Pyrene-d10	(52-119)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(32-121)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted Out

2J - FORM II SV-3
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLK03	53	52	52	60	52	53	50	42
02	AOC3-1B	78	78	82	79	81	78	68	63
03	AOC2-3	87	94	88	53	88	89	79	41
04	AOC5-2	85	91	88	61	92	88	79	23
05	AOC3-1A	81	94	84	39	84	82	71	17
06	AOC2-1	79	89	83	19	88	83	62	18
07	AOC5-3	63	69	68	42	70	70	65	35
08	AOC2-2	68	84	77	16	82	80	64	8
09	DUP	69	85	78	19	84	86	66	0 *
10	AOC5-3MS	69	69	66	61	80	78	77	34
11	AOC5-3DMSD	66	72	69	61	69	72	77	45
12	SBLK03RE	48	50	50	57	50	48	47	49
13	AOC5-1	75	94	79	29	101	95	58	0 *

	QC LIMITS
SDMC1 (PHL) = Phenol-d5	(17-103)
SDMC2 (BCE) = Bis(2-Chloroethyl)ether-d8	(12-98)
SDMC3 (2CP) = 2-Chlorophenol-d4	(13-101)
SDMC4 (4MP) = 4-Methylphenol-d8	(8-100)
SDMC5 (NBZ) = Nitrobenzene-d5	(16-103)
SDMC6 (2NP) = 2-Nitrophenol-d4	(16-104)
SDMC7 (DCP) = 2,4-Dichlorophenol-d3	(23-104)
SDMC8 (4CA) = 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted Out

2K - FORM II SV-4
SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	SBLK03	59	56	86	58	63	64	130 *	93	1
02	AOC3-1B	86	82	87	83	70	79	131 *	83	1
03	AOC2-3	89	87	98	88	80	80	122 *	81	1
04	AOC5-2	93	89	92	87	88	69	87	62	0
05	AOC3-1A	85	74	81	72	79	53	68	46	0
06	AOC2-1	93	80	92	82	83	64	79	51	0
07	AOC5-3	74	64	79	60	67	54	60	38 *	1
08	AOC2-2	87	83	89	87	81	69	91	67	0
09	DUP	90	74	83	85	82	73	92	65	1
10	AOC5-3MS	81	72	89	76	52	74	96	70	0
11	AOC5-3DMSD	75	72	77	74	36	52	92	68	0
12	SBLK03RE	60	56	84	56	49	63	136 *	91	1
13	AOC5-1	108	99 *	104	110 *	79	95	164 *	83	4

	QC LIMITS
SDMC9 (DMP) = Dimethylphthalate-d6	(43-111)
SDMC10 (ACY) = Acenaphthylene-d8	(20-97)
SDMC11 (4NP) = 4-Nitrophenol-d4	(16-166)
SDMC12 (FLR) = Fluorene-d10	(40-108)
SDMC13 (NMP) = 4,6-Dinitro-2-methylphenol-d2	(1-121)
SDMC14 (ANC) = Anthracene-d10	(22-98)
SDMC15 (PYR) = Pyrene-d10	(51-120)
SDMC16 (BAP) = Benzo(a)pyrene-d12	(43-111)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D DMC diluted Out

3D - FORM III SV-2

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix Spike - EPA Sample No: AOC5-3 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC#	QC LIMI REC
Phenol	1700	39	1200	68	(26-90)
2-Chlorophenol	1700	0	1100	65	(25-102
N-Nitroso-di-n-propyla	1700	0	1300	76	(41-126
4-Chloro-3-methylpheno	1700	0	1500	88	(26-103
Acenaphthene	1700	41	1300	74	(31-137
4-Nitrophenol	1700	0	1400	82	(11-114
2,4-Dinitrotoluene	1700	0	1400	82	(28-89)
Pentachlorophenol	1700	0	1500	88	(17-109
Pyrene	1700	380	2100	101	(35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	MSD % RPD #	QC LIMITS RPD	QC LIMITS REC
Phenol	1700	1200	68	0	35	(26-90)
2-Chlorophenol	1700	1100	65	0	50	(25-102
N-Nitroso-di-n-propyla	1700	1200	71	7	38	(41-126
4-Chloro-3-methylpheno	1700	1300	76	15	33	(26-103
Acenaphthene	1700	1100	62	18	19	(31-137
4-Nitrophenol	1700	1100	65	23	50	(11-114
2,4-Dinitrotoluene	1700	1200	71	14	47	(28-89)
Pentachlorophenol	1700	1200	71	21	47	(17-109
Pyrene	1700	1600	72	34	36	(35-142

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits

Spike Recovery: 0 out of 18 outside limits

Comments:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG NO.: Z4920

Lab File ID: BA041294.D Lab Sample ID: PB37177B

Instrument ID: BNAA Date Extracted: 10/13/2008

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 10/19/2008

Level: (LOW/MED) LOW Time Analyzed: 17:57

Extraction: (Type) SEPF GPC Cleanup: (Y/N): N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	RB-1	Z4920-01	BA041295.D	10/19/2008

COMMENTS:

4C - FORM IV SV
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK03

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG NO.: Z4920

Lab File ID: BA041306.D Lab Sample ID: PB37183B

Instrument ID: BNAA Date Extracted: 10/13/2008

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 10/20/2008

Level: (LOW/MED) LOW Time Analyzed: 02:13

Extraction: (Type) SOXH GPC Cleanup: (Y/N): Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AOC3-1B	Z4920-13	BA041307.D	10/20/2008
02	AOC2-3	Z4920-05	BA041308.D	10/20/2008
03	AOC5-2	Z4920-07	BA041309.D	10/20/2008
04	AOC3-1A	Z4920-12	BA041310.D	10/20/2008
05	AOC2-1	Z4920-03	BA041311.D	10/20/2008
06	AOC5-3	Z4920-08	BA041312.D	10/20/2008
07	AOC2-2	Z4920-04	BA041313.D	10/20/2008
08	DUP	Z4920-11	BA041314.D	10/20/2008
09	AOC5-3MS	Z4920-09MS	BA041316.D	10/20/2008
10	AOC5-3DMSD	Z4920-10MSD	BA041317.D	10/20/2008
11	AOC5-1	Z4920-06	BA041326.D	10/20/2008

COMMENTS:

EPA SAMPLE NO.

DFTPPBA0013

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG NO.: Z4920

Lab File ID: BA041288.D DFTPP Injection Date: 10/19/2008

Instrument ID: BNAA DFTPP Injection Time: 13:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	50.3
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	56.5
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	39.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	16.0
365	Greater than 1.0% of mass 198	1.3
441	Present, but less than mass 443	6.9
442	50.0 - 100% of mass 198	50.1
443	15.0 - 24.0% of mass 442	9.5 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ICC0020BA0048	ICC0020BA0048	BA041289.D	10/19/2008	14:01
02	ICC0005BA0049	ICC0005BA0049	BA041290.D	10/19/2008	15:12
03	ICC0010BA0050	ICC0010BA0050	BA041291.D	10/19/2008	15:53
04	ICC0040BA0051	ICC0040BA0051	BA041292.D	10/19/2008	16:35
05	ICC0080BA0052	ICC0080BA0052	BA041293.D	10/19/2008	17:16
06	SBLK01	PB37177B	BA041294.D	10/19/2008	17:57
07	RB-1	Z4920-01	BA041295.D	10/19/2008	18:39
08	SBLK02RE	PB37177BRE	BA041301.D	10/19/2008	22:46
09	CCC0020BA0053	CCC0020BA0053	BA041302.D	10/19/2008	23:28

EPA SAMPLE NO.

DFTPPBA0014

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG NO.: Z4920

Lab File ID: BA041304.D DFTPP Injection Date: 10/20/2008

Instrument ID: BNAA DFTPP Injection Time: 00:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.3
68	Less than 2.0% of mass 69	0.4 (0.7) 1
69	Mass 69 relative abundance	59.5
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	43.2
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	18.2
365	Greater than 1.0% of mass 198	1.8
441	Present, but less than mass 443	7.1
442	50.0 - 100% of mass 198	51.7
443	15.0 - 24.0% of mass 442	9.6 (18.6) 2

1-Value is % mass 69 2-Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCC0020BA0055	CCC0020BA0055	BA041305.D	10/20/2008	01:32
02	SBLK03	PB37183B	BA041306.D	10/20/2008	02:13
03	AOC3-1B	Z4920-13	BA041307.D	10/20/2008	02:55
04	AOC2-3	Z4920-05	BA041308.D	10/20/2008	03:36
05	AOC5-2	Z4920-07	BA041309.D	10/20/2008	04:17
06	AOC3-1A	Z4920-12	BA041310.D	10/20/2008	04:58
07	AOC2-1	Z4920-03	BA041311.D	10/20/2008	05:39
08	AOC5-3	Z4920-08	BA041312.D	10/20/2008	06:20
09	AOC2-2	Z4920-04	BA041313.D	10/20/2008	07:01
10	DUP	Z4920-11	BA041314.D	10/20/2008	07:41
11	AOC5-3MS	Z4920-09MS	BA041316.D	10/20/2008	09:03
12	AOC5-3DMSD	Z4920-10MSD	BA041317.D	10/20/2008	09:44
13	CCC0020BA0057	CCC0020BA0057	BA041319.D	10/20/2008	11:07

EPA SAMPLE NO.

DFTPPBA0017

5B - FORM V SV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG NO.: Z4920

Lab File ID: BA041322.D DFTPP Injection Date: 10/20/2008

Instrument ID: BNAA DFTPP Injection Time: 14:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	55.0
68	Less than 2.0% of mass 69	0.3 (0.6) 1
69	Mass 69 relative abundance	59.3
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	10.0 - 80.0% of mass 198	42.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 60.0% of mass 198	20.6
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	8.6
442	50.0 - 100% of mass 198	56.6
443	15.0 - 24.0% of mass 442	11.4(20.2) 2

1-Value is % mass 69 2-Value is % mass 442

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCC0020BA0058	CCC0020BA0058	BA041323.D	10/20/2008	15:18
02	SBLK03RE	PB37183BRE	BA041325.D	10/20/2008	16:42
03	AOC5-1	Z4920-06	BA041326.D	10/20/2008	17:23
04	CCC0020BA0059	CCC0020BA0059	BA041337.D	10/21/2008	01:01

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0053 Date Analyzed: 10/19/2008

Lab File ID (Standard): BA041302.D Time Analyzed: 23:28

Instrument ID: BNAA

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	228931	6.69	688669	9.09	475481	12.67
UPPER LIMIT	457862	7.19	1377338	9.59	950962	13.17
LOWER LIMIT	114466	6.19	344335	8.59	237741	12.17
EPA SAMPLE NO.						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0055 Date Analyzed: 10/20/2008

Lab File ID (Standard): BA041305.D Time Analyzed: 01:32

Instrument ID: BNAA

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	187027	6.69	604564	9.09	407082	12.67
	UPPER LIMIT	374054	7.19	1209128	9.59	814164	13.17
	LOWER LIMIT	93514	6.19	302282	8.59	203541	12.17
	EPA SAMPLE NO.						
01	SBLK03	245180	6.69	797888	9.08	543187	12.68
02	AOC3-1B	229295	6.69	752441	9.08	517785	12.67
03	AOC2-3	265457	6.69	844893	9.08	624430	12.68
04	AOC5-2	264556	6.70	858916	9.08	607944	12.68
05	AOC3-1A	219603	6.69	761215	9.09	550269	12.68
06	AOC2-1	234443	6.69	809158	9.09	570540	12.68
07	AOC5-3	224293	6.70	741736	9.08	522243	12.68
08	AOC2-2	239628	6.69	809137	9.09	554709	12.68
09	DUP	240870	6.69	786977	9.10	570183	12.68
10	AOC5-3MS	251725	6.70	760404	9.09	587542	12.68
11	AOC5-3DMSD	211476	6.70	676777	9.09	524768	12.68

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0057 Date Analyzed: 10/20/2008

Lab File ID (Standard): BA041319.D Time Analyzed: 11:07

Instrument ID: BNAA

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	214770	6.69	673825	9.09	513815	12.68
UPPER LIMIT	429540	7.19	1347650	9.59	1027630	13.18
LOWER LIMIT	107385	6.19	336913	8.59	256908	12.18
EPA SAMPLE NO.						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0058 Date Analyzed: 10/20/2008

Lab File ID (Standard): BA041323.D Time Analyzed: 15:18

Instrument ID: BNAA

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	185060	6.68	583337	9.07	404056	12.66
	UPPER LIMIT	370120	7.18	1166674	9.57	808112	13.16
	LOWER LIMIT	92530	6.18	291669	8.57	202028	12.16
	EPA SAMPLE NO.						
01	SBLK03RE	177740	6.68	599589	9.08	426701	12.66
02	AOC5-1	221053	6.68	722536	9.07	501633	12.66

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): CCC0020BA0059 Date Analyzed: 10/21/2008

Lab File ID (Standard): BA041337.D Time Analyzed: 01:01

Instrument ID: BNAA

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	204952	6.68	696443	9.08	474813	12.67
UPPER LIMIT	409904	7.18	1392886	9.58	949626	13.17
LOWER LIMIT	102476	6.18	348222	8.58	237407	12.17
EPA SAMPLE NO.						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

GC Column: RTX-5 SILMS ID: 0.32 (mm) Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##): ICC0020BA0048 Date Analyzed: 10/19/2008

Lab File ID (Standard): BA041289.D Time Analyzed: 14:01

Instrument ID: BNAA

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	165870	6.68	545763	9.08	400296	12.67
	UPPER LIMIT	331740	7.18	1091526	9.58	800592	13.17
	LOWER LIMIT	82935	6.18	272882	8.58	200148	12.17
	EPA SAMPLE NO.						
01	SBLK01	227354	6.68	729640	9.07	517476	12.66
02	RB-1	227962	6.68	755039	9.07	516418	12.66
03	SBLK02RE	221866	6.68	716685	9.07	507672	12.66

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

EPA Sample No. (SSTD020##): CCC0020BA0053 Date Analyzed: 10/19/2008

Lab File ID (Standard): BA041302.D Time Analyzed: 23:28

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	828346	15.76	953051	21.29	790075	25.10
UPPER LIMIT	1656692	16.26	1906102	21.79	1580150	25.60
LOWER LIMIT	414173	15.26	476526	20.79	395038	24.60
EPA SAMPLE NO.						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

EPA Sample No. (SSTD020##): CCC0020BA0055 Date Analyzed: 10/20/2008

Lab File ID (Standard): BA041305.D Time Analyzed: 01:32

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	739036	15.76	878586	21.31	745929	25.09
	UPPER LIMIT	1478072	16.26	1757172	21.81	1491858	25.59
	LOWER LIMIT	369518	15.26	439293	20.81	372965	24.59
	EPA SAMPLE NO.						
01	SBLK03	976393	15.76	699538	21.32	654843	25.18
02	AOC3-1B	890433	15.76	654195	21.31	596219	25.16
03	AOC2-3	1065355	15.77	789774	21.32	661461	25.16
04	AOC5-2	977815	15.77	783147	21.31	585624	25.15
05	AOC3-1A	912754	15.77	687194	21.31	498683	25.14
06	AOC2-1	982684	15.77	727827	21.32	569914	25.15
07	AOC5-3	904601	15.77	673562	21.31	510516	25.14
08	AOC2-2	862614	15.77	690392	21.32	416778	25.15
09	DUP	858297	15.78	697270	21.32	422698	25.14
10	AOC5-3MS	996731	15.77	729437	21.31	430201	25.13
11	AOC5-3DMSD	862007	15.77	606411	21.31	378174	25.11

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

EPA Sample No. (SSTD020##): CCC0020BA0057 Date Analyzed: 10/20/2008

Lab File ID (Standard): BA041319.D Time Analyzed: 11:07

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	860515	15.77	972917	21.31	600393	25.11
UPPER LIMIT	1721030	16.27	1945834	21.81	1200786	25.61
LOWER LIMIT	430258	15.27	486459	20.81	300197	24.61
EPA SAMPLE NO.						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

EPA Sample No. (SSTD020##): CCC0020BA0058 Date Analyzed: 10/20/2008

Lab File ID (Standard): BA041323.D Time Analyzed: 15:18

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	791573	15.75	920652	21.30	786196	25.09
	UPPER LIMIT	1583146	16.25	1841304	21.80	1572392	25.59
	LOWER LIMIT	395787	15.25	460326	20.80	393098	24.59
	EPA SAMPLE NO.						
01	SBLK03RE	766527	15.74	582119	21.29	496271	25.08
02	AOC5-1	919611	15.74	683524	21.28	478248	25.07

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

EPA Sample No. (SSTD020##): CCC0020BA0059 Date Analyzed: 10/21/2008

Lab File ID (Standard): BA041337.D Time Analyzed: 01:01

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	863100	15.76	1004503	21.30	869667	25.08
UPPER LIMIT	1726200	16.26	2009006	21.80	1739334	25.58
LOWER LIMIT	431550	15.26	502252	20.80	434834	24.58
EPA SAMPLE NO.						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

EPA Sample No. (SSTD020##): ICC0020BA0048 Date Analyzed: 10/19/2008

Lab File ID (Standard): BA041289.D Time Analyzed: 14:01

Instrument ID: BNAA GC Column: RTX-5 SILMS ID: 0.32 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	734942	15.76	863637	21.29	688065	25.07
	UPPER LIMIT	1469884	16.26	1727274	21.79	1376130	25.57
	LOWER LIMIT	367471	15.26	431819	20.79	344033	24.57
	EPA SAMPLE NO.						
01	SBLK01	885473	15.74	677859	21.27	637460	25.06
02	RB-1	915494	15.74	1039406	21.27	924186	25.05
03	SBLK02RE	873890	15.75	645097	21.29	610468	25.08

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT UPPER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

CHEMTECH

SEMI-VOLATILE SAMPLE DATA

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB-1

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4920-01

Sample wt/vol: 980 (g/mL) mL Lab File ID: BA041295.D

Level: (LOW/MED) Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.1	U
108-95-2	Phenol	5.1	U
111-44-4	Bis(2-chloroethyl)ether	5.1	U
95-57-8	2-Chlorophenol	5.1	U
95-48-7	2-Methylphenol	5.1	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.1	U
98-86-2	Acetophenone	0.54	J
106-44-5	4-Methylphenol	5.1	U
621-64-7	N-Nitroso-di-n-propylamine	5.1	U
67-72-1	Hexachloroethane	5.1	U
98-95-3	Nitrobenzene	5.1	U
78-59-1	Isophorone	5.1	U
88-75-5	2-Nitrophenol	5.1	U
105-67-9	2,4-Dimethylphenol	5.1	U
111-91-1	Bis(2-chloroethoxy)methane	5.1	U
120-83-2	2,4-Dichlorophenol	5.1	U
91-20-3	Naphthalene	5.1	U
106-47-8	4-Chloroaniline	5.1	U
87-68-3	Hexachlorobutadiene	5.1	U
105-60-2	Caprolactam	5.1	U
59-50-7	4-Chloro-3-methylphenol	5.1	U
91-57-6	2-Methylnaphthalene	5.1	U
77-47-4	Hexachlorocyclopentadiene	5.1	U
88-06-2	2,4,6-Trichlorophenol	5.1	U
95-95-4	2,4,5-Trichlorophenol	5.1	U
92-52-4	1,1'-Biphenyl	5.1	U
91-58-7	2-Chloronaphthalene	5.1	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.1	U
606-20-2	2,6-Dinitrotoluene	5.1	U
208-96-8	Acenaphthylene	5.1	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.1	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB-1

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: Z4920-01

Sample wt/vol: 980 (g/mL) mL Lab File ID: BA041295.D

Level: (LOW/MED) Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5.1	U
121-14-2	2,4-Dinitrotoluene	5.1	U
84-66-2	Diethylphthalate	5.1	U
86-73-7	Fluorene	5.1	U
7005-72-3	4-Chlorophenyl-phenylether	5.1	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine[1]	5.1	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.1	U
101-55-3	4-Bromophenyl-phenylether	5.1	U
118-74-1	Hexachlorobenzene	5.1	U
1912-24-9	Atrazine	5.1	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.1	U
120-12-7	Anthracene	5.1	U
86-74-8	Carbazole	5.1	U
84-74-2	Di-n-butylphthalate	5.1	U
206-44-0	Fluoranthene	5.1	U
129-00-0	Pyrene	5.1	U
85-68-7	Butylbenzylphthalate	5.1	U
91-94-1	3,3'-Dichlorobenzidine	5.1	U
56-55-3	Benzo(a)anthracene	5.1	U
218-01-9	Chrysene	5.1	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.1	U
117-84-0	Di-n-octylphthalate	5.1	U
205-99-2	Benzo(b)fluoranthene	5.1	U
207-08-9	Benzo(k)fluoranthene	5.1	U
50-32-8	Benzo(a)pyrene	5.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.1	U
53-70-3	Dibenzo(a,h)anthracene	5.1	U
191-24-2	Benzo(g,h,i)perylene	5.1	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.1	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RB-1

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: Z4920-01

Sample wt/vol: 980 (g/mL) mL Lab File ID: BA041295.D

Level: (TRACE or LOW/MED) Extraction: (Type) CONT

% Moisture: Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

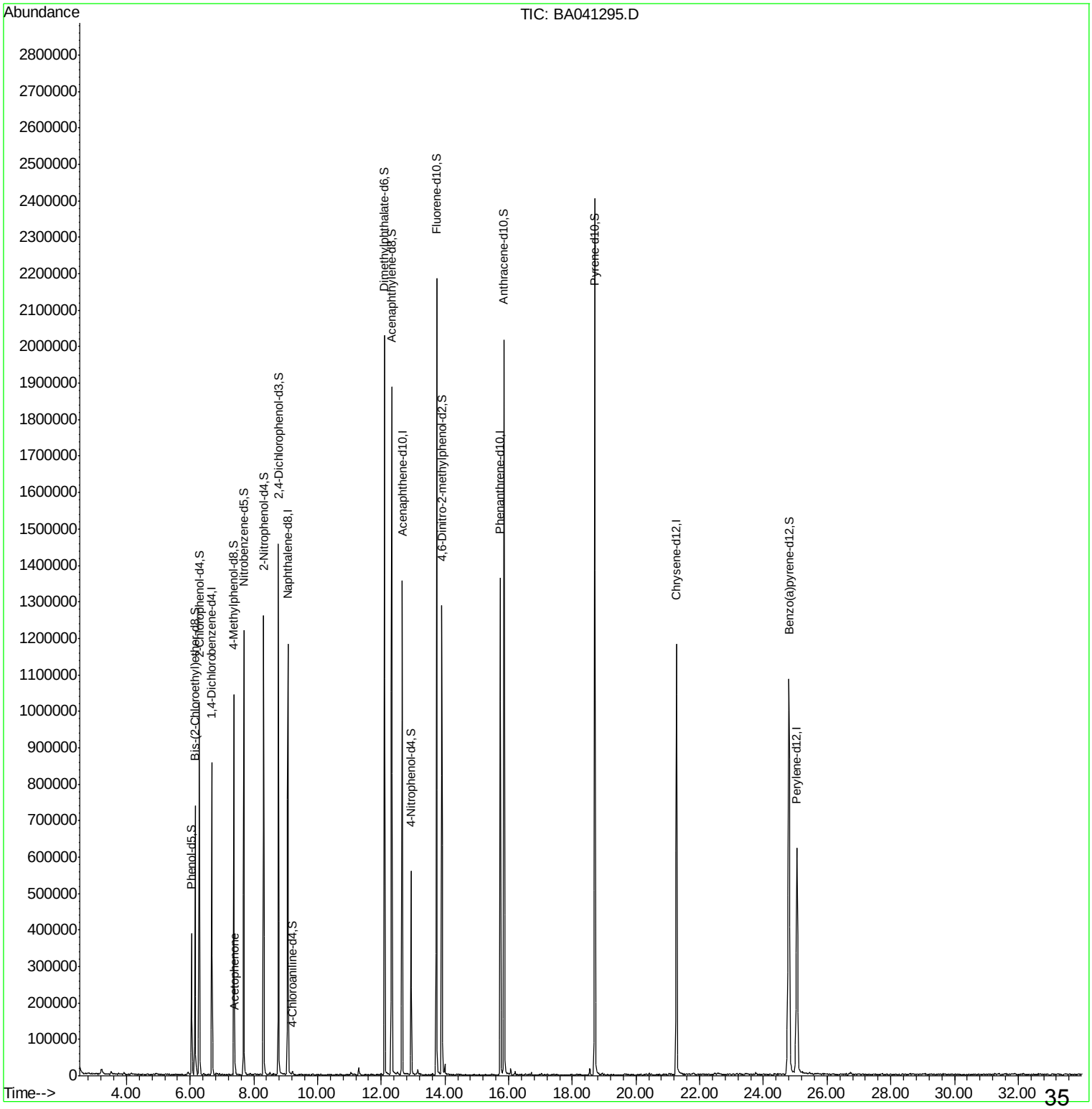
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	1719-06-8	Anthracene-D10-	15.86	34	JN
02.					
03.					
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.	[2] E966796	Total Alkanes	N/A		J

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

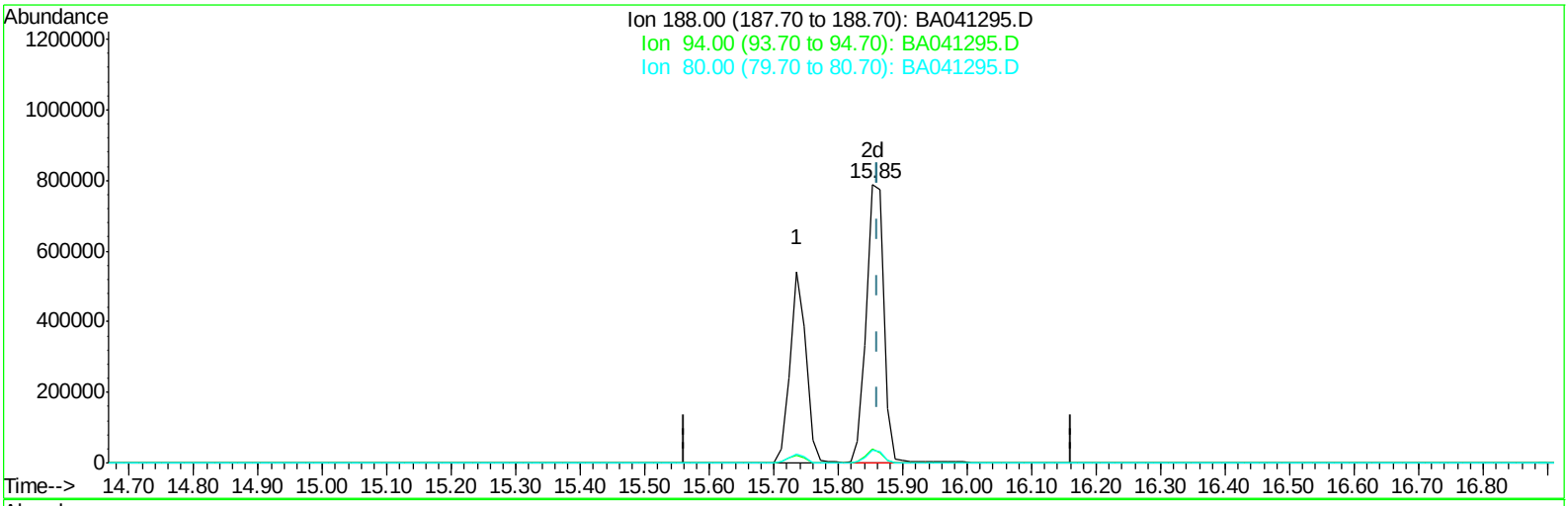
Quant Time: Oct 20 12:05:45 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

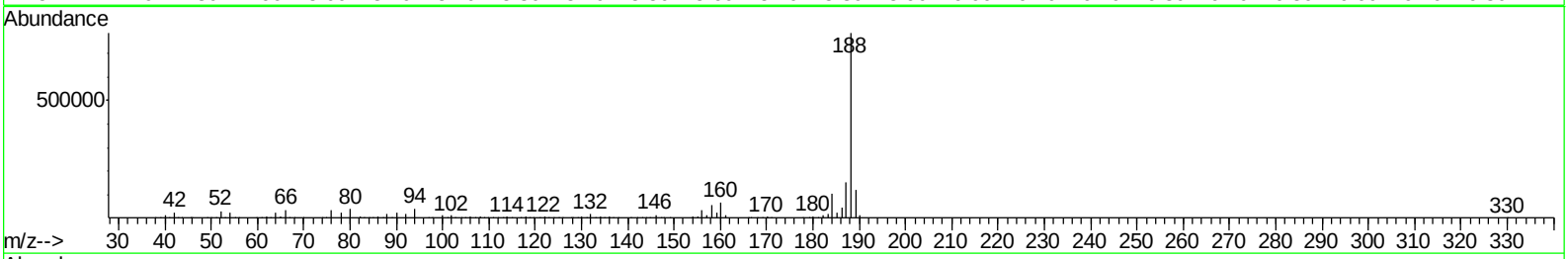


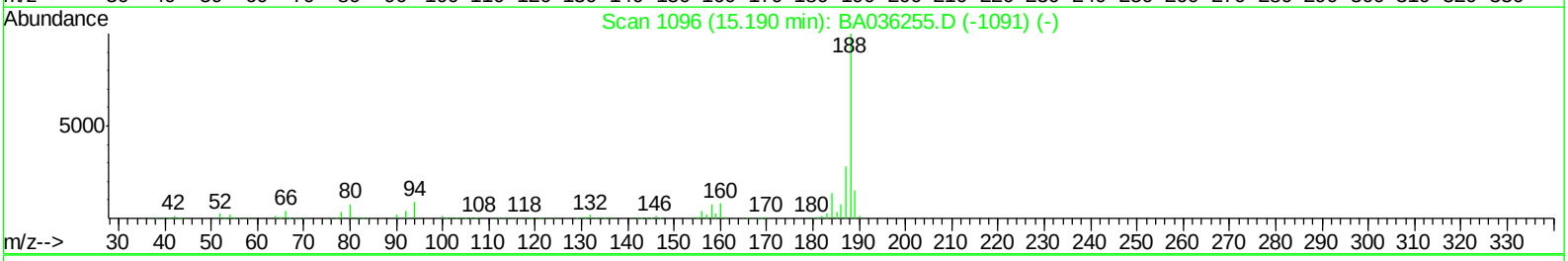
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 12:03:10 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041295.D

(68) Anthracene-d10 (S)

15.853min (-0.009) 34.43ng/ul m

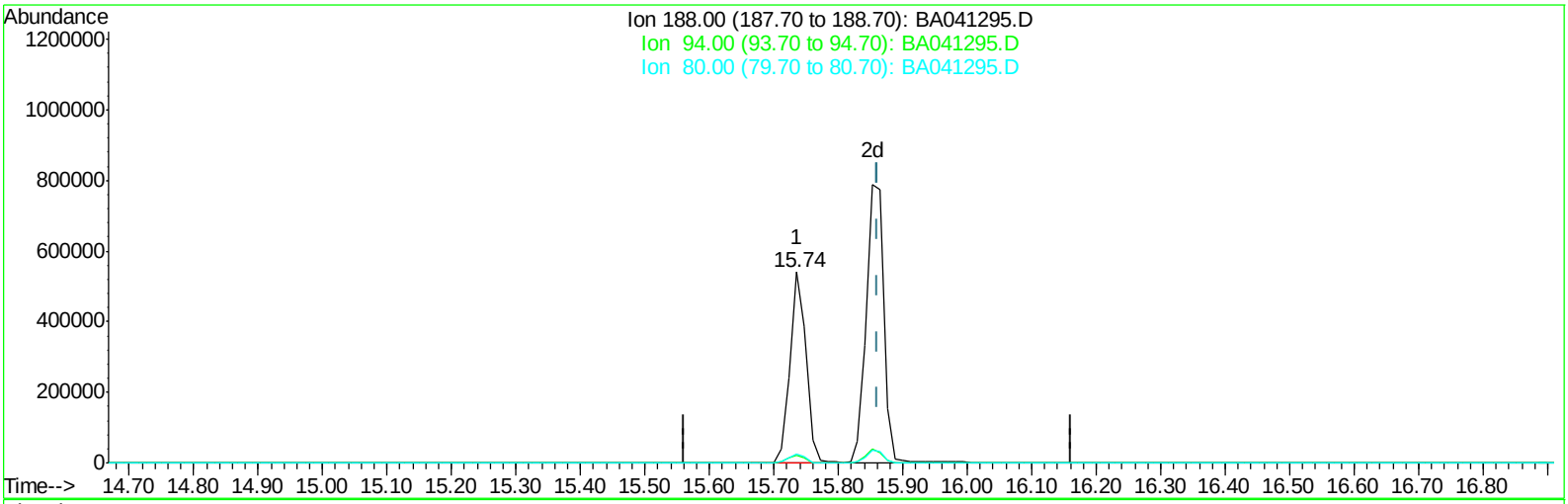
response 1508802

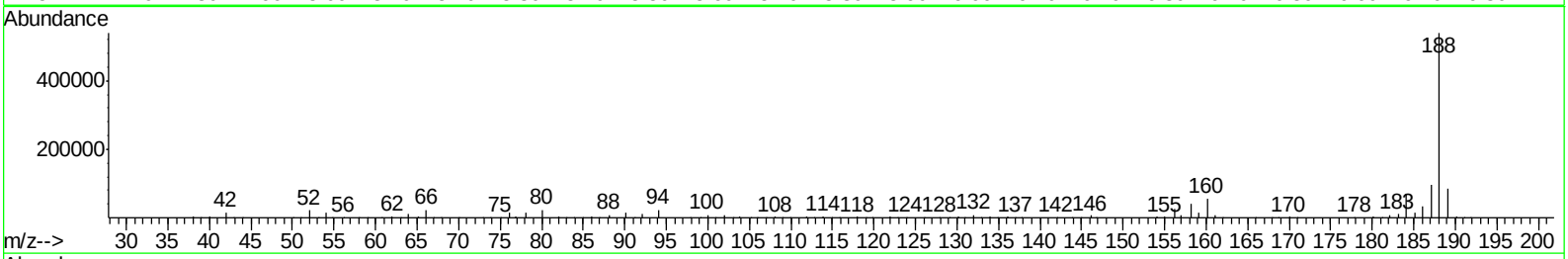
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.89#
80.00	4.20	4.68
0.00	0.00	0.00

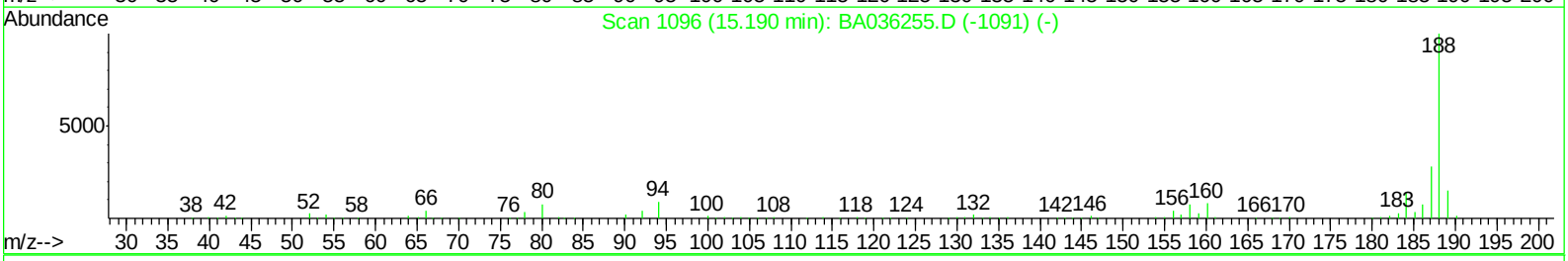
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 12:03:10 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







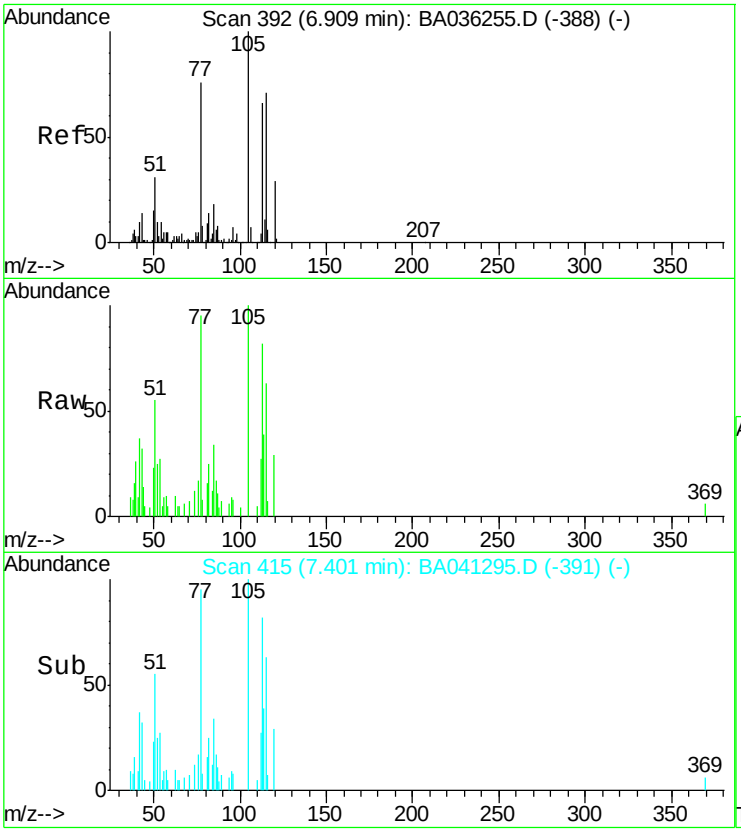
TIC: BA041295.D

(68) Anthracene-d10 (S)

15.736min (-0.126) 20.89ng/ul

response 915494

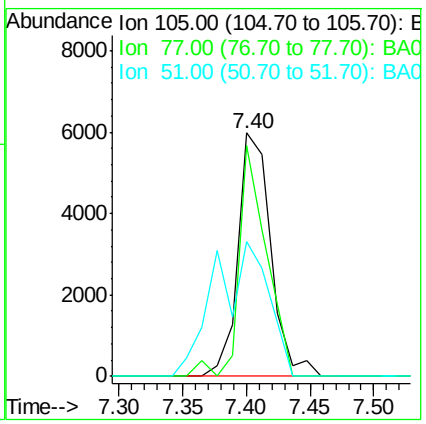
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.25
80.00	4.20	4.43
0.00	0.00	0.00



#12
Acetophenone
Concen: 0.58 ng/ul
RT: 7.40 min Scan# 415
Delta R.T. -0.02 min
Lab File: BA041295.D
Acq: 19 Oct 2008 18:39

Tgt Ion:105 Resp: 10658

Ion	Ratio	Lower	Upper
105	100		
77	95.0	69.4	104.2
51	55.5	42.1	63.1



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 12:05:45 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	227962	20.00	ng/ul	0.00
16) Naphthalene-d8	9.07	136	755039	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.66	164	516418	20.00	ng/ul	-0.01
59) Phenanthrene-d10	15.74	188	915494	20.00	ng/ul	-0.02
73) Chrysene-d12	21.27	240	1039406	20.00	ng/ul	-0.02
81) Perylene-d12	25.05	264	924186	20.00	ng/ul	-0.02
System Monitoring Compounds						
3) Phenol-d5	6.05	99	166861	12.09	ng/ul	-0.01
5) Bis-(2-Chloroethyl)ether-d	6.15	67	301619	32.23	ng/ul	0.00
7) 2-Chlorophenol-d4	6.28	132	358851	30.59	ng/ul	-0.01
11) 4-Methylphenol-d8	7.38	113	234026	24.99	ng/ul	-0.01
17) Nitrobenzene-d5	7.68	128	198155	29.64	ng/ul	-0.01
20) 2-Nitrophenol-d4	8.31	143	259197	31.50	ng/ul	-0.01
24) 2,4-Dichlorophenol-d3	8.78	165	403458	26.50	ng/ul	-0.01
27) 4-Chloroaniline-d4	9.21	131	3907	0.26	ng/ul	-0.01
41) Dimethylphthalate-d6	12.10	166	1203077	34.98	ng/ul	-0.01
44) Acenaphthylene-d8	12.33	160	1286389	30.76	ng/ul	-0.01
49) 4-Nitrophenol-d4	12.94	143	100612	14.35	ng/ul	-0.03
55) Fluorene-d10	13.74	176	920294	33.27	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.90	200	328230	34.65	ng/ul	-0.02
68) Anthracene-d10	15.85	188	1508802m	34.43	ng/ul	0.00
74) Pyrene-d10	18.71	212	1706529	37.57	ng/ul	-0.01
85) Benzo(a)pyrene-d12	24.80	264	1628184	32.35	ng/ul	-0.01

Target Compounds						Qvalue
12) Acetophenone	7.40	105	10658	0.58	ng/ul	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.790	20	23	24	rBV2	3005	7431	0.17%	0.016%
2	2.965	36	38	41	rBV2	2465	6393	0.15%	0.013%
3	3.119	50	51	54	rBV2	4512	7673	0.18%	0.016%
4	3.213	54	59	65	rVV6	13900	53324	1.22%	0.111%
5	3.518	82	85	89	rVB2	9112	17909	0.41%	0.037%
6	3.754	102	105	107	rBV2	5270	13546	0.31%	0.028%
7	3.919	116	119	121	rBV	6919	13756	0.32%	0.029%
8	4.142	134	138	142	rBV2	5350	18110	0.42%	0.038%
9	4.530	165	171	174	rBV2	2359	9207	0.21%	0.019%
10	4.648	178	181	185	rVB2	2187	7130	0.16%	0.015%
11	4.848	194	198	201	rBV2	2709	9915	0.23%	0.021%
12	4.919	201	204	205	rBV2	4321	7243	0.17%	0.015%
13	5.212	226	229	231	rBV2	3642	6957	0.16%	0.015%
14	5.940	286	291	296	rVV4	8308	22755	0.52%	0.047%
15	6.046	296	300	305	rVV	388063	693922	15.92%	1.448%
16	6.152	305	309	313	rVV	738794	1161462	26.64%	2.424%
17	6.282	316	320	325	rBV	1021968	1700420	39.01%	3.548%
18	6.435	327	333	334	rBV2	3771	9859	0.23%	0.021%
19	6.682	350	354	360	rVB	855186	1505696	34.54%	3.142%
20	6.823	364	366	369	rBV	5151	9931	0.23%	0.021%
21	7.318	403	408	410	rBV	2407	7029	0.16%	0.015%
22	7.377	410	413	418	rBV	1043143	1496924	34.34%	3.124%
23	7.682	436	439	442	rBV	1218153	1742608	39.98%	3.636%
24	7.893	454	457	461	rBV2	6209	16687	0.38%	0.035%
25	8.211	481	484	488	rVB3	3592	8418	0.19%	0.018%
26	8.306	488	492	495	rBV	1261531	1735564	39.81%	3.622%
27	8.505	507	509	514	rVB	7323	10922	0.25%	0.023%
28	8.775	528	532	535	rBV	1456849	2118072	48.59%	4.420%
29	9.023	552	553	554	rBV	5650	7702	0.18%	0.016%
30	9.070	554	557	560	rVV	1177217	1680151	38.54%	3.506%
31	9.211	567	569	573	rVB3	8507	15308	0.35%	0.032%
32	9.493	590	593	595	rVB	3526	6655	0.15%	0.014%
33	9.799	616	619	621	rBV2	4471	10242	0.23%	0.021%
34	9.835	621	622	629	rVV2	2582	9185	0.21%	0.019%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.716	695	697	700	rVB	3445	6644	0.15%	0.014%
36	11.045	723	725	727	rBV2	7408	13622	0.31%	0.028%
37	11.292	743	746	748	rBV2	21137	31854	0.73%	0.066%
38	11.996	804	806	808	rBV2	5937	6841	0.16%	0.014%
39	12.102	811	815	818	rBV	2027584	2963344	67.98%	6.184%
40	12.326	830	834	837	rBV	1885685	2863693	65.69%	5.976%
41	12.503	846	849	855	rVB3	6779	17012	0.39%	0.035%
42	12.656	858	862	865	rBV	1353039	2120420	48.64%	4.425%
43	12.938	882	886	891	rVB	557242	838966	19.25%	1.751%
44	13.149	901	904	907	rVB3	13504	19254	0.44%	0.040%
45	13.620	941	944	945	rBV3	5936	9679	0.22%	0.020%
46	13.738	950	954	957	rBV	2183735	3421330	78.49%	7.139%
47	13.903	964	968	972	rBV	1285155	2150800	49.34%	4.488%
48	13.997	974	976	979	rVV2	27580	37848	0.87%	0.079%
49	14.091	982	984	987	rVB2	3201	7306	0.17%	0.015%
50	14.362	1004	1007	1009	rBV	3021	6250	0.14%	0.013%
51	14.409	1009	1011	1014	rVV4	3687	7142	0.16%	0.015%
52	14.480	1014	1017	1020	rVB2	2384	6252	0.14%	0.013%
53	15.489	1099	1103	1106	rVB	3047	8283	0.19%	0.017%
54	15.736	1120	1124	1128	rBV	1363889	2340273	53.69%	4.883%
55	15.865	1130	1135	1138	rVV	2016294	3856664	88.47%	8.048%
56	15.970	1142	1144	1148	rVV3	4276	11692	0.27%	0.024%
57	16.064	1150	1152	1155	rVB2	16883	22186	0.51%	0.046%
58	16.205	1161	1164	1167	rVB	10861	16336	0.37%	0.034%
59	16.287	1169	1171	1175	rVB3	3793	7370	0.17%	0.015%
60	17.028	1233	1234	1240	rVB2	5695	7735	0.18%	0.016%
61	18.132	1325	1328	1332	rBV2	3216	7888	0.18%	0.016%
62	18.544	1359	1363	1367	rBV	19709	36960	0.85%	0.077%
63	18.709	1372	1377	1381	rBV	2402048	4359111	100.00%	9.096%
64	18.946	1394	1397	1400	rVB4	4224	9904	0.23%	0.021%
65	19.099	1407	1410	1414	rVB	4097	7035	0.16%	0.015%
66	19.865	1472	1475	1477	rBV2	3556	6671	0.15%	0.014%
67	20.160	1497	1500	1503	rVB3	3627	7427	0.17%	0.015%
68	20.325	1510	1514	1517	rBV3	2801	8593	0.20%	0.018%
69	20.408	1519	1521	1524	rVV2	5666	10587	0.24%	0.022%
70	20.478	1524	1527	1529	rVB3	3821	7807	0.18%	0.016%
71	20.843	1555	1558	1560	rBV2	3951	7228	0.17%	0.015%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

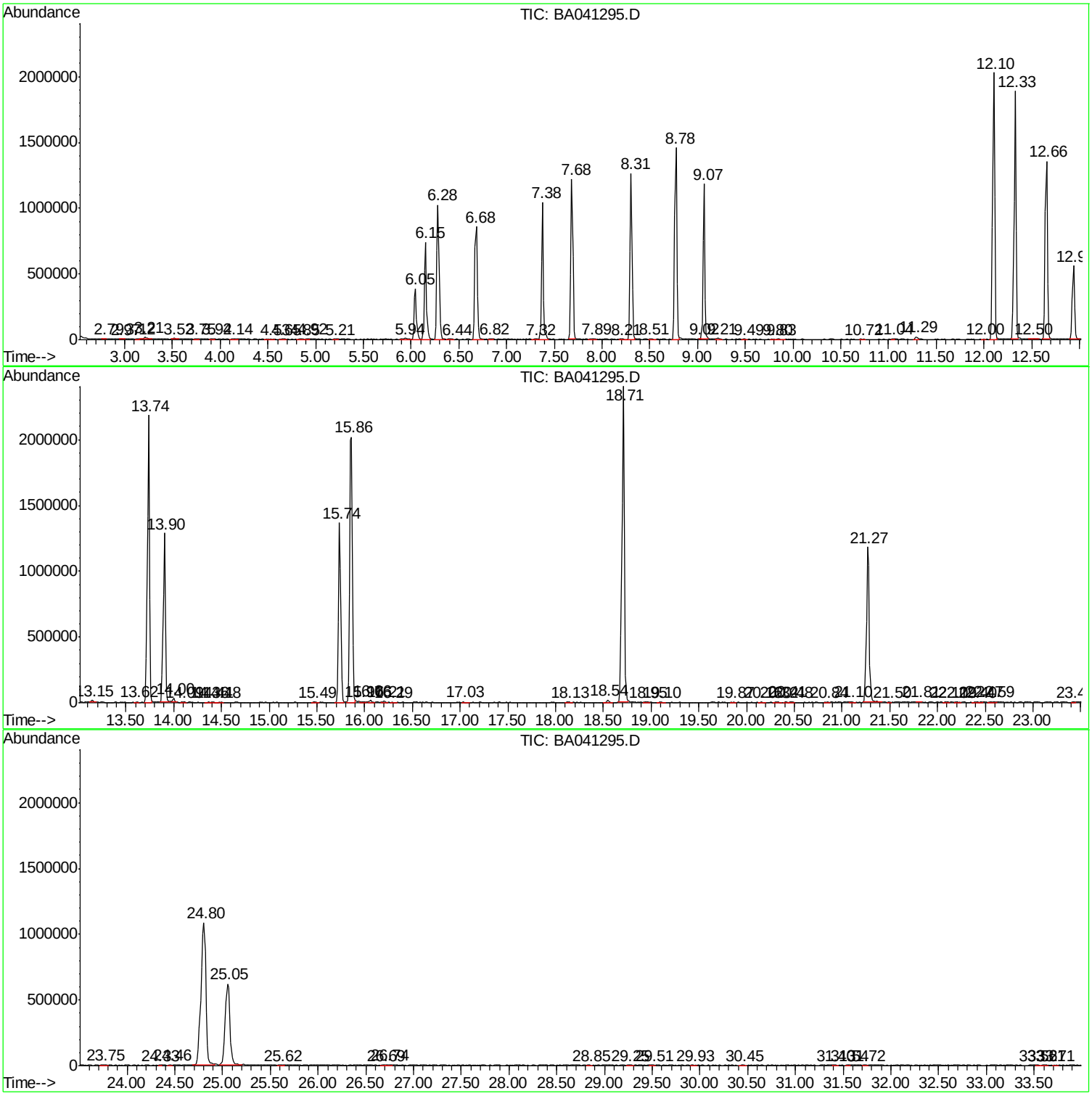
72	21.102	1578	1580	1583	rVB2	4088	6435	0.15%	0.013%
73	21.268	1590	1594	1606	rBV	1179323	2405788	55.19%	5.020%
74	21.504	1611	1614	1615	rVB	3821	6665	0.15%	0.014%
75	21.810	1637	1640	1642	rVB2	3493	7407	0.17%	0.015%
76	22.104	1661	1665	1667	rBV3	3245	6561	0.15%	0.014%
77	22.186	1671	1672	1677	rBV2	2523	7510	0.17%	0.016%
78	22.399	1687	1690	1693	rVB3	3207	8477	0.19%	0.018%
79	22.469	1693	1696	1697	rBV3	6425	10844	0.25%	0.023%
80	22.587	1701	1706	1709	rBV4	3928	15831	0.36%	0.033%
81	23.424	1775	1777	1779	rBV	4222	9142	0.21%	0.019%
82	23.755	1801	1805	1809	rVB4	5478	11786	0.27%	0.025%
83	24.332	1853	1854	1857	rBV3	3899	6714	0.15%	0.014%
84	24.460	1862	1865	1866	rVB2	4945	7233	0.17%	0.015%
85	24.803	1884	1894	1904	rBV	1083769	3772329	86.54%	7.872%
86	25.050	1908	1915	1928	rVB	616562	2097748	48.12%	4.377%
87	25.616	1959	1963	1966	rBV4	3634	11977	0.27%	0.025%
88	26.688	2051	2054	2056	rBV2	5126	15933	0.37%	0.033%
89	26.736	2056	2058	2061	rVV3	6225	15959	0.37%	0.033%
90	28.846	2234	2237	2239	rVB2	3053	6240	0.14%	0.013%
91	29.247	2269	2271	2276	rBV2	3156	7237	0.17%	0.015%
92	29.506	2290	2293	2295	rVB2	2929	6476	0.15%	0.014%
93	29.930	2326	2329	2332	rVB2	3614	9288	0.21%	0.019%
94	30.448	2369	2373	2376	rBV2	2971	7538	0.17%	0.016%
95	31.402	2453	2454	2458	rVB2	4303	7462	0.17%	0.016%
96	31.544	2464	2466	2468	rBV3	3394	7373	0.17%	0.015%
97	31.721	2479	2481	2484	rVB3	3139	6983	0.16%	0.015%
98	33.524	2633	2634	2637	rVV3	3590	7092	0.16%	0.015%
99	33.607	2637	2641	2644	rVV2	3332	10107	0.23%	0.021%
100	33.712	2648	2650	2653	rVB	4339	6660	0.15%	0.014%

Sum of corrected areas: 47922908

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

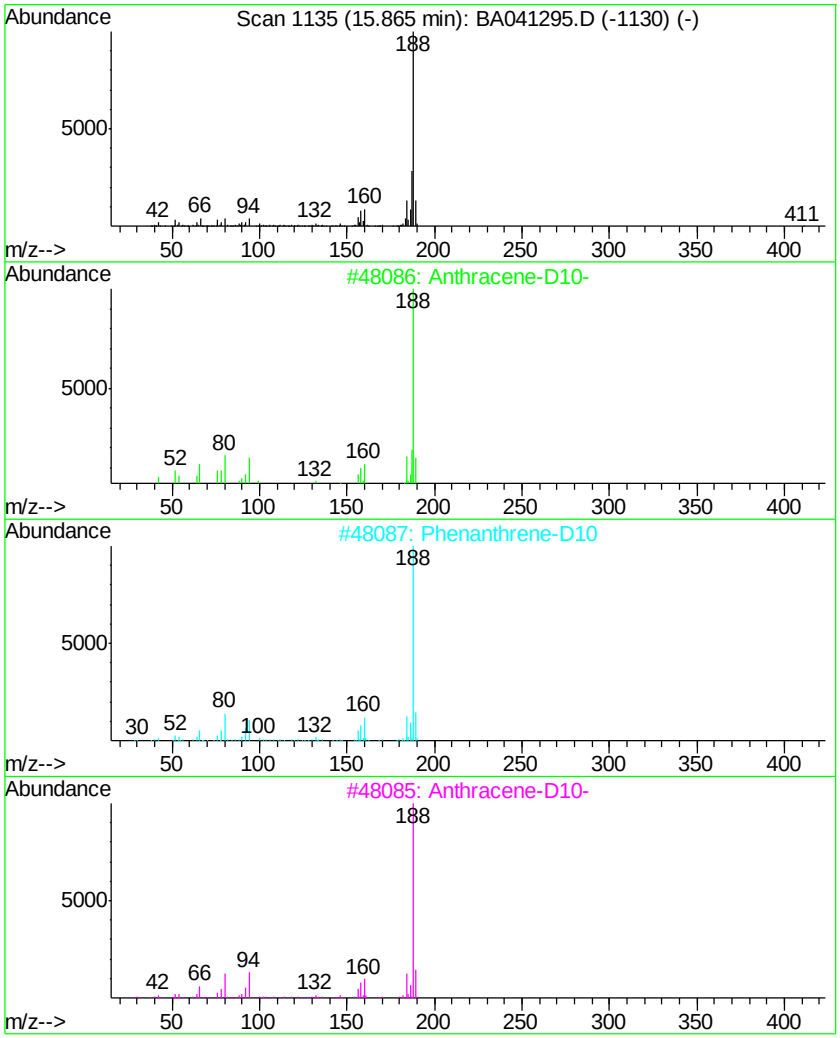
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

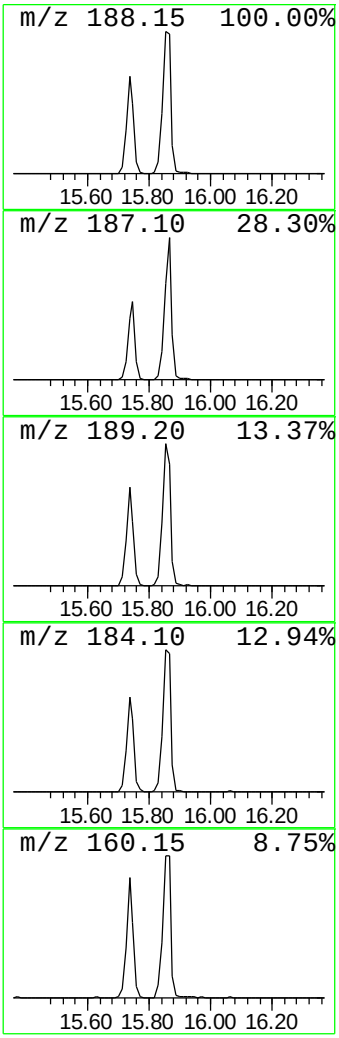
****

Peak Number 1 Anthracene-D10- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.86	32.96 ng/ul	3856660	Phenanthrene-d10	15.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene-D10-	188	C14D10	001719-06-8	94
2	Phenanthrene-D10	188	C14D10	001517-22-2	87
3	Anthracene-D10-	188	C14D10	001719-06-8	81
4	Phenanthrene-D10	188	C14D10	001517-22-2	64
5	N-(4-Aminophenyl)-maleimide	188	C10H8N2O2	029753-26-2	52





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041295.D
Acq On : 19 Oct 2008 18:39
Operator : QM
Sample : Z4920-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Anthracene-D10-	15.86	33.0	ng/ul	3856660	4	15.74	2340270	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2-1

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-03

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041311.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 28.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.97 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	34	J
108-95-2	Phenol	61	J
111-44-4	Bis(2-chloroethyl)ether	120	U
95-57-8	2-Chlorophenol	120	U
95-48-7	2-Methylphenol	120	U
108-60-1	2,2'-Oxybis(1-chloropropane)	120	U
98-86-2	Acetophenone	220	
106-44-5	4-Methylphenol	120	U
621-64-7	N-Nitroso-di-n-propylamine	480	
67-72-1	Hexachloroethane	120	U
98-95-3	Nitrobenzene	120	U
78-59-1	Isophorone	120	U
88-75-5	2-Nitrophenol	120	U
105-67-9	2,4-Dimethylphenol	120	U
111-91-1	Bis(2-chloroethoxy)methane	120	U
120-83-2	2,4-Dichlorophenol	120	U
91-20-3	Naphthalene	120	U
106-47-8	4-Chloroaniline	120	U
87-68-3	Hexachlorobutadiene	120	U
105-60-2	Caprolactam	120	U
59-50-7	4-Chloro-3-methylphenol	120	U
91-57-6	2-Methylnaphthalene	120	U
77-47-4	Hexachlorocyclopentadiene	120	U
88-06-2	2,4,6-Trichlorophenol	120	U
95-95-4	2,4,5-Trichlorophenol	120	U
92-52-4	1,1'-Biphenyl	120	U
91-58-7	2-Chloronaphthalene	120	U
88-74-4	2-Nitroaniline	230	U
131-11-3	Dimethylphthalate	120	U
606-20-2	2,6-Dinitrotoluene	120	U
208-96-8	Acenaphthylene	120	U
99-09-2	3-Nitroaniline	230	U
83-32-9	Acenaphthene	120	U
51-28-5	2,4-Dinitrophenol	230	U
100-02-7	4-Nitrophenol	230	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2-1

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-03

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041311.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 28.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.97 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	120	U
121-14-2	2,4-Dinitrotoluene	120	U
84-66-2	Diethylphthalate	120	U
86-73-7	Fluorene	120	U
7005-72-3	4-Chlorophenyl-phenylether	120	U
100-01-6	4-Nitroaniline	230	U
534-52-1	4,6-Dinitro-2-methylphenol	230	U
86-30-6	N-Nitrosodiphenylamine[1]	120	U
95-94-3	1,2,4,5-Tetrachlorobenzene	120	U
101-55-3	4-Bromophenyl-phenylether	120	U
118-74-1	Hexachlorobenzene	120	U
1912-24-9	Atrazine	120	U
87-86-5	Pentachlorophenol	230	U
85-01-8	Phenanthrene	54	J
120-12-7	Anthracene	120	U
86-74-8	Carbazole	120	U
84-74-2	Di-n-butylphthalate	120	U
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	140	
85-68-7	Butylbenzylphthalate	120	U
91-94-1	3,3'-Dichlorobenzidine	120	U
56-55-3	Benzo(a)anthracene	68	J
218-01-9	Chrysene	110	J
117-81-7	Bis(2-ethylhexyl)phthalate	110	JB
117-84-0	Di-n-octylphthalate	120	U
205-99-2	Benzo(b)fluoranthene	110	J
207-08-9	Benzo(k)fluoranthene	120	U
50-32-8	Benzo(a)pyrene	75	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	U
53-70-3	Dibenzo(a,h)anthracene	120	U
191-24-2	Benzo(g,h,i)perylene	120	U
58-90-2	2,3,4,6-Tetrachlorophenol	120	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC2-1

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4920-03

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041311.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 28.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.97 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

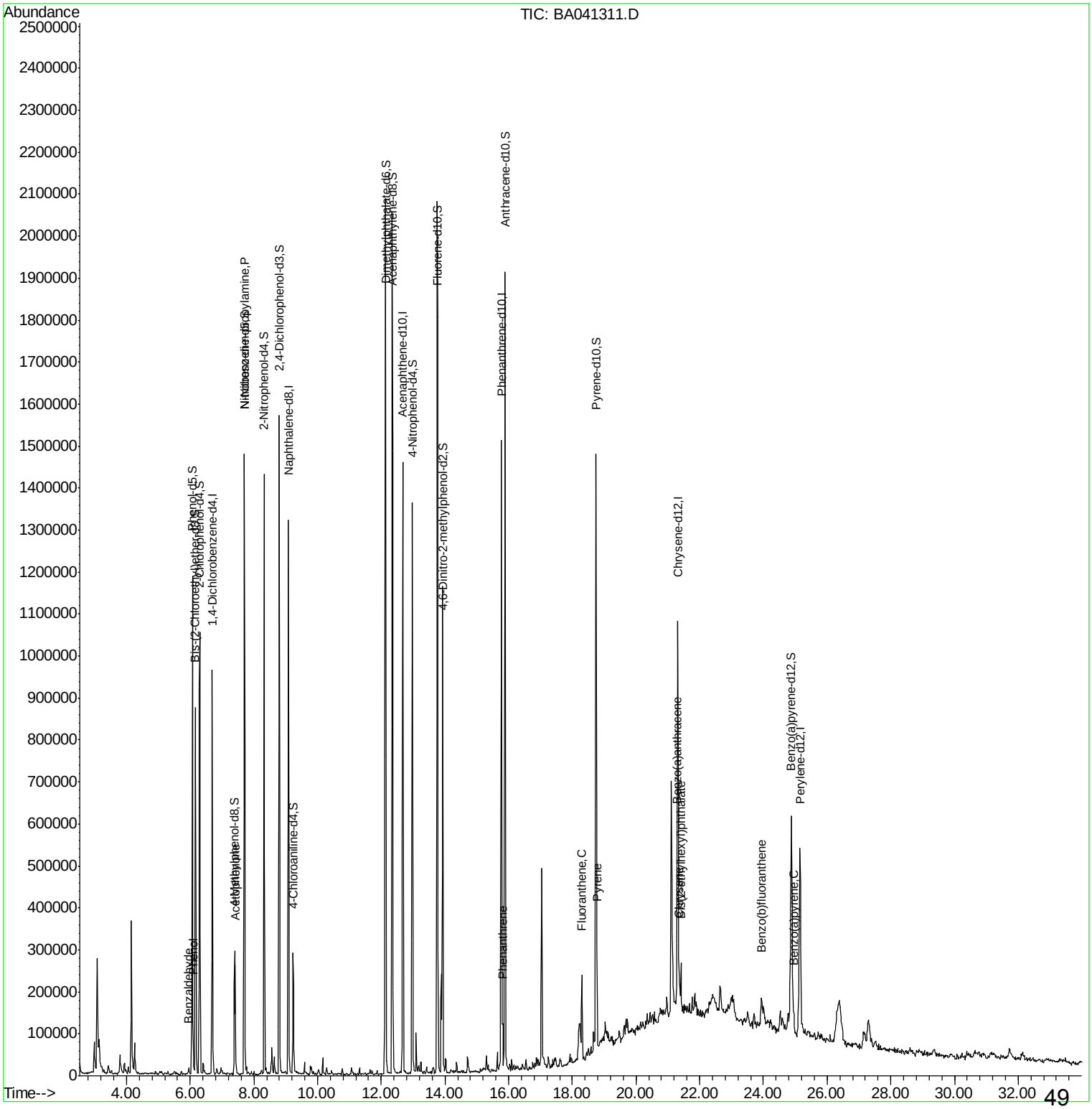
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.		unknown2.99	2.99	100	J
02.	79-39-0	Methacrylamide	3.07	340	JN
03.	17612-35-0	Oxirane, 2,2-dimethyl-3-propyl-	3.80	93	JN
04.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.15	390	A
05.	5076-20-0	Oxirane, tetramethyl-	4.26	99	JN
06.	57-10-3	n-Hexadecanoic acid	17.04	330	JNB
07.	120-46-7	1,3-Propanedione, 1,3-diphenyl-	18.21	150	JN
08.	1599-67-3	1-Docosene	21.12	590	JN
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

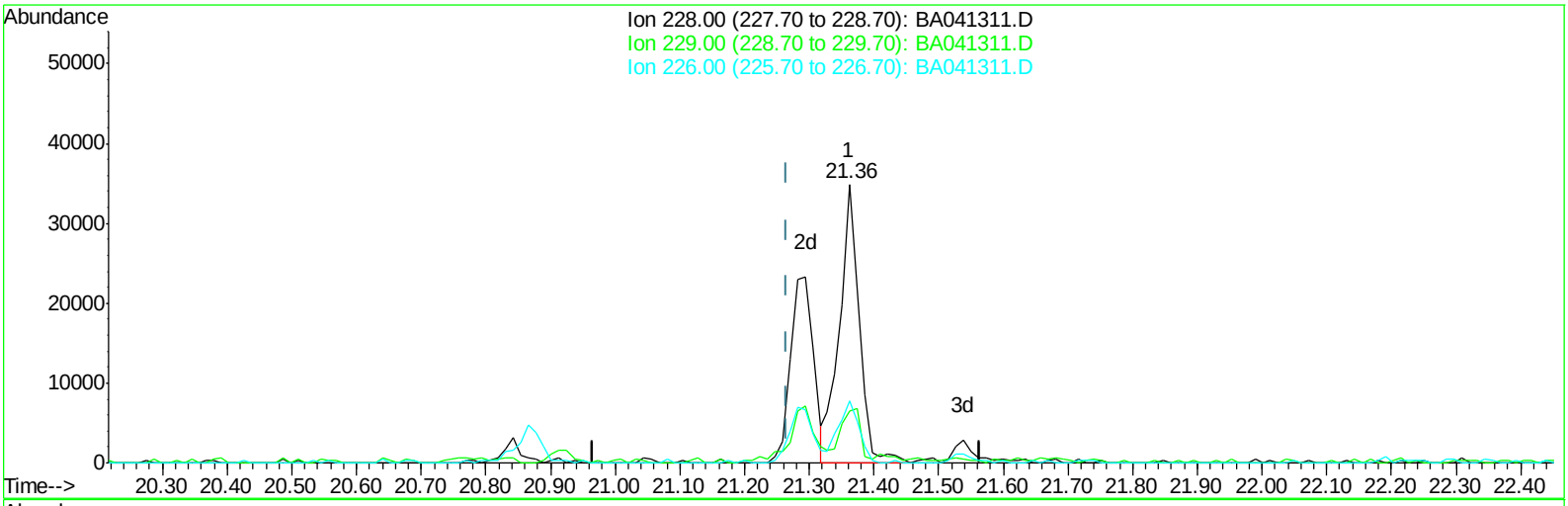
Quant Time: Oct 20 12:43:21 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

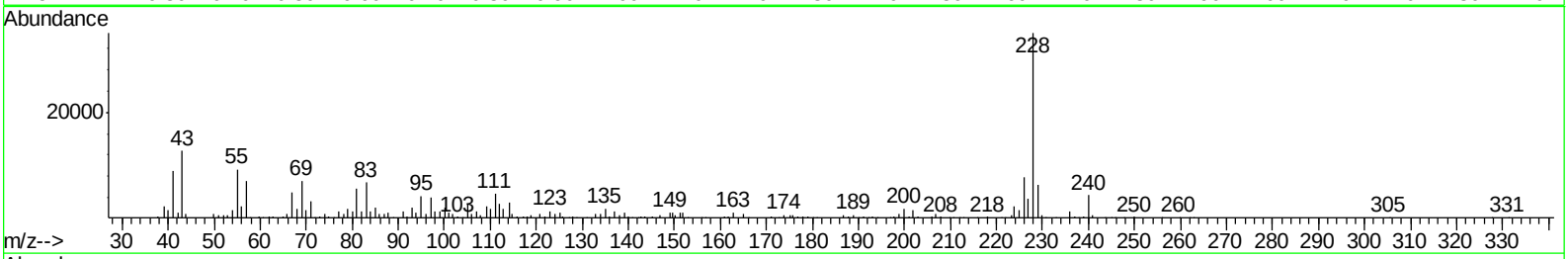


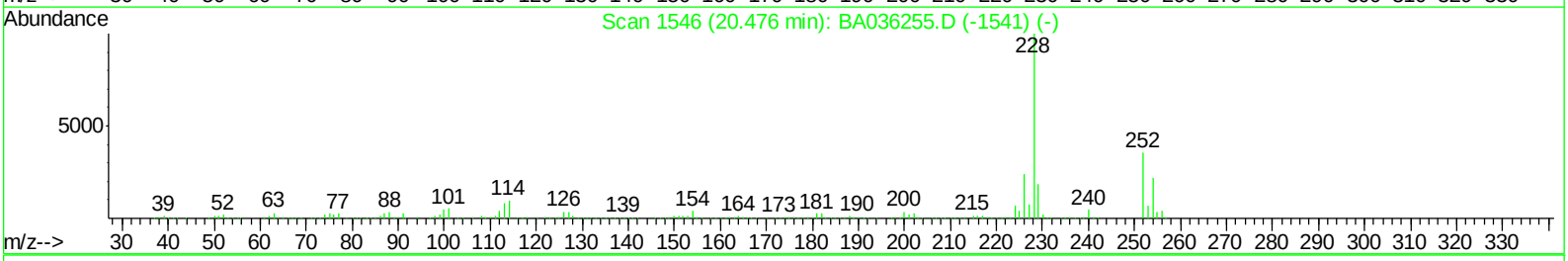
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 20 11:30:02 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







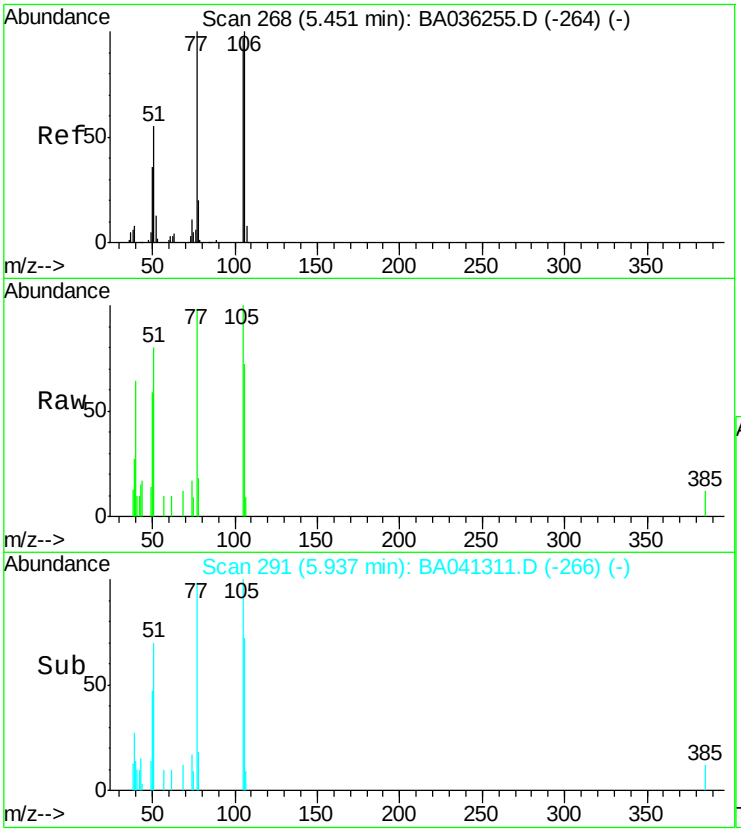
TIC: BA041311.D

(78) Benzo(a)anthracene

21.362min (+0.097) 1.94ng/ul

response 74997

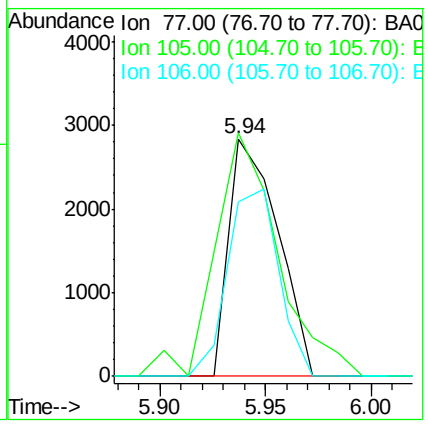
Ion	Exp%	Act%
228.00	100	100
229.00	19.90	18.61
226.00	25.20	22.47
0.00	0.00	0.00

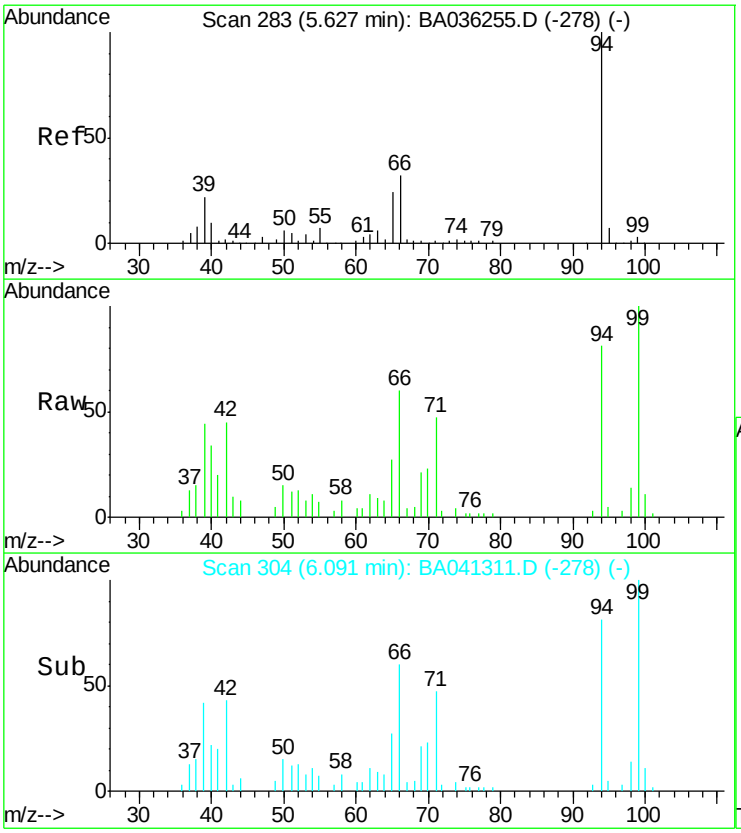


#2
Benzaldehyde
Concen: 0.73 ng/ul
RT: 5.94 min Scan# 291
Delta R.T. -0.00 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion: 77 Resp: 4594

Ion	Ratio	Lower	Upper
77	100		
105	102.4	69.6	104.4
106	73.6	67.9	101.9

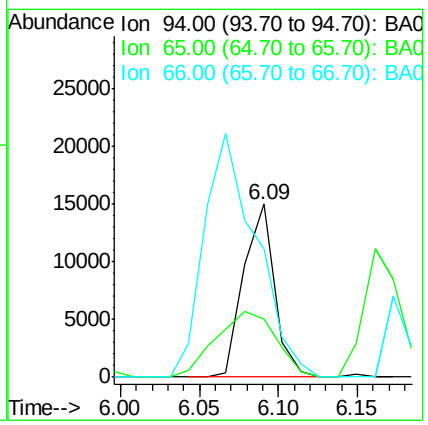


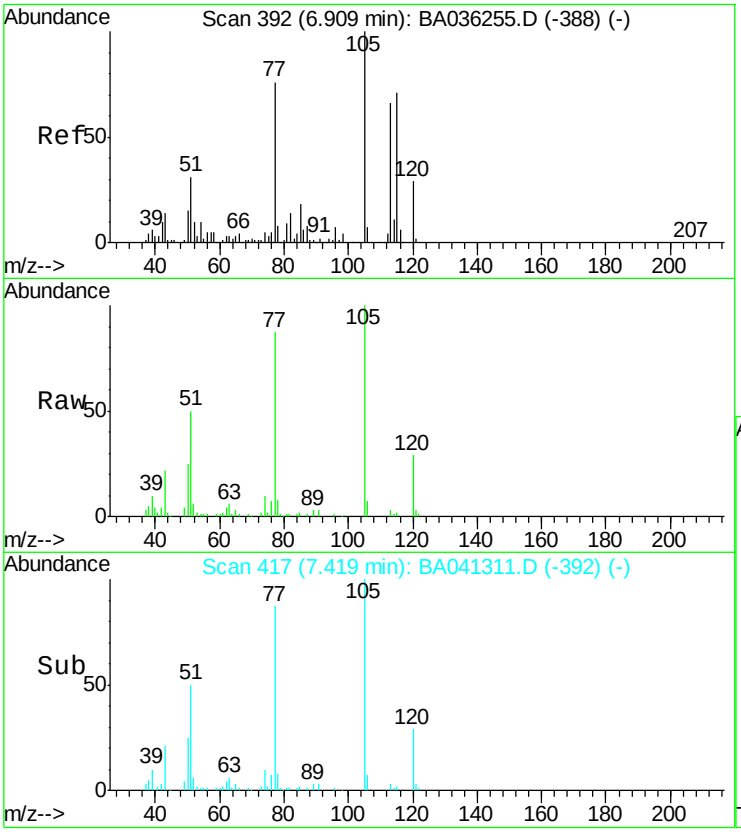


#4
Phenol
Concen: 1.32 ng/ul
RT: 6.09 min Scan# 304
Delta R.T. 0.01 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion: 94 Resp: 20339

Ion	Ratio	Lower	Upper
94	100		
65	33.3	29.0	43.6
66	73.9	53.7	80.5

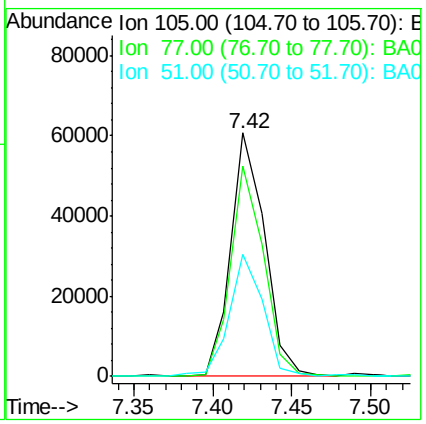


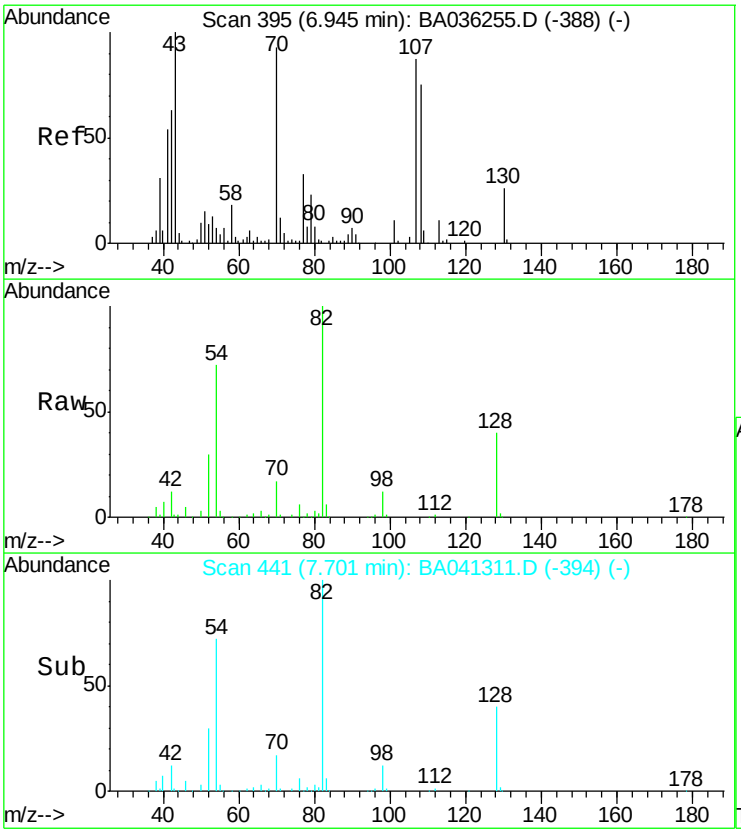


#12
Acetophenone
Concen: 4.80 ng/ul
RT: 7.42 min Scan# 417
Delta R.T. -0.00 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion:105 Resp: 90512

Ion	Ratio	Lower	Upper
105	100		
77	86.6	69.4	104.2
51	50.3	42.1	63.1

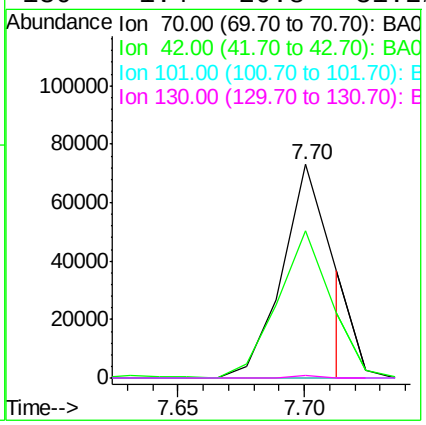


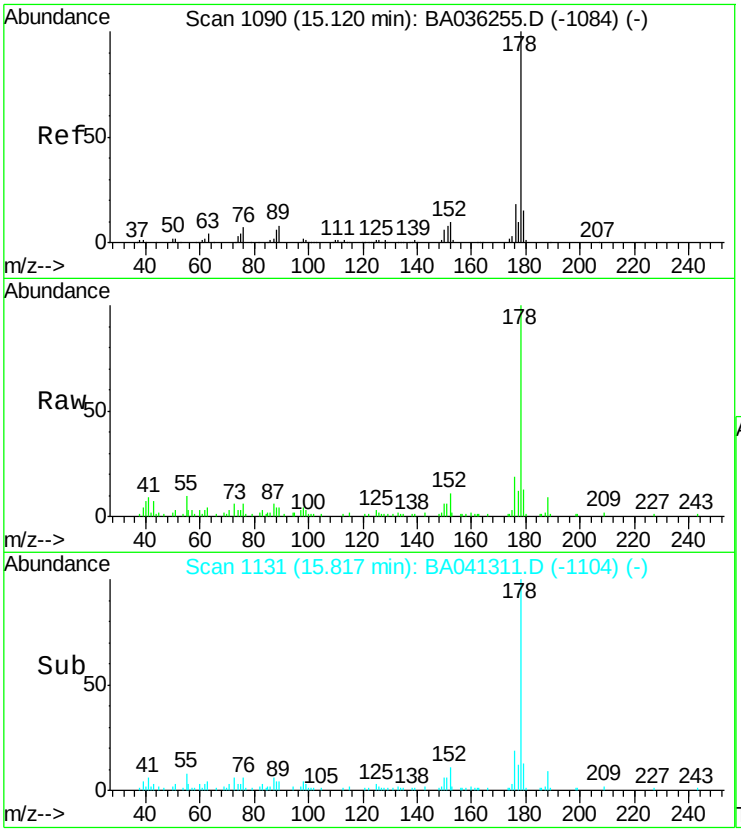


#13
N-Nitroso-di-n-propylamine
Concen: 10.39 ng/ul
RT: 7.70 min Scan# 441
Delta R.T. 0.25 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion: 70 Resp: 99827

Ion	Ratio	Lower	Upper
70	100		
42	68.7	86.1	129.1#
101	0.0	10.9	16.3#
130	1.4	20.8	31.2#

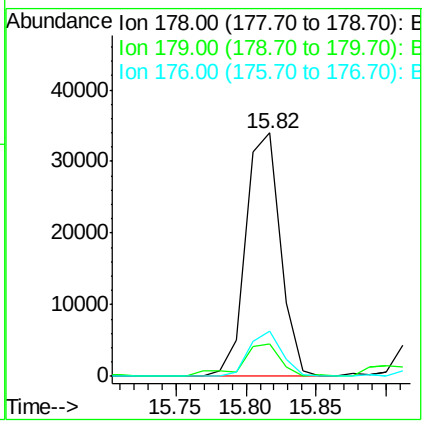


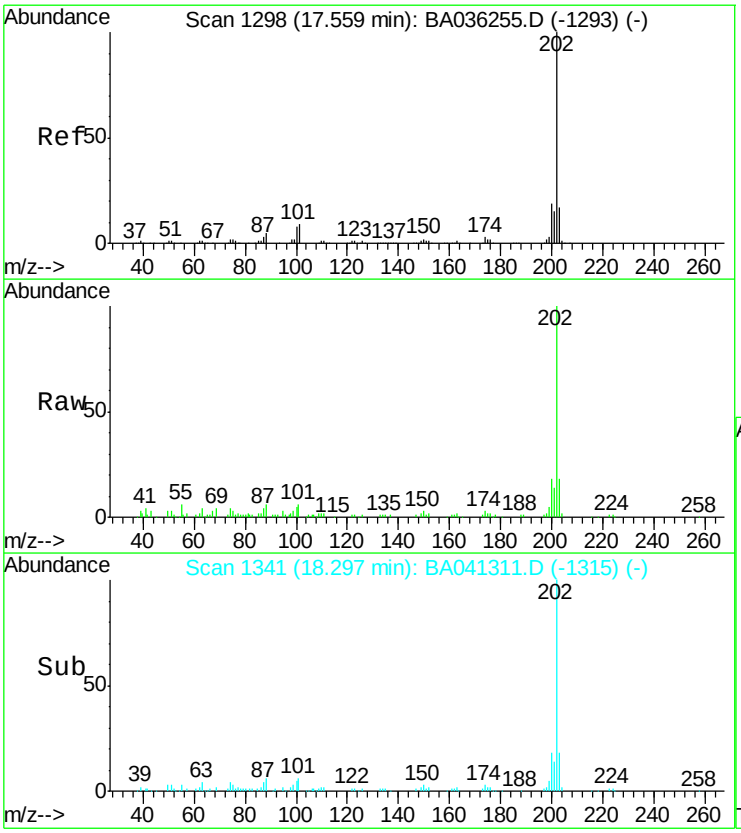


#67
Phenanthrene
Concen: 1.17 ng/ul
RT: 15.82 min Scan# 1131
Delta R.T. 0.01 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion:178 Resp: 58576

Ion	Ratio	Lower	Upper
178	100		
179	13.4	12.0	18.0
176	18.6	14.8	22.2

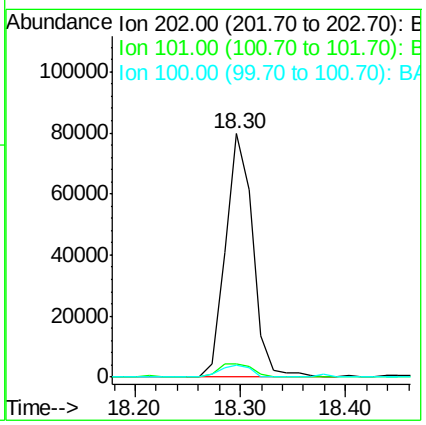


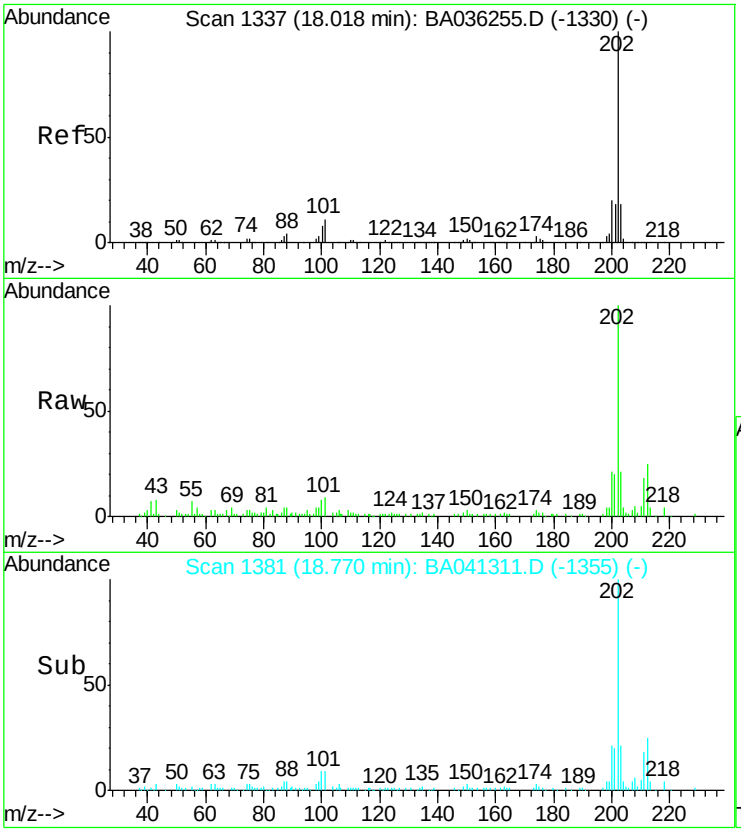


#72
Fluoranthene
Concen: 2.45 ng/ul
RT: 18.30 min Scan# 1341
Delta R.T. 0.01 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion:202 Resp: 145737

Ion	Ratio	Lower	Upper
202	100		
101	5.7	2.6	4.0#
100	5.0	2.9	4.3#

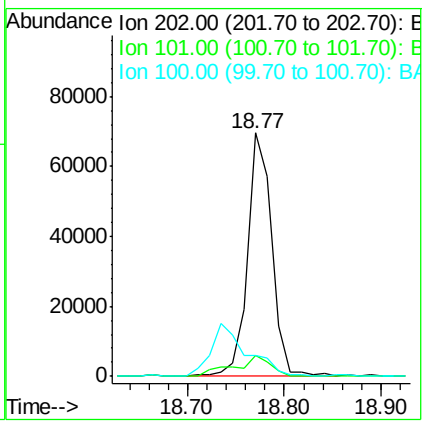


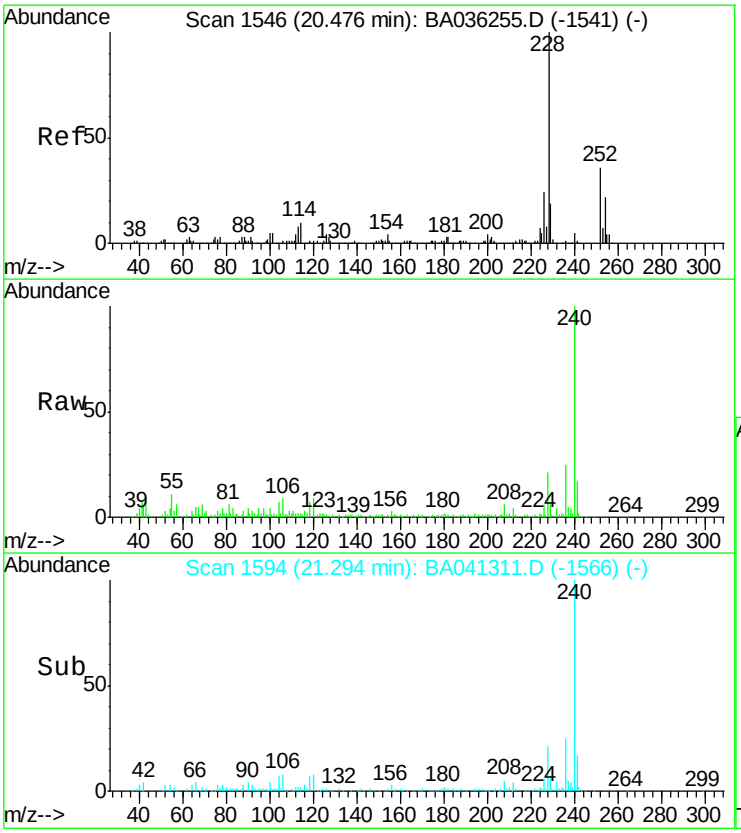


#75
Pyrene
Concen: 2.99 ng/ul
RT: 18.77 min Scan# 1381
Delta R.T. 0.01 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion:202 Resp: 120723

Ion	Ratio	Lower	Upper
202	100		
101	8.8	3.5	5.3#
100	8.5	3.4	5.0#

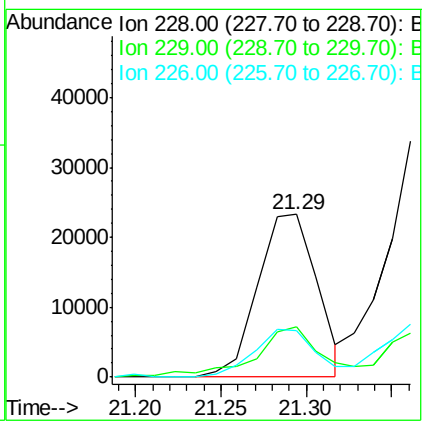


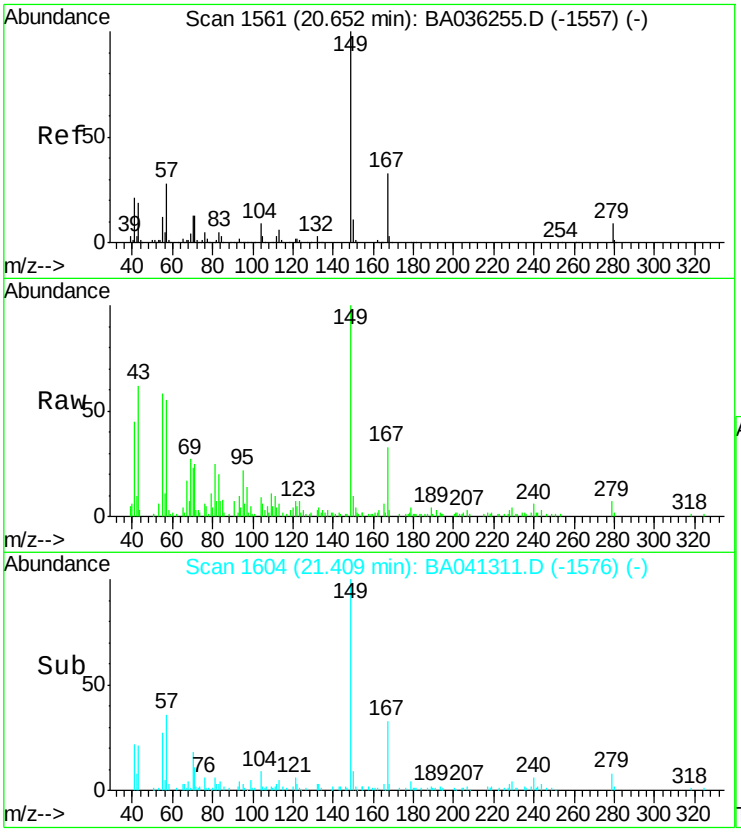


#78
Benzo(a)anthracene
Concen: 1.48 ng/ul m
RT: 21.29 min Scan# 1594
Delta R.T. 0.03 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion:228 Resp: 57233

Ion	Ratio	Lower	Upper
228	100		
229	30.5	15.9	23.9#
226	28.3	20.2	30.2

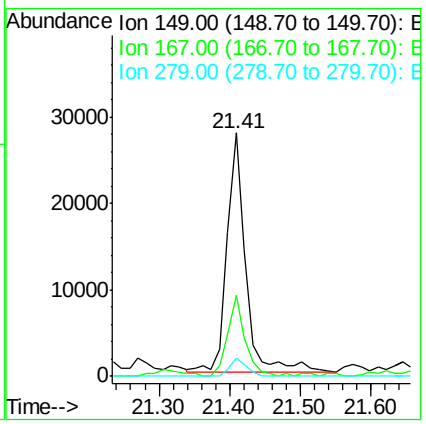


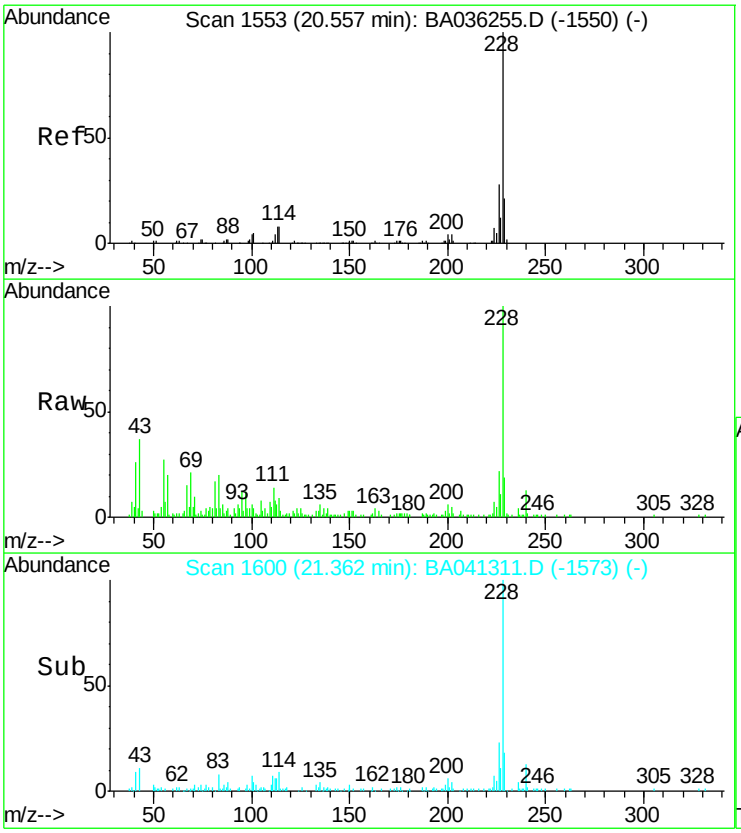


#79
Bis(2-ethylhexyl)phthalate
Concen: 2.45 ng/ul
RT: 21.41 min Scan# 1604
Delta R.T. 0.03 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion:149 Resp: 50111

Ion	Ratio	Lower	Upper
149	100		
167	33.1	26.2	39.4
279	7.4	7.7	11.5#

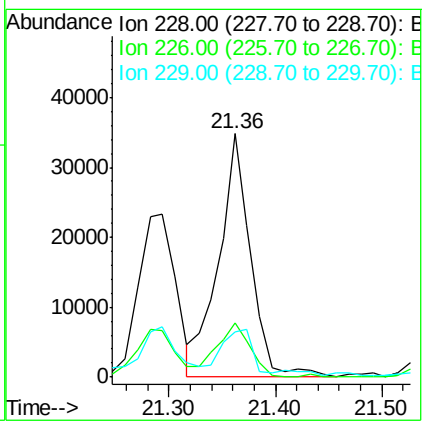


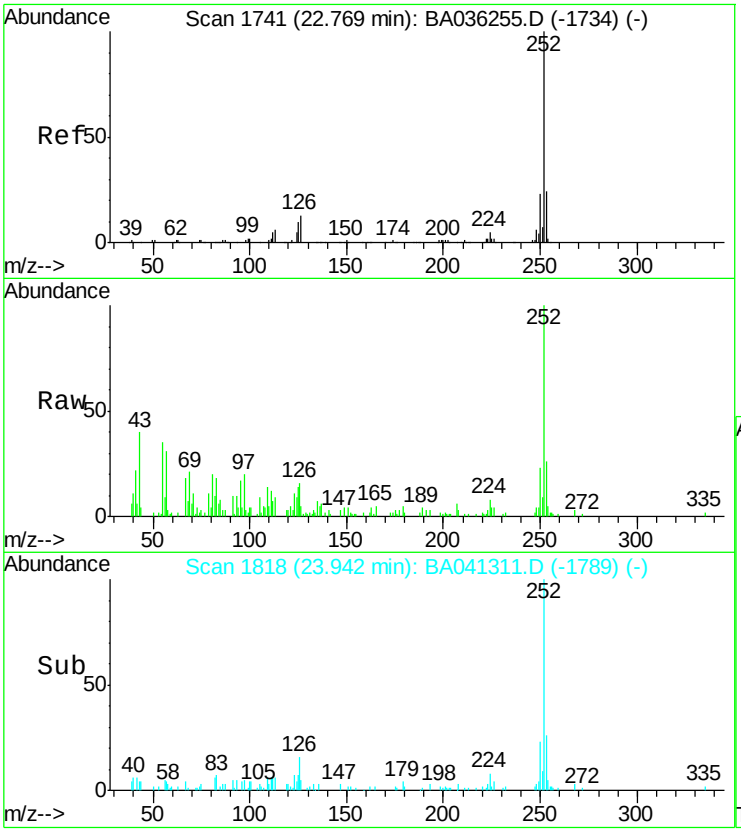


#80
Chrysene
Concen: 2.29 ng/ul
RT: 21.36 min Scan# 1600
Delta R.T. 0.01 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion:228 Resp: 74997

Ion	Ratio	Lower	Upper
228	100		
226	22.5	20.6	31.0
229	18.6	14.4	21.6

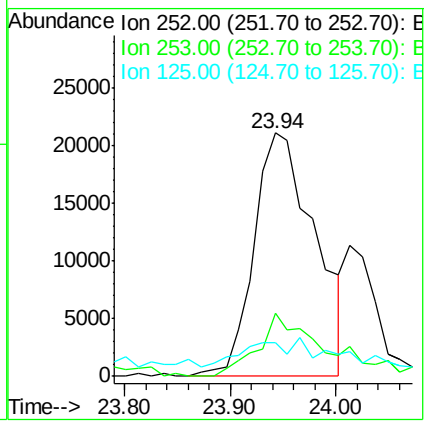


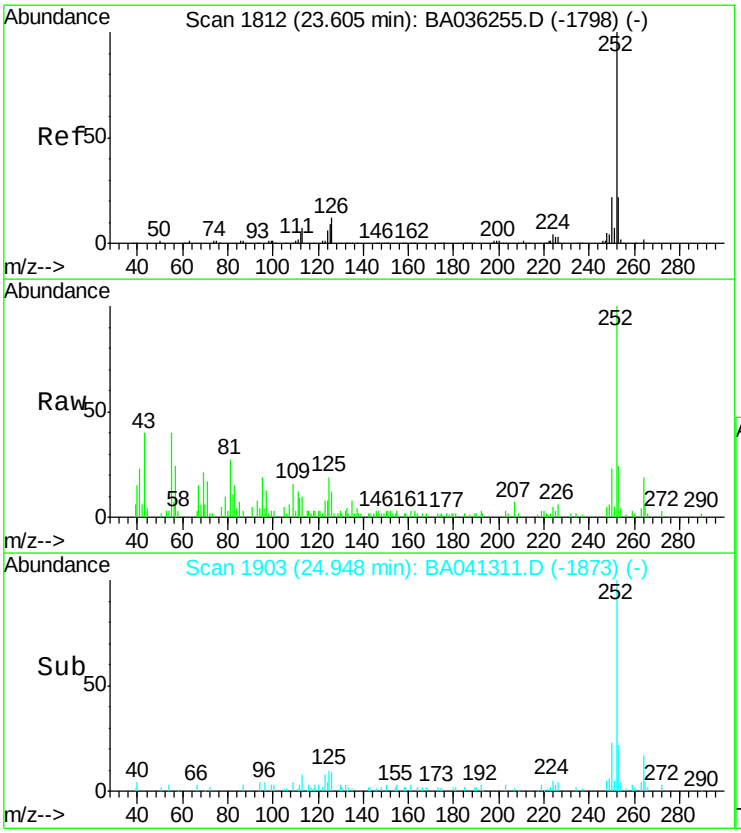


#83
Benzo(b)fluoranthene
Concen: 2.28 ng/ul
RT: 23.94 min Scan# 1818
Delta R.T. 0.04 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion:252 Resp: 84713

Ion	Ratio	Lower	Upper
252	100		
253	26.1	16.2	24.2#
125	14.0	4.1	6.1#

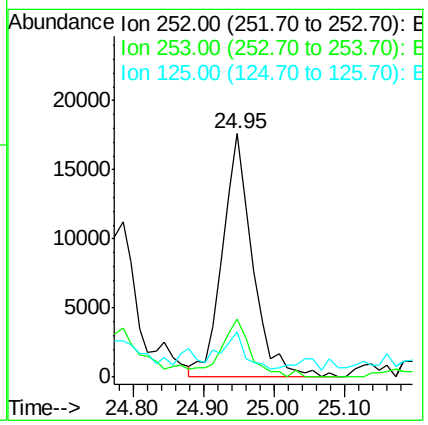




#86
Benzo(a)pyrene
Concen: 1.63 ng/ul
RT: 24.95 min Scan# 1903
Delta R.T. 0.05 min
Lab File: BA041311.D
Acq: 20 Oct 2008 5:39

Tgt Ion:252 Resp: 52162

Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.1	22.7#
125	18.5	3.4	5.2#



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 20 12:43:21 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	234443	20.00	ng/ul	0.00
16) Naphthalene-d8	9.09	136	809158	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.68	164	570540	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.77	188	982684	20.00	ng/ul	0.01
73) Chrysene-d12	21.32	240	727827	20.00	ng/ul	0.03
81) Perylene-d12	25.15	264	569914	20.00	ng/ul	0.07
System Monitoring Compounds						
3) Phenol-d5	6.07	99	446505	31.46	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	343740	35.72	ng/ul	0.00
7) 2-Chlorophenol-d4	6.30	132	398712	33.05	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	71605	7.44	ng/ul	0.00
17) Nitrobenzene-d5	7.70	128	251007	35.04	ng/ul	0.00
20) 2-Nitrophenol-d4	8.33	143	293225	33.25	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.80	165	404765	24.80	ng/ul	0.00
27) 4-Chloroaniline-d4	9.23	131	115014	7.13	ng/ul	0.00
41) Dimethylphthalate-d6	12.14	166	1418925	37.34	ng/ul	0.02
44) Acenaphthylene-d8	12.35	160	1473330	31.89	ng/ul	0.00
49) 4-Nitrophenol-d4	12.98	143	286077	36.94	ng/ul	0.02
55) Fluorene-d10	13.76	176	1000733	32.75	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.94	200	336395	33.08	ng/ul	0.02
68) Anthracene-d10	15.89	188	1196815	25.44	ng/ul	0.03
74) Pyrene-d10	18.75	212	1008346	31.71	ng/ul	0.03
85) Benzo(a)pyrene-d12	24.88	264	633828	20.42	ng/ul	0.06
Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	4594	0.73	ng/ul	85
4) Phenol	6.09	94	20339	1.32	ng/ul	93
12) Acetophenone	7.42	105	90512	4.80	ng/ul	99
13) N-Nitroso-di-n-propylamine	7.70	70	99827	10.39	ng/ul#	61
67) Phenanthrene	15.82	178	58576	1.17	ng/ul	98
72) Fluoranthene	18.30	202	145737	2.45	ng/ul#	94
75) Pyrene	18.77	202	120723	2.99	ng/ul#	87
78) Benzo(a)anthracene	21.29	228	57233m	1.48	ng/ul	
79) Bis(2-ethylhexyl)phthalate	21.41	149	50111	2.45	ng/ul#	98
80) Chrysene	21.36	228	74997	2.29	ng/ul	96
83) Benzo(b)fluoranthene	23.94	252	84713	2.28	ng/ul#	84
86) Benzo(a)pyrene	24.95	252	52162	1.63	ng/ul#	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.919	27	34	36	rBV5	5028	18427	0.49%	0.033%
2	2.990	36	40	45	rBV	72374	173613	4.66%	0.314%
3	3.071	45	47	51	rVV	263041	581856	15.62%	1.053%
4	3.142	51	53	58	rVB	66628	148262	3.98%	0.268%
5	3.283	63	65	68	rVB2	9032	18685	0.50%	0.034%
6	3.425	75	77	81	rBV2	19439	38613	1.04%	0.070%
7	3.531	83	86	91	rVB2	9995	24388	0.65%	0.044%
8	3.798	102	109	118	rBV2	48372	160904	4.32%	0.291%
9	3.940	118	121	123	rBV2	22904	35984	0.97%	0.065%
10	4.057	128	131	135	rVV2	18284	34242	0.92%	0.062%
11	4.151	135	139	145	rVV	366286	673079	18.07%	1.218%
12	4.257	145	148	155	rVB	75083	171175	4.60%	0.310%
13	5.044	211	215	218	rBV3	8452	26696	0.72%	0.048%
14	5.303	233	237	242	rVB4	7518	20721	0.56%	0.038%
15	5.503	251	254	258	rVB5	7247	18836	0.51%	0.034%
16	5.726	268	273	275	rBV	9168	19865	0.53%	0.036%
17	5.949	286	292	298	rVV4	17705	52949	1.42%	0.096%
18	6.067	298	302	307	rBV	1187767	1946089	52.24%	3.522%
19	6.161	307	310	316	rVB	872046	1423397	38.21%	2.576%
20	6.301	318	322	327	rVB	1049727	1851651	49.71%	3.351%
21	6.407	329	331	333	rBV2	24301	40087	1.08%	0.073%
22	6.689	352	355	360	rBV	960994	1596214	42.85%	2.889%
23	6.842	363	368	372	rBV3	14492	36860	0.99%	0.067%
24	6.971	375	379	381	rBV2	14842	31974	0.86%	0.058%
25	7.395	411	415	416	rBV	296446	487222	13.08%	0.882%
26	7.701	438	441	444	rBV	1476258	2139337	57.43%	3.872%
27	7.771	444	447	449	rVB2	16233	29284	0.79%	0.053%
28	7.925	456	460	465	rBV3	8962	24570	0.66%	0.044%
29	8.325	490	494	497	rBV	1427441	2020285	54.24%	3.657%
30	8.372	497	498	503	rVB3	14114	26537	0.71%	0.048%
31	8.572	508	515	518	rBV	62804	176921	4.75%	0.320%
32	8.642	518	521	525	rVB2	40263	56668	1.52%	0.103%
33	8.796	531	534	537	rBV	1564970	2158343	57.94%	3.906%
34	9.089	556	559	562	rBV	1314276	1826946	49.05%	3.307%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.231	568	571	576	rBV	285845	474584	12.74%	0.859%
36	9.596	600	602	604	rVV	29802	37036	0.99%	0.067%
37	9.772	615	617	619	rBV	20998	39677	1.07%	0.072%
38	9.807	619	620	623	rVV	17386	18393	0.49%	0.033%
39	9.866	623	625	629	rVB3	9139	18880	0.51%	0.034%
40	10.031	634	639	644	rVB2	12766	34805	0.93%	0.063%
41	10.161	647	650	658	rBV	40030	66219	1.78%	0.120%
42	10.278	658	660	664	rVV2	17412	31005	0.83%	0.056%
43	10.431	669	673	679	rVB4	9603	27551	0.74%	0.050%
44	10.773	700	702	705	rVB3	15428	25606	0.69%	0.046%
45	11.067	725	727	730	rVV2	17128	30968	0.83%	0.056%
46	11.315	746	748	752	rBV	17685	32208	0.86%	0.058%
47	11.655	774	777	779	rVV2	12170	21315	0.57%	0.039%
48	12.124	813	817	820	rBV	2085620	3487982	93.64%	6.313%
49	12.172	820	821	825	rVB2	27383	28860	0.77%	0.052%
50	12.347	832	836	840	rBV	2049666	3331328	89.43%	6.030%
51	12.675	861	864	868	rVV	1456247	2304956	61.88%	4.172%
52	12.982	885	890	893	rBV	1360034	2345968	62.98%	4.246%
53	13.100	897	900	903	rVV	96899	151565	4.07%	0.274%
54	13.183	903	907	909	rVV	17173	38583	1.04%	0.070%
55	13.242	910	912	918	rVB	28767	54664	1.47%	0.099%
56	13.419	924	927	933	rBV4	16950	38216	1.03%	0.069%
57	13.630	941	945	949	rVB3	15400	47415	1.27%	0.086%
58	13.759	949	956	960	rBV	2078665	3725023	100.00%	6.742%
59	13.889	964	967	968	rVV	235493	393189	10.56%	0.712%
60	13.924	968	970	974	rVV	1157376	1986409	53.33%	3.595%
61	14.016	976	978	982	rVB2	35954	63443	1.70%	0.115%
62	14.192	990	993	996	rBV2	8359	18806	0.50%	0.034%
63	14.368	1005	1008	1011	rVB2	24388	44537	1.20%	0.081%
64	14.709	1034	1037	1044	rVB3	40132	95994	2.58%	0.174%
65	15.298	1085	1087	1090	rVV4	37236	59406	1.59%	0.108%
66	15.357	1090	1092	1093	rVV2	14606	19242	0.52%	0.035%
67	15.464	1098	1101	1104	rBV4	6669	18585	0.50%	0.034%
68	15.651	1114	1117	1120	rBV	46071	68521	1.84%	0.124%
69	15.710	1120	1122	1123	rBV2	12418	20928	0.56%	0.038%
70	15.769	1123	1127	1129	rVV	1490177	2465061	66.18%	4.462%
71	15.817	1129	1131	1133	rVB	101107	158986	4.27%	0.288%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

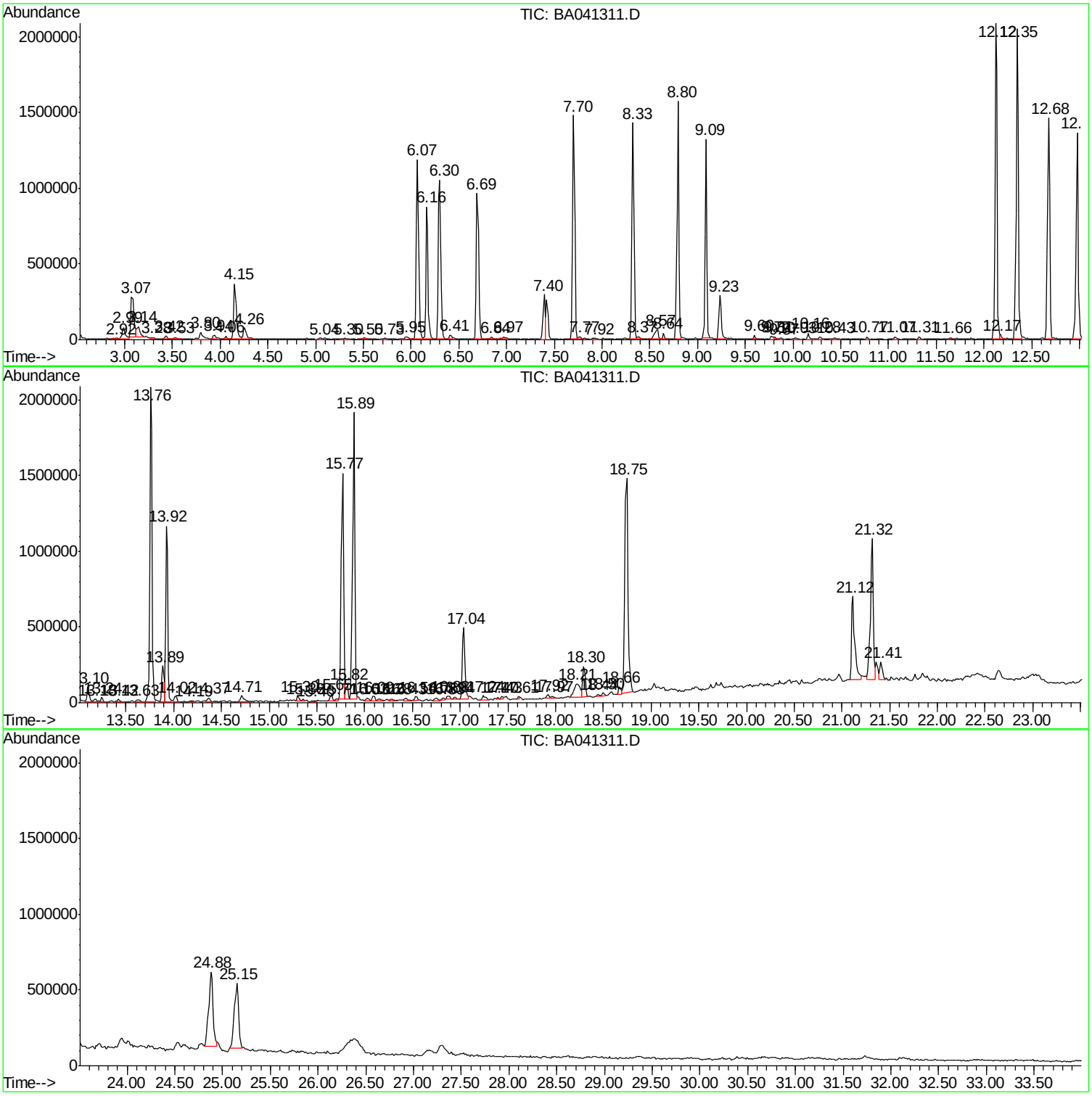
72	15.888	1133	1137	1140	rBV	1891653	3200430	85.92%	5.793%
73	16.029	1146	1149	1152	rVB5	16940	38948	1.05%	0.070%
74	16.088	1152	1154	1157	rBV3	28734	57875	1.55%	0.105%
75	16.159	1157	1160	1164	rVV6	13596	33835	0.91%	0.061%
76	16.277	1168	1170	1174	rVV5	11238	22790	0.61%	0.041%
77	16.430	1181	1183	1188	rVB4	13438	31978	0.86%	0.058%
78	16.536	1190	1192	1195	rVV2	24768	38074	1.02%	0.069%
79	16.759	1207	1211	1214	rBV4	17160	41188	1.11%	0.075%
80	16.829	1214	1217	1218	rBV	12028	20672	0.55%	0.037%
81	16.877	1218	1221	1225	rBV5	22185	56448	1.52%	0.102%
82	16.936	1225	1226	1229	rBV3	14303	25435	0.68%	0.046%
83	17.043	1231	1235	1239	rBV	467567	883833	23.73%	1.600%
84	17.244	1249	1252	1257	rVB7	28181	72292	1.94%	0.131%
85	17.398	1263	1265	1267	rBV3	16321	23133	0.62%	0.042%
86	17.433	1267	1268	1270	rBV2	16315	27729	0.74%	0.050%
87	17.611	1281	1283	1284	rBV2	16790	21685	0.58%	0.039%
88	17.918	1307	1309	1311	rBV	21828	35884	0.96%	0.065%
89	17.965	1311	1313	1316	rVB4	14411	27217	0.73%	0.049%
90	18.213	1329	1334	1339	rBV5	87286	394169	10.58%	0.713%
91	18.297	1339	1341	1345	rVB	200797	347901	9.34%	0.630%
92	18.438	1351	1353	1356	rBV4	16533	39115	1.05%	0.071%
93	18.497	1356	1358	1362	rVB4	19151	38267	1.03%	0.069%
94	18.664	1370	1372	1374	rBV3	49517	91655	2.46%	0.166%
95	18.746	1374	1379	1384	rVB2	1413738	3125214	83.90%	5.656%
96	21.116	1576	1579	1586	rBV	547968	1336157	35.87%	2.418%
97	21.317	1591	1596	1599	rVV	930206	2091096	56.14%	3.785%
98	21.409	1602	1604	1608	rVB	116611	205194	5.51%	0.371%
99	24.879	1891	1897	1902	rBV	491894	1618939	43.46%	2.930%
100	25.149	1914	1920	1925	rBV	428570	1386517	37.22%	2.510%

Sum of corrected areas: 55250264

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

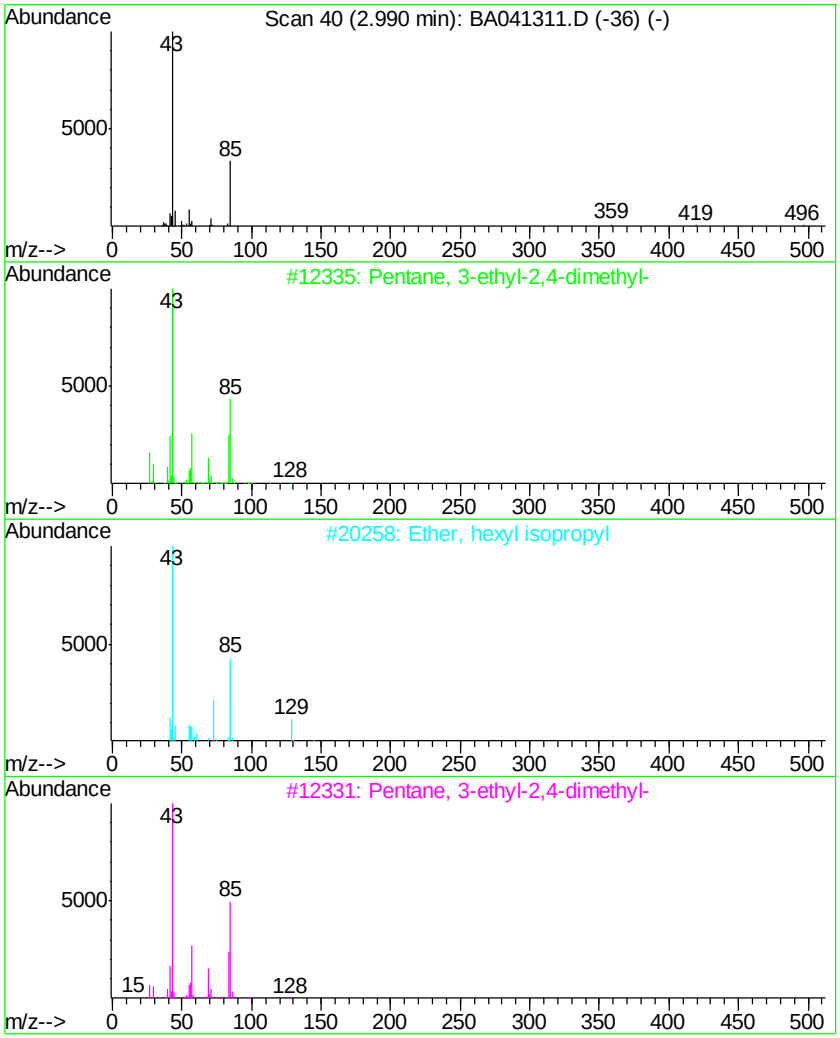
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

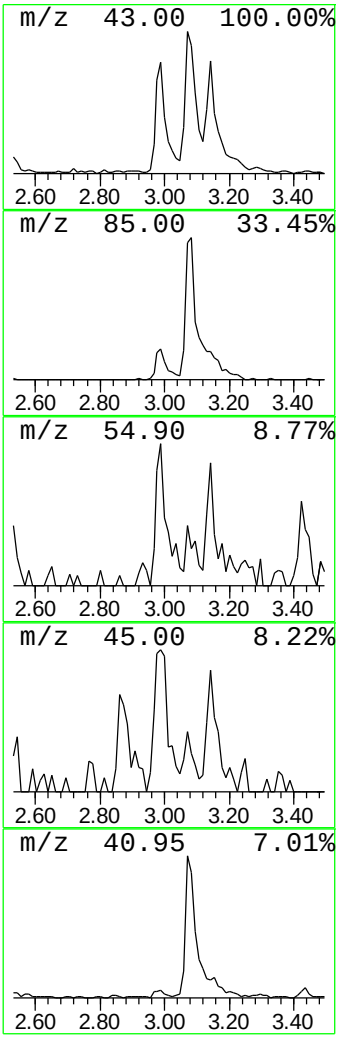
****

Peak Number 1 unknown2.99 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	2.18 ng/ul	173613	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	38
2	Ether, hexyl isopropyl	144	C9H20O	018636-65-2	9
3	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	9
4	Ethanone, 1-(3-ethyloxiranyl)-	114	C6H10O2	017257-81-7	9
5	2-Propene-1,1-diol, diacetate	158	C7H10O4	000869-29-4	4





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

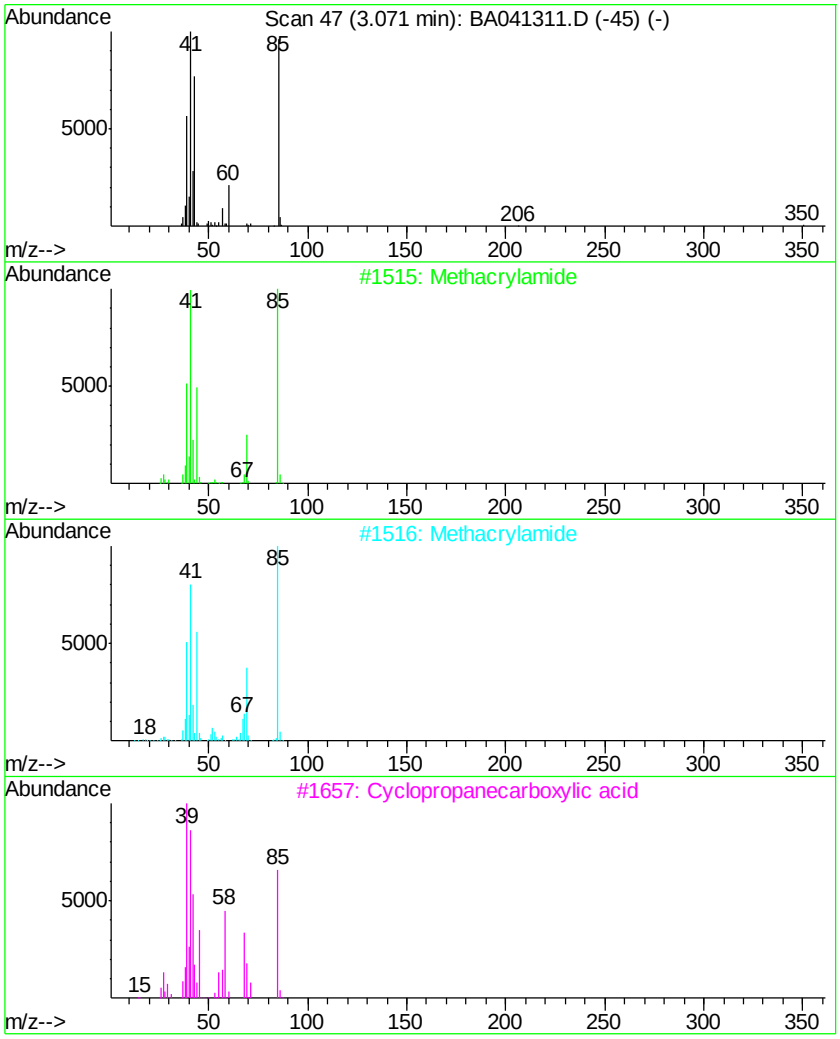
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

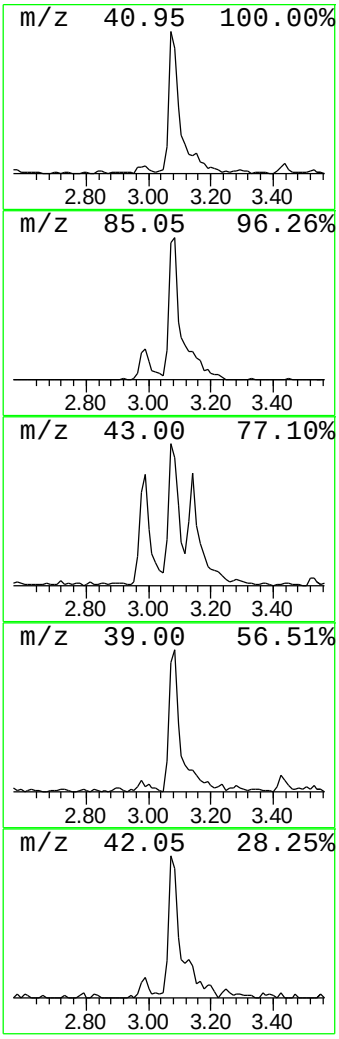
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Methacrylamide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.07	7.29 ng/ul	581856	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methacrylamide	85	C4H7NO	000079-39-0	64
2	Methacrylamide	85	C4H7NO	000079-39-0	53
3	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	43
4	Methacrylamide	85	C4H7NO	000079-39-0	42
5	2H-Pyran, tetrahydro-2-methyl-	100	C6H12O	010141-72-7	40





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

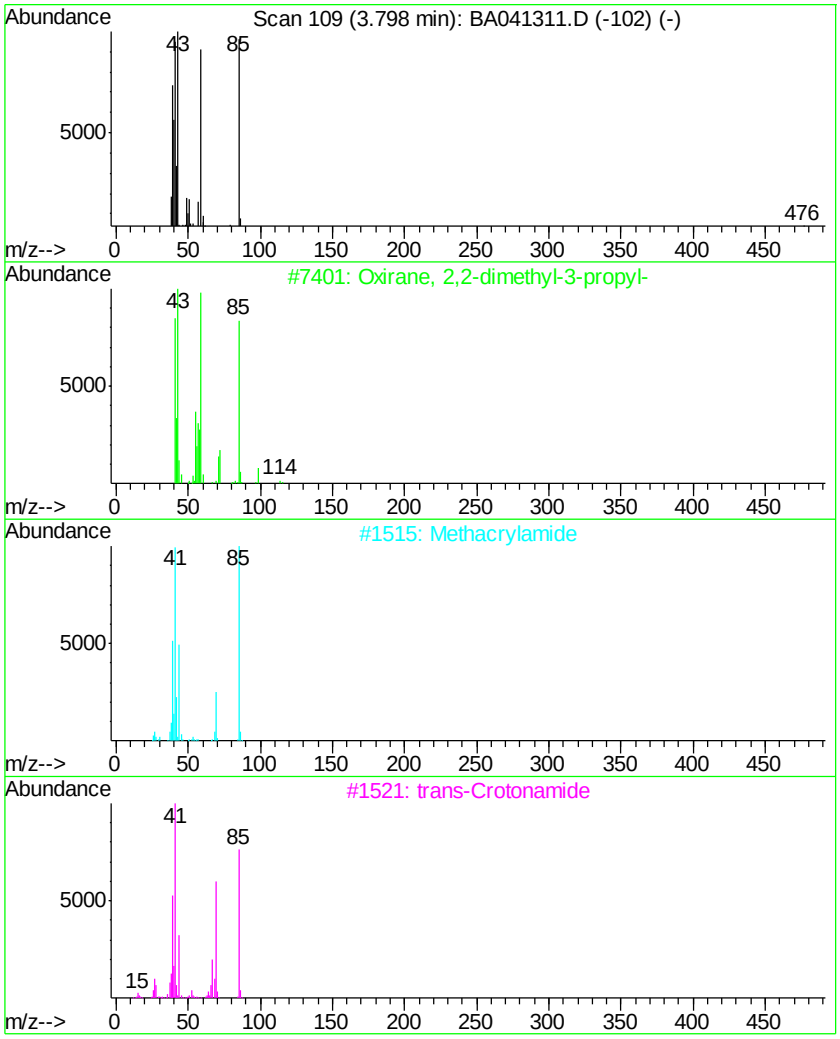
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

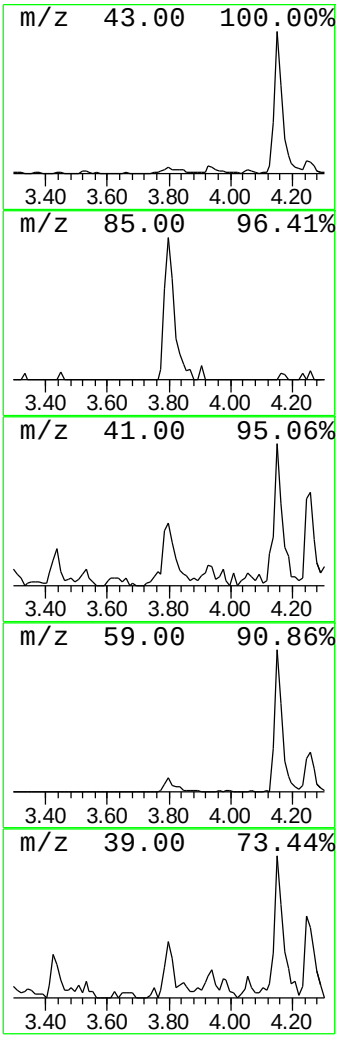
****

Peak Number 3 Oxirane, 2,2-dimethyl-3-pro... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.80	2.02 ng/ul	160904	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, 2,2-dimethyl-3-propyl-	114	C7H14O	017612-35-0	72
2	Methacrylamide	85	C4H7NO	000079-39-0	64
3	trans-Crotonamide	85	C4H7NO	000625-37-6	59
4	Methacrylamide	85	C4H7NO	000079-39-0	59
5	4-Methyl itaconate	144	C6H8O4	007338-27-4	56





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

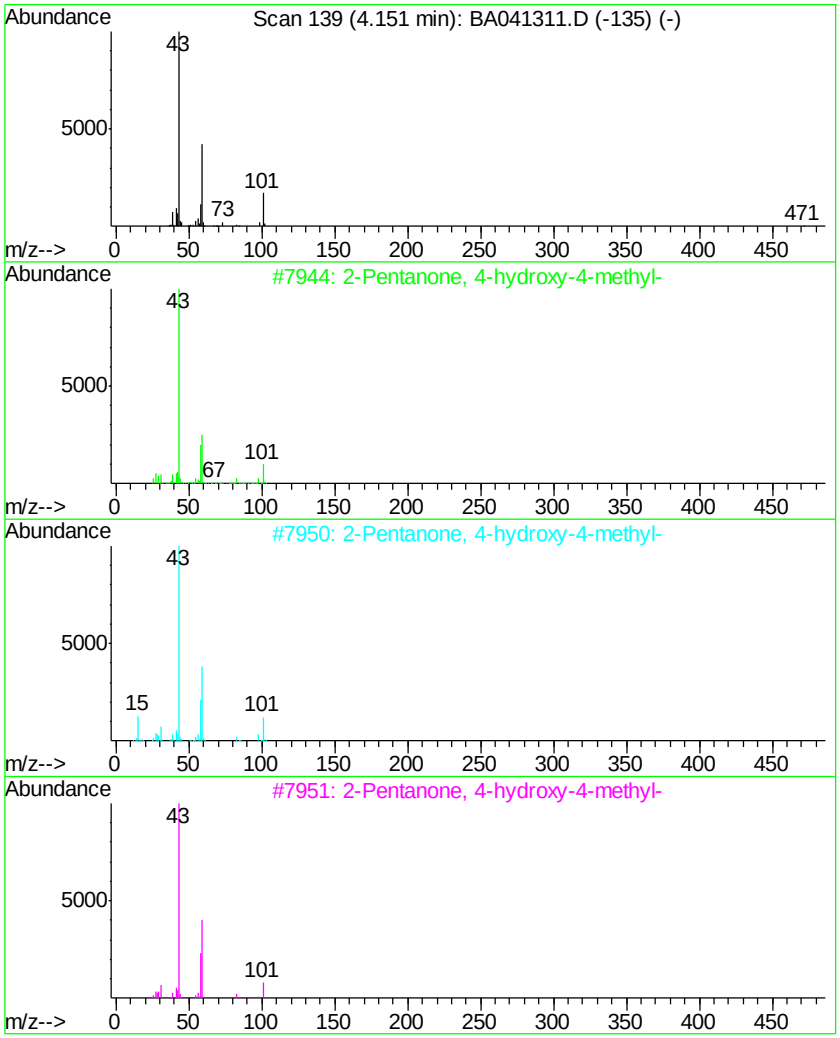
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

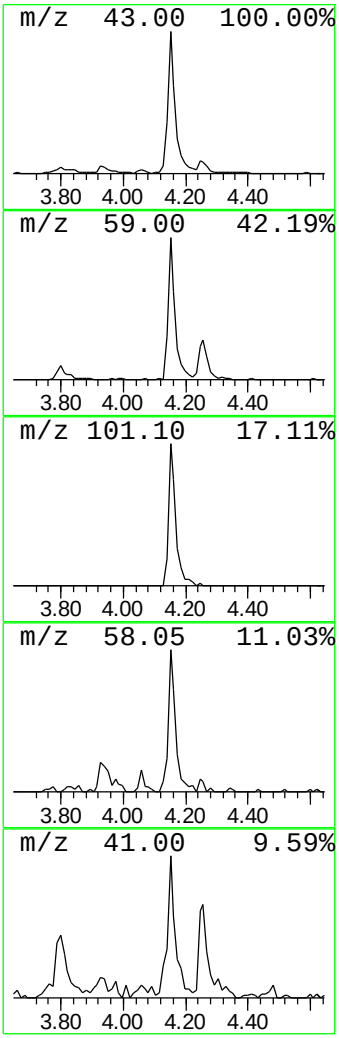
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.15	8.43 ng/ul	673079	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	42
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27
5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

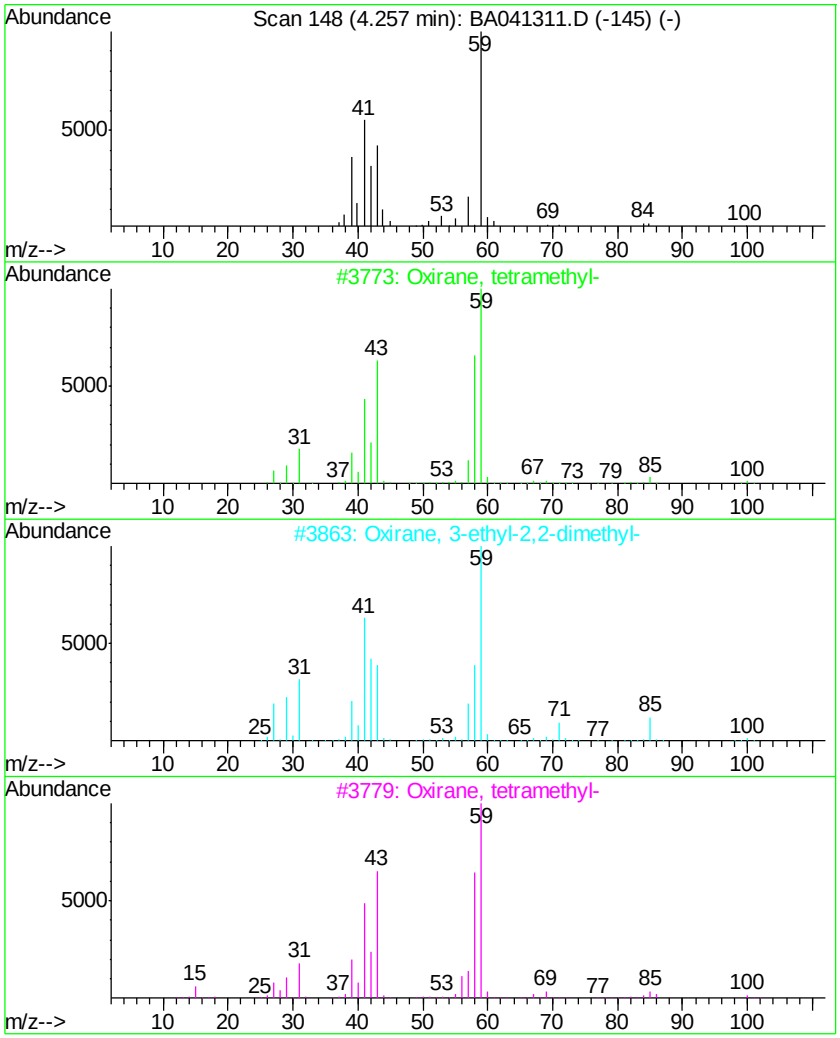
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

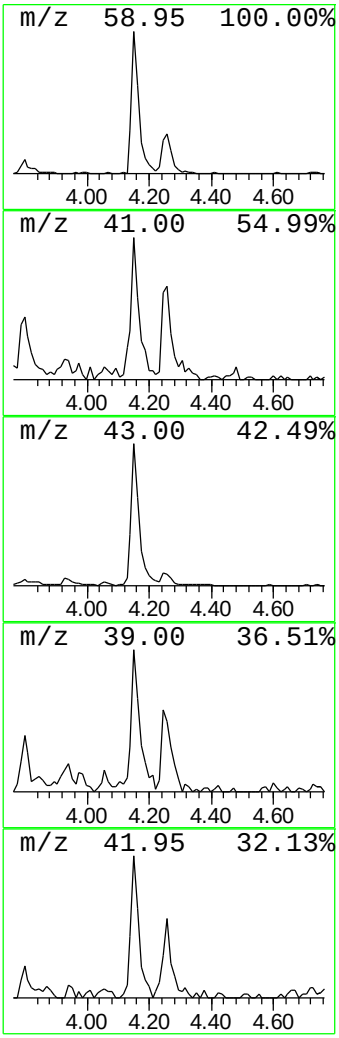
****

Peak Number 5 Oxirane, tetramethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.26	2.14 ng/ul	171175	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	72
2	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	64
3	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	50
4	Butanal, oxime	87	C4H9NO	000110-69-0	40
5	Guanidine, monothiocyanate	116	C2H4N4S	056960-89-5	40





Library Search Compound Report

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Data File : BA041311.D
Acq On    : 20 Oct 2008   5:39
Operator  : QM
Sample    : Z4920-03
Misc      :
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

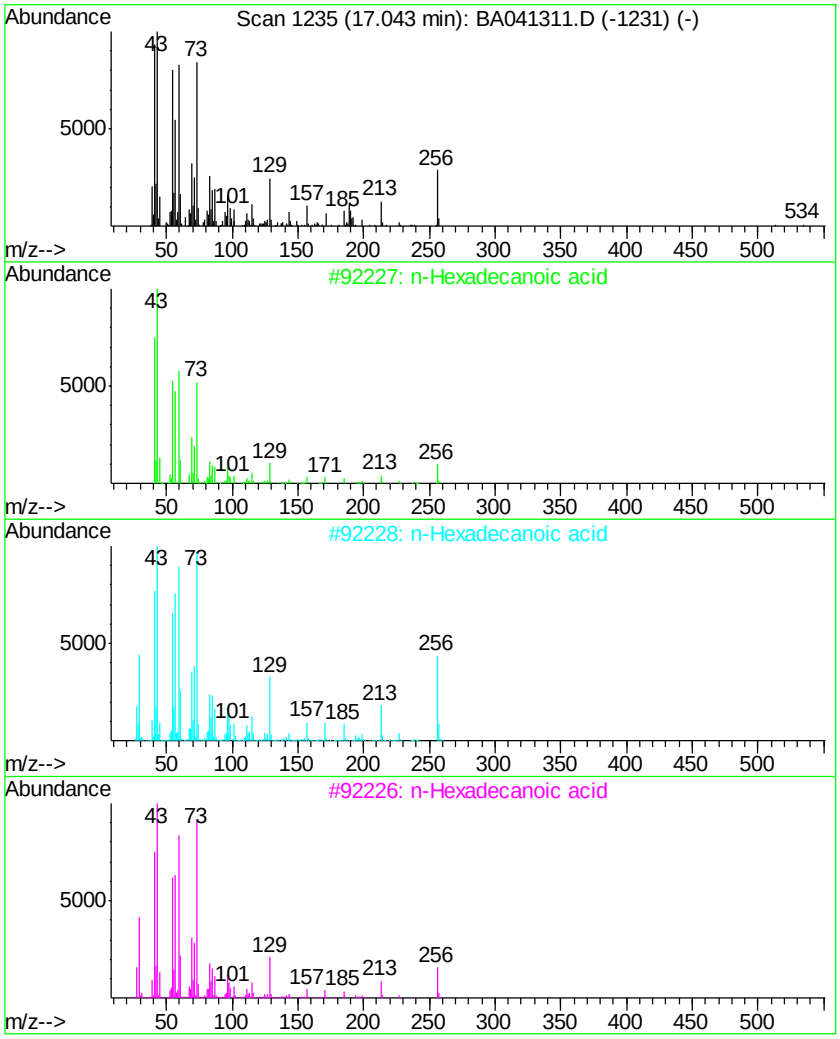
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

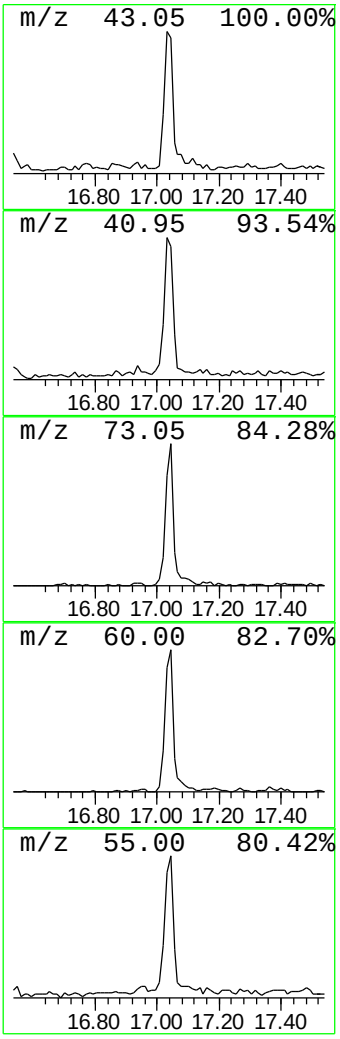
****

Peak Number 6 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.04	7.17 ng/ul	883833	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
4	Tridecanoic acid	214	C13H26O2	000638-53-9	83
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	58





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

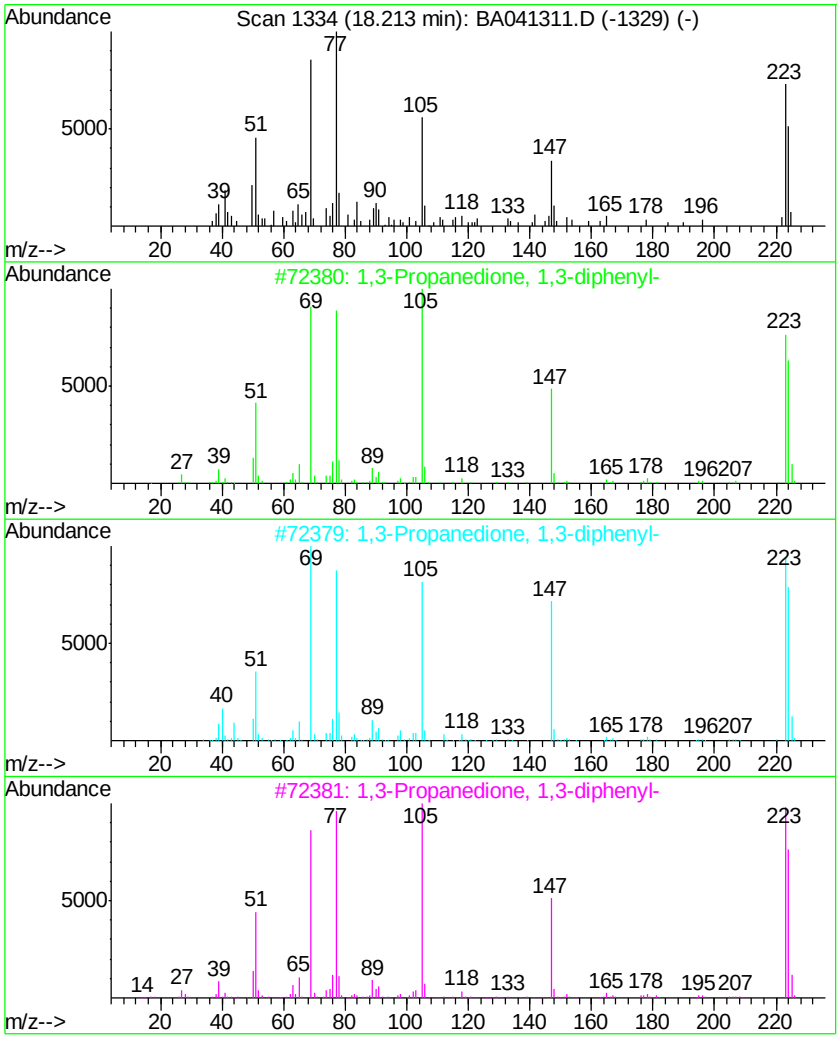
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

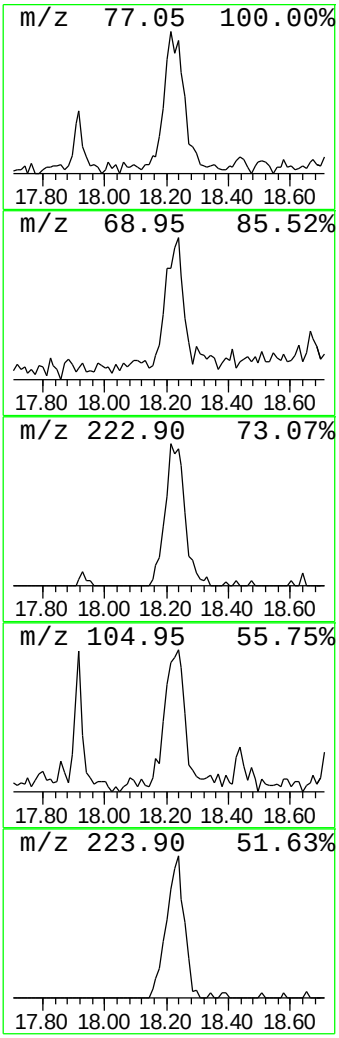
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 1,3-Propanedione, 1,3-diphe... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.21	3.20 ng/ul	394169	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	93
2	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	93
3	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	93
4	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	93
5	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	90





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

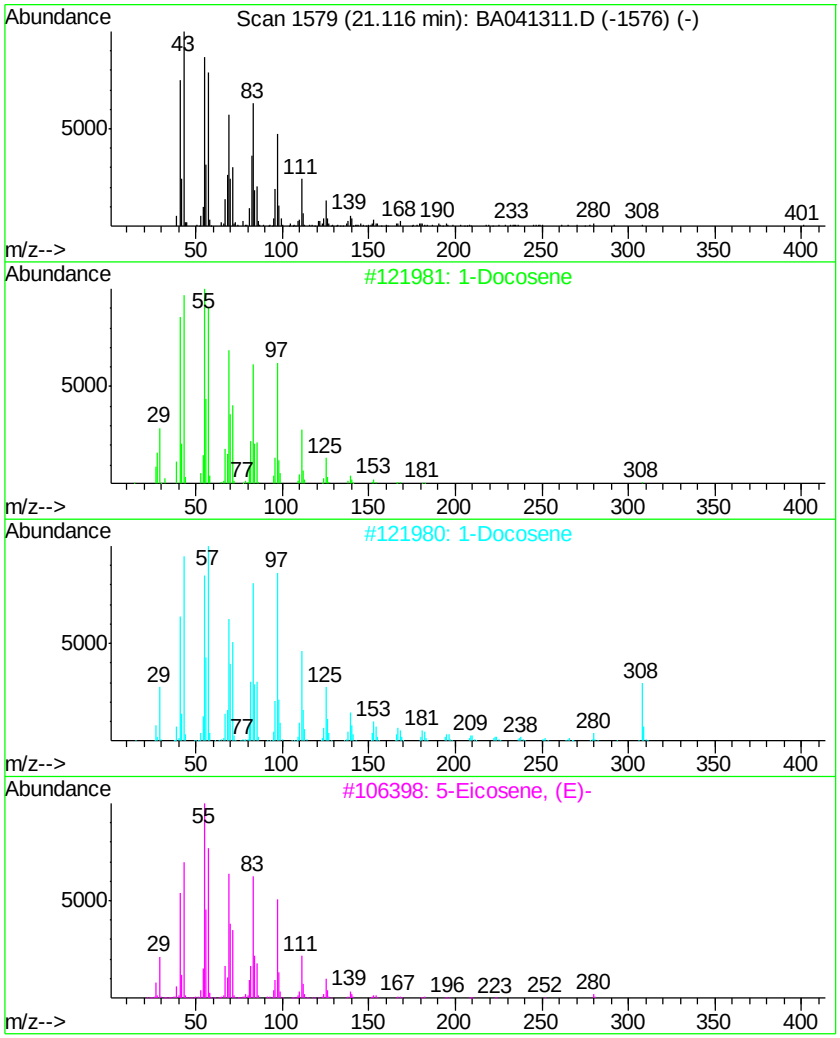
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

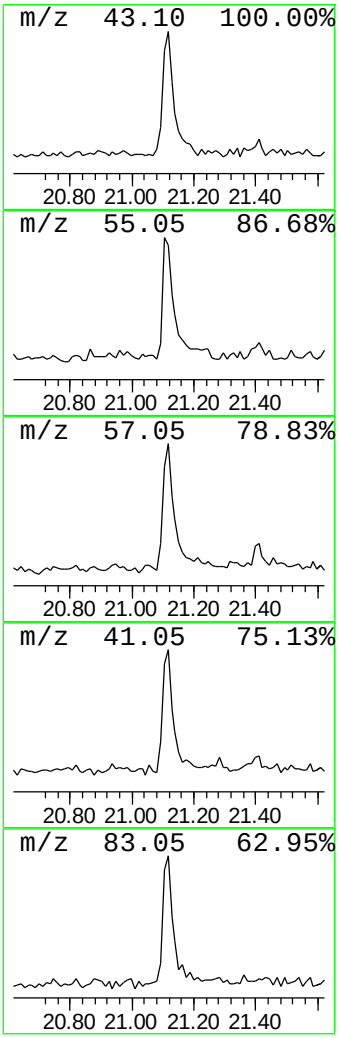
****

Peak Number 8 1-Docosene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.12	12.78 ng/ul	1336160	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	99
2	1-Docosene	308	C22H44	001599-67-3	97
3	5-Eicosene, (E)-	280	C20H40	074685-30-6	96
4	1-Eicosene	280	C20H40	003452-07-1	94
5	1-Eicosanol	298	C20H42O	000629-96-9	94





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041311.D
Acq On : 20 Oct 2008 5:39
Operator : QM
Sample : Z4920-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown2.99	2.99	2.2	ng/ul	173613	1	6.69	1596210	20.0
Methacrylamide	3.07	7.3	ng/ul	581856	1	6.69	1596210	20.0
Oxirane, 2,2-dime...	3.80	2.0	ng/ul	160904	1	6.69	1596210	20.0
2-Pentanone, 4-hy...	4.15	8.4	ng/ul	673079	1	6.69	1596210	20.0
Oxirane, tetramet...	4.26	2.1	ng/ul	171175	1	6.69	1596210	20.0
n-Hexadecanoic acid	17.04	7.2	ng/ul	883833	4	15.77	2465060	20.0
1,3-Propanedione,...	18.21	3.2	ng/ul	394169	4	15.77	2465060	20.0
1-Docosene	21.12	12.8	ng/ul	1336160	5	21.32	2091100	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2-2

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-04

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041313.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.89 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	39	J
108-95-2	Phenol	47	J
111-44-4	Bis(2-chloroethyl)ether	100	U
95-57-8	2-Chlorophenol	100	U
95-48-7	2-Methylphenol	100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	100	U
98-86-2	Acetophenone	180	
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-di-n-propylamine	100	U
67-72-1	Hexachloroethane	100	U
98-95-3	Nitrobenzene	100	U
78-59-1	Isophorone	100	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	100	U
111-91-1	Bis(2-chloroethoxy)methane	100	U
120-83-2	2,4-Dichlorophenol	100	U
91-20-3	Naphthalene	100	U
106-47-8	4-Chloroaniline	100	U
87-68-3	Hexachlorobutadiene	100	U
105-60-2	Caprolactam	100	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
92-52-4	1,1'-Biphenyl	100	U
91-58-7	2-Chloronaphthalene	100	U
88-74-4	2-Nitroaniline	190	U
131-11-3	Dimethylphthalate	100	U
606-20-2	2,6-Dinitrotoluene	100	U
208-96-8	Acenaphthylene	100	U
99-09-2	3-Nitroaniline	190	U
83-32-9	Acenaphthene	100	U
51-28-5	2,4-Dinitrophenol	190	U
100-02-7	4-Nitrophenol	190	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2-2

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-04

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041313.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.89 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	100	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
86-73-7	Fluorene	100	U
7005-72-3	4-Chlorophenyl-phenylether	100	U
100-01-6	4-Nitroaniline	190	U
534-52-1	4,6-Dinitro-2-methylphenol	190	U
86-30-6	N-Nitrosodiphenylamine[1]	100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U
101-55-3	4-Bromophenyl-phenylether	100	U
118-74-1	Hexachlorobenzene	100	U
1912-24-9	Atrazine	100	U
87-86-5	Pentachlorophenol	190	U
85-01-8	Phenanthrene	54	J
120-12-7	Anthracene	100	U
86-74-8	Carbazole	100	U
84-74-2	Di-n-butylphthalate	160	
206-44-0	Fluoranthene	160	
129-00-0	Pyrene	180	
85-68-7	Butylbenzylphthalate	100	
91-94-1	3,3'-Dichlorobenzidine	100	U
56-55-3	Benzo(a)anthracene	110	
218-01-9	Chrysene	130	
117-81-7	Bis(2-ethylhexyl)phthalate	1500	B
117-84-0	Di-n-octylphthalate	100	U
205-99-2	Benzo(b)fluoranthene	170	
207-08-9	Benzo(k)fluoranthene	75	J
50-32-8	Benzo(a)pyrene	110	
193-39-5	Indeno(1,2,3-cd)pyrene	46	J
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U
58-90-2	2,3,4,6-Tetrachlorophenol	100	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC2-2

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4920-04

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041313.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 15.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.89 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

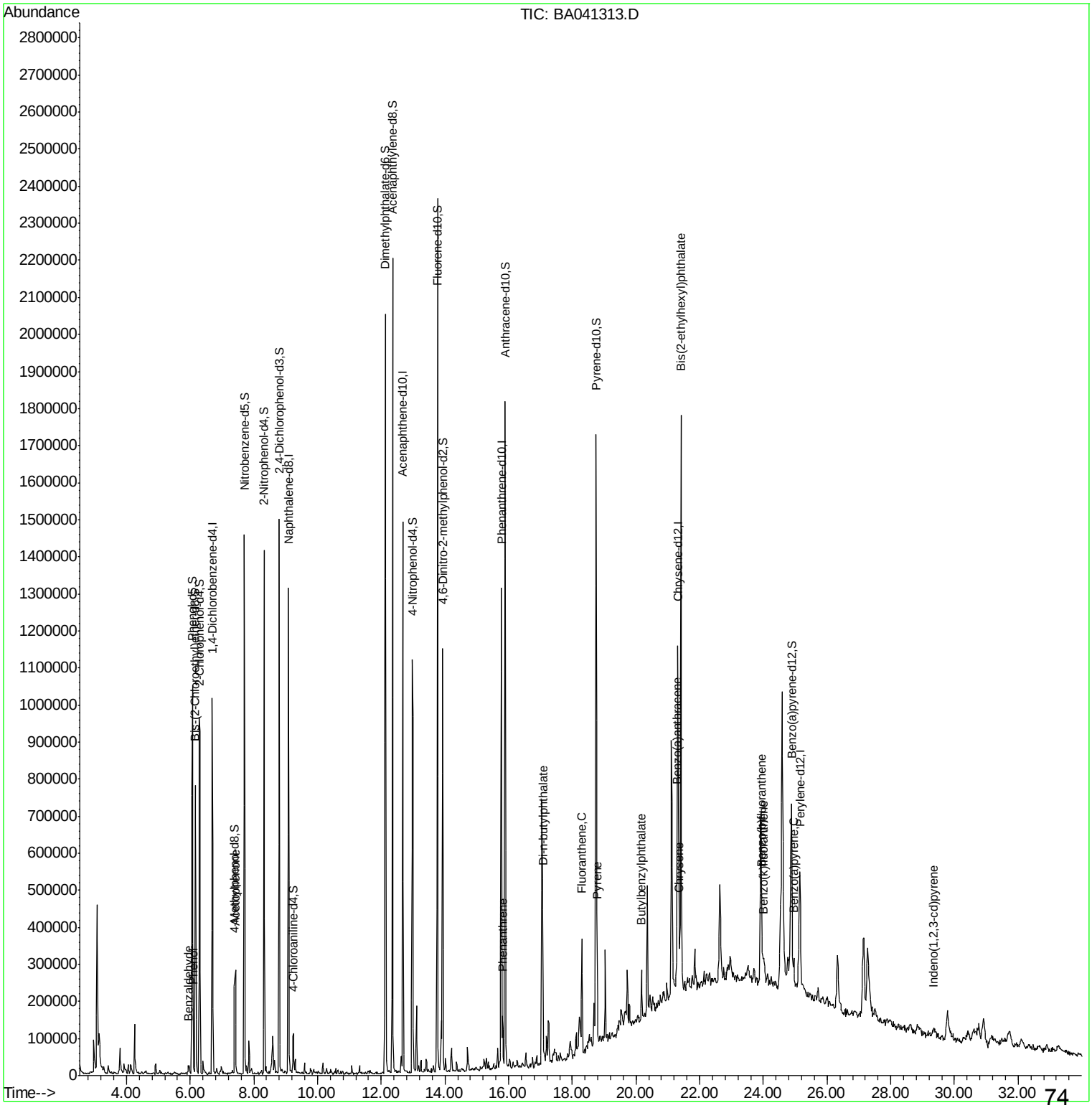
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.		unknown2.98	2.98	99	J
02.	79-39-0	Methacrylamide	3.07	460	JN
03.		unknown3.14	3.14	160	J
04.		unknown3.79	3.79	90	J
05.	56960-89-5	Guanidine, monothiocyanate	4.26	130	JN
06.	1000253-25-3	Cyclobutane-1,1-dicarboxamide,	8.60	120	JN
07.		unknown13.11	13.11	92	J
08.		unknown17.25	17.25	97	J
09.	120-46-7	1,3-Propanedione, 1,3-diphenyl-	18.23	130	JN
10.	57-11-4	Octadecanoic acid	18.68	80	JN
11.	72-55-9	p,p-DDE	19.03	150	JN
12.	53-19-0	Mitotane	19.73	88	JN
13.	50-29-3	p,p-DDT	20.36	240	JN
14.	1599-67-3	1-Docosene	21.11	580	JN
15.		unknown21.84	21.84	80	J
16.	4860-03-1	Hexadecane, 1-chloro-	22.63	310	JN
17.	56221-91-1	13-Tetradecen-1-ol acetate	24.59	1500	JN
18.	7098-22-8	Tetratetracontane	27.15	450	JN
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 20 12:47:57 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

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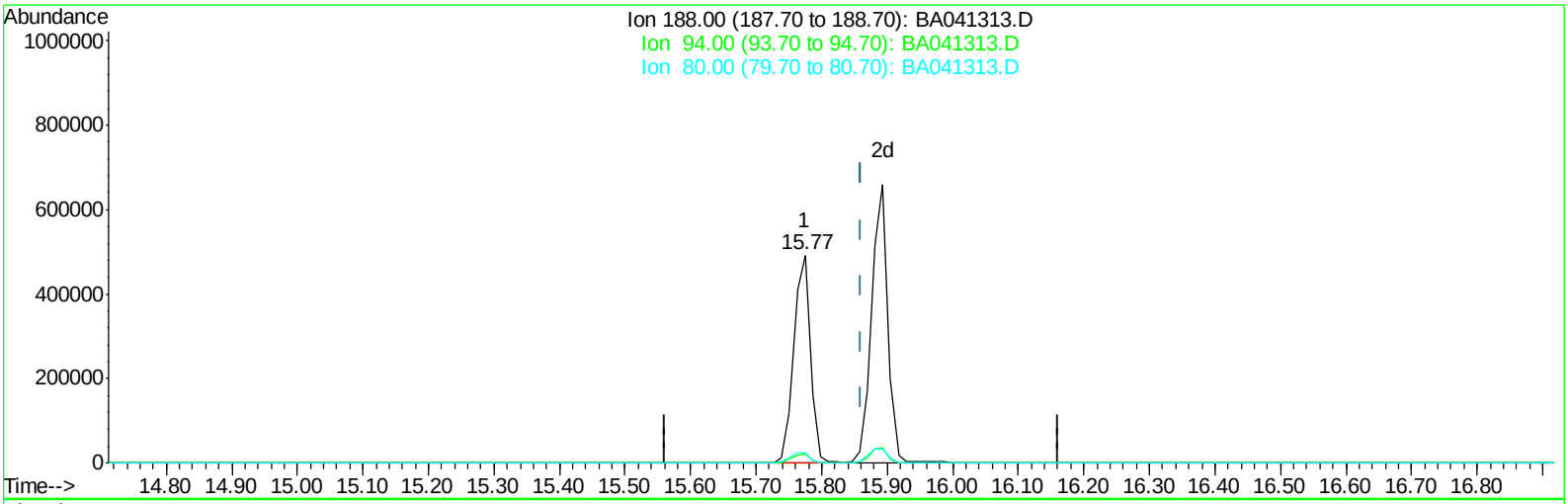
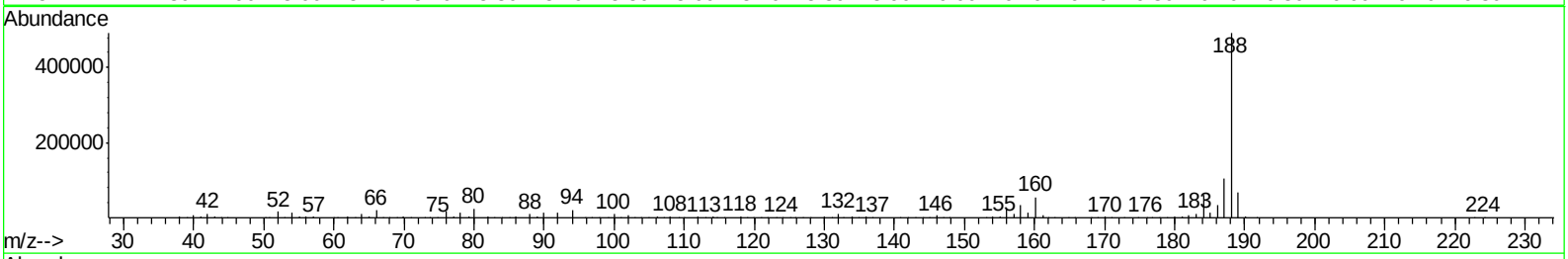
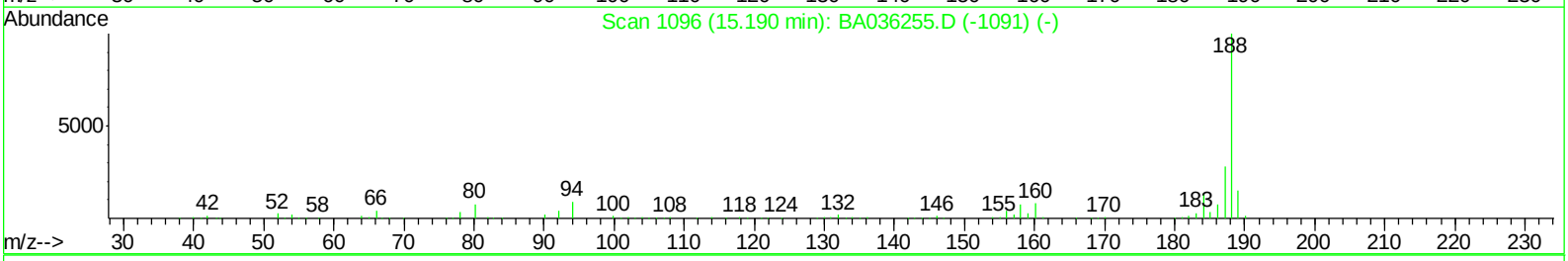
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 20 11:30:15 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041313.D

(68) Anthracene-d10 (S)

15.775min (-0.087) 20.89ng/ul

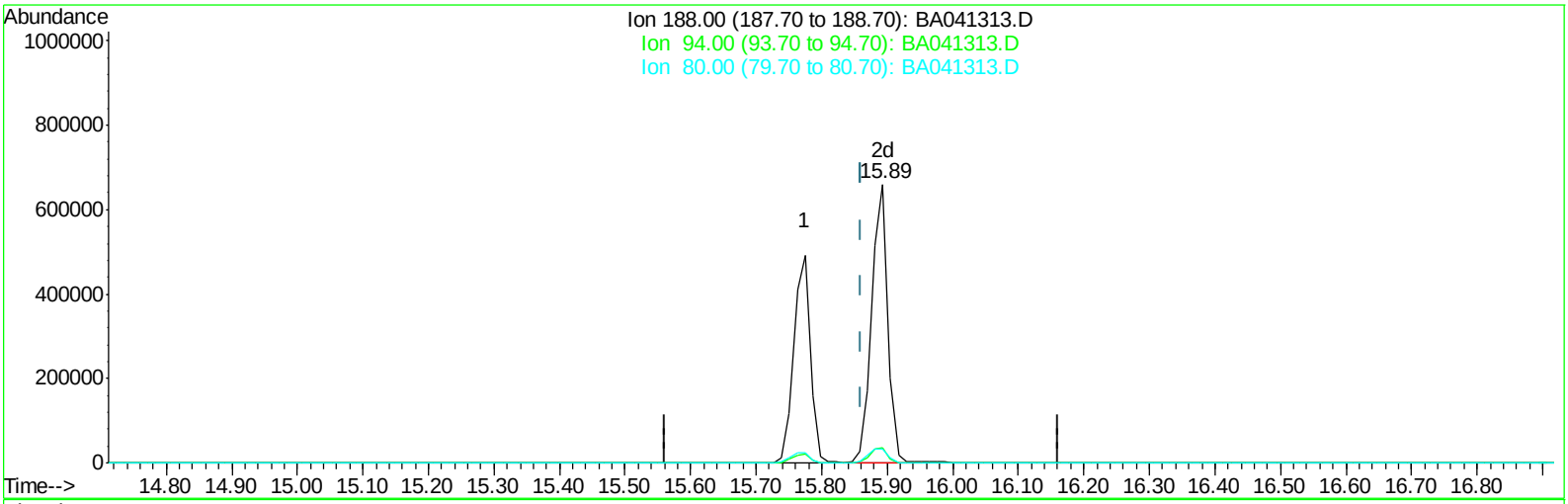
response 862614

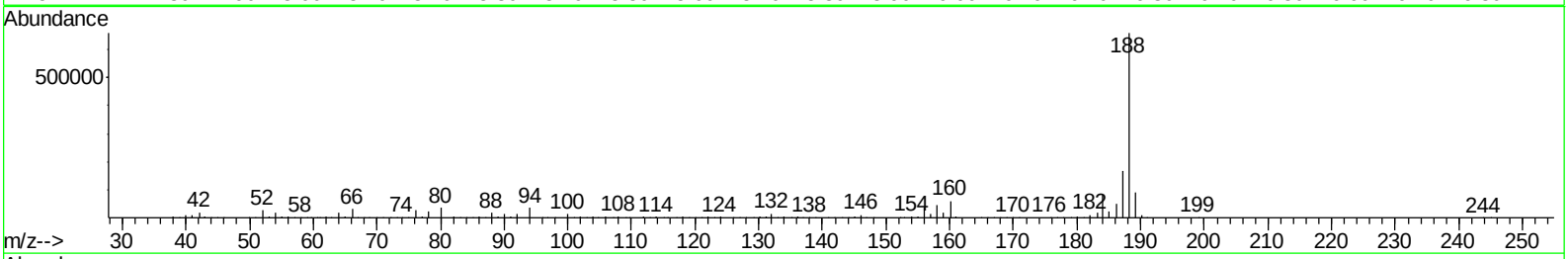
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.35
80.00	4.20	4.92
0.00	0.00	0.00

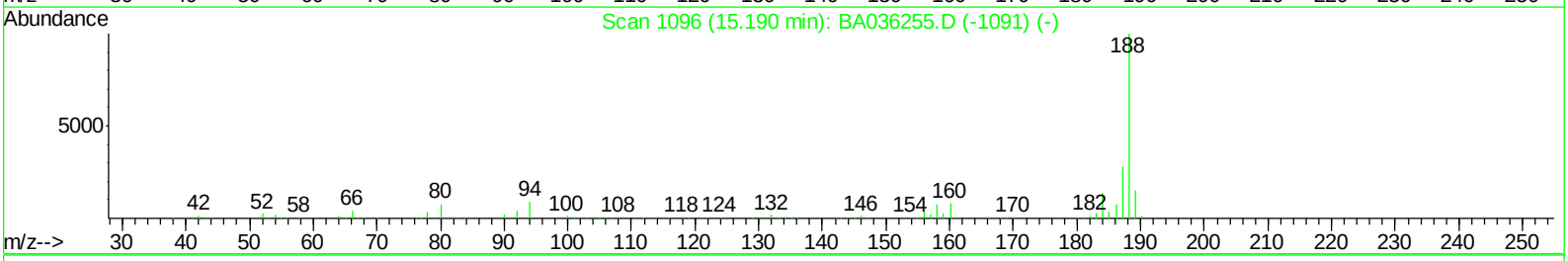
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 20 11:30:15 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041313.D

(68) Anthracene-d10 (S)

15.893min (+0.031) 27.62ng/ul m

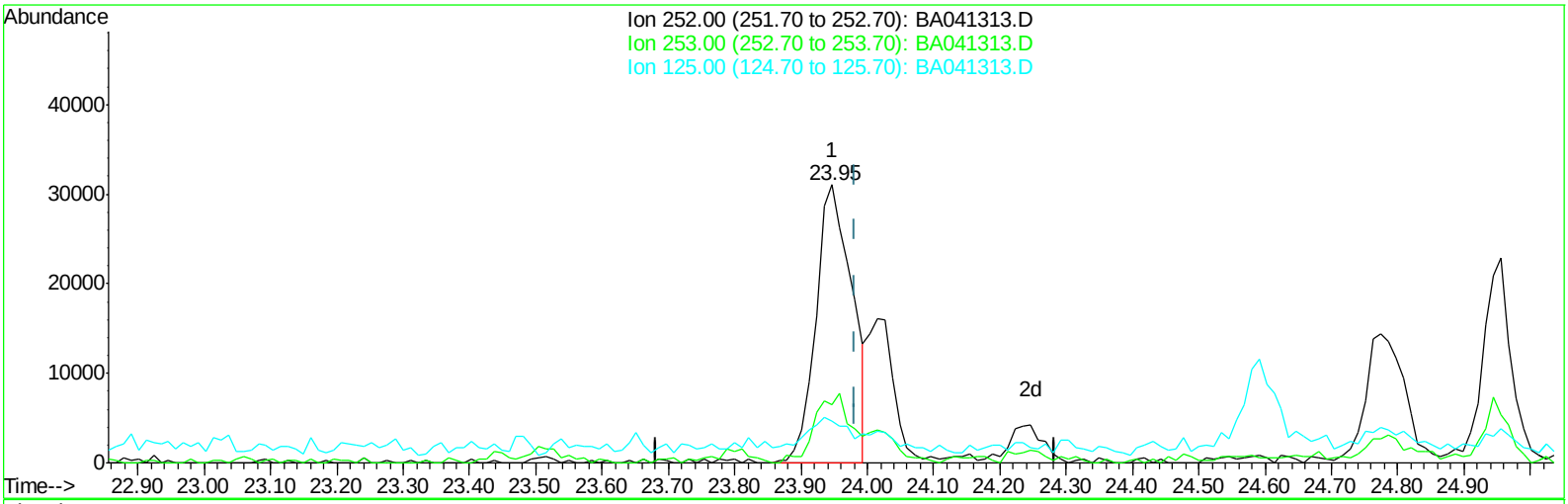
response 1140425

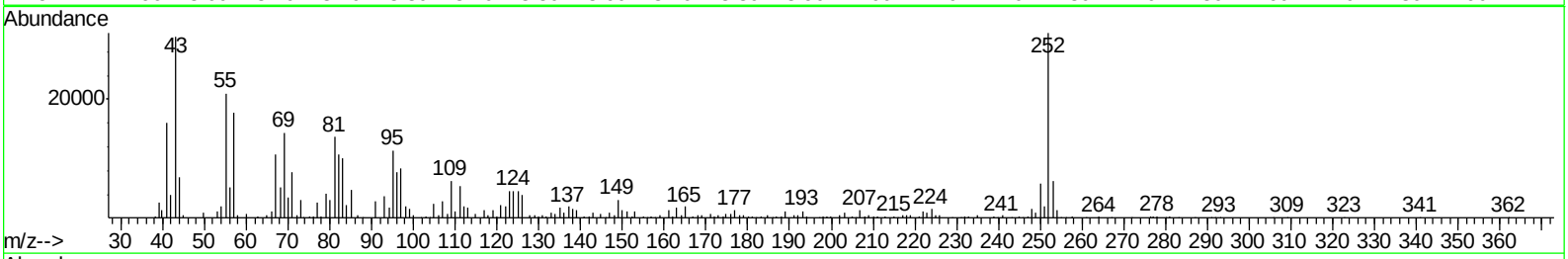
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	5.49#
80.00	4.20	5.23#
0.00	0.00	0.00

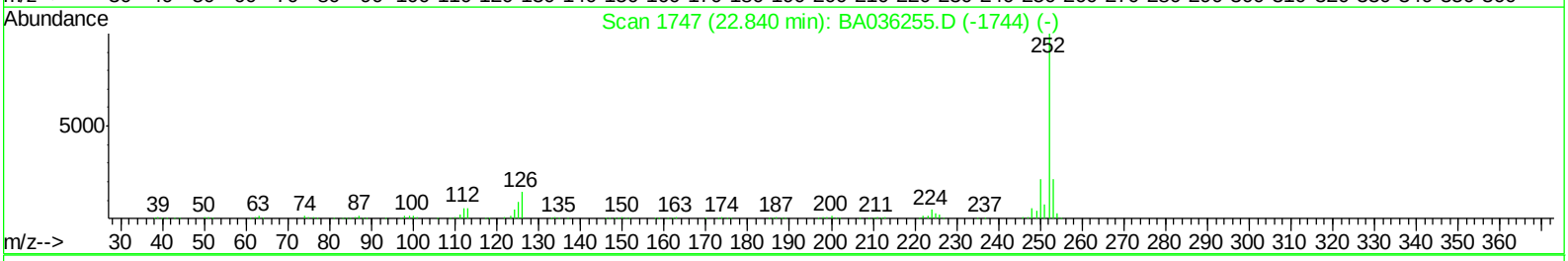
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 20 11:30:15 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







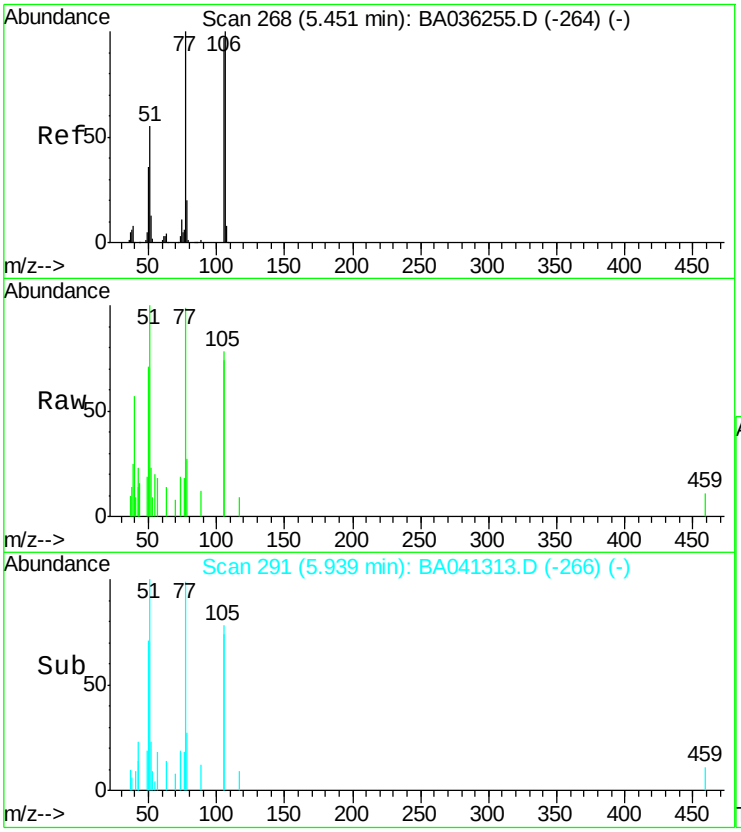
TIC: BA041313.D

(84) Benzo(k)fluoranthene

23.947min (-0.036) 5.02ng/ul

response 116323

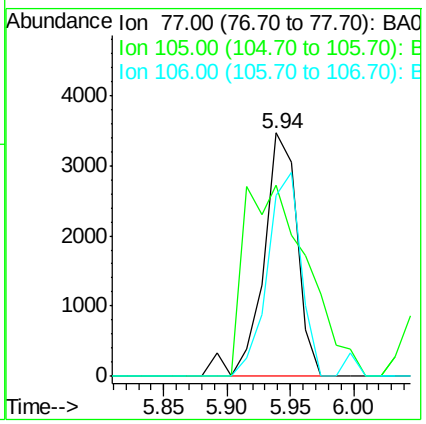
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	20.76
125.00	4.40	15.04#
0.00	0.00	0.00

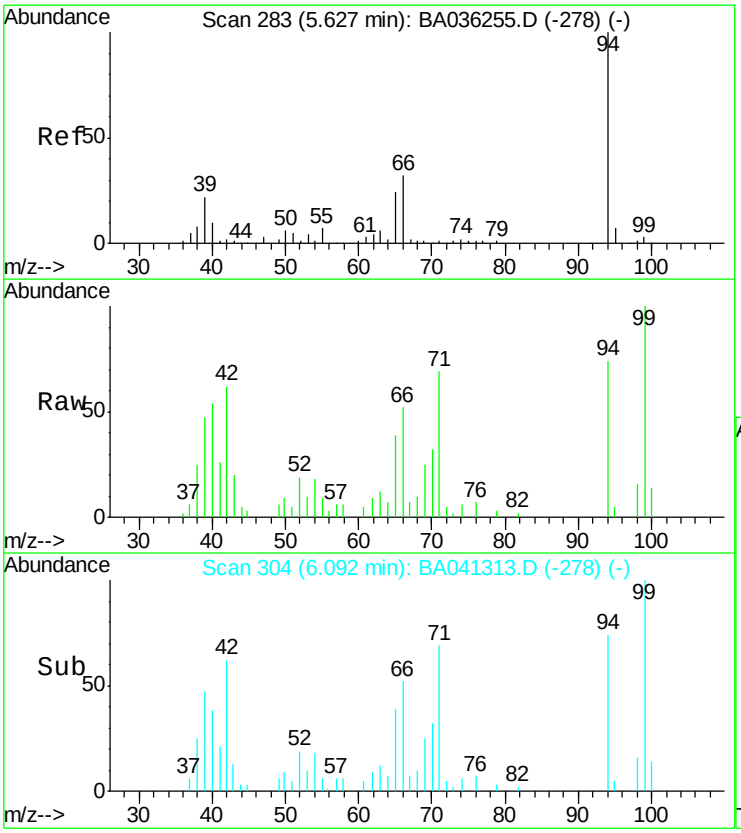


#2
Benzaldehyde
Concen: 1.00 ng/ul
RT: 5.94 min Scan# 291
Delta R.T. -0.00 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion: 77 Resp: 6489

Ion	Ratio	Lower	Upper
77	100		
105	78.4	69.6	104.4
106	74.1	67.9	101.9

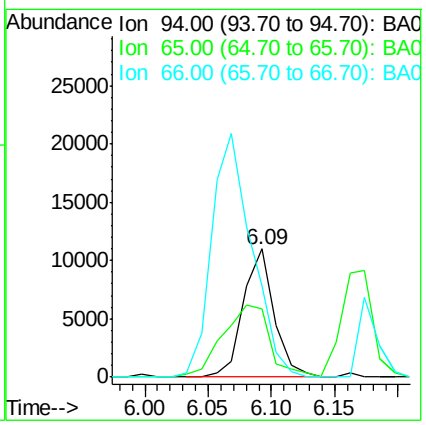


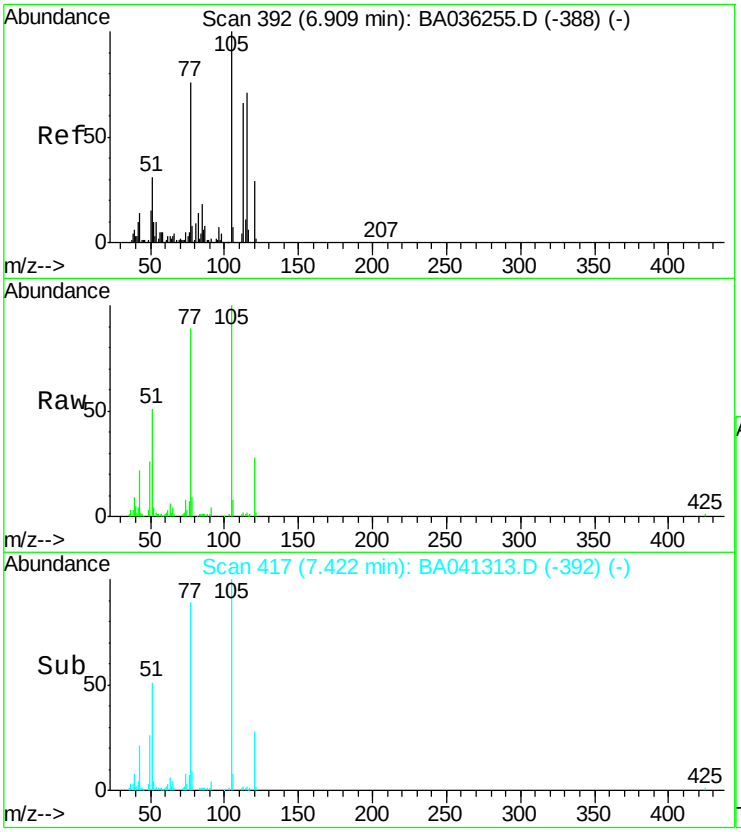


#4
Phenol
Concen: 1.19 ng/ul
RT: 6.09 min Scan# 304
Delta R.T. 0.01 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion: 94 Resp: 18671

Ion	Ratio	Lower	Upper
94	100		
65	53.6	29.0	43.6#
66	70.9	53.7	80.5

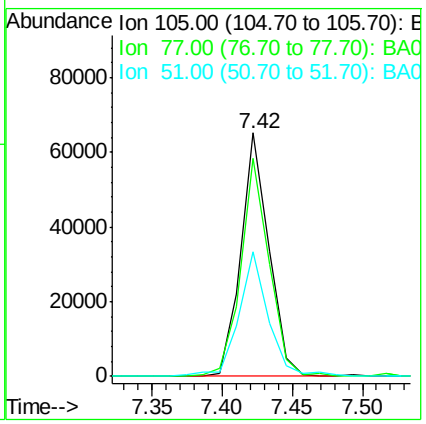


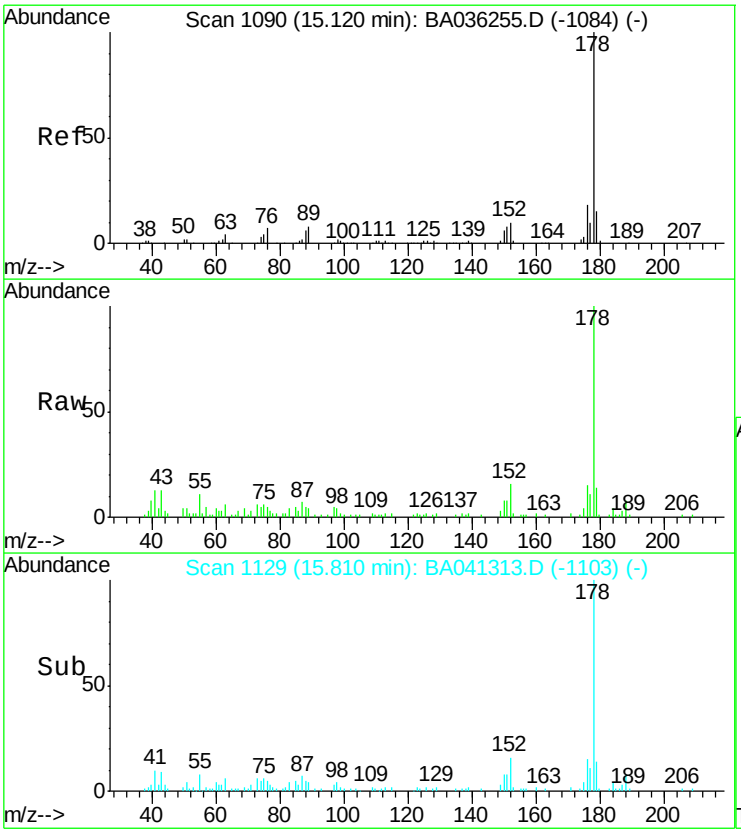


#12
Acetophenone
Concen: 4.69 ng/ul
RT: 7.42 min Scan# 417
Delta R.T. -0.00 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:105 Resp: 90260

Ion	Ratio	Lower	Upper
105	100		
77	89.4	69.4	104.2
51	51.0	42.1	63.1

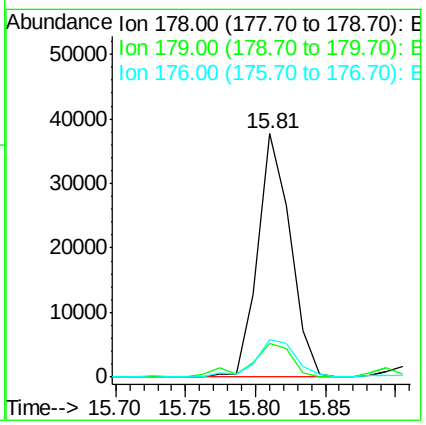


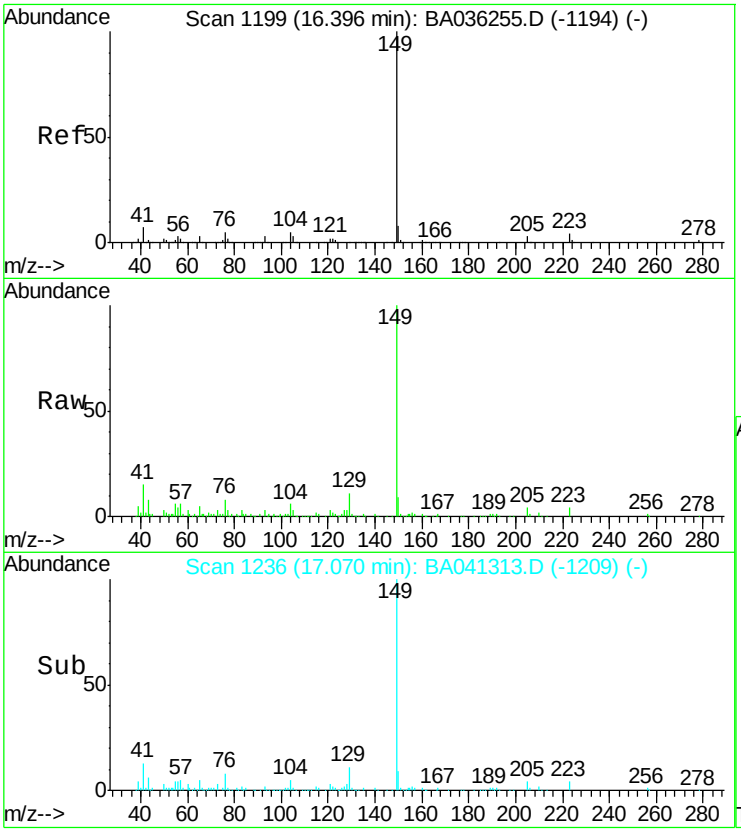


#67
Phenanthrene
Concen: 1.39 ng/ul
RT: 15.81 min Scan# 1129
Delta R.T. 0.01 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:178 Resp: 61117

Ion	Ratio	Lower	Upper
178	100		
179	13.7	12.0	18.0
176	15.2	14.8	22.2

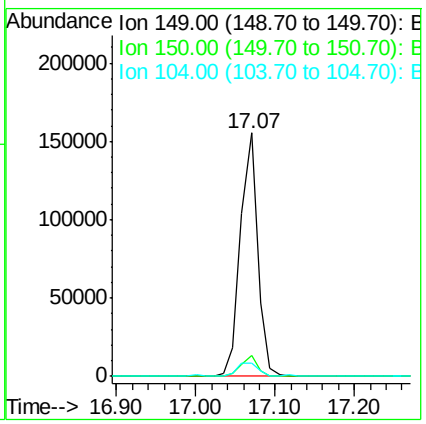


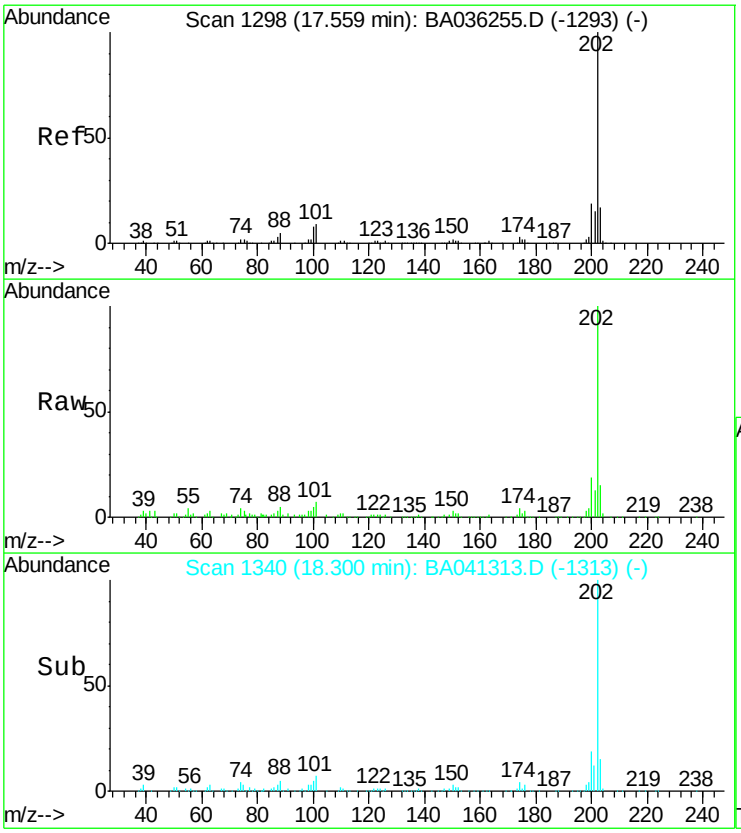


#71
Di-n-butylphthalate
Concen: 4.14 ng/ul
RT: 17.07 min Scan# 1236
Delta R.T. 0.02 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:149 Resp: 237208

Ion	Ratio	Lower	Upper
149	100		
150	8.5	7.9	11.9
104	5.6	5.6	8.4

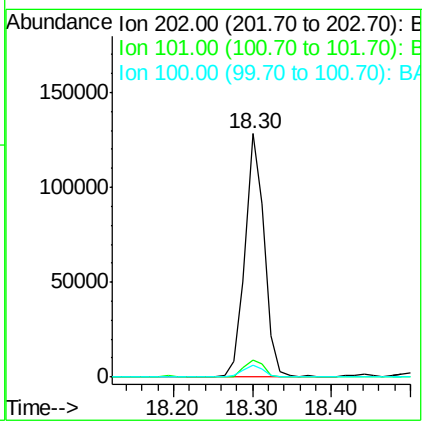


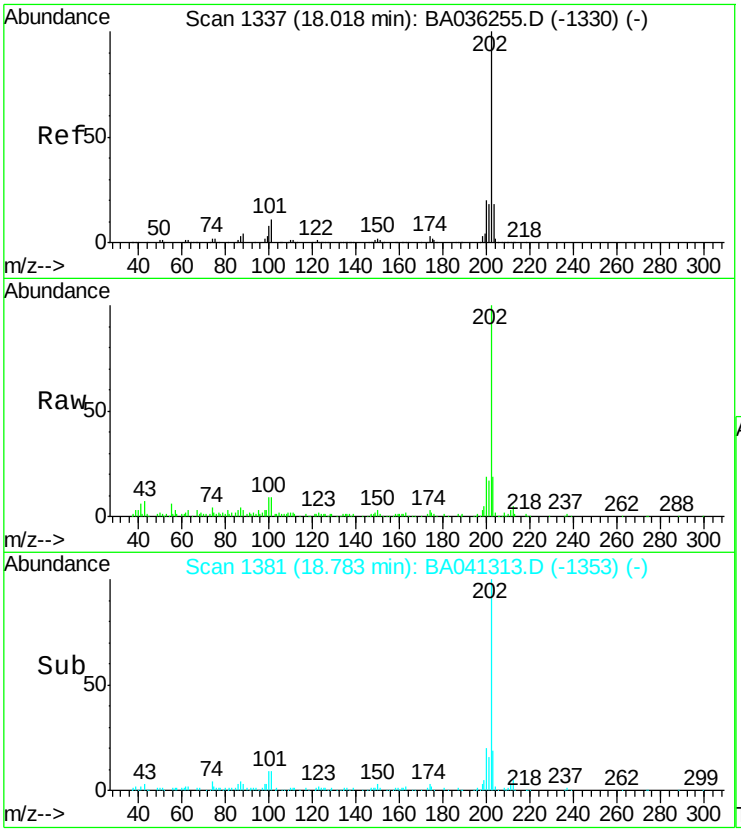


#72
Fluoranthene
Concen: 4.19 ng/ul
RT: 18.30 min Scan# 1340
Delta R.T. 0.02 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:202 Resp: 218689

Ion	Ratio	Lower	Upper
202	100		
101	7.2	2.6	4.0#
100	5.0	2.9	4.3#

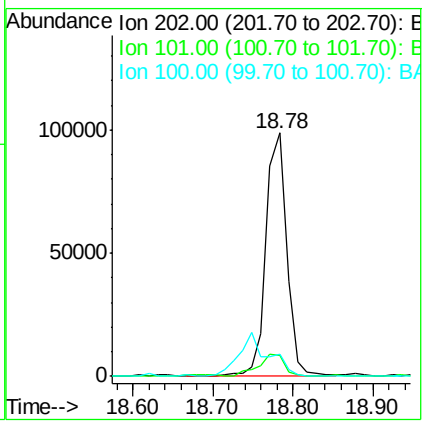


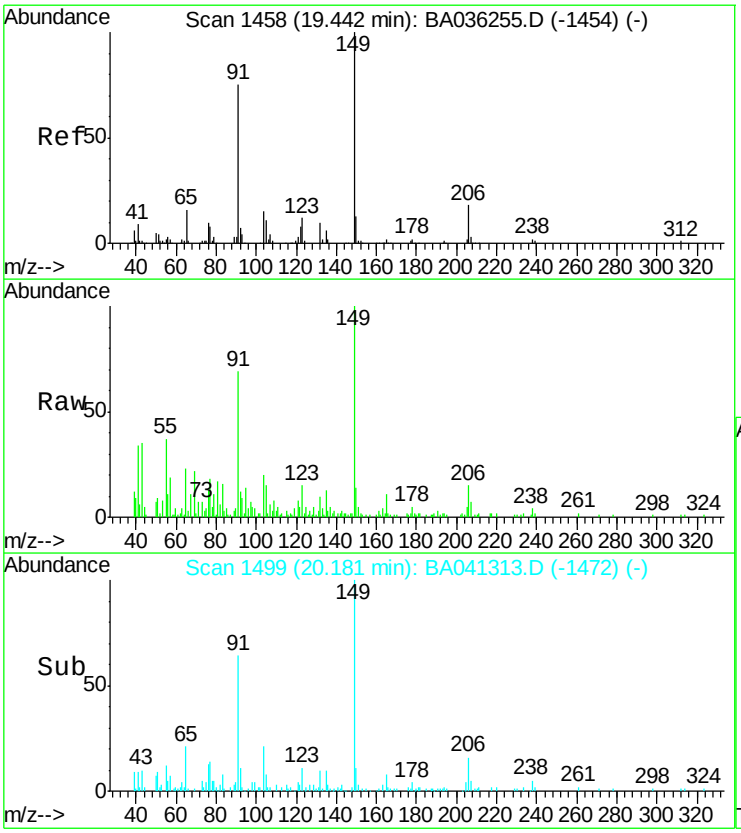


#75
Pyrene
Concen: 4.62 ng/ul
RT: 18.78 min Scan# 1381
Delta R.T. 0.03 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:202 Resp: 176905

Ion	Ratio	Lower	Upper
202	100		
101	8.6	3.5	5.3#
100	9.1	3.4	5.0#

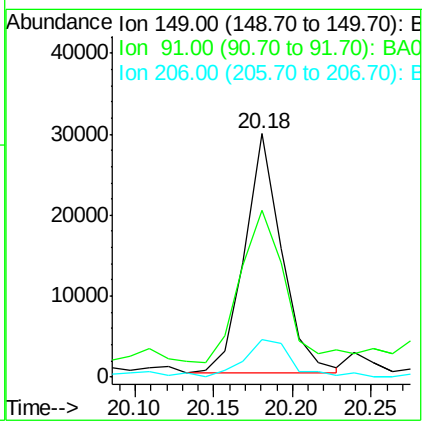


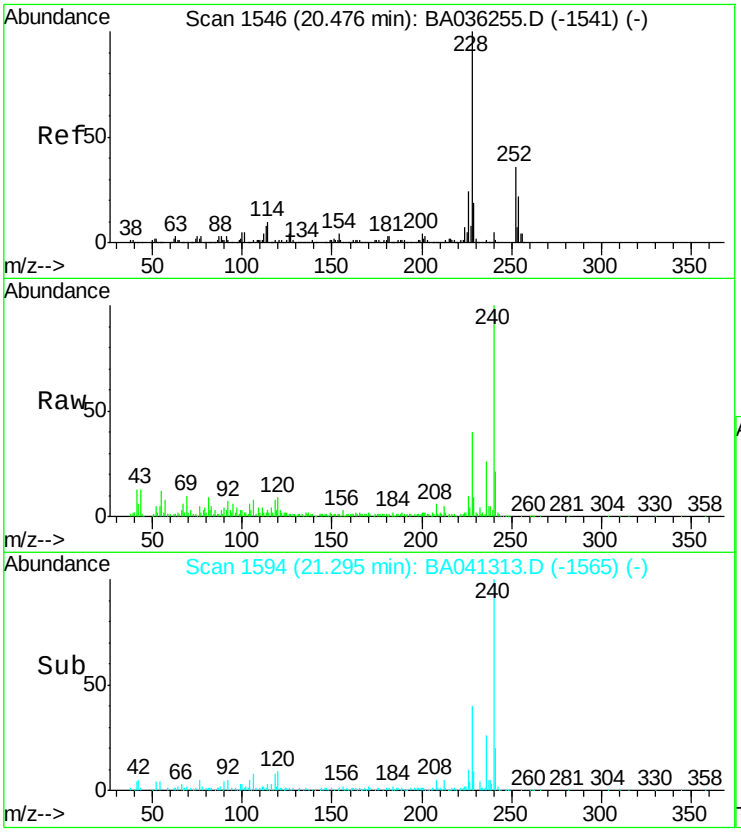


#76
Butylbenzylphthalate
Concen: 2.58 ng/ul
RT: 20.18 min Scan# 1499
Delta R.T. 0.02 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:149 Resp: 47859

Ion	Ratio	Lower	Upper
149	100		
91	68.7	57.6	86.4
206	15.4	14.6	21.8

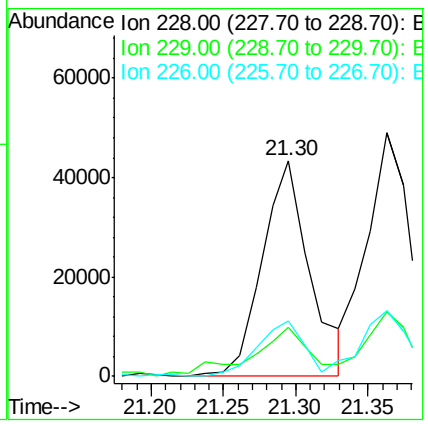


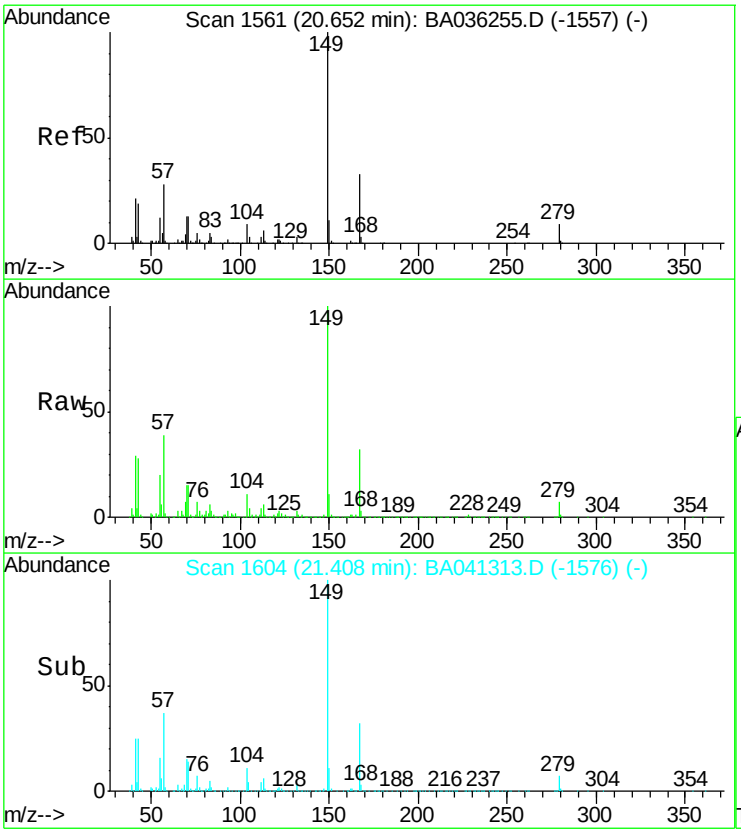


#78
Benzo(a)anthracene
Concen: 2.75 ng/ul
RT: 21.30 min Scan# 1594
Delta R.T. 0.03 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:228 Resp: 100871

Ion	Ratio	Lower	Upper
228	100		
229	23.0	15.9	23.9
226	25.7	20.2	30.2

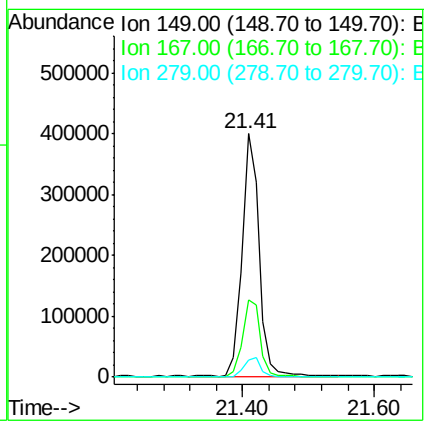


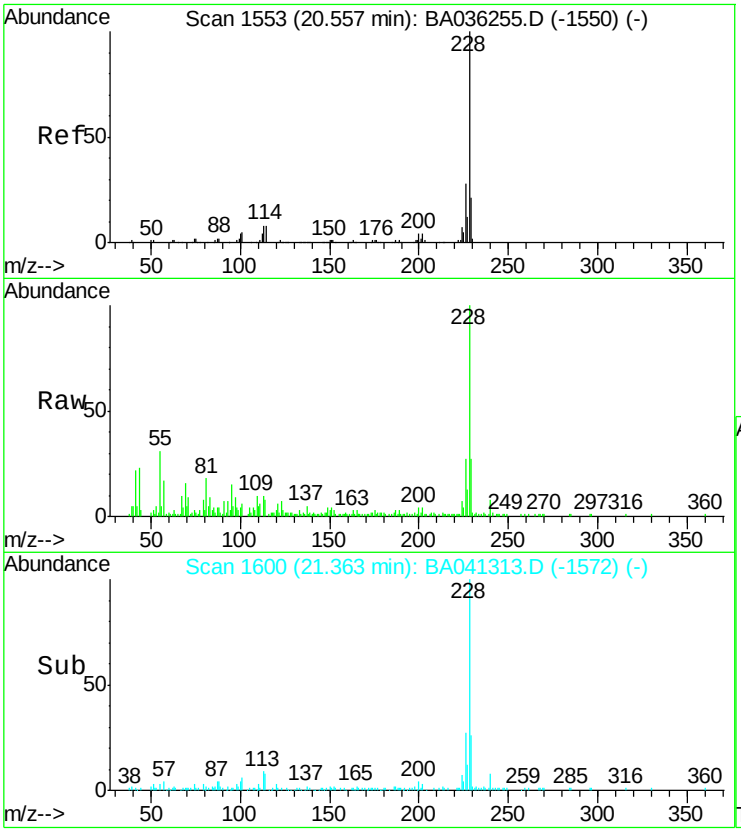


#79
Bis(2-ethylhexyl)phthalate
Concen: 37.21 ng/ul
RT: 21.41 min Scan# 1604
Delta R.T. 0.03 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:149 Resp: 722625

Ion	Ratio	Lower	Upper
149	100		
167	31.7	26.2	39.4
279	6.9	7.7	11.5#

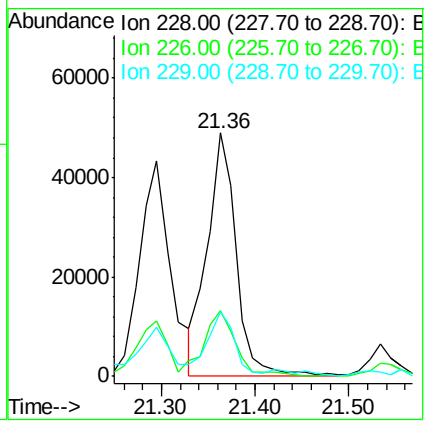


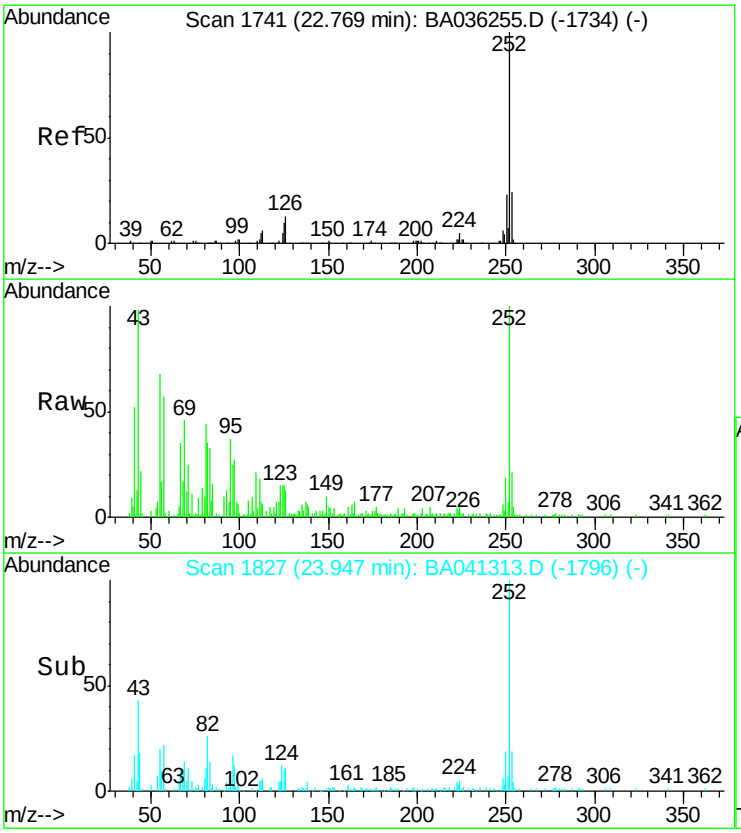


#80
Chrysene
Concen: 3.43 ng/ul
RT: 21.36 min Scan# 1600
Delta R.T. 0.02 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:228 Resp: 106557

Ion	Ratio	Lower	Upper
228	100		
226	26.8	20.6	31.0
229	26.7	14.4	21.6#

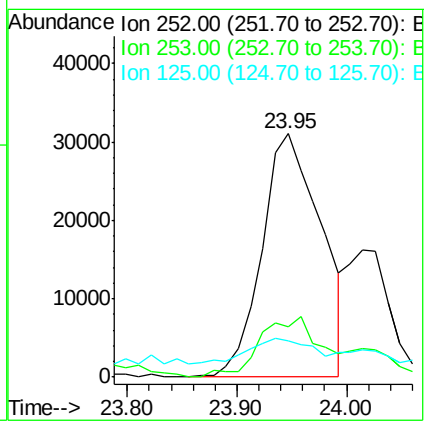


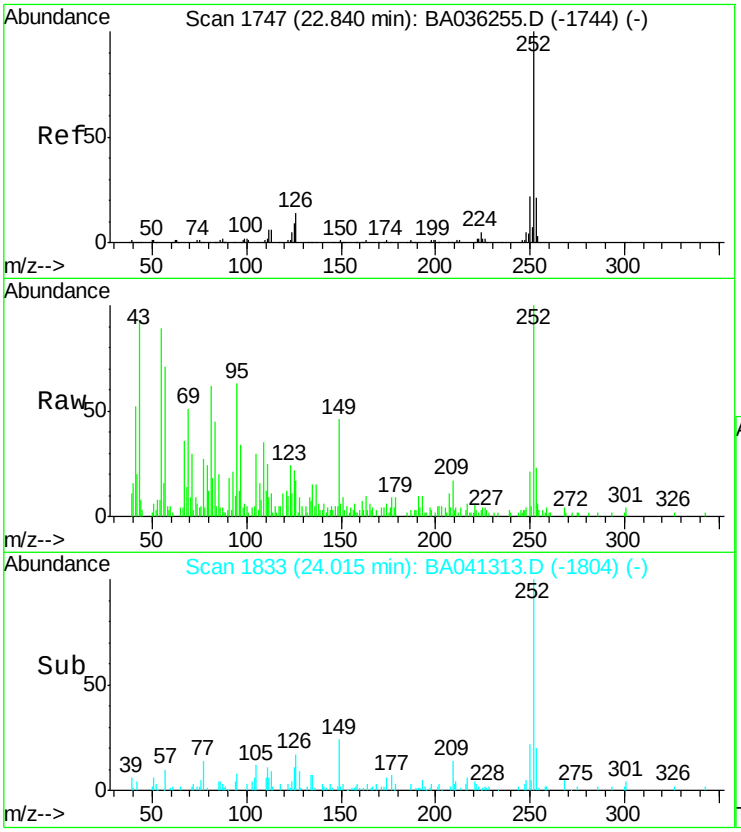


#83
Benzo(b)fluoranthene
Concen: 4.27 ng/ul
RT: 23.95 min Scan# 1827
Delta R.T. 0.05 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:252 Resp: 116323

Ion	Ratio	Lower	Upper
252	100		
253	20.8	16.2	24.2
125	15.0	4.1	6.1#

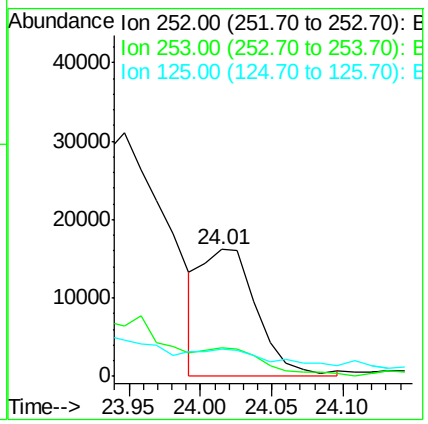


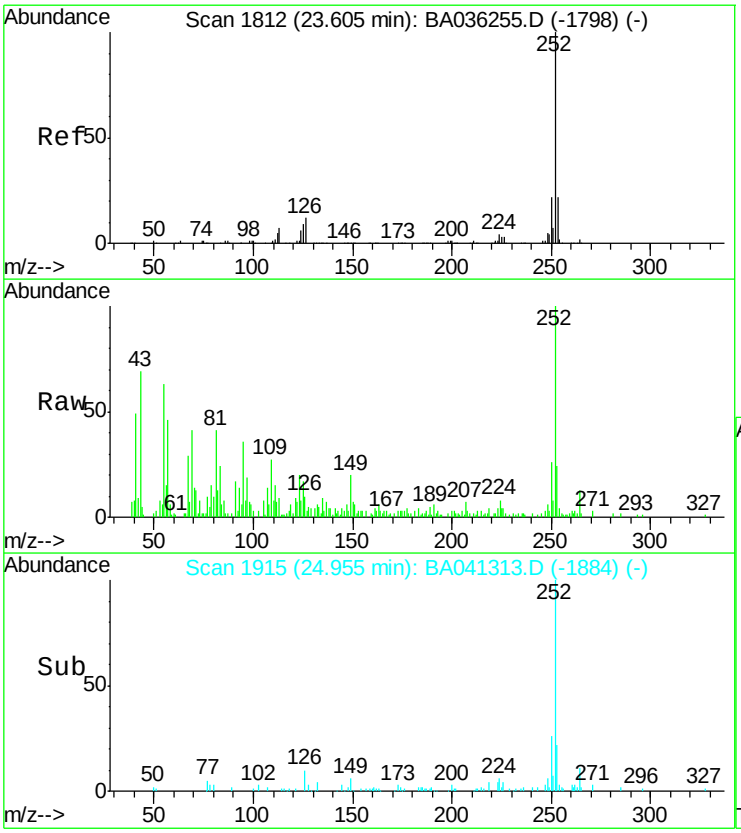


#84
Benzo(k)fluoranthene
Concen: 1.91 ng/ul m
RT: 24.01 min Scan# 1833
Delta R.T. 0.03 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:252 Resp: 44312

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.4
125	21.8	3.5	5.3#

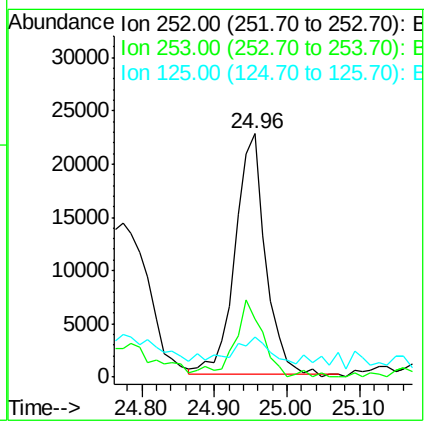


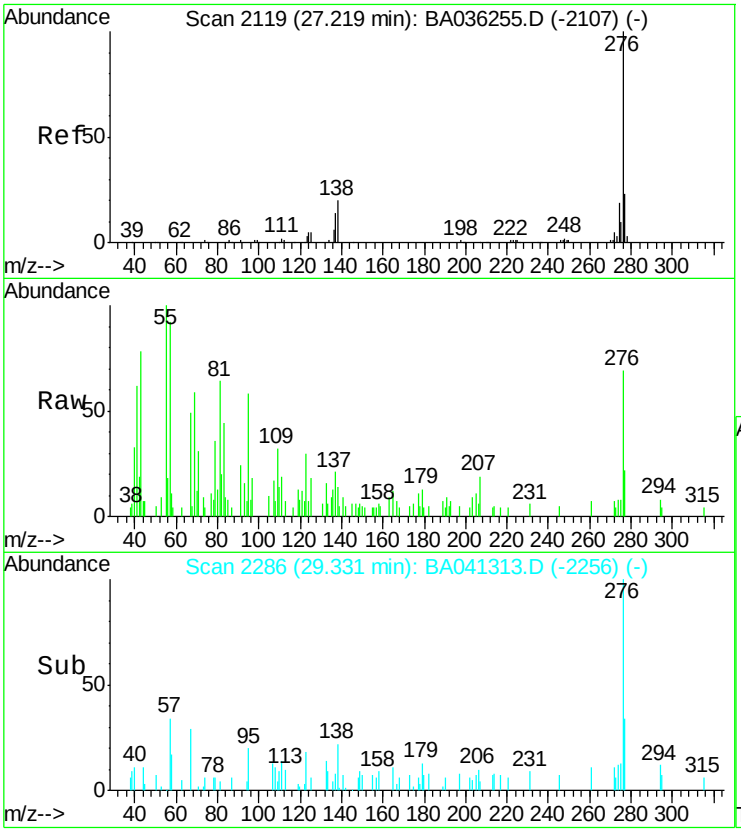


#86
Benzo(a)pyrene
Concen: 2.82 ng/ul
RT: 24.96 min Scan# 1915
Delta R.T. 0.06 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:252 Resp: 66109

Ion	Ratio	Lower	Upper
252	100		
253	23.7	15.1	22.7#
125	16.7	3.4	5.2#

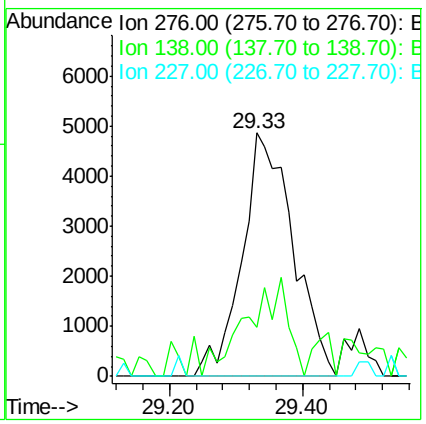




#87
Indeno(1,2,3-cd)pyrene
Concen: 1.17 ng/ul
RT: 29.33 min Scan# 2286
Delta R.T. 0.05 min
Lab File: BA041313.D
Acq: 20 Oct 2008 7:01

Tgt Ion:276 Resp: 25740

Ion	Ratio	Lower	Upper
276	100		
138	20.3	8.2	12.2#
227	0.0	0.0	0.0



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 20 12:47:57 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	239628	20.00	ng/ul	0.01
16) Naphthalene-d8	9.09	136	809137	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.68	164	554709	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.77	188	862614	20.00	ng/ul	0.02
73) Chrysene-d12	21.32	240	690392	20.00	ng/ul	0.03
81) Perylene-d12	25.15	264	416778	20.00	ng/ul	0.07
System Monitoring Compounds						
3) Phenol-d5	6.07	99	394365	27.18	ng/ul	0.01
5) Bis-(2-Chloroethyl)ether-d	6.16	67	332312	33.78	ng/ul	0.00
7) 2-Chlorophenol-d4	6.30	132	380676	30.87	ng/ul	0.01
11) 4-Methylphenol-d8	7.40	113	63216	6.42	ng/ul	0.01
17) Nitrobenzene-d5	7.70	128	236102	32.96	ng/ul	0.01
20) 2-Nitrophenol-d4	8.33	143	282743	32.06	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.80	165	420032	25.74	ng/ul	0.00
27) 4-Chloroaniline-d4	9.23	131	53111	3.29	ng/ul	0.00
41) Dimethylphthalate-d6	12.13	166	1289675	34.91	ng/ul	0.01
44) Acenaphthylene-d8	12.35	160	1492963	33.24	ng/ul	0.01
49) 4-Nitrophenol-d4	12.98	143	269114	35.74	ng/ul	0.01
55) Fluorene-d10	13.77	176	1037126	34.91	ng/ul	0.03
60) 4,6-Dinitro-2-methylphenol	13.93	200	290078	32.50	ng/ul	0.01
68) Anthracene-d10	15.89	188	1140425m	27.62	ng/ul	0.03
74) Pyrene-d10	18.75	212	1103374	36.57	ng/ul	0.03
85) Benzo(a)pyrene-d12	24.89	264	607831	26.78	ng/ul	0.07
Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	6489	1.00	ng/ul	89
4) Phenol	6.09	94	18671	1.19	ng/ul#	87
12) Acetophenone	7.42	105	90260	4.69	ng/ul	97
67) Phenanthrene	15.81	178	61117	1.39	ng/ul	94
71) Di-n-butylphthalate	17.07	149	237208	4.14	ng/ul	96
72) Fluoranthene	18.30	202	218689	4.19	ng/ul#	92
75) Pyrene	18.78	202	176905	4.62	ng/ul#	86
76) Butylbenzylphthalate	20.18	149	47859	2.58	ng/ul	96
78) Benzo(a)anthracene	21.30	228	100871	2.75	ng/ul	96
79) Bis(2-ethylhexyl)phthalate	21.41	149	722625	37.21	ng/ul#	97
80) Chrysene	21.36	228	106557	3.43	ng/ul#	91
83) Benzo(b)fluoranthene	23.95	252	116323	4.27	ng/ul#	93
84) Benzo(k)fluoranthene	24.01	252	44312m	1.91	ng/ul	
86) Benzo(a)pyrene	24.96	252	66109	2.82	ng/ul#	84
87) Indeno(1,2,3-cd)pyrene	29.33	276	25740	1.17	ng/ul#	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.979	36	39	44	rVV	91349	205461	5.43%	0.316%
2	3.073	44	47	51	rVV	455778	965113	25.49%	1.483%
3	3.144	51	53	63	rVV	107850	331284	8.75%	0.509%
4	3.285	63	65	72	rVB2	18469	38041	1.00%	0.058%
5	3.425	75	77	84	rBV3	22949	56827	1.50%	0.087%
6	3.789	103	108	114	rBV2	69818	187679	4.96%	0.288%
7	3.930	118	120	123	rBV2	21784	41366	1.09%	0.064%
8	4.059	128	131	134	rVV	26431	49824	1.32%	0.077%
9	4.130	134	137	145	rVV3	26401	77103	2.04%	0.118%
10	4.259	145	148	155	rVV	134041	273604	7.23%	0.420%
11	4.916	201	204	207	rBV2	28100	61511	1.62%	0.095%
12	5.939	288	291	293	rBV2	24224	55484	1.47%	0.085%
13	6.069	298	302	307	rVV	1048051	1800471	47.56%	2.766%
14	6.162	307	310	315	rVV	778555	1328696	35.10%	2.041%
15	6.292	318	321	327	rVV	963101	1798147	47.50%	2.763%
16	6.410	328	331	336	rVV2	34988	73538	1.94%	0.113%
17	6.692	352	355	360	rBV	1015257	1629927	43.06%	2.504%
18	6.834	362	367	373	rVB5	15910	45534	1.20%	0.070%
19	6.974	373	379	383	rBV5	21558	73153	1.93%	0.112%
20	7.398	412	415	416	rBV	258090	480551	12.69%	0.738%
21	7.704	437	441	444	rBV	1454802	2051138	54.18%	3.151%
22	7.763	444	446	449	rVV2	22481	37495	0.99%	0.058%
23	7.845	449	453	456	rVV	89030	138425	3.66%	0.213%
24	7.928	456	460	463	rVV4	13796	35012	0.92%	0.054%
25	8.328	490	494	497	rVV	1413677	1944080	51.35%	2.987%
26	8.386	497	499	502	rVV3	18037	30795	0.81%	0.047%
27	8.596	508	517	520	rBV3	100441	273444	7.22%	0.420%
28	8.655	520	522	524	rVB2	33386	49338	1.30%	0.076%
29	8.795	531	534	537	rBV	1495293	2141968	56.58%	3.291%
30	9.090	556	559	562	rVV	1309426	1858863	49.10%	2.856%
31	9.244	568	572	575	rVV	107034	215204	5.68%	0.331%
32	9.303	575	577	580	rVB3	37872	57272	1.51%	0.088%
33	9.597	599	602	604	rVV2	30420	42914	1.13%	0.066%
34	9.774	615	617	622	rVB2	17460	44635	1.18%	0.069%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.880	622	626	629	rBV4	15037	33747	0.89%	0.052%
36	10.163	648	650	655	rVV2	31950	55757	1.47%	0.086%
37	10.281	657	660	663	rVV	16011	28842	0.76%	0.044%
38	10.645	687	691	694	rVV2	11936	27015	0.71%	0.042%
39	11.069	724	727	730	rVV3	23065	45057	1.19%	0.069%
40	11.316	746	748	753	rVV4	22824	44070	1.16%	0.068%
41	12.128	813	817	820	rBV	2051042	3256331	86.02%	5.003%
42	12.176	820	821	824	rVV2	33063	35439	0.94%	0.054%
43	12.353	832	836	839	rBV	2198597	3319628	87.69%	5.100%
44	12.624	856	859	861	rBV	45368	89331	2.36%	0.137%
45	12.683	861	864	867	rVB	1477372	2251807	59.48%	3.460%
46	12.978	885	889	892	rBV	1113763	2155578	56.94%	3.312%
47	13.108	897	900	903	rVV	180588	263381	6.96%	0.405%
48	13.179	903	906	908	rVV3	18849	36344	0.96%	0.056%
49	13.250	909	912	916	rVV2	35561	67167	1.77%	0.103%
50	13.415	922	926	929	rVV3	35531	70917	1.87%	0.109%
51	13.638	941	945	948	rBV4	18572	42801	1.13%	0.066%
52	13.768	950	956	959	rBV	2358274	3785625	100.00%	5.816%
53	13.815	959	960	963	rVV3	13289	25972	0.69%	0.040%
54	13.933	963	970	973	rVV2	1141638	2018511	53.32%	3.101%
55	14.016	975	977	982	rVB4	35764	69772	1.84%	0.107%
56	14.204	988	993	997	rBV3	64327	127817	3.38%	0.196%
57	14.370	1004	1007	1011	rVB4	27220	49348	1.30%	0.076%
58	14.712	1033	1036	1041	rBV	63124	119368	3.15%	0.183%
59	15.196	1074	1077	1078	rVV3	11074	25733	0.68%	0.040%
60	15.231	1078	1080	1084	rVV5	29343	65939	1.74%	0.101%
61	15.302	1084	1086	1088	rVV2	29182	49864	1.32%	0.077%
62	15.361	1088	1091	1092	rVV4	17620	27435	0.72%	0.042%
63	15.538	1102	1106	1109	rVB5	16110	43949	1.16%	0.068%
64	15.656	1113	1116	1119	rBV3	54192	88687	2.34%	0.136%
65	15.715	1119	1121	1122	rBV2	26106	40765	1.08%	0.063%
66	15.775	1122	1126	1128	rVV	1279054	2244961	59.30%	3.449%
67	15.810	1128	1129	1132	rVB	128269	169508	4.48%	0.260%
68	15.893	1132	1136	1139	rBV	1786601	3082473	81.43%	4.736%
69	16.035	1145	1148	1153	rVB3	25155	55717	1.47%	0.086%
70	16.141	1155	1157	1161	rVB4	14834	27334	0.72%	0.042%
71	16.271	1166	1168	1171	rVB4	20805	35829	0.95%	0.055%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

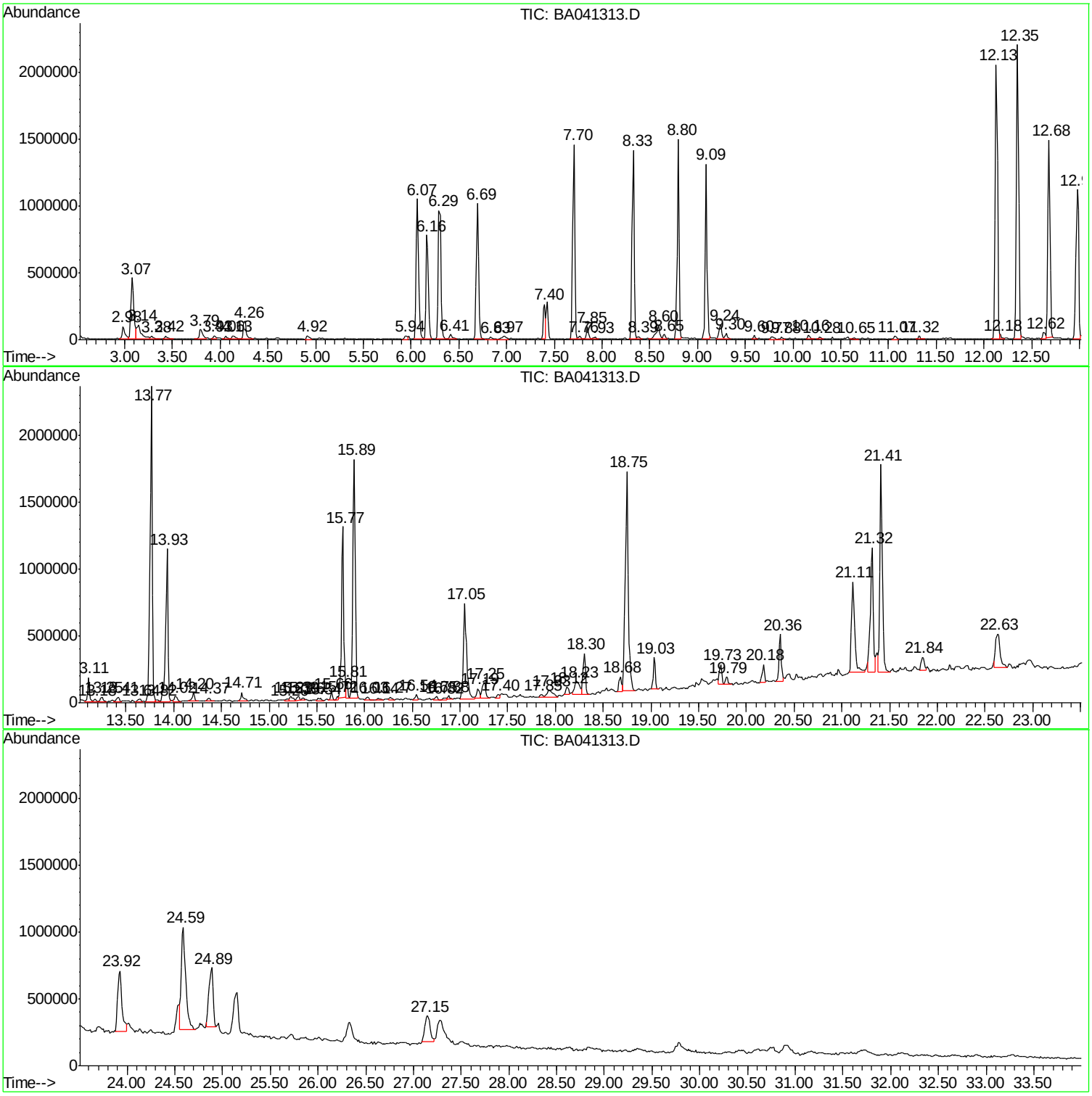
72	16.541	1188	1191	1193	rBV	37037	56044	1.48%	0.086%
73	16.753	1206	1209	1212	rVB3	31207	52365	1.38%	0.080%
74	16.824	1212	1215	1218	rBV3	17042	48546	1.28%	0.075%
75	16.883	1218	1220	1223	rVB4	26915	47408	1.25%	0.073%
76	17.047	1230	1234	1243	rBV2	713367	1849086	48.84%	2.841%
77	17.189	1243	1246	1248	rVV	71218	134868	3.56%	0.207%
78	17.248	1248	1251	1256	rVB	111825	277462	7.33%	0.426%
79	17.402	1261	1264	1265	rBV3	25005	50947	1.35%	0.078%
80	17.852	1300	1302	1305	rBV4	17427	39283	1.04%	0.060%
81	17.935	1305	1309	1316	rVB6	48398	207018	5.47%	0.318%
82	18.123	1322	1325	1327	rBV3	52366	95163	2.51%	0.146%
83	18.229	1330	1334	1338	rVV4	95762	378898	10.01%	0.582%
84	18.300	1338	1340	1344	rVB	308752	511908	13.52%	0.787%
85	18.679	1369	1372	1374	rBV	109742	211141	5.58%	0.324%
86	18.749	1374	1378	1385	rVB2	1638878	3615768	95.51%	5.555%
87	19.031	1400	1402	1406	rVB2	238370	387686	10.24%	0.596%
88	19.729	1459	1461	1464	rVB	144058	233328	6.16%	0.358%
89	19.788	1464	1466	1470	rBV4	51916	86481	2.28%	0.133%
90	20.181	1496	1499	1501	rBV	133155	228183	6.03%	0.351%
91	20.358	1510	1514	1516	rBV	356093	634826	16.77%	0.975%
92	21.111	1575	1578	1589	rBV2	678370	1554518	41.06%	2.388%
93	21.318	1592	1596	1599	rVV	931117	2084234	55.06%	3.202%
94	21.408	1601	1604	1612	rVB	1551502	2789362	73.68%	4.286%
95	21.840	1640	1642	1646	rBV4	97352	211828	5.60%	0.325%
96	22.629	1708	1711	1720	rVB4	253429	826415	21.83%	1.270%
97	23.924	1821	1825	1831	rBV3	450808	1366812	36.11%	2.100%
98	24.591	1879	1883	1894	rVB	764946	2559952	67.62%	3.933%
99	24.887	1904	1909	1913	rVB	441264	1315434	34.75%	2.021%
100	27.151	2097	2102	2107	rBV2	193047	758051	20.02%	1.165%

Sum of corrected areas: 65084731

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

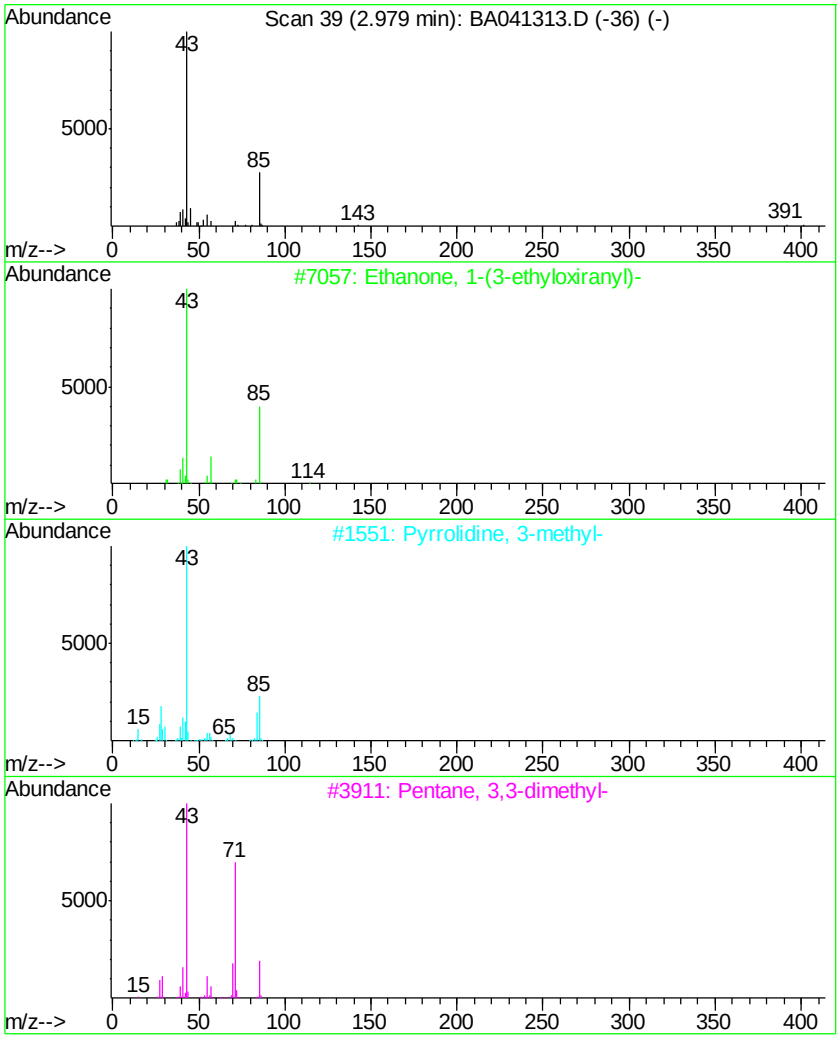
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

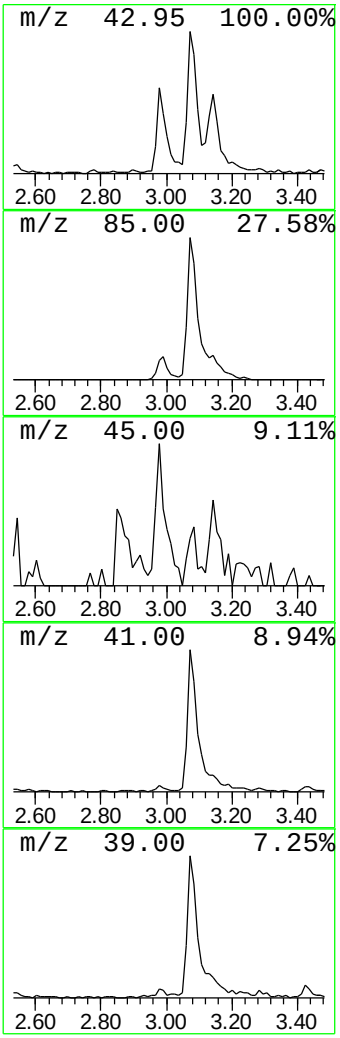
****

Peak Number 1 unknown2.98 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	2.52 ng/ul	205461	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-(3-ethyloxiranyl)-	114	C6H10O2	017257-81-7	36
2	Pyrrolidine, 3-methyl-	85	C5H11N	034375-89-8	9
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	9
4	Pentanal, 2,2-dimethyl-	114	C7H14O	014250-88-5	9
5	2-Hexanone, 3,3-dimethyl-	128	C8H16O	026118-38-7	9





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

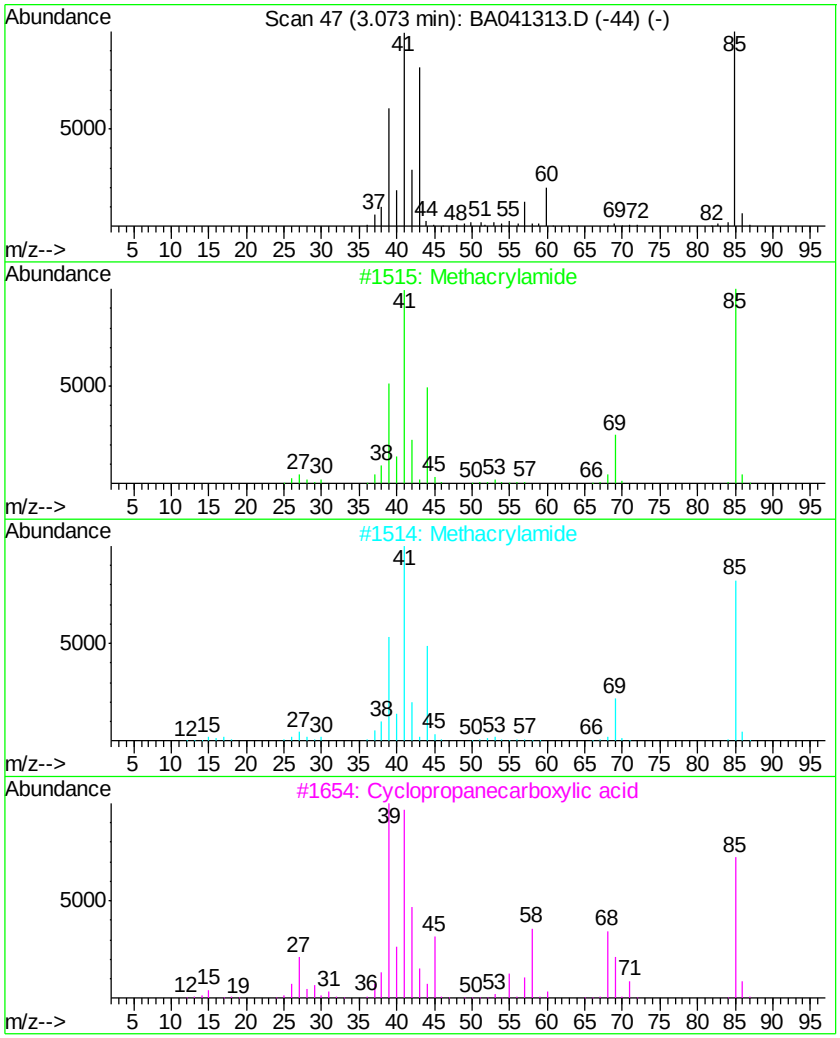
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

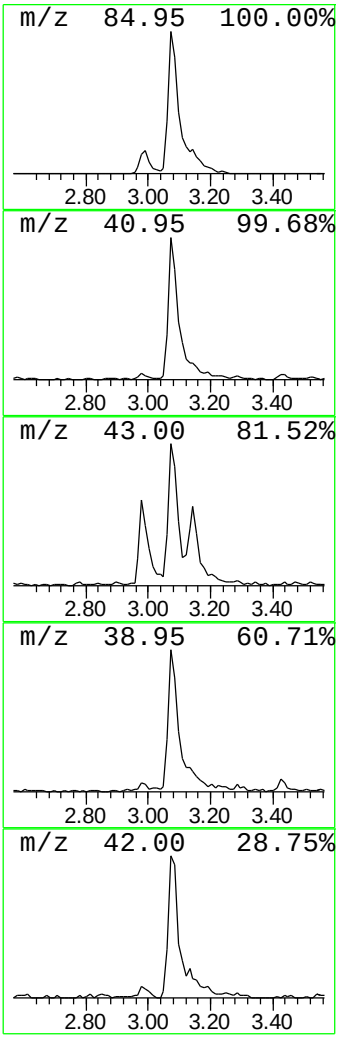
****

Peak Number 2 Methacrylamide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.07	11.84 ng/ul	965113	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methacrylamide	85	C4H7NO	000079-39-0	64
2	Methacrylamide	85	C4H7NO	000079-39-0	64
3	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	46
4	2-Pyrrolidinone	85	C4H7NO	000616-45-5	38
5	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	35





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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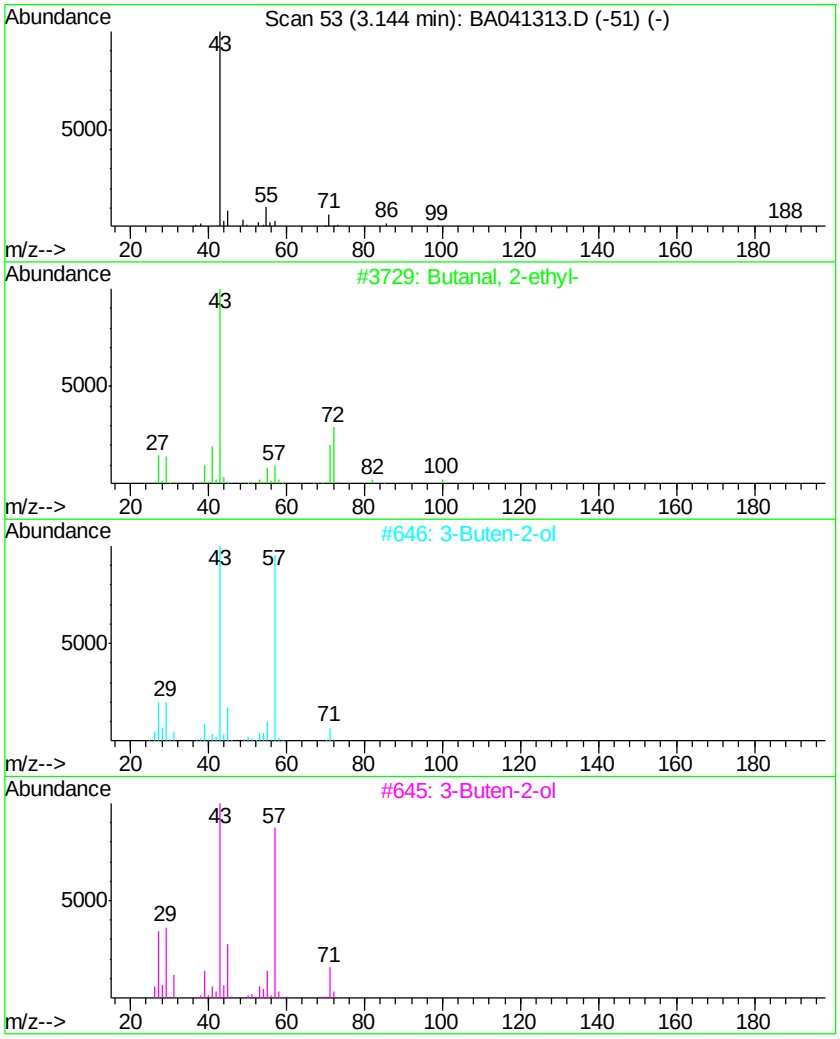
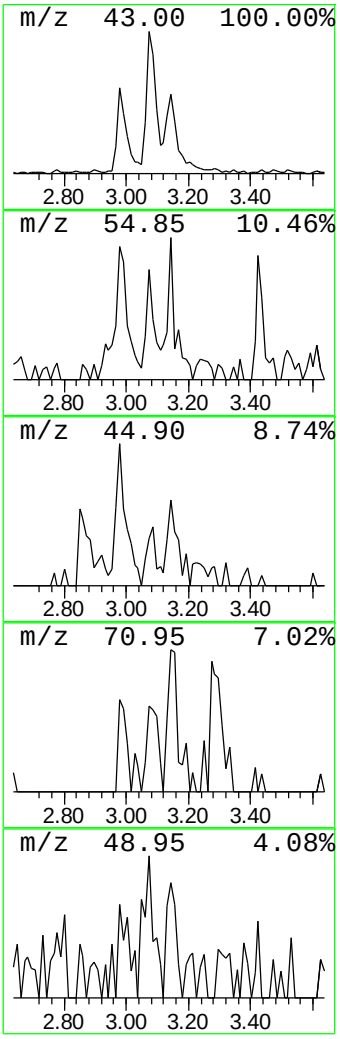
Peak Number 3 unknown3.14 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.14	4.07 ng/ul	331284	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal, 2-ethyl-	100	C6H12O	000097-96-1	17
2	3-Buten-2-ol	72	C4H8O	000598-32-3	9
3	3-Buten-2-ol	72	C4H8O	000598-32-3	9
4	2-Butanone, 3-methyl-	86	C5H10O	000563-80-4	9
5	Butanal, 2,2-dimethyl-	100	C6H12O	002094-75-9	9





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

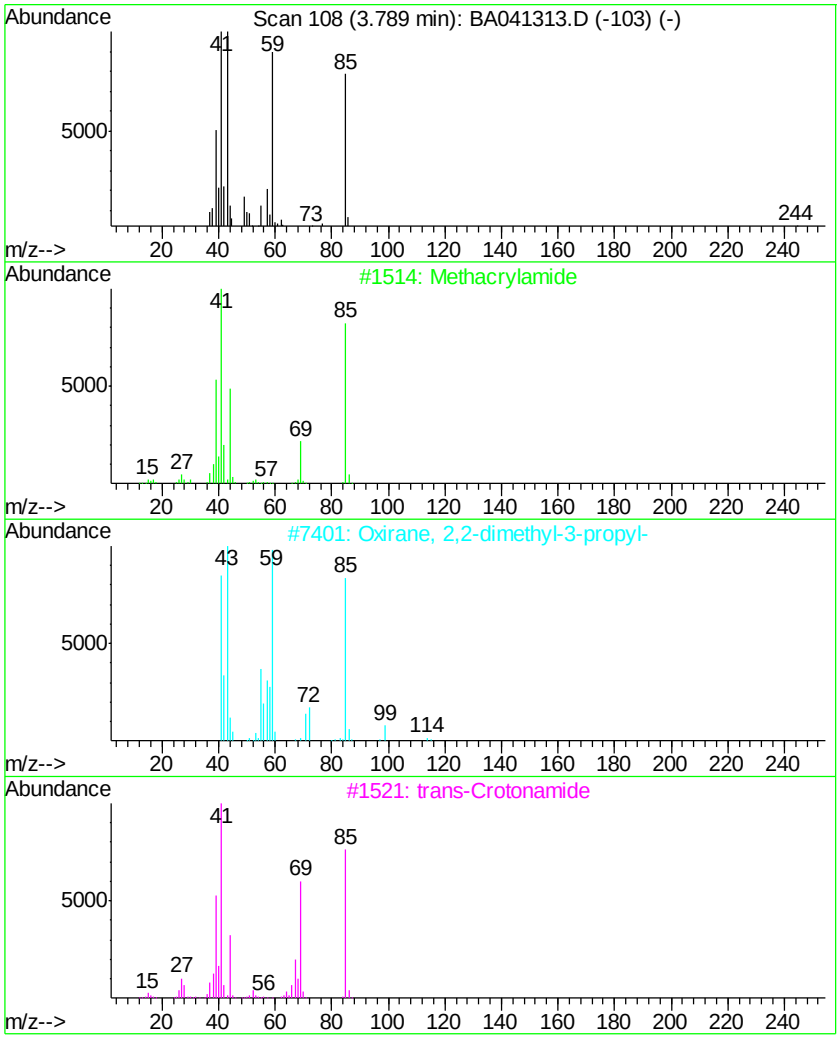
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

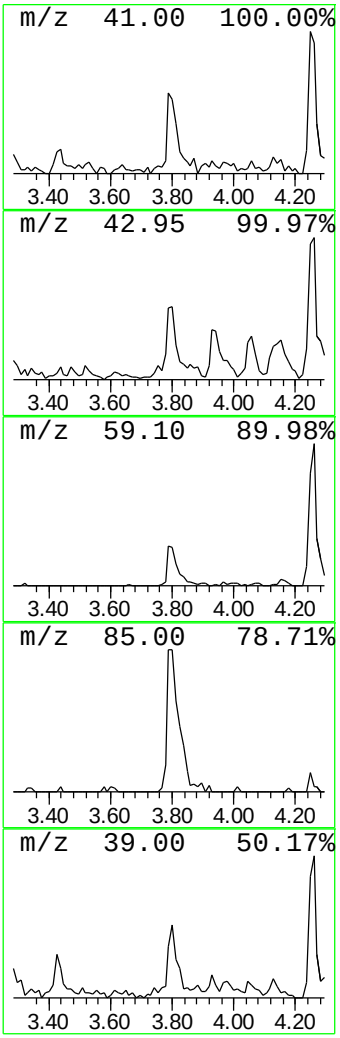
****

Peak Number 4 unknown3.79 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.79	2.30 ng/ul	187679	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methacrylamide	85	C4H7NO	000079-39-0	52
2	Oxirane, 2,2-dimethyl-3-propyl-	114	C7H14O	017612-35-0	50
3	trans-Crotonamide	85	C4H7NO	000625-37-6	47
4	Methacrylamide	85	C4H7NO	000079-39-0	47
5	Methacrylamide	85	C4H7NO	000079-39-0	43





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

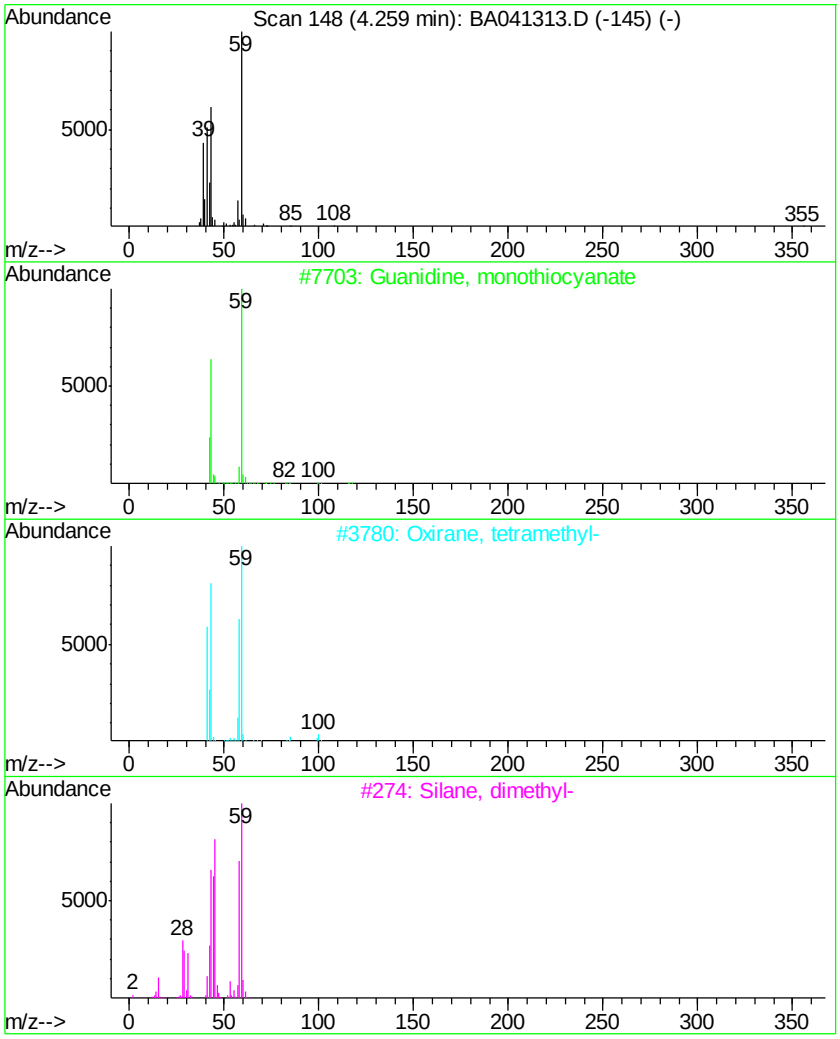
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

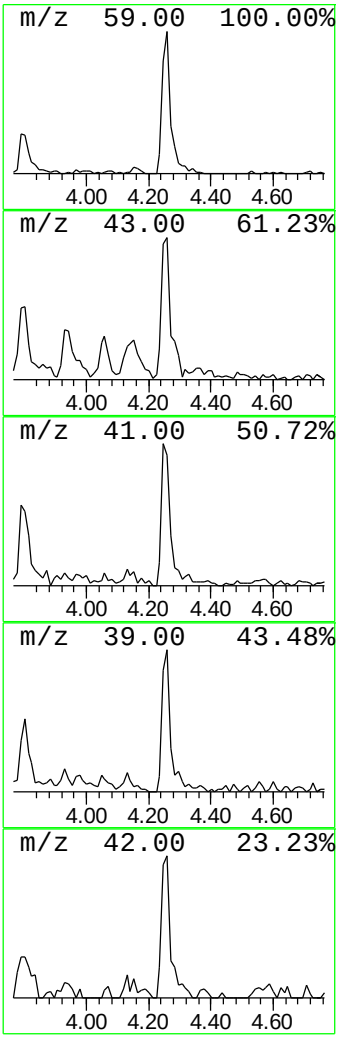
****

Peak Number 5 Guanidine, monothiocyanate Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.26	3.36 ng/ul	273604	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Guanidine, monothiocyanate	116	C2H4N4S	056960-89-5	64
2	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	56
3	Silane, dimethyl-	60	C2H8Si	001111-74-6	50
4	Guanidine	59	CH5N3	000113-00-8	47
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	40





Library Search Compound Report

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Acq On    : 20 Oct 2008   7:01
Operator  : QM
Sample    : Z4920-04
Misc      :
ALS Vial  : 22   Sample Multiplier: 1

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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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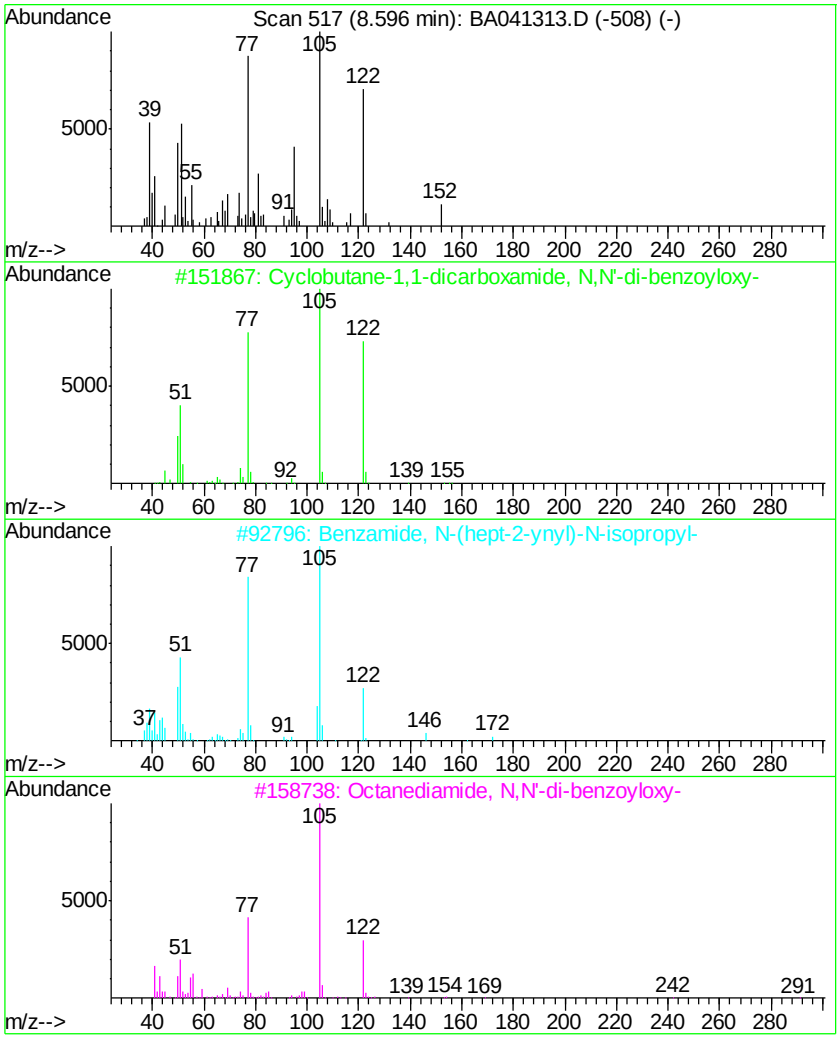
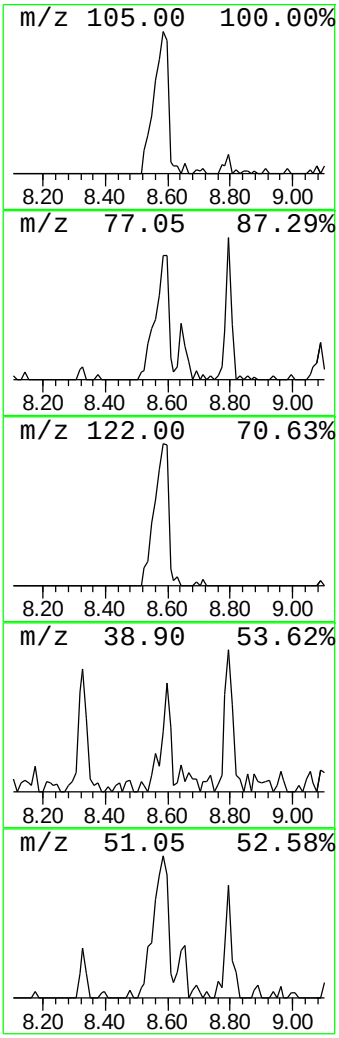
Peak Number 6 Cyclobutane-1,1-dicarboxami... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.60	2.94 ng/ul	273444	Naphthalene-d8	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane-1,1-dicarboxamide, N...	382	C20H18N2O6	1000253-25-3	72
2	Benzamide, N-(hept-2-ynyl)-N-iso...	257	C17H23NO	1000262-49-9	64
3	Octanediamide, N,N'-di-benzoyloxy-	412	C22H24N2O6	1000253-26-1	59
4	Benzoyl bromide	184	C7H5BrO	000618-32-6	59
5	Benzoic Acid	122	C7H6O2	000065-85-0	43





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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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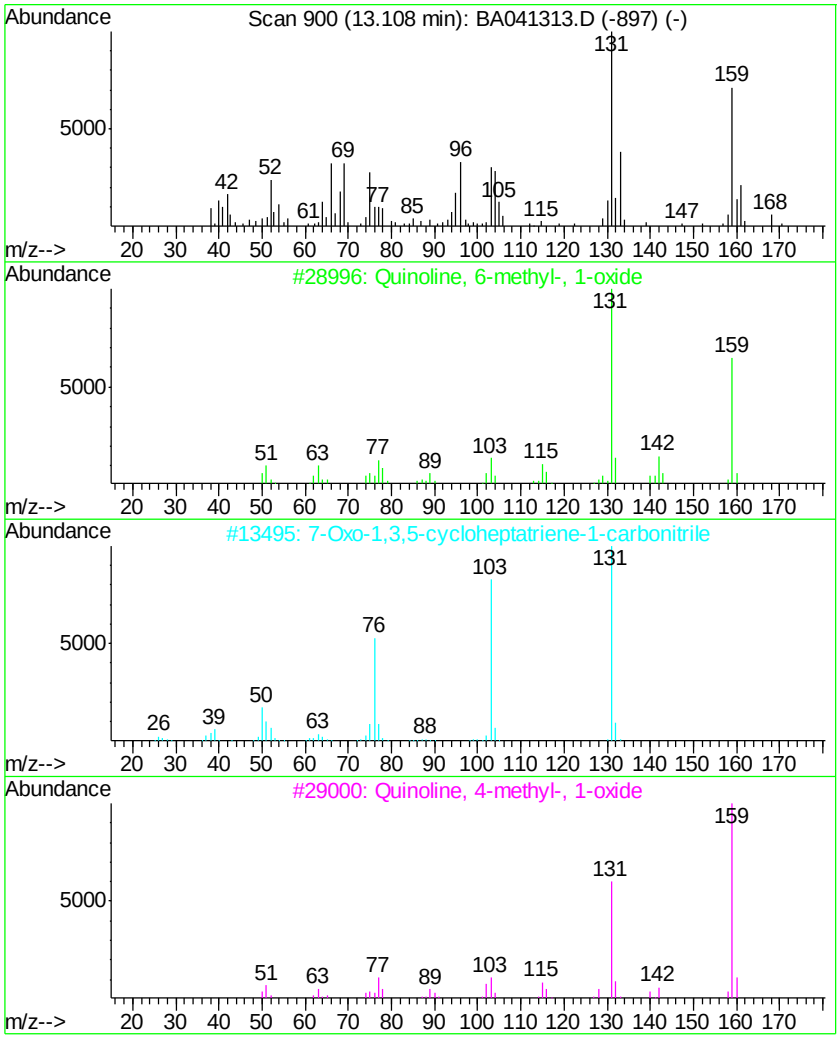
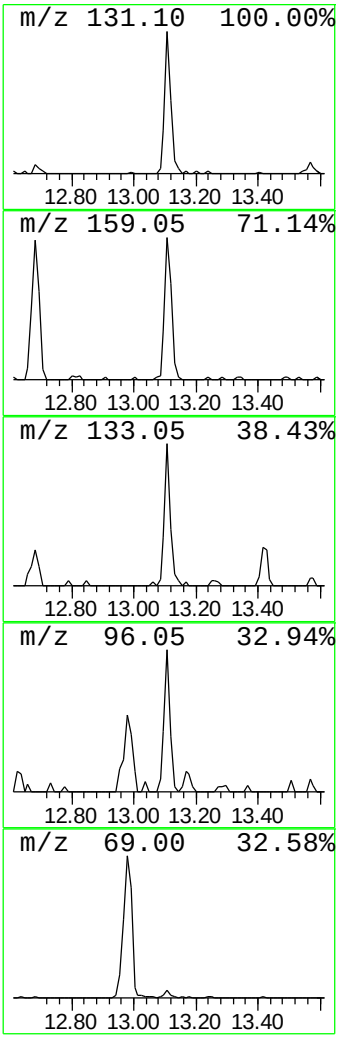
****

Peak Number 7 unknown13.11 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.11	2.34 ng/ul	263381	Acenaphthene-d10	12.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoline, 6-methyl-, 1-oxide	159	C10H9NO	004053-42-3	16
2	7-Oxo-1,3,5-cycloheptatriene-1-c...	131	C8H5NO	000934-19-0	10
3	Quinoline, 4-methyl-, 1-oxide	159	C10H9NO	004053-40-1	10
4	1,4-Methanonaphthalen-9-ol, 1,2,...	160	C11H12O	055255-94-2	9
5	4(1H)-Quinolinone, 1-methyl-	159	C10H9NO	000083-54-5	9





Library Search Compound Report

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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

*********************************************************************
Peak Number  8  unknown17.25                    Concentration Rank 13
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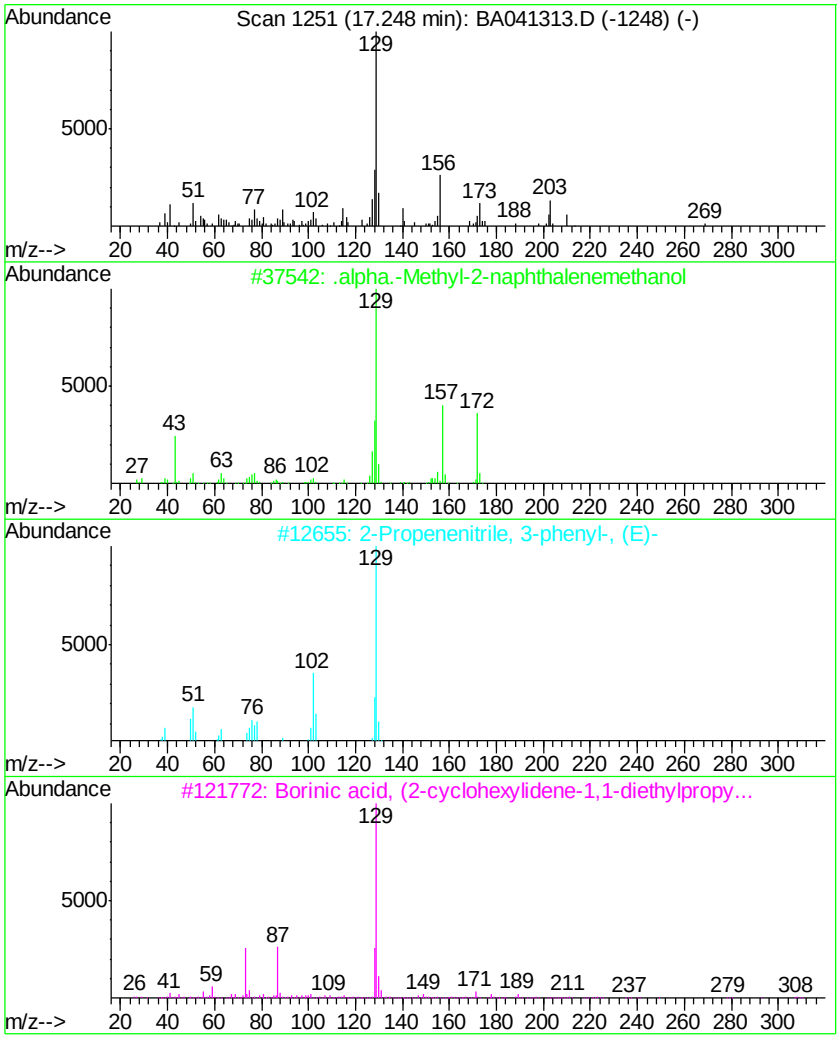
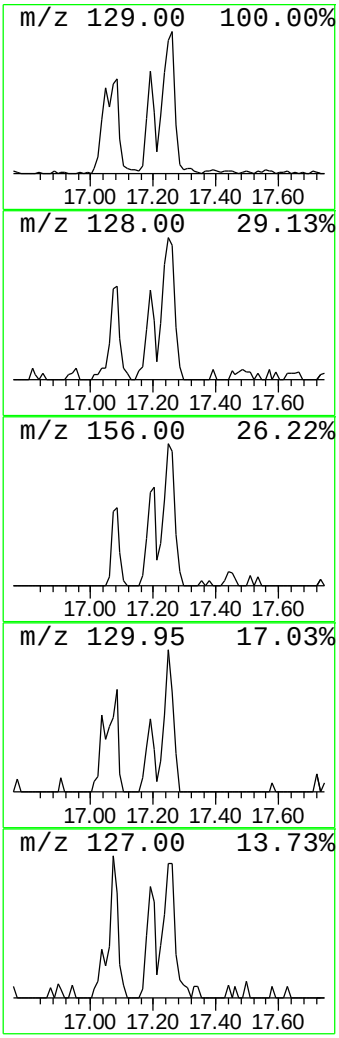
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.25	2.47 ng/ul	277462	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Methyl-2-naphthalenemeth...	172	C12H12O	007228-47-9	50
2	2-Propenenitrile, 3-phenyl-, (E)-	129	C9H7N	001885-38-7	47
3	Borinic acid, (2-cyclohexylidene...	308	C18H37BOSi	074810-48-3	47
4	1-butyne, 4-chloro-3-methyl-3-ph...	178	C11H11Cl	1000161-45-9	47
5	1,4-Ethanonaphthalene, 1,2,3,4-t...	158	C12H14	004175-52-4	47





Library Search Compound Report

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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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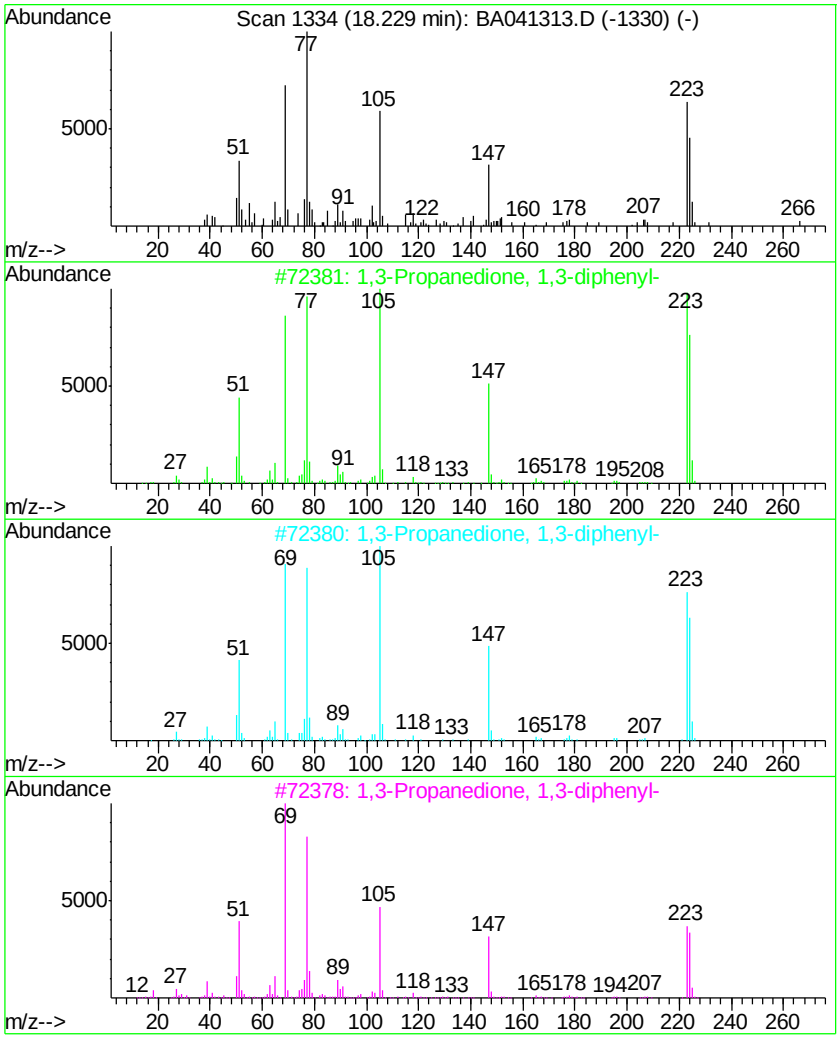
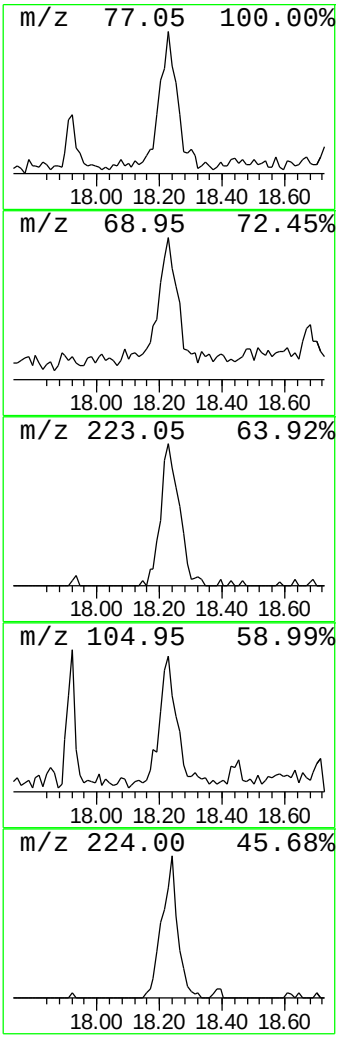
Peak Number 9 1,3-Propanedione, 1,3-diphe... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.23	3.38 ng/ul	378898	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	90
2	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	86
3	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	76
4	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	76
5	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	62





Library Search Compound Report

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Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Octadecanoic acid Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.68	2.03 ng/ul	211141	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	72
2	Octadecanoic acid	284	C18H36O2	000057-11-4	64
3	Octadecanoic acid	284	C18H36O2	000057-11-4	59
4	Dodecanoic acid	200	C12H24O2	000143-07-7	46
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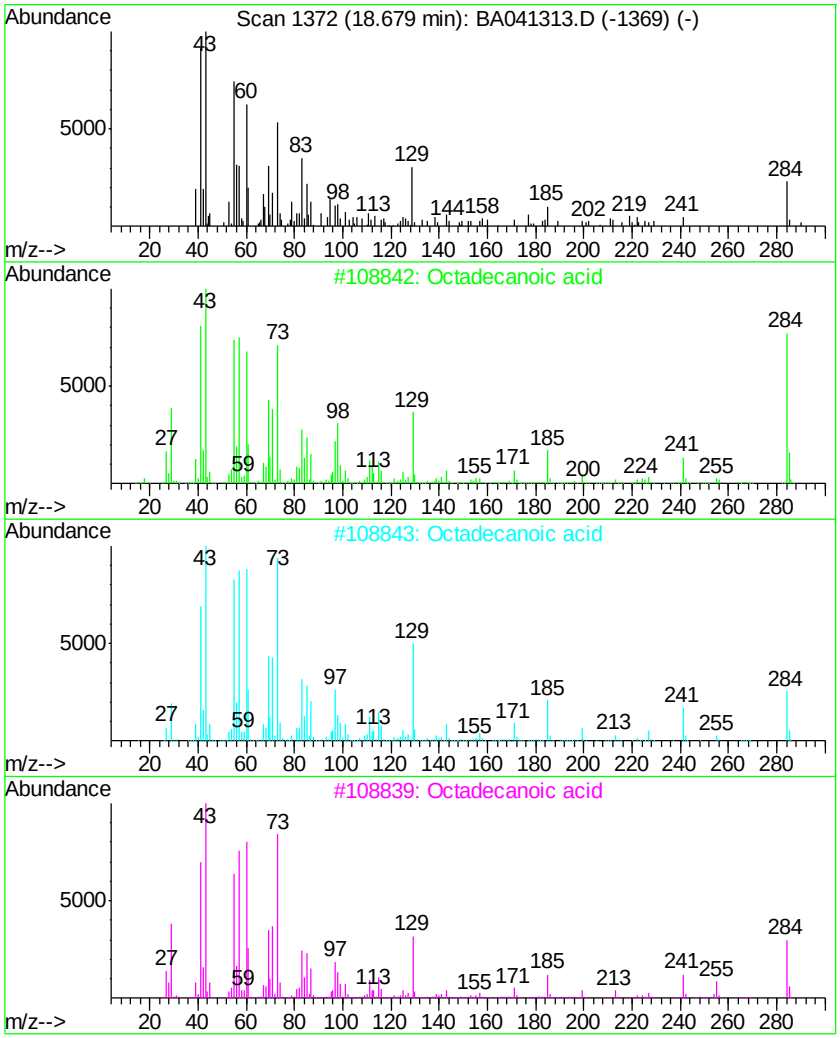

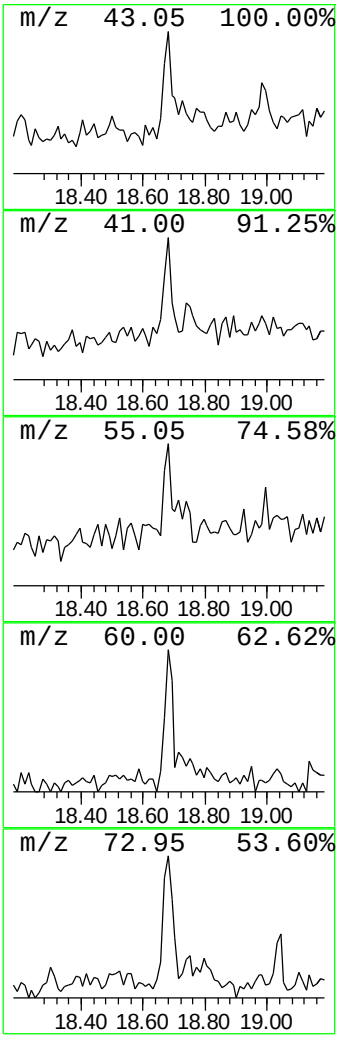

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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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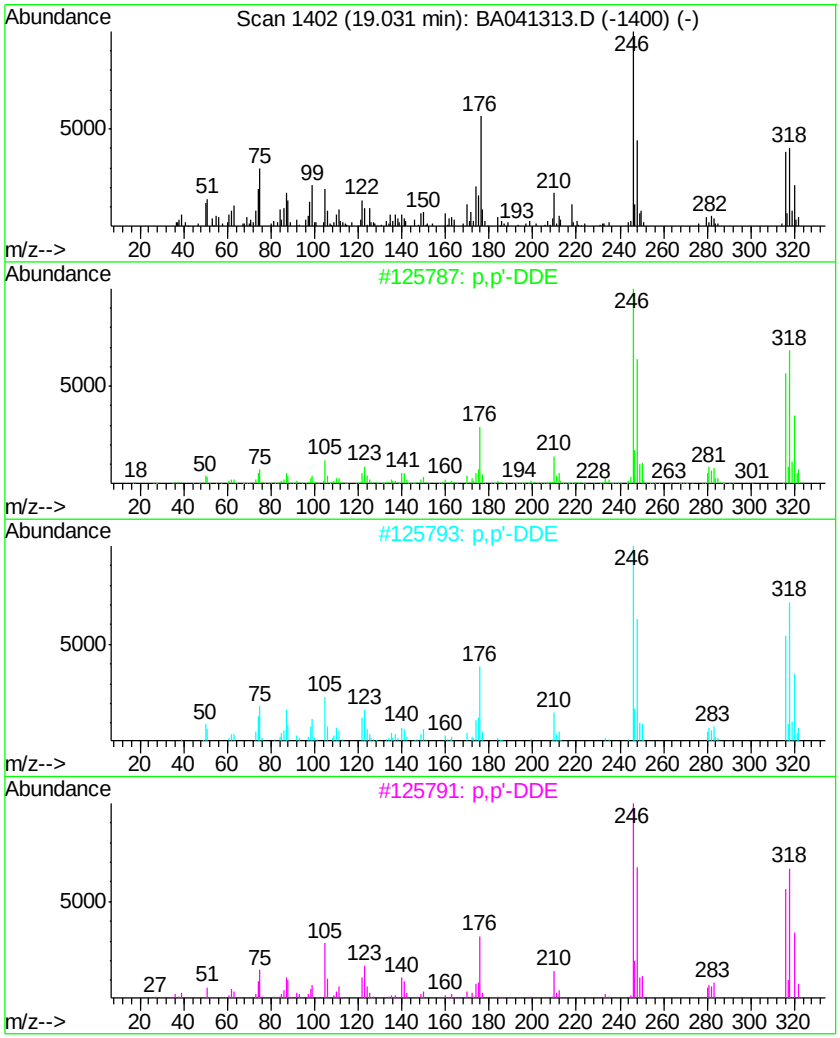
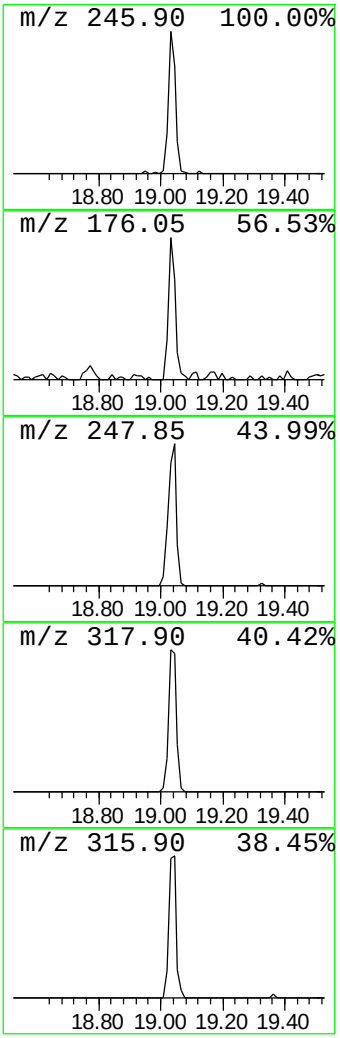
Peak Number 11 p,p'-DDE Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	3.72 ng/ul	387686	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p,p'-DDE	316	C14H8Cl4	000072-55-9	95
2	p,p'-DDE	316	C14H8Cl4	000072-55-9	94
3	p,p'-DDE	316	C14H8Cl4	000072-55-9	92
4	Anthracene, 9,10-dichloro-	246	C14H8Cl2	000605-48-1	91
5	p,p'-DDE	316	C14H8Cl4	000072-55-9	90





Library Search Compound Report

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Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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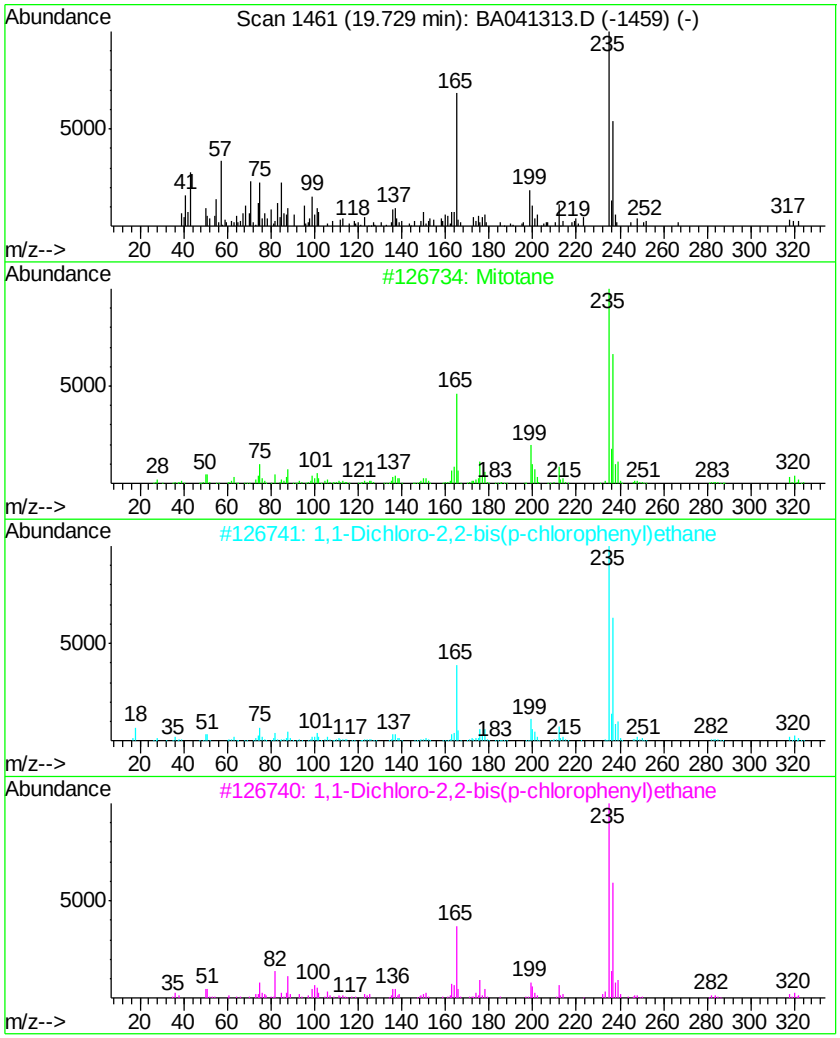
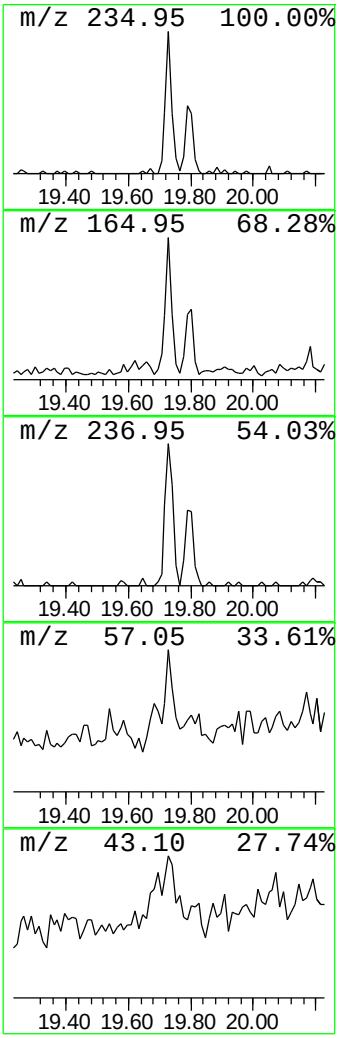
Peak Number 12 Mitotane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.73	2.24 ng/ul	233328	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Mitotane	318	C14H10Cl4	000053-19-0	90
2	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	76
3	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	76
4	1,1-Dichloro-2,2-bis(p-chlorophe...	318	C14H10Cl4	000072-54-8	70
5	1-Chloro-2,2-Bis(p-chlorophenyl)...	284	C14H11Cl3	002642-80-0	64





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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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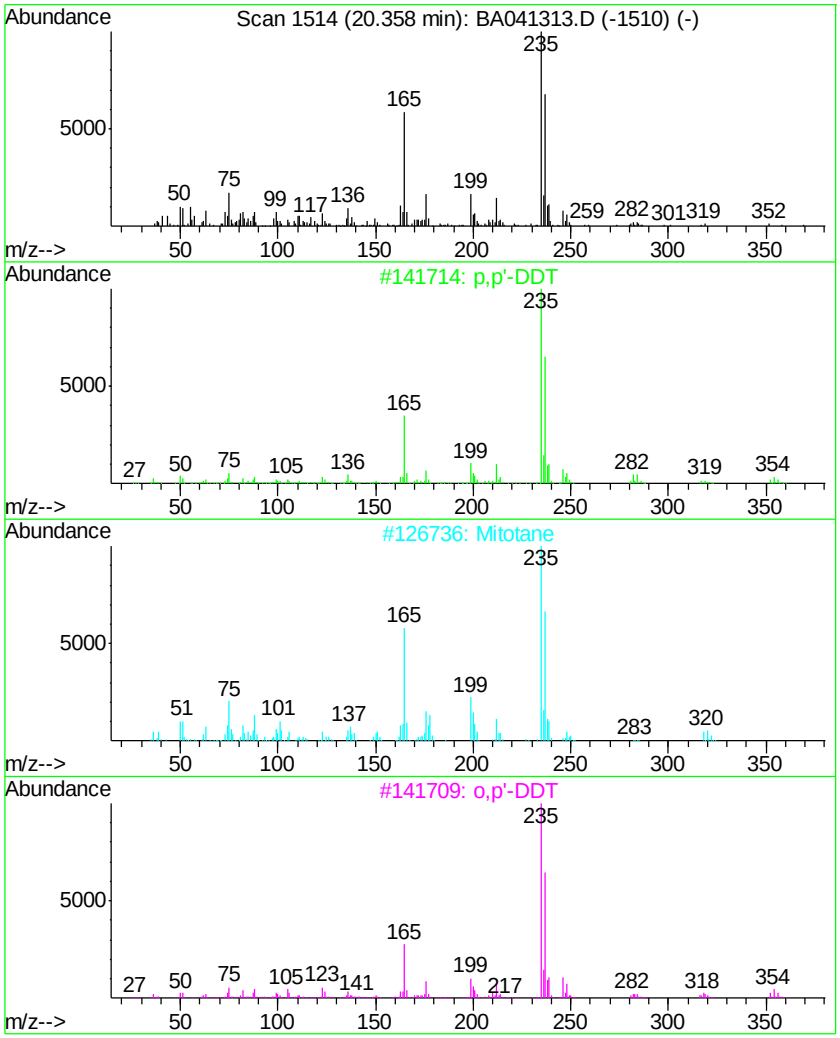
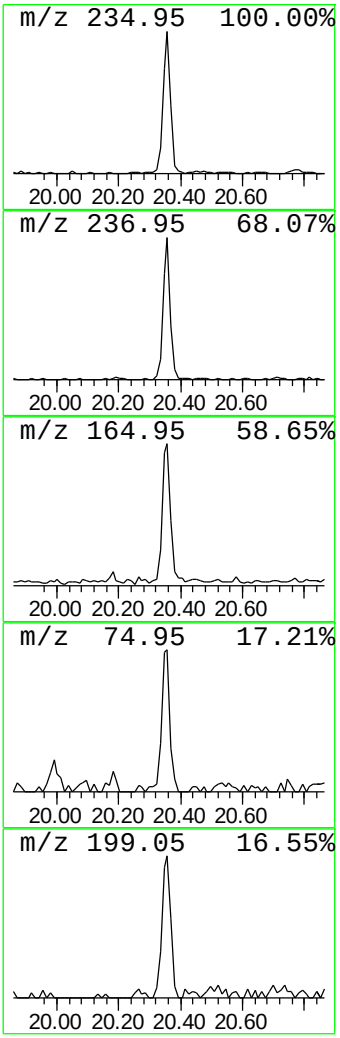
Peak Number 13 p,p'-DDT Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.36	6.09 ng/ul	634826	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p,p'-DDT	352	C14H9Cl5	000050-29-3	91
2	Mitotane	318	C14H10Cl4	000053-19-0	91
3	o,p'-DDT	352	C14H9Cl5	000789-02-6	90
4	o,p'-DDT	352	C14H9Cl5	000789-02-6	90
5	Mitotane	318	C14H10Cl4	000053-19-0	90





Library Search Compound Report

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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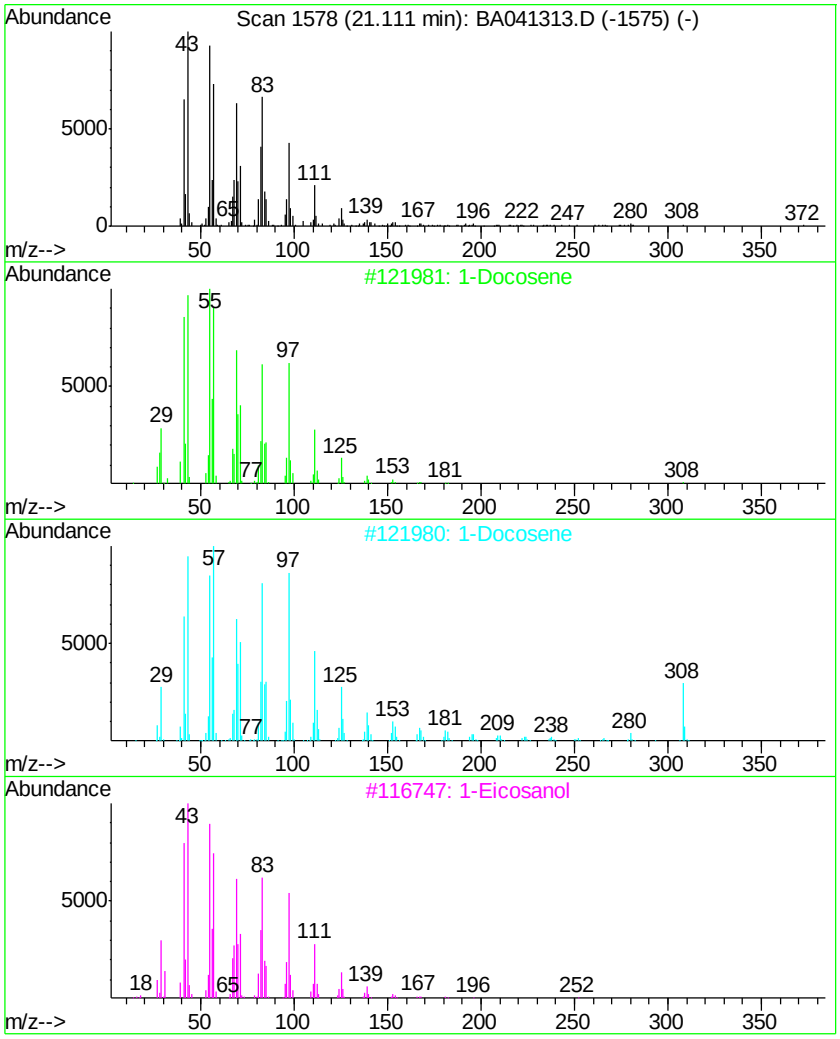
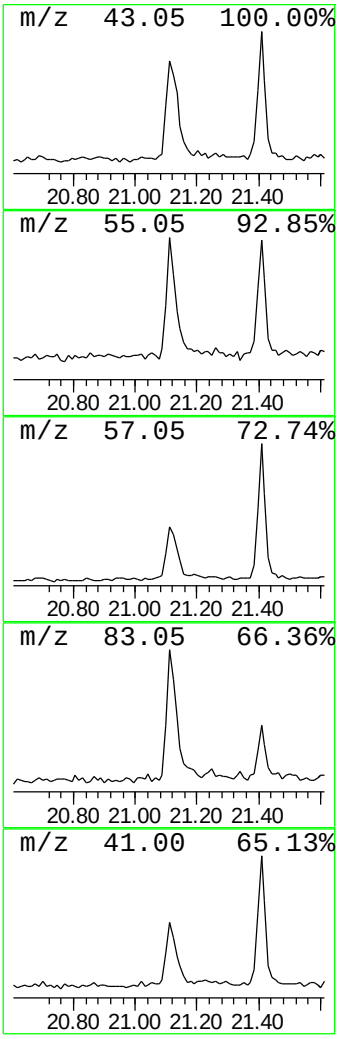
Peak Number 14 1-Docosene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.11	14.92 ng/ul	1554520	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	99
2	1-Docosene	308	C22H44	001599-67-3	98
3	1-Eicosanol	298	C20H42O	000629-96-9	91
4	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	91
5	1-Docosanol	326	C22H46O	000661-19-8	90





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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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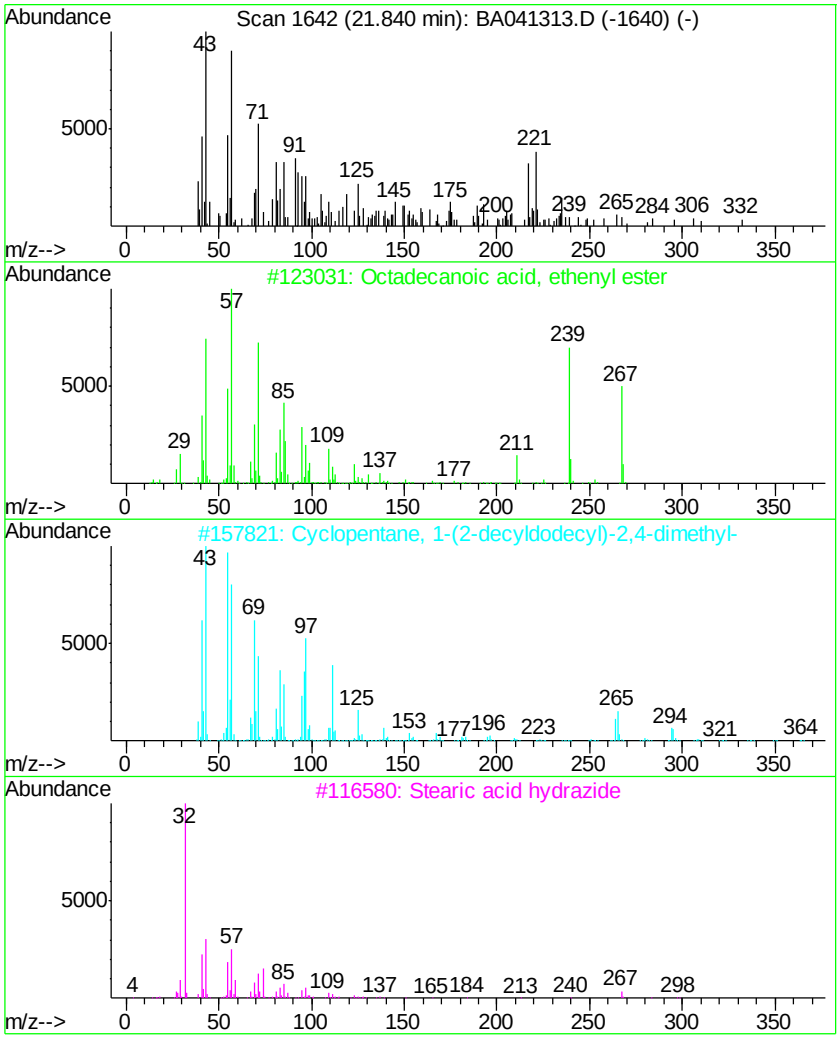
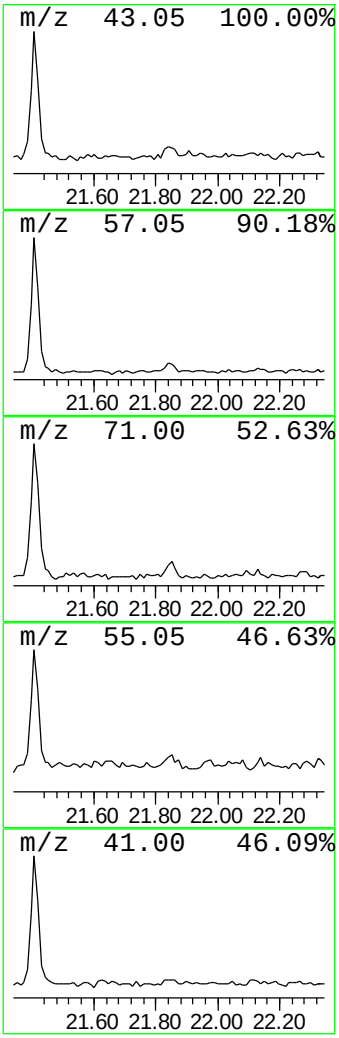
Peak Number 15 unknown21.84 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.84	2.03 ng/ul	211828	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid, ethenyl ester	310	C20H38O2	000111-63-7	38
2	Cyclopentane, 1-(2-decyldodecyl)...	406	C29H58	055429-26-0	32
3	Stearic acid hydrazide	298	C18H38N2O	004130-54-5	27
4	1-Hexadecanesulfonic acid, 3,5-d...	479	C23H39Cl2NO3S	040220-85-7	16
5	1-Decanol, 2-hexyl-	242	C16H34O	002425-77-6	16





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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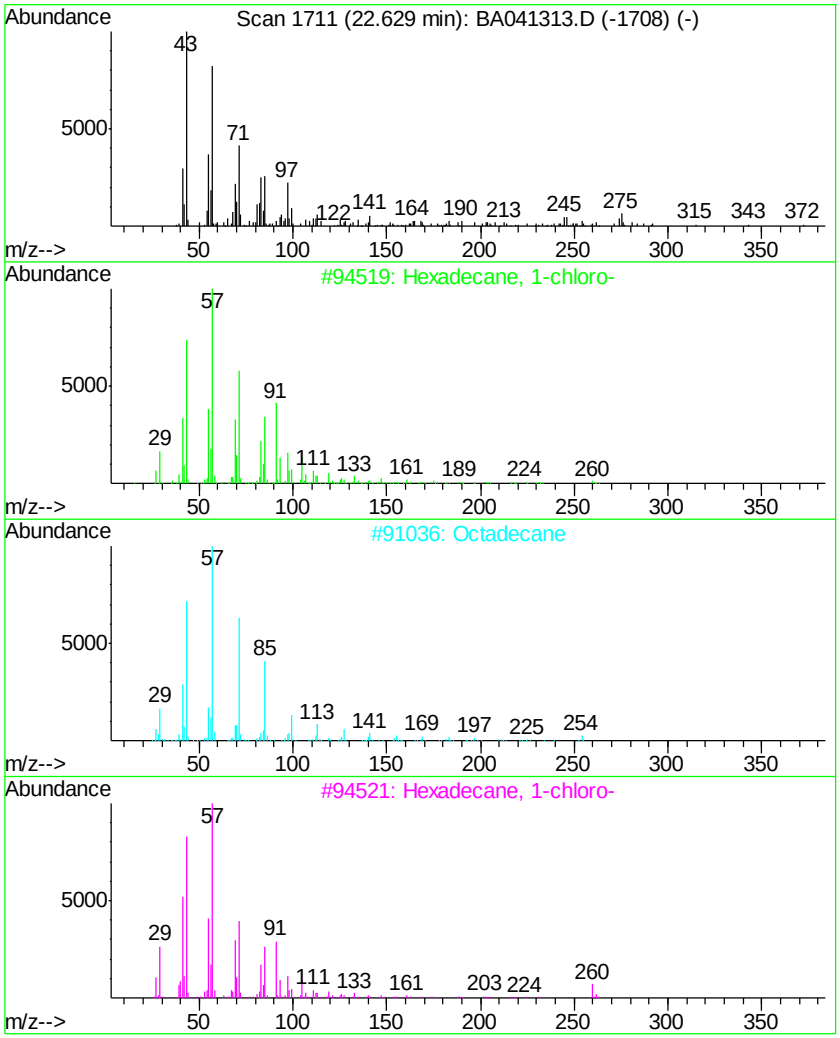
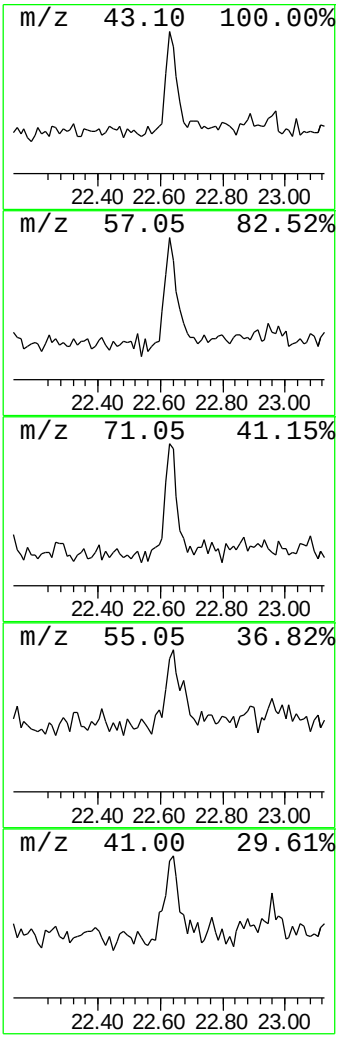
Peak Number 16 Hexadecane, 1-chloro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.63	7.93 ng/ul	826415	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 1-chloro-	260	C16H33Cl	004860-03-1	70
2	Octadecane	254	C18H38	000593-45-3	60
3	Hexadecane, 1-chloro-	260	C16H33Cl	004860-03-1	58
4	Dotriacontane	451	C32H66	000544-85-4	58
5	Tetratetracontane	619	C44H90	007098-22-8	58





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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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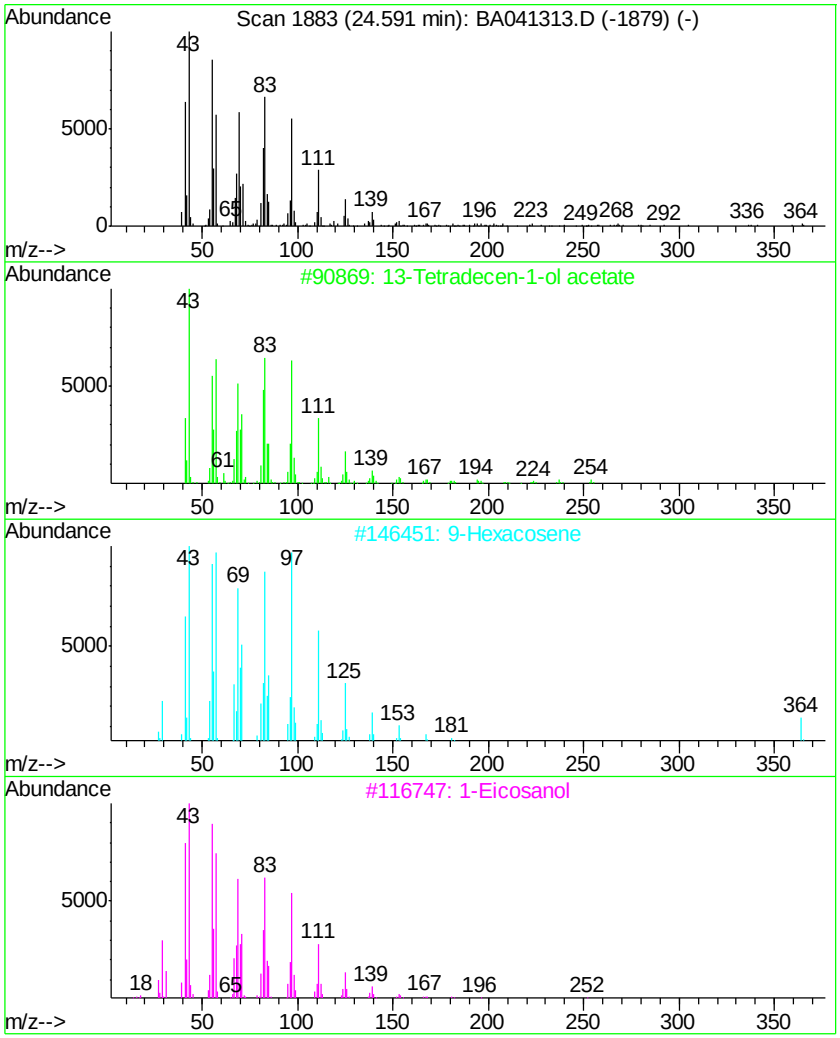
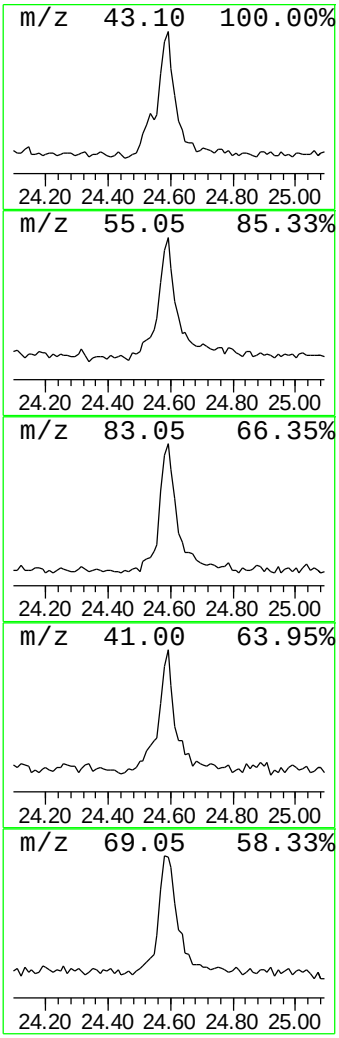
Peak Number 17 13-Tetradecen-1-ol acetate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.59	38.92 ng/ul	2559950	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	91
2	9-Hexacosene	364	C26H52	071502-22-2	78
3	1-Eicosanol	298	C20H42O	000629-96-9	68
4	Cyclohexane, 1,4-didecyl-	364	C26H52	055334-20-8	62
5	Cyclohexadecane, 1,2-diethyl-	280	C20H40	1000155-85-3	55





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

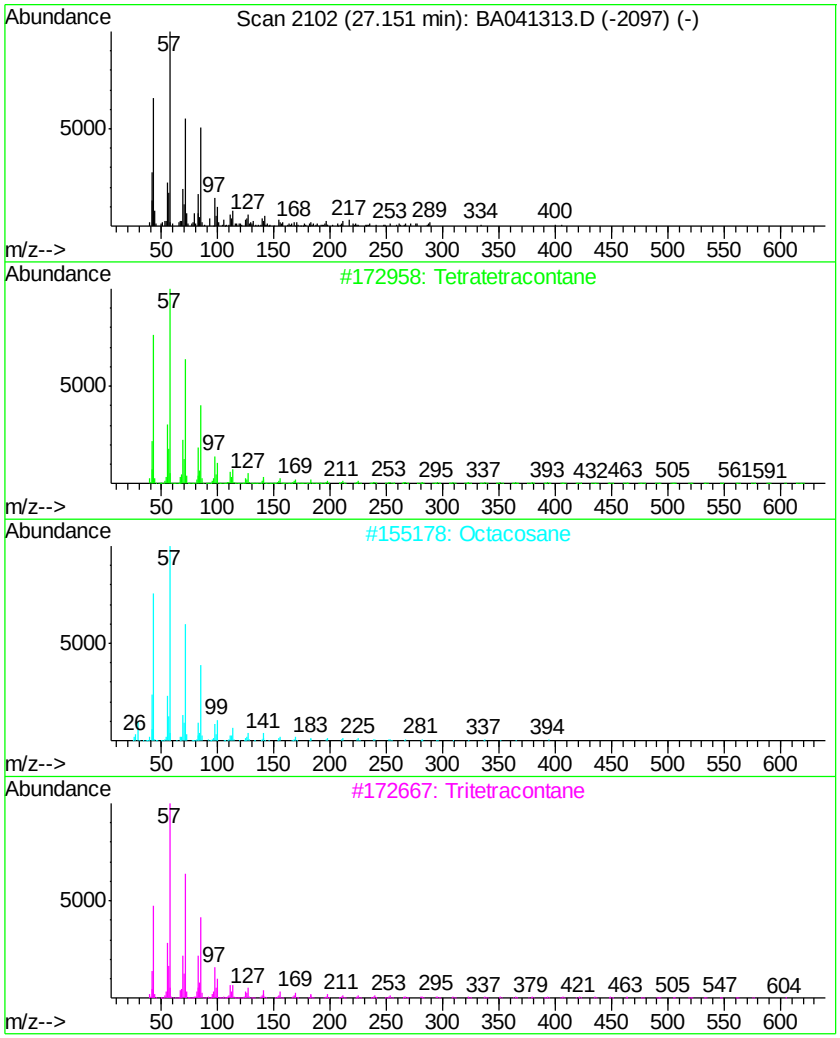
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

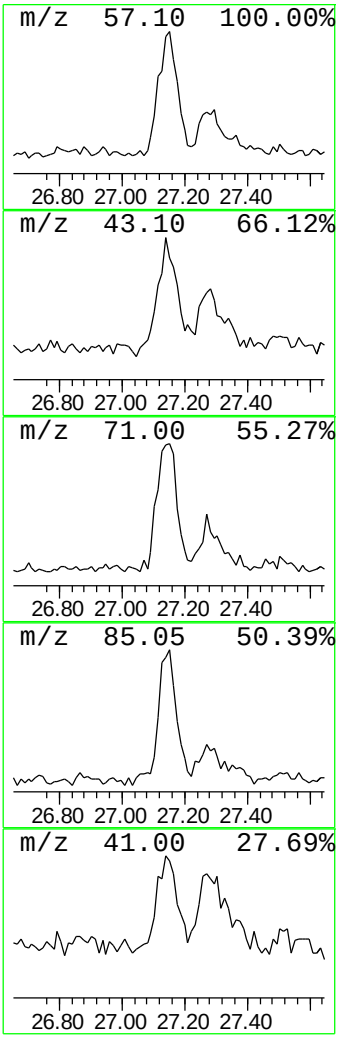
****

Peak Number 18 Tetratetracontane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.15	11.53 ng/ul	758051	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetratetracontane	619	C44H90	007098-22-8	87
2	Octacosane	394	C28H58	000630-02-4	87
3	Tritetracontane	605	C43H88	007098-21-7	86
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	86
5	Nonadecane	268	C19H40	000629-92-5	83





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041313.D
Acq On : 20 Oct 2008 7:01
Operator : QM
Sample : Z4920-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown2.98	2.98	2.5	ng/ul	205461	1	6.69	1629930	20.0
Methacrylamide	3.07	11.8	ng/ul	965113	1	6.69	1629930	20.0
unknown3.14	3.14	4.1	ng/ul	331284	1	6.69	1629930	20.0
unknown3.79	3.79	2.3	ng/ul	187679	1	6.69	1629930	20.0
Guanidine, monoth...	4.26	3.4	ng/ul	273604	1	6.69	1629930	20.0
Cyclobutane-1,1-d...	8.60	2.9	ng/ul	273444	2	9.09	1858860	20.0
unknown13.11	13.11	2.3	ng/ul	263381	3	12.68	2251810	20.0
unknown17.25	17.25	2.5	ng/ul	277462	4	15.77	2244960	20.0
1,3-Propanedione,...	18.23	3.4	ng/ul	378898	4	15.77	2244960	20.0
Octadecanoic acid	18.68	2.0	ng/ul	211141	5	21.32	2084230	20.0
p,p'-DDE	19.03	3.7	ng/ul	387686	5	21.32	2084230	20.0
Mitotane	19.73	2.2	ng/ul	233328	5	21.32	2084230	20.0
p,p'-DDT	20.36	6.1	ng/ul	634826	5	21.32	2084230	20.0
1-Docosene	21.11	14.9	ng/ul	1554520	5	21.32	2084230	20.0
unknown21.84	21.84	2.0	ng/ul	211828	5	21.32	2084230	20.0
Hexadecane, 1-chl...	22.63	7.9	ng/ul	826415	5	21.32	2084230	20.0
13-Tetradecen-1-o...	24.59	38.9	ng/ul	2559950	6	25.15	1315430	20.0
Tetratetracontane	27.15	11.5	ng/ul	758051	6	25.15	1315430	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2-3

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-05

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041308.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 19.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.23 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	19	J
108-95-2	Phenol	39	J
111-44-4	Bis(2-chloroethyl)ether	100	U
95-57-8	2-Chlorophenol	100	U
95-48-7	2-Methylphenol	100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	100	U
98-86-2	Acetophenone	140	
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-di-n-propylamine	100	U
67-72-1	Hexachloroethane	100	U
98-95-3	Nitrobenzene	100	U
78-59-1	Isophorone	100	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	100	U
111-91-1	Bis(2-chloroethoxy)methane	100	U
120-83-2	2,4-Dichlorophenol	100	U
91-20-3	Naphthalene	100	U
106-47-8	4-Chloroaniline	100	U
87-68-3	Hexachlorobutadiene	100	U
105-60-2	Caprolactam	100	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
92-52-4	1,1'-Biphenyl	100	U
91-58-7	2-Chloronaphthalene	100	U
88-74-4	2-Nitroaniline	200	U
131-11-3	Dimethylphthalate	100	U
606-20-2	2,6-Dinitrotoluene	100	U
208-96-8	Acenaphthylene	100	U
99-09-2	3-Nitroaniline	200	U
83-32-9	Acenaphthene	100	U
51-28-5	2,4-Dinitrophenol	200	U
100-02-7	4-Nitrophenol	200	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2-3

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-05

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041308.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 19.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.23 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	100	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
86-73-7	Fluorene	100	U
7005-72-3	4-Chlorophenyl-phenylether	100	U
100-01-6	4-Nitroaniline	200	U
534-52-1	4,6-Dinitro-2-methylphenol	200	U
86-30-6	N-Nitrosodiphenylamine[1]	100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U
101-55-3	4-Bromophenyl-phenylether	100	U
118-74-1	Hexachlorobenzene	100	U
1912-24-9	Atrazine	100	U
87-86-5	Pentachlorophenol	200	U
85-01-8	Phenanthrene	53	J
120-12-7	Anthracene	100	U
86-74-8	Carbazole	100	U
84-74-2	Di-n-butylphthalate	100	U
206-44-0	Fluoranthene	150	
129-00-0	Pyrene	160	
85-68-7	Butylbenzylphthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	100	U
56-55-3	Benzo(a)anthracene	52	J
218-01-9	Chrysene	83	J
117-81-7	Bis(2-ethylhexyl)phthalate	73	JB
117-84-0	Di-n-octylphthalate	100	U
205-99-2	Benzo(b)fluoranthene	68	J
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	54	J
193-39-5	Indeno(1,2,3-cd)pyrene	48	J
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	43	J
58-90-2	2,3,4,6-Tetrachlorophenol	100	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC2-3

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4920-05

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041308.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 19.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.23 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

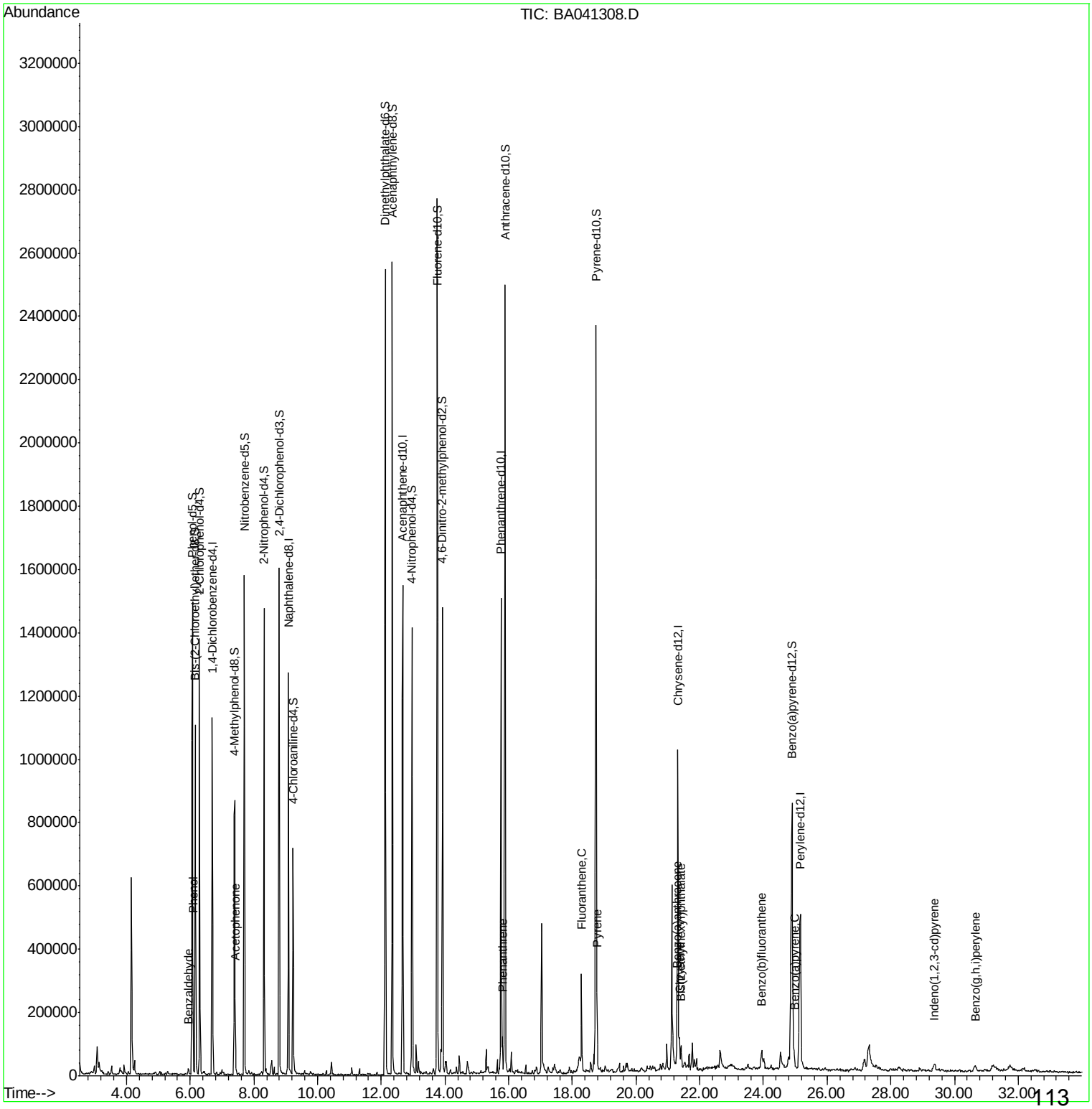
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	72707-66-5	2-(Bromomethyl)acrylic acid	3.07	95	JN
02.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.15	510	A
03.	57-10-3	n-Hexadecanoic acid	17.04	310	JNB
04.	1599-67-3	1-Docosene	21.12	500	JN
05.	295-17-0	Cyclotetradecane	27.32	210	JN
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

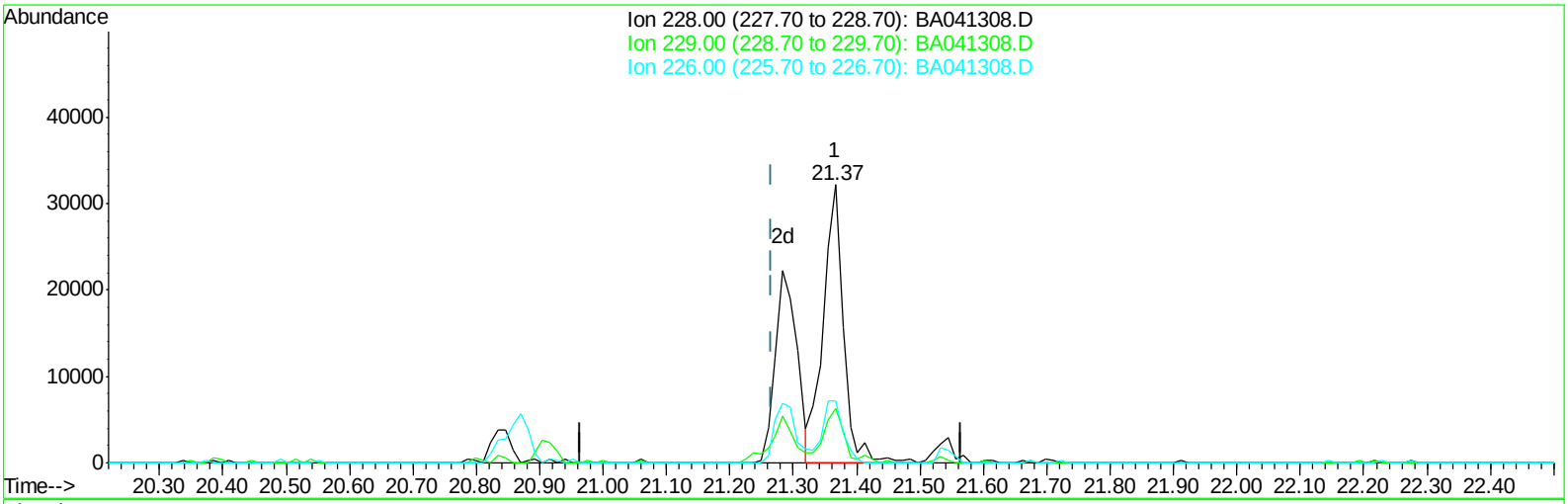
Quant Time: Oct 20 12:22:24 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

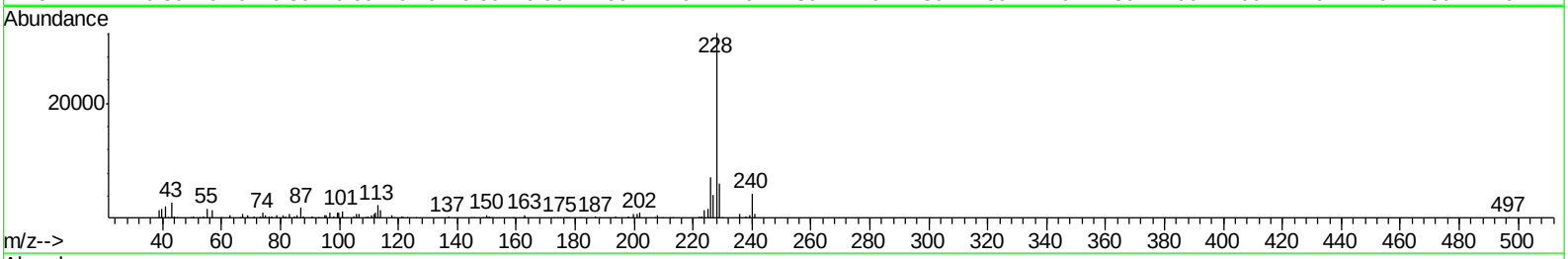


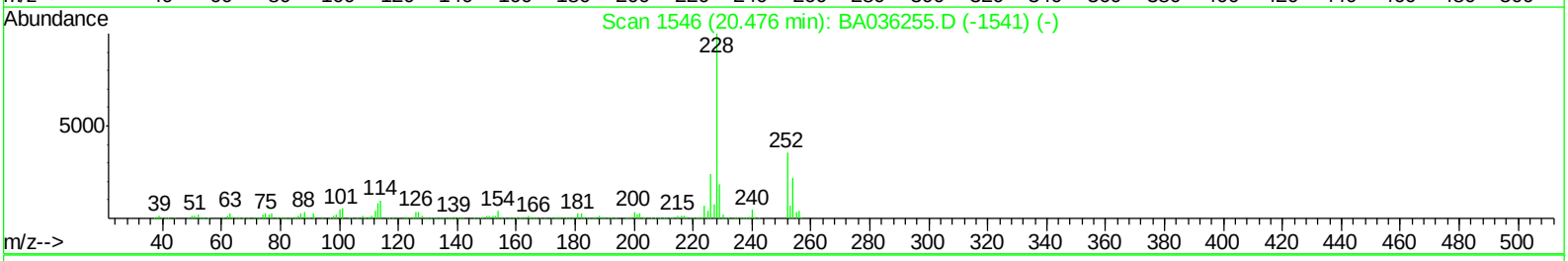
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 20 11:29:47 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







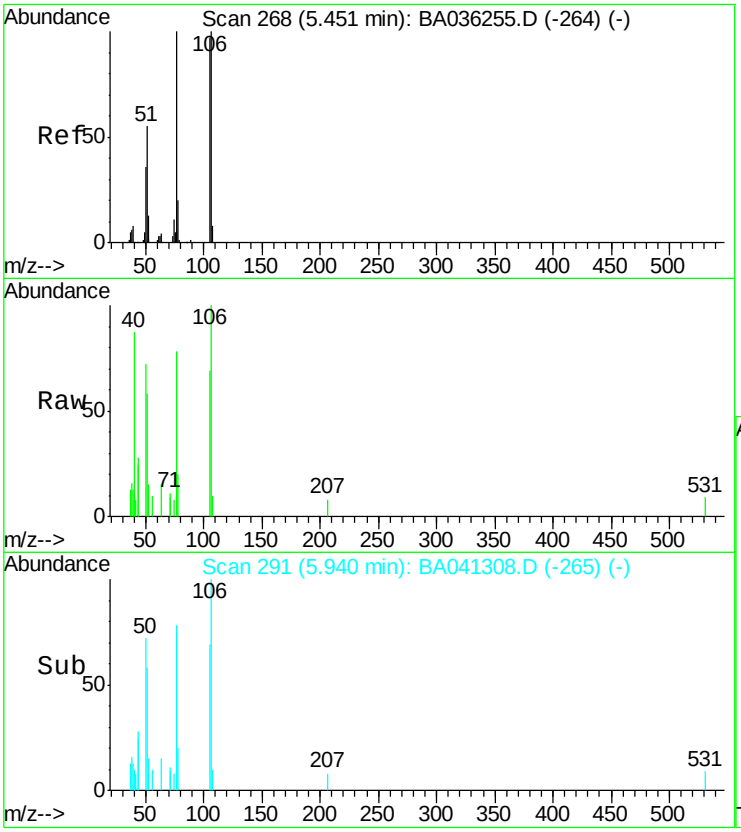
TIC: BA041308.D

(78) Benzo(a)anthracene

21.366min (+0.101) 1.70ng/ul

response 71361

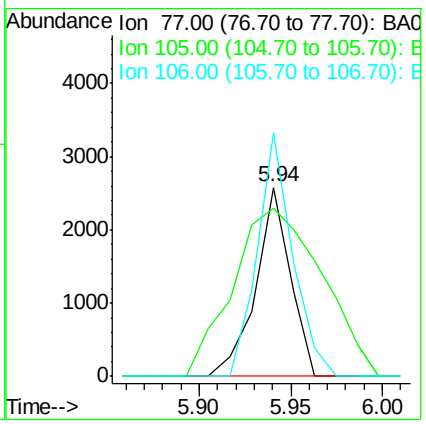
Ion	Exp%	Act%
228.00	100	100
229.00	19.90	19.41
226.00	25.20	22.42
0.00	0.00	0.00

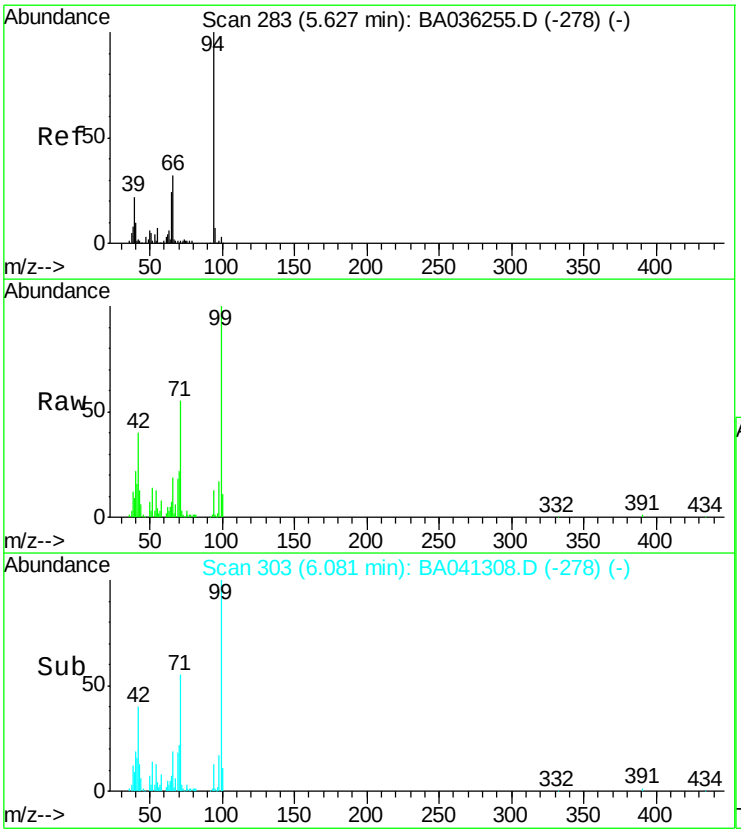


#2
Benzaldehyde
Concen: 0.47 ng/ul
RT: 5.94 min Scan# 291
Delta R.T. 0.00 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion: 77 Resp: 3392

Ion	Ratio	Lower	Upper
77	100		
105	89.1	69.6	104.4
106	128.8	67.9	101.9#

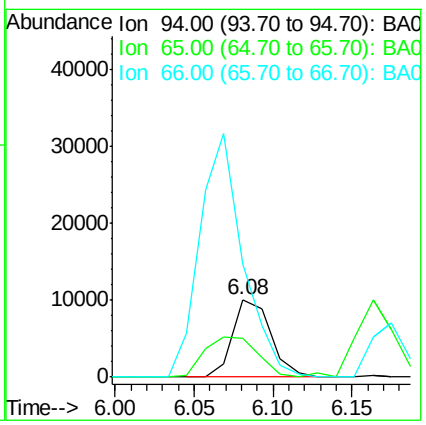


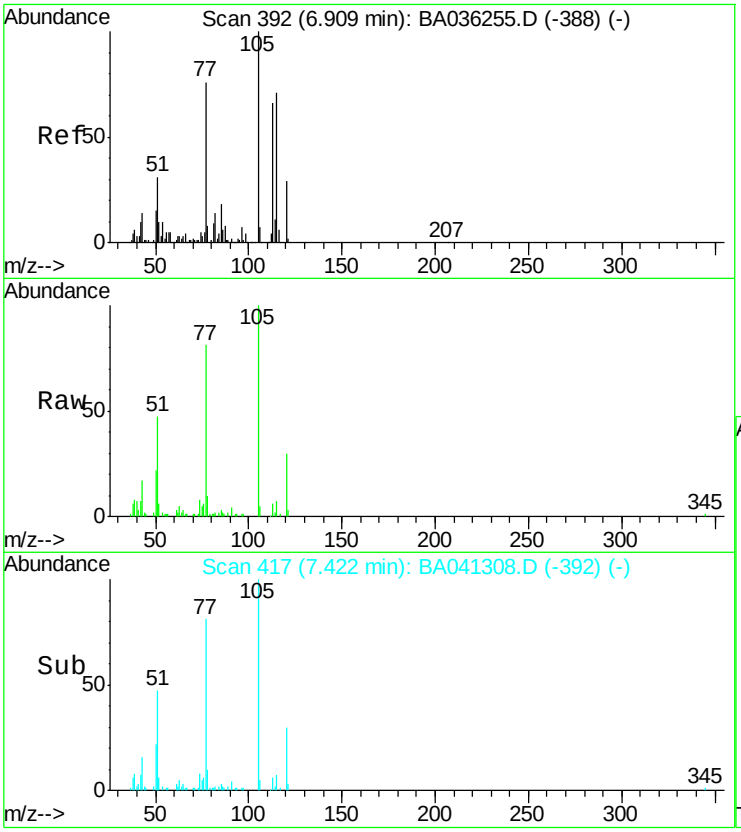


#4
Phenol
Concen: 0.95 ng/ul
RT: 6.08 min Scan# 303
Delta R.T. -0.00 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion: 94 Resp: 16649

Ion	Ratio	Lower	Upper
94	100		
65	50.1	29.0	43.6#
66	146.2	53.7	80.5#

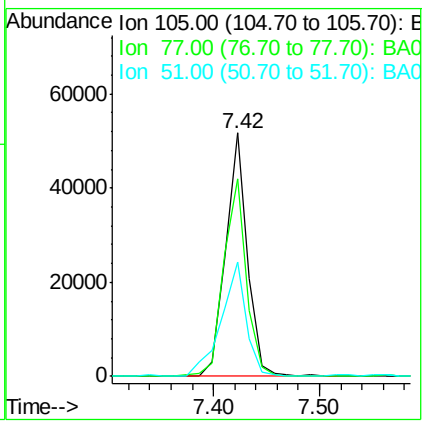


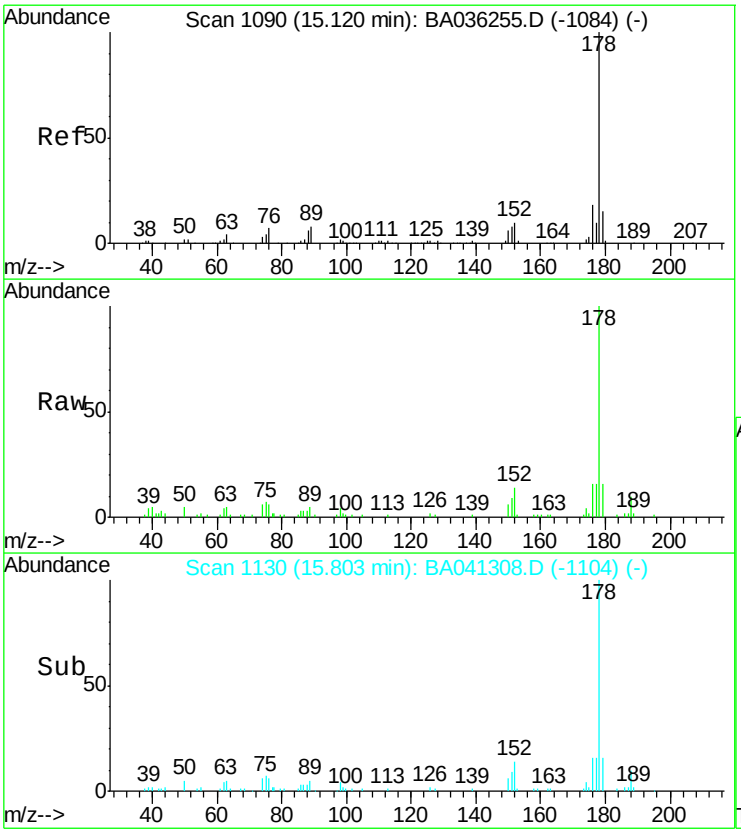


#12
Acetophenone
Concen: 3.45 ng/ul
RT: 7.42 min Scan# 417
Delta R.T. -0.00 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:105 Resp: 73493

Ion	Ratio	Lower	Upper
105	100		
77	81.1	69.4	104.2
51	46.8	42.1	63.1

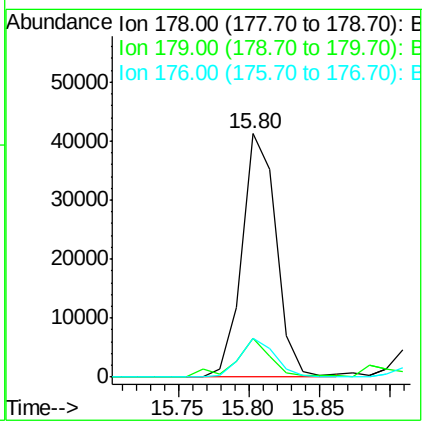


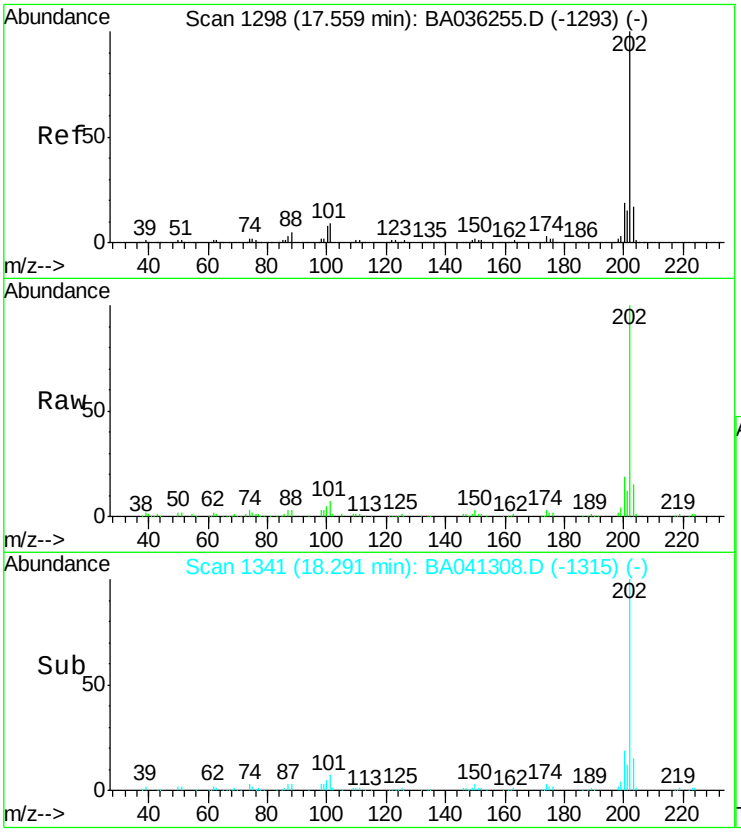


#67
Phenanthrene
Concen: 1.28 ng/ul
RT: 15.80 min Scan# 1130
Delta R.T. -0.00 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:178 Resp: 69445

Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.0	18.0
176	16.1	14.8	22.2

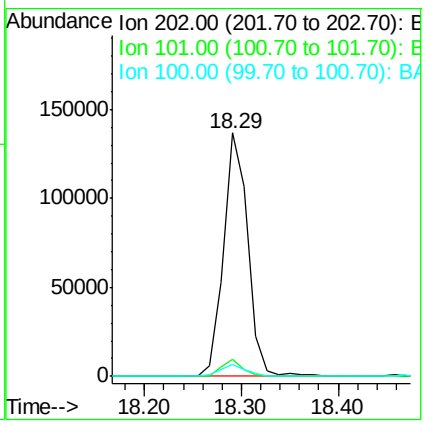


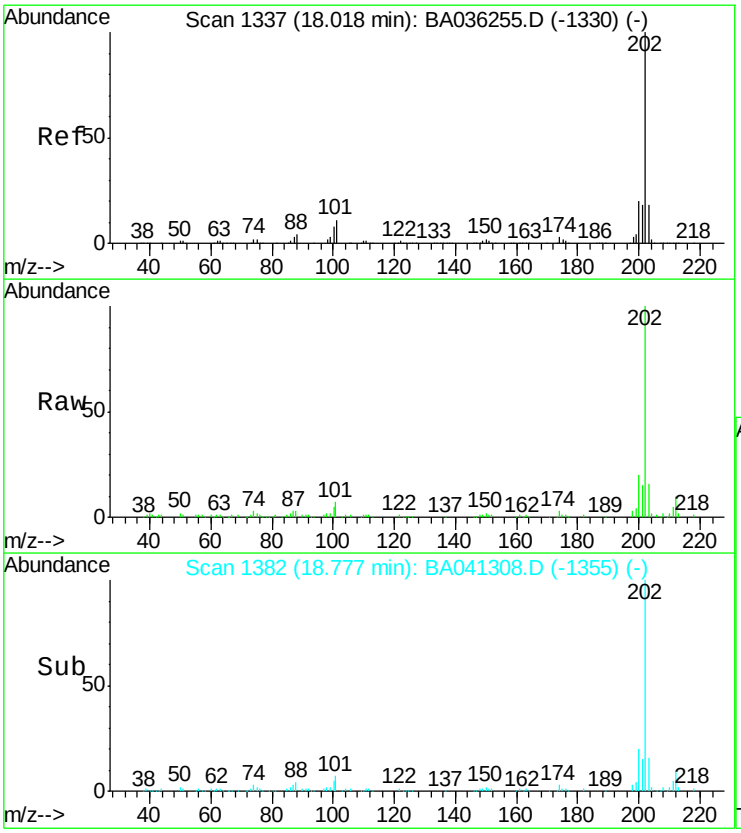


#72
Fluoranthene
Concen: 3.66 ng/ul
RT: 18.29 min Scan# 1341
Delta R.T. 0.01 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:202 Resp: 236353

Ion	Ratio	Lower	Upper
202	100		
101	6.8	2.6	4.0#
100	5.0	2.9	4.3#

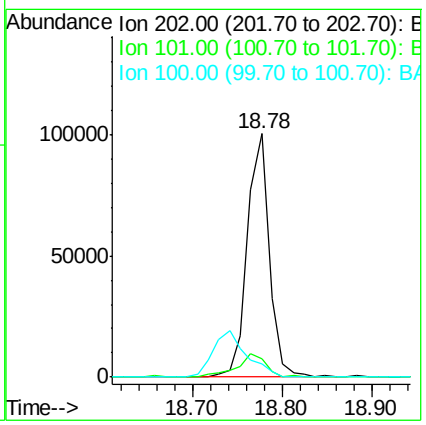


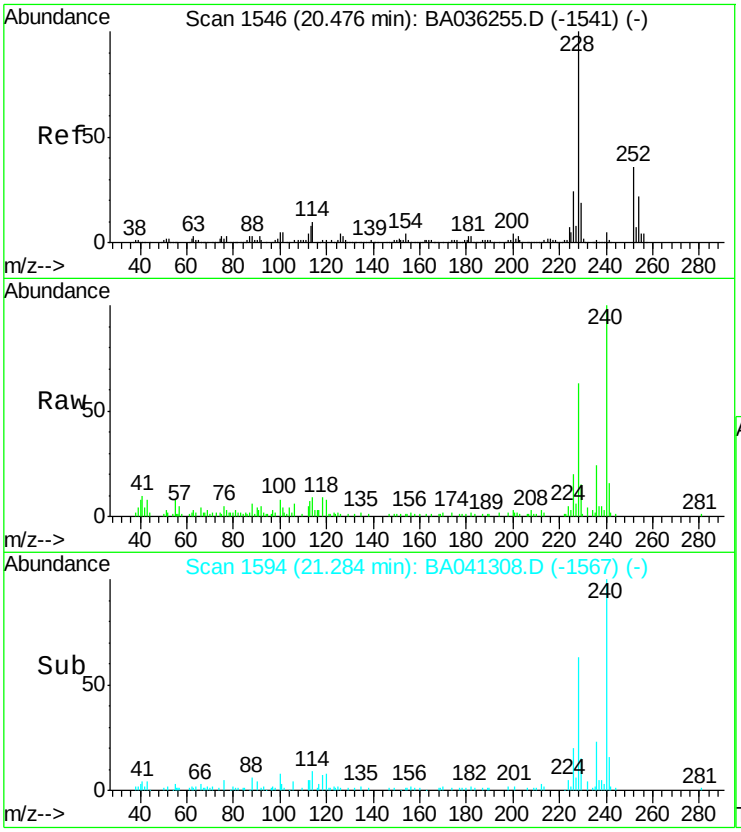


#75
Pyrene
Concen: 3.92 ng/ul
RT: 18.78 min Scan# 1382
Delta R.T. 0.02 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:202 Resp: 171786

Ion	Ratio	Lower	Upper
202	100		
101	7.3	3.5	5.3#
100	5.3	3.4	5.0#

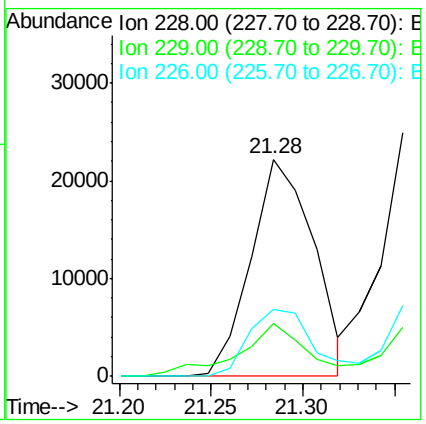


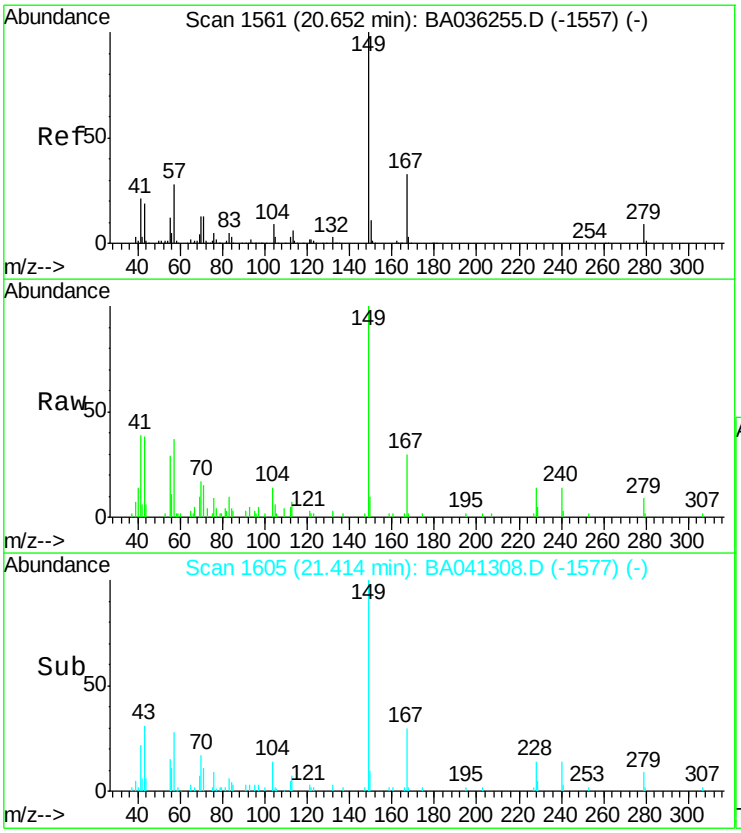


#78
Benzo(a)anthracene
Concen: 1.27 ng/ul m
RT: 21.28 min Scan# 1594
Delta R.T. 0.02 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:228 Resp: 53022

Ion	Ratio	Lower	Upper
228	100		
229	24.4	15.9	23.9#
226	30.8	20.2	30.2#

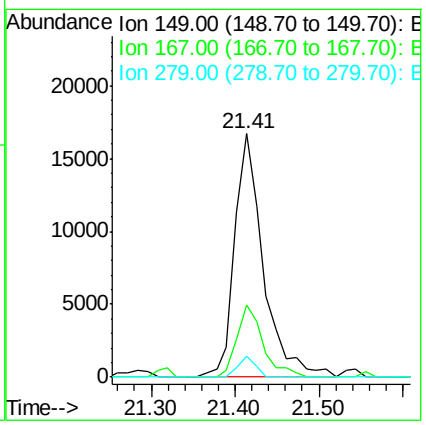


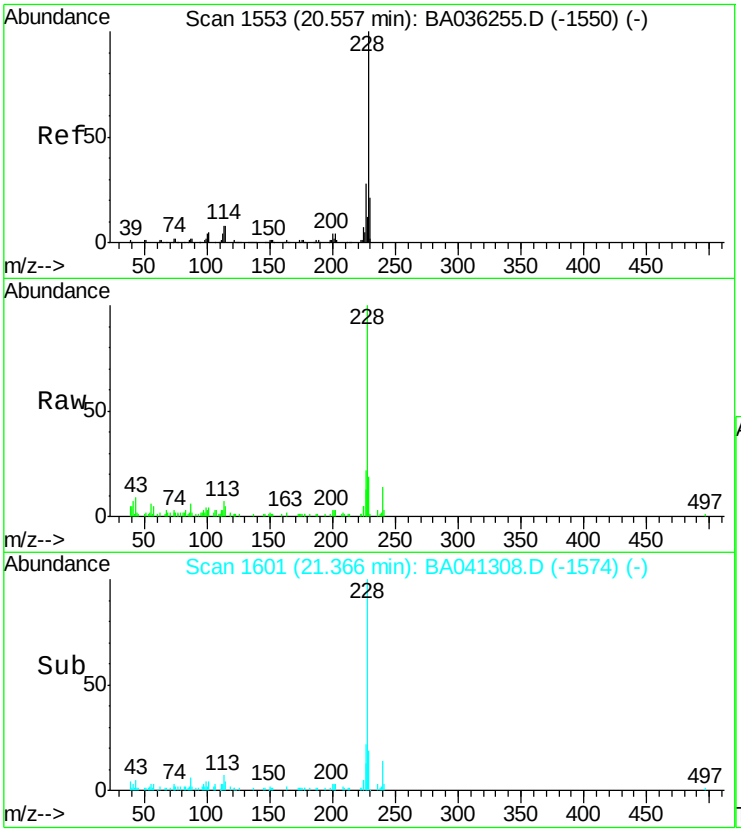


#79
Bis(2-ethylhexyl)phthalate
Concen: 1.78 ng/ul
RT: 21.41 min Scan# 1605
Delta R.T. 0.03 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:149 Resp: 39466

Ion	Ratio	Lower	Upper
149	100		
167	29.5	26.2	39.4
279	8.6	7.7	11.5

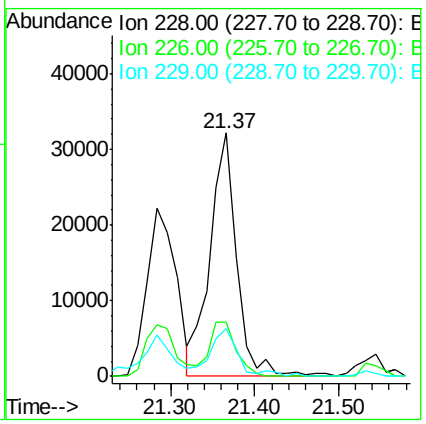


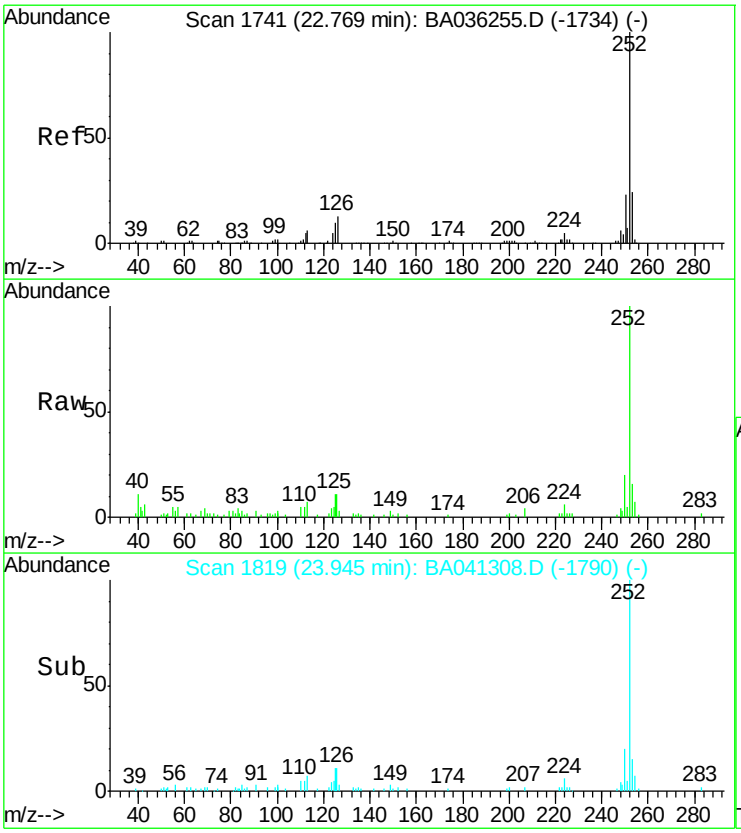


#80
Chrysene
Concen: 2.01 ng/ul
RT: 21.37 min Scan# 1601
Delta R.T. 0.02 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:228 Resp: 71361

Ion	Ratio	Lower	Upper
228	100		
226	22.4	20.6	31.0
229	19.4	14.4	21.6

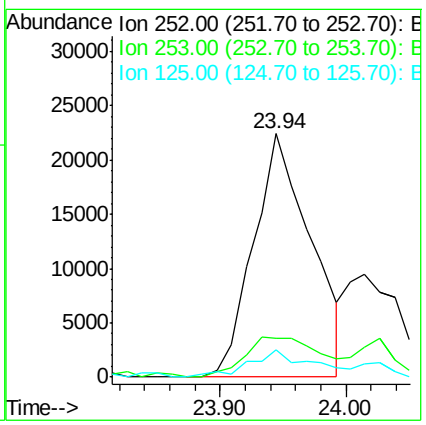


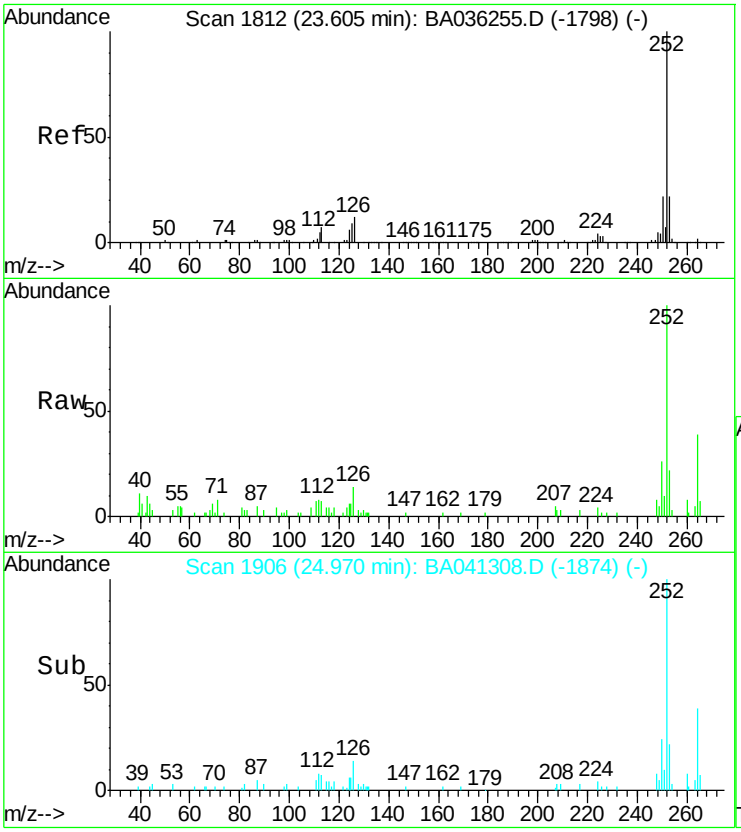


#83
Benzo(b)fluoranthene
Concen: 1.65 ng/ul
RT: 23.94 min Scan# 1819
Delta R.T. 0.05 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:252 Resp: 71228

Ion	Ratio	Lower	Upper
252	100		
253	16.2	16.2	24.2
125	21.9	4.1	6.1#

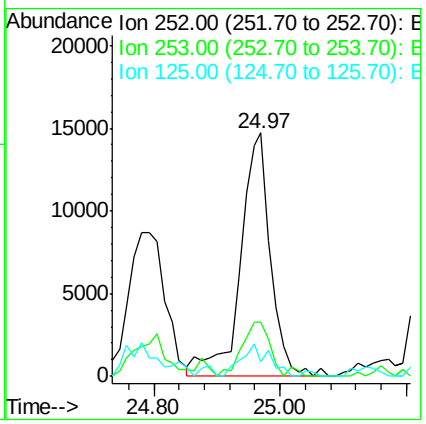


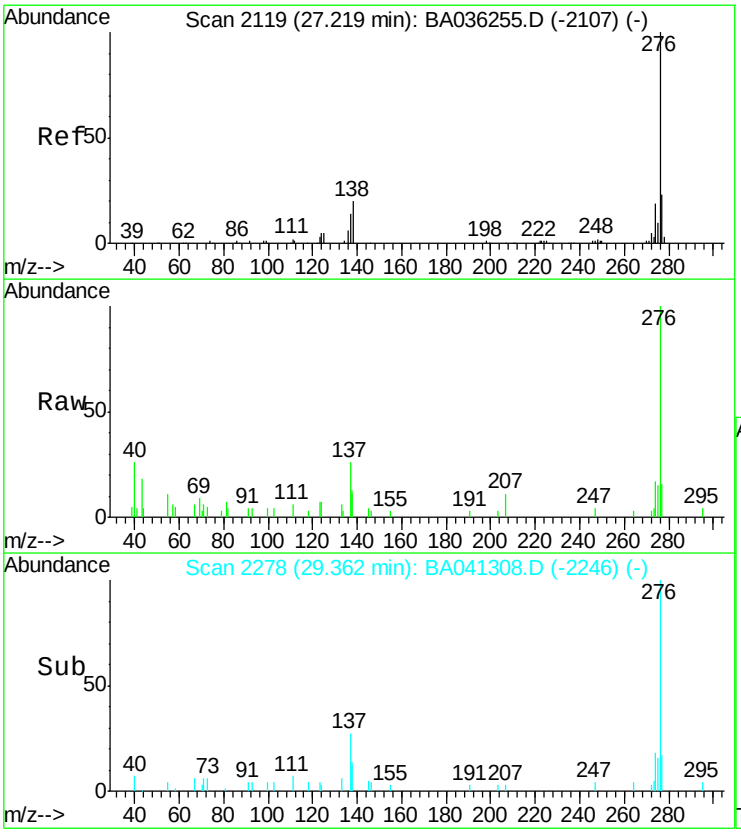


#86
Benzo(a)pyrene
Concen: 1.32 ng/ul
RT: 24.97 min Scan# 1906
Delta R.T. 0.07 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:252 Resp: 48994

Ion	Ratio	Lower	Upper
252	100		
253	22.2	15.1	22.7
125	6.1	3.4	5.2#

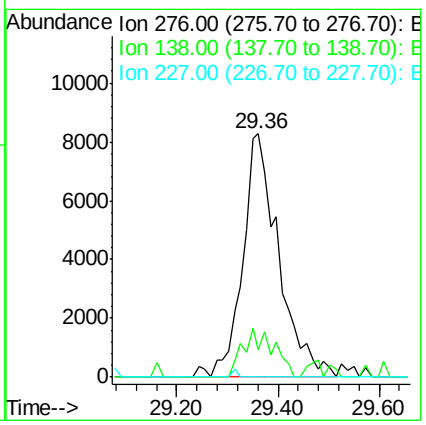


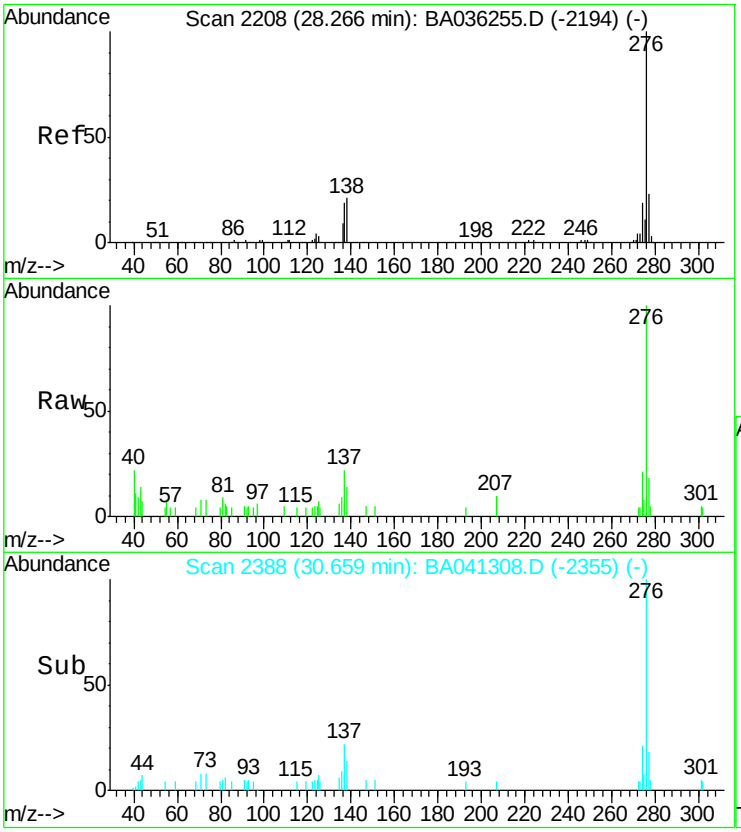


#87
Indeno(1,2,3-cd)pyrene
Concen: 1.17 ng/ul
RT: 29.36 min Scan# 2278
Delta R.T. 0.08 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:276 Resp: 40767

Ion	Ratio	Lower	Upper
276	100		
138	11.1	8.2	12.2
227	0.0	0.0	0.0

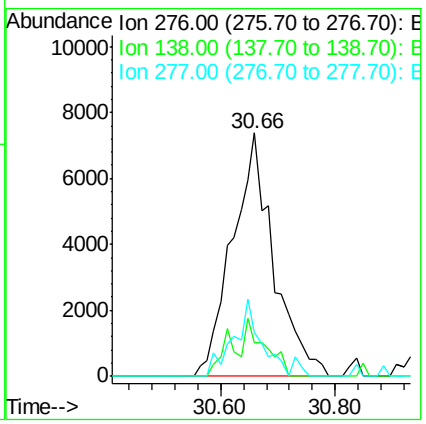




#89
Benzo(g,h,i)perylene
Concen: 1.04 ng/ul
RT: 30.66 min Scan# 2388
Delta R.T. 0.10 min
Lab File: BA041308.D
Acq: 20 Oct 2008 3:36

Tgt Ion:276 Resp: 36773

Ion	Ratio	Lower	Upper
276	100		
138	14.0	10.6	16.0
277	17.9	20.2	30.2#



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 20 12:22:24 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	265457	20.00	ng/ul	0.01
16) Naphthalene-d8	9.08	136	844893	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.68	164	624430	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.77	188	1065355	20.00	ng/ul	0.01
73) Chrysene-d12	21.32	240	789774	20.00	ng/ul	0.03
81) Perylene-d12	25.16	264	661461	20.00	ng/ul	0.08
System Monitoring Compounds						
3) Phenol-d5	6.07	99	556299	34.61	ng/ul	0.01
5) Bis-(2-Chloroethyl)ether-d	6.16	67	410673	37.69	ng/ul	0.01
7) 2-Chlorophenol-d4	6.29	132	481812	35.27	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	231401	21.22	ng/ul	0.01
17) Nitrobenzene-d5	7.70	128	264406	35.35	ng/ul	0.01
20) 2-Nitrophenol-d4	8.33	143	326630	35.47	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.80	165	538662	31.61	ng/ul	0.00
27) 4-Chloroaniline-d4	9.23	131	278969	16.55	ng/ul	0.01
41) Dimethylphthalate-d6	12.13	166	1488365	35.79	ng/ul	0.01
44) Acenaphthylene-d8	12.35	160	1762873	34.87	ng/ul	0.00
49) 4-Nitrophenol-d4	12.97	143	331923	39.16	ng/ul	0.00
55) Fluorene-d10	13.76	176	1174745	35.12	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.92	200	353082	32.03	ng/ul	0.00
68) Anthracene-d10	15.89	188	1626342	31.89	ng/ul	0.02
74) Pyrene-d10	18.74	212	1679201	48.66	ng/ul	0.02
85) Benzo(a)pyrene-d12	24.90	264	1165045	32.34	ng/ul	0.08
Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	3392	0.47	ng/ul#	75
4) Phenol	6.08	94	16649	0.95	ng/ul#	28
12) Acetophenone	7.42	105	73493	3.45	ng/ul	93
67) Phenanthrene	15.80	178	69445	1.28	ng/ul	96
72) Fluoranthene	18.29	202	236353	3.66	ng/ul#	93
75) Pyrene	18.78	202	171786	3.92	ng/ul#	94
78) Benzo(a)anthracene	21.28	228	53022m	1.27	ng/ul	
79) Bis(2-ethylhexyl)phthalate	21.41	149	39466	1.78	ng/ul	95
80) Chrysene	21.37	228	71361	2.01	ng/ul	95
83) Benzo(b)fluoranthene	23.94	252	71228	1.65	ng/ul#	83
86) Benzo(a)pyrene	24.97	252	48994	1.32	ng/ul#	93
87) Indeno(1,2,3-cd)pyrene	29.36	276	40767	1.17	ng/ul	97
89) Benzo(g,h,i)perylene	30.66	276	36773	1.04	ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.989	36	40	44	rVB2	27147	64456	1.31%	0.094%
2	3.072	44	47	51	rBV	86293	205668	4.17%	0.300%
3	3.142	51	53	57	rVB	30546	58510	1.19%	0.085%
4	3.530	83	86	89	rBV2	25406	37921	0.77%	0.055%
5	3.801	105	109	110	rBV2	19719	37684	0.76%	0.055%
6	3.930	118	120	128	rVB2	31560	70049	1.42%	0.102%
7	4.060	128	131	135	rBV2	11002	23806	0.48%	0.035%
8	4.154	135	139	145	rVV	622297	1113950	22.60%	1.628%
9	4.249	145	147	153	rVB	42792	85505	1.73%	0.125%
10	4.918	200	204	209	rVB3	9070	28732	0.58%	0.042%
11	5.047	209	215	218	rBV3	12705	31334	0.64%	0.046%
12	5.940	287	291	296	rVV3	19604	56363	1.14%	0.082%
13	6.069	298	302	307	rVV	1495014	2360135	47.89%	3.448%
14	6.163	307	310	318	rVV	1105354	1630282	33.08%	2.382%
15	6.293	318	321	327	rVV	1377621	2228596	45.22%	3.256%
16	6.446	332	334	339	rVB3	11123	23075	0.47%	0.034%
17	6.693	352	355	364	rVV	1129119	1777710	36.07%	2.597%
18	6.999	379	381	384	rVV2	15574	34813	0.71%	0.051%
19	7.399	411	415	423	rVV2	868217	1714895	34.79%	2.506%
20	7.704	437	441	444	rBV	1578453	2343090	47.54%	3.423%
21	7.845	448	453	455	rVV3	14455	31064	0.63%	0.045%
22	8.244	482	487	490	rBV3	11287	24338	0.49%	0.036%
23	8.326	490	494	497	rBV	1473248	2204469	44.73%	3.221%
24	8.385	497	499	503	rVB3	17520	32762	0.66%	0.048%
25	8.562	507	514	518	rBV4	45159	104965	2.13%	0.153%
26	8.644	518	521	524	rVB2	26011	35997	0.73%	0.053%
27	8.786	530	533	537	rBV	1601529	2727790	55.34%	3.985%
28	9.081	555	558	561	rBV	1269898	1958903	39.74%	2.862%
29	9.233	568	571	581	rBV	713001	1135466	23.04%	1.659%
30	9.775	613	617	623	rBV3	12390	35764	0.73%	0.052%
31	10.445	671	674	676	rVV2	40015	69926	1.42%	0.102%
32	11.069	724	727	733	rVB2	23069	40836	0.83%	0.060%
33	11.315	745	748	751	rBV2	19708	29910	0.61%	0.044%
34	12.126	813	817	820	rBV	2545816	3752643	76.14%	5.483%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.349	832	836	839	rBV	2567315	3885179	78.83%	5.677%
36	12.678	860	864	867	rBV	1543664	2490238	50.53%	3.638%
37	12.971	884	889	892	rBV	1411462	2603117	52.82%	3.803%
38	13.100	897	900	904	rVV	91999	143241	2.91%	0.209%
39	13.170	904	906	910	rVB2	40048	65040	1.32%	0.095%
40	13.642	940	946	950	rVB5	19023	54046	1.10%	0.079%
41	13.759	950	956	959	rBV	2769482	4430418	89.89%	6.473%
42	13.924	963	970	973	rVV	1474027	2389411	48.48%	3.491%
43	14.018	975	978	985	rVB3	40493	133587	2.71%	0.195%
44	14.183	988	992	995	rBV4	14105	33966	0.69%	0.050%
45	14.357	1004	1007	1011	rVV2	24651	47567	0.97%	0.069%
46	14.452	1012	1015	1019	rVV	57933	96882	1.97%	0.142%
47	14.710	1034	1037	1038	rBV2	39022	64595	1.31%	0.094%
48	15.297	1085	1087	1089	rVV	74667	111660	2.27%	0.163%
49	15.356	1089	1092	1094	rVB	19057	34482	0.70%	0.050%
50	15.638	1114	1116	1119	rVB	45712	74147	1.50%	0.108%
51	15.709	1119	1122	1123	rBV2	19029	39015	0.79%	0.057%
52	15.768	1123	1127	1129	rBV	1488354	2647670	53.72%	3.868%
53	15.803	1129	1130	1133	rVB	105341	128930	2.62%	0.188%
54	15.886	1133	1137	1140	rBV	2481211	4246534	86.16%	6.204%
55	16.086	1152	1154	1157	rVV2	64816	94544	1.92%	0.138%
56	16.227	1162	1166	1167	rBV3	11401	23809	0.48%	0.035%
57	16.534	1190	1192	1195	rVB3	29339	45566	0.92%	0.067%
58	16.828	1213	1217	1218	rBV	13271	27630	0.56%	0.040%
59	16.875	1218	1221	1225	rVB2	20376	42216	0.86%	0.062%
60	17.039	1230	1235	1246	rBV3	470598	988920	20.06%	1.445%
61	17.251	1249	1253	1255	rBV4	20821	54912	1.11%	0.080%
62	17.393	1262	1265	1266	rBV2	17704	32780	0.67%	0.048%
63	17.429	1266	1268	1277	rVV5	30362	101992	2.07%	0.149%
64	17.618	1281	1284	1292	rVB6	14711	37735	0.77%	0.055%
65	17.913	1305	1309	1313	rVV2	20988	45762	0.93%	0.067%
66	18.220	1328	1335	1338	rVV7	46775	206333	4.19%	0.301%
67	18.291	1338	1341	1345	rVB	304205	549428	11.15%	0.803%
68	18.433	1351	1353	1357	rBV3	8968	26126	0.53%	0.038%
69	18.575	1361	1365	1370	rBV2	33128	73205	1.49%	0.107%
70	18.670	1370	1373	1375	rBV	56545	119646	2.43%	0.175%
71	18.741	1375	1379	1386	rVB	2352180	4928720	100.00%	7.201%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

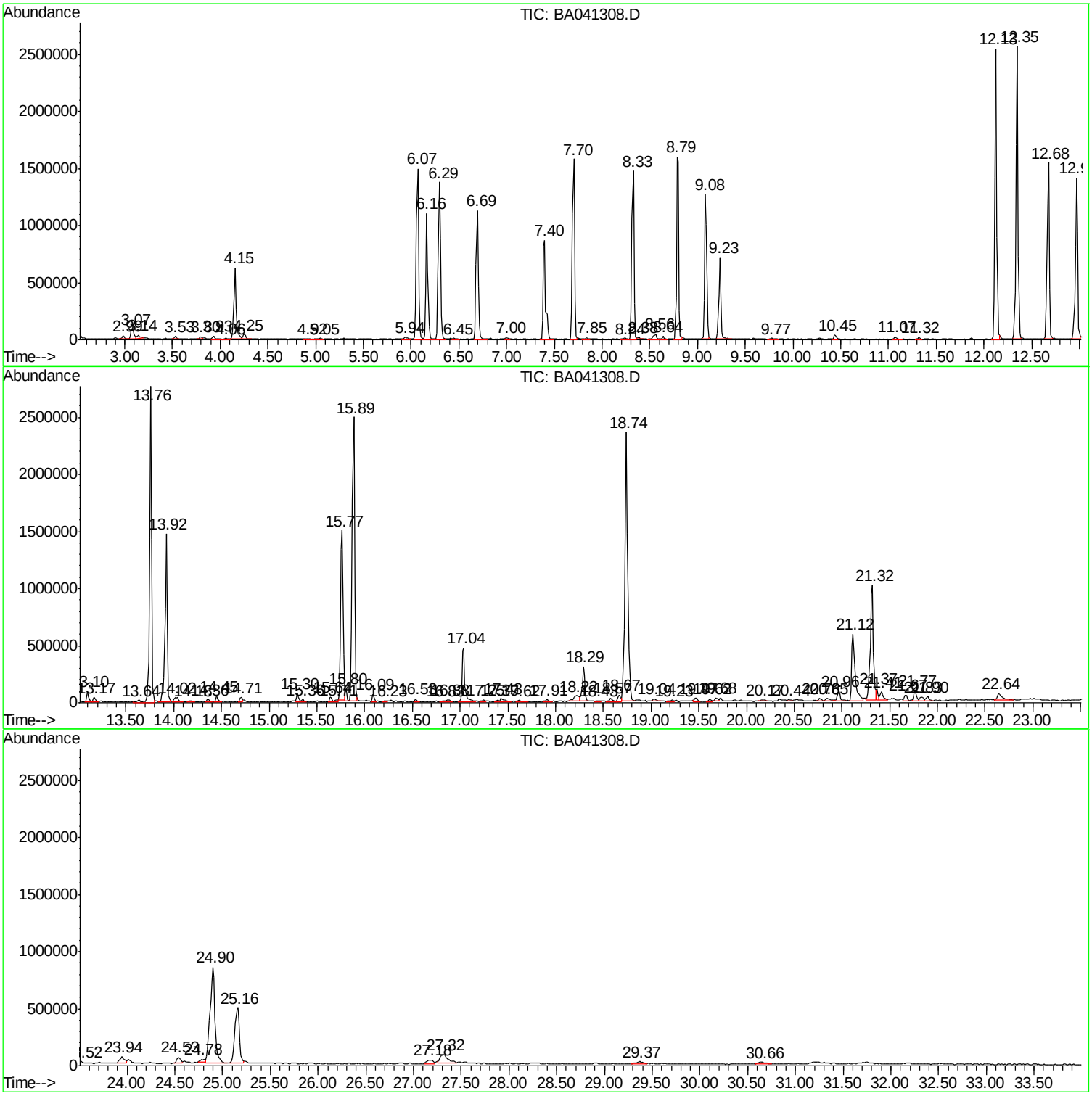
72	19.037	1401	1404	1409	rVV6	18754	43584	0.88%	0.064%
73	19.226	1414	1420	1422	rBV5	10985	42653	0.87%	0.062%
74	19.475	1438	1441	1444	rVB	28623	60855	1.23%	0.089%
75	19.617	1450	1453	1455	rBV2	20555	36829	0.75%	0.054%
76	19.676	1455	1458	1461	rBV4	27626	69468	1.41%	0.101%
77	20.172	1496	1500	1504	rVV6	11825	39803	0.81%	0.058%
78	20.444	1521	1523	1526	rVB3	13970	25633	0.52%	0.037%
79	20.763	1548	1550	1554	rVB5	18322	38811	0.79%	0.057%
80	20.846	1554	1557	1562	rBV4	20696	63162	1.28%	0.092%
81	20.964	1564	1567	1574	rVB2	83402	162563	3.30%	0.238%
82	21.118	1576	1580	1589	rBV	583244	1409930	28.61%	2.060%
83	21.319	1591	1597	1600	rVV	1004835	2293931	46.54%	3.352%
84	21.366	1600	1601	1603	rVV	96833	124058	2.52%	0.181%
85	21.414	1603	1605	1610	rVB	68805	152025	3.08%	0.222%
86	21.674	1624	1627	1630	rVB	50587	103715	2.10%	0.152%
87	21.769	1632	1635	1638	rVV	87334	168521	3.42%	0.246%
88	21.828	1638	1640	1643	rVV3	33762	84795	1.72%	0.124%
89	21.899	1643	1646	1650	rVB4	37544	83949	1.70%	0.123%
90	22.642	1705	1709	1722	rVB4	57577	216121	4.38%	0.316%
91	23.518	1780	1783	1787	rVB5	14294	33262	0.67%	0.049%
92	23.945	1815	1819	1823	rBV2	54620	184282	3.74%	0.269%
93	24.535	1865	1869	1873	rBV2	52119	154632	3.14%	0.226%
94	24.781	1887	1890	1893	rBV5	30732	88814	1.80%	0.130%
95	24.899	1893	1900	1912	rVB	839671	3132313	63.55%	4.577%
96	25.159	1915	1922	1927	rBV	486552	1657255	33.62%	2.421%
97	27.178	2087	2093	2097	rBV6	32155	136416	2.77%	0.199%
98	27.320	2099	2105	2116	rVB7	72477	416127	8.44%	0.608%
99	29.374	2271	2279	2285	rBV3	20981	93164	1.89%	0.136%
100	30.659	2381	2388	2395	rVB7	17732	96067	1.95%	0.140%

Sum of corrected areas: 68443194

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

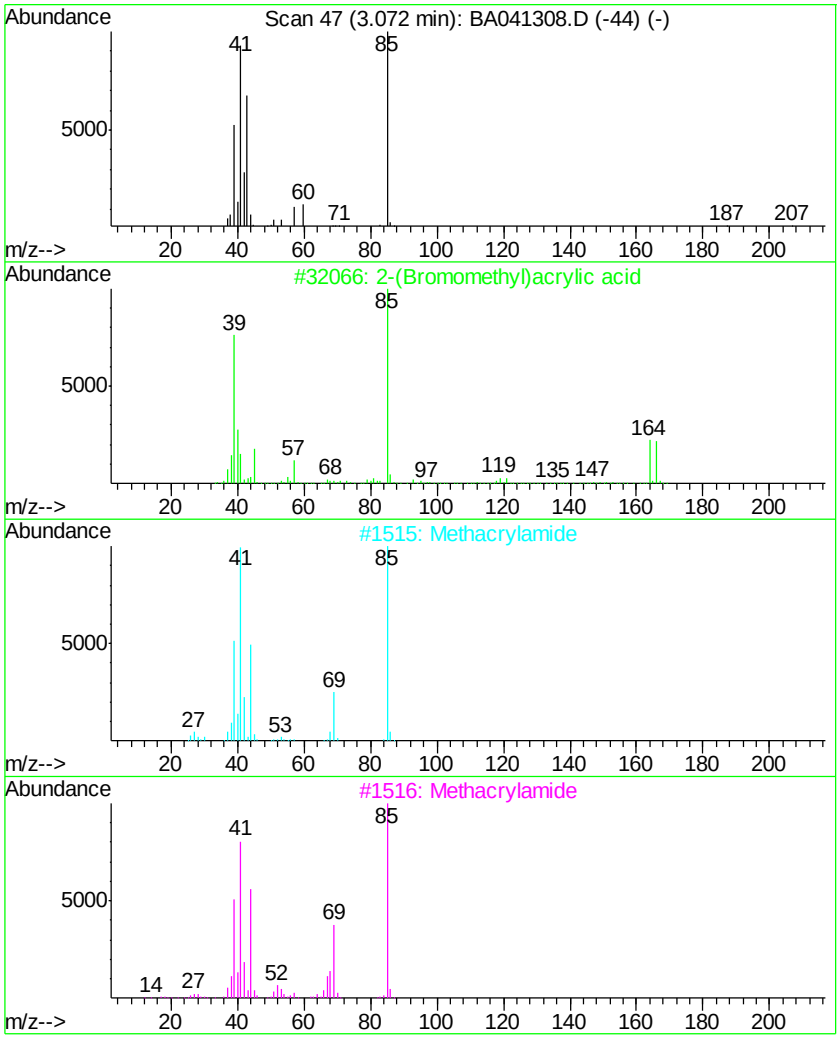
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

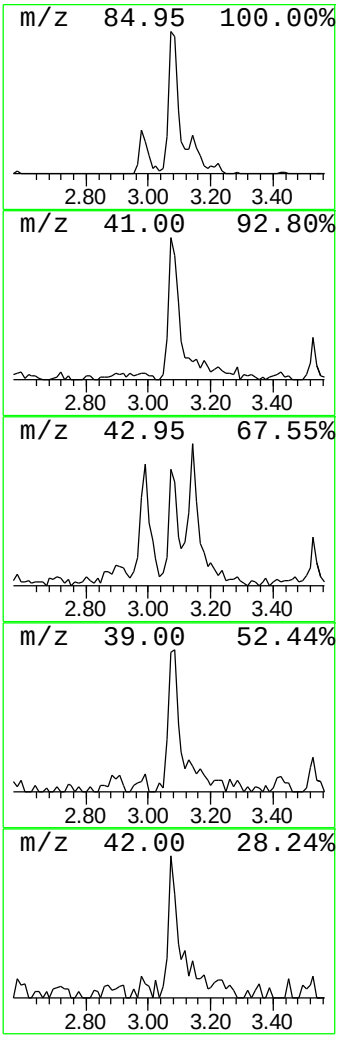
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-(Bromomethyl)acrylic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.07	2.31 ng/ul	205668	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(Bromomethyl)acrylic acid	164	C4H5BrO2	072707-66-5	53
2	Methacrylamide	85	C4H7NO	000079-39-0	50
3	Methacrylamide	85	C4H7NO	000079-39-0	50
4	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	43
5	Methacrylamide	85	C4H7NO	000079-39-0	39





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

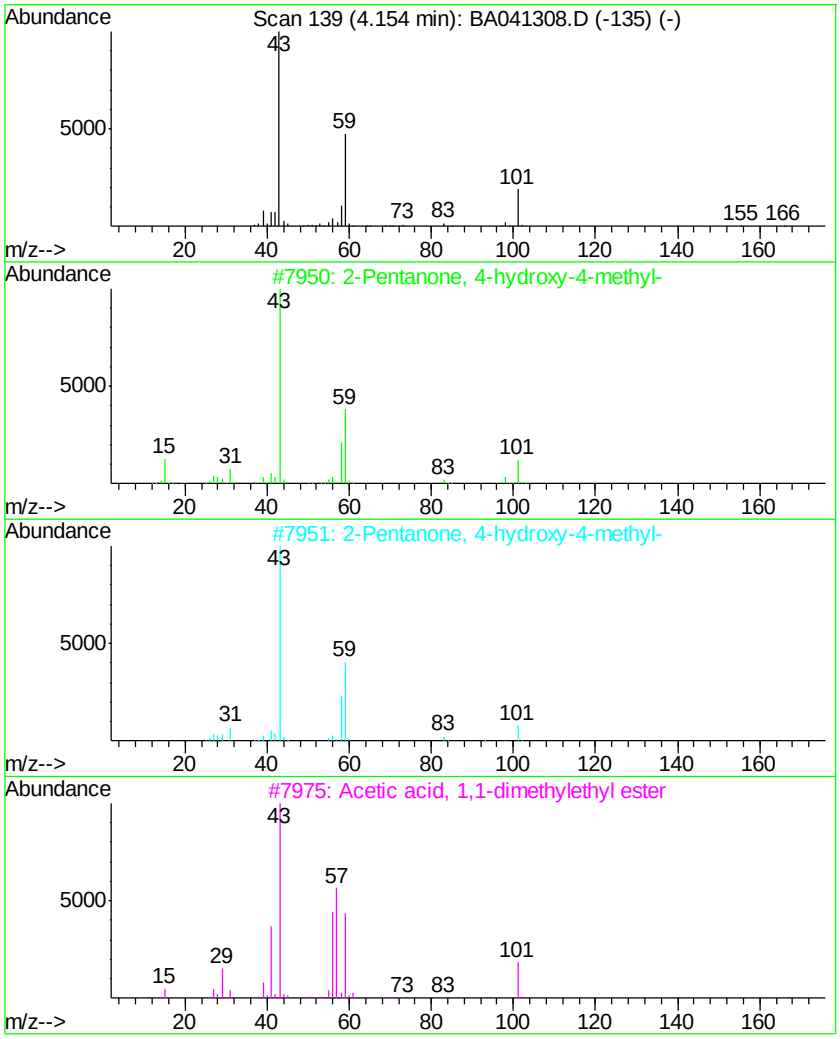
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

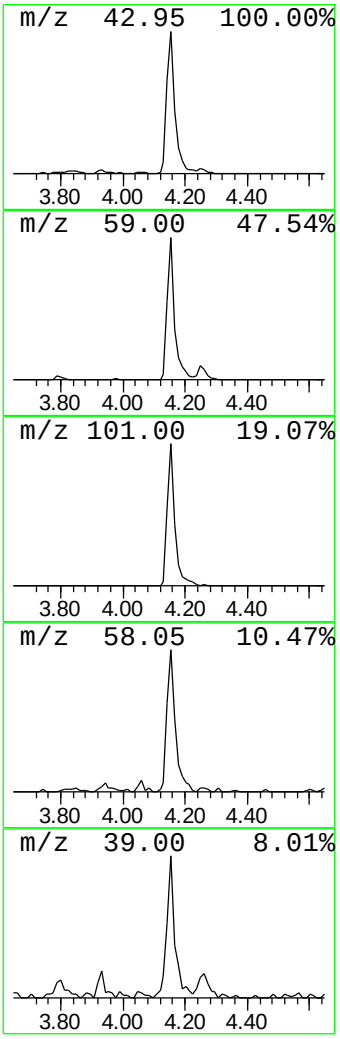
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.15	12.53 ng/ul	1113950	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	35
5	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	17





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

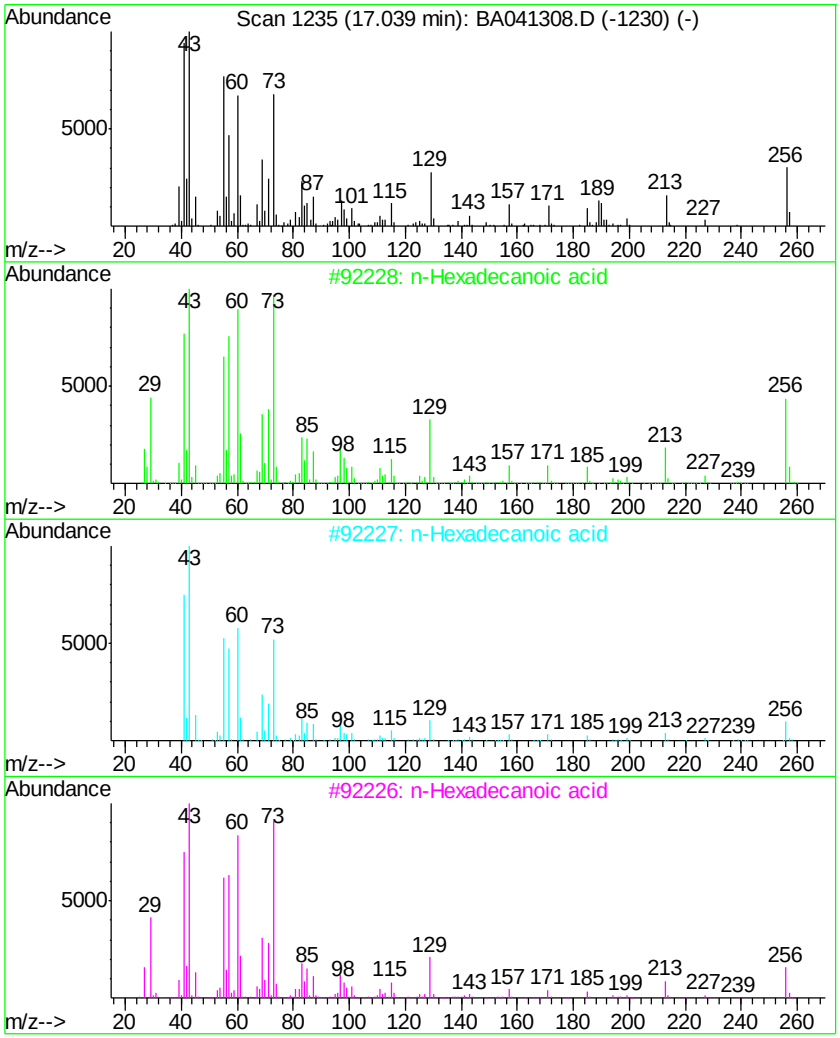
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

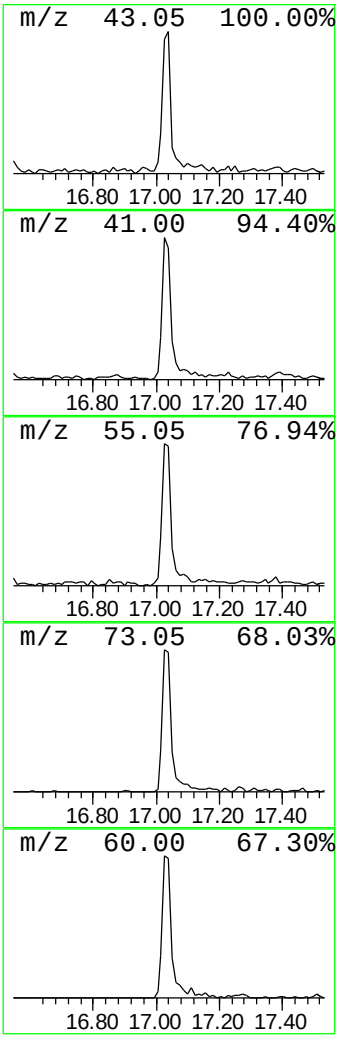
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.04	7.47 ng/ul	988920	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	45
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	43
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	38





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

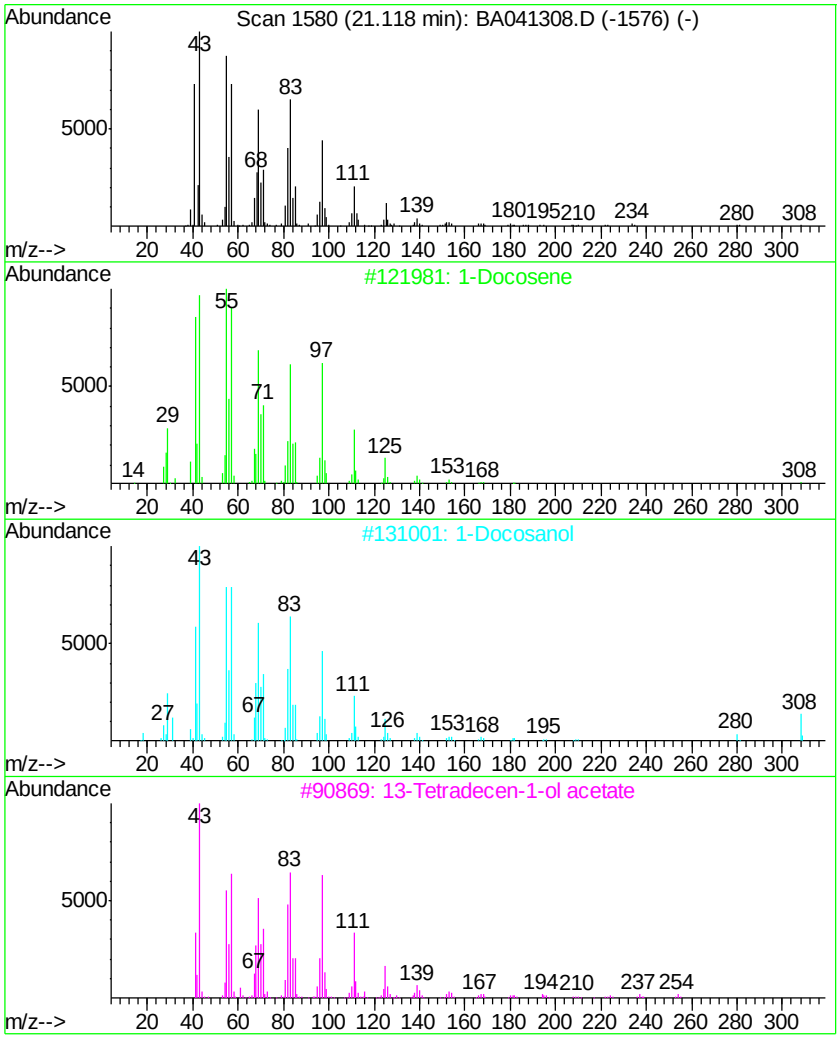
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

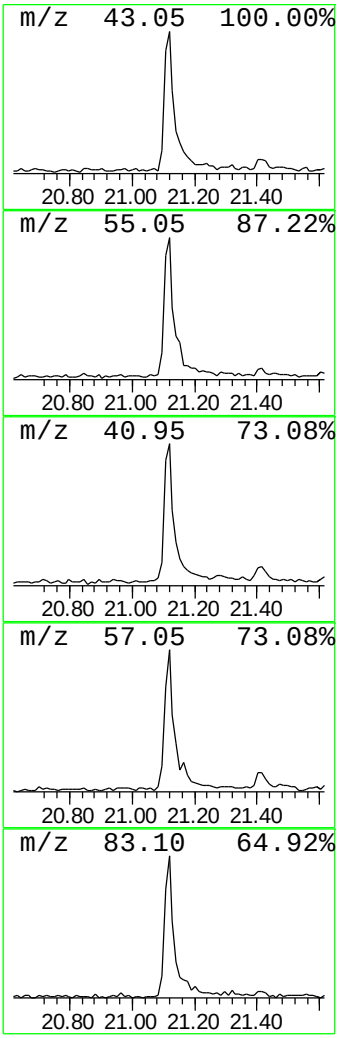
****

Peak Number 4 1-Docosene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.12	12.29 ng/ul	1409930	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	99
2	1-Docosanol	326	C22H46O	000661-19-8	91
3	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	91
4	1-Eicosanol	298	C20H42O	000629-96-9	87
5	1-Docosanol	326	C22H46O	000661-19-8	83





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

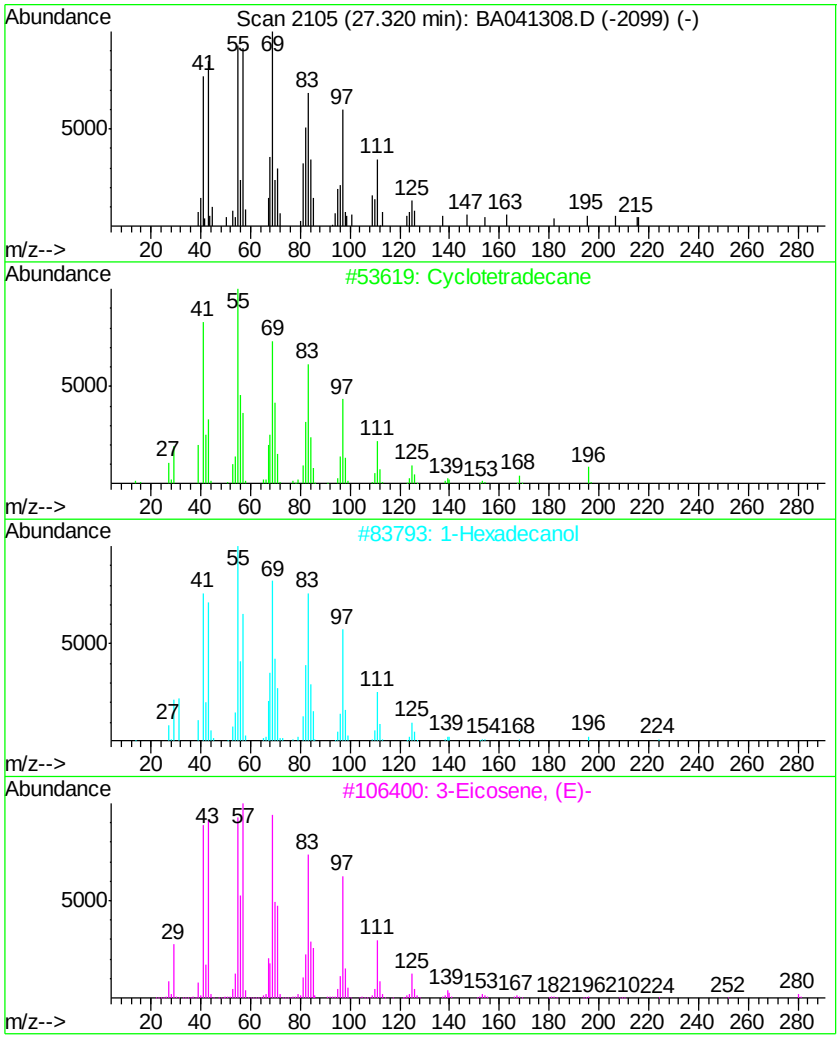
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

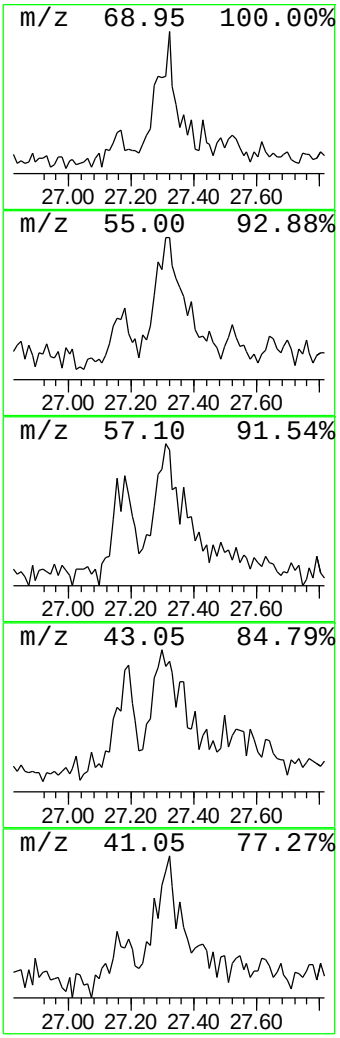
****

Peak Number 5 Cyclotetradecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.32	5.02 ng/ul	416127	Perylene-d12	25.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetradecane	196	C14H28	000295-17-0	86
2	1-Hexadecanol	242	C16H34O	036653-82-4	83
3	3-Eicosene, (E)-	280	C20H40	074685-33-9	64
4	Bromoacetic acid, pentadecyl ester	348	C17H33BrO2	131143-01-6	64
5	1-Tridecanol	200	C13H28O	000112-70-9	64





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041308.D
Acq On : 20 Oct 2008 3:36
Operator : QM
Sample : Z4920-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-(Bromomethyl)ac...	3.07	2.3	ng/ul	205668	1	6.69	1777710	20.0
2-Pentanone, 4-hy...	4.15	12.5	ng/ul	1113950	1	6.69	1777710	20.0
n-Hexadecanoic acid	17.04	7.5	ng/ul	988920	4	15.77	2647670	20.0
1-Docosene	21.12	12.3	ng/ul	1409930	5	21.32	2293930	20.0
Cyclotetradecane	27.32	5.0	ng/ul	416127	6	25.16	1657260	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-1

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-06

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041326.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.51 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	97	J
108-95-2	Phenol	93	J
111-44-4	Bis(2-chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-Oxybis(1-chloropropane)	480	U
98-86-2	Acetophenone	390	J
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	Bis(2-chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	480	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	940	U
83-32-9	Acenaphthene	480	U
51-28-5	2,4-Dinitrophenol	940	U
100-02-7	4-Nitrophenol	940	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-1

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-06

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041326.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.51 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
100-01-6	4-Nitroaniline	940	U
534-52-1	4,6-Dinitro-2-methylphenol	940	U
86-30-6	N-Nitrosodiphenylamine[1]	560	
95-94-3	1,2,4,5-Tetrachlorobenzene	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
1912-24-9	Atrazine	480	U
87-86-5	Pentachlorophenol	940	U
85-01-8	Phenanthrene	110	J
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-butylphthalate	460	J
206-44-0	Fluoranthene	280	J
129-00-0	Pyrene	360	J
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	130	J
218-01-9	Chrysene	190	J
117-81-7	Bis(2-ethylhexyl)phthalate	410	JB
117-84-0	Di-n-octylphthalate	480	U
205-99-2	Benzo(b)fluoranthene	170	J
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenzo(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U
58-90-2	2,3,4,6-Tetrachlorophenol	480	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC5-1

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4920-06

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041326.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 12.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.51 Dilution Factor: 5.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

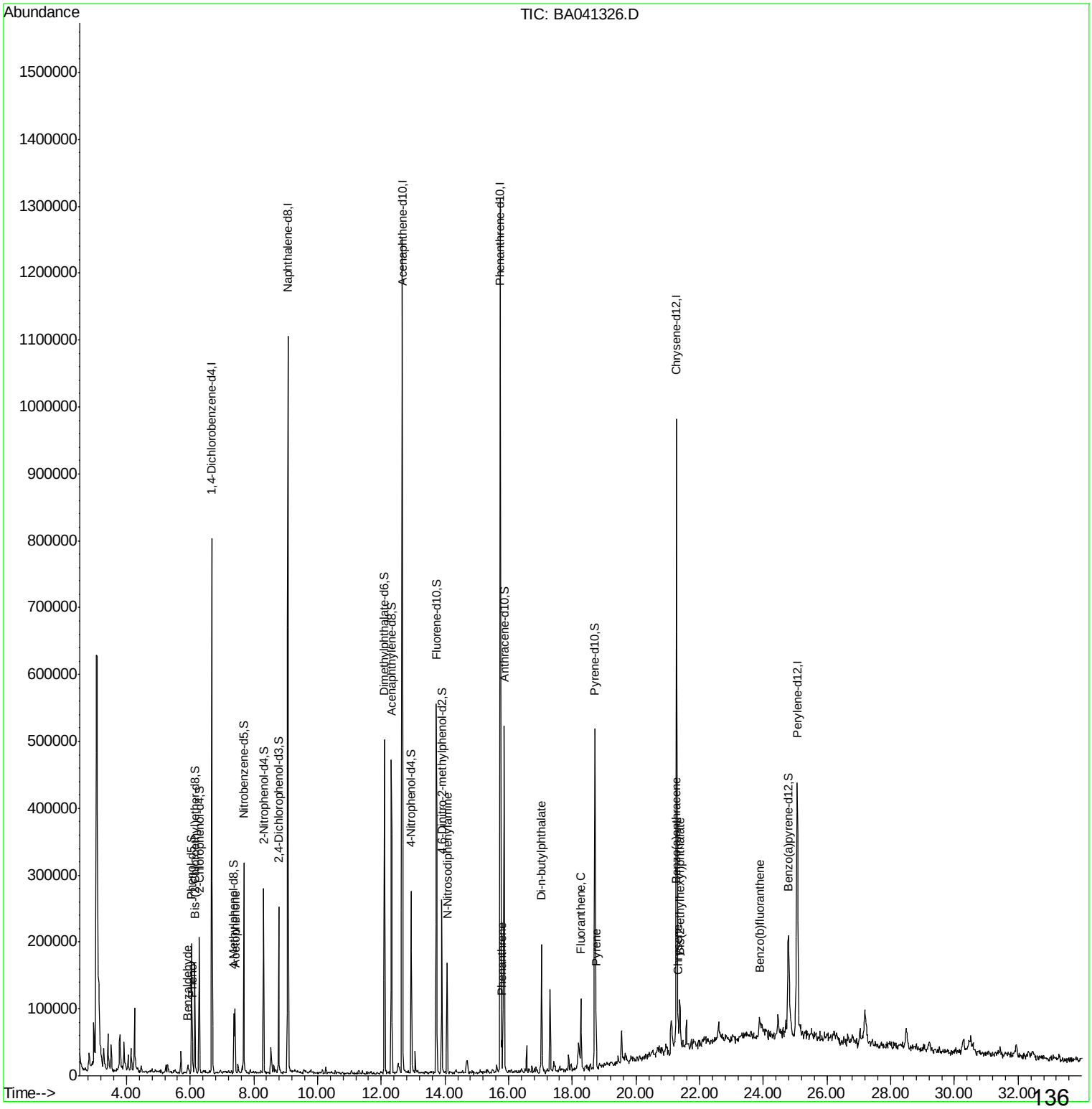
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.		unknown2.98	2.98	380	J
02.	354-21-2	Ethane, 1,2,2-trichloro-1,1-dif	3.06	6200	JN
03.	56960-89-5	Guanidine, monothiocyanate	4.25	490	JN
04.	16240-38-3	Cycloheptanol, 2-methylene	21.11	400	JN
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

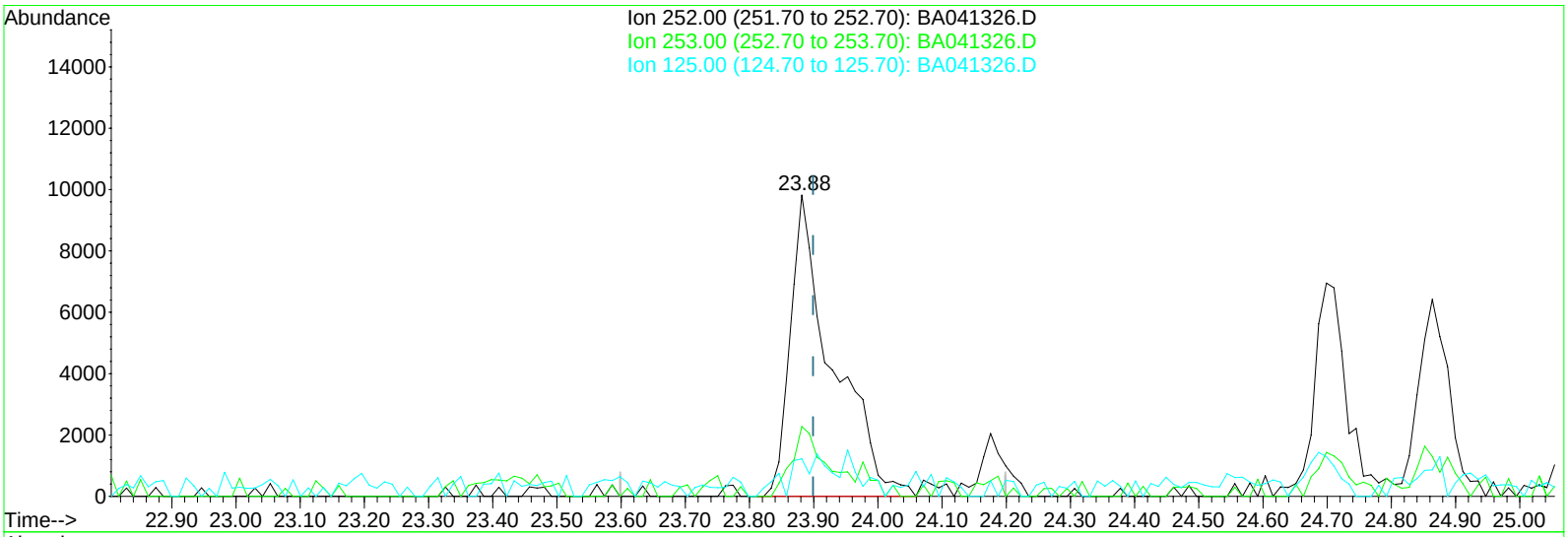
Quant Time: Oct 21 01:33:03 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

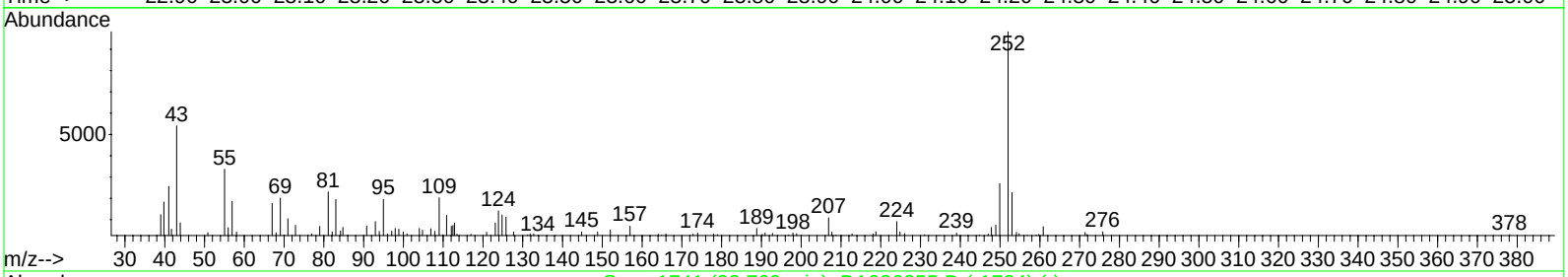


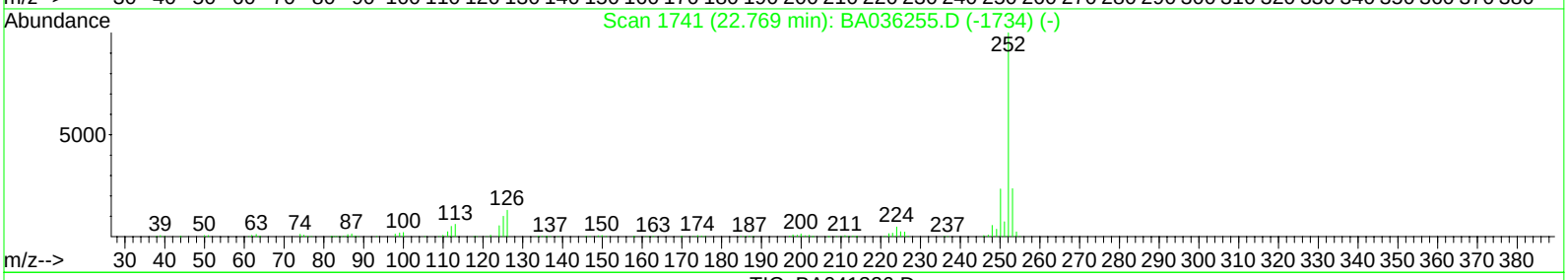
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA A\Data\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-08RE 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 01:29:58 2008
Quant Method : Z:\HPCHEM1\BNA A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041326.D

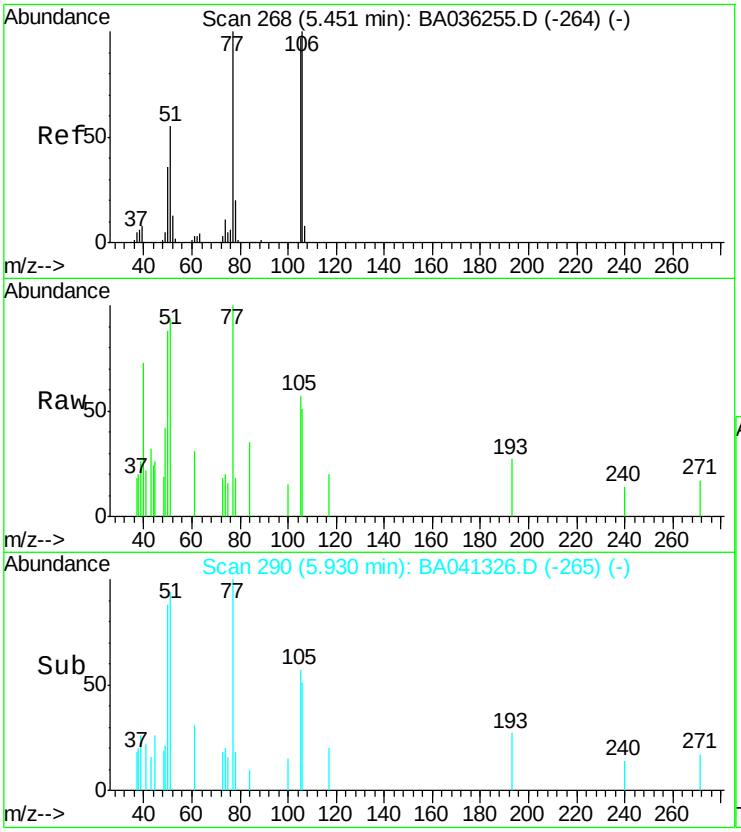
(83) Benzo(b)fluoranthene

23.881min (-0.018) 1.43ng/ul

response 44607

Ion	Exp%	Act%
252.00	100	100
253.00	20.20	23.18
125.00	5.10	12.44#
0.00	0.00	0.00

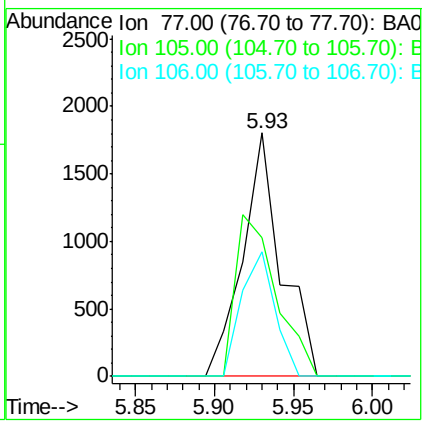
137

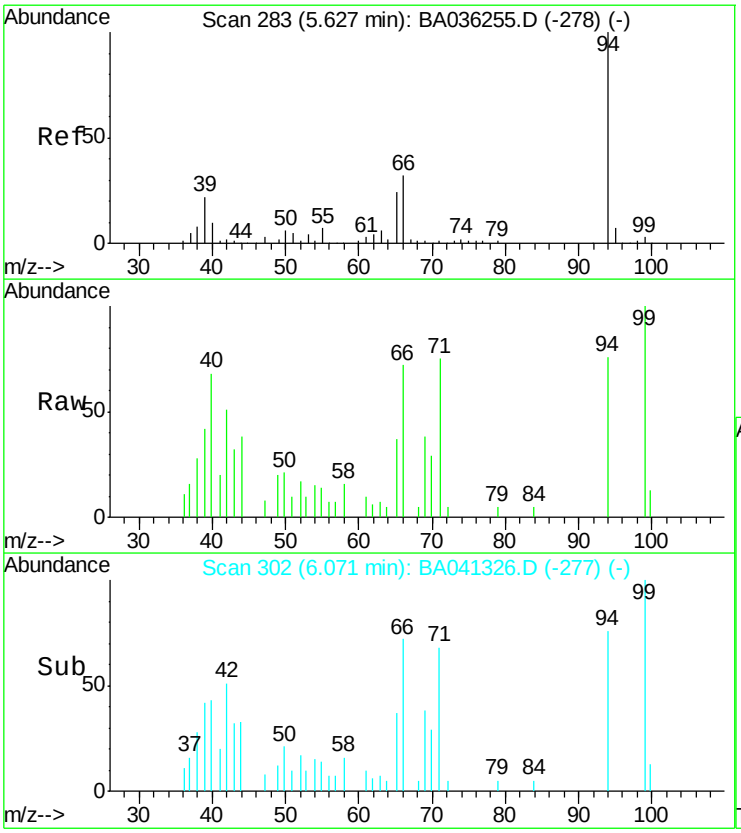


#2
Benzaldehyde
Concen: 0.51 ng/ul
RT: 5.93 min Scan# 290
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion: 77 Resp: 3060

Ion	Ratio	Lower	Upper
77	100		
105	57.1	69.6	104.4#
106	51.3	67.9	101.9#

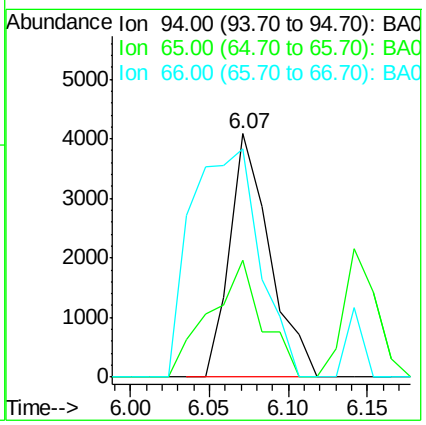


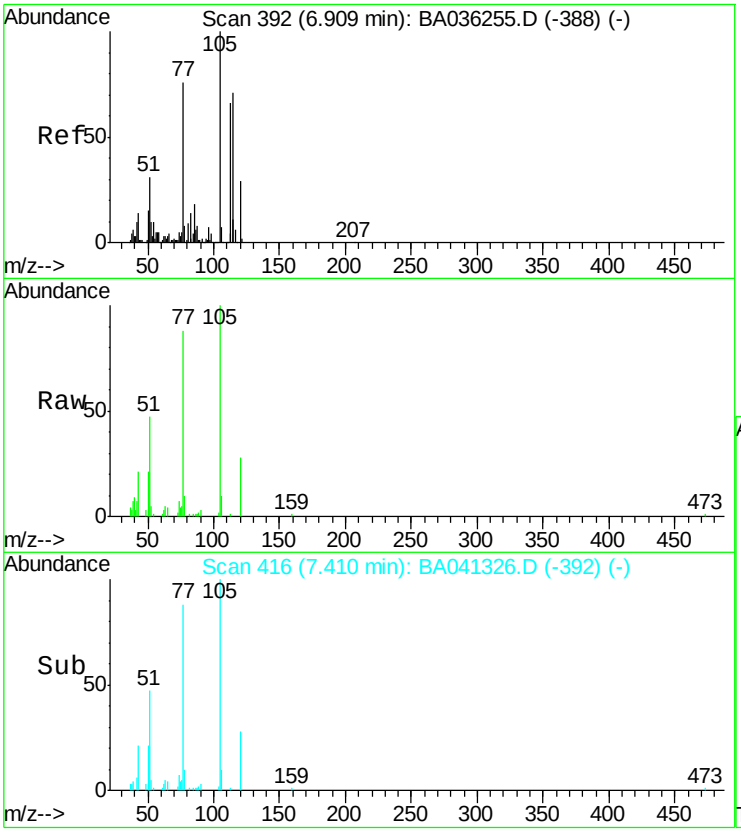


#4
Phenol
Concen: 0.49 ng/ul
RT: 6.07 min Scan# 302
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion: 94 Resp: 7159

Ion	Ratio	Lower	Upper
94	100		
65	48.0	29.0	43.6#
66	93.8	53.7	80.5#

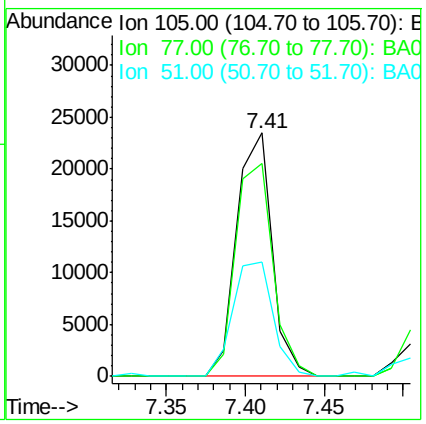


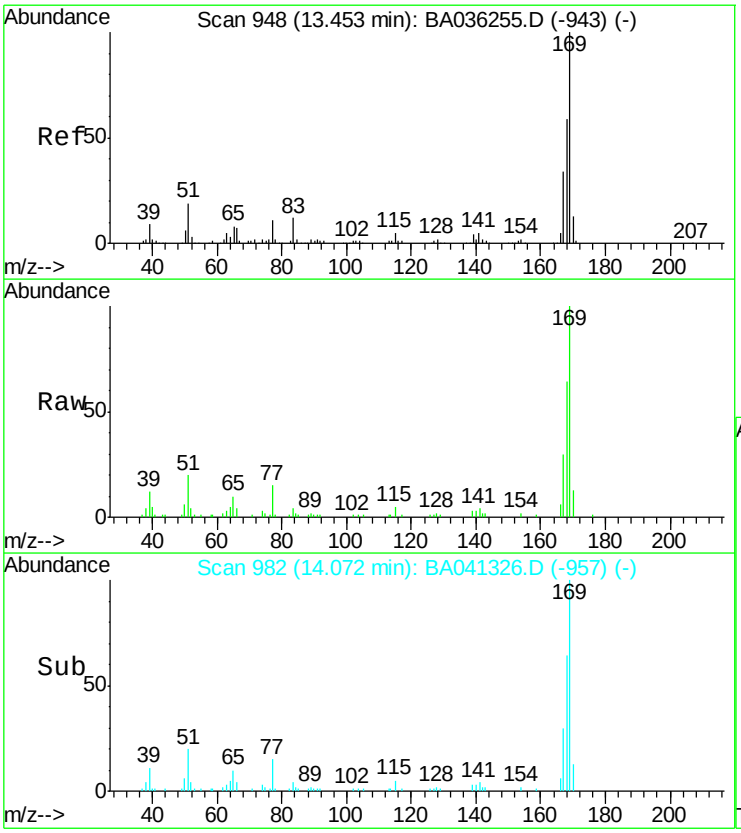


#12
Acetophenone
Concen: 2.05 ng/ul
RT: 7.41 min Scan# 416
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:105 Resp: 36378

Ion	Ratio	Lower	Upper
105	100		
77	87.7	69.4	104.2
51	47.1	42.1	63.1

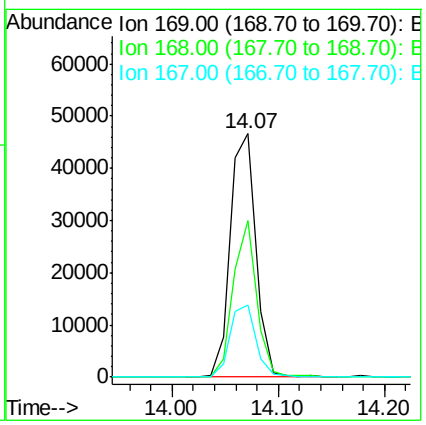


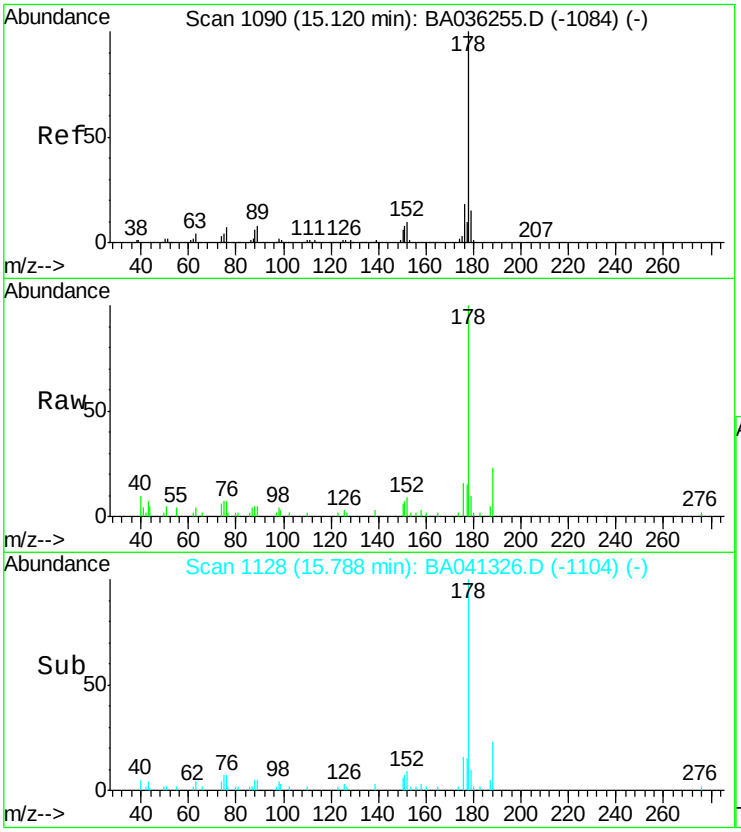


#62
N-Nitrosodiphenylamine
Concen: 2.96 ng/ul
RT: 14.07 min Scan# 982
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:169 Resp: 77679

Ion	Ratio	Lower	Upper
169	100		
168	64.1	47.8	71.6
167	29.7	23.4	35.2

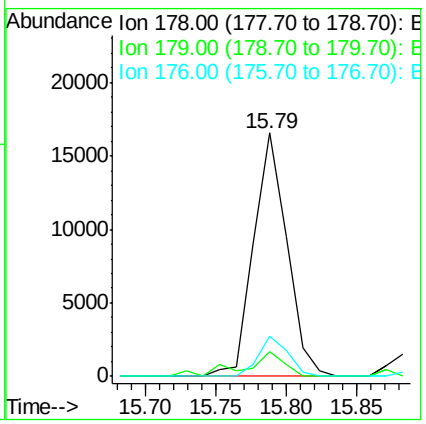


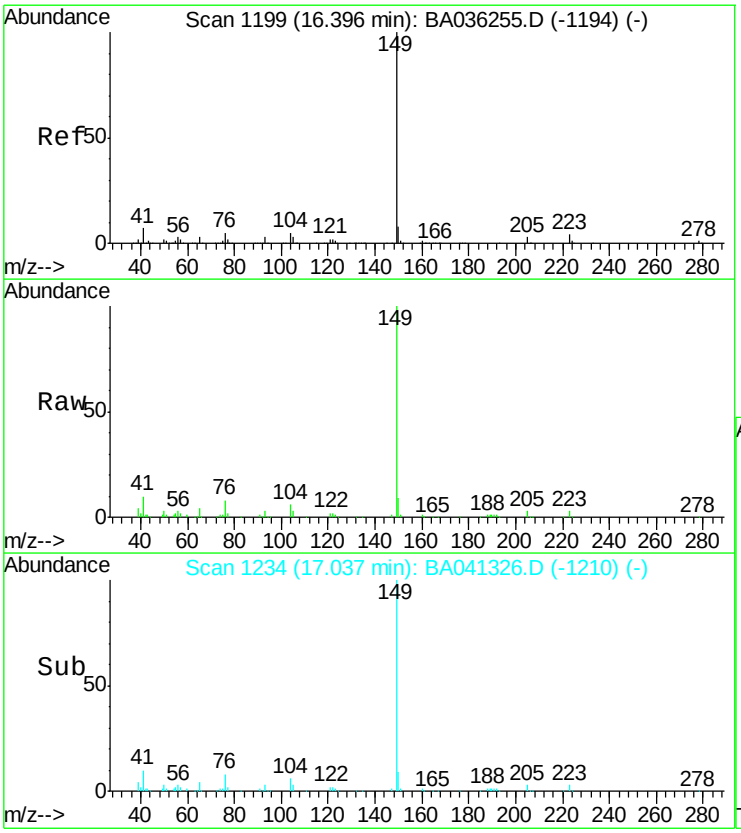


#67
Phenanthrene
Concen: 0.58 ng/ul
RT: 15.79 min Scan# 1128
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:178 Resp: 27216

Ion	Ratio	Lower	Upper
178	100		
179	10.3	12.0	18.0#
176	16.5	14.8	22.2

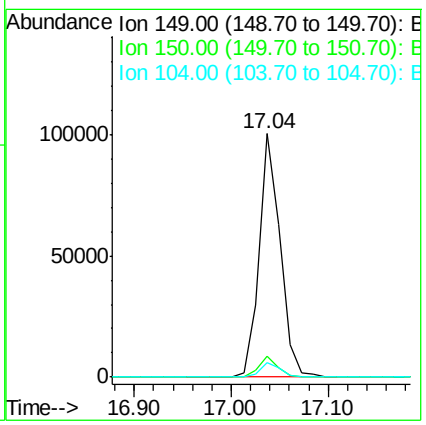


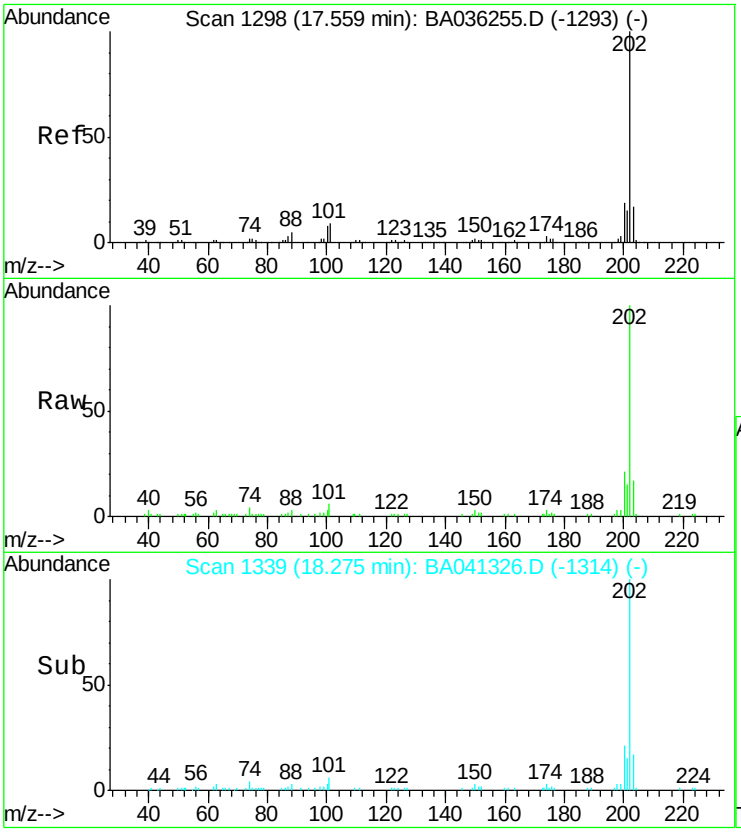


#71
Di-n-butylphthalate
Concen: 2.45 ng/ul
RT: 17.04 min Scan# 1234
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:149 Resp: 149826

Ion	Ratio	Lower	Upper
149	100		
150	8.6	7.9	11.9
104	5.7	5.6	8.4

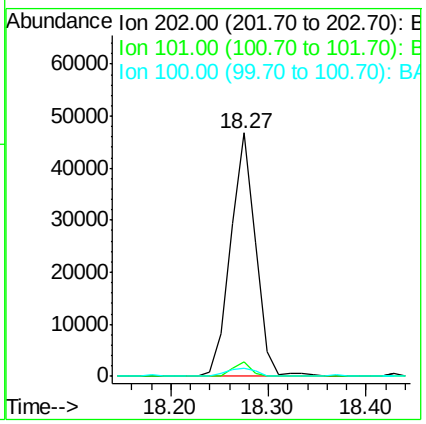


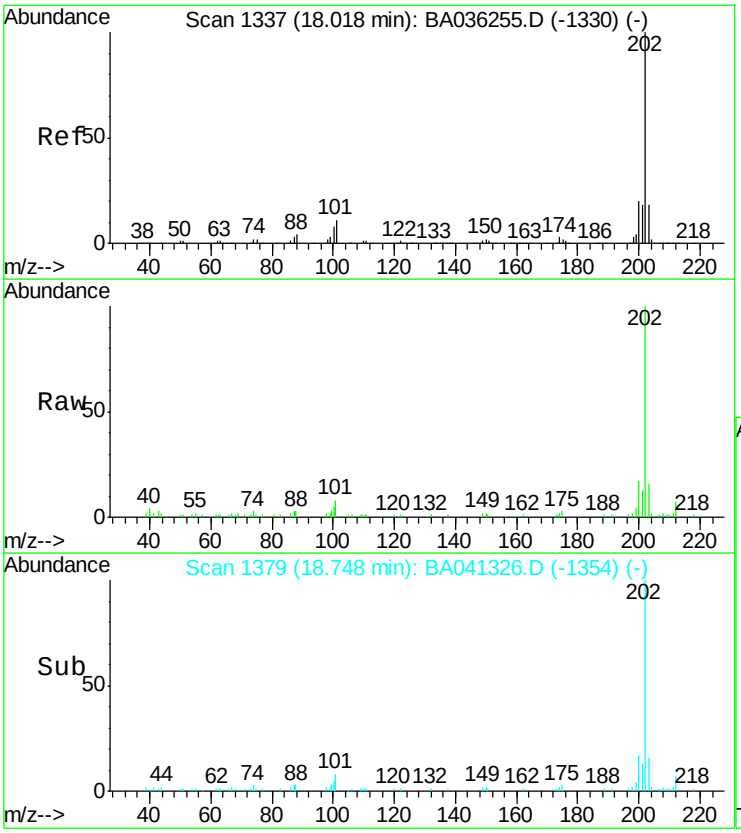


#72
Fluoranthene
Concen: 1.48 ng/ul
RT: 18.27 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:202 Resp: 82629

Ion	Ratio	Lower	Upper
202	100		
101	5.9	2.6	4.0#
100	3.1	2.9	4.3

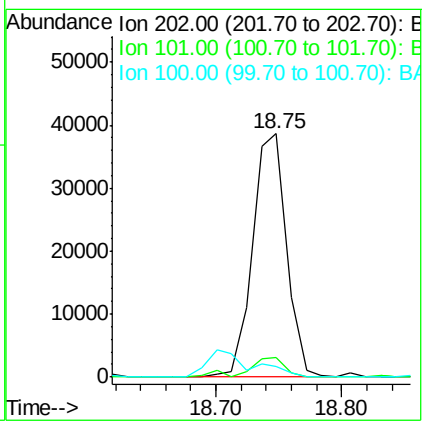


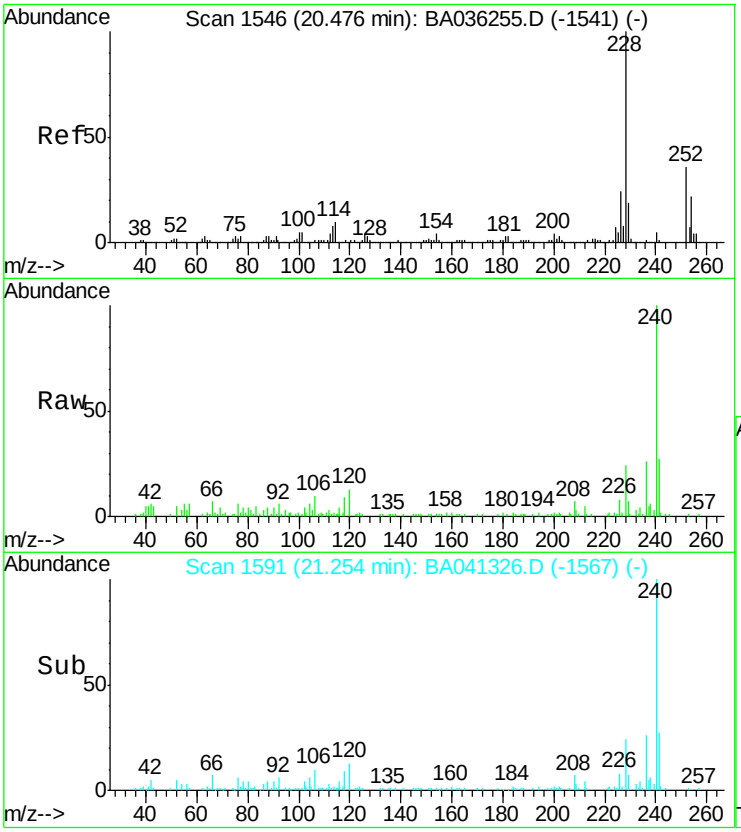


#75
Pyrene
Concen: 1.92 ng/ul
RT: 18.75 min Scan# 1379
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:202 Resp: 72631

Ion	Ratio	Lower	Upper
202	100		
101	7.8	3.5	5.3#
100	4.6	3.4	5.0

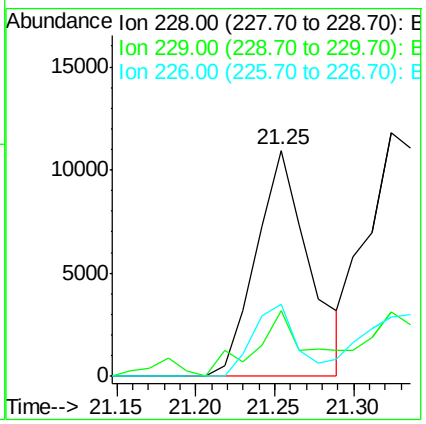


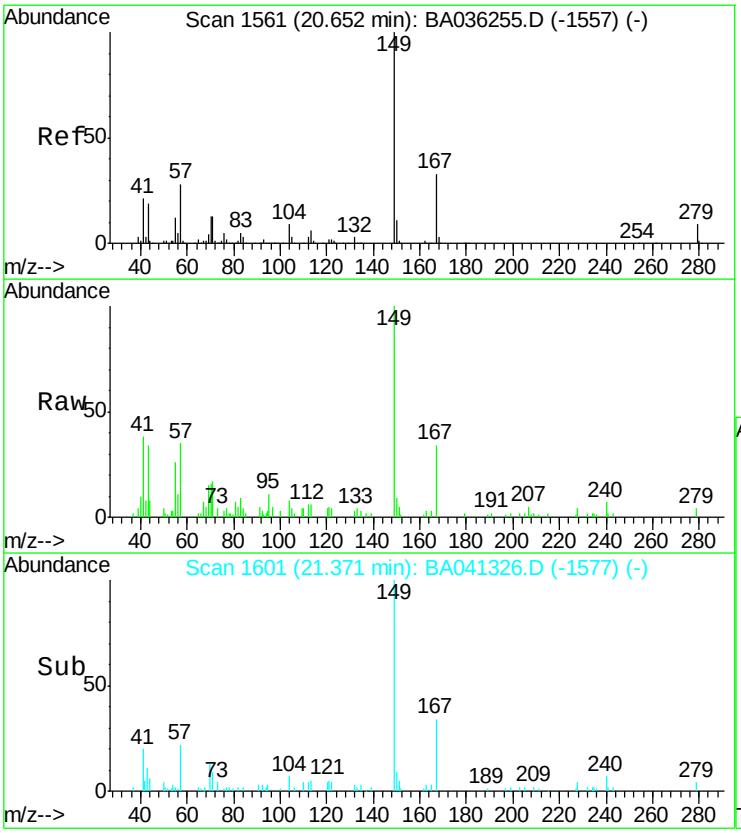


#78
Benzo(a)anthracene
Concen: 0.71 ng/ul
RT: 21.25 min Scan# 1591
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:228 Resp: 25665

Ion	Ratio	Lower	Upper
228	100		
229	29.3	15.9	23.9#
226	32.1	20.2	30.2#

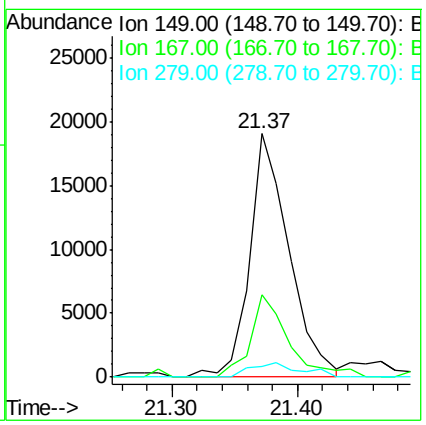


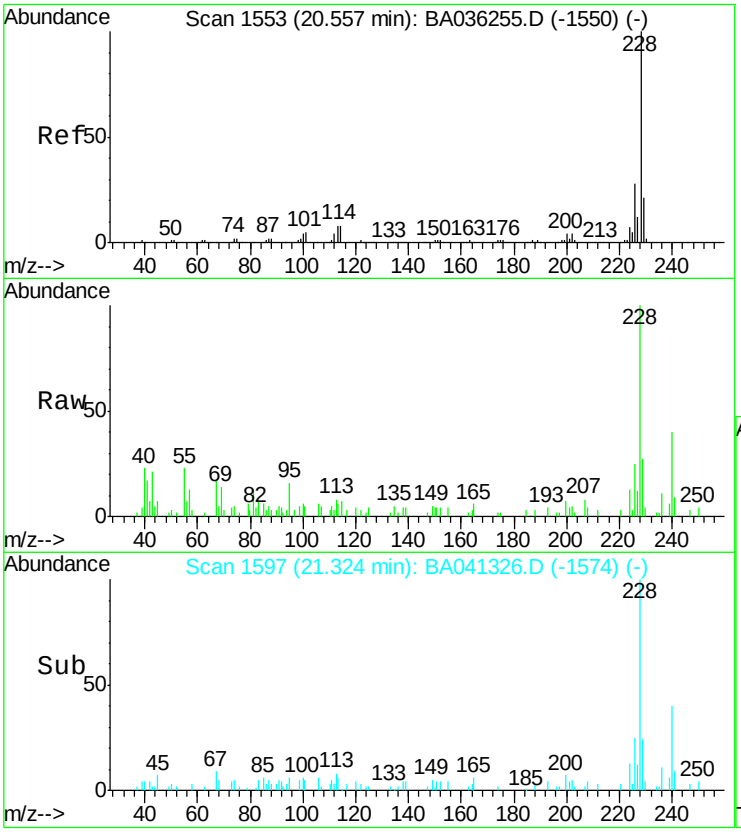


#79
Bis(2-ethylhexyl)phthalate
Concen: 2.16 ng/ul
RT: 21.37 min Scan# 1601
Delta R.T. -0.01 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:149 Resp: 41467

Ion	Ratio	Lower	Upper
149	100		
167	33.6	26.2	39.4
279	4.2	7.7	11.5#

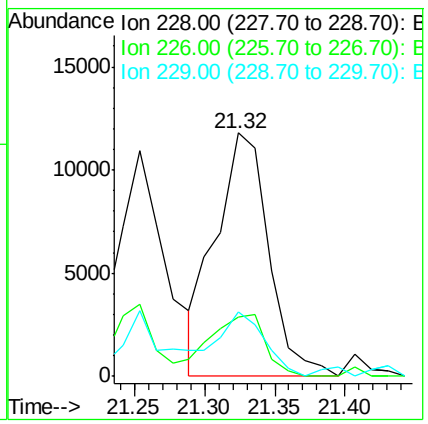


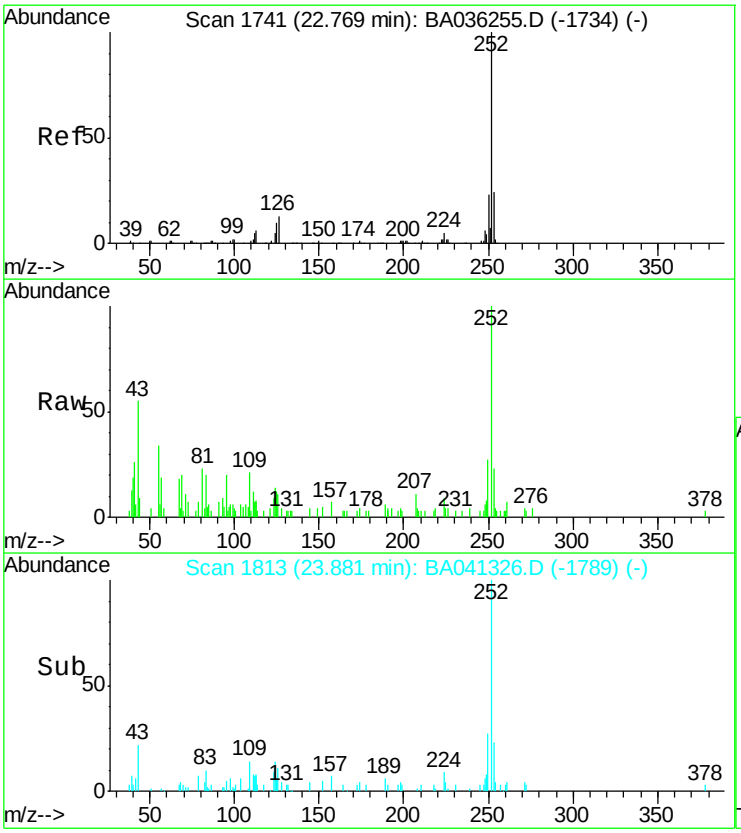


#80
Chrysene
Concen: 1.00 ng/ul
RT: 21.32 min Scan# 1597
Delta R.T. -0.02 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:228 Resp: 30795

Ion	Ratio	Lower	Upper
228	100		
226	24.6	20.6	31.0
229	26.6	14.4	21.6#

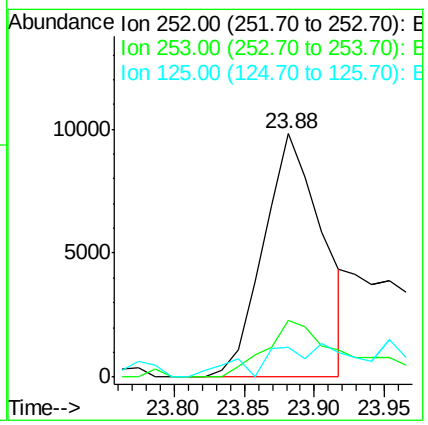




#83
Benzo(b)fluoranthene
Concen: 0.92 ng/ul m
RT: 23.88 min Scan# 1813
Delta R.T. -0.02 min
Lab File: BA041326.D
Acq: 20 Oct 2008 17:23

Tgt Ion:252 Resp: 28740

Ion	Ratio	Lower	Upper
252	100		
253	23.2	16.2	24.2
125	12.4	4.1	6.1#



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 01:33:03 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	221053	20.00	ng/ul	0.00
16) Naphthalene-d8	9.07	136	722536	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.66	164	501633	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.74	188	919611	20.00	ng/ul	-0.01
73) Chrysene-d12	21.28	240	683524	20.00	ng/ul	-0.01
81) Perylene-d12	25.07	264	478248	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.05	99	80286	6.00	ng/ul	-0.01
5) Bis-(2-Chloroethyl)ether-d	6.14	67	68171	7.51	ng/ul	-0.01
7) 2-Chlorophenol-d4	6.28	132	71944	6.33	ng/ul	-0.01
11) 4-Methylphenol-d8	7.37	113	20677	2.28	ng/ul	-0.01
17) Nitrobenzene-d5	7.68	128	51567	8.06	ng/ul	-0.01
20) 2-Nitrophenol-d4	8.30	143	59582	7.57	ng/ul	-0.01
24) 2,4-Dichlorophenol-d3	8.78	165	67945	4.66	ng/ul	-0.01
27) 4-Chloroaniline-d4	0.00	131	0	0.00	ng/ul	
41) Dimethylphthalate-d6	12.10	166	289209	8.66	ng/ul	-0.02
44) Acenaphthylene-d8	12.32	160	322589	7.94	ng/ul	-0.02
49) 4-Nitrophenol-d4	12.94	143	56678	8.32	ng/ul	-0.02
55) Fluorene-d10	13.73	176	236513	8.80	ng/ul	-0.01
60) 4,6-Dinitro-2-methylphenol	13.90	200	60259	6.33	ng/ul	-0.02
68) Anthracene-d10	15.86	188	335680	7.63	ng/ul	0.00
74) Pyrene-d10	18.70	212	392252	13.13	ng/ul	-0.02
85) Benzo(a)pyrene-d12	24.79	264	173962	6.68	ng/ul	-0.02
Target Compounds						Qvalue
2) Benzaldehyde	5.93	77	3060	0.51	ng/ul#	65
4) Phenol	6.07	94	7159	0.49	ng/ul#	71
12) Acetophenone	7.41	105	36378	2.05	ng/ul	96
62) N-Nitrosodiphenylamine	14.07	169	77679	2.96	ng/ul	96
67) Phenanthrene	15.79	178	27216	0.58	ng/ul#	92
71) Di-n-butylphthalate	17.04	149	149826	2.45	ng/ul	96
72) Fluoranthene	18.27	202	82629	1.48	ng/ul#	95
75) Pyrene	18.75	202	72631	1.92	ng/ul#	94
78) Benzo(a)anthracene	21.25	228	25665	0.71	ng/ul#	83
79) Bis(2-ethylhexyl)phthalate	21.37	149	41467	2.16	ng/ul#	96
80) Chrysene	21.32	228	30795	1.00	ng/ul#	91
83) Benzo(b)fluoranthene	23.88	252	28740m	0.92	ng/ul	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.825	23	26	31	rBV2	26485	80457	3.33%	0.322%
2	2.930	34	35	36	rVV	10944	11503	0.48%	0.046%
3	2.977	36	39	42	rVV	68474	148928	6.16%	0.597%
4	3.060	42	46	62	rVB2	615316	2416895	100.00%	9.686%
5	3.284	62	65	68	rBV2	26649	50384	2.08%	0.202%
6	3.414	73	76	83	rBV	54350	117450	4.86%	0.471%
7	3.519	83	85	89	rVB	39896	60910	2.52%	0.244%
8	3.789	105	108	113	rBV3	49267	107204	4.44%	0.430%
9	3.918	116	119	122	rBV2	42082	81523	3.37%	0.327%
10	4.048	127	130	134	rVB2	23471	46455	1.92%	0.186%
11	4.142	134	138	144	rBV	33256	64977	2.69%	0.260%
12	4.248	144	147	152	rBV	92882	190868	7.90%	0.765%
13	4.460	161	165	169	rBV3	10435	23600	0.98%	0.095%
14	5.236	227	231	233	rVV2	11243	15332	0.63%	0.061%
15	5.295	233	236	240	rVB3	11430	27885	1.15%	0.112%
16	5.530	251	256	259	rBV3	4987	17560	0.73%	0.070%
17	5.707	268	271	275	rVB	33862	59352	2.46%	0.238%
18	5.930	286	290	293	rBV4	12099	26962	1.12%	0.108%
19	6.048	297	300	306	rVV	193376	352197	14.57%	1.411%
20	6.142	306	308	314	rVB	165073	281957	11.67%	1.130%
21	6.282	316	320	324	rBV	202893	345019	14.28%	1.383%
22	6.412	328	331	334	rBV3	4881	14141	0.59%	0.057%
23	6.601	344	347	350	rBV2	4011	8250	0.34%	0.033%
24	6.683	350	354	361	rVB	800154	1467266	60.71%	5.880%
25	7.398	410	415	422	rBV2	95581	275695	11.41%	1.105%
26	7.504	422	424	431	rVB2	13397	25847	1.07%	0.104%
27	7.634	431	435	436	rBV3	11257	18381	0.76%	0.074%
28	7.681	436	439	442	rVB	311185	429530	17.77%	1.721%
29	7.882	453	456	460	rBV	6703	18943	0.78%	0.076%
30	8.305	489	492	496	rVV	275757	412263	17.06%	1.652%
31	8.541	508	512	515	rBV2	39846	79687	3.30%	0.319%
32	8.623	517	519	521	rVV3	11929	17391	0.72%	0.070%
33	8.682	521	524	529	rVV4	4362	11293	0.47%	0.045%
34	8.777	529	532	535	rVV	248154	354393	14.66%	1.420%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	8.930	543	545	548	rBV3	3899	10341	0.43%	0.041%
36	9.071	553	557	560	rBV	1100933	1593092	65.91%	6.384%
37	9.576	599	600	603	rBV2	6292	8776	0.36%	0.035%
38	10.153	645	649	652	rVV3	6449	13912	0.58%	0.056%
39	10.259	656	658	661	rVB2	11455	20495	0.85%	0.082%
40	10.613	686	688	694	rBV3	2992	8639	0.36%	0.035%
41	10.778	697	702	706	rVB3	4243	14135	0.58%	0.057%
42	11.060	723	726	731	rVB3	6069	12959	0.54%	0.052%
43	11.307	744	747	749	rVB3	5762	10855	0.45%	0.044%
44	11.554	763	768	769	rVB2	5072	9228	0.38%	0.037%
45	11.978	801	804	807	rBV2	4672	10021	0.41%	0.040%
46	12.095	811	814	817	rBV	499941	732483	30.31%	2.935%
47	12.319	830	833	838	rVB	467789	733483	30.35%	2.939%
48	12.531	846	851	853	rBV3	13973	35628	1.47%	0.143%
49	12.661	858	862	865	rBV	1249413	2075670	85.88%	8.318%
50	12.943	883	886	892	rBV	272237	449741	18.61%	1.802%
51	13.072	895	897	901	rVV	32712	53599	2.22%	0.215%
52	13.731	950	953	957	rVV	552728	887378	36.72%	3.556%
53	13.896	964	967	973	rVV	260950	401342	16.61%	1.608%
54	14.072	978	982	985	rBV	165656	287522	11.90%	1.152%
55	14.343	1001	1005	1008	rBV	6971	19656	0.81%	0.079%
56	14.694	1031	1035	1041	rVB3	20519	43759	1.81%	0.175%
57	14.776	1041	1042	1047	rBV2	3682	9172	0.38%	0.037%
58	15.105	1066	1070	1071	rBV3	5942	11220	0.46%	0.045%
59	15.223	1077	1080	1082	rBV2	3945	11402	0.47%	0.046%
60	15.493	1099	1103	1108	rVB5	5368	17337	0.72%	0.069%
61	15.623	1112	1114	1118	rVB2	11066	19776	0.82%	0.079%
62	15.740	1120	1124	1127	rVV	1305618	2276082	94.17%	9.121%
63	15.859	1130	1134	1144	rVB	518481	886621	36.68%	3.553%
64	16.411	1180	1181	1187	rVB2	6547	12732	0.53%	0.051%
65	16.517	1187	1190	1192	rBV3	7513	16130	0.67%	0.065%
66	16.564	1192	1194	1198	rVB2	41121	64193	2.66%	0.257%
67	16.635	1198	1200	1204	rBV3	5897	15574	0.64%	0.062%
68	16.730	1204	1208	1210	rVB3	10427	18045	0.75%	0.072%
69	16.860	1216	1219	1221	rBV2	9091	16579	0.69%	0.066%
70	16.907	1221	1223	1225	rVB2	5523	8753	0.36%	0.035%
71	17.037	1228	1234	1240	rBV	191260	328441	13.59%	1.316%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

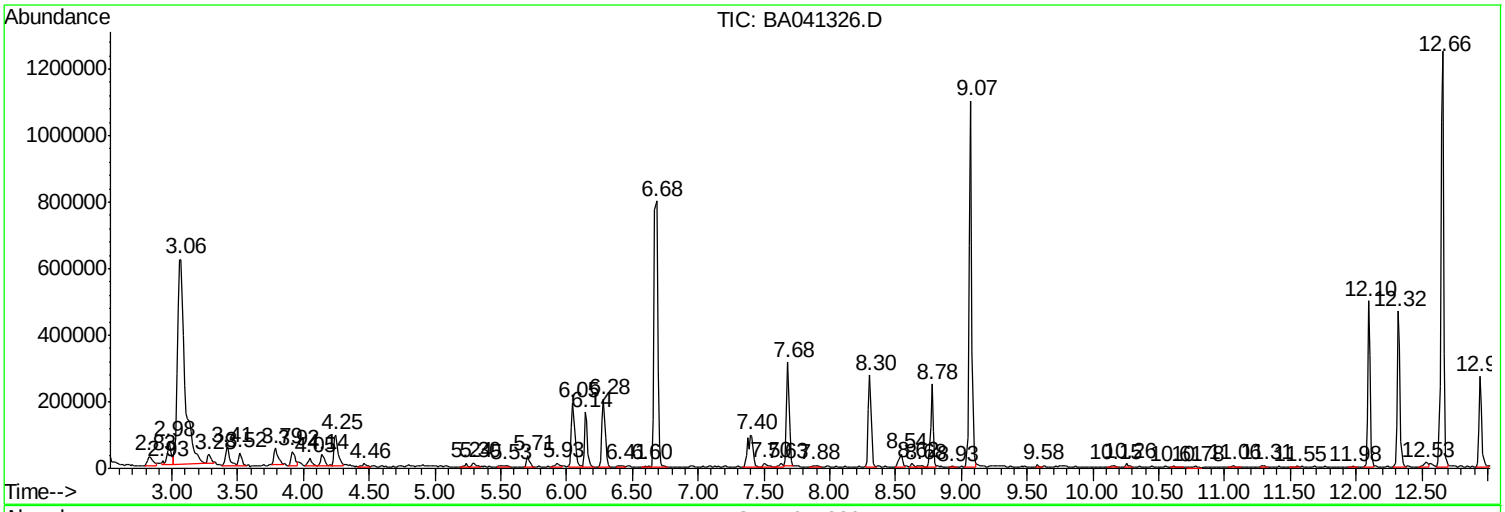
72	17.120	1240	1241	1244	rVB3	7039	8570	0.35%	0.034%
73	17.179	1244	1246	1247	rBV	5256	9731	0.40%	0.039%
74	17.309	1253	1257	1260	rBV	122449	217953	9.02%	0.873%
75	17.414	1264	1266	1269	rBV3	14575	34384	1.42%	0.138%
76	17.602	1279	1282	1285	rBV4	9028	23041	0.95%	0.092%
77	17.768	1293	1296	1297	rVB2	4895	8651	0.36%	0.035%
78	17.803	1297	1299	1302	rBV3	5260	14277	0.59%	0.057%
79	17.886	1303	1306	1309	rVB	22945	33243	1.38%	0.133%
80	17.969	1309	1313	1315	rVB3	10854	27295	1.13%	0.109%
81	18.193	1328	1332	1336	rVV4	36488	127449	5.27%	0.511%
82	18.275	1336	1339	1342	rVB	102111	182452	7.55%	0.731%
83	18.417	1347	1351	1354	rBV2	8593	26410	1.09%	0.106%
84	18.464	1354	1355	1358	rVB3	7873	9877	0.41%	0.040%
85	18.558	1361	1363	1367	rBV4	11311	31172	1.29%	0.125%
86	18.712	1372	1376	1383	rBV2	509415	1184923	49.03%	4.749%
87	18.843	1385	1387	1388	rBV	9039	12399	0.51%	0.050%
88	19.008	1399	1401	1403	rBV2	6536	12593	0.52%	0.050%
89	19.445	1436	1438	1441	rVB	12051	18117	0.75%	0.073%
90	19.552	1444	1447	1451	rBV	46886	101725	4.21%	0.408%
91	19.659	1454	1456	1459	rVV2	11576	20083	0.83%	0.080%
92	21.111	1575	1579	1585	rBV6	49776	195989	8.11%	0.785%
93	21.278	1589	1593	1597	rVV	943042	1860367	76.97%	7.455%
94	21.371	1599	1601	1607	rVB	70724	163867	6.78%	0.657%
95	21.585	1616	1619	1621	rBV4	37530	60155	2.49%	0.241%
96	24.792	1885	1890	1899	rVB2	147642	565452	23.40%	2.266%
97	25.066	1907	1913	1918	rVB	363756	1158050	47.91%	4.641%
98	32.189	2513	2515	2518	rBV4	10035	19770	0.82%	0.079%
99	33.277	2605	2607	2609	rBV3	8089	11774	0.49%	0.047%
100	33.691	2640	2642	2644	rBV3	7003	8351	0.35%	0.033%

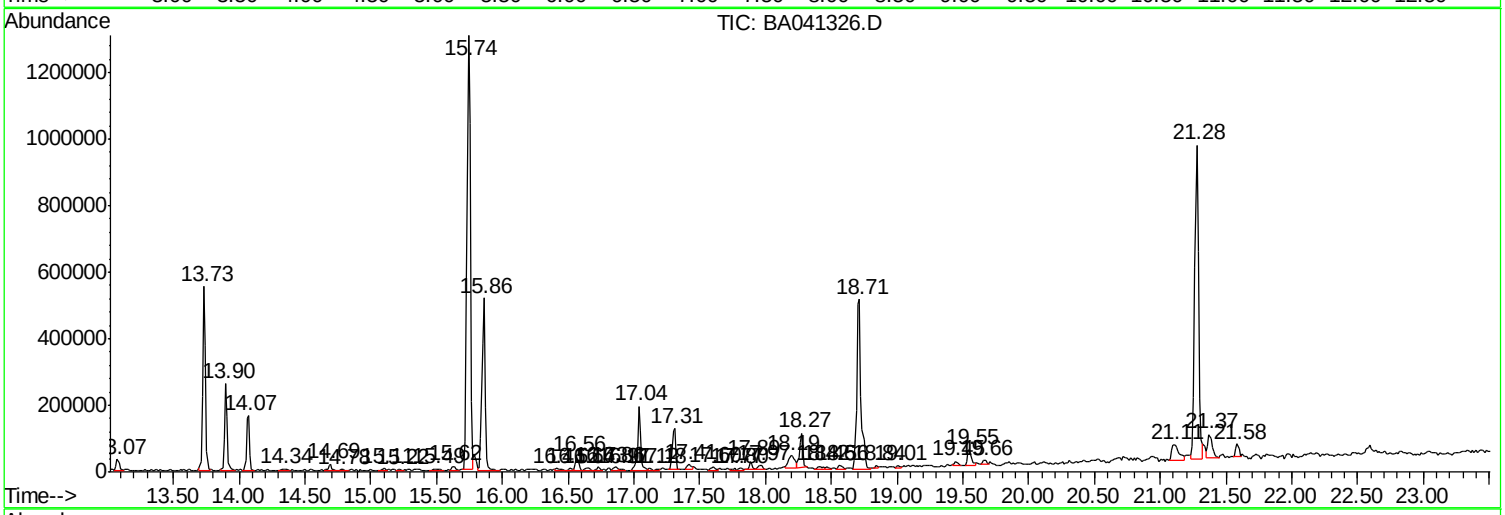
Sum of corrected areas: 24953389

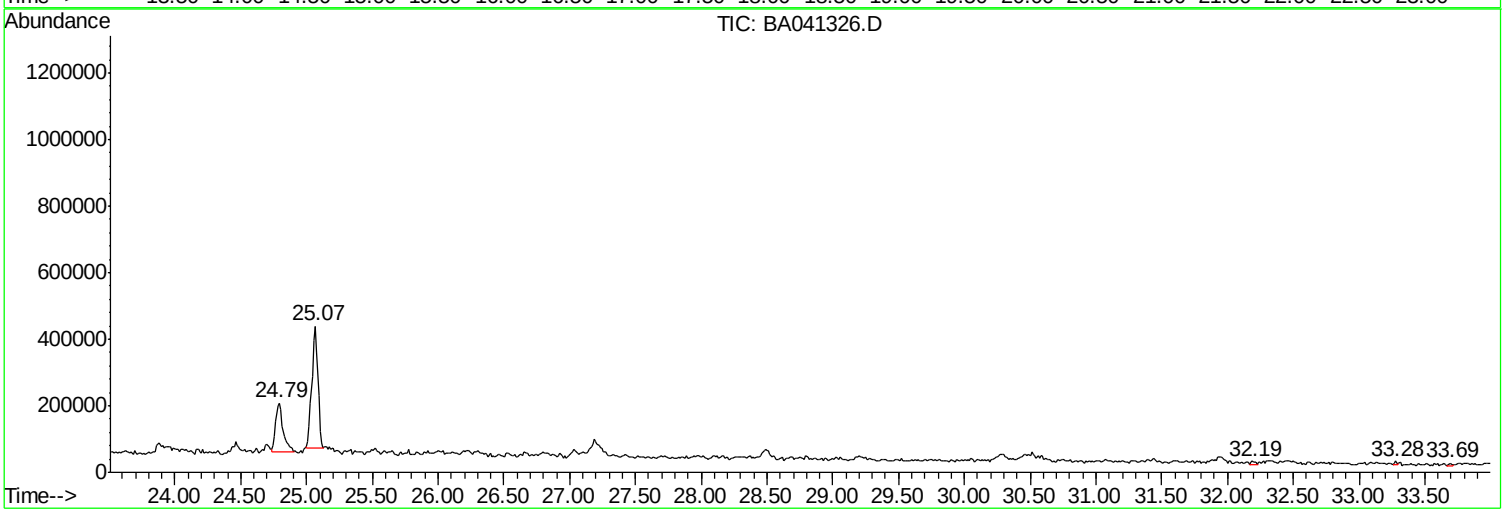
Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

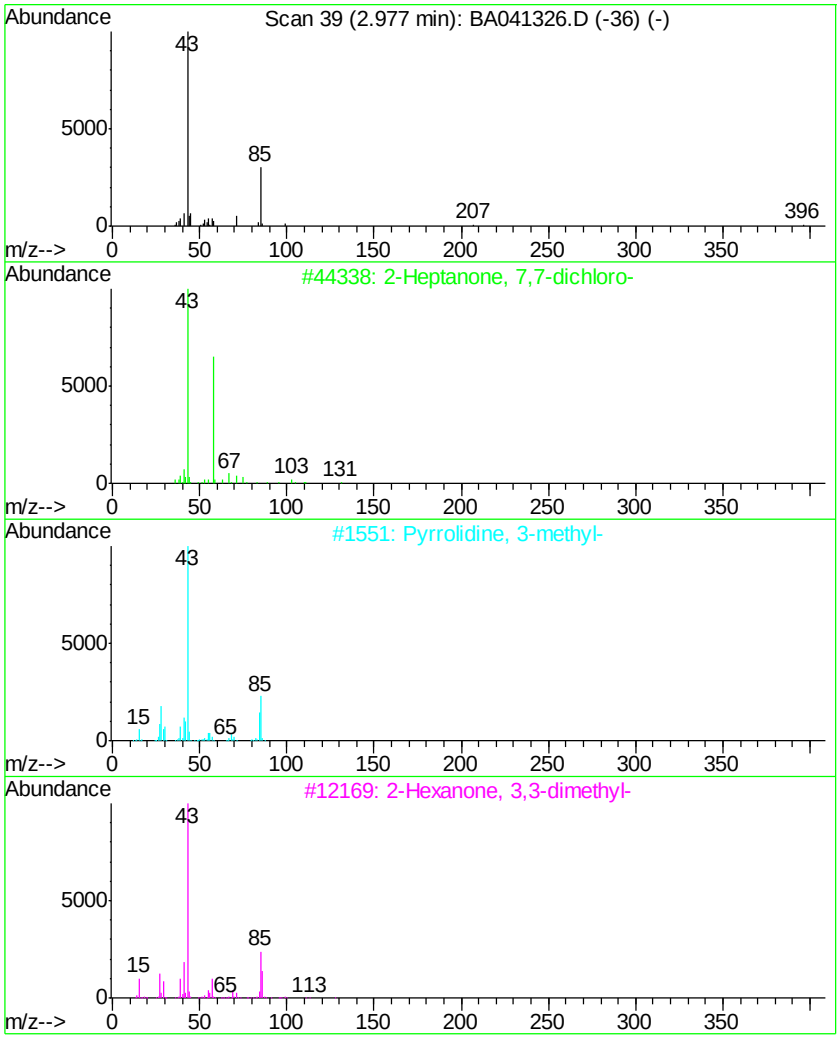
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

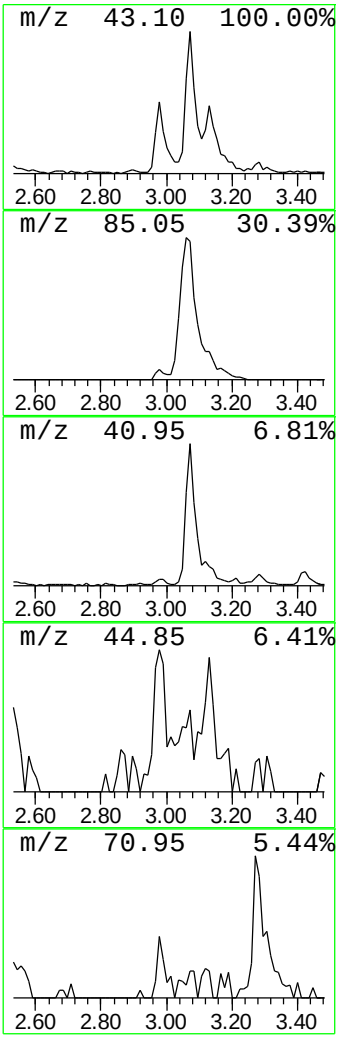
****

Peak Number 1 unknown2.98 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	2.03 ng/ul	148928	1,4-Dichlorobenzene-d4	6.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone, 7,7-dichloro-	182	C7H12Cl2O	066241-43-8	17
2	Pyrrolidine, 3-methyl-	85	C5H11N	034375-89-8	9
3	2-Hexanone, 3,3-dimethyl-	128	C8H16O	026118-38-7	9
4	N-(2-Cyano-4,5,6,7-tetrahydroben...	220	C11H12N2OS	339165-60-5	9
5	2H-Pyran-2,3-diol, tetrahydro-, ...	202	C9H14O5	003021-94-1	9





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

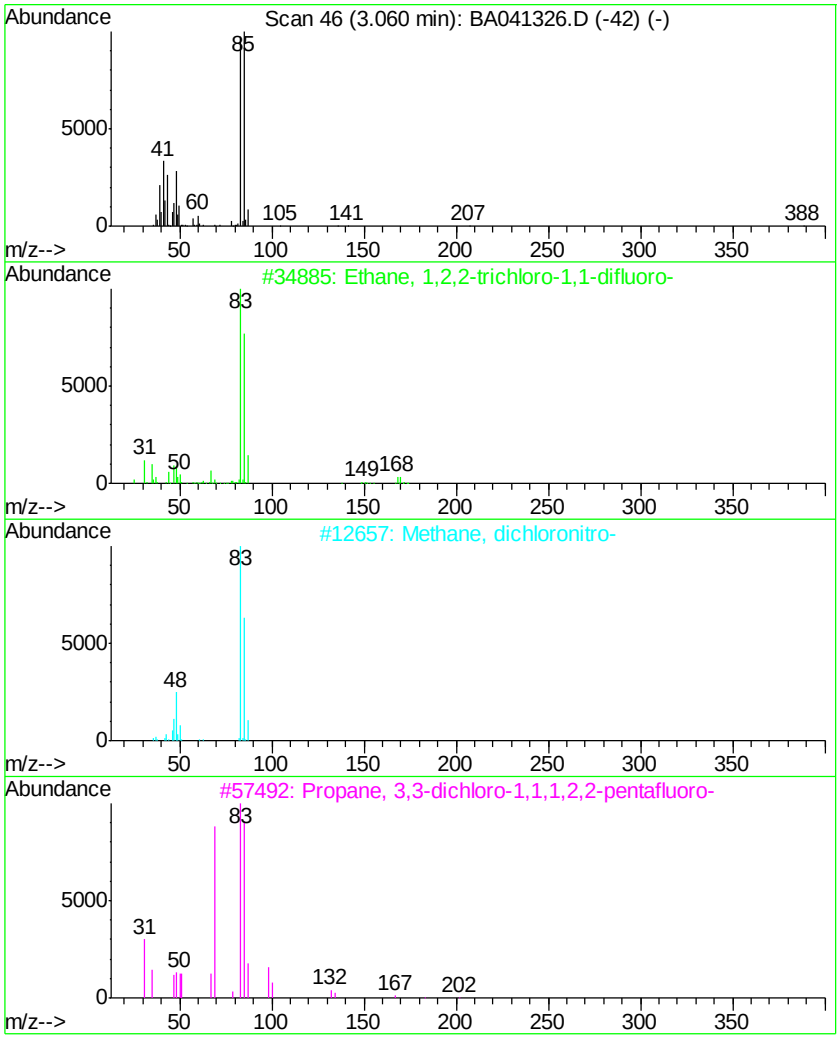
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

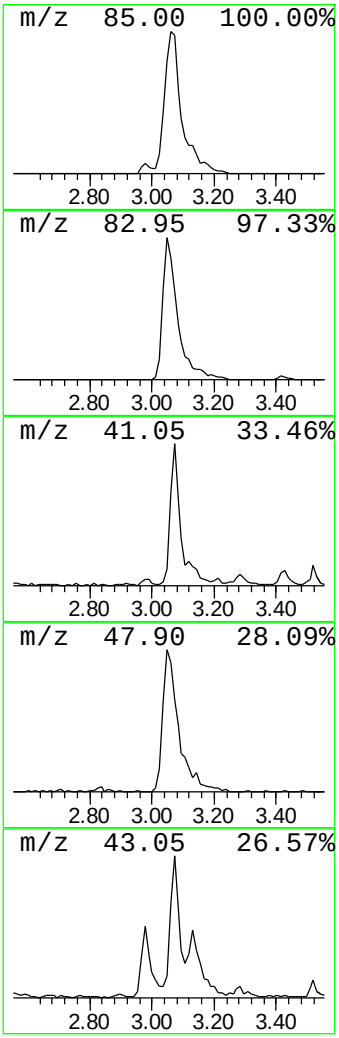
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Ethane, 1,2,2-trichloro-1,1... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.06	32.94 ng/ul	2416900	1,4-Dichlorobenzene-d4	6.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,2,2-trichloro-1,1-difl...	168	C2HCl3F2	000354-21-2	50
2	Methane, dichloronitro-	129	CHCl2NO2	007119-89-3	45
3	Propane, 3,3-dichloro-1,1,1,2,2-...	202	C3HCl2F5	000422-56-0	39
4	Dichloroacetic anhydride	238	C4H2Cl4O3	004124-30-5	36
5	Methane, bromodichloro-	162	CHBrCl2	000075-27-4	28





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

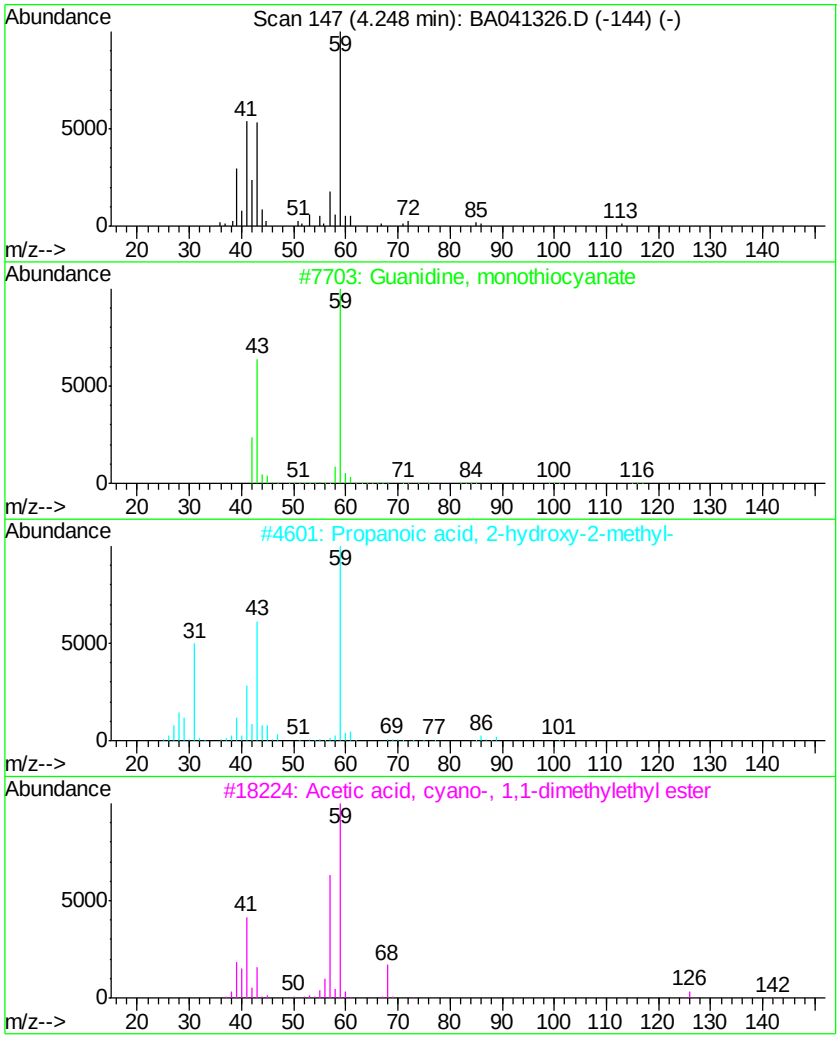
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

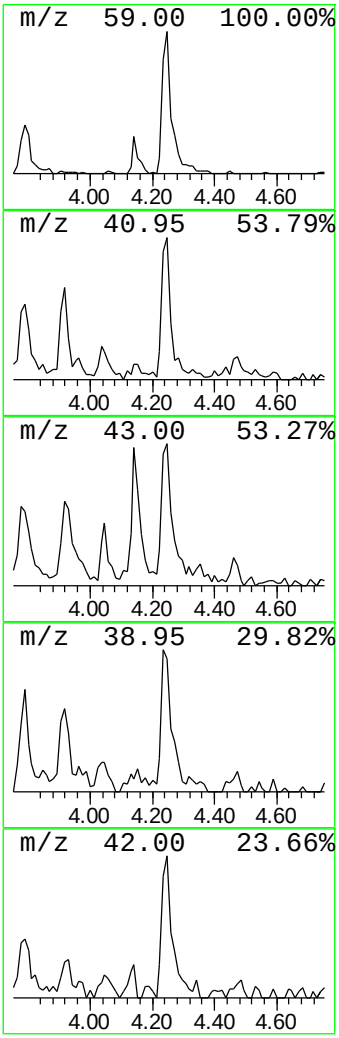
****

Peak Number 3 Guanidine, monothiocyanate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.25	2.60 ng/ul	190868	1,4-Dichlorobenzene-d4	6.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Guanidine, monothiocyanate	116	C2H4N4S	056960-89-5	50
2	Propanoic acid, 2-hydroxy-2-methyl-	104	C4H8O3	000594-61-6	45
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	42
4	Hexylene Glycol	118	C6H14O2	000107-41-5	40
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	40





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

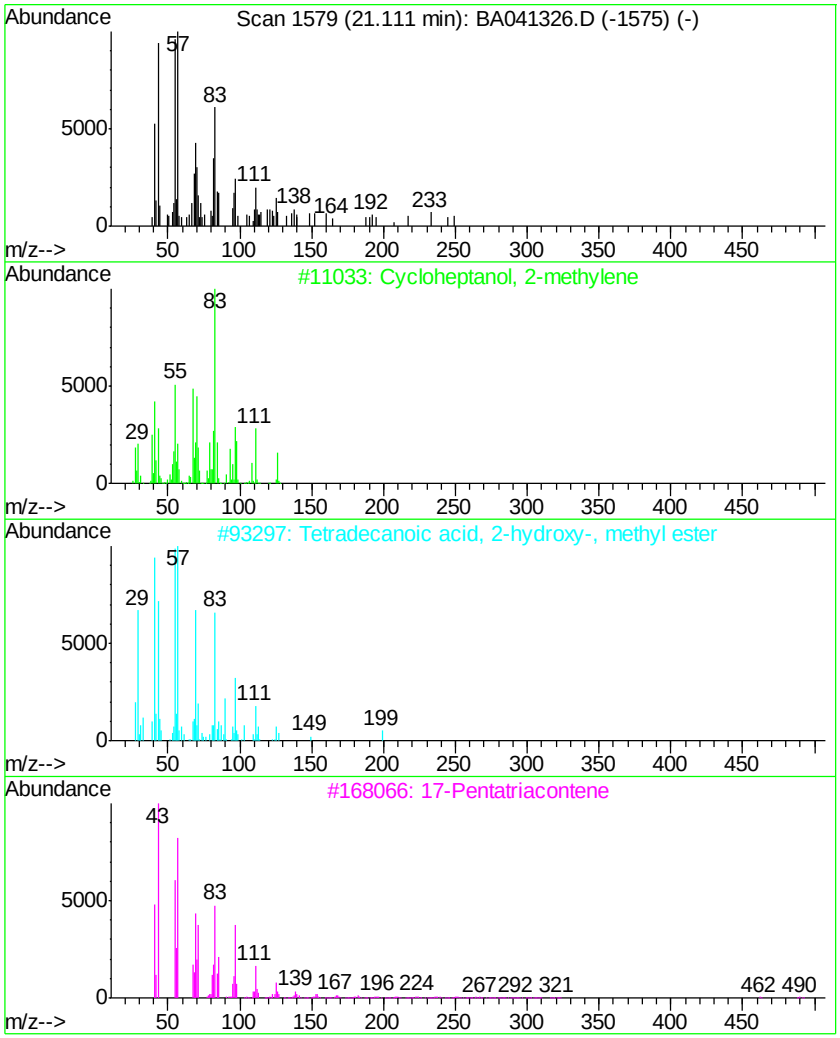
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

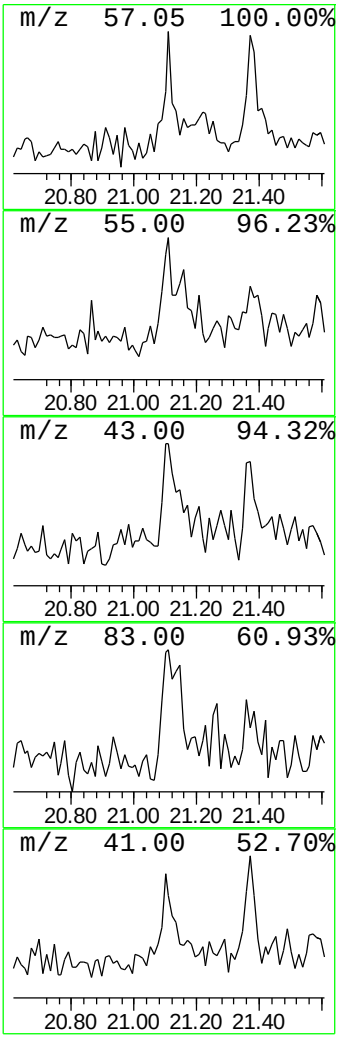
****

Peak Number 4 Cycloheptanol, 2-methylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.11	2.11 ng/ul	195989	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cycloheptanol, 2-methylene	126	C8H14O	016240-38-3	58
2	Tetradecanoic acid, 2-hydroxy-, ...	258	C15H30O3	056009-40-6	53
3	17-Pentatriacontene	491	C35H70	006971-40-0	46
4	3-Heptafluorobutyroxypentadecane	424	C19H31F7O2	1000245-50-1	43
5	1-Tetracosanol	354	C24H50O	000506-51-4	43





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041326.D
Acq On : 20 Oct 2008 17:23
Operator : HNP
Sample : Z4920-06 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown2.98	2.98	2.0	ng/ul	148928	1	6.68	1467270	20.0
Ethane, 1,2,2-tri...	3.06	32.9	ng/ul	2416900	1	6.68	1467270	20.0
Guanidine, monoth...	4.25	2.6	ng/ul	190868	1	6.68	1467270	20.0
Cycloheptanol, 2-...	21.11	2.1	ng/ul	195989	5	21.28	1860370	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-2

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-07

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041309.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 20.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.11 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	20	J
108-95-2	Phenol	36	J
111-44-4	Bis(2-chloroethyl)ether	110	U
95-57-8	2-Chlorophenol	110	U
95-48-7	2-Methylphenol	110	U
108-60-1	2,2'-Oxybis(1-chloropropane)	110	U
98-86-2	Acetophenone	130	
106-44-5	4-Methylphenol	110	U
621-64-7	N-Nitroso-di-n-propylamine	110	U
67-72-1	Hexachloroethane	110	U
98-95-3	Nitrobenzene	110	U
78-59-1	Isophorone	110	U
88-75-5	2-Nitrophenol	110	U
105-67-9	2,4-Dimethylphenol	110	U
111-91-1	Bis(2-chloroethoxy)methane	110	U
120-83-2	2,4-Dichlorophenol	110	U
91-20-3	Naphthalene	110	U
106-47-8	4-Chloroaniline	110	U
87-68-3	Hexachlorobutadiene	110	U
105-60-2	Caprolactam	110	U
59-50-7	4-Chloro-3-methylphenol	110	U
91-57-6	2-Methylnaphthalene	110	U
77-47-4	Hexachlorocyclopentadiene	110	U
88-06-2	2,4,6-Trichlorophenol	110	U
95-95-4	2,4,5-Trichlorophenol	110	U
92-52-4	1,1'-Biphenyl	110	U
91-58-7	2-Chloronaphthalene	110	U
88-74-4	2-Nitroaniline	210	U
131-11-3	Dimethylphthalate	110	U
606-20-2	2,6-Dinitrotoluene	110	U
208-96-8	Acenaphthylene	110	U
99-09-2	3-Nitroaniline	210	U
83-32-9	Acenaphthene	110	U
51-28-5	2,4-Dinitrophenol	210	U
100-02-7	4-Nitrophenol	210	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-2

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-07

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041309.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 20.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.11 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	110	U
121-14-2	2,4-Dinitrotoluene	110	U
84-66-2	Diethylphthalate	110	U
86-73-7	Fluorene	110	U
7005-72-3	4-Chlorophenyl-phenylether	110	U
100-01-6	4-Nitroaniline	210	U
534-52-1	4,6-Dinitro-2-methylphenol	130	J
86-30-6	N-Nitrosodiphenylamine[1]	110	U
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U
101-55-3	4-Bromophenyl-phenylether	110	U
118-74-1	Hexachlorobenzene	110	U
1912-24-9	Atrazine	110	U
87-86-5	Pentachlorophenol	210	U
85-01-8	Phenanthrene	35	J
120-12-7	Anthracene	110	U
86-74-8	Carbazole	110	U
84-74-2	Di-n-butylphthalate	110	U
206-44-0	Fluoranthene	74	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	110	U
91-94-1	3,3'-Dichlorobenzidine	110	U
56-55-3	Benzo(a)anthracene	64	J
218-01-9	Chrysene	85	J
117-81-7	Bis(2-ethylhexyl)phthalate	110	U
117-84-0	Di-n-octylphthalate	110	U
205-99-2	Benzo(b)fluoranthene	94	J
207-08-9	Benzo(k)fluoranthene	110	U
50-32-8	Benzo(a)pyrene	82	J
193-39-5	Indeno(1,2,3-cd)pyrene	43	J
53-70-3	Dibenzo(a,h)anthracene	110	U
191-24-2	Benzo(g,h,i)perylene	45	J
58-90-2	2,3,4,6-Tetrachlorophenol	110	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC5-2

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4920-07

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041309.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 20.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.11 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

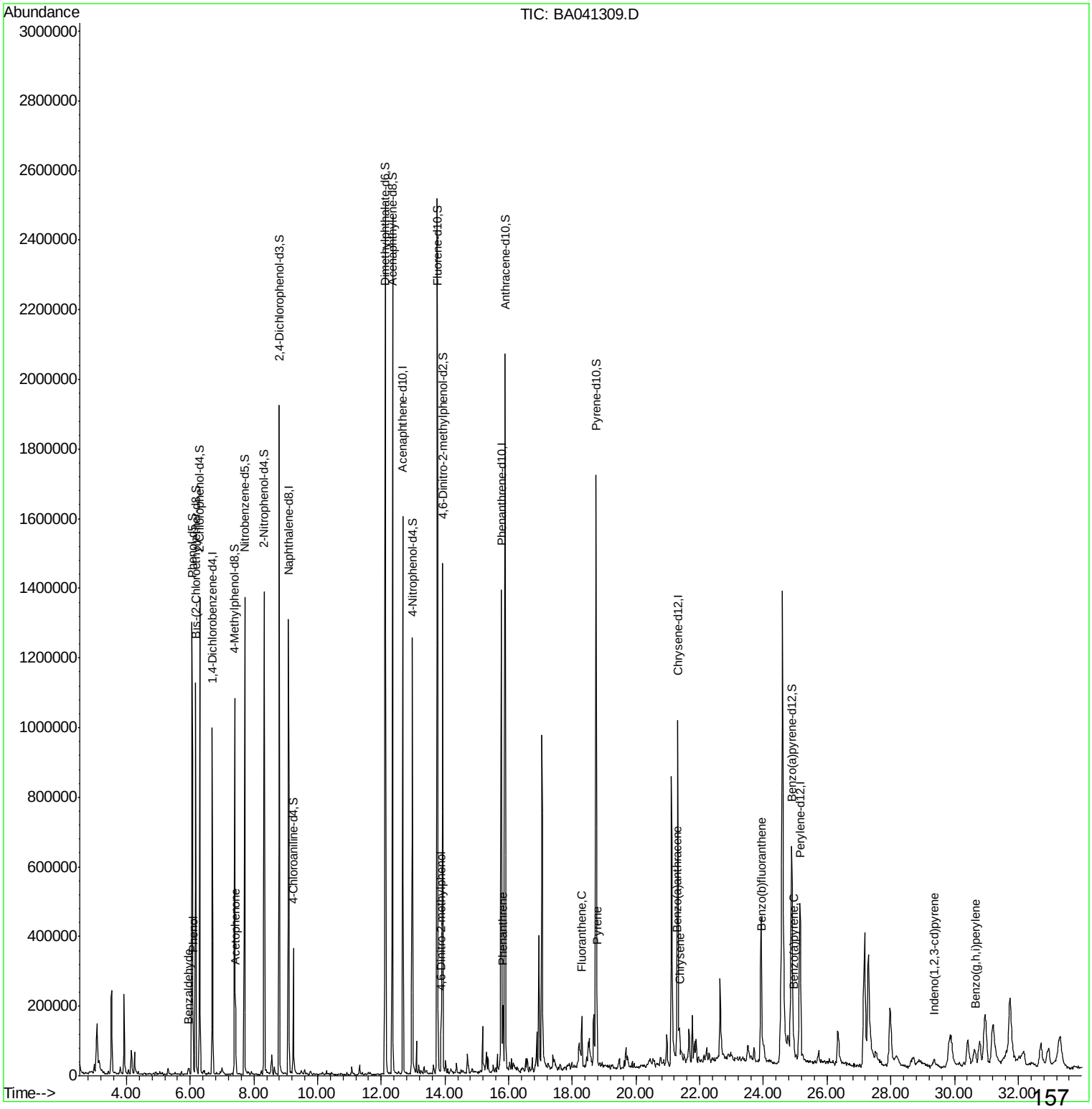
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.		unknown3.07	3.07	200	J
02.	3404-73-7	1-Pentene, 3,3-dimethyl-	3.53	230	JN
03.		unknown3.92	3.92	210	J
04.		unknown16.88	16.88	100	J
05.	2091-29-4	9-Hexadecenoic acid	16.95	220	JN
06.	57-10-3	n-Hexadecanoic acid	17.04	670	JNB
07.	120-46-7	1,3-Propanedione, 1,3-diphenyl-	18.21	92	JN
08.	57-11-4	Octadecanoic acid	18.67	110	JN
09.	1599-67-3	1-Docosene	21.11	680	JN
10.	131758-71-9	(2,3-Diphenylcyclopropyl)methy	21.77	100	JN
11.	593-45-3	Octadecane	22.63	240	JN
12.		unknown23.52	23.52	85	J
13.	506-52-5	1-Hexacosanol	24.60	2900	JN
14.	14811-95-1	1,19-Eicosadiene	26.33	180	JN
15.	112-95-8	Eicosane	27.17	870	JN
16.	661-19-8	1-Docosanol	27.29	820	JN
17.	7494-34-0	26-Nor-5-cholesten-3.beta.-ol-2	27.98	470	JN
18.		unknown29.87	29.87	170	J
19.	4736-95-2	22-Stigmasten-3-one	30.42	190	JN
20.	1000162-77-8	Thujopsene-I3	30.79	160	JN
21.	56862-62-5	10-Methylnonadecane	30.95	430	JN
22.	6244-49-1	Cyclododecanol, 1-ethenyl-	31.21	420	JN
23.		unknown31.75	31.75	620	J
24.		unknown32.72	32.72	180	J
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

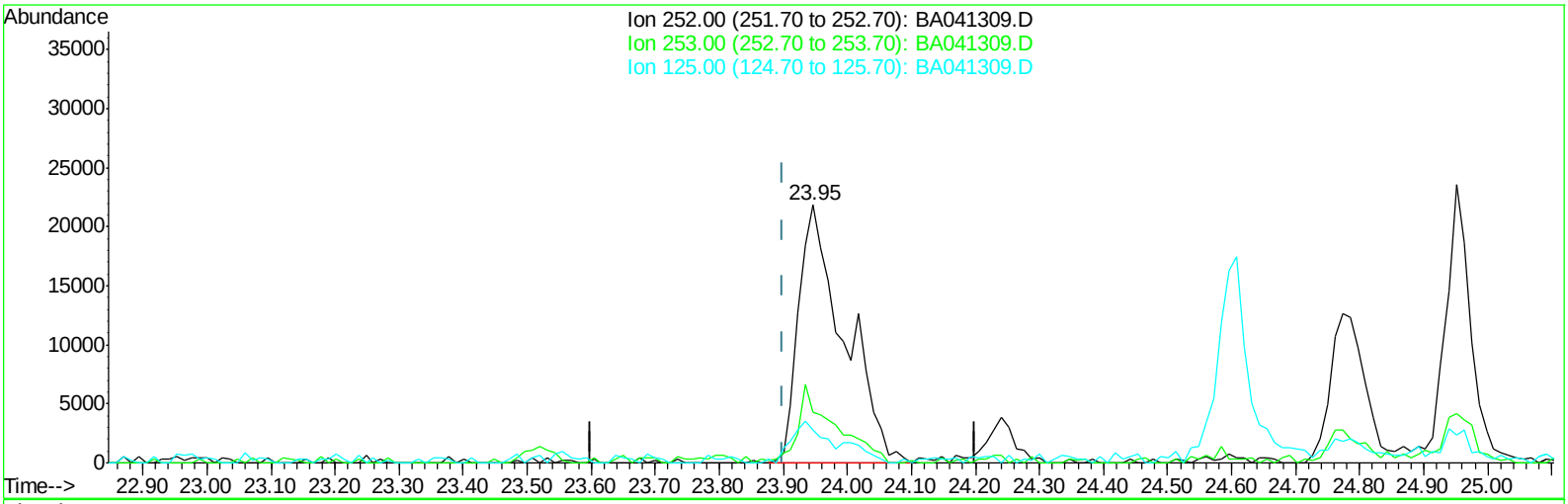
Quant Time: Oct 20 12:36:53 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

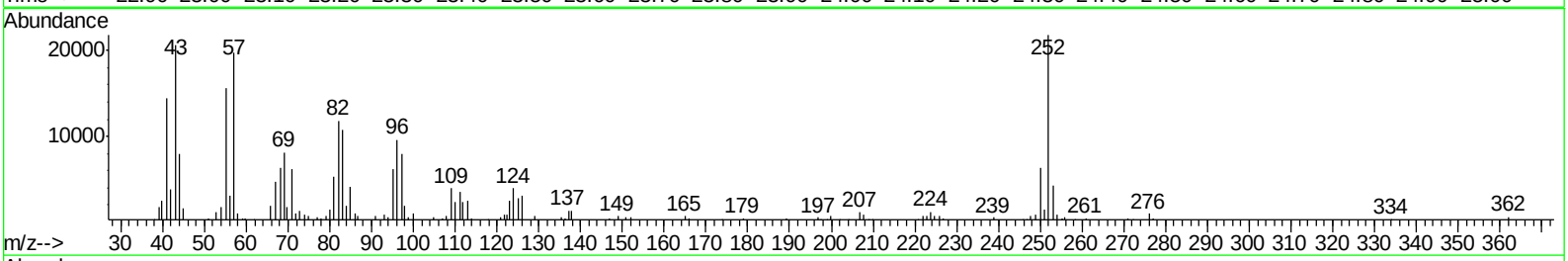


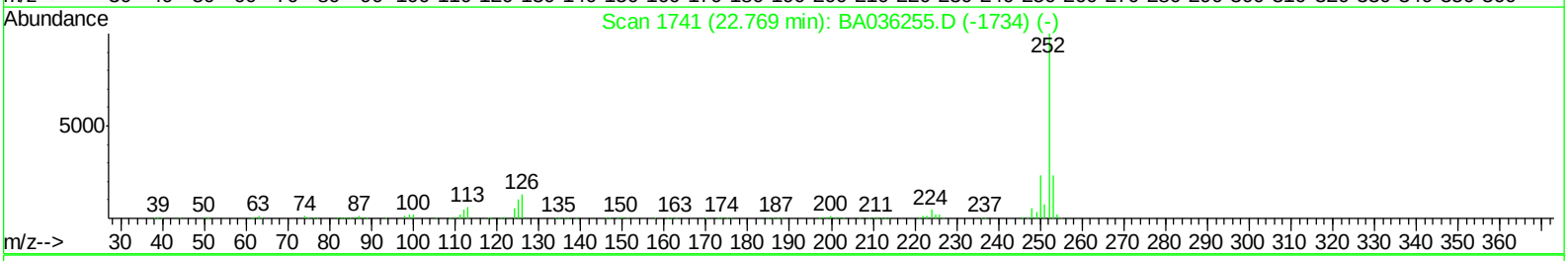
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 20 11:29:52 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







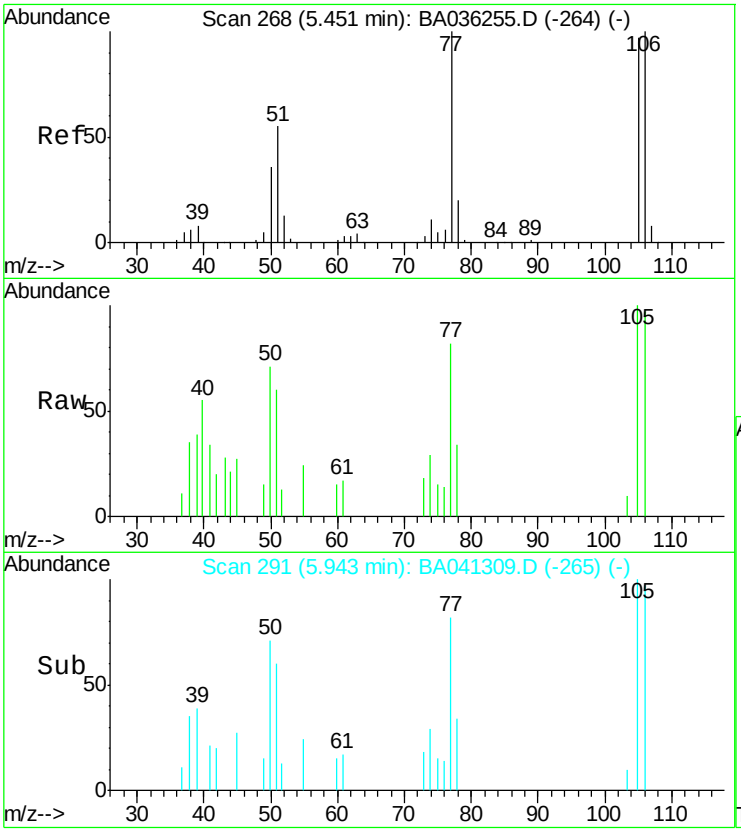
TIC: BA041309.D

(83) Benzo(b)fluoranthene

23.946min (+0.047) 2.81ng/ul

response 107517

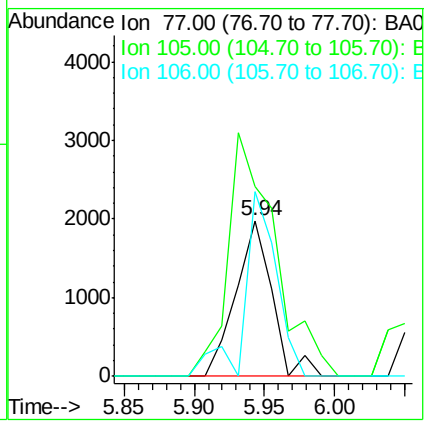
Ion	Exp%	Act%
252.00	100	100
253.00	20.20	19.63
125.00	5.10	12.78#
0.00	0.00	0.00

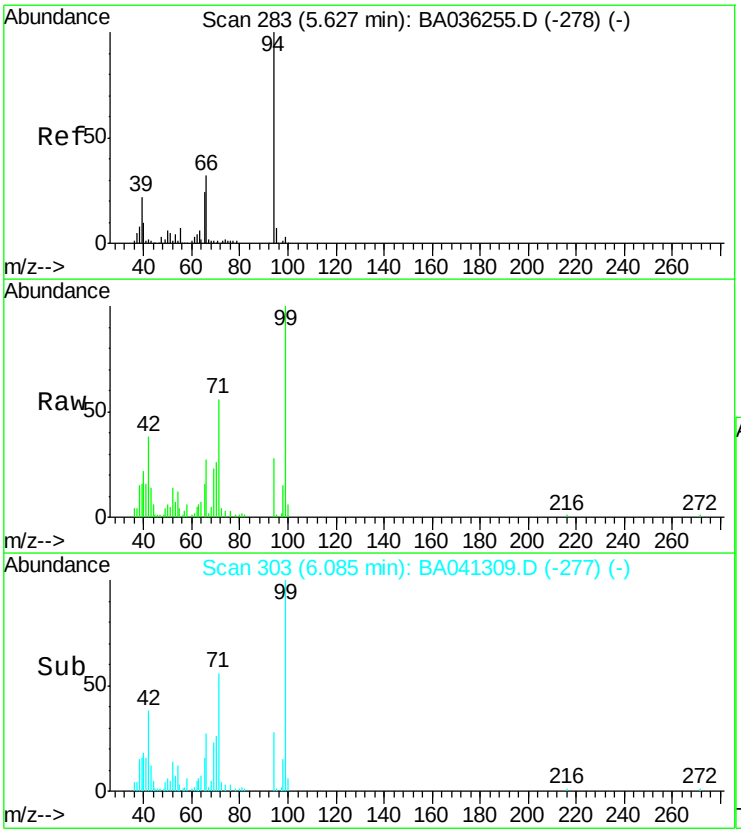


#2
Benzaldehyde
Concen: 0.49 ng/ul
RT: 5.94 min Scan# 291
Delta R.T. 0.00 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion: 77 Resp: 3523

Ion	Ratio	Lower	Upper
77	100		
105	122.4	69.6	104.4#
106	119.2	67.9	101.9#

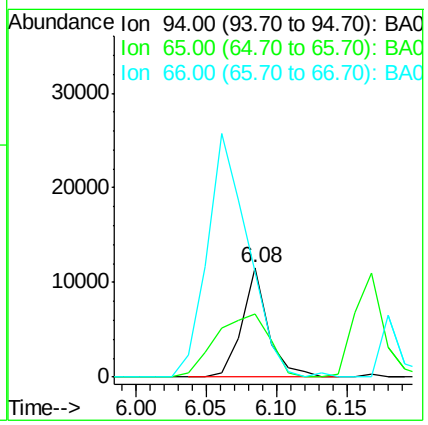


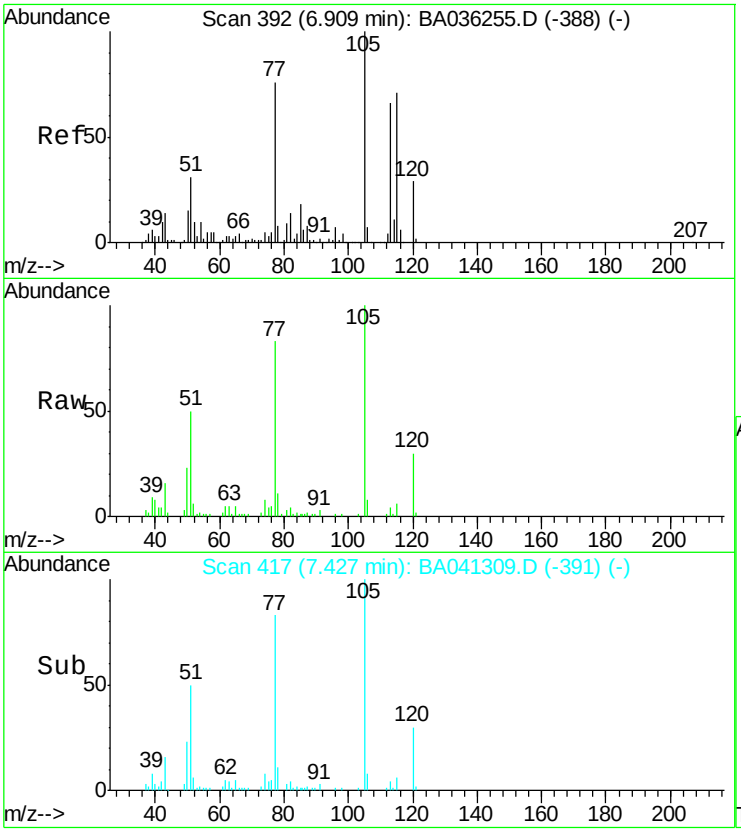


#4
Phenol
Concen: 0.86 ng/ul
RT: 6.08 min Scan# 303
Delta R.T. 0.00 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion: 94 Resp: 14889

Ion	Ratio	Lower	Upper
94	100		
65	57.3	29.0	43.6#
66	95.9	53.7	80.5#

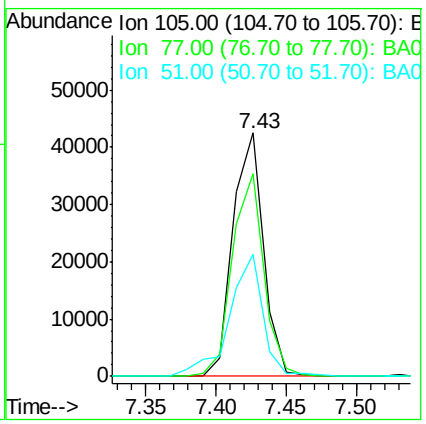


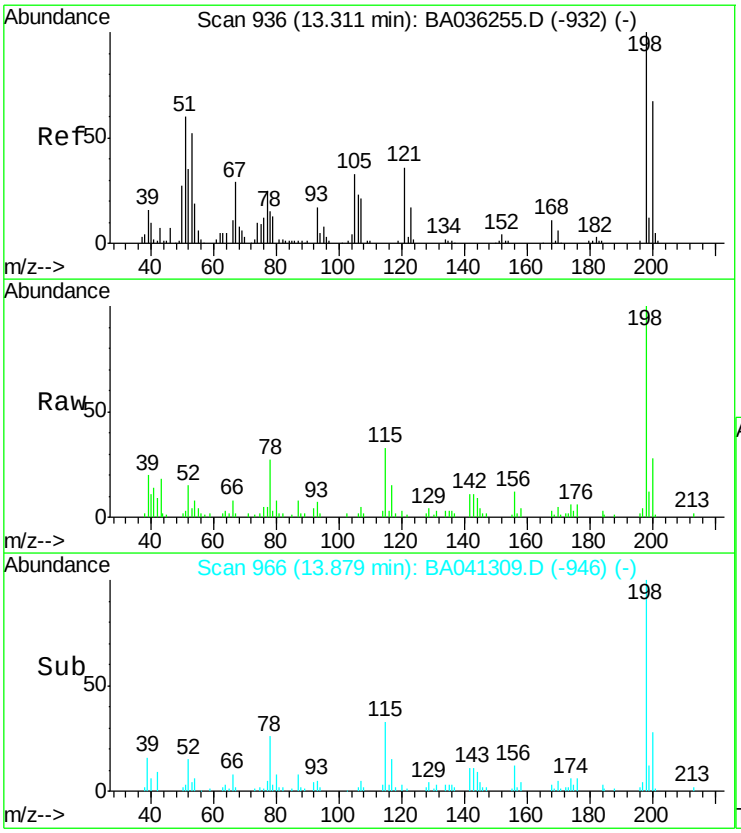


#12
Acetophenone
Concen: 3.03 ng/ul
RT: 7.43 min Scan# 417
Delta R.T. 0.00 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:105 Resp: 64322

Ion	Ratio	Lower	Upper
105	100		
77	83.3	69.4	104.2
51	50.2	42.1	63.1

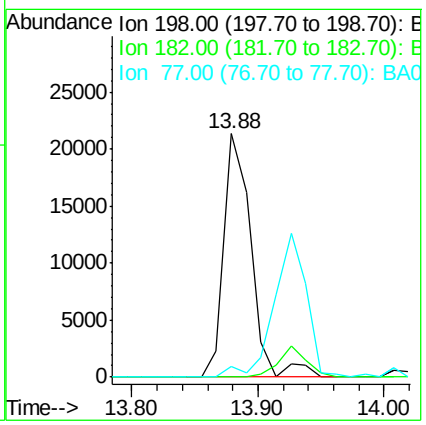


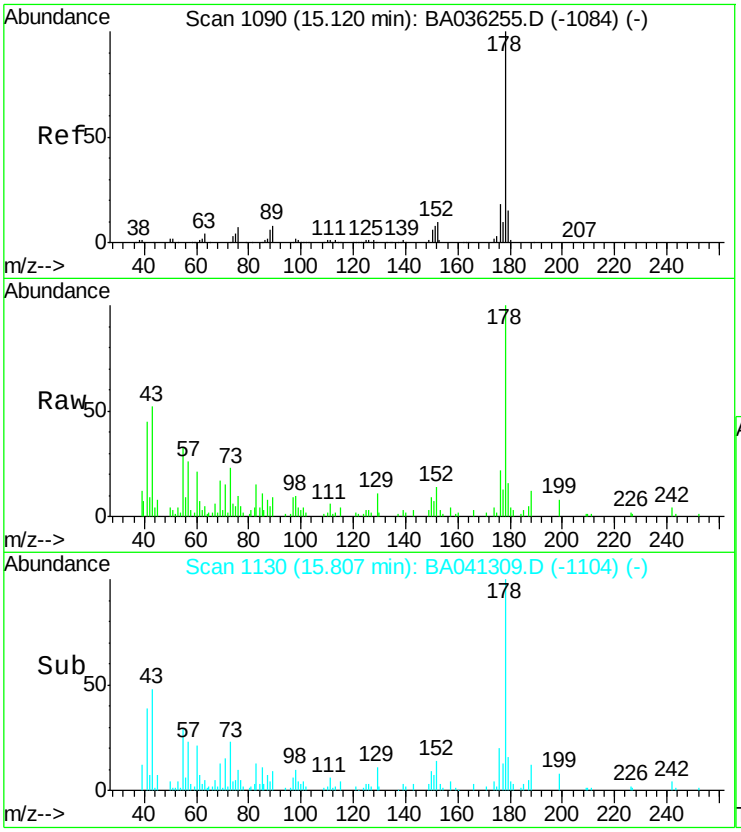


#61
4,6-Dinitro-2-methylphenol
Concen: 3.08 ng/ul
RT: 13.88 min Scan# 966
Delta R.T. -0.06 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:198 Resp: 32025

Ion	Ratio	Lower	Upper
198	100		
182	0.0	2.6	4.0#
77	4.6	17.0	25.4#

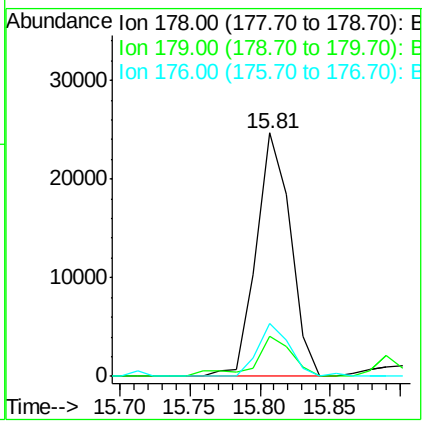


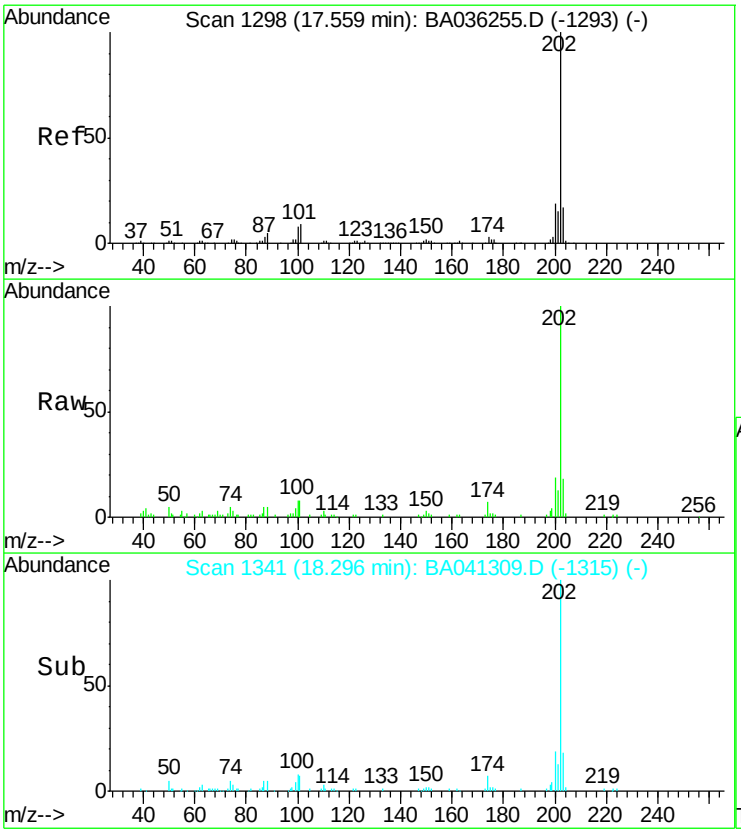


#67
Phenanthrene
Concen: 0.84 ng/ul
RT: 15.81 min Scan# 1130
Delta R.T. 0.00 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:178 Resp: 41864

Ion	Ratio	Lower	Upper
178	100		
179	16.4	12.0	18.0
176	21.6	14.8	22.2

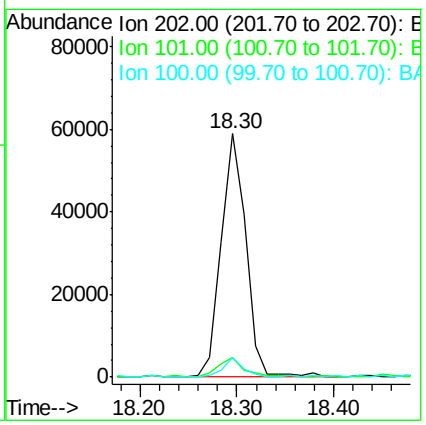


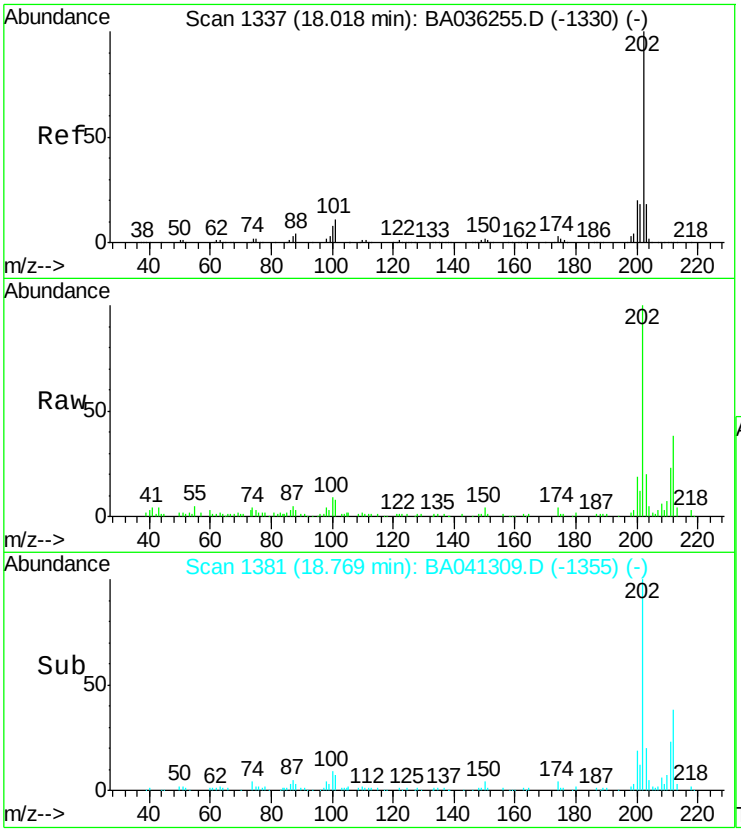


#72
Fluoranthene
Concen: 1.78 ng/ul
RT: 18.30 min Scan# 1341
Delta R.T. 0.01 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:202 Resp: 105148

Ion	Ratio	Lower	Upper
202	100		
101	7.9	2.6	4.0#
100	7.9	2.9	4.3#

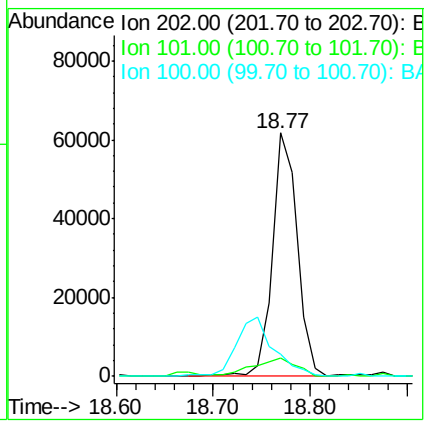


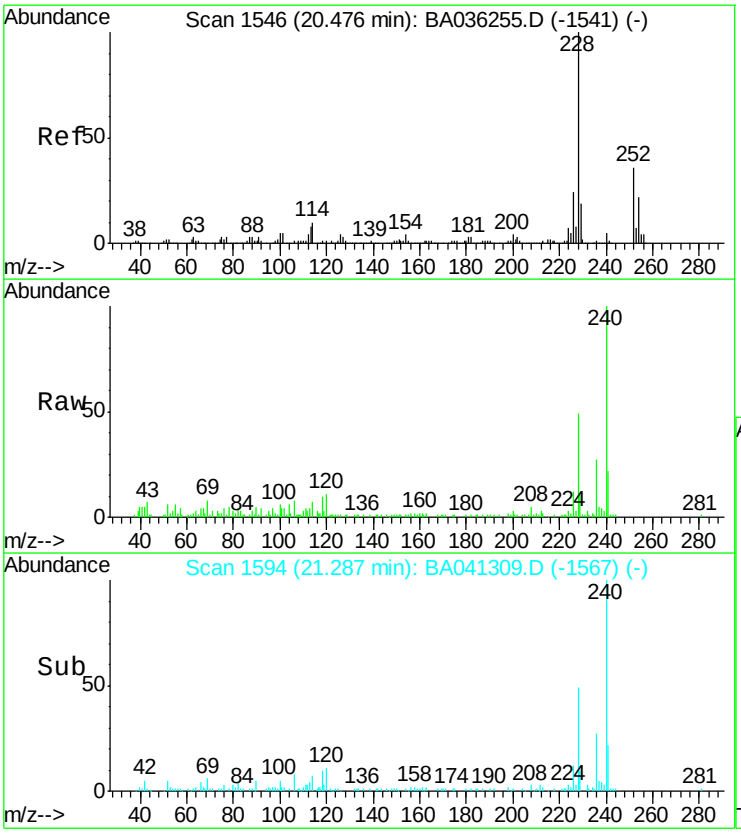


#75
Pyrene
Concen: 2.53 ng/ul
RT: 18.77 min Scan# 1381
Delta R.T. 0.01 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:202 Resp: 109807

Ion	Ratio	Lower	Upper
202	100		
101	7.7	3.5	5.3#
100	9.1	3.4	5.0#

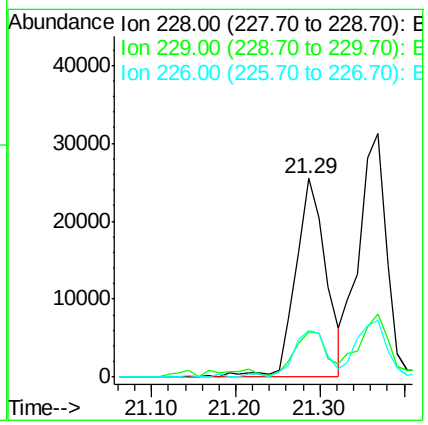


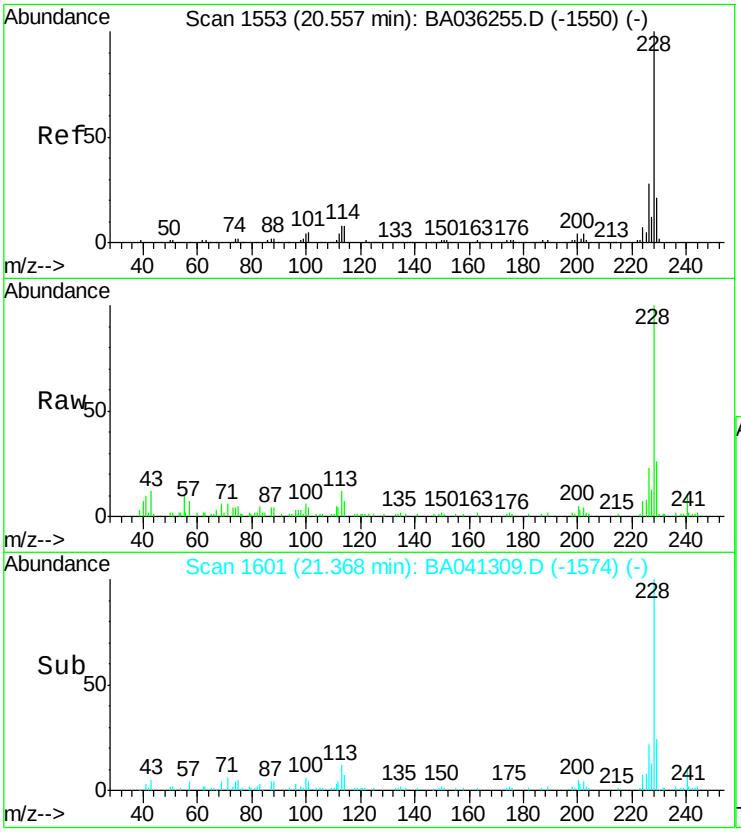


#78
Benzo(a)anthracene
Concen: 1.54 ng/ul
RT: 21.29 min Scan# 1594
Delta R.T. 0.02 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:228 Resp: 64170

Ion	Ratio	Lower	Upper
228	100		
229	22.5	15.9	23.9
226	23.6	20.2	30.2

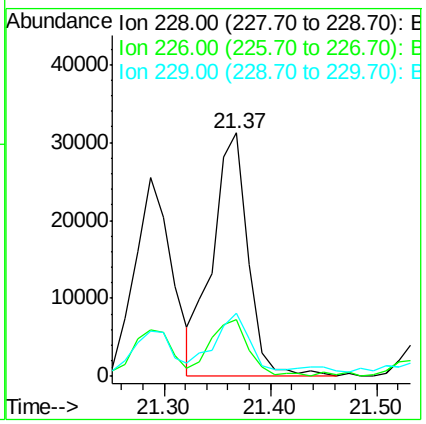


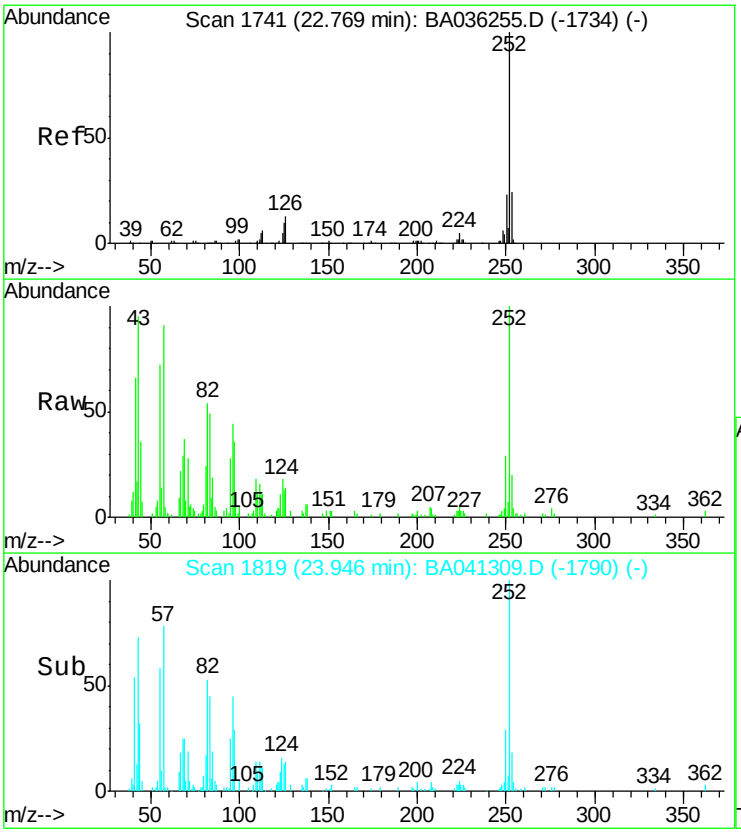


#80
Chrysene
Concen: 2.05 ng/ul
RT: 21.37 min Scan# 1601
Delta R.T. 0.02 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:228 Resp: 72193

Ion	Ratio	Lower	Upper
228	100		
226	23.1	20.6	31.0
229	25.7	14.4	21.6#

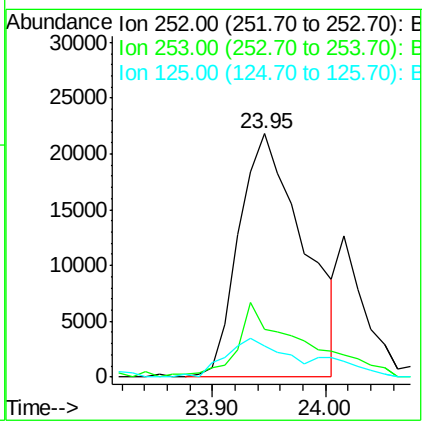


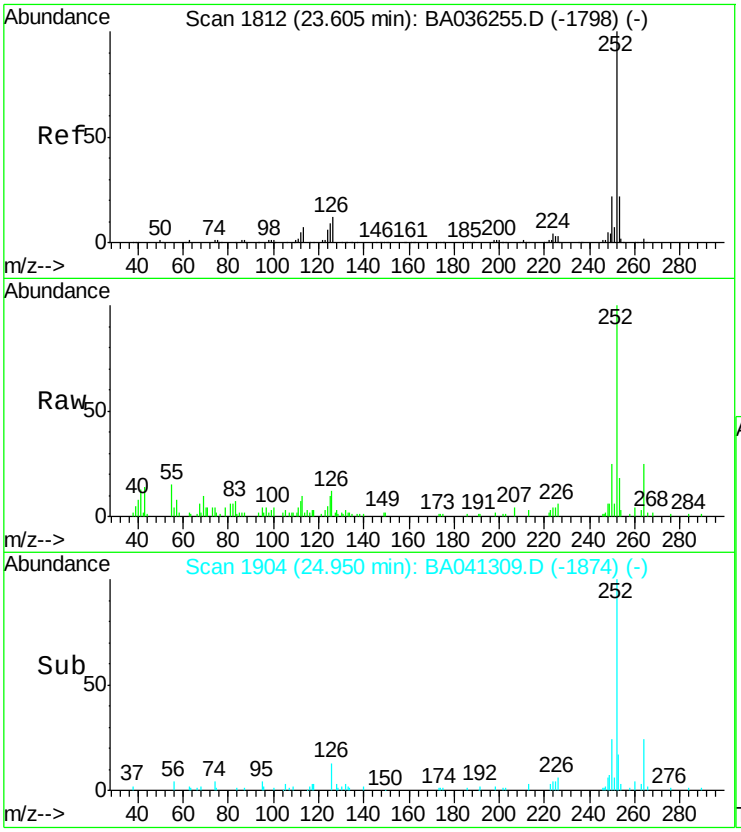


#83
Benzo(b)fluoranthene
Concen: 2.26 ng/ul m
RT: 23.95 min Scan# 1819
Delta R.T. 0.05 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:252 Resp: 86338

Ion	Ratio	Lower	Upper
252	100		
253	19.6	16.2	24.2
125	12.8	4.1	6.1#

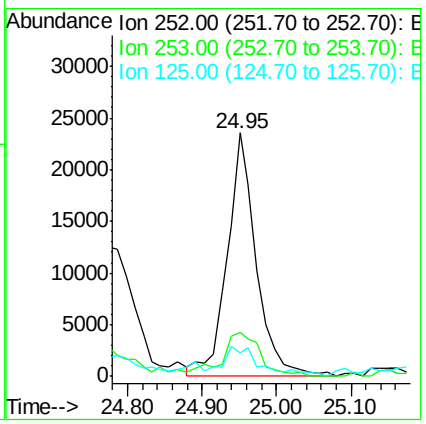


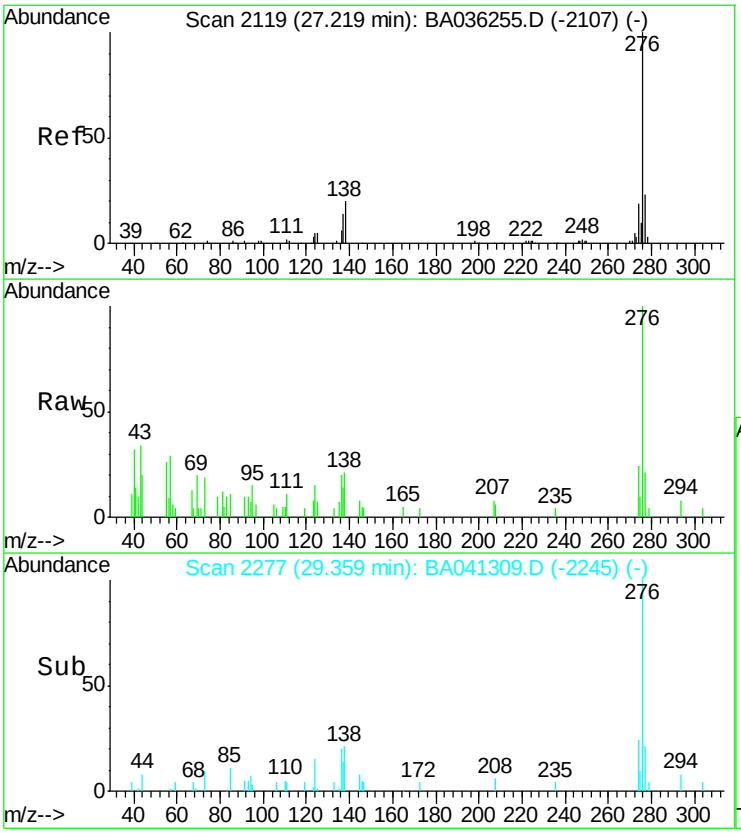


#86
Benzo(a)pyrene
Concen: 1.96 ng/ul
RT: 24.95 min Scan# 1904
Delta R.T. 0.05 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:252 Resp: 64640

Ion	Ratio	Lower	Upper
252	100		
253	17.9	15.1	22.7
125	9.8	3.4	5.2#

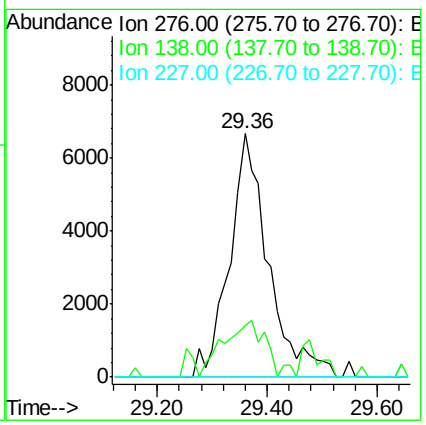


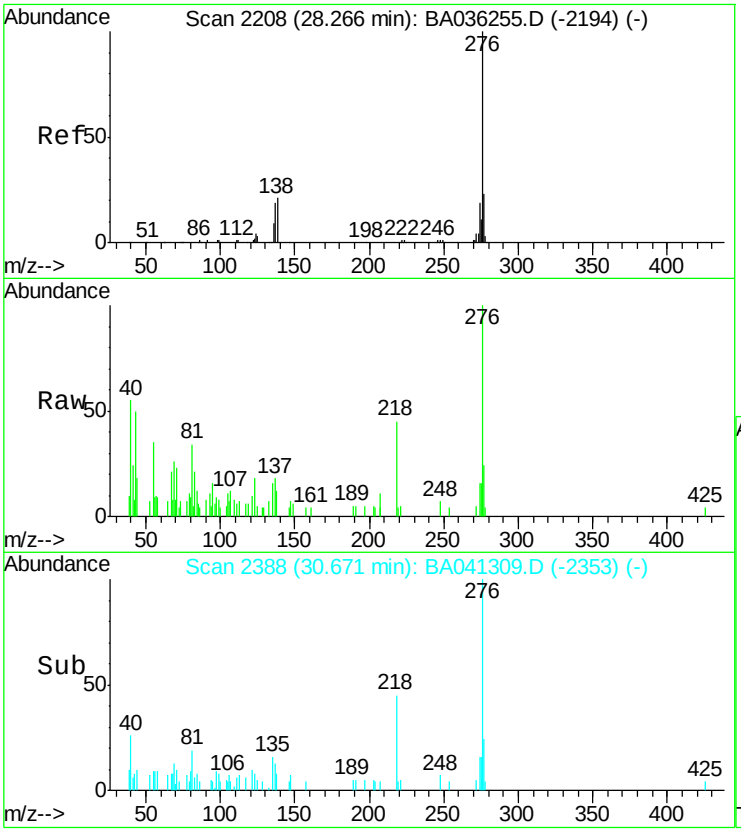


#87
Indeno(1,2,3-cd)pyrene
Concen: 1.04 ng/ul
RT: 29.36 min Scan# 2277
Delta R.T. 0.08 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:276 Resp: 32157

Ion	Ratio	Lower	Upper
276	100		
138	21.4	8.2	12.2#
227	0.0	0.0	0.0

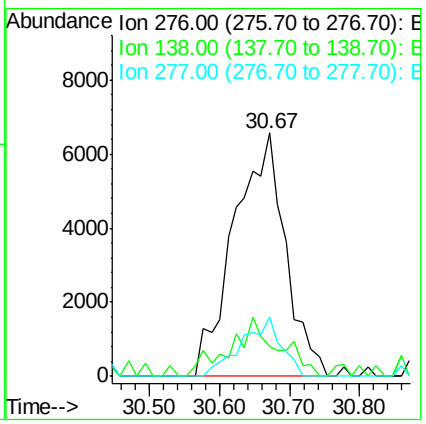




#89
Benzo(g,h,i)perylene
Concen: 1.07 ng/ul
RT: 30.67 min Scan# 2388
Delta R.T. 0.11 min
Lab File: BA041309.D
Acq: 20 Oct 2008 4:17

Tgt Ion:276 Resp: 33548

Ion	Ratio	Lower	Upper
276	100		
138	12.3	10.6	16.0
277	24.2	20.2	30.2



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 20 12:36:53 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	264556	20.00	ng/ul	0.02
16) Naphthalene-d8	9.08	136	858916	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.68	164	607944	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.77	188	977815	20.00	ng/ul	0.02
73) Chrysene-d12	21.31	240	783147	20.00	ng/ul	0.02
81) Perylene-d12	25.15	264	585624	20.00	ng/ul	0.08
System Monitoring Compounds						
3) Phenol-d5	6.06	99	546514	34.12	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.17	67	393425	36.23	ng/ul	0.01
7) 2-Chlorophenol-d4	6.30	132	481586	35.38	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	263100	24.21	ng/ul	0.00
17) Nitrobenzene-d5	7.71	128	281070	36.96	ng/ul	0.02
20) 2-Nitrophenol-d4	8.32	143	329683	35.22	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.79	165	545318	31.48	ng/ul	0.00
27) 4-Chloroaniline-d4	9.24	131	156659	9.14	ng/ul	0.02
41) Dimethylphthalate-d6	12.13	166	1513189	37.37	ng/ul	0.01
44) Acenaphthylene-d8	12.35	160	1744443	35.44	ng/ul	0.01
49) 4-Nitrophenol-d4	12.99	143	304394	36.89	ng/ul	0.02
55) Fluorene-d10	13.76	176	1137489	34.93	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.93	200	355836	35.17	ng/ul	0.00
68) Anthracene-d10	15.89	188	1300894	27.79	ng/ul	0.03
74) Pyrene-d10	18.75	212	1184963	34.63	ng/ul	0.03
85) Benzo(a)pyrene-d12	24.89	264	791782	24.83	ng/ul	0.07
Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	3523	0.49	ng/ul#	62
4) Phenol	6.08	94	14889	0.86	ng/ul#	64
12) Acetophenone	7.43	105	64322	3.03	ng/ul	96
61) 4,6-Dinitro-2-methylphenol	13.88	198	32025	3.08	ng/ul#	68
67) Phenanthrene	15.81	178	41864	0.84	ng/ul	95
72) Fluoranthene	18.30	202	105148	1.78	ng/ul#	87
75) Pyrene	18.77	202	109807	2.53	ng/ul#	88
78) Benzo(a)anthracene	21.29	228	64170	1.54	ng/ul	96
80) Chrysene	21.37	228	72193	2.05	ng/ul#	90
83) Benzo(b)fluoranthene	23.95	252	86338m	2.26	ng/ul	
86) Benzo(a)pyrene	24.95	252	64640	1.96	ng/ul#	95
87) Indeno(1,2,3-cd)pyrene	29.36	276	32157	1.04	ng/ul#	70
89) Benzo(g,h,i)perylene	30.67	276	33548	1.07	ng/ul	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.990	37	40	42	rBV2	25887	48454	0.92%	0.059%
2	3.072	42	47	51	rBV3	138404	409766	7.79%	0.501%
3	3.531	82	86	92	rVV	238971	480120	9.13%	0.588%
4	3.920	116	119	125	rBV	230780	437894	8.33%	0.536%
5	4.155	134	139	145	rVV2	67254	168723	3.21%	0.206%
6	4.250	145	147	155	rVB	64778	135183	2.57%	0.165%
7	5.296	234	236	241	rBV2	17546	43256	0.82%	0.053%
8	5.967	287	293	297	rVV4	19428	76347	1.45%	0.093%
9	6.061	297	301	307	rVV	1300231	2287172	43.50%	2.799%
10	6.167	307	310	317	rVV	1125305	1598664	30.40%	1.956%
11	6.297	317	321	326	rVV	1372838	2233926	42.48%	2.734%
12	6.697	351	355	359	rVV	994294	1735494	33.01%	2.124%
13	6.992	377	380	388	rVB4	18288	57884	1.10%	0.071%
14	7.391	411	414	422	rBV2	1081147	1968659	37.44%	2.409%
15	7.709	437	441	443	rBV	1371312	2318036	44.08%	2.837%
16	8.319	490	493	496	rBV	1383702	2214918	42.12%	2.711%
17	8.567	508	514	518	rVB2	56412	133346	2.54%	0.163%
18	8.637	518	520	526	rBV2	23813	39552	0.75%	0.048%
19	8.791	530	533	536	rBV	1922910	2791150	53.08%	3.416%
20	9.085	555	558	561	rBV	1303574	1933315	36.77%	2.366%
21	9.238	568	571	583	rVB	359902	644992	12.27%	0.789%
22	11.071	723	727	730	rBV2	24895	49065	0.93%	0.060%
23	12.129	813	817	820	rBV	2501036	3852993	73.28%	4.715%
24	12.353	832	836	839	rBV	2464745	3815834	72.57%	4.670%
25	12.681	860	864	867	rBV	1601587	2460420	46.79%	3.011%
26	12.973	885	889	894	rBV	1252226	2551745	48.53%	3.123%
27	13.103	898	900	904	rVV	93287	133667	2.54%	0.164%
28	13.174	904	906	910	rVB3	25963	45347	0.86%	0.055%
29	13.350	917	921	923	rBV3	20729	39156	0.74%	0.048%
30	13.643	942	946	949	rBV2	26358	47344	0.90%	0.058%
31	13.761	951	956	959	rBV	2512758	4201749	79.91%	5.142%
32	13.879	964	966	967	rVV	111540	171090	3.25%	0.209%
33	13.926	967	970	973	rVV	1465497	2340150	44.51%	2.864%
34	14.019	975	978	982	rVV	36950	68549	1.30%	0.084%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.183	987	992	999	rVB4	14753	59066	1.12%	0.072%
36	14.359	1003	1007	1011	rVB3	29713	58946	1.12%	0.072%
37	14.712	1034	1037	1038	rBV2	53396	83109	1.58%	0.102%
38	15.181	1074	1077	1079	rBV	133161	213940	4.07%	0.262%
39	15.299	1084	1087	1089	rBV2	53609	77152	1.47%	0.094%
40	15.346	1089	1091	1097	rVB	45558	88577	1.68%	0.108%
41	15.512	1103	1105	1109	rVB5	20810	38194	0.73%	0.047%
42	15.641	1114	1116	1120	rBV2	52861	96709	1.84%	0.118%
43	15.712	1120	1122	1123	rBV	26537	38655	0.74%	0.047%
44	15.771	1123	1127	1129	rBV	1364736	2465351	46.89%	3.017%
45	15.819	1129	1131	1133	rVB	160007	244746	4.65%	0.300%
46	15.890	1133	1137	1140	rBV	2029568	3549925	67.51%	4.344%
47	16.031	1146	1149	1152	rBV4	23280	45222	0.86%	0.055%
48	16.089	1152	1154	1157	rVB3	33948	42233	0.80%	0.052%
49	16.148	1157	1159	1161	rBV3	18559	39343	0.75%	0.048%
50	16.536	1189	1192	1194	rBV	37875	64827	1.23%	0.079%
51	16.583	1194	1196	1199	rVB3	39250	72534	1.38%	0.089%
52	16.749	1208	1210	1213	rVB3	41376	68362	1.30%	0.084%
53	16.879	1213	1221	1224	rBV	117051	301239	5.73%	0.369%
54	16.950	1224	1227	1231	rBV	377206	665752	12.66%	0.815%
55	17.045	1231	1235	1249	rVB2	955638	1981722	37.69%	2.425%
56	17.388	1262	1264	1267	rBV4	37178	82019	1.56%	0.100%
57	17.989	1311	1315	1318	rBV3	20314	52786	1.00%	0.065%
58	18.165	1327	1330	1331	rBV3	26786	46289	0.88%	0.057%
59	18.213	1331	1334	1339	rVV6	70238	271454	5.16%	0.332%
60	18.296	1339	1341	1344	rVB	144465	238928	4.54%	0.292%
61	18.450	1351	1354	1356	rBV3	28485	63055	1.20%	0.077%
62	18.497	1356	1358	1359	rVV2	56691	86045	1.64%	0.105%
63	18.533	1359	1361	1364	rVB3	55901	107389	2.04%	0.131%
64	18.675	1370	1373	1375	rBV2	142832	278275	5.29%	0.341%
65	18.746	1375	1379	1386	rVB	1694517	3518607	66.92%	4.306%
66	19.477	1438	1441	1444	rVB2	30227	63471	1.21%	0.078%
67	19.618	1451	1453	1455	rBV3	22154	38484	0.73%	0.047%
68	19.677	1455	1458	1461	rBV3	56714	138992	2.64%	0.170%
69	20.766	1547	1550	1554	rBV4	23477	76533	1.46%	0.094%
70	20.966	1564	1567	1570	rVB	82071	140659	2.68%	0.172%
71	21.109	1576	1579	1590	rBV	818147	1762844	33.53%	2.157%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

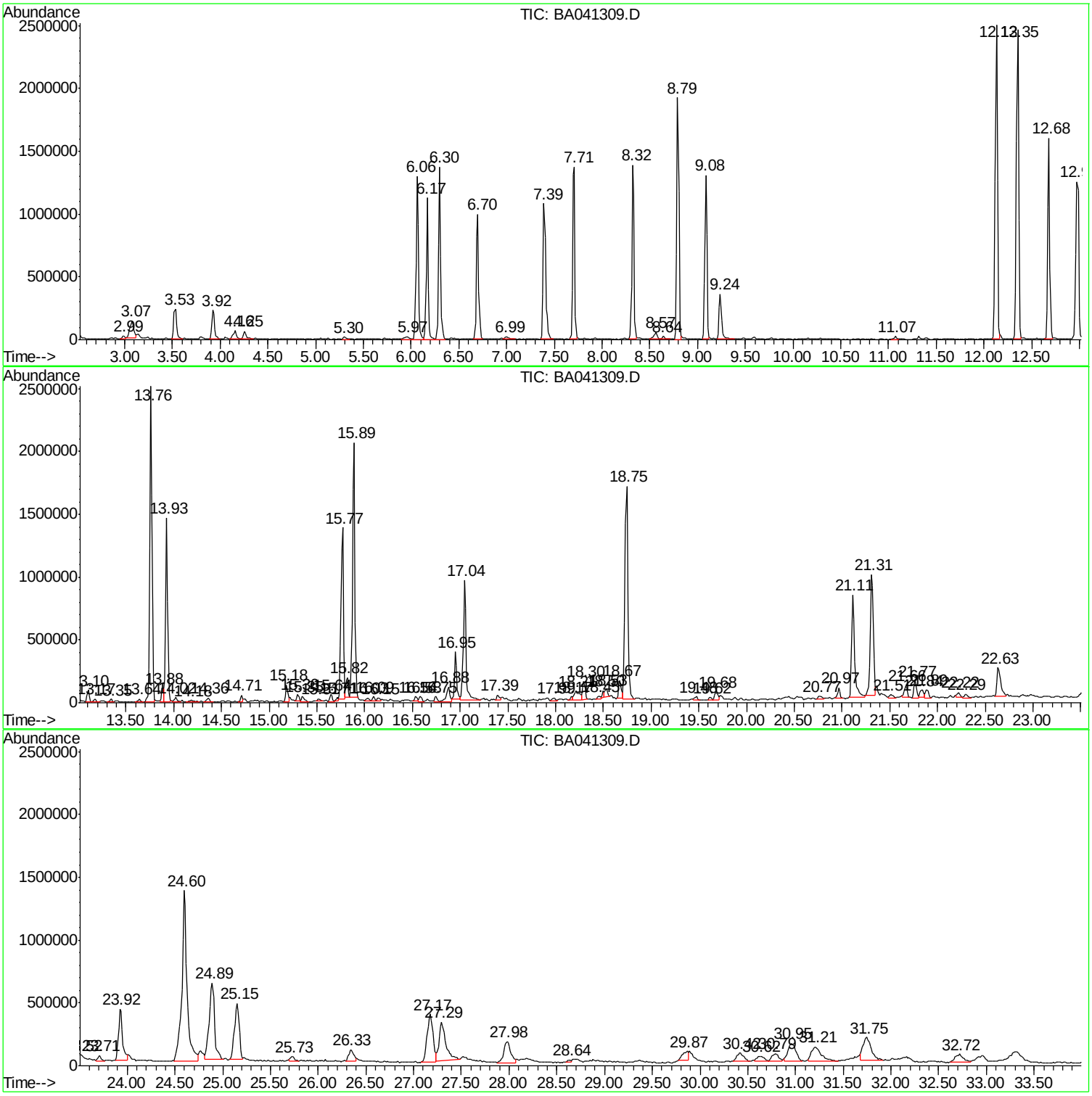
72	21.310	1591	1596	1599	rBV	963621	2165664	41.19%	2.650%
73	21.509	1611	1613	1617	rVB5	26526	66601	1.27%	0.082%
74	21.663	1623	1626	1630	rVB3	91995	184347	3.51%	0.226%
75	21.768	1632	1635	1638	rBV	135722	266446	5.07%	0.326%
76	21.839	1638	1641	1643	rVV2	59306	155388	2.96%	0.190%
77	21.886	1643	1645	1649	rVB2	66293	146283	2.78%	0.179%
78	22.218	1671	1673	1676	rVB4	35835	65351	1.24%	0.080%
79	22.289	1677	1679	1684	rVB5	28771	75095	1.43%	0.092%
80	22.633	1705	1708	1715	rBV2	224039	612450	11.65%	0.749%
81	23.521	1778	1783	1788	rBV5	42052	155338	2.95%	0.190%
82	23.710	1796	1799	1803	rVB5	41520	102305	1.95%	0.125%
83	23.922	1813	1817	1824	rBV3	411334	1249426	23.76%	1.529%
84	24.597	1865	1874	1886	rBV	1355903	5258172	100.00%	6.435%
85	24.891	1892	1899	1909	rVB	606815	2287493	43.50%	2.799%
86	25.151	1914	1921	1926	rBV	446431	1520414	28.92%	1.861%
87	25.732	1967	1970	1975	rVB7	36142	106912	2.03%	0.131%
88	26.335	2017	2021	2026	rBV5	90088	330868	6.29%	0.405%
89	27.175	2084	2092	2097	rBV2	379673	1593152	30.30%	1.950%
90	27.294	2097	2102	2118	rVB2	301336	1491174	28.36%	1.825%
91	27.978	2151	2160	2168	rBV4	169516	859004	16.34%	1.051%
92	28.639	2212	2216	2217	rBV3	16373	42201	0.80%	0.052%
93	29.868	2312	2320	2321	rBV7	72250	313334	5.96%	0.383%
94	30.422	2360	2367	2375	rVB9	68654	340166	6.47%	0.416%
95	30.624	2379	2384	2392	rVB8	41198	211208	4.02%	0.258%
96	30.788	2392	2398	2404	rBV10	62679	299491	5.70%	0.367%
97	30.954	2406	2412	2421	rVB5	138557	794152	15.10%	0.972%
98	31.215	2427	2434	2453	rVB6	109405	771501	14.67%	0.944%
99	31.749	2473	2479	2493	rVB6	183471	1129314	21.48%	1.382%
100	32.718	2553	2561	2571	rBV6	62168	326568	6.21%	0.400%

Sum of corrected areas: 81715212

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

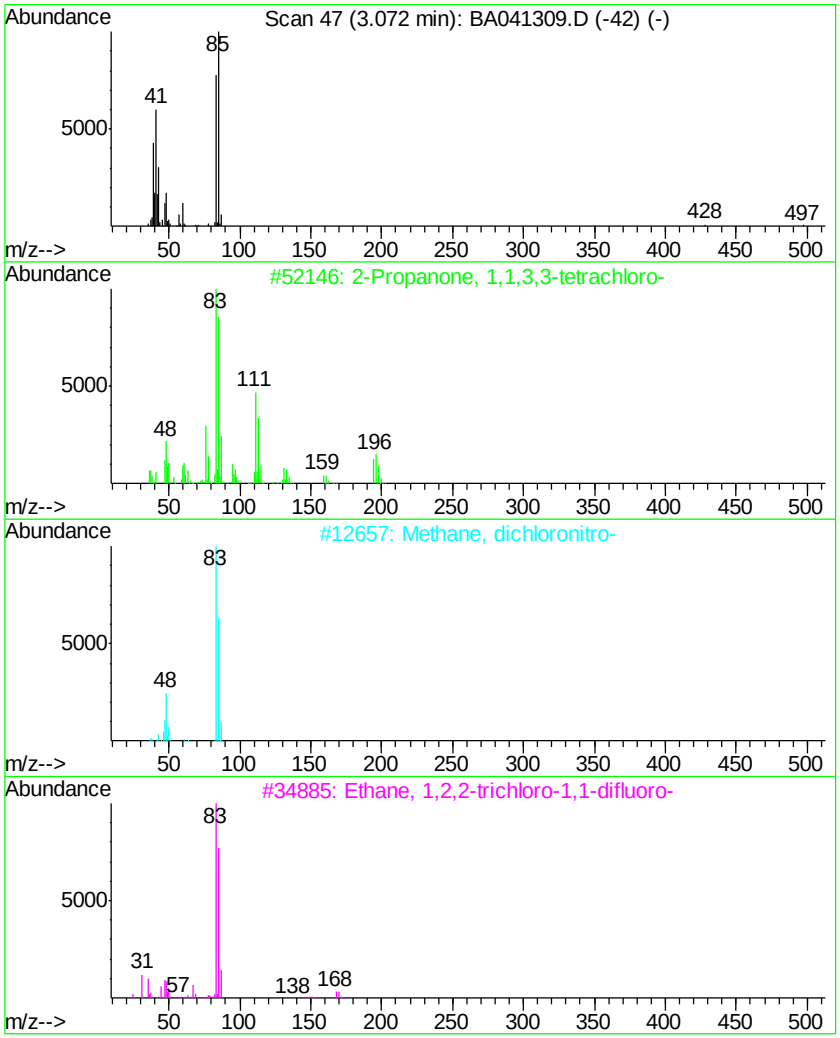
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

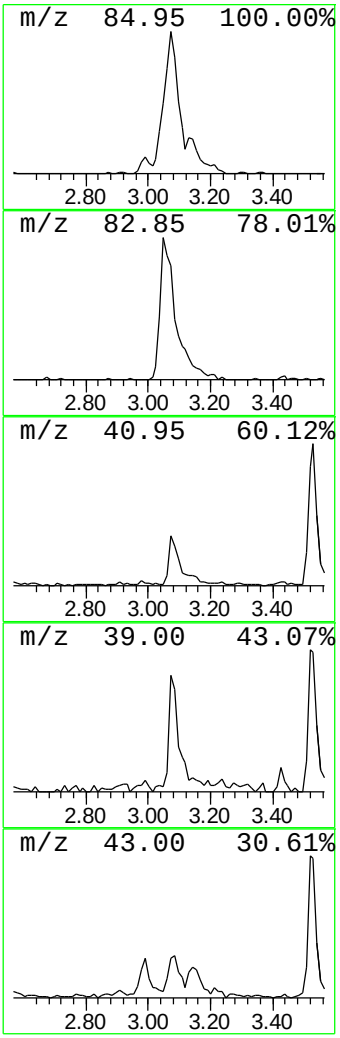
****

Peak Number 1 unknown3.07 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.07	4.72 ng/ul	409766	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanone, 1,1,3,3-tetrachloro-	194	C3H2Cl4O	000632-21-3	45
2	Methane, dichloronitro-	129	CHCl2NO2	007119-89-3	42
3	Ethane, 1,2,2-trichloro-1,1-difl...	168	C2HCl3F2	000354-21-2	25
4	Trichloromethane	118	CHCl3	000067-66-3	17
5	2-Pyrrolidinone	85	C4H7NO	000616-45-5	9





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

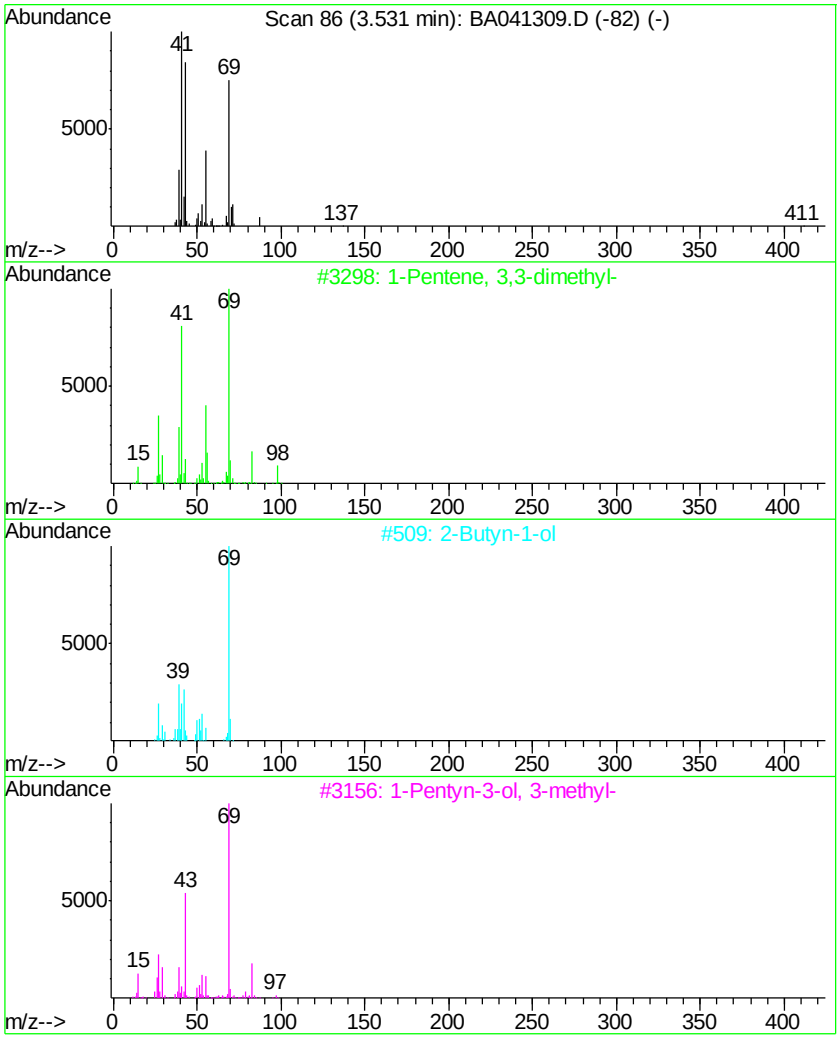
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

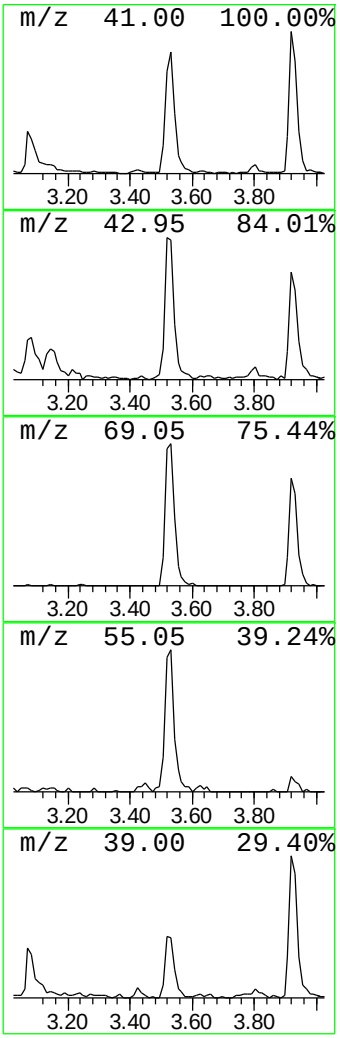
****

Peak Number 2 1-Pentene, 3,3-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.53	5.53 ng/ul	480120	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	53
2	2-Butyn-1-ol	70	C4H6O	000764-01-2	50
3	1-Pentyn-3-ol, 3-methyl-	98	C6H10O	000077-75-8	42
4	1-Pentene, 2,3-dimethyl-	98	C7H14	003404-72-6	40
5	Butane, 2,3-dimethyl-2-nitro-	131	C6H13NO2	034075-28-0	40





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

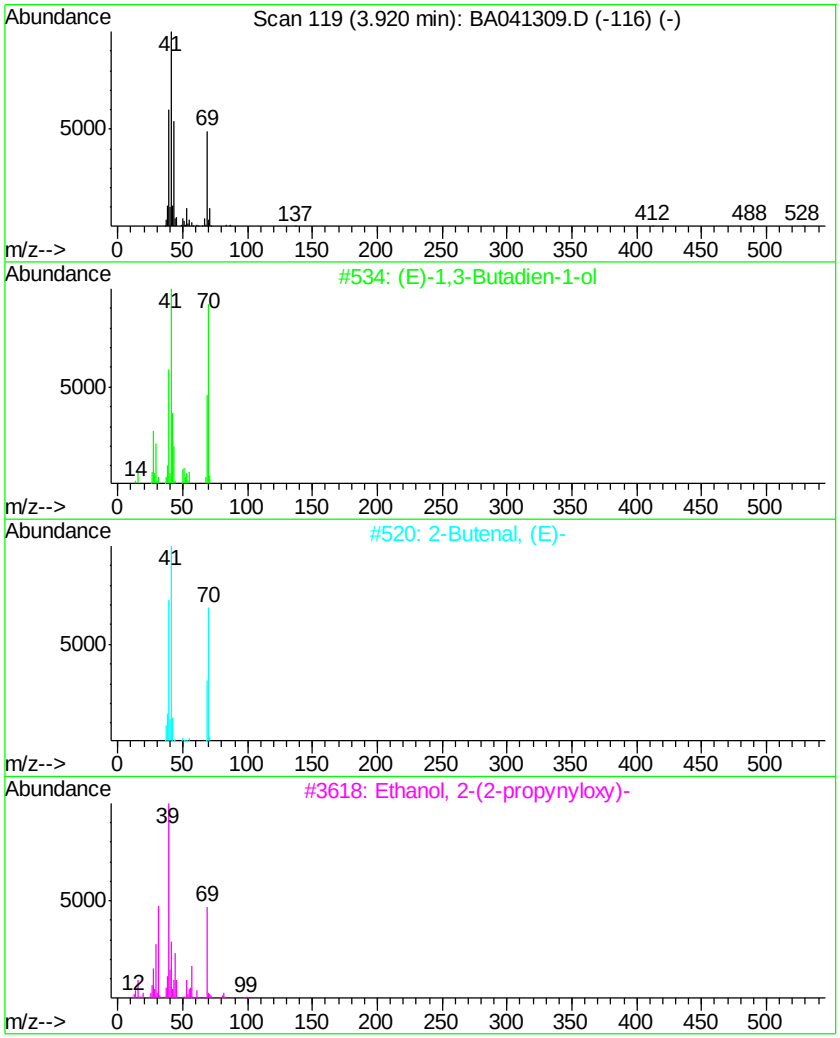
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

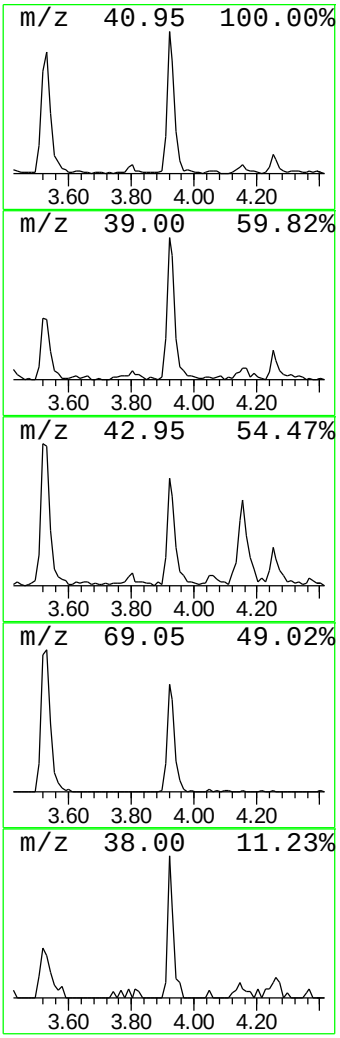
****

Peak Number 3 unknown3.92 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.92	5.05 ng/ul	437894	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-1,3-Butadien-1-ol	70	C4H6O	070411-98-2	56
2	2-Butenal, (E)-	70	C4H6O	000123-73-9	45
3	Ethanol, 2-(2-propynyloxy)-	100	C5H8O2	003973-18-0	37
4	2,3-Dihydrofuran	70	C4H6O	001191-99-7	36
5	Cyclopropanecarboxylic acid, met...	100	C5H8O2	002868-37-3	36





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

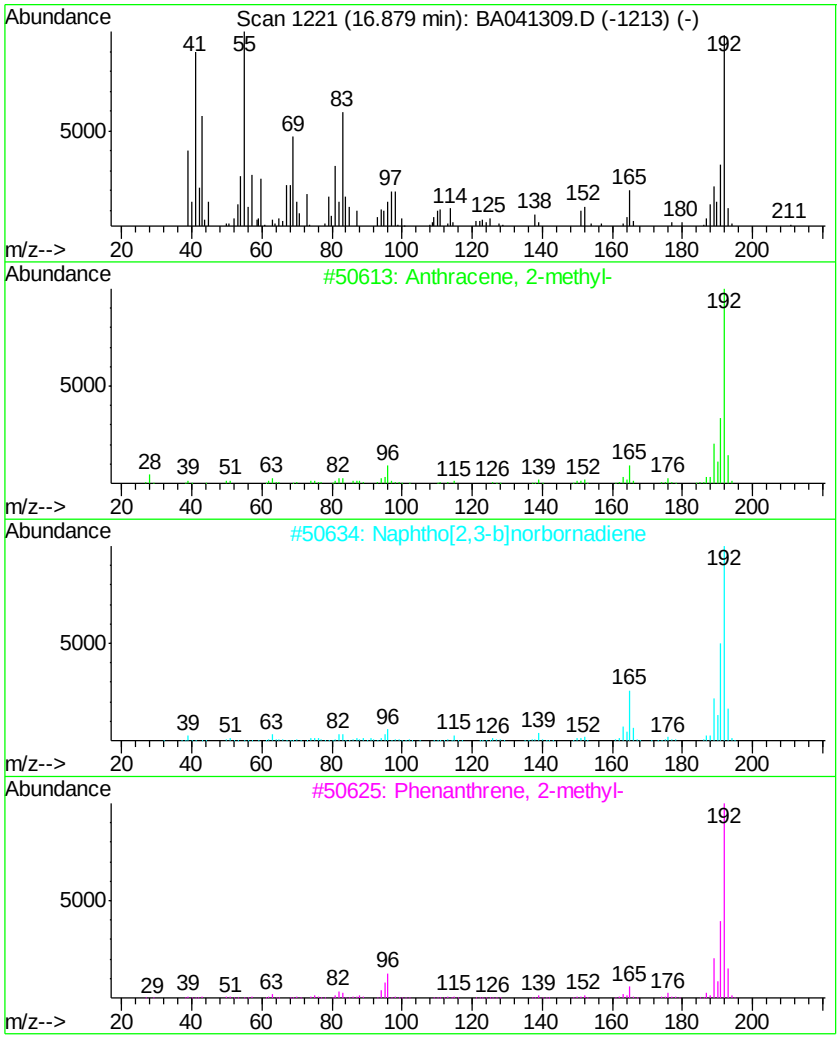
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

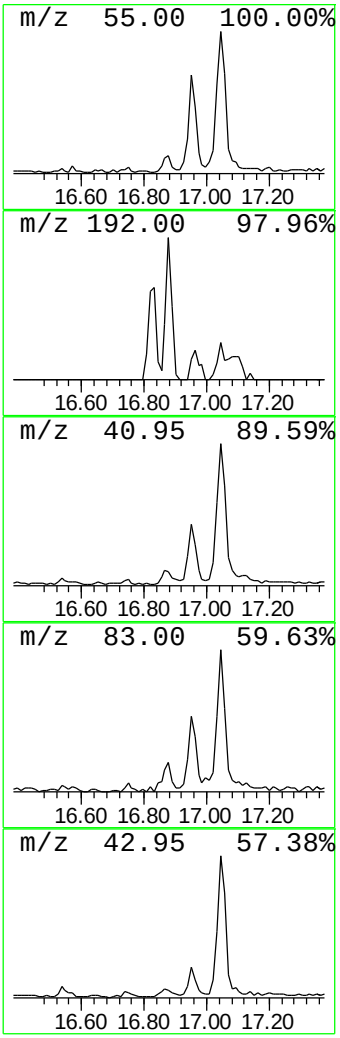
****

Peak Number 4 unknown16.88 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.88	2.44 ng/ul	301239	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	46
2	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	46
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	41
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	38
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	38





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

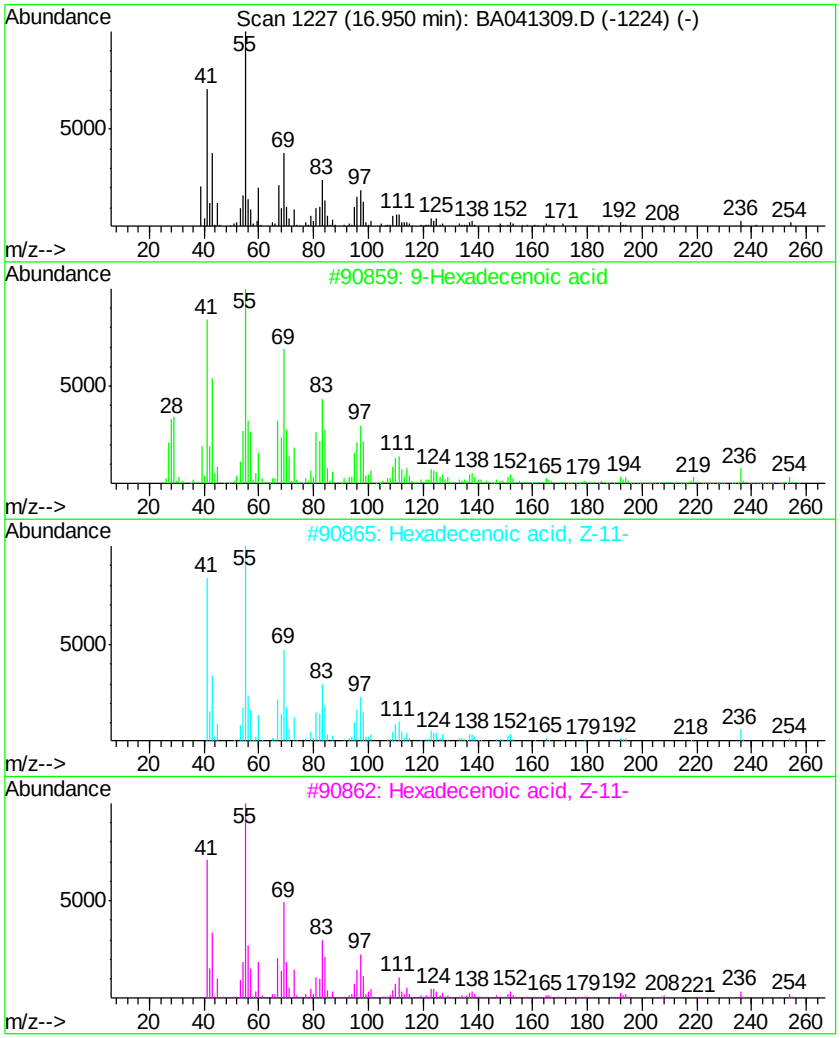
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

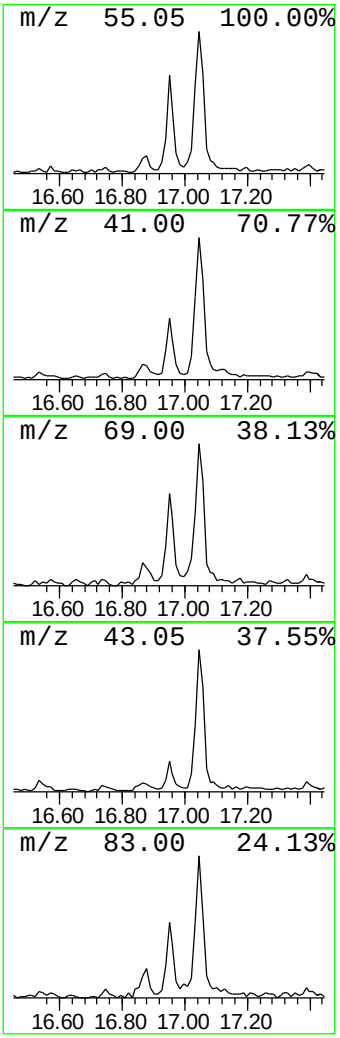
****

Peak Number 5 9-Hexadecenoic acid Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.95	5.40 ng/ul	665752	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Hexadecenoic acid	254	C16H30O2	002091-29-4	91
2	Hexadecenoic acid, Z-11-	254	C16H30O2	002416-20-8	89
3	Hexadecenoic acid, Z-11-	254	C16H30O2	002416-20-8	64
4	7-Hexadecenoic acid, methyl este...	268	C17H32O2	056875-67-3	49
5	2-Dodecenal, (E)-	182	C12H22O	020407-84-5	46





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

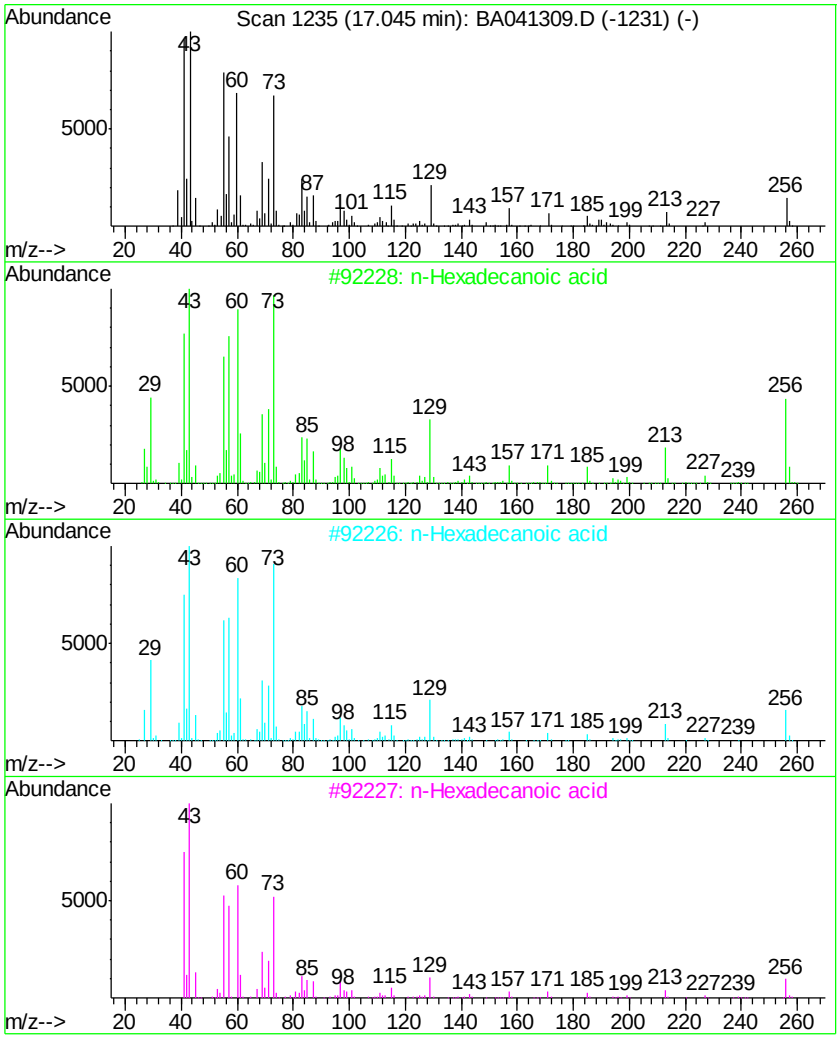
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

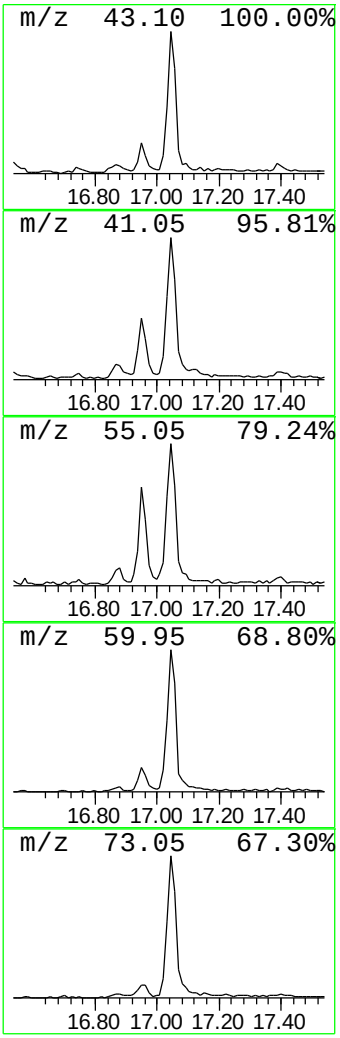
****

Peak Number 6 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.04	16.08 ng/ul	1981720	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	72





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

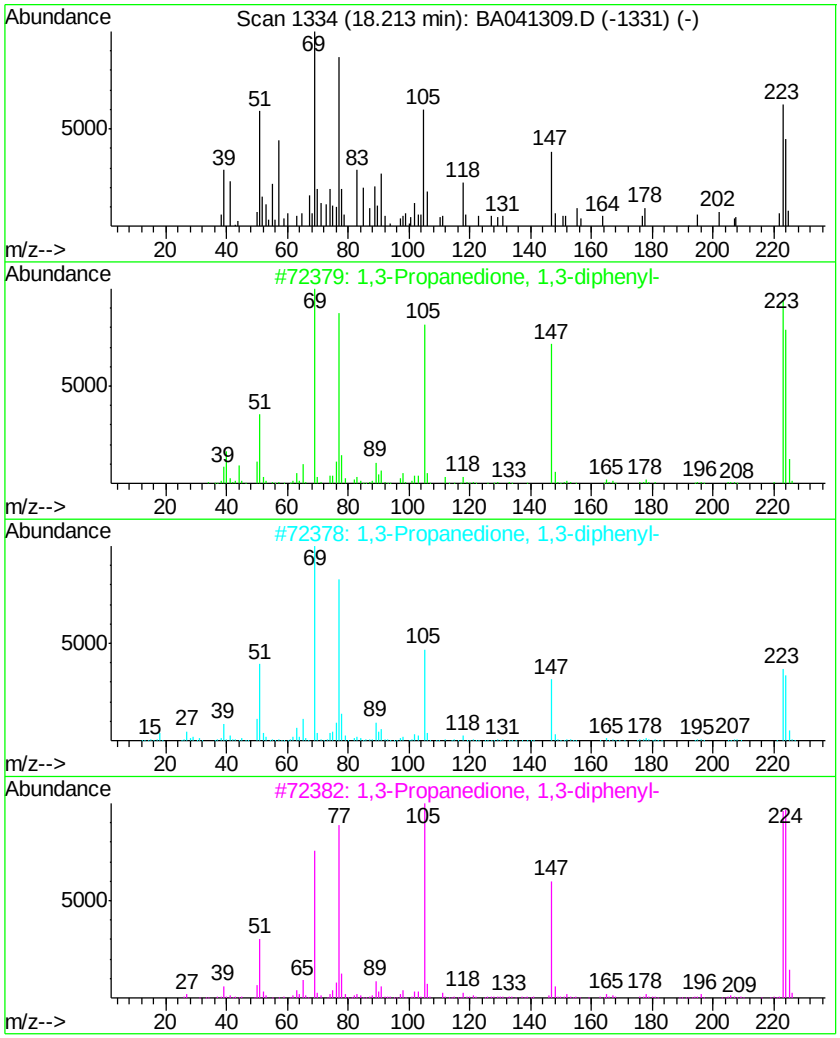
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

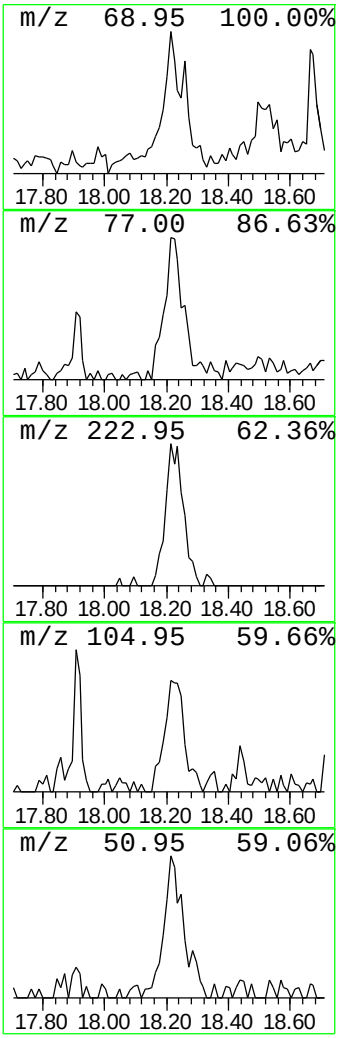
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 1,3-Propanedione, 1,3-diphe... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.21	2.20 ng/ul	271454	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	91
2	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	90
3	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	64
4	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	50
5	1-Phenyl-3-m-hydroxyphenyl-prope...	224	C15H12O2	1000144-41-1	49





Library Search Compound Report

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Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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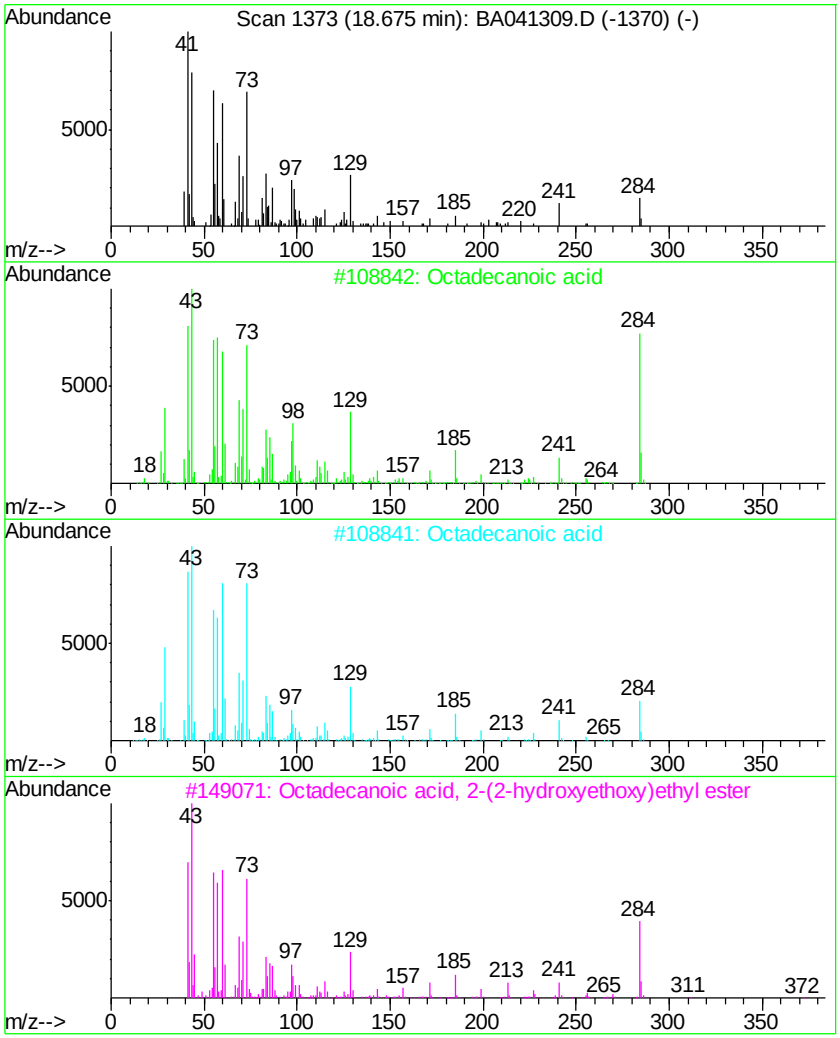
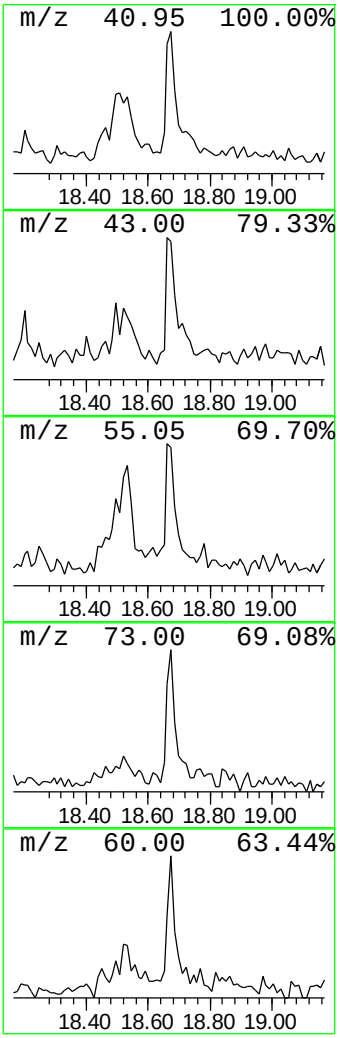
Peak Number 8 Octadecanoic acid Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.67	2.57 ng/ul	278275	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	64
2	Octadecanoic acid	284	C18H36O2	000057-11-4	64
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	64
4	Octadecanoic acid	284	C18H36O2	000057-11-4	64
5	Octadecanoic acid	284	C18H36O2	000057-11-4	58





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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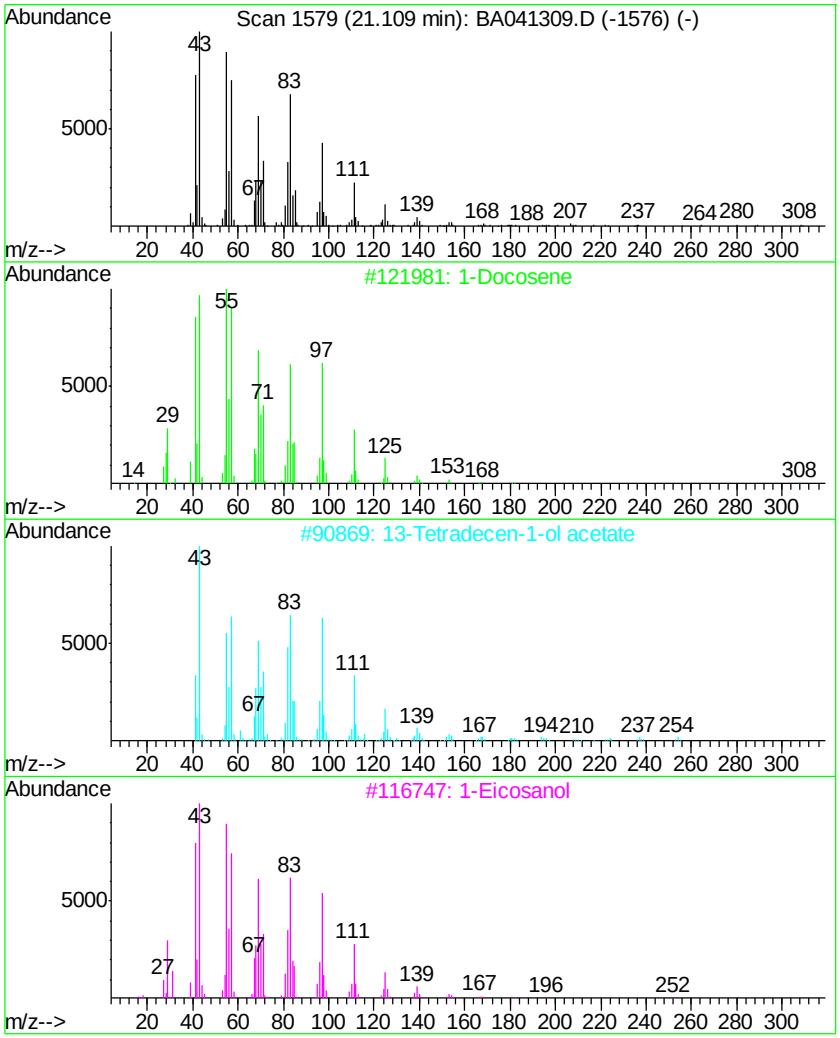
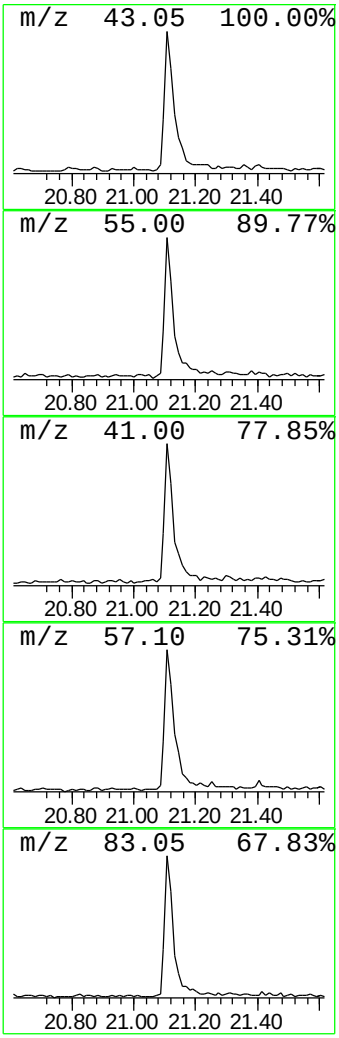
Peak Number 9 1-Docosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.11	16.28 ng/ul	1762840	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	99
2	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	91
3	1-Eicosanol	298	C20H42O	000629-96-9	90
4	Trifluoroacetic acid, n-octadecy...	366	C20H37F3O2	079392-43-1	83
5	Pentafluoropropionic acid, undec...	318	C14H23F5O2	1000283-04-0	80





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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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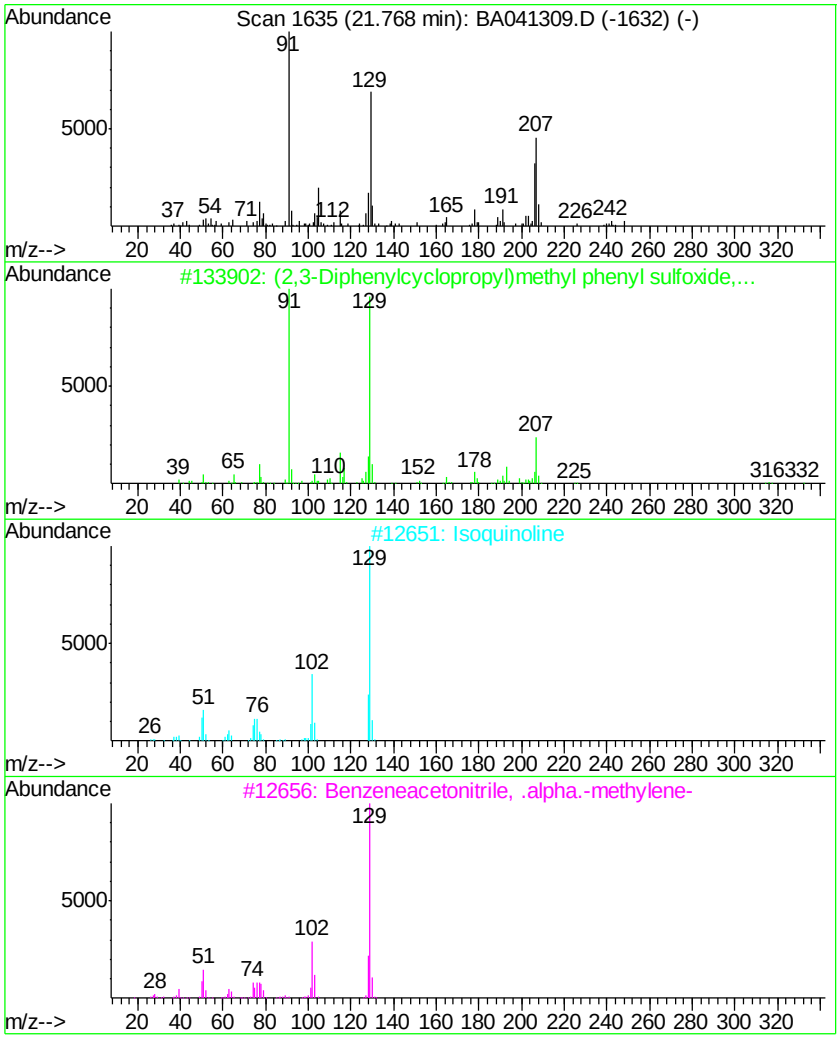
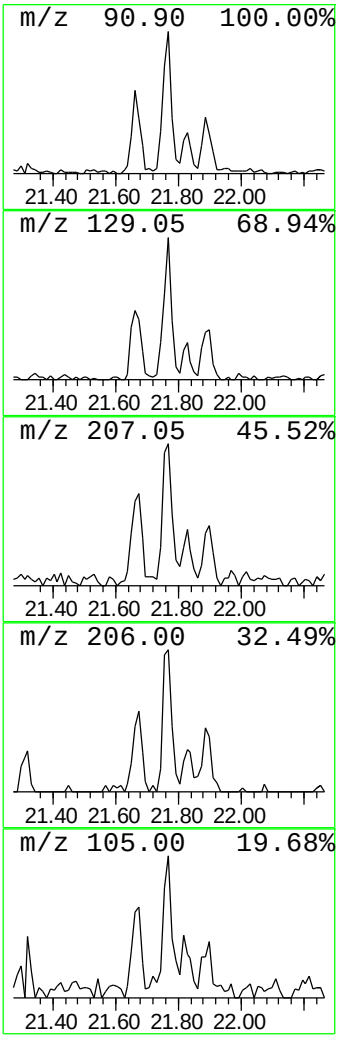
Peak Number 10 (2,3-Diphenylcyclopropyl)me... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.77	2.46 ng/ul	266446	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(2,3-Diphenylcyclopropyl)methyl ...	332	C22H20OS	131758-71-9	50
2	Isoquinoline	129	C9H7N	000119-65-3	22
3	Benzeneacetonitrile, .alpha.-met...	129	C9H7N	000495-10-3	22
4	2-Propenenitrile, 3-phenyl-, (E)-	129	C9H7N	001885-38-7	22
5	Isoquinoline	129	C9H7N	000119-65-3	22





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Sample : Z4920-07
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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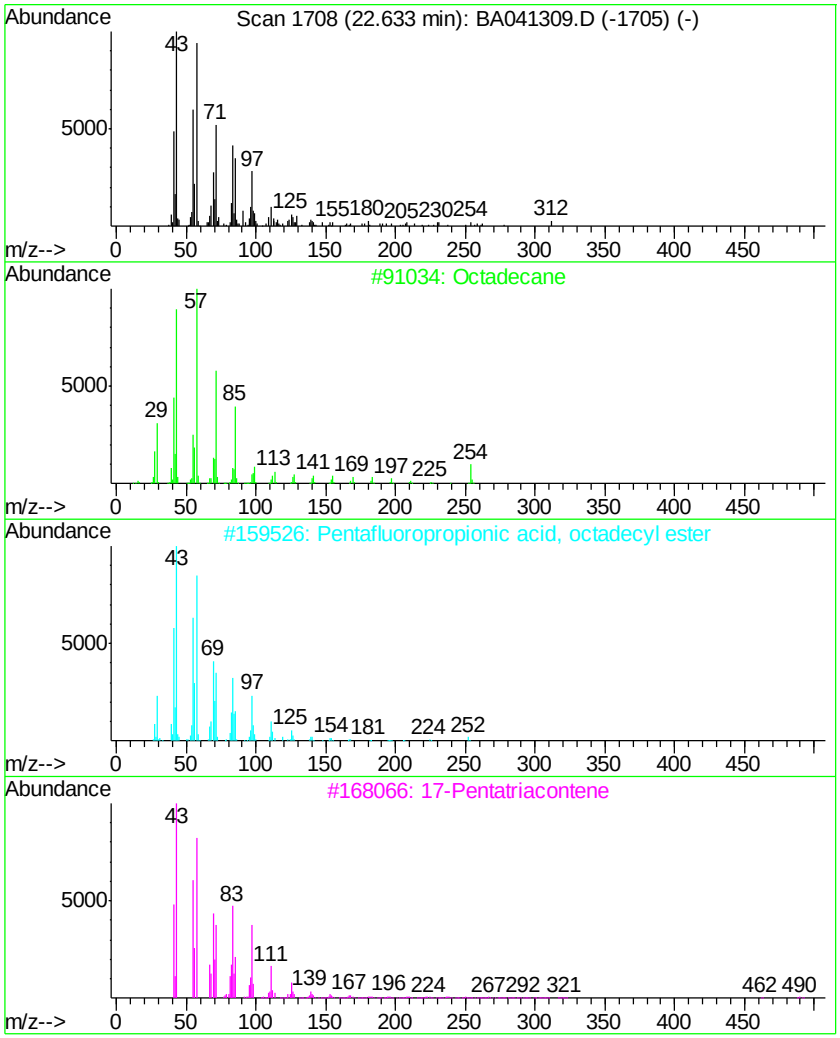
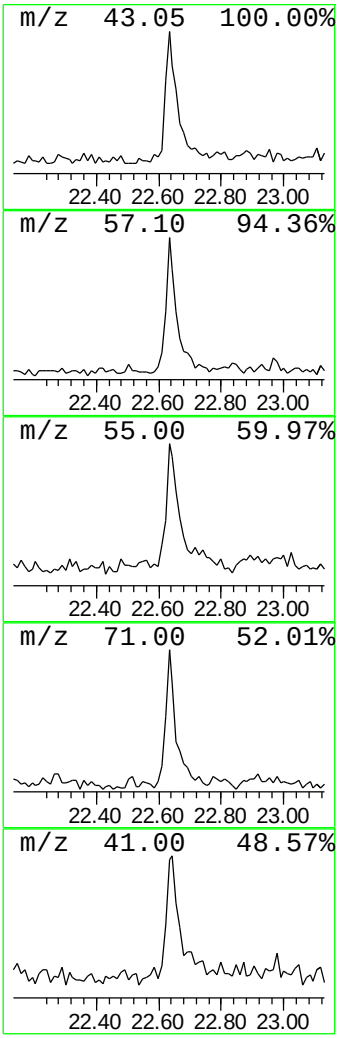
Peak Number 11 Octadecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.63	5.66 ng/ul	612450	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	70
2	Pentafluoropropionic acid, octad...	416	C21H37F5O2	1000280-07-7	58
3	17-Pentatriacontene	491	C35H70	006971-40-0	49
4	Heptadecane, 8-methyl-	254	C18H38	013287-23-5	46
5	Tetradecane	198	C14H30	000629-59-4	46





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Sample : Z4920-07
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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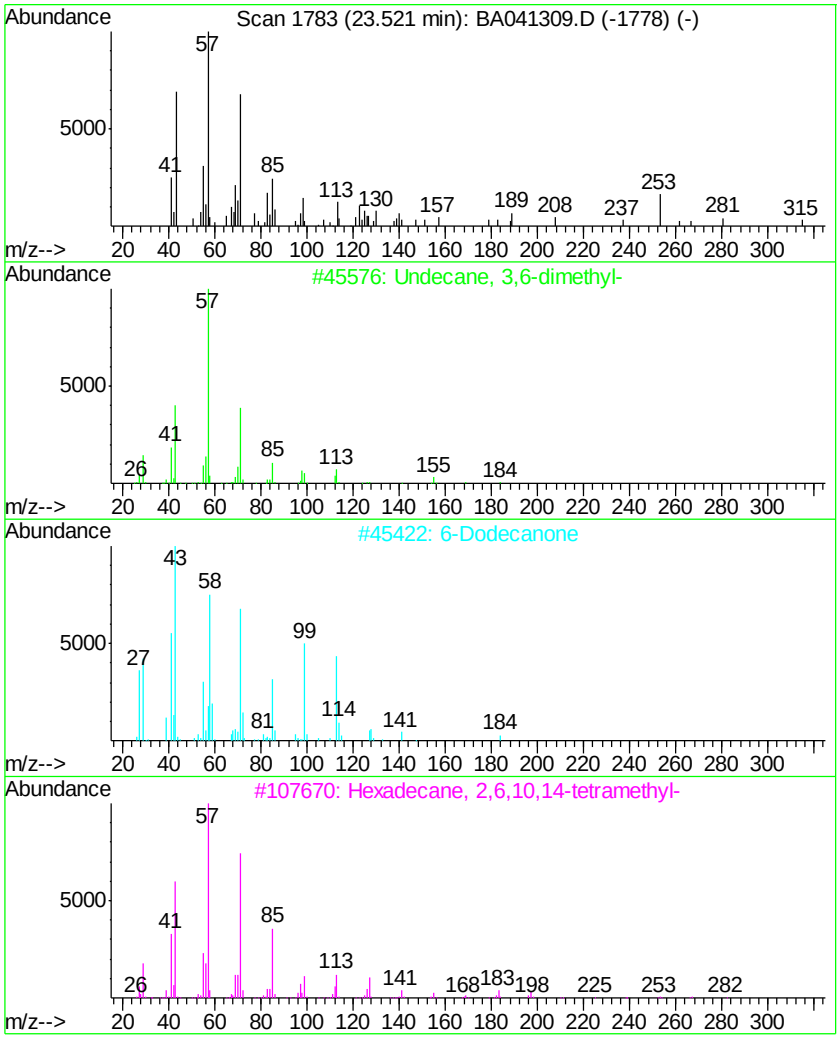
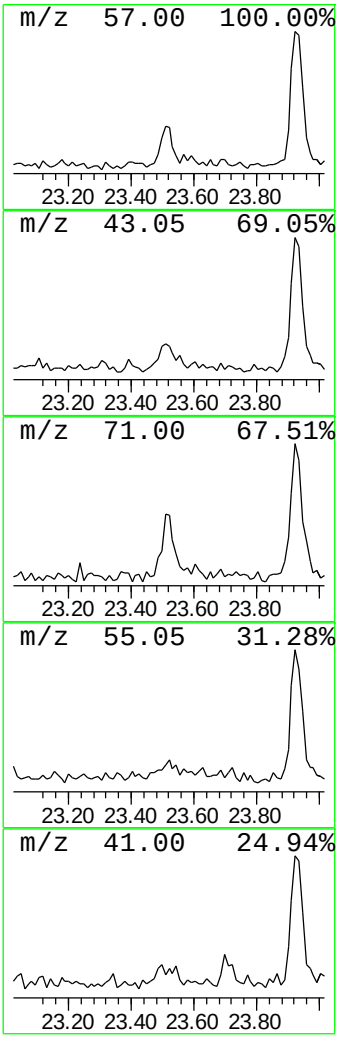
Peak Number 12 unknown23.52 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.52	2.04 ng/ul	155338	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	47
2	6-Dodecanone	184	C12H24O	006064-27-3	47
3	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	43
4	Hexadecane, 7-methyl-	240	C17H36	026730-20-1	43
5	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	43





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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Peak Number 13 1-Hexacosanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.60	69.17 ng/ul	5258170	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosanol	382	C26H54O	000506-52-5	74
2	1-Docosene	308	C22H44	001599-67-3	68
3	10-Heneicosene (c,t)	294	C21H42	095008-11-0	64
4	9-Hexacosene	364	C26H52	071502-22-2	64
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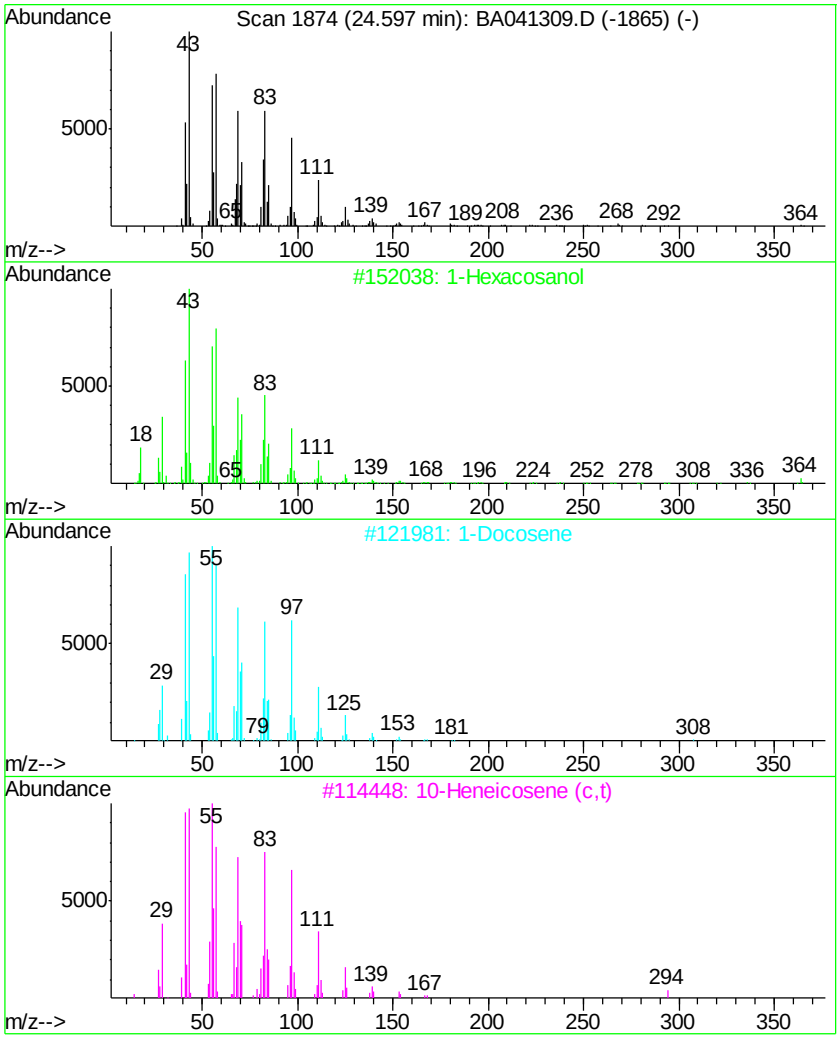

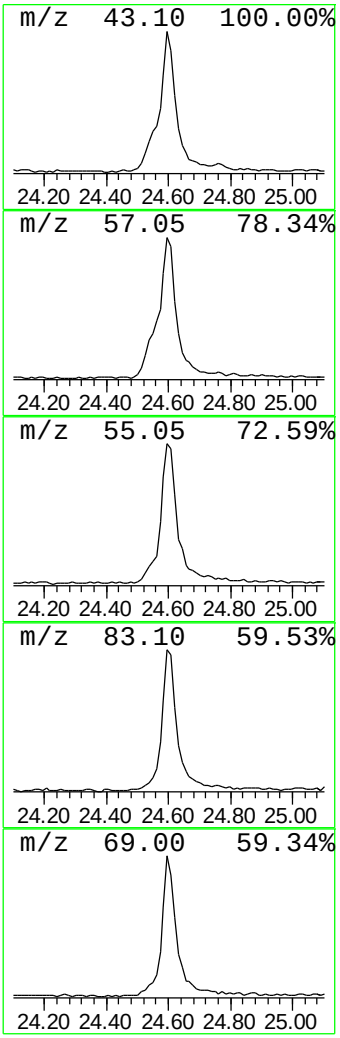

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Acq On : 20 Oct 2008 4:17
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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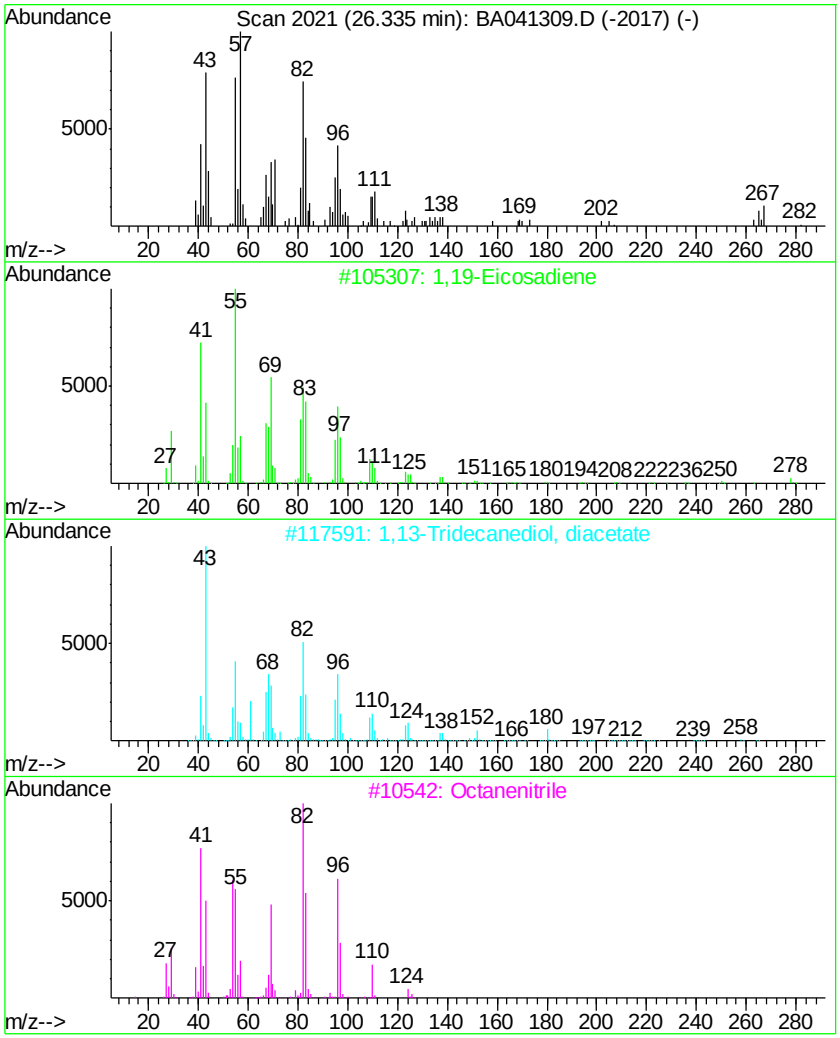
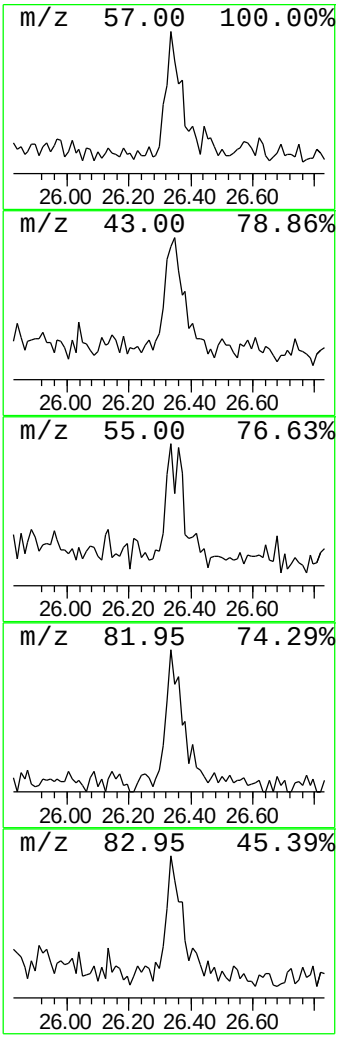
Peak Number 14 1,19-Eicosadiene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.33	4.35 ng/ul	330868	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	72
2	1,13-Tridecanediol, diacetate	300	C17H32O4	042236-70-4	64
3	Octanenitrile	125	C8H15N	000124-12-9	59
4	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	53
5	Decane, 2-cyclohexyl-	224	C16H32	013151-73-0	43





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Sample : Z4920-07
Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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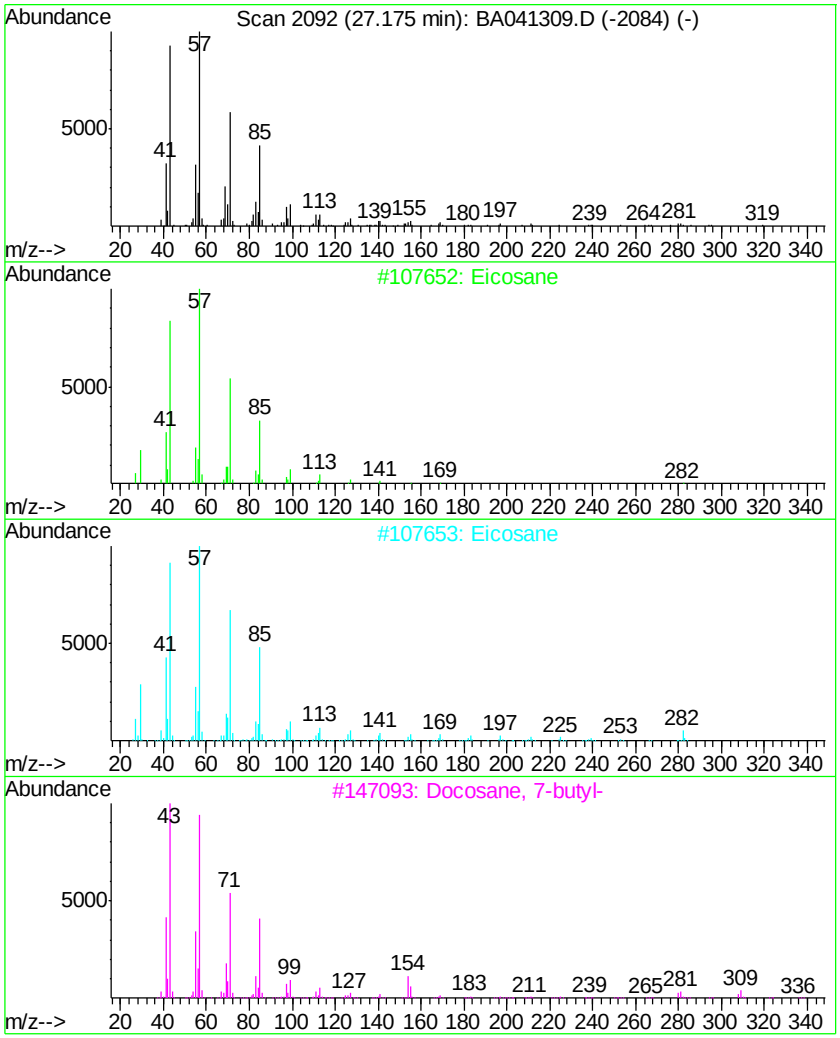
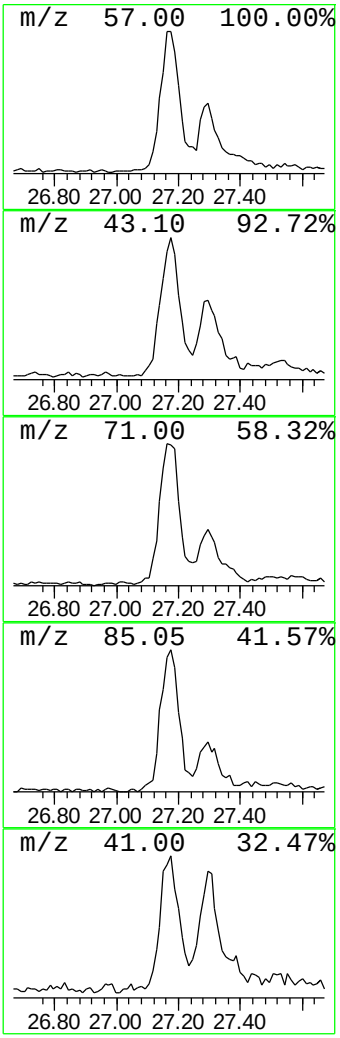
Peak Number 15 Eicosane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.17	20.96 ng/ul	1593150	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	95
2	Eicosane	282	C20H42	000112-95-8	94
3	Docosane, 7-butyl-	366	C26H54	055282-15-0	87
4	Heptadecane	240	C17H36	000629-78-7	87
5	Eicosane	282	C20H42	000112-95-8	87





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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Peak Number 16 1-Docosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.29	19.62 ng/ul	1491170	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosanol	326	C22H46O	000661-19-8	87
2	17-Pentatriacontene	491	C35H70	006971-40-0	81
3	9-Eicosene, (E)-	280	C20H40	074685-29-3	76
4	3-Eicosene, (E)-	280	C20H40	074685-33-9	74
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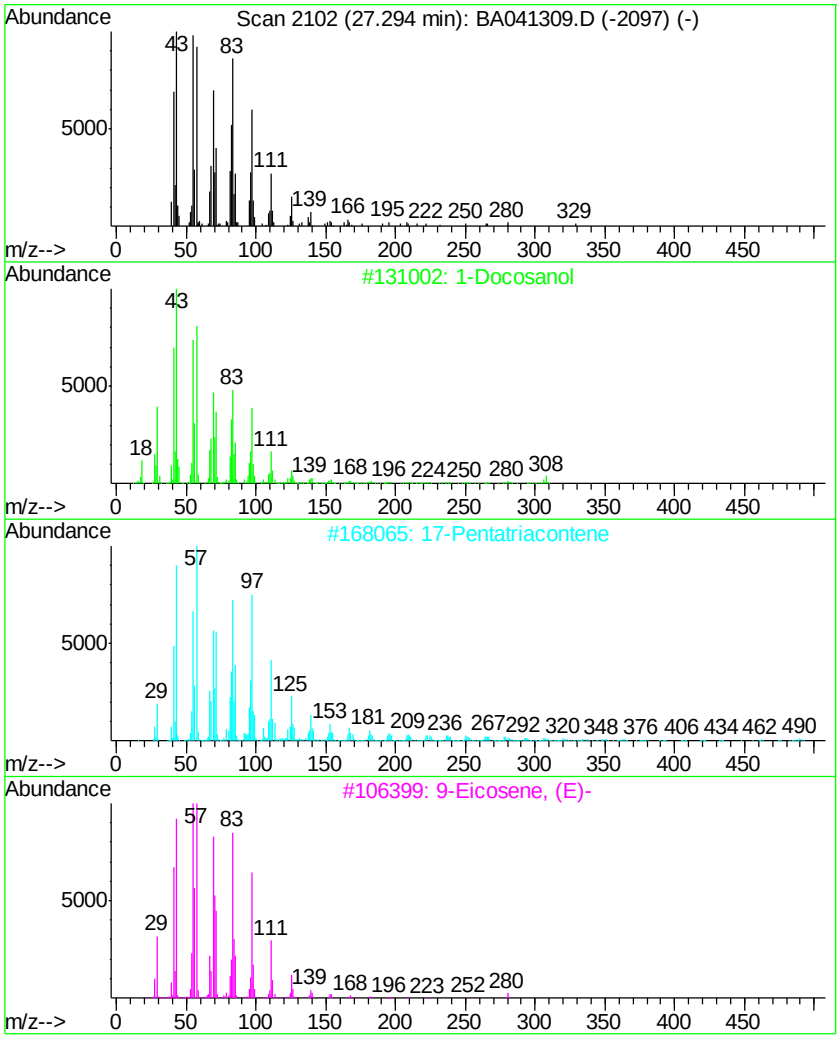

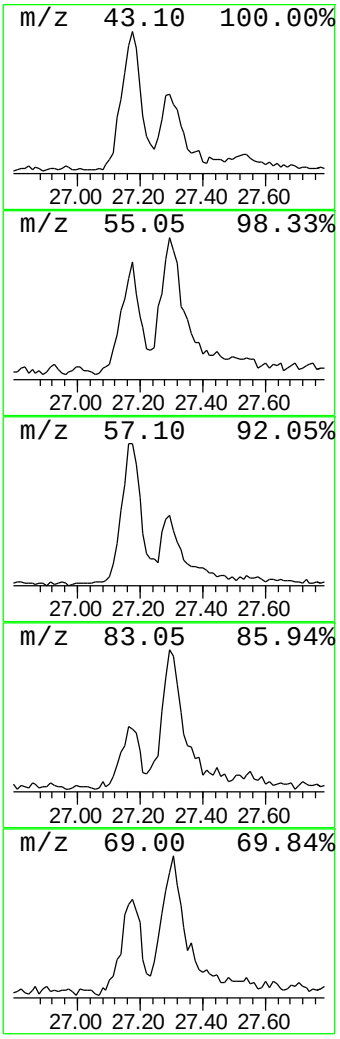

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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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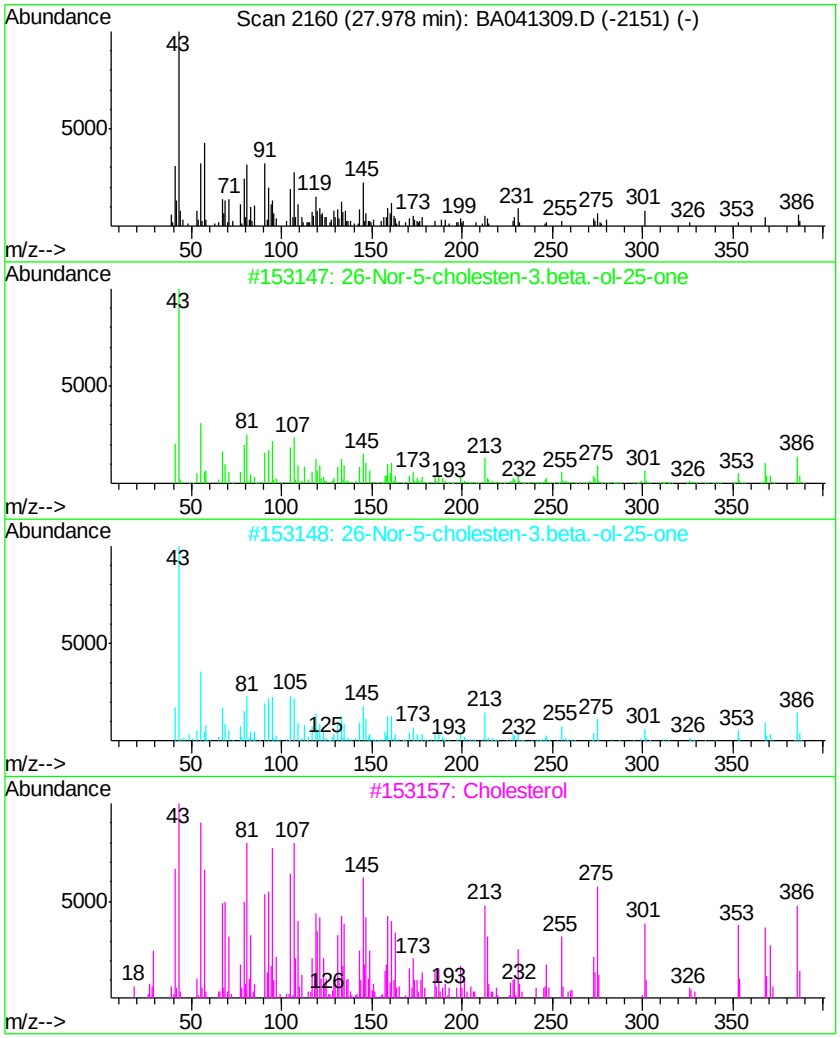
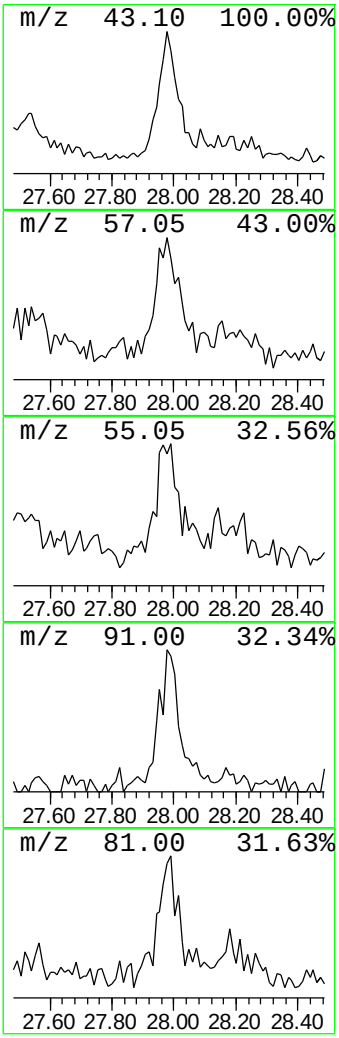
Peak Number 17 26-Nor-5-cholesten-3.beta.-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.98	11.30 ng/ul	859004	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	26-Nor-5-cholesten-3.beta.-ol-25...	386	C26H42O2	007494-34-0	90
2	26-Nor-5-cholesten-3.beta.-ol-25...	386	C26H42O2	007494-34-0	70
3	Cholesterol	386	C27H46O	000057-88-5	60
4	26-Nor-5-cholesten-3.beta.-ol-25...	386	C26H42O2	007494-34-0	50
5	Allopregnane-3.beta.,7.alpha.-di...	334	C21H34O3	000566-20-1	38





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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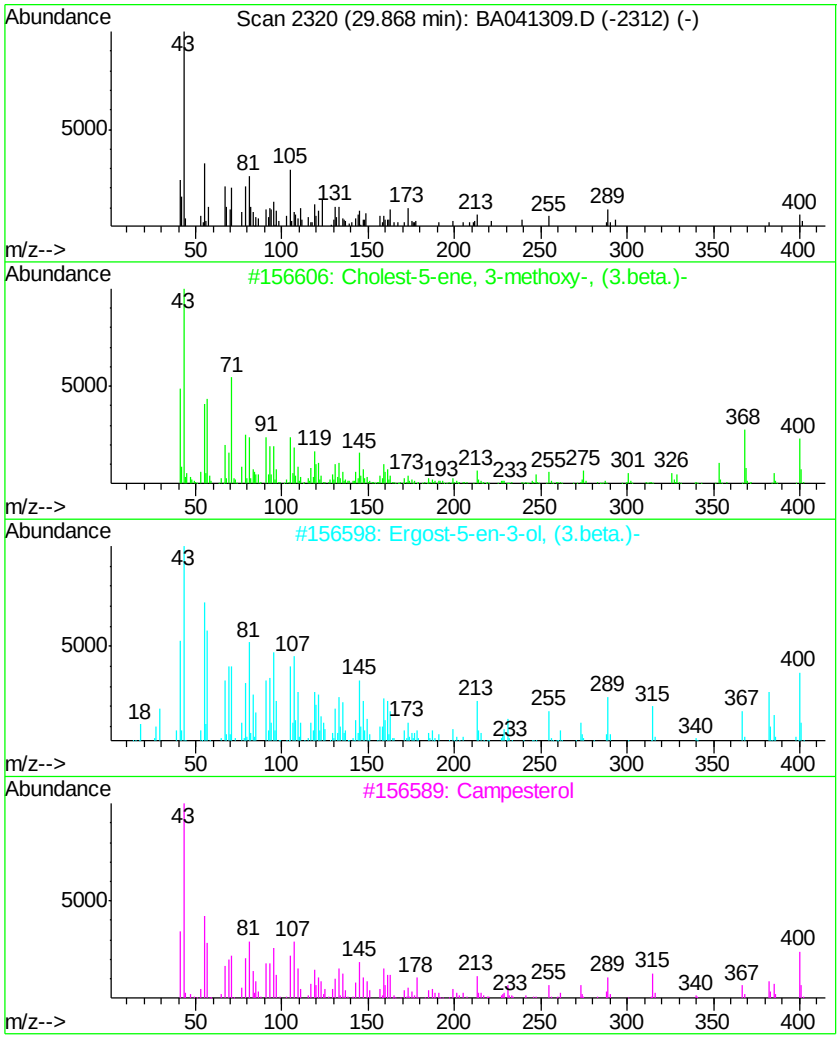
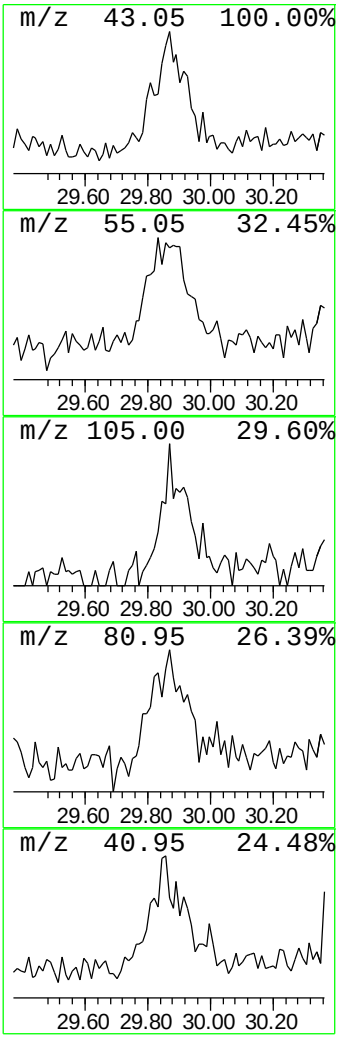
Peak Number 18 unknown29.87 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.87	4.12 ng/ul	313334	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholest-5-ene, 3-methoxy-, (3.be...	400	C28H48O	001174-92-1	35
2	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	25
3	Campesterol	400	C28H48O	000474-62-4	25
4	Mestanolone	304	C20H32O2	000521-11-9	22
5	Mestanolone	304	C20H32O2	000521-11-9	12





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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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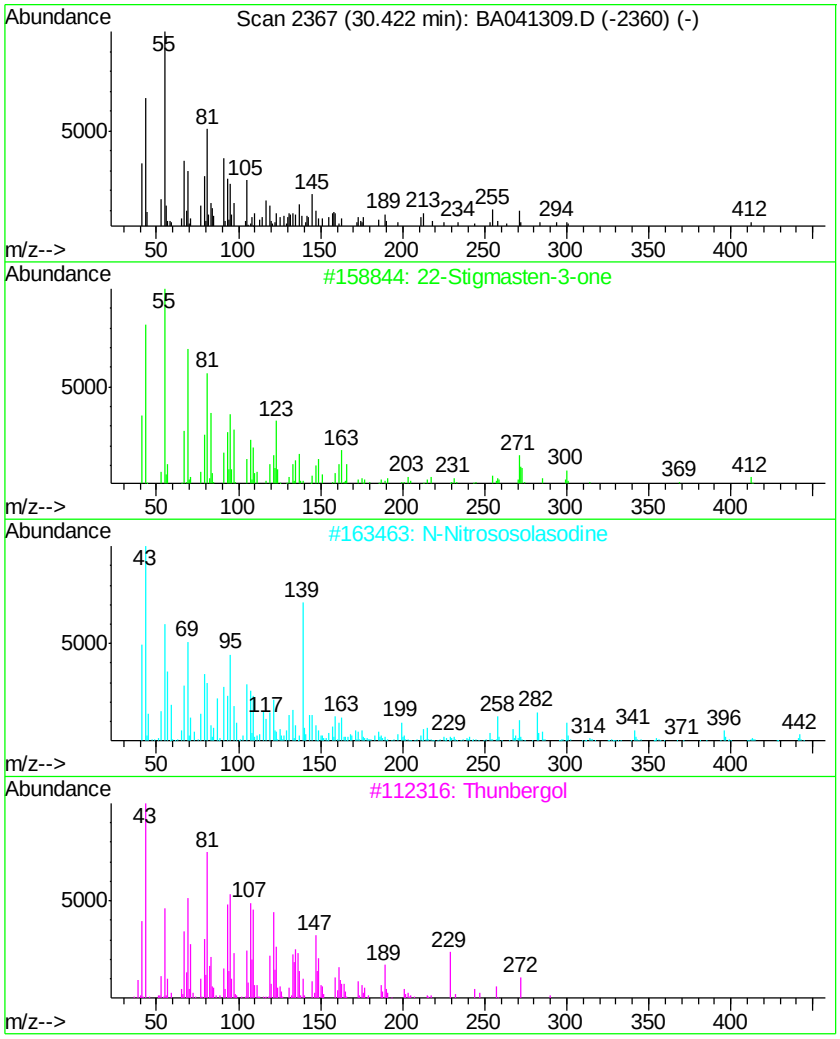
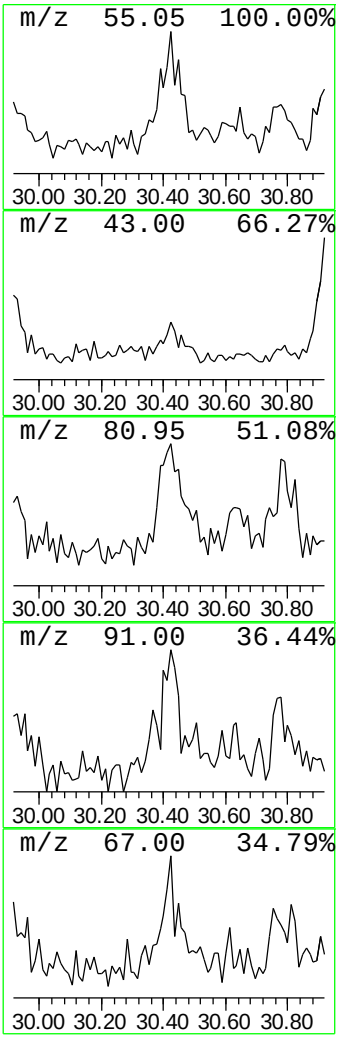
Peak Number 19 22-Stigmasten-3-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.42	4.47 ng/ul	340166	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	22-Stigmasten-3-one	412	C29H48O	004736-95-2	50
2	N-Nitrososolasodine	442	C27H42N2O3	004860-12-2	32
3	Thunbergol	290	C20H34O	025269-17-4	25
4	(3E,5E,7E)-6-Methyl-8-(2,6,6-tri...	258	C18H26O	017974-57-1	15
5	Pregnane-3,11,20-triol, (3.alpha...	336	C21H36O3	010417-85-3	14





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

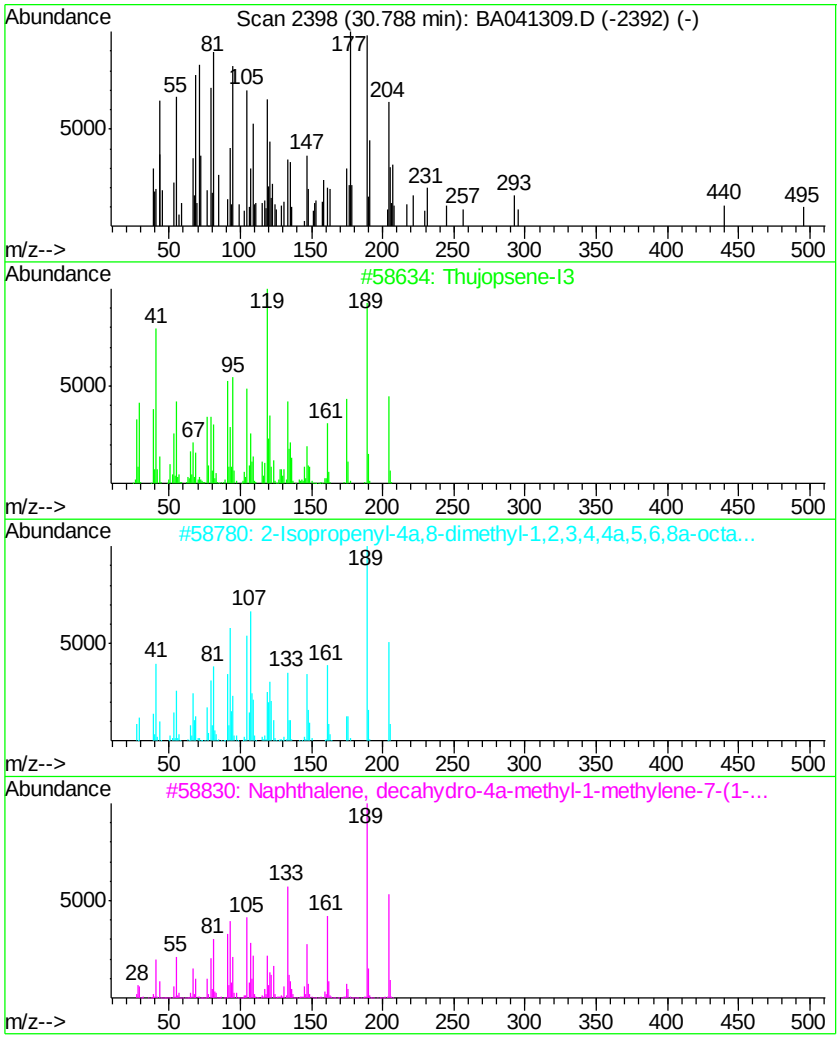
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

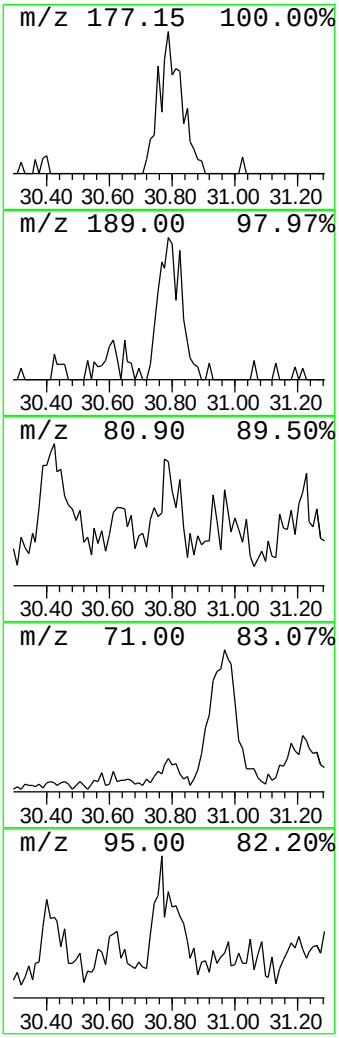
****

Peak Number 20 Thujopsene-I3 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.79	3.94 ng/ul	299491	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thujopsene-I3	204	C15H24	1000162-77-8	87
2	2-Isopropenyl-4a,8-dimethyl-1,2,...	204	C15H24	1000193-57-0	25
3	Naphthalene, decahydro-4a-methyl...	204	C15H24	000515-17-3	25
4	Aciphyllene	204	C15H24	087745-31-1	25
5	Naphthalene, decahydro-1,6-bis(m...	204	C15H24	030021-46-6	25





Library Search Compound Report

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Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

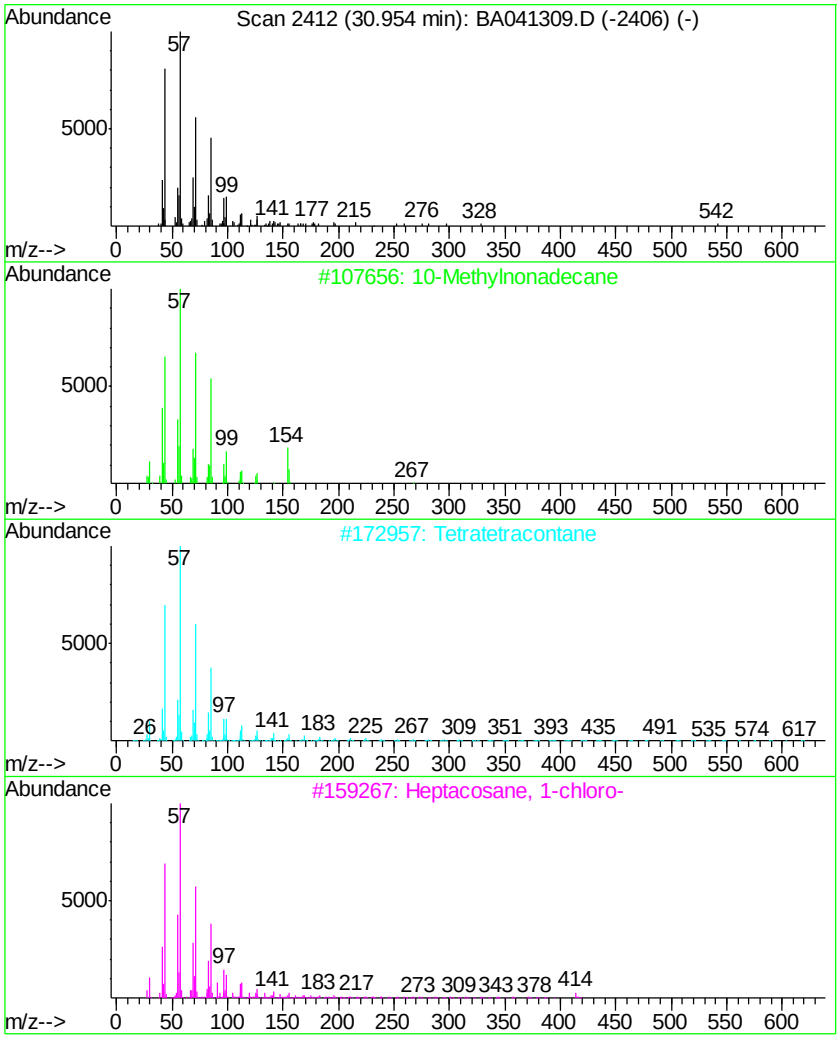
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

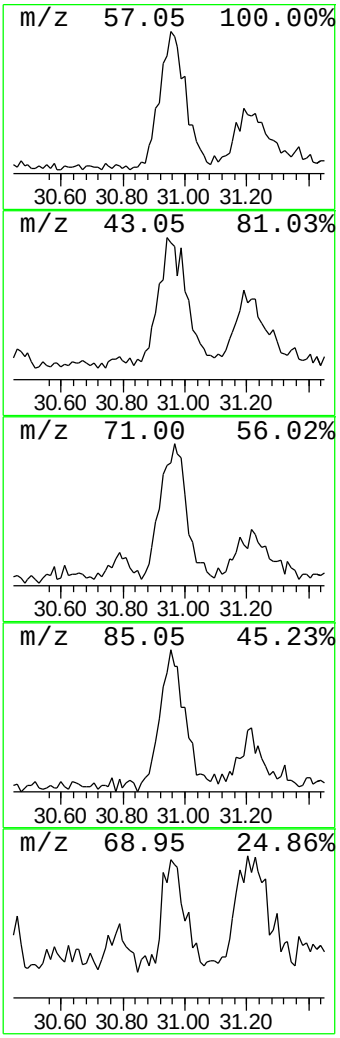
****

Peak Number 21 10-Methylnonadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.95	10.45 ng/ul	794152	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Methylnonadecane	282	C20H42	056862-62-5	87
2	Tetratetracontane	619	C44H90	007098-22-8	86
3	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	86
4	Heptacosane	380	C27H56	000593-49-7	86
5	Octacosane	394	C28H58	000630-02-4	86





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

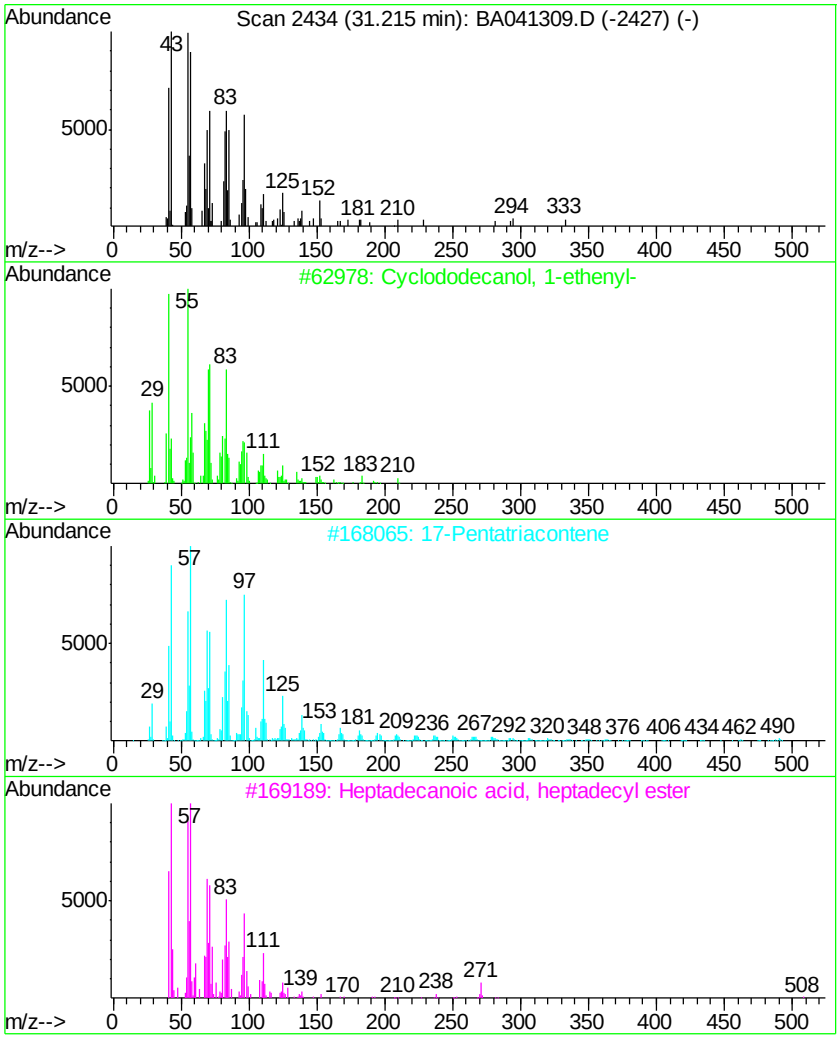
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

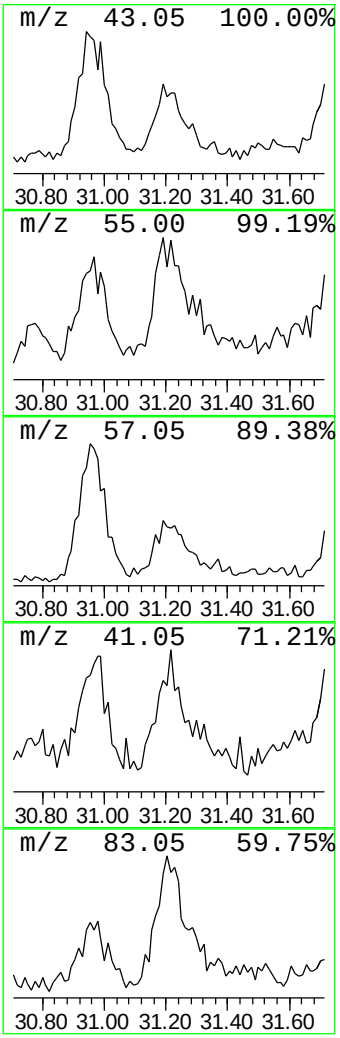
****

Peak Number 22 Cyclododecanol, 1-ethenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.21	10.15 ng/ul	771501	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclododecanol, 1-ethenyl-	210	C14H26O	006244-49-1	83
2	17-Pentatriacontene	491	C35H70	006971-40-0	68
3	Heptadecanoic acid, heptadecyl e...	509	C34H68O2	036617-50-2	64
4	3-Heptadecenal	252	C17H32O	1000143-48-7	64
5	1-Docosanol	326	C22H46O	000661-19-8	52





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On    : 20 Oct 2008   4:17
Operator  : QM
Sample    : Z4920-07
Misc      :
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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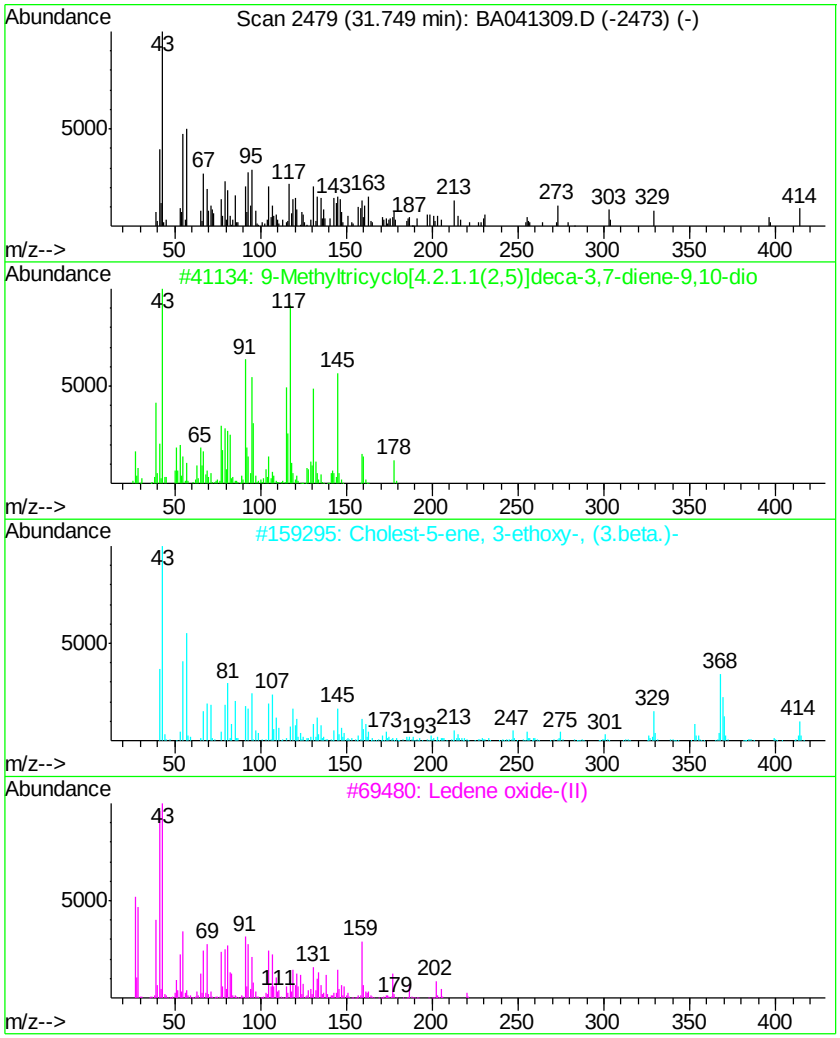
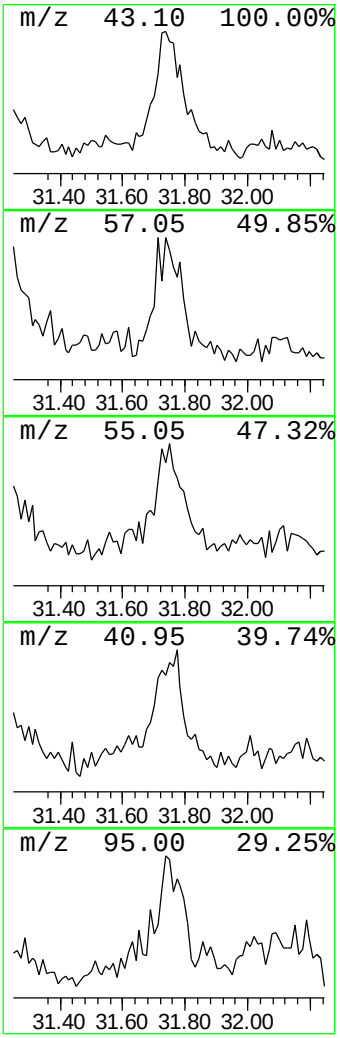
Peak Number 23 unknown31.75 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.75	14.86 ng/ul	1129310	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Methyltricyclo[4.2.1.1(2,5)]de...	178	C11H14O2	078323-73-6	22
2	Cholest-5-ene, 3-ethoxy-, (3.bet...	414	C29H50O	000986-19-6	11
3	Ledene oxide-(II)	220	C15H24O	1000159-36-7	10
4	Stigmastan-3-en-6-ol	414	C29H50O	1000214-19-7	10
5	Retinol, acetate	328	C22H32O2	000127-47-9	9





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

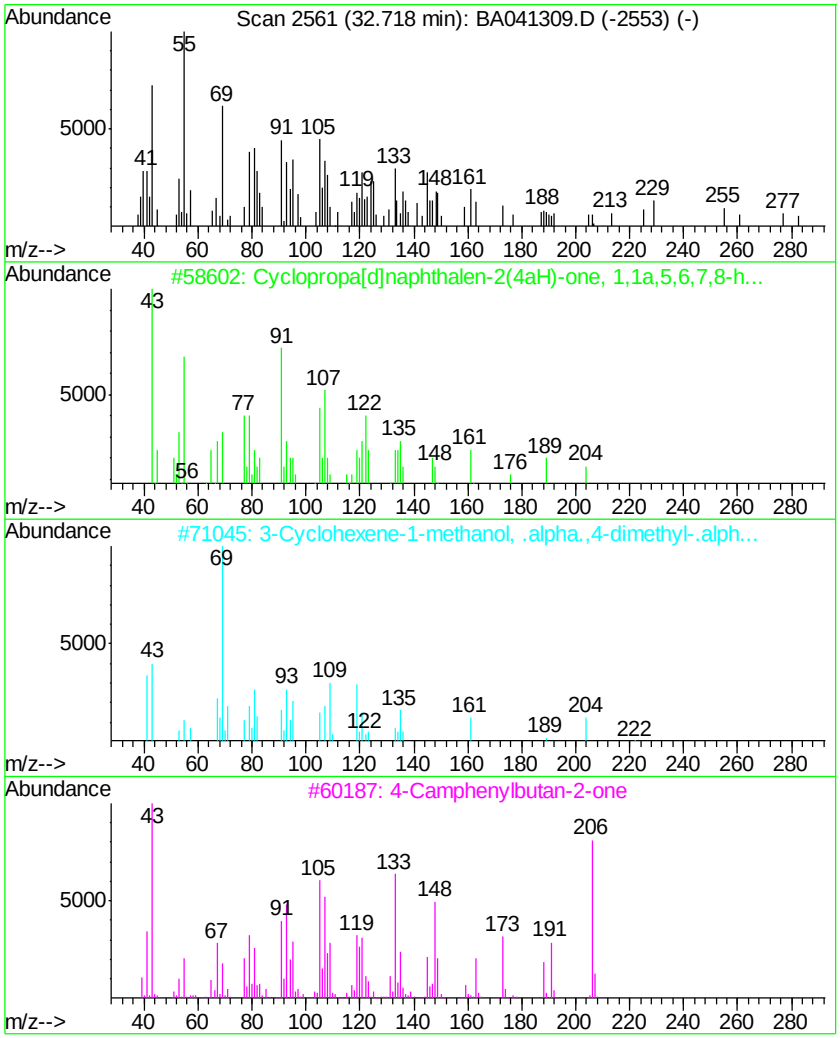
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

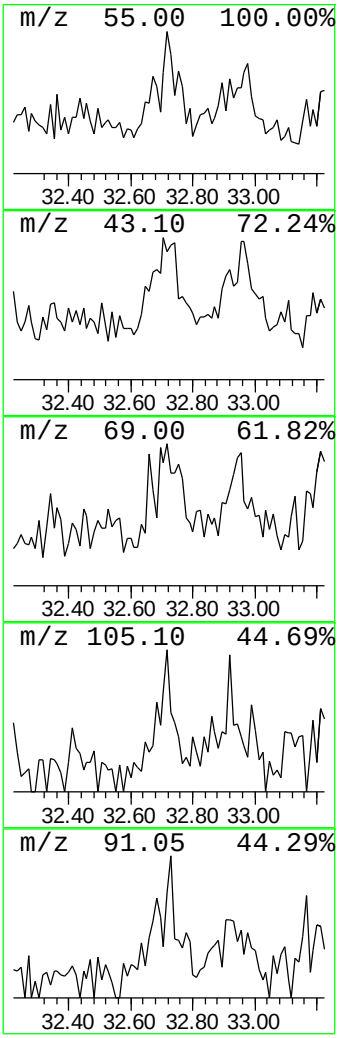
****

Peak Number 24 unknown32.72 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
32.72	4.30 ng/ul	326568	Perylene-d12	25.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropa[d]naphthalen-2(4aH)-o...	204	C14H20O	004677-90-1	41
2	3-Cyclohexene-1-methanol, .alpha...	222	C15H26O	023178-88-3	35
3	4-Camphenylbutan-2-one	206	C14H22O	1000140-09-7	30
4	2,6,10-Dodecatrien-1-ol, 3,7,11-...	264	C17H28O2	004128-17-0	25
5	(-)-Globulol	222	C15H26O	000489-41-8	16





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041309.D
Acq On : 20 Oct 2008 4:17
Operator : QM
Sample : Z4920-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
unknown3.07	3.07	4.7	ng/ul	409766	1	6.70	1735490	20.0
1-Pentene, 3,3-di...	3.53	5.5	ng/ul	480120	1	6.70	1735490	20.0
unknown3.92	3.92	5.0	ng/ul	437894	1	6.70	1735490	20.0
unknown16.88	16.88	2.4	ng/ul	301239	4	15.77	2465350	20.0
9-Hexadecenoic acid	16.95	5.4	ng/ul	665752	4	15.77	2465350	20.0
n-Hexadecanoic acid	17.04	16.1	ng/ul	1981720	4	15.77	2465350	20.0
1,3-Propanedione,...	18.21	2.2	ng/ul	271454	4	15.77	2465350	20.0
Octadecanoic acid	18.67	2.6	ng/ul	278275	5	21.31	2165660	20.0
1-Docosene	21.11	16.3	ng/ul	1762840	5	21.31	2165660	20.0
(2,3-Diphenylcycl...	21.77	2.5	ng/ul	266446	5	21.31	2165660	20.0
Octadecane	22.63	5.7	ng/ul	612450	5	21.31	2165660	20.0
unknown23.52	23.52	2.0	ng/ul	155338	6	25.15	1520410	20.0
1-Hexacosanol	24.60	69.2	ng/ul	5258170	6	25.15	1520410	20.0
1,19-Eicosadiene	26.33	4.3	ng/ul	330868	6	25.15	1520410	20.0
Eicosane	27.17	21.0	ng/ul	1593150	6	25.15	1520410	20.0
1-Docosanol	27.29	19.6	ng/ul	1491170	6	25.15	1520410	20.0
26-Nor-5-choleste...	27.98	11.3	ng/ul	859004	6	25.15	1520410	20.0
unknown29.87	29.87	4.1	ng/ul	313334	6	25.15	1520410	20.0
22-Stigmasten-3-one	30.42	4.5	ng/ul	340166	6	25.15	1520410	20.0
Thujopsene-I3	30.79	3.9	ng/ul	299491	6	25.15	1520410	20.0
10-Methylnonadecane	30.95	10.4	ng/ul	794152	6	25.15	1520410	20.0
Cyclododecanol, 1...	31.21	10.2	ng/ul	771501	6	25.15	1520410	20.0
unknown31.75	31.75	14.9	ng/ul	1129310	6	25.15	1520410	20.0
unknown32.72	32.72	4.3	ng/ul	326568	6	25.15	1520410	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-3

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-08

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041312.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.17 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	24	J
108-95-2	Phenol	39	J
111-44-4	Bis(2-chloroethyl)ether	110	U
95-57-8	2-Chlorophenol	110	U
95-48-7	2-Methylphenol	110	U
108-60-1	2,2'-Oxybis(1-chloropropane)	110	U
98-86-2	Acetophenone	160	
106-44-5	4-Methylphenol	110	U
621-64-7	N-Nitroso-di-n-propylamine	110	U
67-72-1	Hexachloroethane	110	U
98-95-3	Nitrobenzene	110	U
78-59-1	Isophorone	110	U
88-75-5	2-Nitrophenol	110	U
105-67-9	2,4-Dimethylphenol	110	U
111-91-1	Bis(2-chloroethoxy)methane	110	U
120-83-2	2,4-Dichlorophenol	110	U
91-20-3	Naphthalene	110	U
106-47-8	4-Chloroaniline	110	U
87-68-3	Hexachlorobutadiene	110	U
105-60-2	Caprolactam	110	U
59-50-7	4-Chloro-3-methylphenol	110	U
91-57-6	2-Methylnaphthalene	110	U
77-47-4	Hexachlorocyclopentadiene	110	U
88-06-2	2,4,6-Trichlorophenol	110	U
95-95-4	2,4,5-Trichlorophenol	110	U
92-52-4	1,1'-Biphenyl	110	U
91-58-7	2-Chloronaphthalene	110	U
88-74-4	2-Nitroaniline	210	U
131-11-3	Dimethylphthalate	110	U
606-20-2	2,6-Dinitrotoluene	110	U
208-96-8	Acenaphthylene	110	U
99-09-2	3-Nitroaniline	210	U
83-32-9	Acenaphthene	41	J
51-28-5	2,4-Dinitrophenol	210	U
100-02-7	4-Nitrophenol	210	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-3

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-08

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041312.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.17 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	17	J
121-14-2	2,4-Dinitrotoluene	110	U
84-66-2	Diethylphthalate	110	U
86-73-7	Fluorene	39	J
7005-72-3	4-Chlorophenyl-phenylether	110	U
100-01-6	4-Nitroaniline	210	U
534-52-1	4,6-Dinitro-2-methylphenol	210	U
86-30-6	N-Nitrosodiphenylamine[1]	110	U
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U
101-55-3	4-Bromophenyl-phenylether	110	U
118-74-1	Hexachlorobenzene	110	U
1912-24-9	Atrazine	110	U
87-86-5	Pentachlorophenol	210	U
85-01-8	Phenanthrene	330	
120-12-7	Anthracene	82	J
86-74-8	Carbazole	110	U
84-74-2	Di-n-butylphthalate	46	J
206-44-0	Fluoranthene	290	
129-00-0	Pyrene	380	
85-68-7	Butylbenzylphthalate	110	U
91-94-1	3,3'-Dichlorobenzidine	110	U
56-55-3	Benzo(a)anthracene	220	
218-01-9	Chrysene	240	
117-81-7	Bis(2-ethylhexyl)phthalate	82	JB
117-84-0	Di-n-octylphthalate	110	U
205-99-2	Benzo(b)fluoranthene	190	
207-08-9	Benzo(k)fluoranthene	86	J
50-32-8	Benzo(a)pyrene	150	
193-39-5	Indeno(1,2,3-cd)pyrene	65	J
53-70-3	Dibenzo(a,h)anthracene	25	J
191-24-2	Benzo(g,h,i)perylene	60	J
58-90-2	2,3,4,6-Tetrachlorophenol	110	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC5-3

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4920-08

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041312.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.17 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	88104-31-8	2- Chloropropionic acid, octade	21.11	350	JN
02.		unknown22.62	22.62	200	J
03.	629-78-7	Heptadecane	24.52	210	JN
04.	629-62-9	Pentadecane	27.13	200	JN
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

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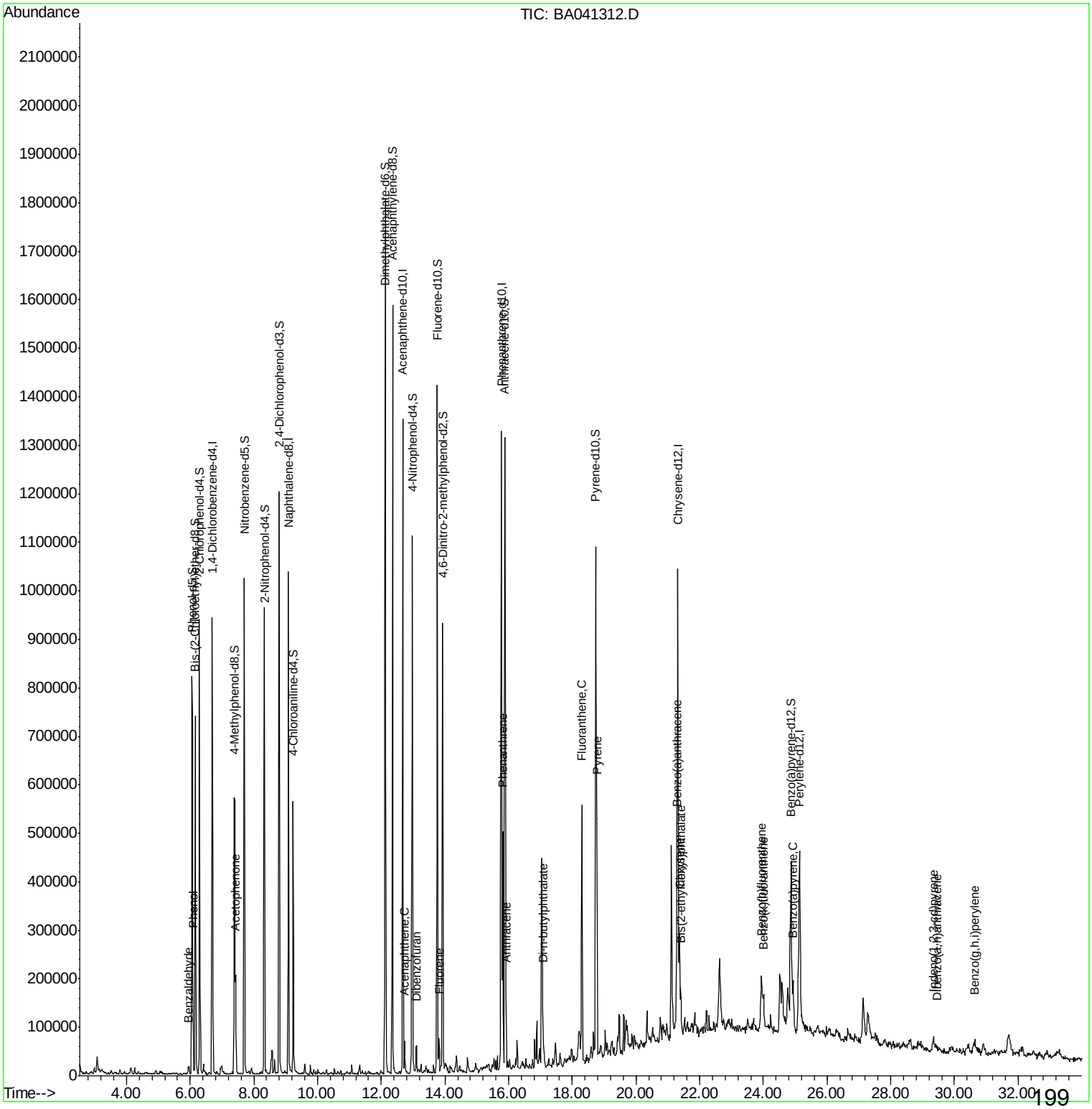
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 20 12:45:50 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

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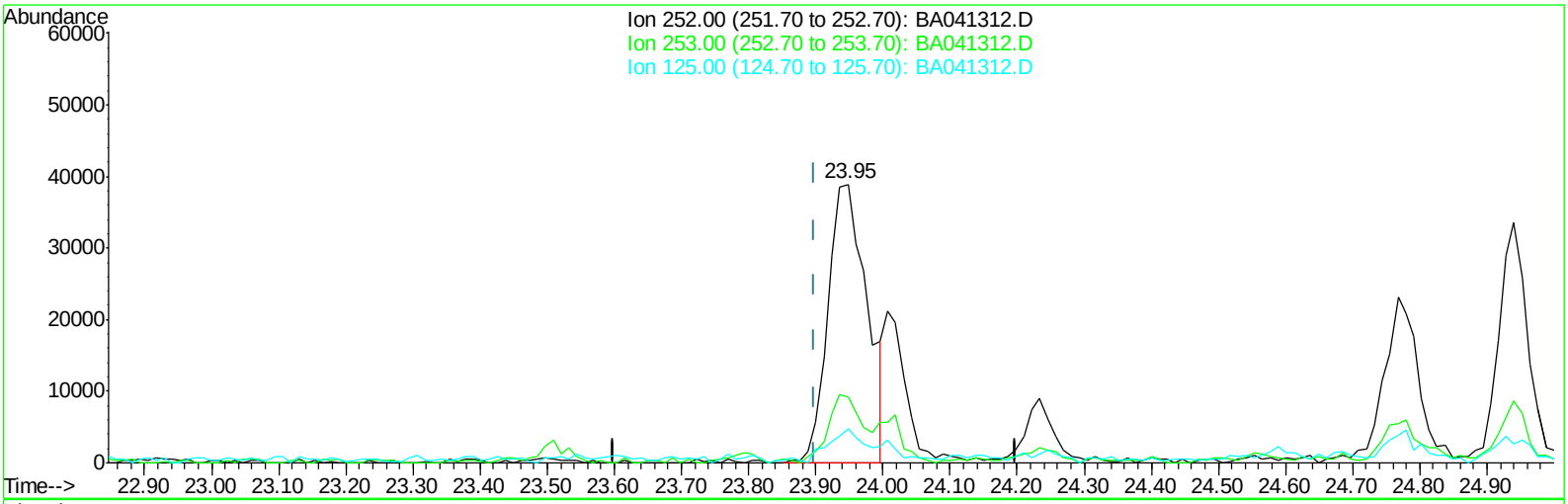
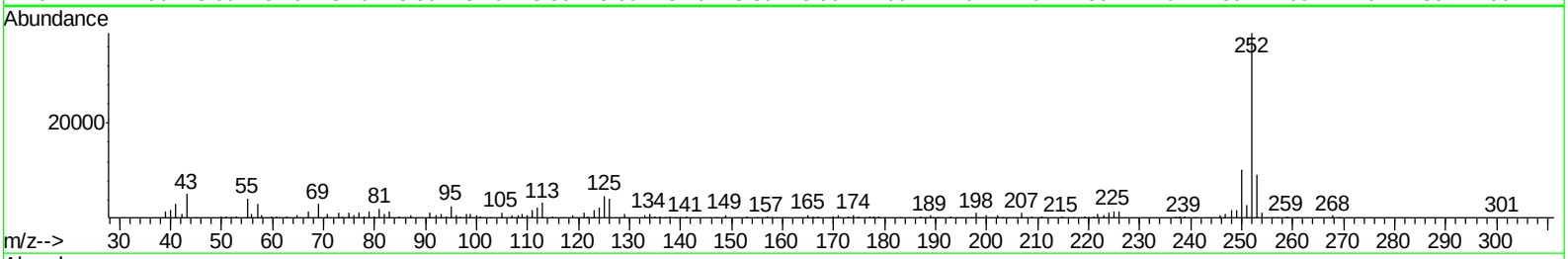
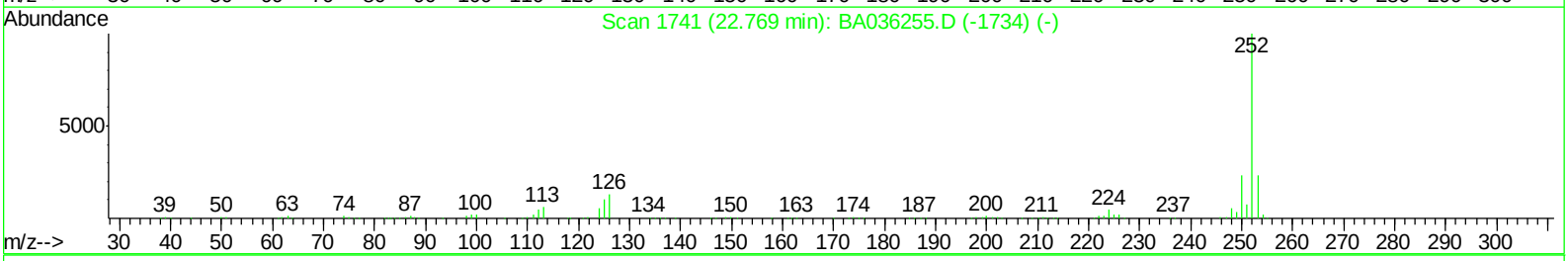
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 20 11:30:10 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041312.D

(83) Benzo(b)fluoranthene

23.948min (+0.049) 4.73ng/ul

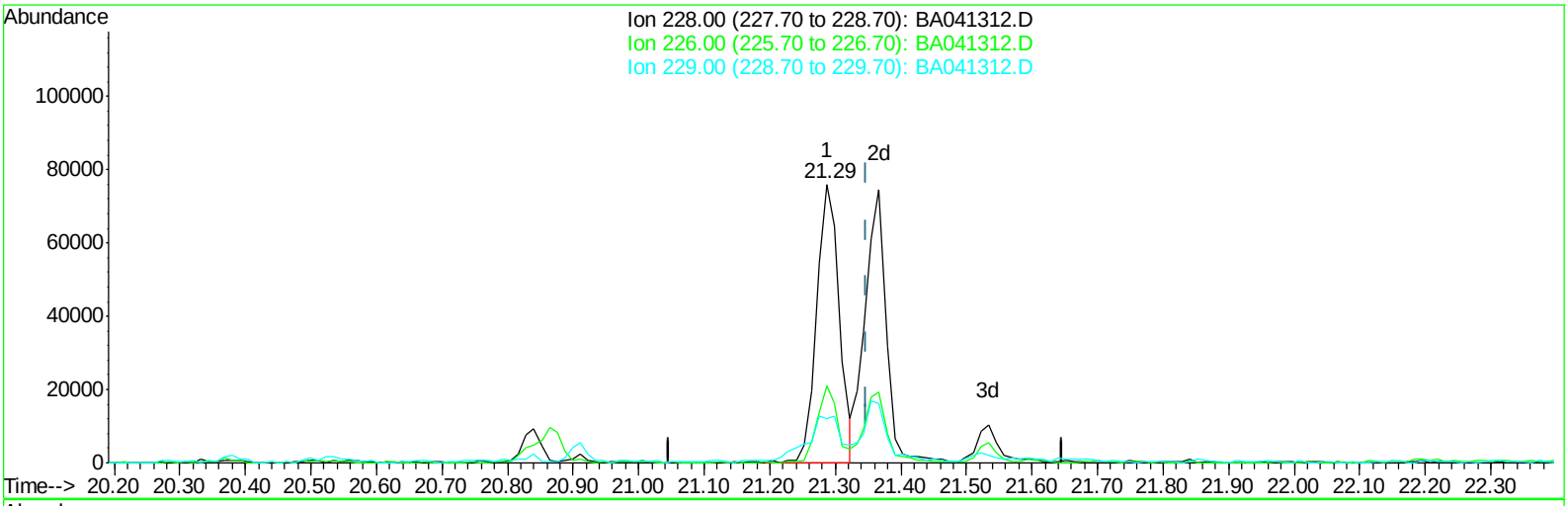
response 157787

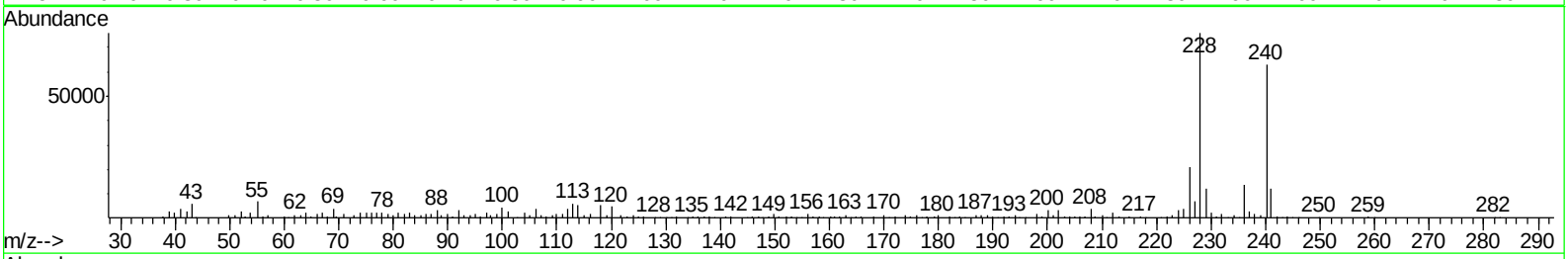
Ion	Exp%	Act%
252.00	100	100
253.00	20.20	23.71
125.00	5.10	12.34#
0.00	0.00	0.00

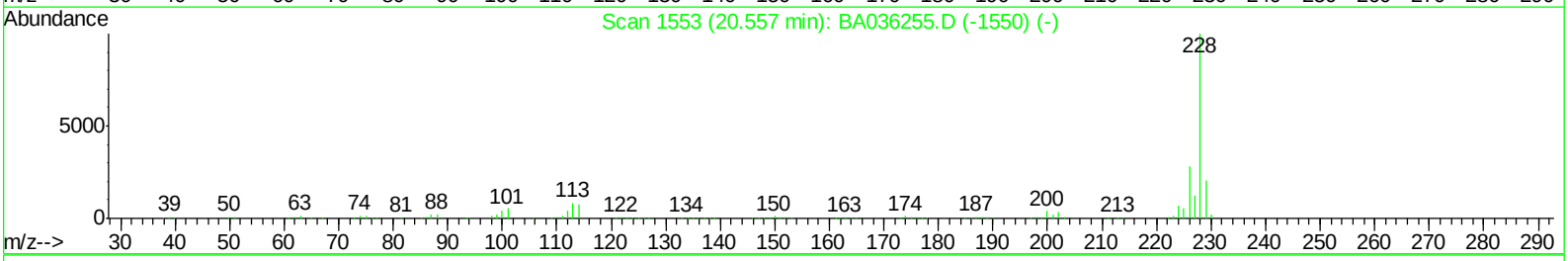
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 20 11:30:10 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041312.D

(80) Chrysene

21.287min (-0.061) 6.05ng/ul

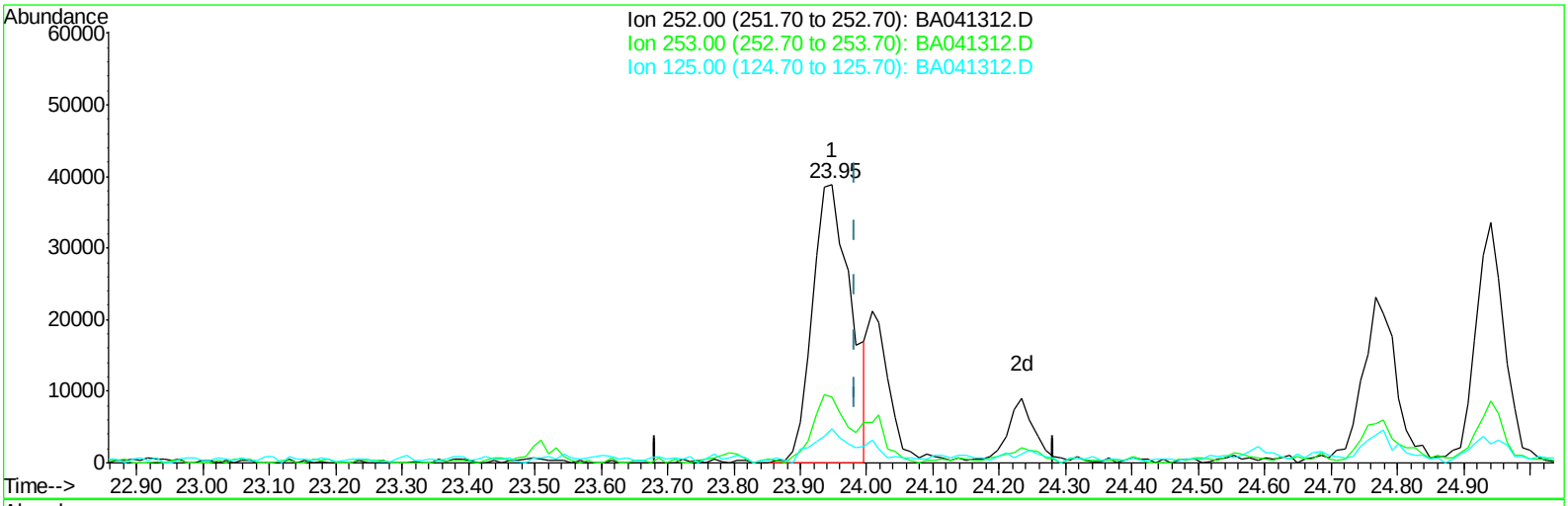
response 183496

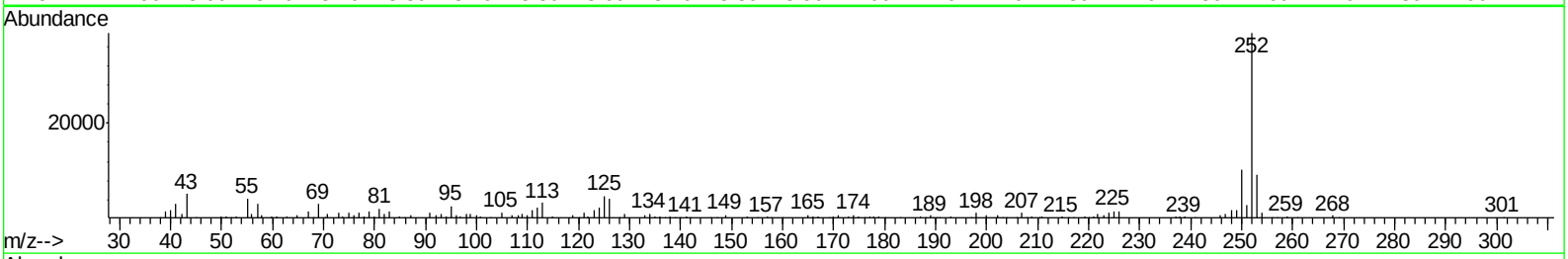
Ion	Exp%	Act%
228.00	100	100
226.00	25.80	27.96
229.00	18.00	15.98
0.00	0.00	0.00

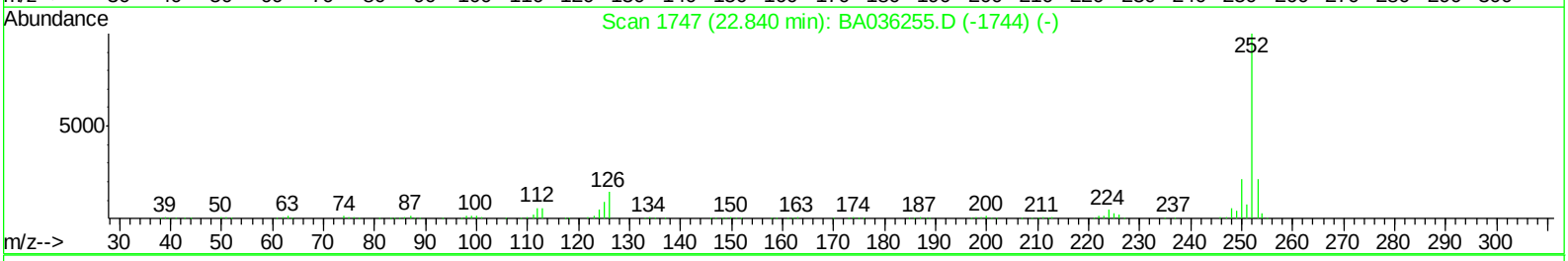
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 20 11:30:10 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







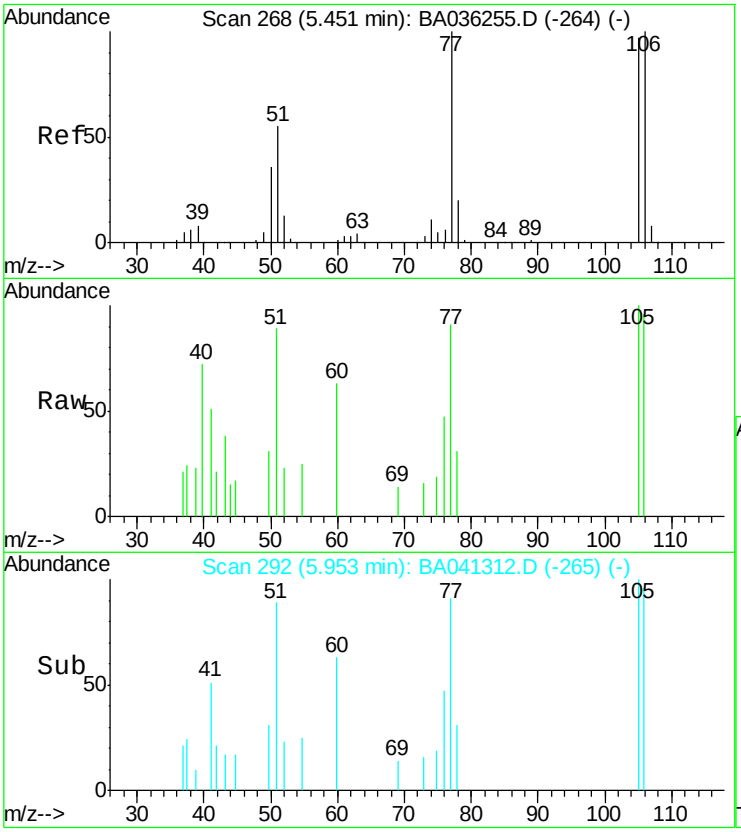
TIC: BA041312.D

(84) Benzo(k)fluoranthene

23.948min (-0.034) 5.56ng/ul

response 157787

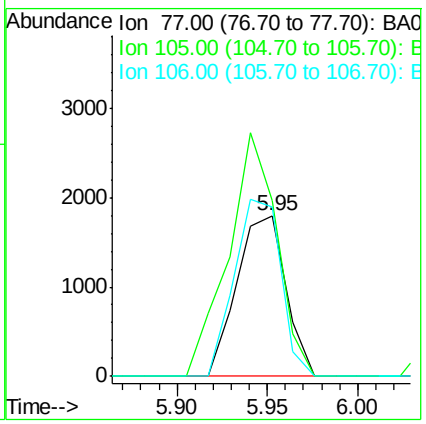
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	23.71
125.00	4.40	12.34#
0.00	0.00	0.00

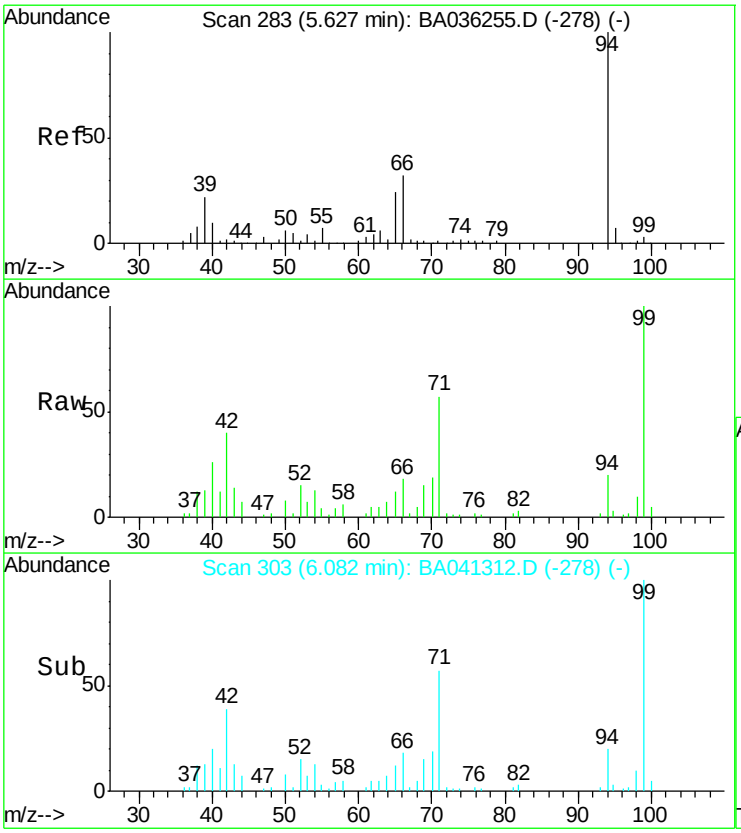


#2
Benzaldehyde
Concen: 0.56 ng/ul
RT: 5.95 min Scan# 292
Delta R.T. 0.01 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion: 77 Resp: 3416

Ion	Ratio	Lower	Upper
77	100		
105	109.5	69.6	104.4#
106	105.4	67.9	101.9#

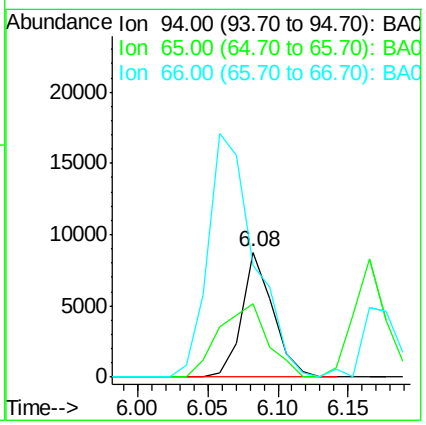


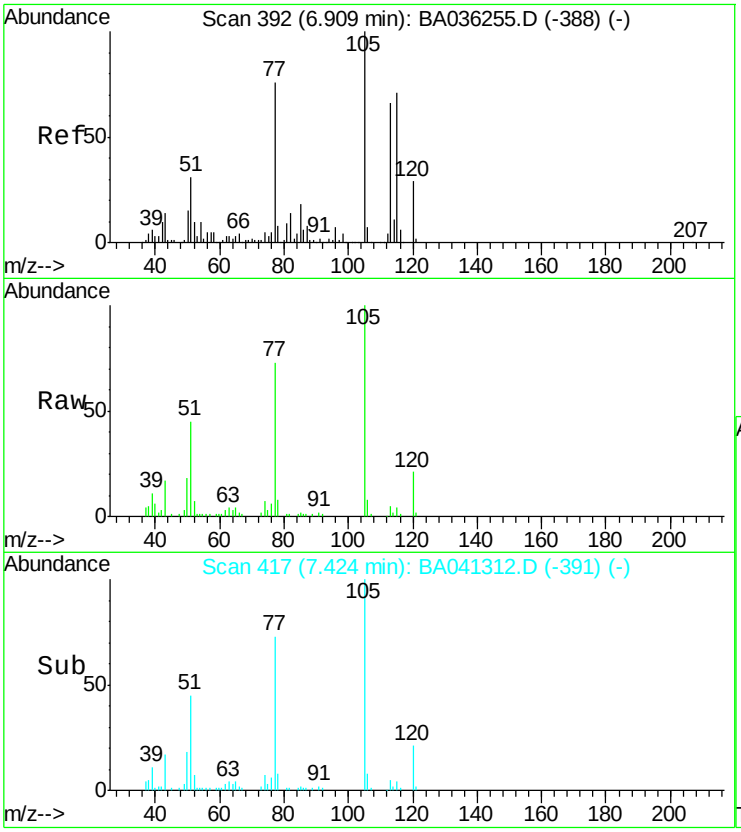


#4
Phenol
Concen: 0.91 ng/ul
RT: 6.08 min Scan# 303
Delta R.T. 0.00 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion: 94 Resp: 13470

Ion	Ratio	Lower	Upper
94	100		
65	58.3	29.0	43.6#
66	89.6	53.7	80.5#

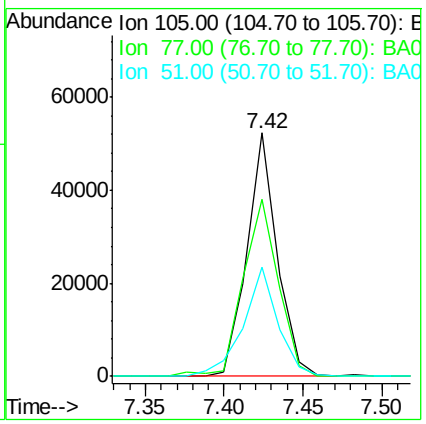


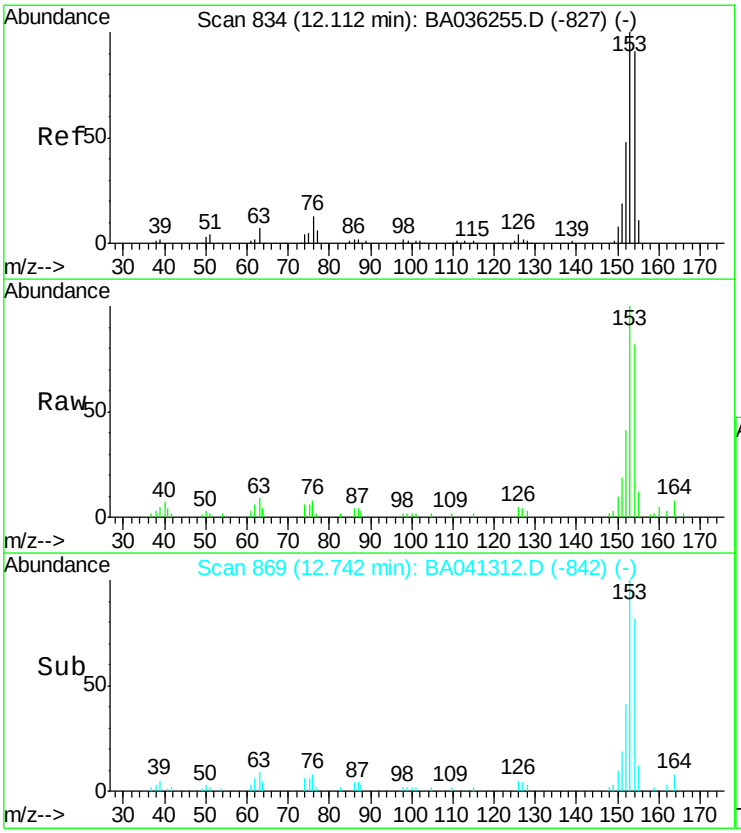


#12
Acetophenone
Concen: 3.85 ng/ul
RT: 7.42 min Scan# 417
Delta R.T. 0.00 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:105 Resp: 69457

Ion	Ratio	Lower	Upper
105	100		
77	72.9	69.4	104.2
51	44.9	42.1	63.1

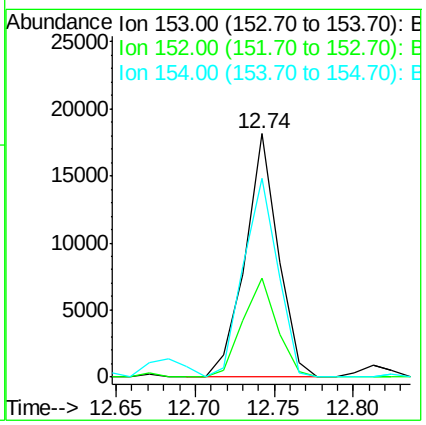


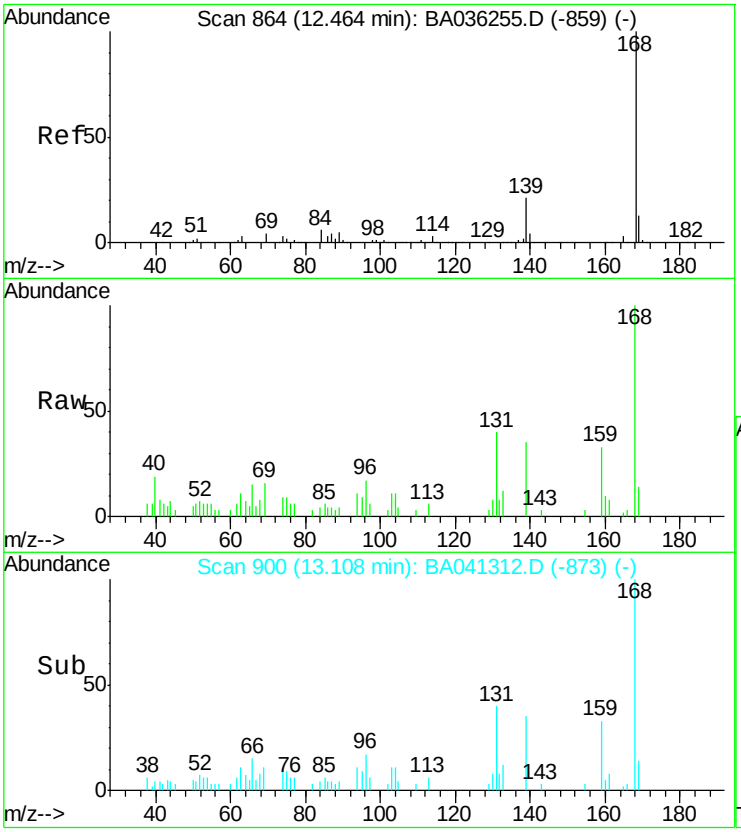


#47
Acenaphthene
Concen: 0.96 ng/ul
RT: 12.74 min Scan# 869
Delta R.T. 0.01 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:153 Resp: 26269

Ion	Ratio	Lower	Upper
153	100		
152	40.8	37.8	56.6
154	81.6	78.5	117.7

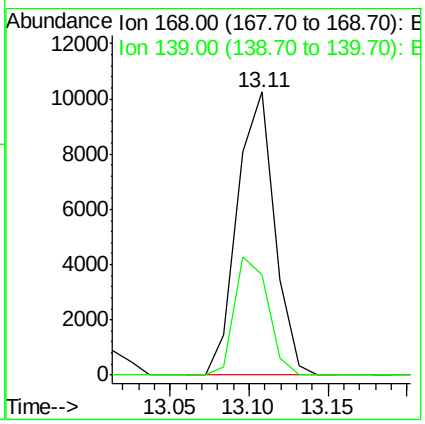


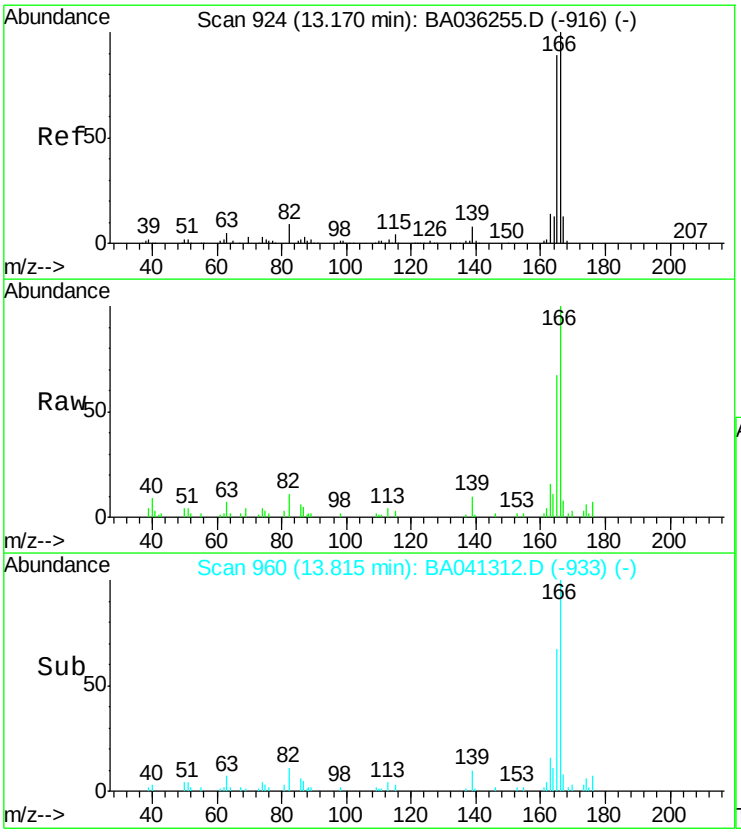


#51
Dibenzofuran
Concen: 0.41 ng/ul
RT: 13.11 min Scan# 900
Delta R.T. 0.01 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:168 Resp: 16710

Ion	Ratio	Lower	Upper
168	100		
139	35.3	33.4	50.2

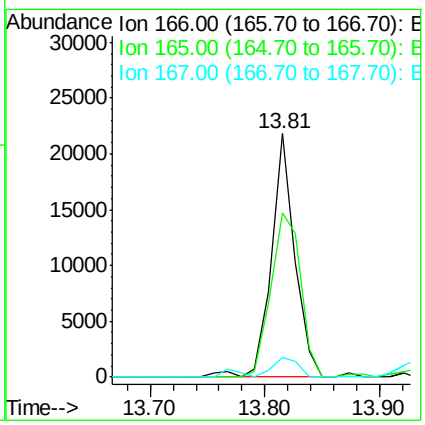


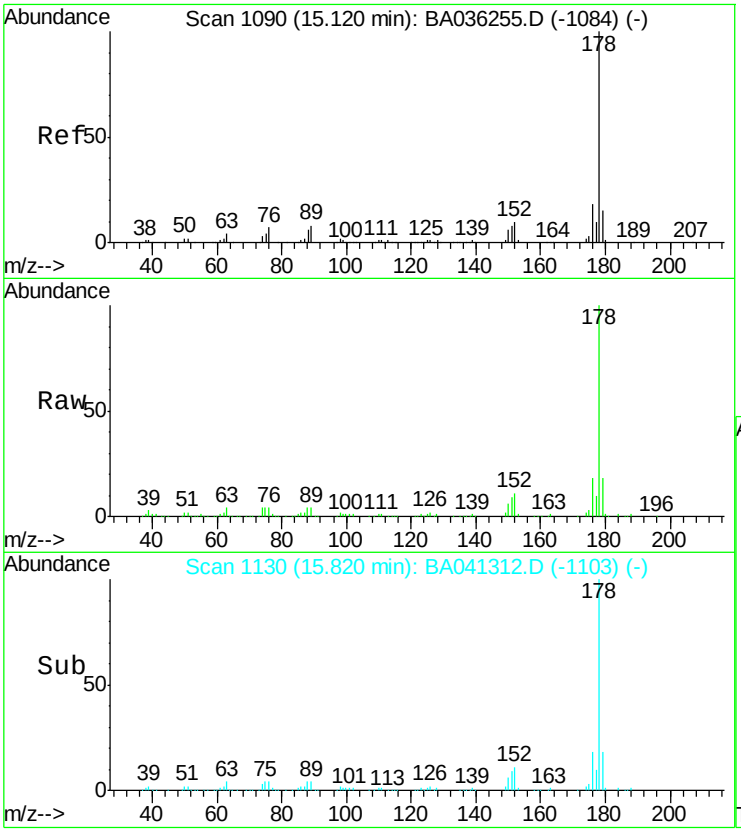


#56
Fluorene
Concen: 0.92 ng/ul
RT: 13.81 min Scan# 960
Delta R.T. 0.01 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:166 Resp: 30982

Ion	Ratio	Lower	Upper
166	100		
165	67.5	72.3	108.5#
167	8.0	11.5	17.3#

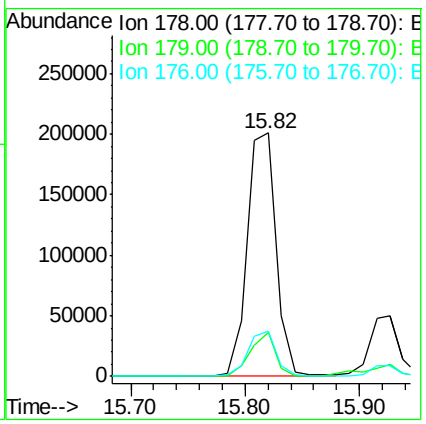


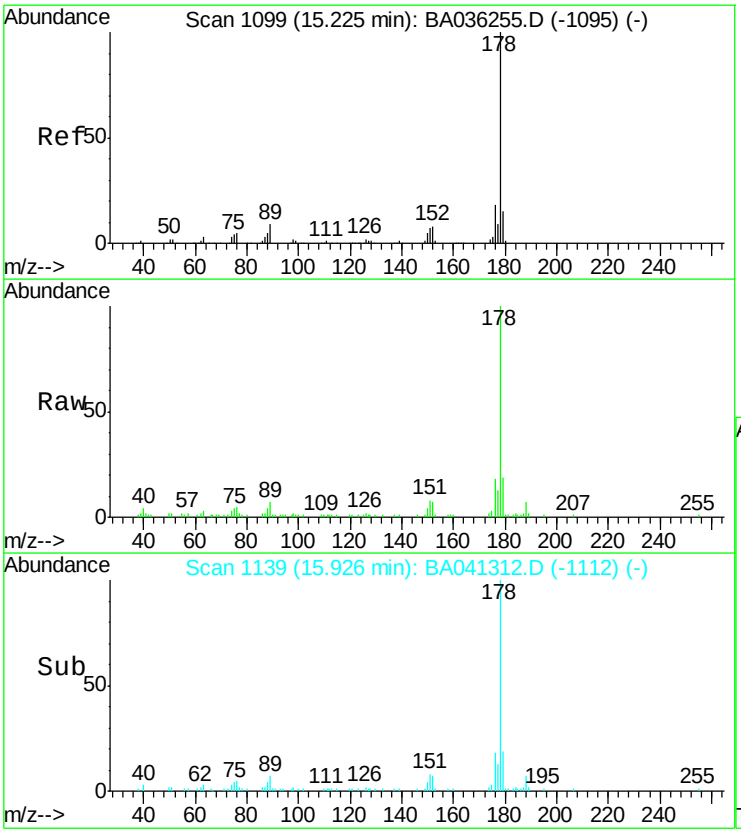


#67
Phenanthrene
Concen: 7.76 ng/ul
RT: 15.82 min Scan# 1130
Delta R.T. 0.02 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:178 Resp: 357963

Ion	Ratio	Lower	Upper
178	100		
179	18.0	12.0	18.0#
176	18.4	14.8	22.2

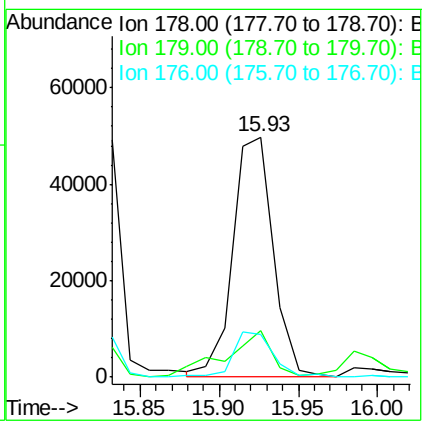


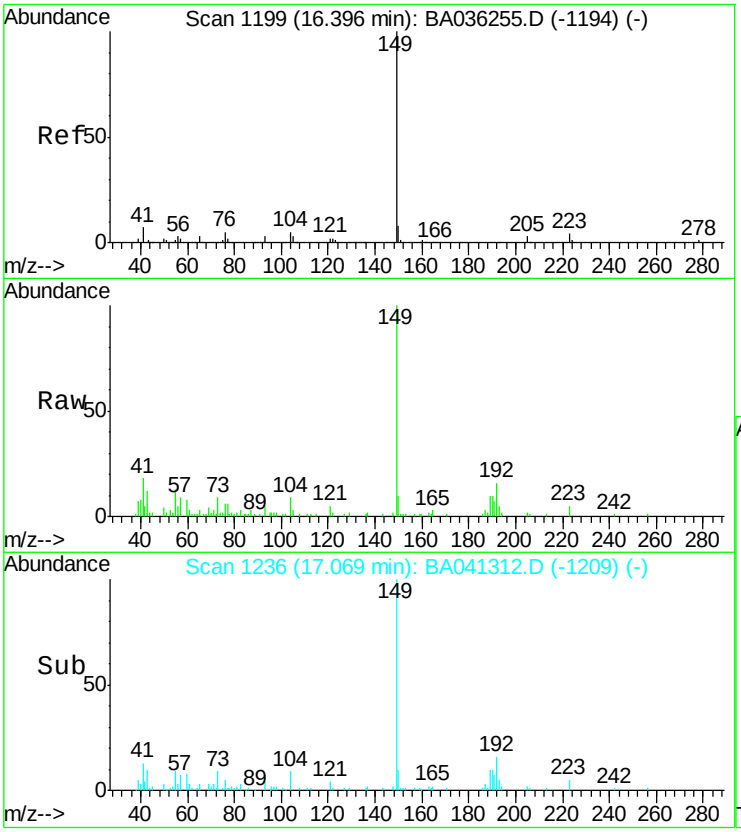


#69
Anthracene
Concen: 1.92 ng/ul
RT: 15.93 min Scan# 1139
Delta R.T. 0.02 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:178 Resp: 89243

Ion	Ratio	Lower	Upper
178	100		
179	19.2	11.9	17.9#
176	17.9	14.3	21.5

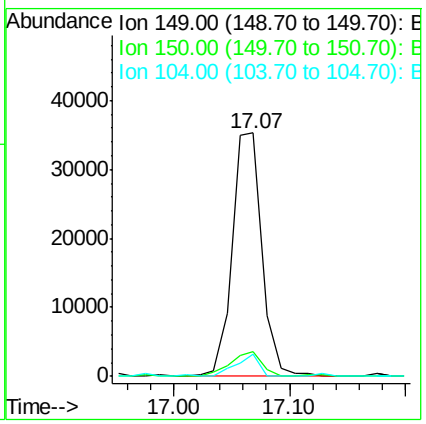


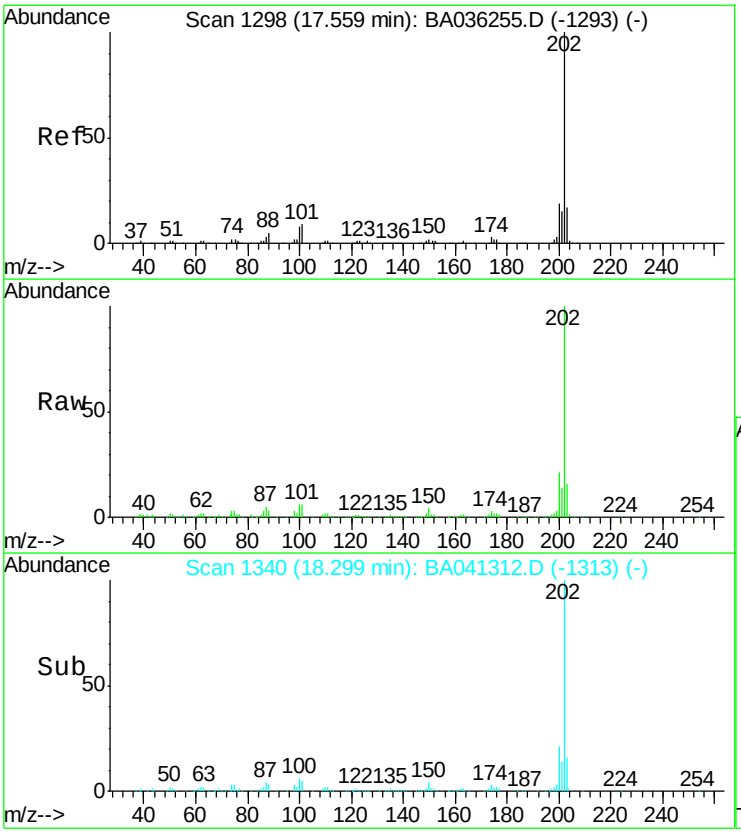


#71
Di-n-butylphthalate
Concen: 1.07 ng/ul
RT: 17.07 min Scan# 1236
Delta R.T. 0.02 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:149 Resp: 64172

Ion	Ratio	Lower	Upper
149	100		
150	10.3	7.9	11.9
104	9.1	5.6	8.4#

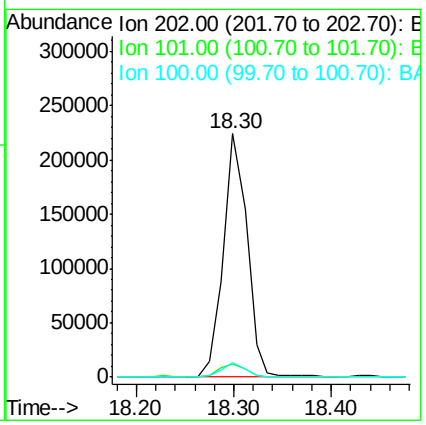


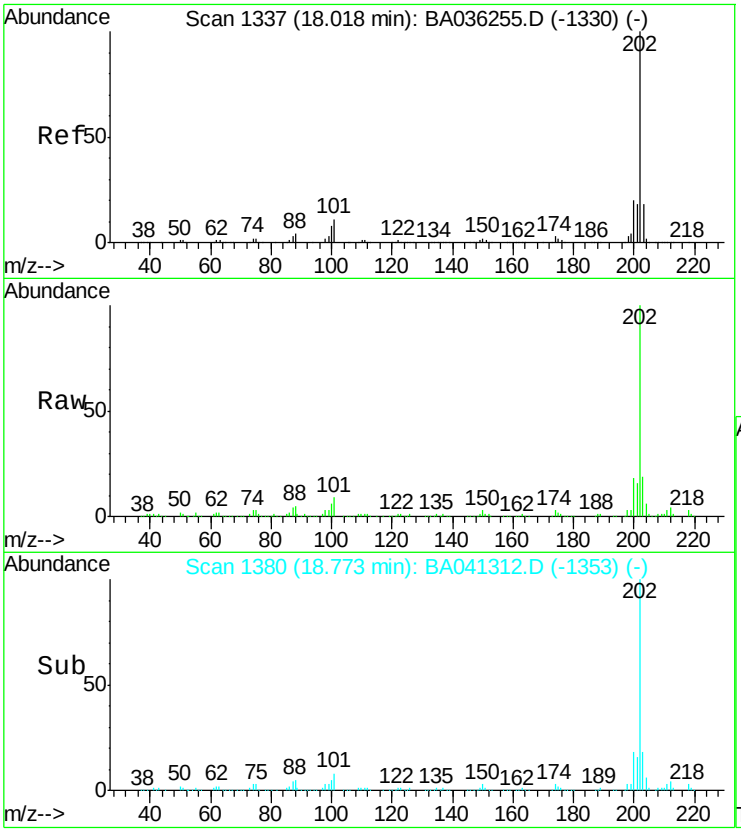


#72
Fluoranthene
Concen: 6.74 ng/ul
RT: 18.30 min Scan# 1340
Delta R.T. 0.01 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:202 Resp: 369191

Ion	Ratio	Lower	Upper
202	100		
101	5.7	2.6	4.0#
100	5.9	2.9	4.3#

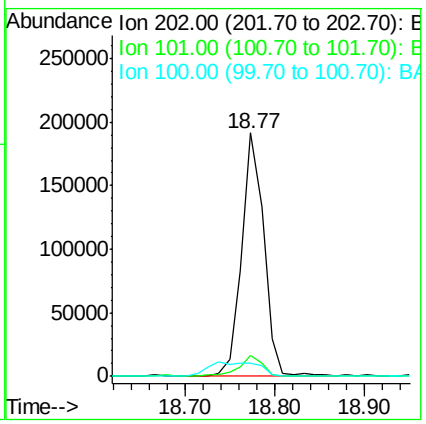


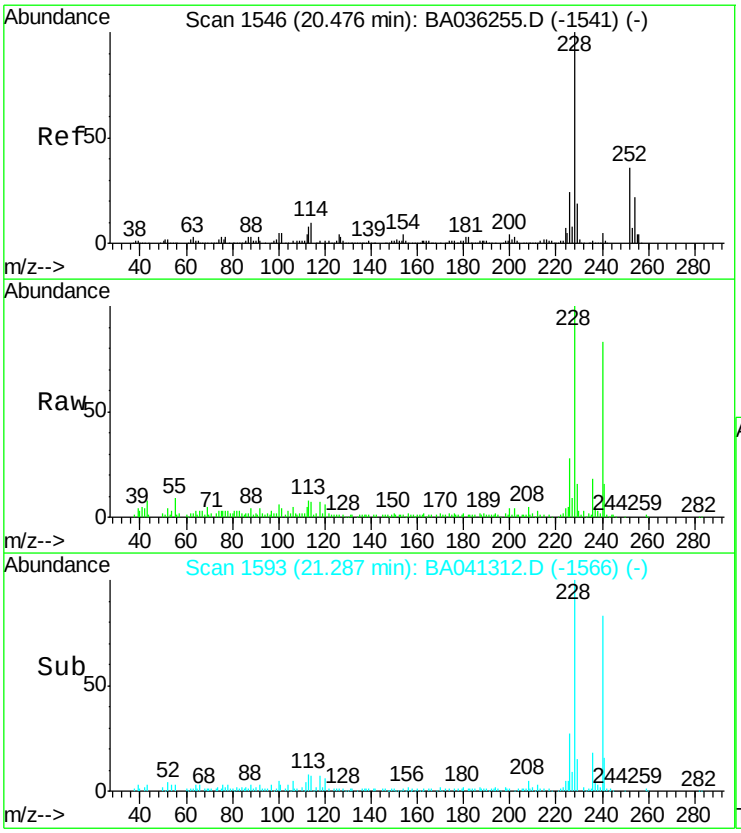


#75
Pyrene
Concen: 8.85 ng/ul
RT: 18.77 min Scan# 1380
Delta R.T. 0.02 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:202 Resp: 330858

Ion	Ratio	Lower	Upper
202	100		
101	8.6	3.5	5.3#
100	5.5	3.4	5.0#

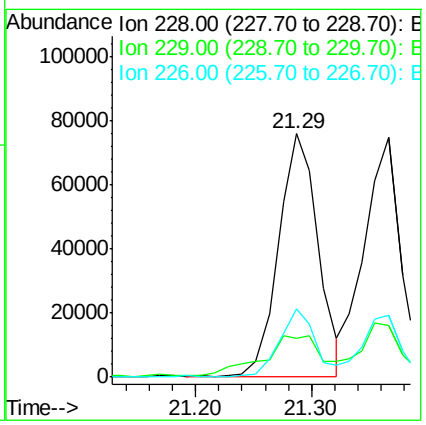


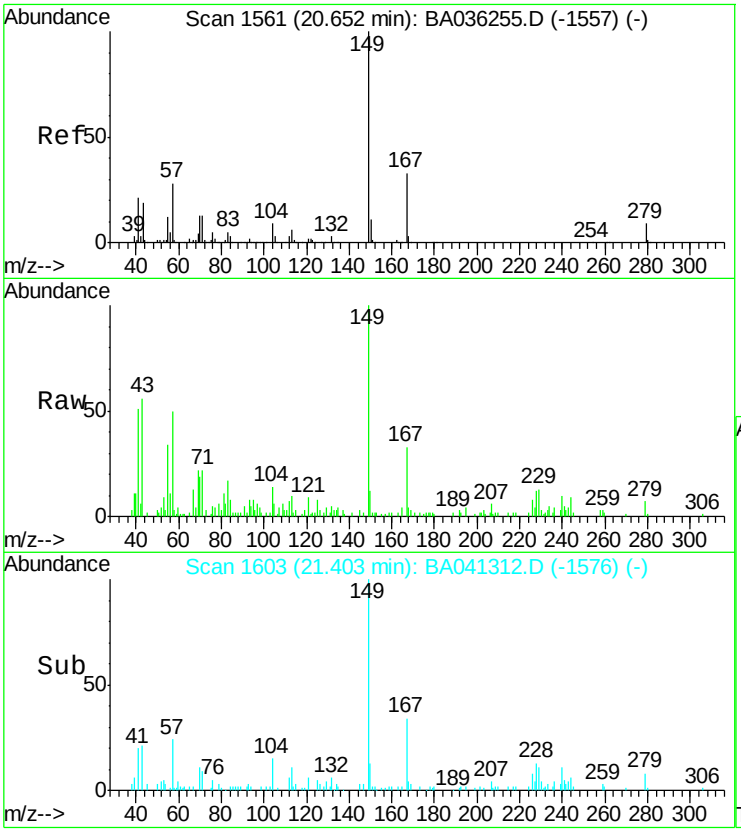


#78
Benzo(a)anthracene
Concen: 5.14 ng/ul
RT: 21.29 min Scan# 1593
Delta R.T. 0.02 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:228 Resp: 183496

Ion	Ratio	Lower	Upper
228	100		
229	16.0	15.9	23.9
226	28.0	20.2	30.2

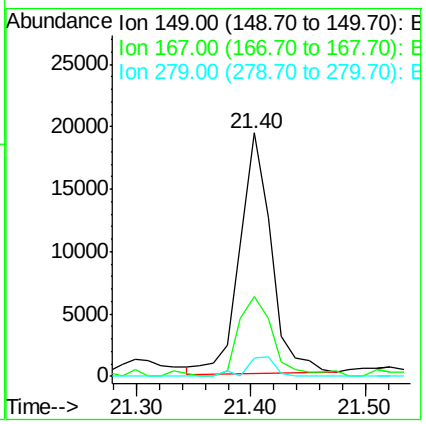


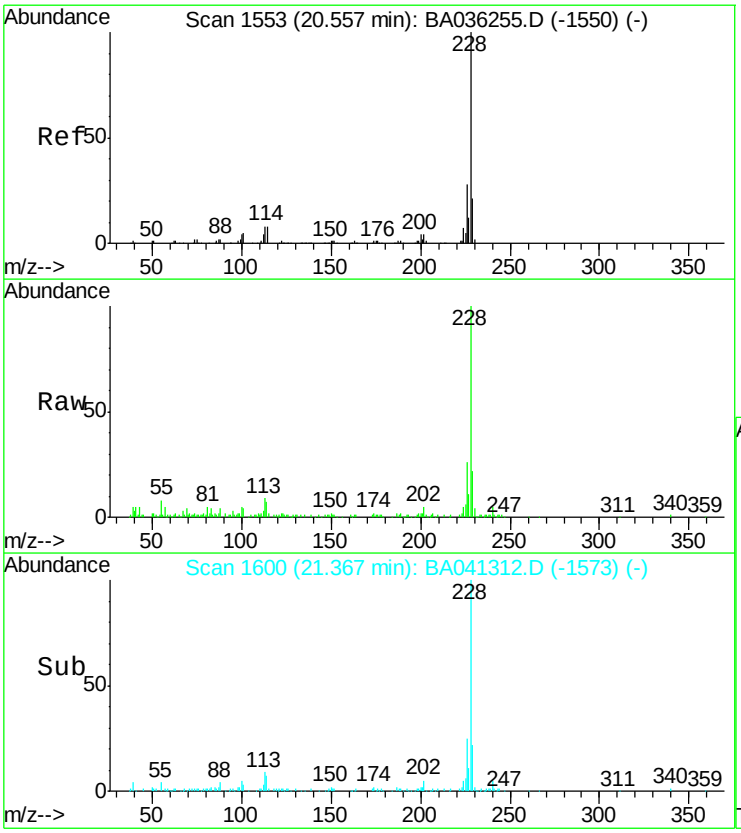


#79
Bis(2-ethylhexyl)phthalate
Concen: 1.93 ng/ul
RT: 21.40 min Scan# 1603
Delta R.T. 0.02 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:149 Resp: 36631

Ion	Ratio	Lower	Upper
149	100		
167	32.7	26.2	39.4
279	7.3	7.7	11.5#

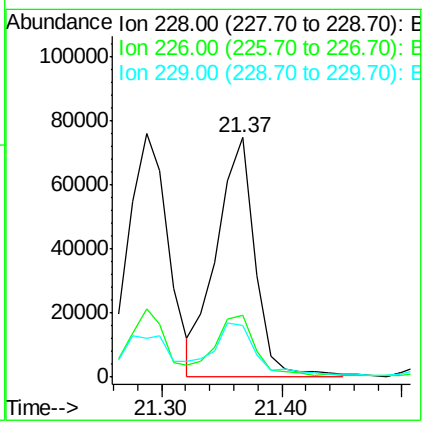


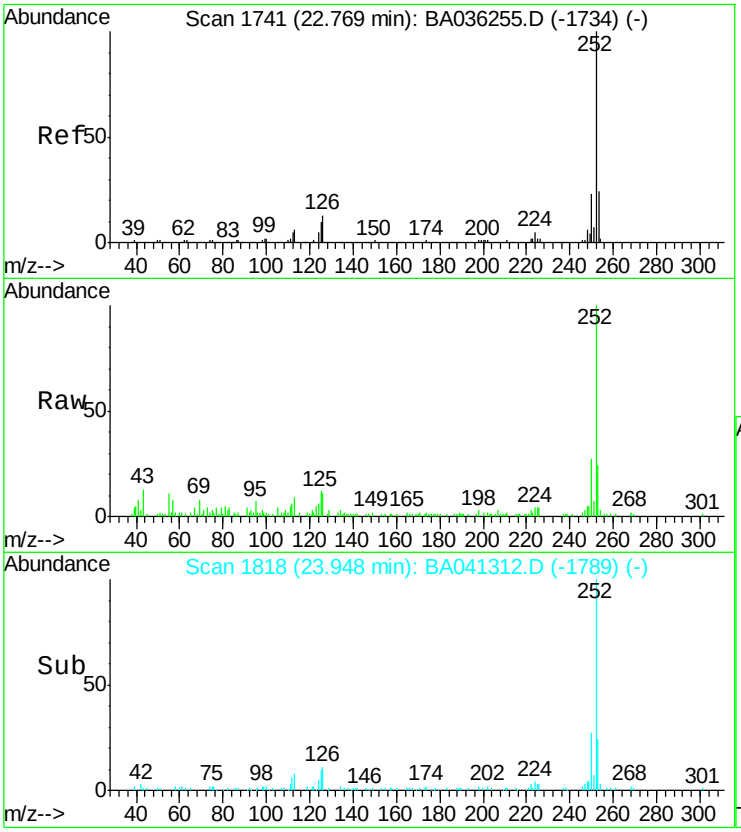


#80
Chrysene
Concen: 5.53 ng/ul m
RT: 21.37 min Scan# 1600
Delta R.T. 0.02 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:228 Resp: 167834

Ion	Ratio	Lower	Upper
228	100		
226	25.7	20.6	31.0
229	21.8	14.4	21.6#

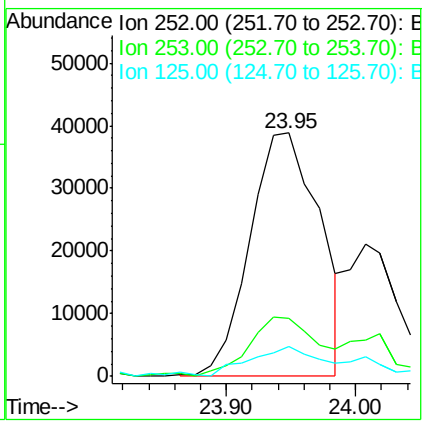


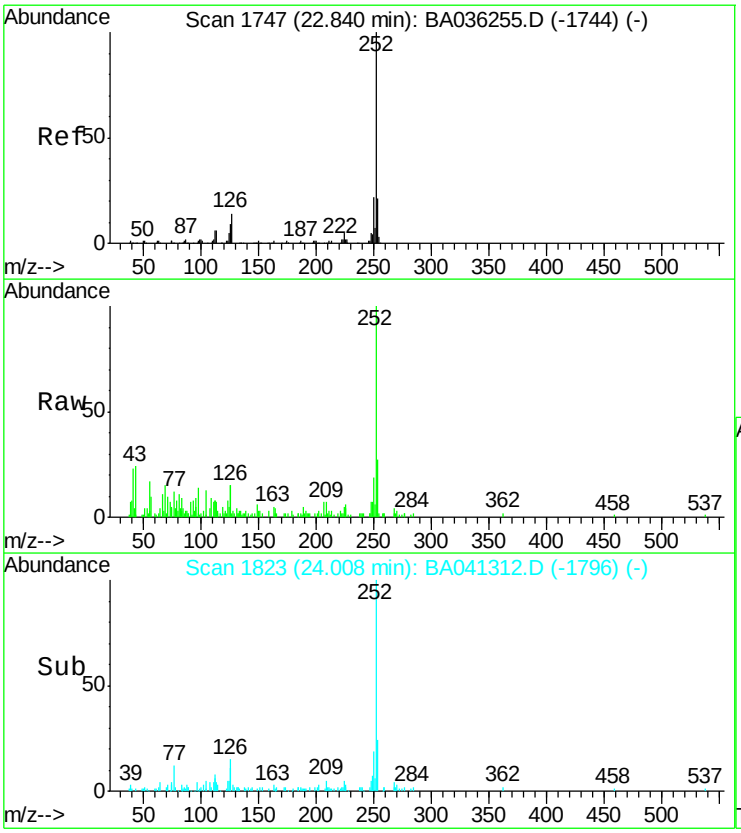


#83
Benzo(b)fluoranthene
Concen: 4.36 ng/ul m
RT: 23.95 min Scan# 1818
Delta R.T. 0.05 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:252 Resp: 145374

Ion	Ratio	Lower	Upper
252	100		
253	23.7	16.2	24.2
125	12.3	4.1	6.1#

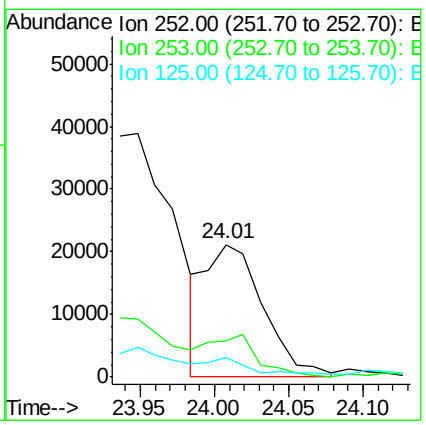


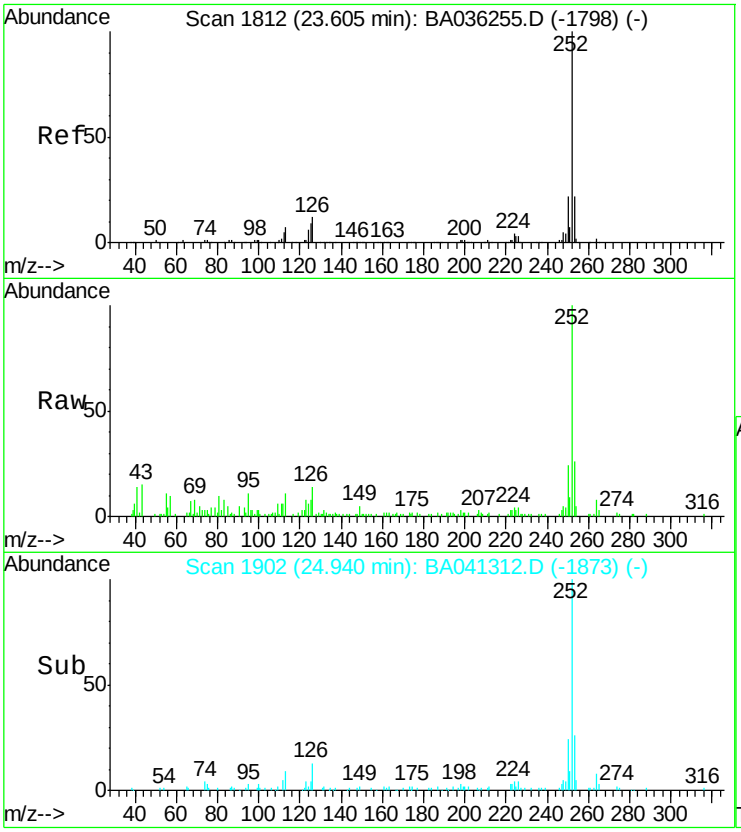


#84
Benzo(k)fluoranthene
Concen: 2.01 ng/ul m
RT: 24.01 min Scan# 1823
Delta R.T. 0.03 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:252 Resp: 57060

Ion	Ratio	Lower	Upper
252	100		
253	26.9	18.2	27.4
125	15.2	3.5	5.3#

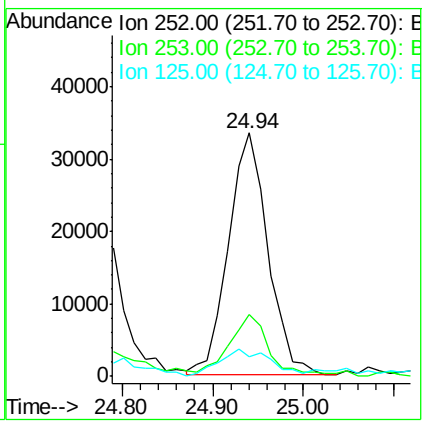


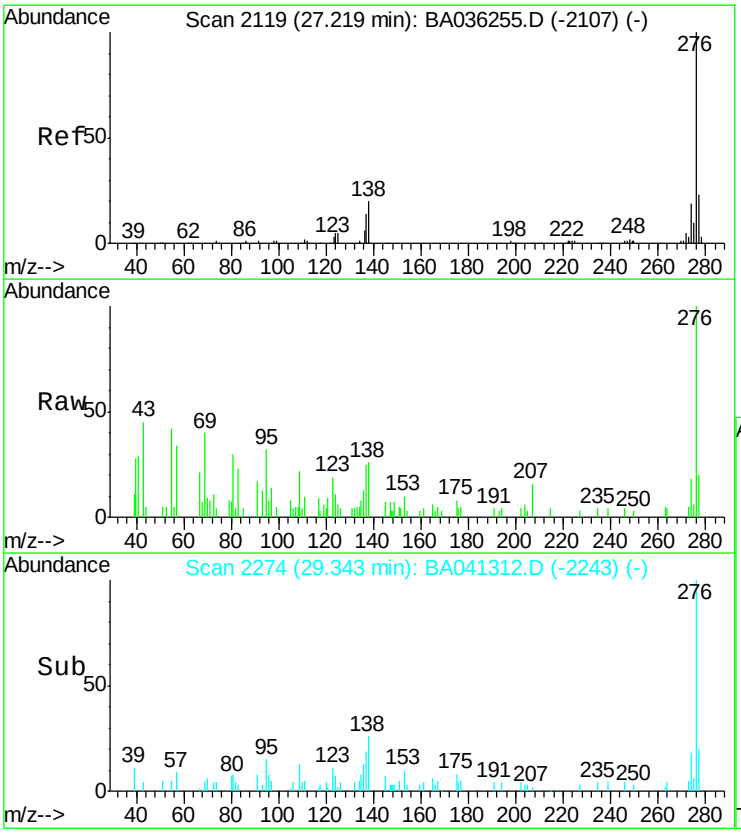


#86
Benzo(a)pyrene
Concen: 3.45 ng/ul
RT: 24.94 min Scan# 1902
Delta R.T. 0.04 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:252 Resp: 99124

Ion	Ratio	Lower	Upper
252	100		
253	25.5	15.1	22.7#
125	7.9	3.4	5.2#

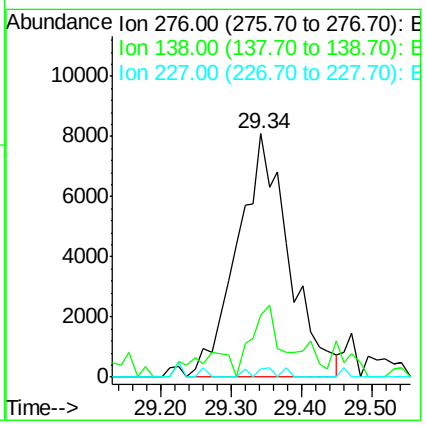


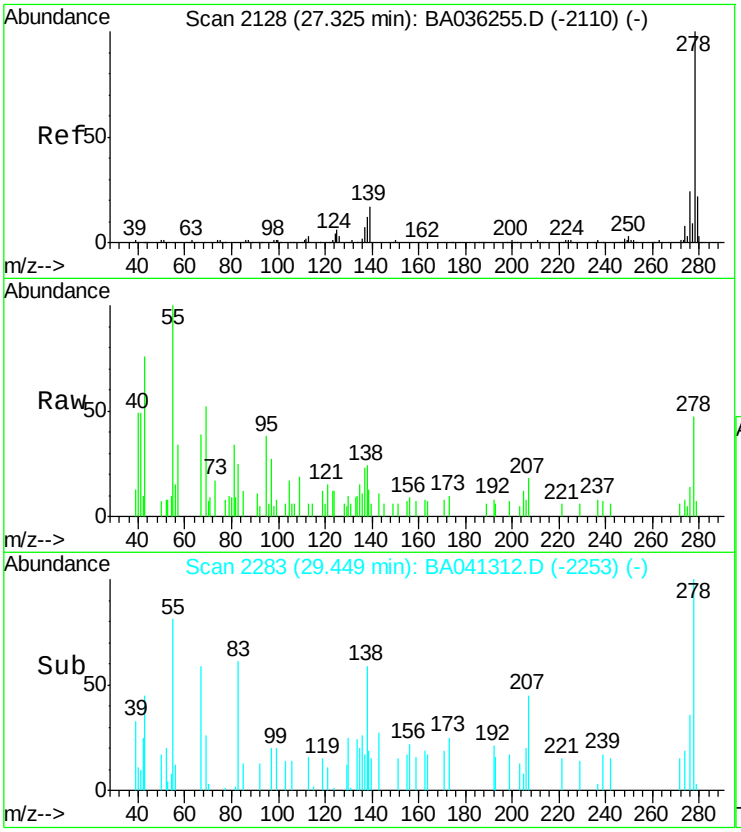


#87
Indeno(1,2,3-cd)pyrene
Concen: 1.53 ng/ul
RT: 29.34 min Scan# 2274
Delta R.T. 0.07 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:276 Resp: 41349

Ion	Ratio	Lower	Upper
276	100		
138	25.6	8.2	12.2#
227	3.4	0.0	0.0#

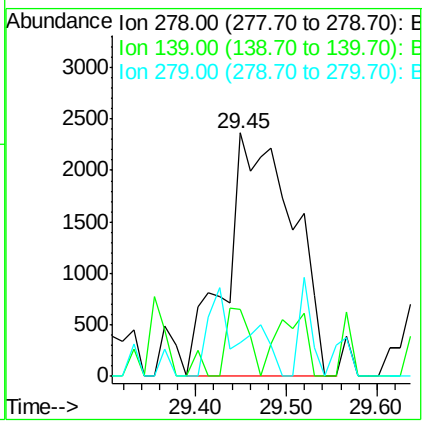


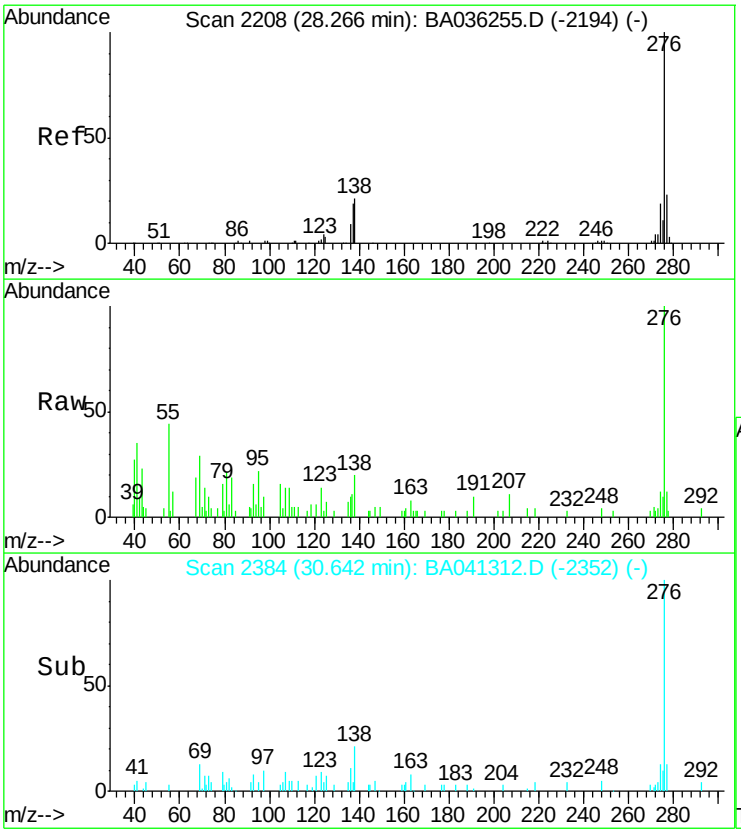


#88
Dibenzo(a,h)anthracene
Concen: 0.59 ng/ul
RT: 29.45 min Scan# 2283
Delta R.T. 0.05 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:278 Resp: 12125

Ion	Ratio	Lower	Upper
278	100		
139	27.3	7.7	11.5#
279	14.0	19.0	28.4#

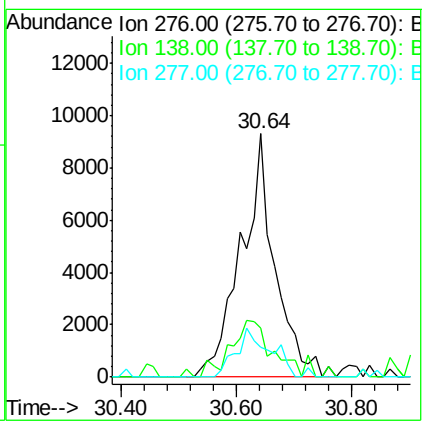




#89
Benzo(g,h,i)perylene
Concen: 1.41 ng/ul
RT: 30.64 min Scan# 2384
Delta R.T. 0.08 min
Lab File: BA041312.D
Acq: 20 Oct 2008 6:20

Tgt Ion:276 Resp: 38420

Ion	Ratio	Lower	Upper
276	100		
138	20.3	10.6	16.0#
277	12.3	20.2	30.2#



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 20 12:45:50 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	224293	20.00	ng/ul	0.01
16) Naphthalene-d8	9.08	136	741736	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.68	164	522243	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.77	188	904601	20.00	ng/ul	0.02
73) Chrysene-d12	21.31	240	673562	20.00	ng/ul	0.02
81) Perylene-d12	25.14	264	510516	20.00	ng/ul	0.07
System Monitoring Compounds						
3) Phenol-d5	6.06	99	343916	25.33	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	255733	27.78	ng/ul	0.01
7) 2-Chlorophenol-d4	6.29	132	311772	27.01	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	155130	16.84	ng/ul	0.01
17) Nitrobenzene-d5	7.71	128	184306	28.07	ng/ul	0.01
20) 2-Nitrophenol-d4	8.33	143	226271	27.99	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.80	165	386757	25.85	ng/ul	0.01
27) 4-Chloroaniline-d4	9.24	131	205675	13.90	ng/ul	0.01
41) Dimethylphthalate-d6	12.13	166	1034806	29.75	ng/ul	0.01
44) Acenaphthylene-d8	12.35	160	1085730	25.68	ng/ul	0.01
49) 4-Nitrophenol-d4	12.98	143	224396	31.66	ng/ul	0.01
55) Fluorene-d10	13.76	176	672847	24.05	ng/ul	0.01
60) 4,6-Dinitro-2-methylphenol	13.93	200	249666	26.67	ng/ul	0.01
68) Anthracene-d10	15.88	188	943569	21.79	ng/ul	0.02
74) Pyrene-d10	18.74	212	704321	23.93	ng/ul	0.02
85) Benzo(a)pyrene-d12	24.87	264	424353	15.26	ng/ul	0.05

Target Compounds						Qvalue
2) Benzaldehyde	5.95	77	3416	0.56	ng/ul#	77
4) Phenol	6.08	94	13470	0.91	ng/ul#	69
12) Acetophenone	7.42	105	69457	3.85	ng/ul	87
47) Acenaphthene	12.74	153	26269	0.96	ng/ul	86
51) Dibenzofuran	13.11	168	16710	0.41	ng/ul	90
56) Fluorene	13.81	166	30982	0.92	ng/ul#	77
67) Phenanthrene	15.82	178	357963	7.76	ng/ul#	97
69) Anthracene	15.93	178	89243	1.92	ng/ul#	95
71) Di-n-butylphthalate	17.07	149	64172	1.07	ng/ul#	97
72) Fluoranthene	18.30	202	369191	6.74	ng/ul#	93
75) Pyrene	18.77	202	330858	8.85	ng/ul#	92
78) Benzo(a)anthracene	21.29	228	183496	5.14	ng/ul	93
79) Bis(2-ethylhexyl)phthalate	21.40	149	36631	1.93	ng/ul#	98
80) Chrysene	21.37	228	167834m	5.53	ng/ul	
83) Benzo(b)fluoranthene	23.95	252	145374m	4.36	ng/ul	
84) Benzo(k)fluoranthene	24.01	252	57060m	2.01	ng/ul	
86) Benzo(a)pyrene	24.94	252	99124	3.45	ng/ul#	86
87) Indeno(1,2,3-cd)pyrene	29.34	276	41349	1.53	ng/ul#	59
88) Dibenzo(a,h)anthracene	29.45	278	12125	0.59	ng/ul#	72
89) Benzo(g,h,i)perylene	30.64	276	38420	1.41	ng/ul#	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.990	37	40	43	rBV3	11994	26477	0.92%	0.054%
2	3.072	43	47	52	rVV4	33742	86145	3.00%	0.175%
3	3.225	56	60	64	rVB6	6437	23414	0.82%	0.048%
4	3.800	105	109	112	rVV4	8856	22091	0.77%	0.045%
5	4.141	134	138	144	rVV3	13061	36861	1.28%	0.075%
6	4.259	145	148	151	rVV	13224	21350	0.74%	0.043%
7	5.941	286	291	292	rBV2	15032	25214	0.88%	0.051%
8	6.059	298	301	307	rBV	817223	1518535	52.89%	3.083%
9	6.165	307	310	318	rVB	739436	1052837	36.67%	2.137%
10	6.295	318	321	326	rBV	938831	1558974	54.30%	3.165%
11	6.413	328	331	333	rBV2	18686	26967	0.94%	0.055%
12	6.695	352	355	360	rBV	940230	1527135	53.19%	3.100%
13	6.989	373	380	384	rBV6	18237	80946	2.82%	0.164%
14	7.388	411	414	424	rBV2	569666	1252630	43.63%	2.543%
15	7.706	437	441	444	rBV	1020168	1603573	55.85%	3.255%
16	7.930	456	460	462	rVV2	13310	26476	0.92%	0.054%
17	8.319	490	493	497	rBV	963049	1577991	54.96%	3.203%
18	8.565	506	514	517	rBV	50250	139444	4.86%	0.283%
19	8.647	518	521	524	rVB2	29394	39759	1.38%	0.081%
20	8.800	530	534	537	rBV	1199961	2008215	69.94%	4.077%
21	9.083	555	558	562	rBV	1033624	1687491	58.77%	3.426%
22	9.236	567	571	579	rVV	560386	863931	30.09%	1.754%
23	9.600	600	602	611	rVB4	21115	47275	1.65%	0.096%
24	9.776	614	617	619	rBV	21693	33102	1.15%	0.067%
25	9.882	623	626	629	rBV2	10054	20992	0.73%	0.043%
26	10.283	654	660	664	rVB2	10038	23484	0.82%	0.048%
27	11.071	724	727	730	rVB2	19352	33433	1.16%	0.068%
28	11.319	746	748	751	rVB2	19742	33015	1.15%	0.067%
29	11.600	766	772	774	rBV3	7501	24094	0.84%	0.049%
30	11.989	800	805	808	rBV4	10391	27375	0.95%	0.056%
31	12.128	813	817	820	rBV	1804873	2567723	89.43%	5.213%
32	12.353	832	836	839	rBV	1586091	2435658	84.83%	4.945%
33	12.683	860	864	867	rVV	1347980	2150514	74.90%	4.366%
34	12.742	867	869	872	rVV	66806	100627	3.50%	0.204%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.978	884	889	892	rBV	1104857	1867994	65.06%	3.792%
36	13.108	897	900	903	rVB	53602	93385	3.25%	0.190%
37	13.249	909	912	916	rVB4	18836	36980	1.29%	0.075%
38	13.403	923	925	929	rVB4	14568	31433	1.09%	0.064%
39	13.638	943	945	950	rBV3	18194	29847	1.04%	0.061%
40	13.756	950	955	958	rBV	1420087	2584049	90.00%	5.246%
41	13.815	958	960	963	rVV	68526	105414	3.67%	0.214%
42	13.933	966	970	973	rVV	924625	1600979	55.76%	3.250%
43	14.015	974	977	979	rVV3	14039	35518	1.24%	0.072%
44	14.168	988	990	992	rBV2	15226	33943	1.18%	0.069%
45	14.369	1004	1007	1010	rVV2	33241	61859	2.15%	0.126%
46	14.463	1010	1015	1017	rVV3	12184	24437	0.85%	0.050%
47	14.711	1033	1036	1043	rBV3	32850	86022	3.00%	0.175%
48	14.970	1054	1058	1060	rBV3	16082	31094	1.08%	0.063%
49	15.135	1067	1072	1075	rBV6	9722	34104	1.19%	0.069%
50	15.359	1089	1091	1099	rVB4	17186	51292	1.79%	0.104%
51	15.477	1099	1101	1104	rBV4	15280	41498	1.45%	0.084%
52	15.548	1104	1107	1109	rVB	24105	41684	1.45%	0.085%
53	15.595	1109	1111	1113	rVB3	19267	22119	0.77%	0.045%
54	15.655	1113	1116	1118	rVB	30732	50144	1.75%	0.102%
55	15.713	1119	1121	1122	rBV	22928	24466	0.85%	0.050%
56	15.773	1122	1126	1128	rVV	1314733	2425640	84.48%	4.924%
57	15.820	1128	1130	1132	rVV	488368	778562	27.12%	1.581%
58	15.891	1132	1136	1141	rVV	1301453	2718072	94.67%	5.518%
59	16.031	1146	1148	1152	rVB4	20484	33321	1.16%	0.068%
60	16.220	1161	1164	1166	rBV3	19116	43138	1.50%	0.088%
61	16.267	1166	1168	1171	rVB	56516	82464	2.87%	0.167%
62	16.432	1176	1182	1184	rBV7	15029	45354	1.58%	0.092%
63	16.539	1189	1191	1193	rBV2	21074	31466	1.10%	0.064%
64	16.751	1206	1209	1212	rVB3	20109	33803	1.18%	0.069%
65	16.822	1212	1215	1218	rBV	60381	124970	4.35%	0.254%
66	16.881	1218	1220	1223	rVB	89950	141991	4.95%	0.288%
67	16.976	1223	1228	1230	rBV2	33092	59295	2.07%	0.120%
68	17.035	1230	1233	1238	rBV3	423029	980102	34.14%	1.990%
69	17.258	1250	1252	1254	rBV3	15810	22860	0.80%	0.046%
70	17.389	1260	1263	1265	rBV2	19400	36909	1.29%	0.075%
71	17.460	1265	1269	1274	rVB2	50437	153804	5.36%	0.312%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

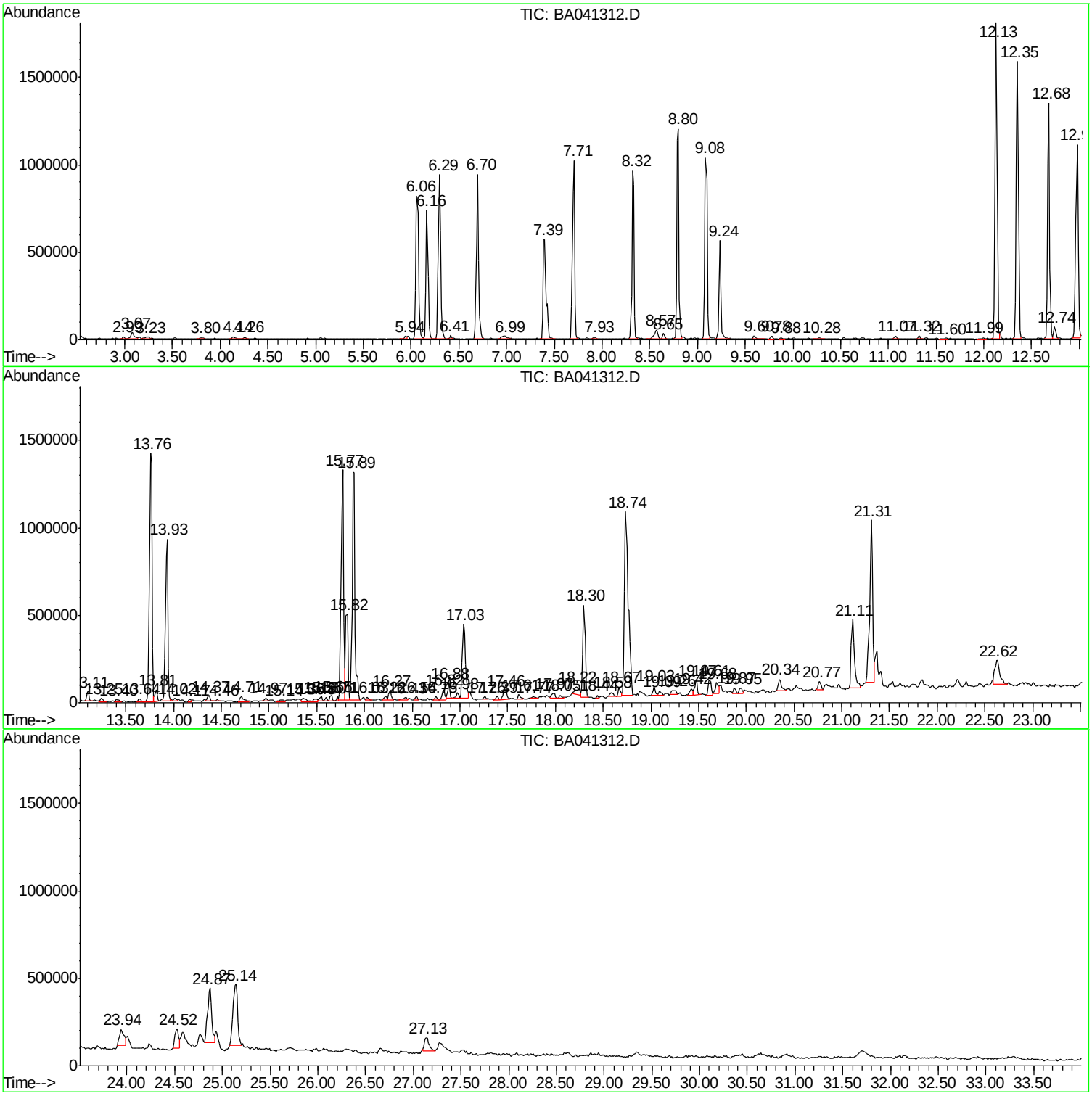
72	17.614	1280	1282	1286	rBV3	22967	39985	1.39%	0.081%
73	17.767	1293	1295	1299	rBV4	11070	20775	0.72%	0.042%
74	17.969	1310	1312	1317	rVB3	26972	66692	2.32%	0.135%
75	18.051	1317	1319	1322	rBV4	13897	26334	0.92%	0.053%
76	18.216	1330	1333	1337	rVV6	40305	137552	4.79%	0.279%
77	18.299	1337	1340	1344	rVB	526235	874966	30.47%	1.776%
78	18.440	1350	1352	1354	rBV3	15820	20116	0.70%	0.041%
79	18.583	1362	1364	1368	rVB4	23373	49562	1.73%	0.101%
80	18.666	1368	1371	1373	rBV3	54952	91117	3.17%	0.185%
81	18.737	1373	1377	1383	rVB2	1049953	2871231	100.00%	5.829%
82	19.033	1400	1402	1405	rBV3	52895	94818	3.30%	0.192%
83	19.093	1405	1407	1410	rVB3	24926	44540	1.55%	0.090%
84	19.257	1416	1421	1423	rBV5	25734	87066	3.03%	0.177%
85	19.422	1432	1435	1437	rBV3	36890	87973	3.06%	0.179%
86	19.470	1437	1439	1443	rVB	82373	163944	5.71%	0.333%
87	19.612	1448	1451	1454	rBV	83457	170320	5.93%	0.346%
88	19.684	1454	1457	1460	rBV3	63436	173953	6.06%	0.353%
89	19.874	1471	1473	1476	rVB	31906	46825	1.63%	0.095%
90	19.945	1476	1479	1481	rBV3	28121	60379	2.10%	0.123%
91	20.344	1511	1513	1519	rBV6	65348	153883	5.36%	0.312%
92	20.769	1546	1549	1552	rVB3	47661	88653	3.09%	0.180%
93	21.111	1575	1578	1585	rBV	392569	888410	30.94%	1.804%
94	21.310	1590	1595	1598	rBV2	930165	2192904	76.38%	4.452%
95	22.621	1703	1706	1715	rVB5	138750	521244	18.15%	1.058%
96	23.936	1814	1817	1821	rBV	87724	287460	10.01%	0.584%
97	24.518	1863	1866	1869	rBV	107476	293475	10.22%	0.596%
98	24.871	1891	1896	1900	rBV	308936	952915	33.19%	1.934%
99	25.142	1913	1919	1924	rBV	346713	1172294	40.83%	2.380%
100	27.132	2084	2087	2095	rVB	78134	276148	9.62%	0.561%

Sum of corrected areas: 49259294

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On    : 20 Oct 2008   6:20
Operator  : QM
Sample    : Z4920-08
Misc      :
ALS Vial  : 21   Sample Multiplier: 1

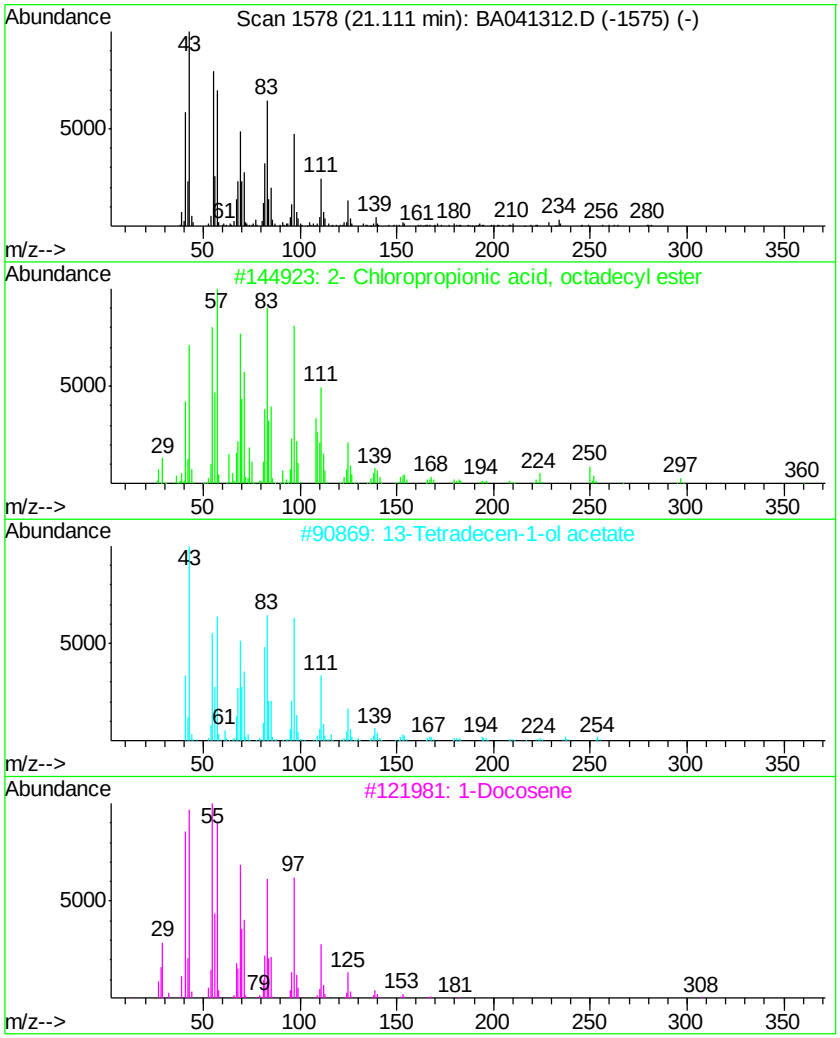
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

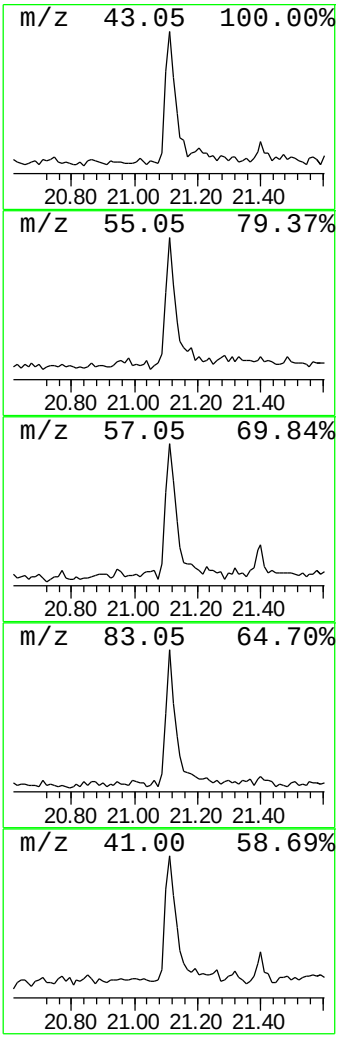
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

**********************************************************************
Peak Number  1  2- Chloropropionic acid, oc...  Concentration Rank  1
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.11	8.10 ng/ul	888410	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	87
2	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	80
3	1-Docosene	308	C22H44	001599-67-3	76
4	Cyclohexadecane, 1,2-diethyl-	280	C20H40	1000155-85-3	64
5	1-Hexacosanol	382	C26H54O	000506-52-5	62





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

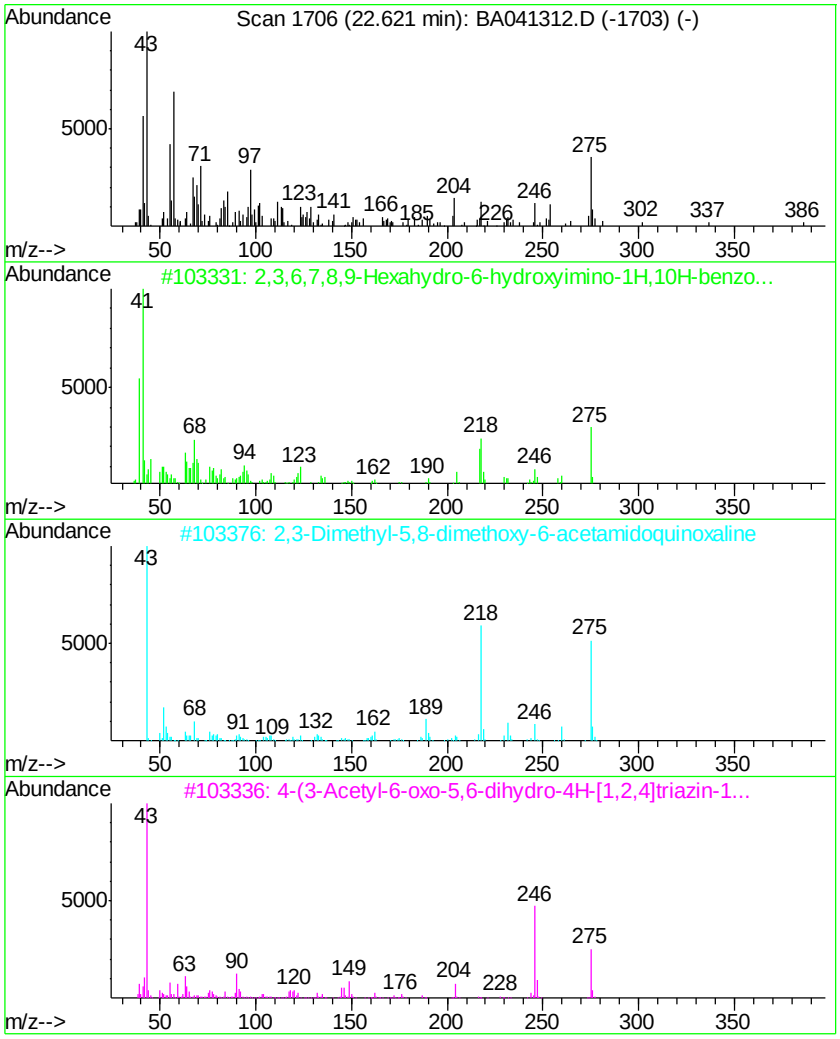
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

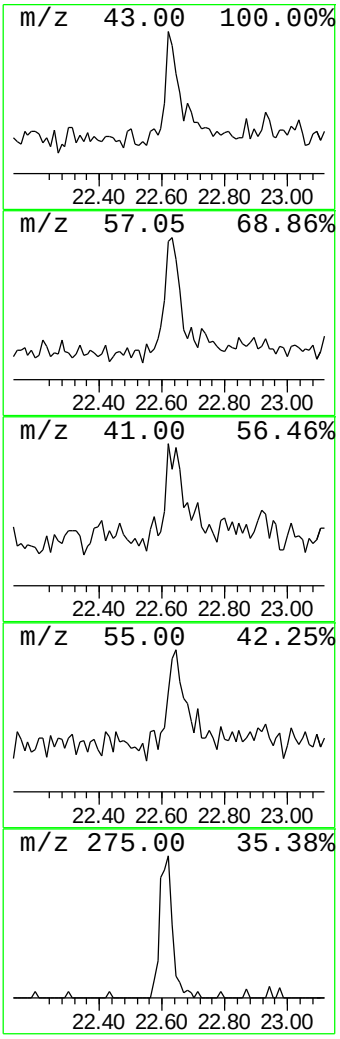
****

Peak Number 2 unknown22.62 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.62	4.75 ng/ul	521244	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3,6,7,8,9-Hexahydro-6-hydroxyi...	275	C13H13N3O2S	1000223-09-6	45
2	2,3-Dimethyl-5,8-dimethoxy-6-ace...	275	C14H17N3O3	056393-31-8	35
3	4-(3-Acetyl-6-oxo-5,6-dihydro-4H...	275	C13H13N3O4	1000209-99-6	15
4	Acetamide, N-(9-hydroxy-4-methyl...	275	C14H13NO5	1000266-13-6	14
5	d-Galactose, diheptyl mercaptal	426	C20H42O5S2	112318-00-0	10





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

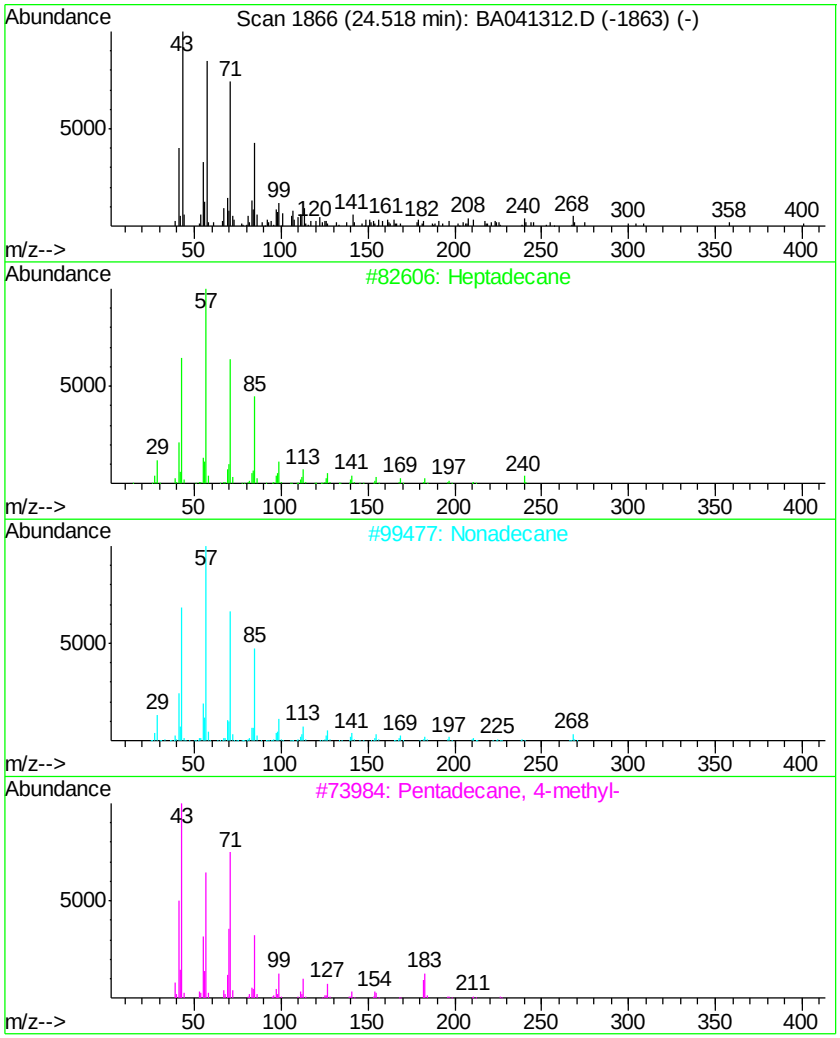
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

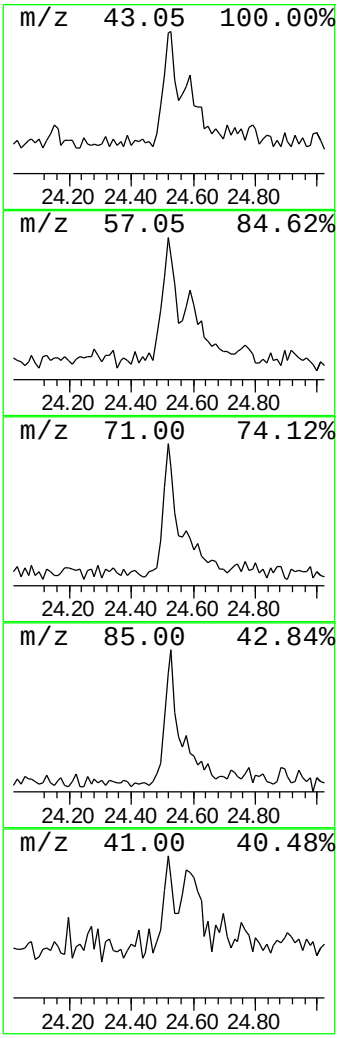
****

Peak Number 3 Heptadecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.52	5.01 ng/ul	293475	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	94
2	Nonadecane	268	C19H40	000629-92-5	93
3	Pentadecane, 4-methyl-	226	C16H34	002801-87-8	91
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	86
5	Eicosane	282	C20H42	000112-95-8	83





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

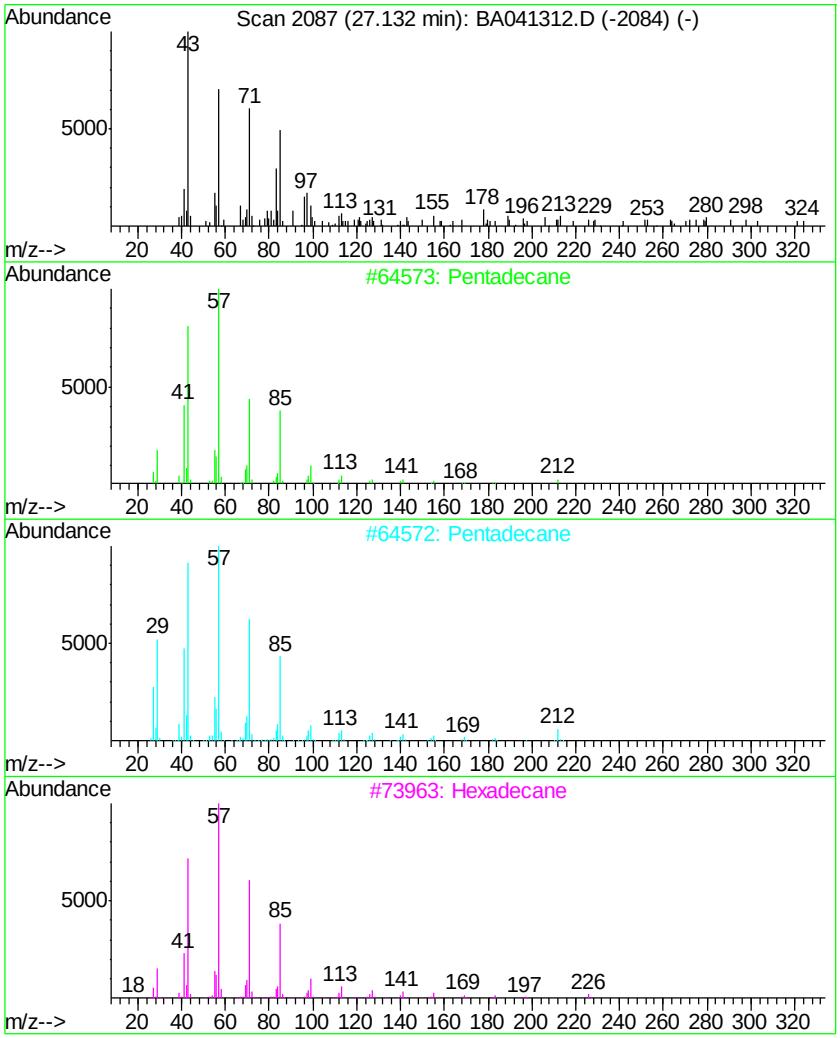
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

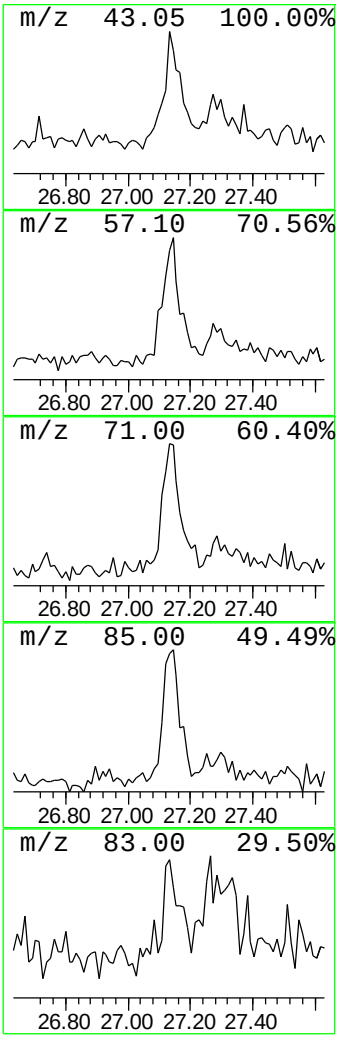
****

Peak Number 4 Pentadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.13	4.71 ng/ul	276148	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	70
2	Pentadecane	212	C15H32	000629-62-9	70
3	Hexadecane	226	C16H34	000544-76-3	64
4	Pentadecane	212	C15H32	000629-62-9	62
5	Hexadecane	226	C16H34	000544-76-3	62





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041312.D
Acq On : 20 Oct 2008 6:20
Operator : QM
Sample : Z4920-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2- Chloropropioni...	21.11	8.1	ng/ul	888410	5	21.31	2192900	20.0
unknown22.62	22.62	4.8	ng/ul	521244	5	21.31	2192900	20.0
Heptadecane	24.52	5.0	ng/ul	293475	6	25.14	1172290	20.0
Pentadecane	27.13	4.7	ng/ul	276148	6	25.14	1172290	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-11

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041314.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.36 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	37	J
108-95-2	Phenol	42	J
111-44-4	Bis(2-chloroethyl)ether	96	U
95-57-8	2-Chlorophenol	96	U
95-48-7	2-Methylphenol	96	U
108-60-1	2,2'-Oxybis(1-chloropropane)	96	U
98-86-2	Acetophenone	160	
106-44-5	4-Methylphenol	96	U
621-64-7	N-Nitroso-di-n-propylamine	96	U
67-72-1	Hexachloroethane	96	U
98-95-3	Nitrobenzene	96	U
78-59-1	Isophorone	96	U
88-75-5	2-Nitrophenol	96	U
105-67-9	2,4-Dimethylphenol	96	U
111-91-1	Bis(2-chloroethoxy)methane	96	U
120-83-2	2,4-Dichlorophenol	96	U
91-20-3	Naphthalene	96	U
106-47-8	4-Chloroaniline	96	U
87-68-3	Hexachlorobutadiene	96	U
105-60-2	Caprolactam	96	U
59-50-7	4-Chloro-3-methylphenol	96	U
91-57-6	2-Methylnaphthalene	96	U
77-47-4	Hexachlorocyclopentadiene	96	U
88-06-2	2,4,6-Trichlorophenol	96	U
95-95-4	2,4,5-Trichlorophenol	96	U
92-52-4	1,1'-Biphenyl	96	U
91-58-7	2-Chloronaphthalene	96	U
88-74-4	2-Nitroaniline	190	U
131-11-3	Dimethylphthalate	96	U
606-20-2	2,6-Dinitrotoluene	96	U
208-96-8	Acenaphthylene	96	U
99-09-2	3-Nitroaniline	190	U
83-32-9	Acenaphthene	96	U
51-28-5	2,4-Dinitrophenol	190	U
100-02-7	4-Nitrophenol	190	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-11

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041314.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 12.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.36 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	96	U
121-14-2	2,4-Dinitrotoluene	96	U
84-66-2	Diethylphthalate	96	U
86-73-7	Fluorene	96	U
7005-72-3	4-Chlorophenyl-phenylether	96	U
100-01-6	4-Nitroaniline	190	U
534-52-1	4,6-Dinitro-2-methylphenol	190	U
86-30-6	N-Nitrosodiphenylamine[1]	290	
95-94-3	1,2,4,5-Tetrachlorobenzene	96	U
101-55-3	4-Bromophenyl-phenylether	96	U
118-74-1	Hexachlorobenzene	96	U
1912-24-9	Atrazine	96	U
87-86-5	Pentachlorophenol	190	U
85-01-8	Phenanthrene	45	J
120-12-7	Anthracene	96	U
86-74-8	Carbazole	96	U
84-74-2	Di-n-butylphthalate	310	
206-44-0	Fluoranthene	97	
129-00-0	Pyrene	130	
85-68-7	Butylbenzylphthalate	96	U
91-94-1	3,3'-Dichlorobenzidine	96	U
56-55-3	Benzo(a)anthracene	53	J
218-01-9	Chrysene	89	J
117-81-7	Bis(2-ethylhexyl)phthalate	210	B
117-84-0	Di-n-octylphthalate	96	U
205-99-2	Benzo(b)fluoranthene	97	
207-08-9	Benzo(k)fluoranthene	39	J
50-32-8	Benzo(a)pyrene	71	J
193-39-5	Indeno(1,2,3-cd)pyrene	96	U
53-70-3	Dibenzo(a,h)anthracene	96	U
191-24-2	Benzo(g,h,i)perylene	96	U
58-90-2	2,3,4,6-Tetrachlorophenol	96	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUP

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4920-11

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041314.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 12.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.36 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

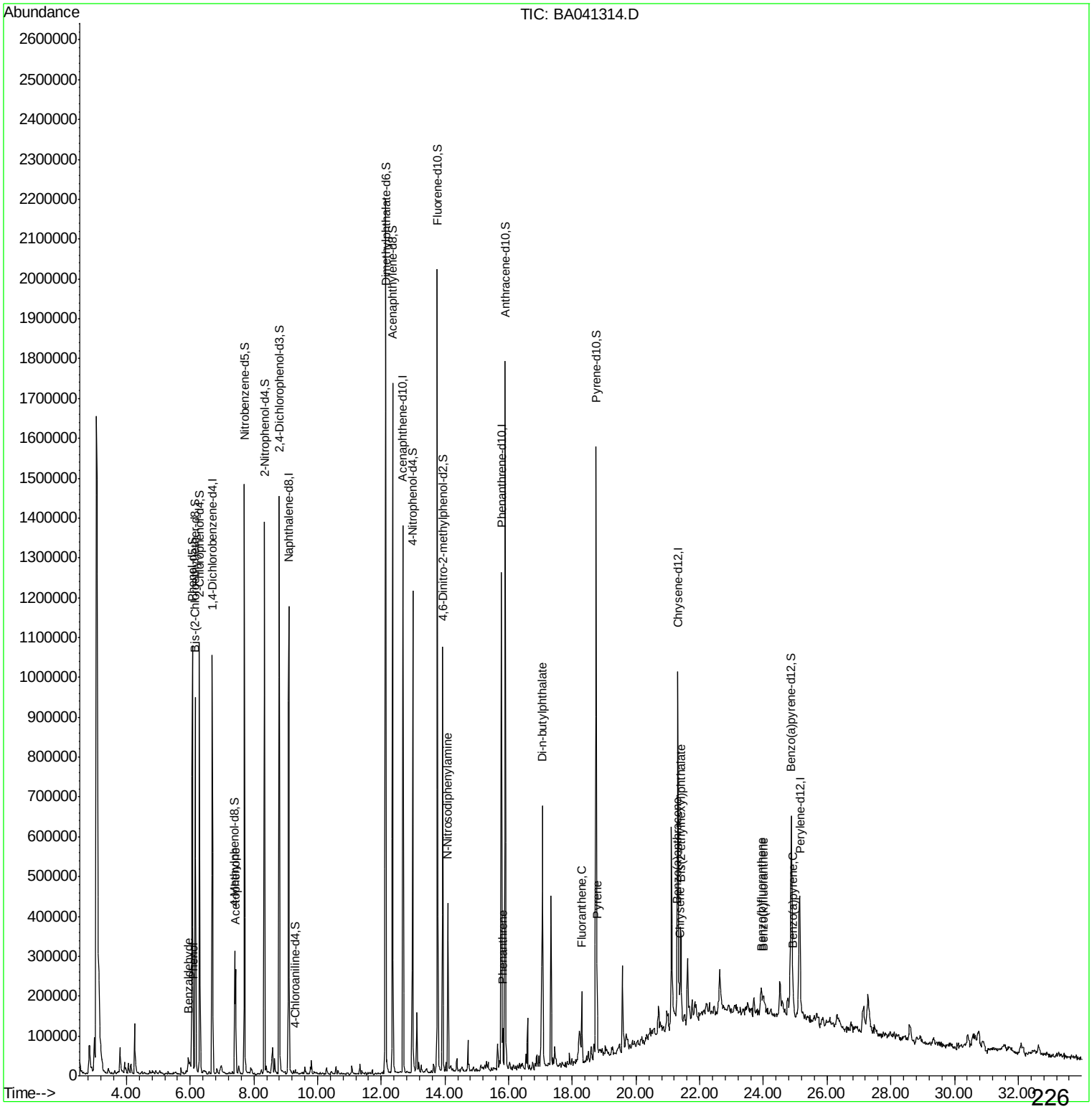
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	3268-79-9	Chloromethyl thiocyanate	2.83	95	JN
02.		unknown2.99	2.99	81	J
03.	7119-89-3	Methane, dichloronitro-	3.06	2900	JN
04.	5076-20-0	Oxirane, tetramethyl-	4.26	110	JN
05.		unknown13.12	13.12	81	J
06.	119-75-5	Benzenamine, 2-nitro-N-phenyl-	17.34	240	JN
07.	120-46-7	1,3-Propanedione, 1,3-diphenyl-	18.22	120	JN
08.	836-30-6	Benzenamine, 4-nitro-N-phenyl-	19.57	170	JN
09.	1599-67-3	1-Docosene	21.11	460	JN
10.		unknown21.61	21.61	130	J
11.	4282-44-4	1-Iodoundecane	24.51	150	JN
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

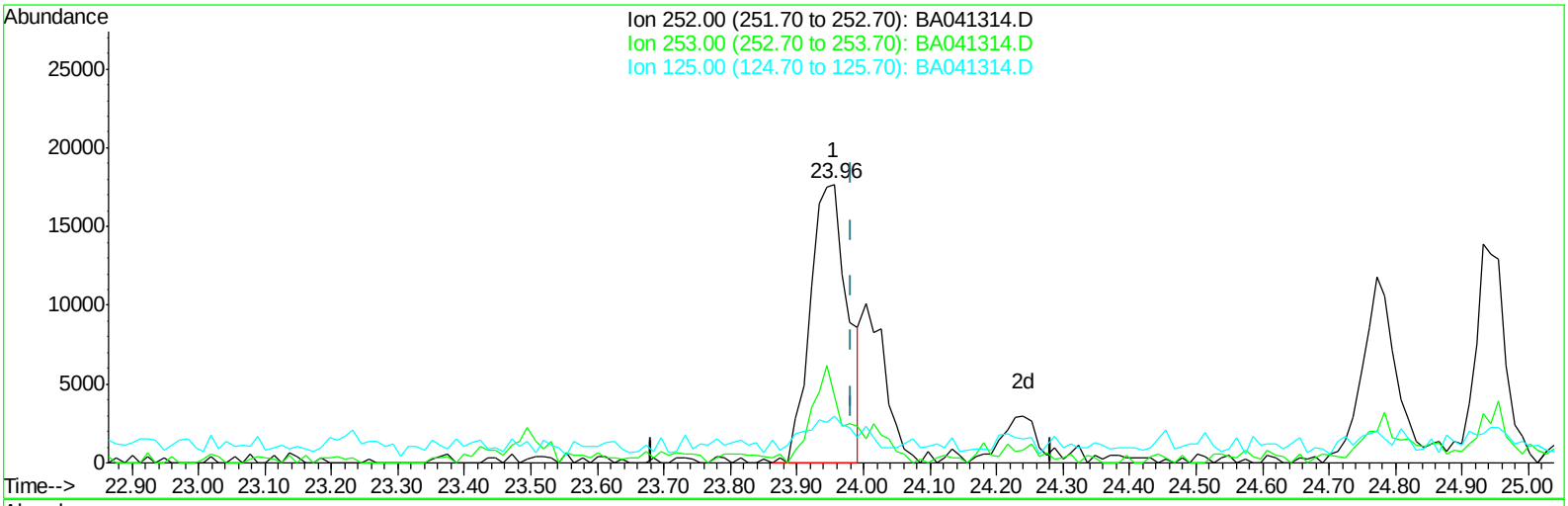
Quant Time: Oct 20 12:51:23 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

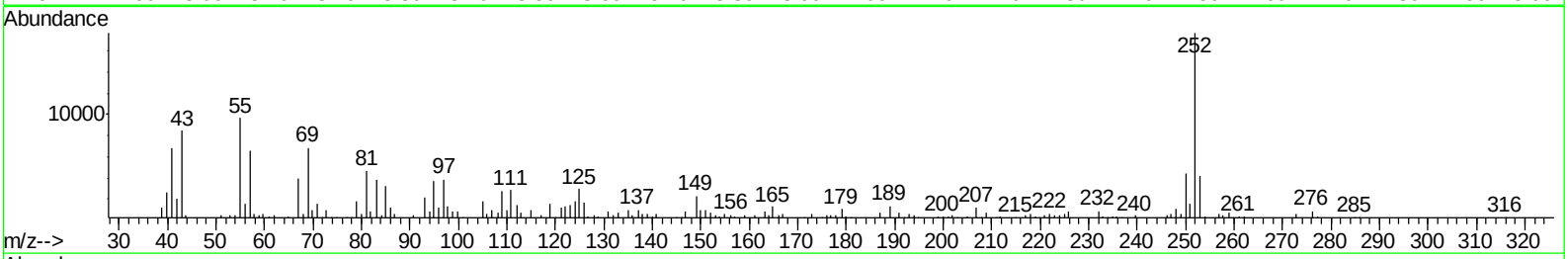


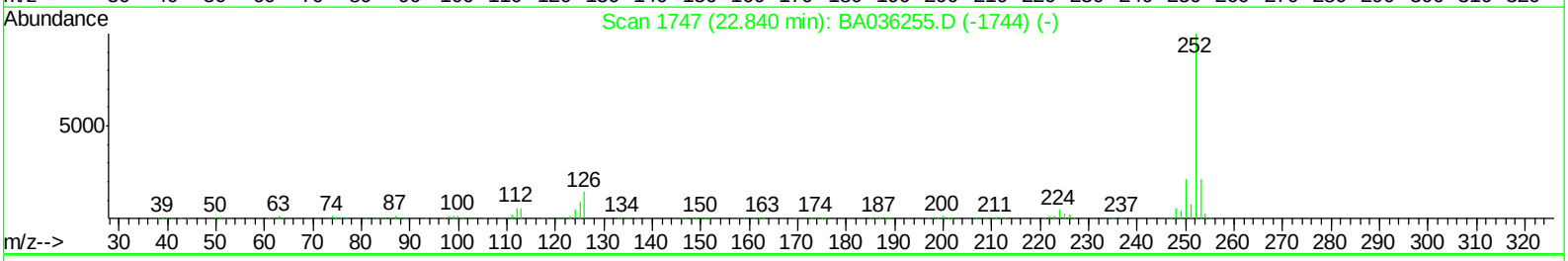
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 20 11:30:21 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







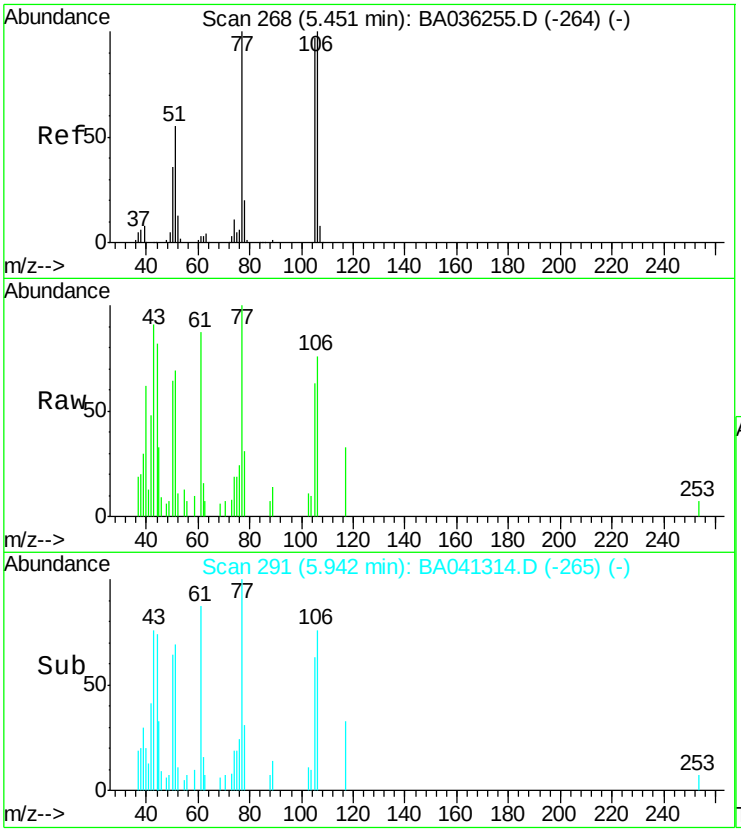
TIC: BA041314.D

(84) Benzo(k)fluoranthene

23.956min (-0.026) 3.01ng/ul

response 70618

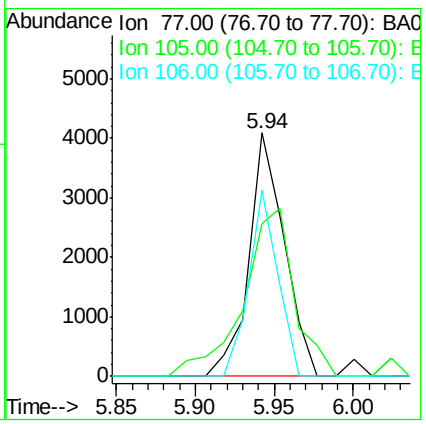
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	24.05
125.00	4.40	16.93#
0.00	0.00	0.00

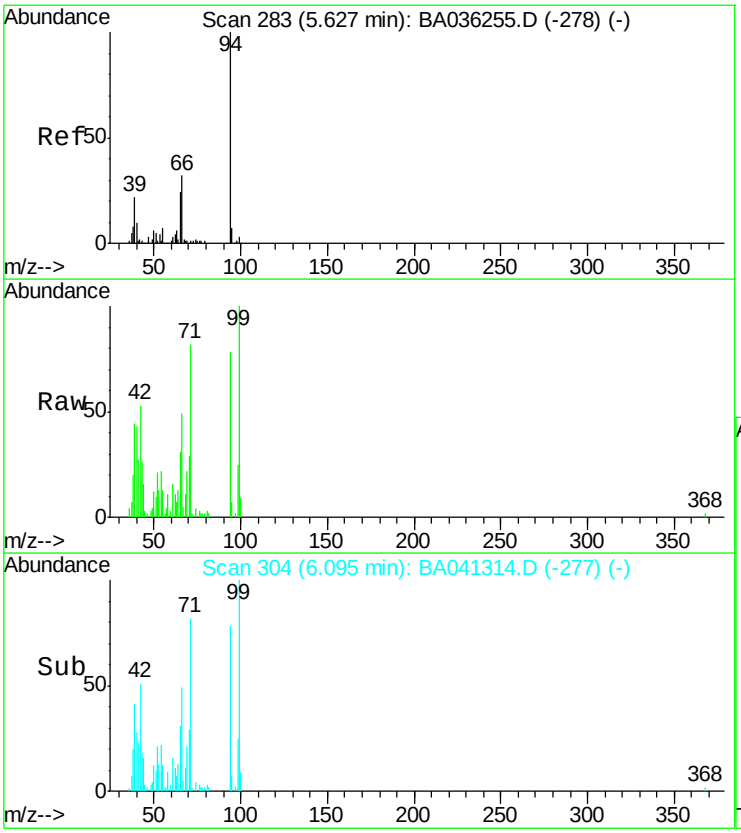


#2
Benzaldehyde
Concen: 0.98 ng/ul
RT: 5.94 min Scan# 291
Delta R.T. 0.00 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion: 77 Resp: 6378

Ion	Ratio	Lower	Upper
77	100		
105	62.9	69.6	104.4#
106	76.4	67.9	101.9

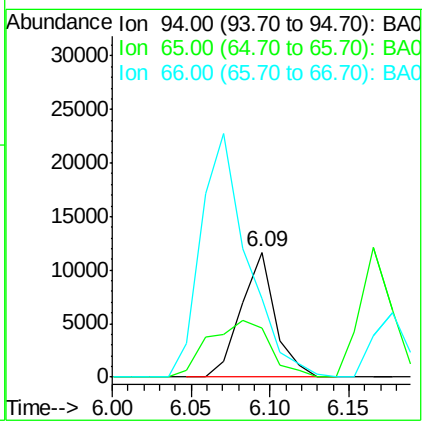


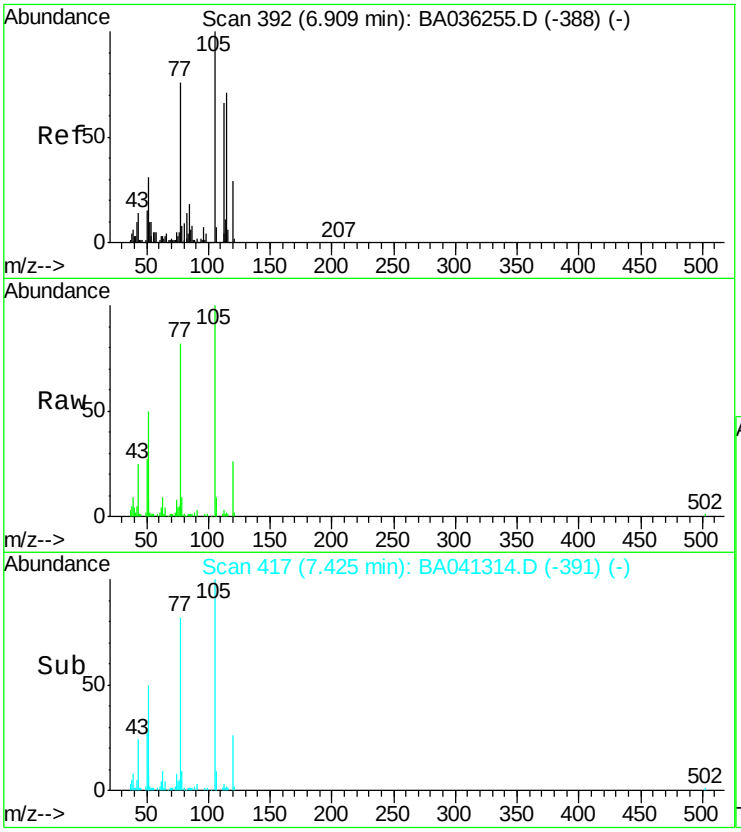


#4
Phenol
Concen: 1.10 ng/ul
RT: 6.09 min Scan# 304
Delta R.T. 0.01 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion: 94 Resp: 17456

Ion	Ratio	Lower	Upper
94	100		
65	39.5	29.0	43.6
66	62.7	53.7	80.5

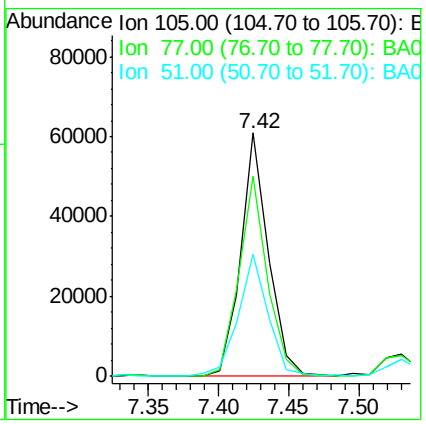


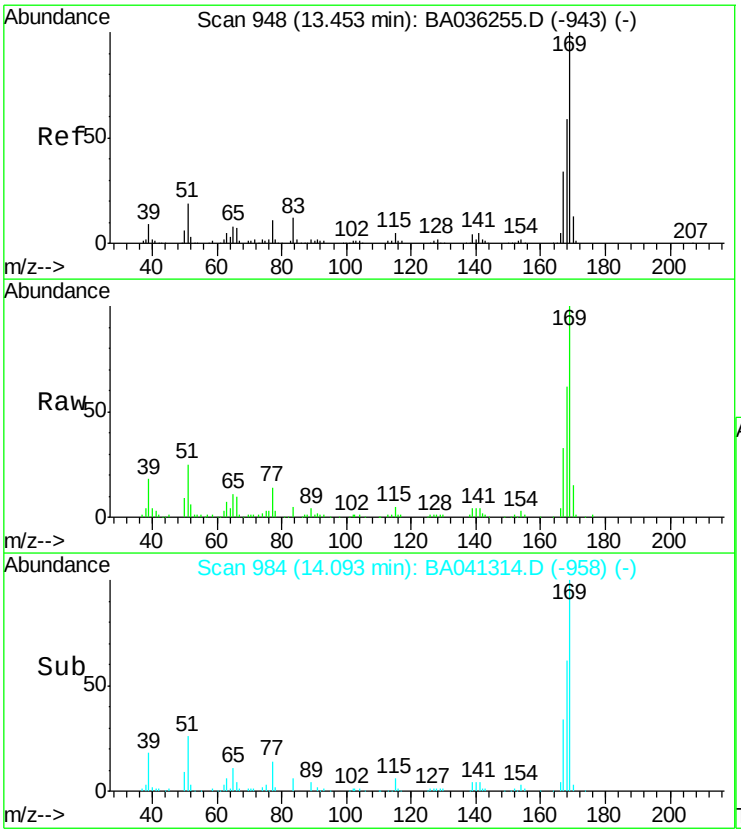


#12
Acetophenone
Concen: 4.29 ng/ul
RT: 7.42 min Scan# 417
Delta R.T. 0.00 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:105 Resp: 82995

Ion	Ratio	Lower	Upper
105	100		
77	82.0	69.4	104.2
51	49.9	42.1	63.1

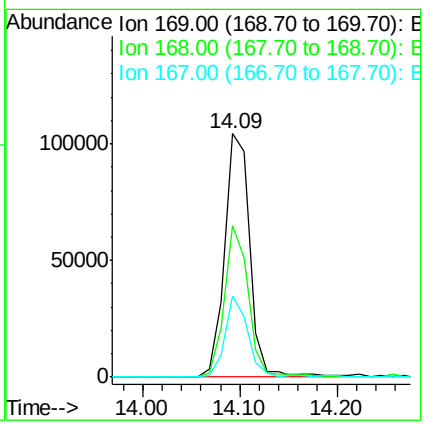


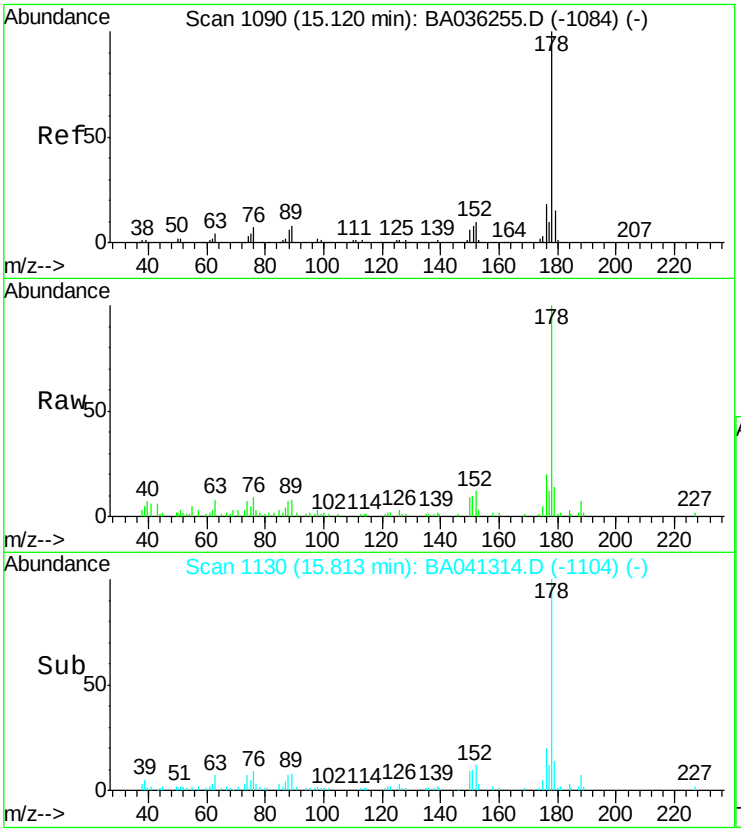


#62
N-Nitrosodiphenylamine
Concen: 7.68 ng/ul
RT: 14.09 min Scan# 984
Delta R.T. 0.01 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:169 Resp: 188064

Ion	Ratio	Lower	Upper
169	100		
168	62.2	47.8	71.6
167	33.3	23.4	35.2

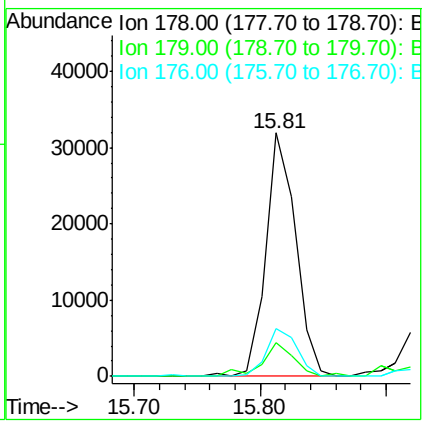


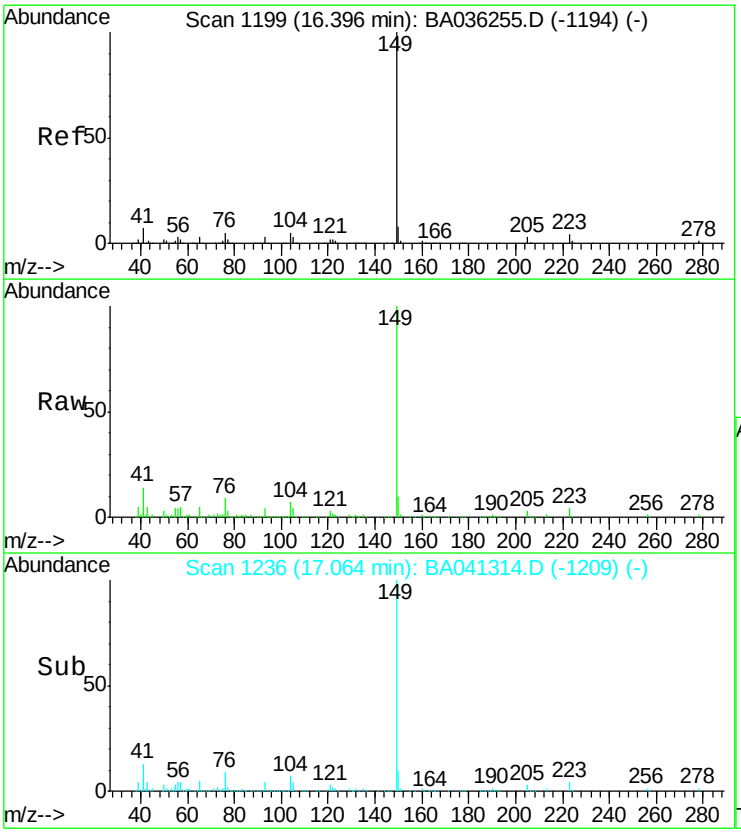


#67
Phenanthrene
Concen: 1.20 ng/ul
RT: 15.81 min Scan# 1130
Delta R.T. 0.01 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:178 Resp: 52593

Ion	Ratio	Lower	Upper
178	100		
179	14.0	12.0	18.0
176	19.6	14.8	22.2

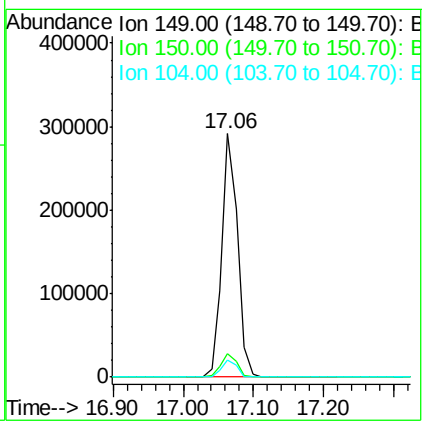


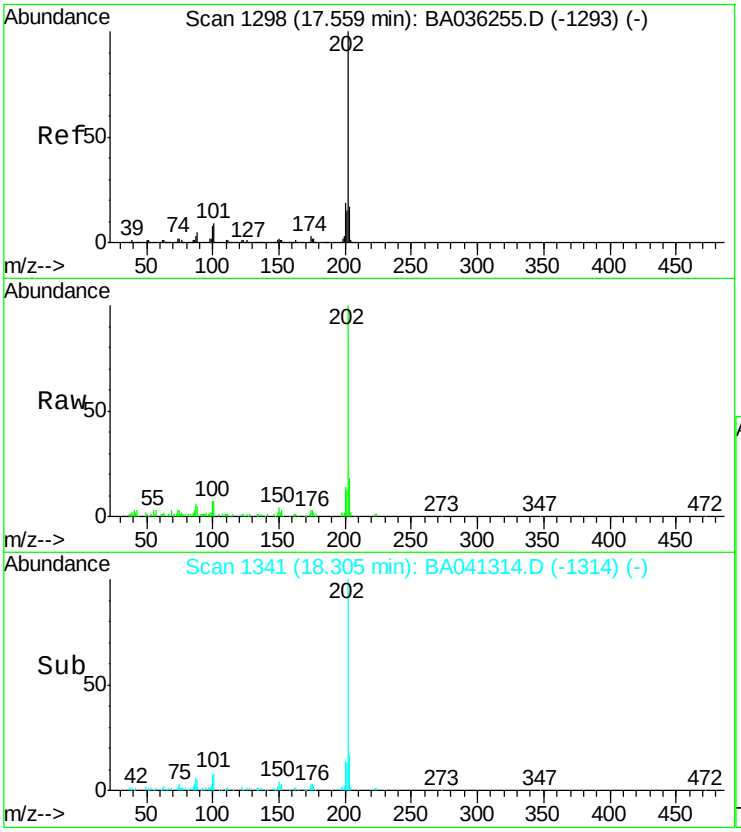


#71
Di-n-butylphthalate
Concen: 8.07 ng/ul
RT: 17.06 min Scan# 1236
Delta R.T. 0.01 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:149 Resp: 460762

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.9	11.9
104	6.8	5.6	8.4

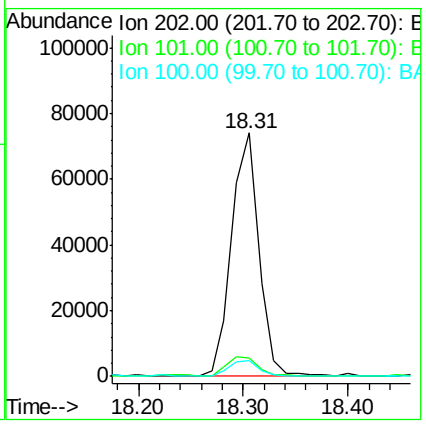


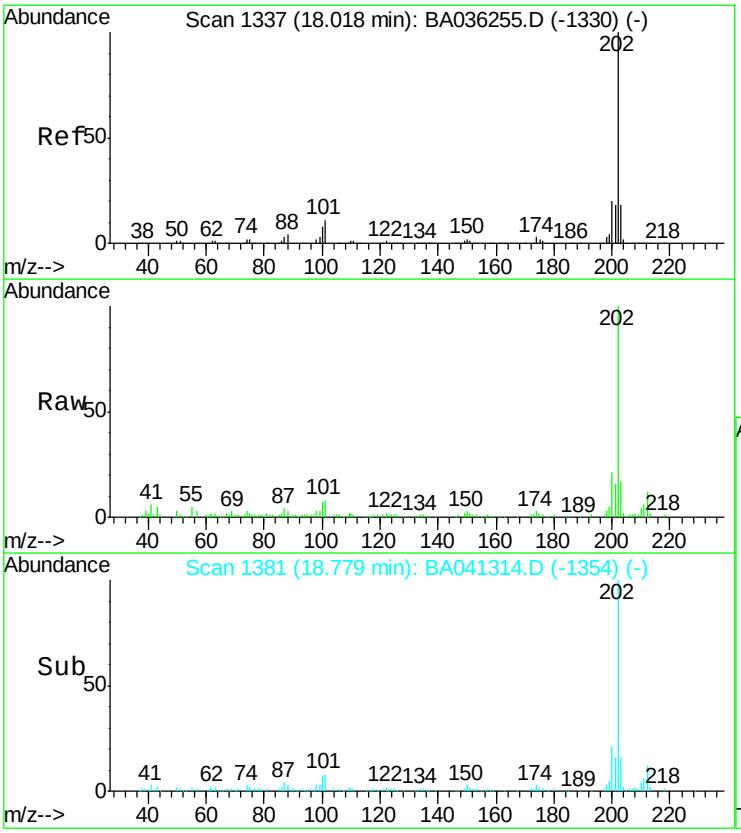


#72
Fluoranthene
Concen: 2.56 ng/ul
RT: 18.31 min Scan# 1341
Delta R.T. 0.02 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:202 Resp: 133171

Ion	Ratio	Lower	Upper
202	100		
101	7.5	2.6	4.0#
100	6.5	2.9	4.3#

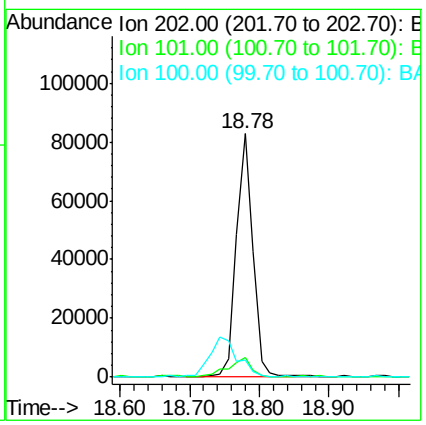


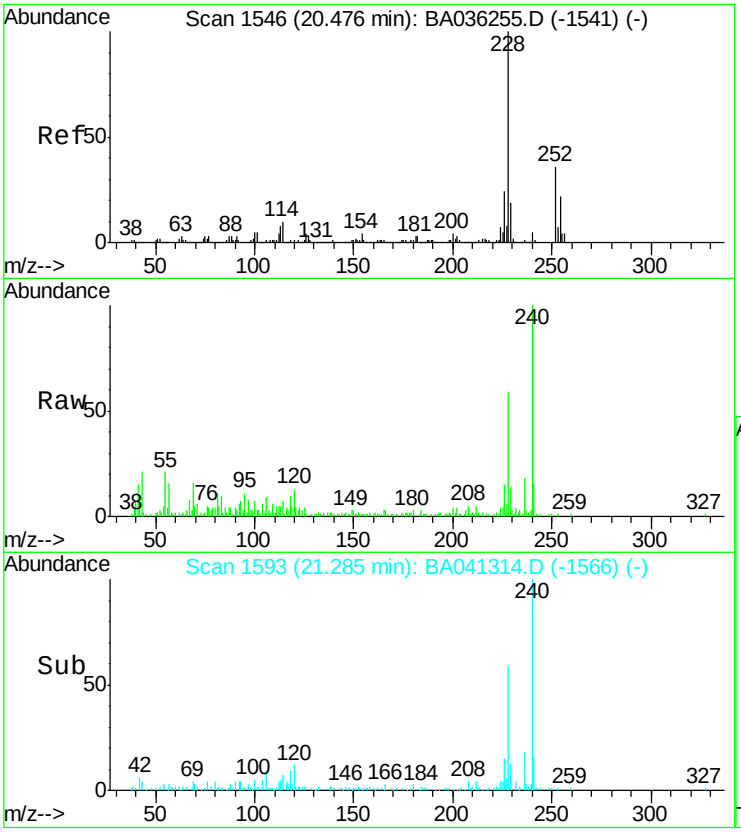


#75
Pyrene
Concen: 3.56 ng/ul
RT: 18.78 min Scan# 1381
Delta R.T. 0.02 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:202 Resp: 137685

Ion	Ratio	Lower	Upper
202	100		
101	8.0	3.5	5.3#
100	6.9	3.4	5.0#

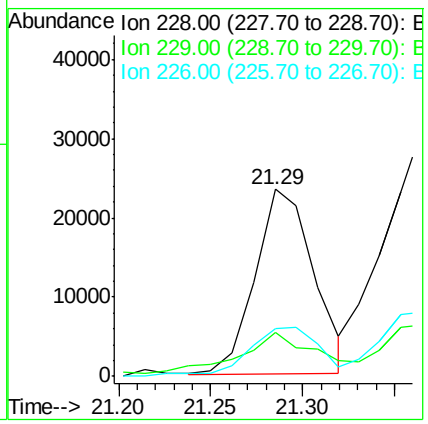


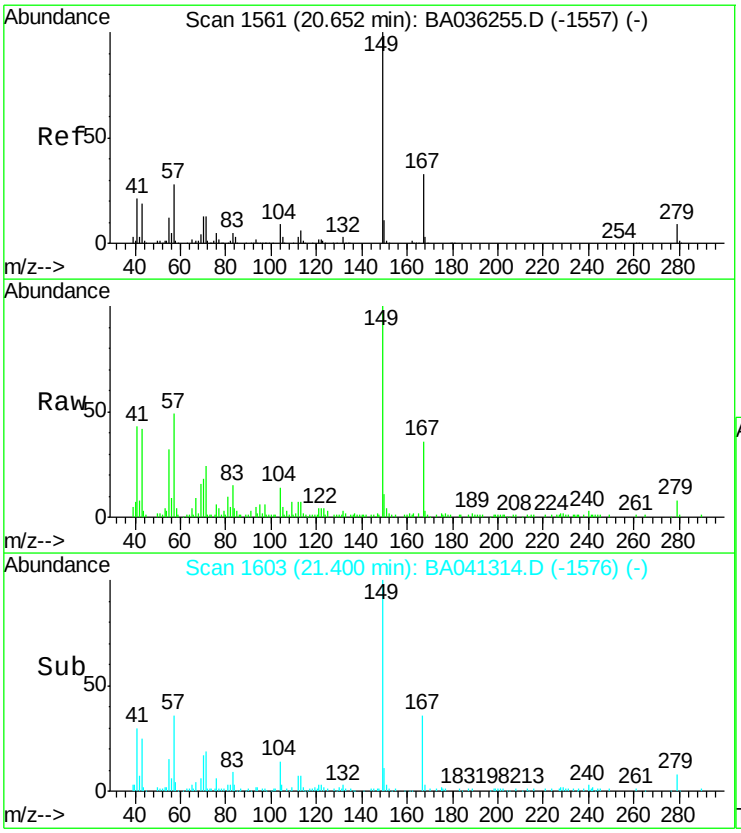


#78
Benzo(a)anthracene
Concen: 1.41 ng/ul
RT: 21.29 min Scan# 1593
Delta R.T. 0.02 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:228 Resp: 52050

Ion	Ratio	Lower	Upper
228	100		
229	23.5	15.9	23.9
226	25.7	20.2	30.2

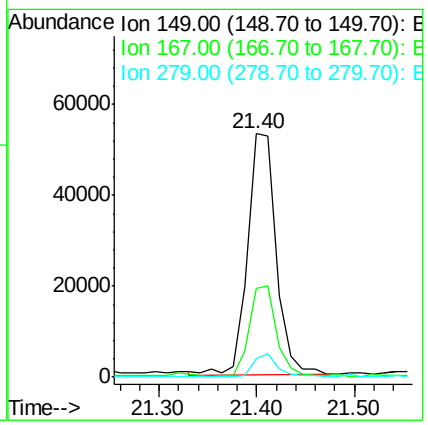


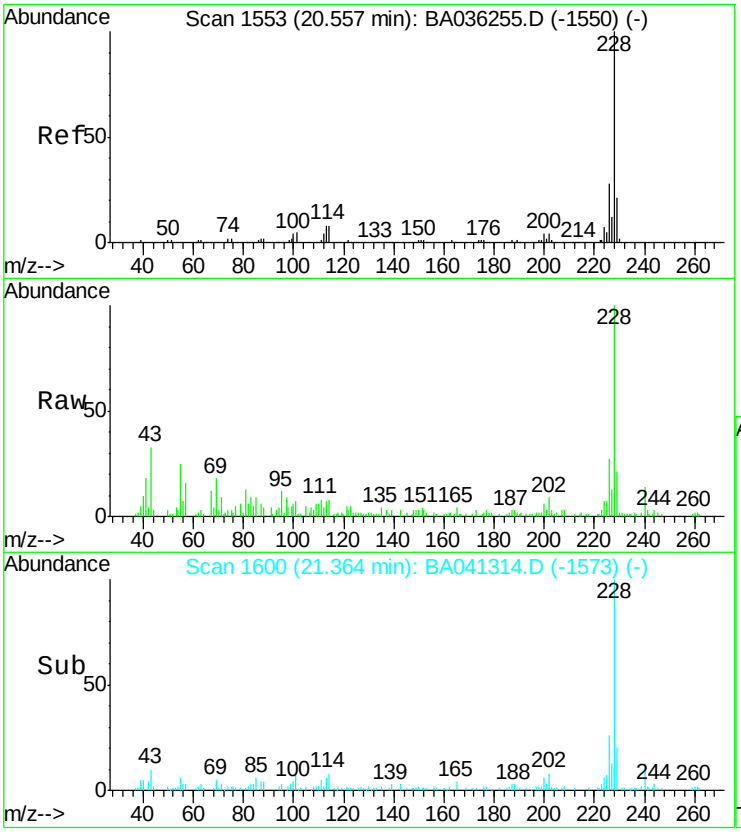


#79
Bis(2-ethylhexyl)phthalate
Concen: 5.48 ng/ul
RT: 21.40 min Scan# 1603
Delta R.T. 0.02 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:149 Resp: 107387

Ion	Ratio	Lower	Upper
149	100		
167	36.3	26.2	39.4
279	7.5	7.7	11.5#

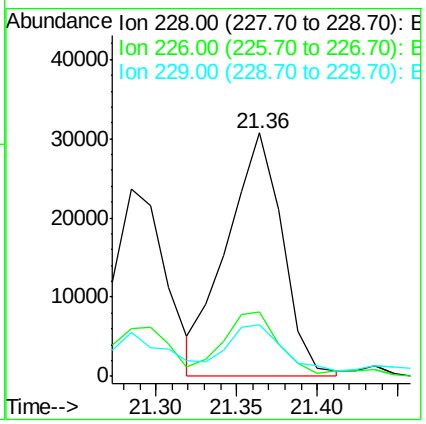


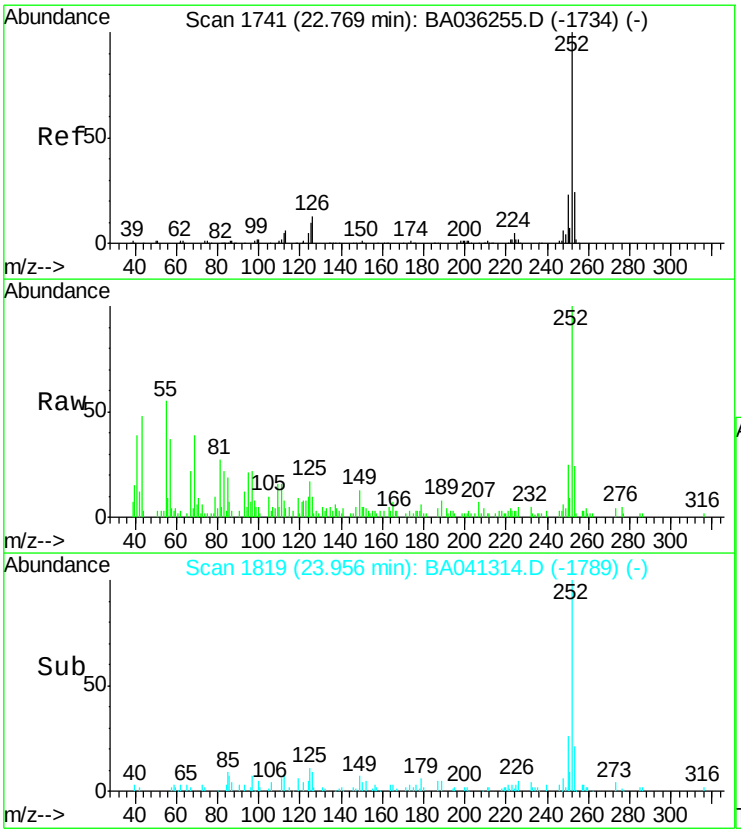


#80
Chrysene
Concen: 2.36 ng/ul
RT: 21.36 min Scan# 1600
Delta R.T. 0.02 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:228 Resp: 74224

Ion	Ratio	Lower	Upper
228	100		
226	26.6	20.6	31.0
229	21.5	14.4	21.6

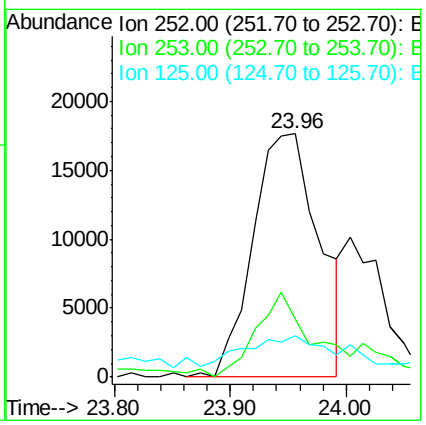


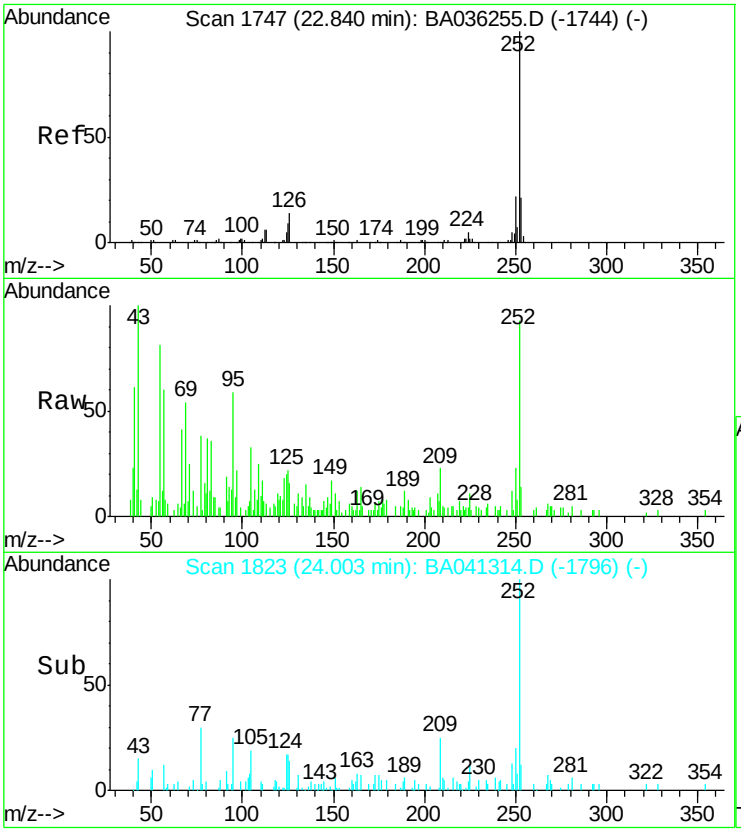


#83
Benzo(b)fluoranthene
Concen: 2.56 ng/ul
RT: 23.96 min Scan# 1819
Delta R.T. 0.06 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:252 Resp: 70618

Ion	Ratio	Lower	Upper
252	100		
253	24.1	16.2	24.2
125	16.9	4.1	6.1#

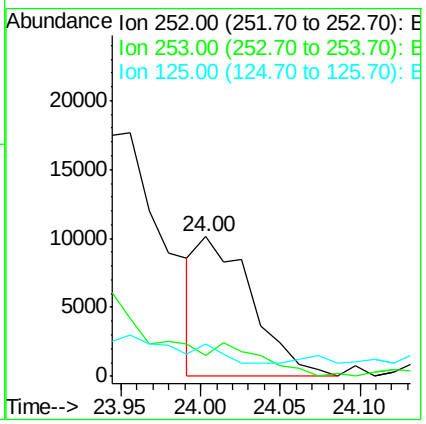


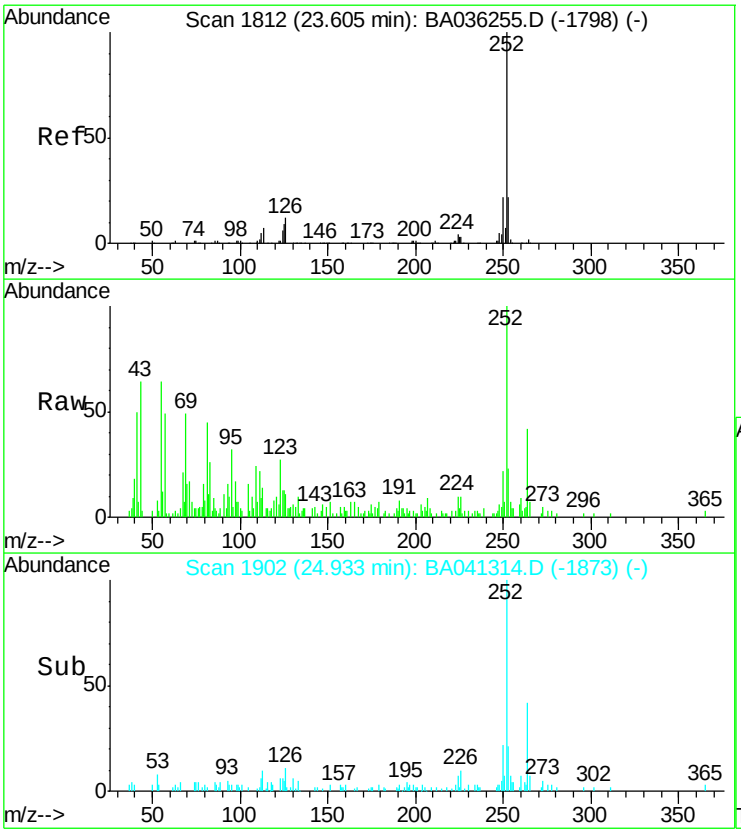


#84
Benzo(k)fluoranthene
Concen: 1.03 ng/ul m
RT: 24.00 min Scan# 1823
Delta R.T. 0.02 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:252 Resp: 24284

Ion	Ratio	Lower	Upper
252	100		
253	15.0	18.2	27.4#
125	23.4	3.5	5.3#

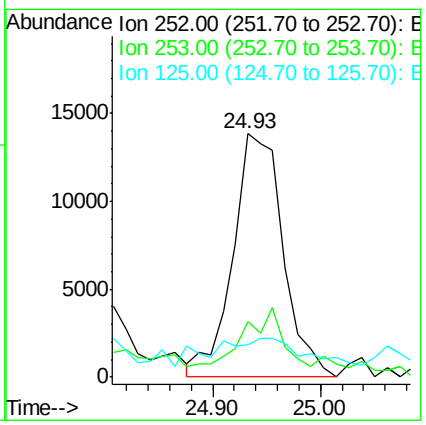




#86
Benzo(a)pyrene
Concen: 1.88 ng/ul
RT: 24.93 min Scan# 1902
Delta R.T. 0.03 min
Lab File: BA041314.D
Acq: 20 Oct 2008 7:41

Tgt Ion:252 Resp: 44821

Ion	Ratio	Lower	Upper
252	100		
253	22.6	15.1	22.7
125	13.3	3.4	5.2#



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 20 12:51:23 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	240870	20.00	ng/ul	0.01
16) Naphthalene-d8	9.10	136	786977	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.68	164	570183	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.78	188	858297	20.00	ng/ul	0.02
73) Chrysene-d12	21.32	240	697270	20.00	ng/ul	0.03
81) Perylene-d12	25.14	264	422698	20.00	ng/ul	0.07
System Monitoring Compounds						
3) Phenol-d5	6.07	99	404142	27.71	ng/ul	0.01
5) Bis-(2-Chloroethyl)ether-d	6.17	67	336334	34.02	ng/ul	0.01
7) 2-Chlorophenol-d4	6.30	132	388973	31.38	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	74714	7.55	ng/ul	0.01
17) Nitrobenzene-d5	7.71	128	232724	33.40	ng/ul	0.01
20) 2-Nitrophenol-d4	8.33	143	296456	34.57	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.80	165	417171	26.28	ng/ul	0.01
27) 4-Chloroaniline-d4	9.28	131	801	0.05	ng/ul	0.06
41) Dimethylphthalate-d6	12.14	166	1369574	36.07	ng/ul	0.02
44) Acenaphthylene-d8	12.35	160	1364418	29.55	ng/ul	0.01
49) 4-Nitrophenol-d4	12.99	143	255936	33.07	ng/ul	0.02
55) Fluorene-d10	13.76	176	1035864	33.92	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.94	200	291485	32.82	ng/ul	0.02
68) Anthracene-d10	15.90	188	1191786	29.01	ng/ul	0.03
74) Pyrene-d10	18.74	212	1120124	36.76	ng/ul	0.02
85) Benzo(a)pyrene-d12	24.88	264	595853	25.89	ng/ul	0.06
Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	6378	0.98	ng/ul#	82
4) Phenol	6.09	94	17456	1.10	ng/ul	95
12) Acetophenone	7.42	105	82995	4.29	ng/ul	95
62) N-Nitrosodiphenylamine	14.09	169	188064	7.68	ng/ul	95
67) Phenanthrene	15.81	178	52593	1.20	ng/ul	98
71) Di-n-butylphthalate	17.06	149	460762	8.07	ng/ul	100
72) Fluoranthene	18.31	202	133171	2.56	ng/ul#	89
75) Pyrene	18.78	202	137685	3.56	ng/ul#	91
78) Benzo(a)anthracene	21.29	228	52050	1.41	ng/ul	96
79) Bis(2-ethylhexyl)phthalate	21.40	149	107387	5.48	ng/ul#	94
80) Chrysene	21.36	228	74224	2.36	ng/ul	96
83) Benzo(b)fluoranthene	23.96	252	70618	2.56	ng/ul#	86
84) Benzo(k)fluoranthene	24.00	252	24284m	1.03	ng/ul	
86) Benzo(a)pyrene	24.93	252	44821	1.88	ng/ul#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.826	23	26	31	rBV	69744	207099	3.28%	0.329%
2	2.989	37	40	42	rBV	84605	178644	2.83%	0.284%
3	3.058	42	46	64	rVB2	1642467	6323346	100.00%	10.037%
4	3.435	75	78	81	rVB4	12955	27251	0.43%	0.043%
5	3.799	103	109	113	rBV2	66540	155210	2.45%	0.246%
6	3.940	119	121	123	rBV	25885	45315	0.72%	0.072%
7	4.058	129	131	135	rBV2	24688	39308	0.62%	0.062%
8	4.140	135	138	145	rVB4	25976	67630	1.07%	0.107%
9	4.258	145	148	156	rBV	127045	251968	3.98%	0.400%
10	5.718	270	272	275	rBV	17286	30300	0.48%	0.048%
11	5.942	287	291	293	rBV3	35061	74298	1.17%	0.118%
12	6.071	298	302	306	rVV	1071819	1808587	28.60%	2.871%
13	6.165	306	310	318	rVV	943795	1431113	22.63%	2.272%
14	6.295	318	321	326	rVB	1081836	1820907	28.80%	2.890%
15	6.695	352	355	362	rBV	1052788	1659504	26.24%	2.634%
16	6.966	373	378	383	rBV5	20430	85852	1.36%	0.136%
17	7.401	412	415	423	rBV2	307939	840495	13.29%	1.334%
18	7.531	423	426	429	rBV	19839	32012	0.51%	0.051%
19	7.707	437	441	444	rBV	1476152	2100178	33.21%	3.334%
20	7.908	454	458	465	rVB5	16473	52844	0.84%	0.084%
21	8.237	482	486	490	rBV2	11119	21761	0.34%	0.035%
22	8.331	490	494	497	rBV	1385220	2020445	31.95%	3.207%
23	8.390	497	499	501	rVB3	17392	23678	0.37%	0.038%
24	8.589	509	516	518	rBV	66370	170189	2.69%	0.270%
25	8.648	518	521	523	rBV3	33873	45478	0.72%	0.072%
26	8.802	530	534	537	rBV	1450682	2167438	34.28%	3.441%
27	9.097	555	559	562	rBV	1169382	1794678	28.38%	2.849%
28	9.308	574	577	580	rVV4	10332	21147	0.33%	0.034%
29	9.602	600	602	604	rBV2	17682	29880	0.47%	0.047%
30	9.779	614	617	618	rBV	19117	29035	0.46%	0.046%
31	9.803	618	619	623	rVV	33996	53901	0.85%	0.086%
32	10.284	658	660	665	rVB4	16926	30787	0.49%	0.049%
33	10.437	670	673	675	rBV2	9665	21118	0.33%	0.034%
34	10.566	682	684	688	rVB3	18915	31266	0.49%	0.050%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.071	724	727	731	rVV2	21027	43288	0.68%	0.069%
36	11.328	746	749	752	rVV2	26717	42055	0.67%	0.067%
37	11.716	779	782	786	rVB3	14108	32990	0.52%	0.052%
38	12.138	814	818	820	rVV	2194781	3397471	53.73%	5.393%
39	12.174	820	821	826	rVB4	33142	41270	0.65%	0.066%
40	12.351	833	836	840	rBV	1730106	3081208	48.73%	4.891%
41	12.680	861	864	868	rBV	1370587	2312890	36.58%	3.671%
42	12.986	885	890	893	rBV	1210872	2078433	32.87%	3.299%
43	13.116	898	901	904	rVV	150659	248754	3.93%	0.395%
44	13.174	904	906	911	rVV2	24510	44747	0.71%	0.071%
45	13.256	911	913	918	rVV5	18473	33901	0.54%	0.054%
46	13.421	923	927	934	rVB7	12172	42192	0.67%	0.067%
47	13.644	943	946	950	rBV4	23088	45611	0.72%	0.072%
48	13.762	950	956	960	rBV	2015777	3796258	60.04%	6.026%
49	13.821	960	961	964	rVV3	14058	21636	0.34%	0.034%
50	13.928	967	970	974	rVV	1066293	1930668	30.53%	3.065%
51	14.034	976	979	981	rVB2	23893	37417	0.59%	0.059%
52	14.093	981	984	987	rBV	422281	697274	11.03%	1.107%
53	14.187	987	992	995	rVV5	13548	44382	0.70%	0.070%
54	14.375	1005	1008	1011	rVB2	31624	52609	0.83%	0.084%
55	14.717	1034	1037	1039	rBV	78646	134367	2.12%	0.213%
56	14.894	1048	1052	1056	rBV6	11328	32580	0.52%	0.052%
57	15.129	1068	1072	1073	rBV3	17235	36526	0.58%	0.058%
58	15.259	1079	1083	1084	rBV4	12808	23449	0.37%	0.037%
59	15.306	1085	1087	1089	rVV3	19809	28264	0.45%	0.045%
60	15.365	1089	1092	1093	rVB2	15943	27290	0.43%	0.043%
61	15.647	1114	1116	1120	rBV3	65945	128323	2.03%	0.204%
62	15.718	1120	1122	1123	rBV	18569	27893	0.44%	0.044%
63	15.777	1123	1127	1129	rBV	1234245	2240822	35.44%	3.557%
64	15.813	1129	1130	1133	rVB	92139	113168	1.79%	0.180%
65	15.896	1133	1137	1140	rBV	1765849	3230765	51.09%	5.128%
66	16.037	1146	1149	1153	rVB5	18778	37736	0.60%	0.060%
67	16.155	1156	1159	1161	rBV3	13881	28369	0.45%	0.045%
68	16.344	1173	1175	1177	rBV3	14990	23362	0.37%	0.037%
69	16.427	1181	1182	1189	rVB6	14908	31857	0.50%	0.051%
70	16.544	1189	1192	1194	rBV4	37994	68750	1.09%	0.109%
71	16.591	1194	1196	1199	rVB	127353	190963	3.02%	0.303%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	16.650	1199	1201	1205	rVB3	12252	23625	0.37%	0.038%
73	16.756	1208	1210	1214	rVB5	18969	38271	0.61%	0.061%
74	16.827	1214	1216	1218	rBV3	18782	37172	0.59%	0.059%
75	16.887	1218	1221	1224	rVB2	29118	49319	0.78%	0.078%
76	16.946	1224	1226	1231	rBV4	27082	42314	0.67%	0.067%
77	17.064	1231	1236	1242	rBV2	652211	1721778	27.23%	2.733%
78	17.336	1255	1259	1262	rVV	423733	722709	11.43%	1.147%
79	17.396	1262	1264	1266	rVV3	19020	31692	0.50%	0.050%
80	17.443	1266	1268	1274	rVB6	49275	127238	2.01%	0.202%
81	17.678	1286	1288	1295	rBV7	13361	49956	0.79%	0.079%
82	17.832	1299	1301	1305	rBV5	15707	42102	0.67%	0.067%
83	17.915	1305	1308	1311	rVV	32042	66335	1.05%	0.105%
84	17.986	1312	1314	1317	rVB3	18299	32028	0.51%	0.051%
85	18.044	1317	1319	1323	rBV5	11324	29539	0.47%	0.047%
86	18.222	1330	1334	1338	rVV4	82477	345247	5.46%	0.548%
87	18.305	1338	1341	1344	rVB	179032	356828	5.64%	0.566%
88	18.495	1355	1357	1361	rVB5	25941	52908	0.84%	0.084%
89	18.590	1361	1365	1370	rBV8	38293	108330	1.71%	0.172%
90	18.672	1370	1372	1374	rBV2	41461	89216	1.41%	0.142%
91	18.743	1374	1378	1384	rVV2	1520326	3389125	53.60%	5.380%
92	19.039	1401	1403	1405	rBV3	22698	44311	0.70%	0.070%
93	19.573	1445	1448	1454	rBV	220361	448425	7.09%	0.712%
94	21.107	1575	1578	1584	rBV	504966	1199322	18.97%	1.904%
95	21.319	1591	1596	1599	rBV	859806	1956645	30.94%	3.106%
96	21.400	1601	1603	1609	rVB	238850	495810	7.84%	0.787%
97	21.614	1618	1621	1624	rBV2	154118	332640	5.26%	0.528%
98	24.514	1864	1866	1871	rBV3	77575	210813	3.33%	0.335%
99	24.876	1892	1897	1908	rVB	504720	1799738	28.46%	2.857%
100	25.132	1914	1919	1927	rVB	293889	1031719	16.32%	1.638%

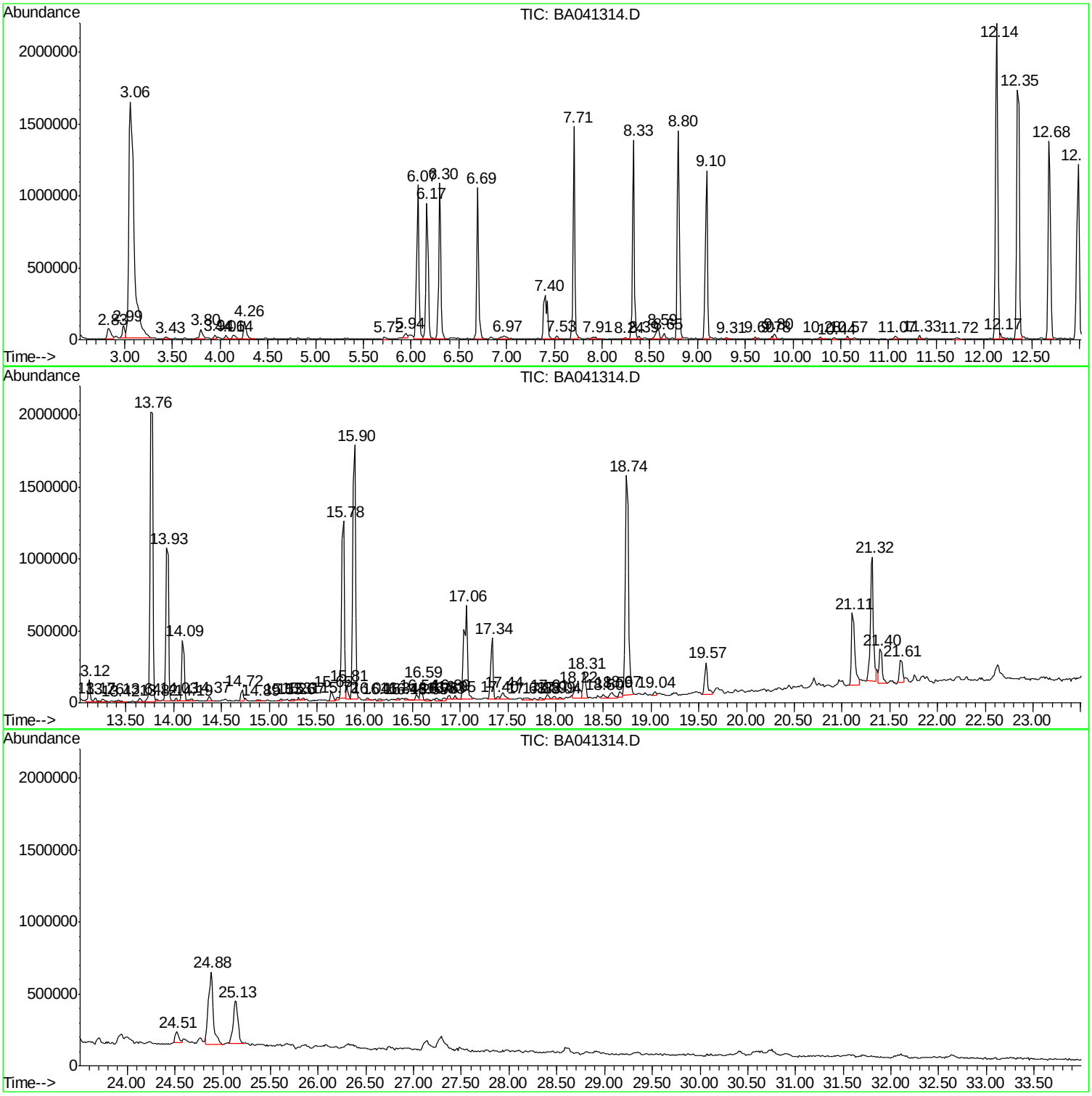
Sum of corrected areas: 62997355

LSC Report - Integrated Chromatogram

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

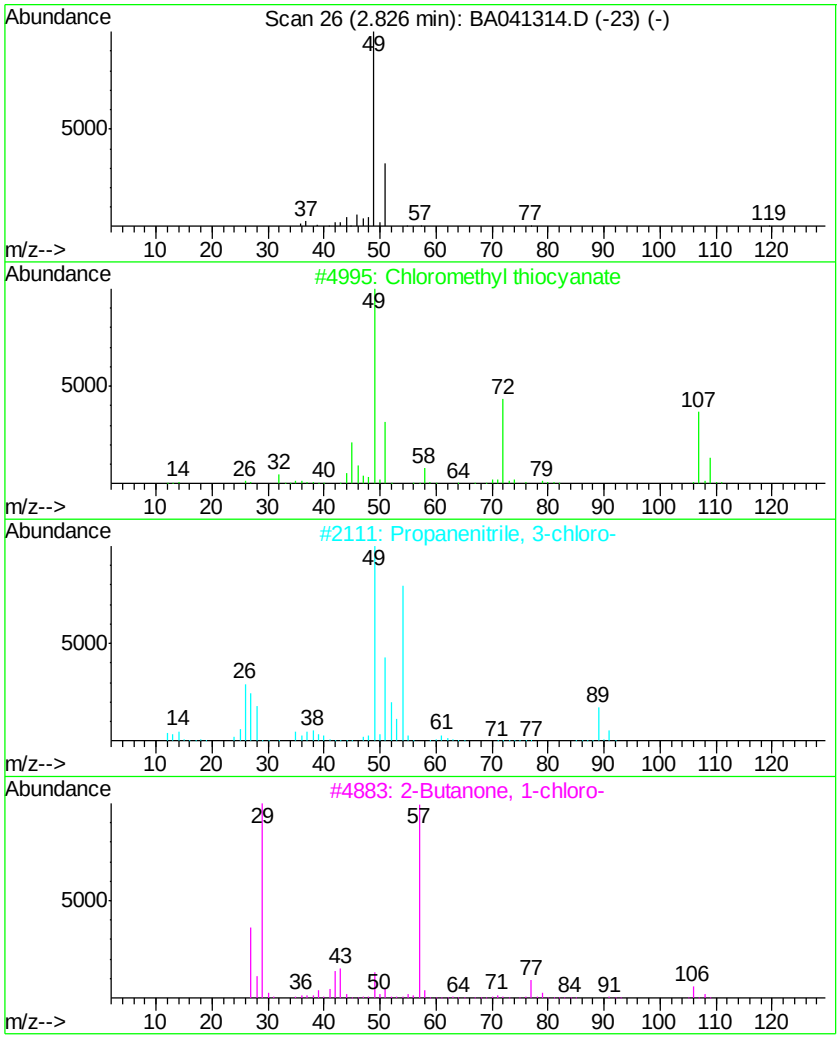
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

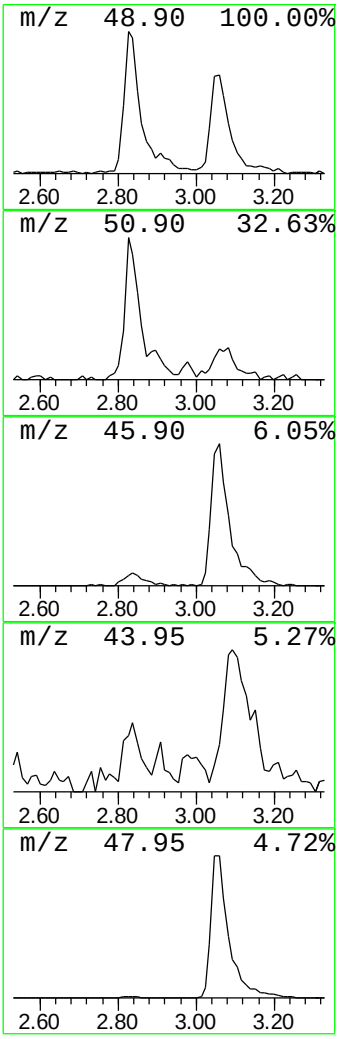
****

Peak Number 1 Chloromethyl thiocyanate Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.83	2.50 ng/ul	207099	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chloromethyl thiocyanate	107	C2H2ClNS	003268-79-9	64
2	Propanenitrile, 3-chloro-	89	C3H4ClN	000542-76-7	4
3	2-Butanone, 1-chloro-	106	C4H7ClO	000616-27-3	4
4	Chloromethanesulfonyl chloride	148	CH2Cl2O2S	003518-65-8	4
5	Methylene Chloride	84	CH2Cl2	000075-09-2	4





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

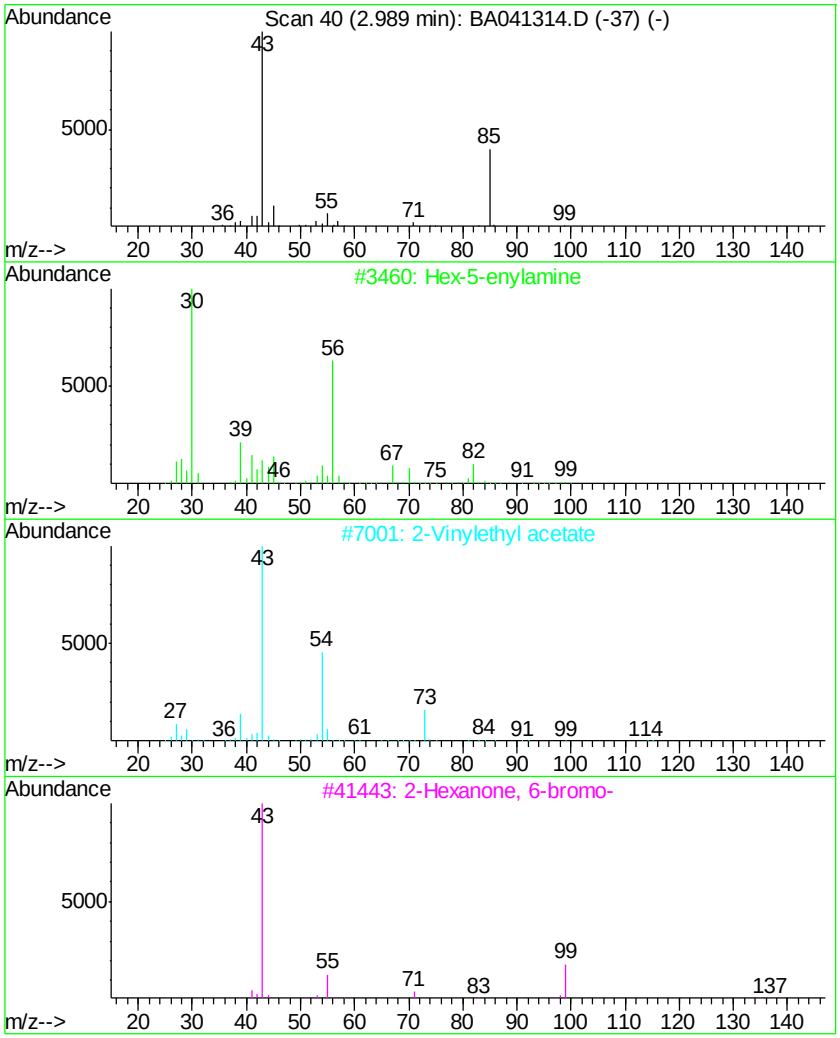
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

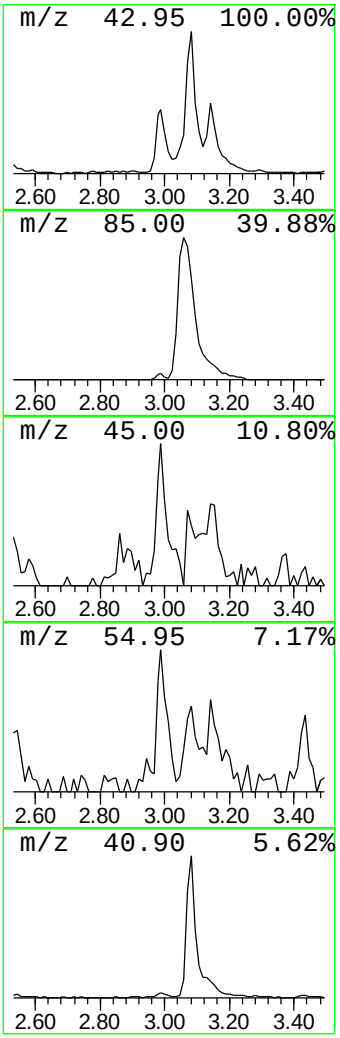
****

Peak Number 2 unknown2.99 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	2.15 ng/ul	178644	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hex-5-enylamine	99	C6H13N	034825-70-2	9
2	2-Vinylethyl acetate	114	C6H10O2	001576-84-7	9
3	2-Hexanone, 6-bromo-	178	C6H11BrO	010226-29-6	9
4	Ethanone, 1-(3-ethyloxiranyl)-	114	C6H10O2	017257-81-7	9
5	Pentane, 2-bromo-4-methyl-	164	C6H13Br	030310-22-6	9





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041314.D
Acq On : 20 Oct 2008 7:41
Operator : QM
Sample : Z4920-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

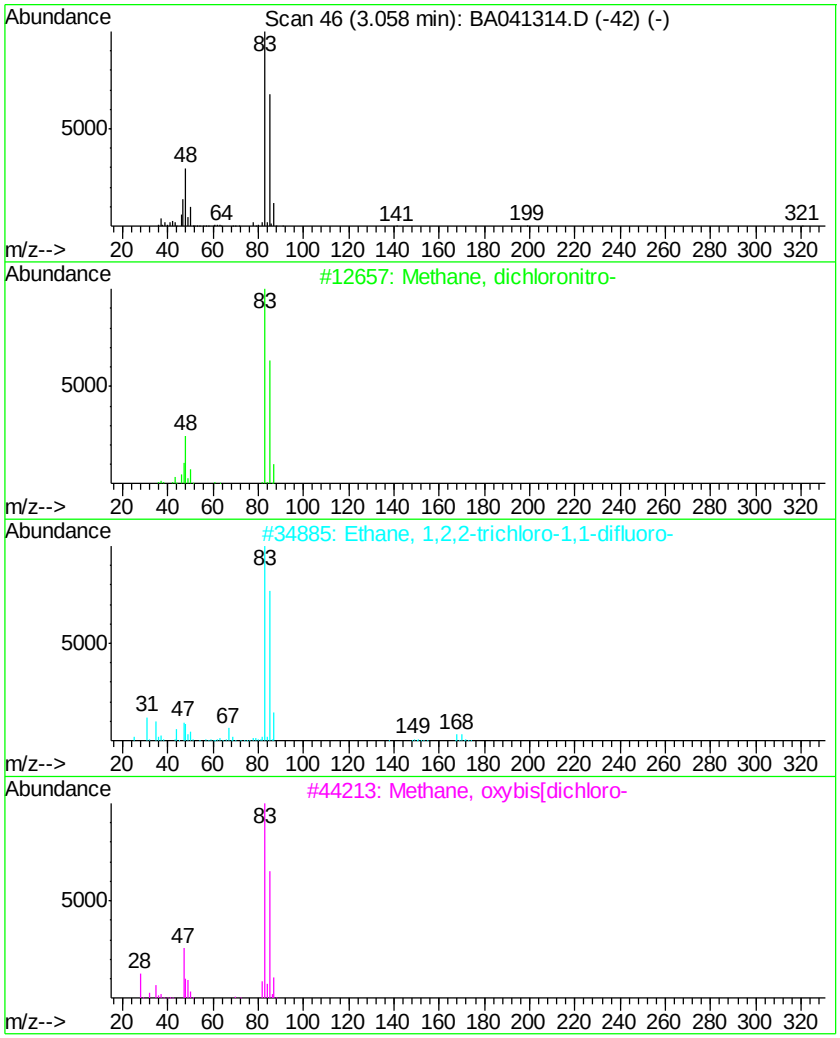
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

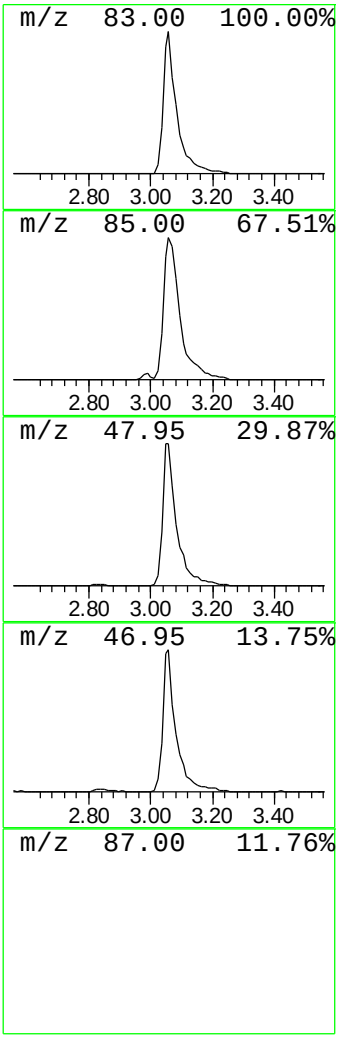
****

Peak Number 3 Methane, dichloronitro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.06	76.21 ng/ul	6323350	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, dichloronitro-	129	CHCl2NO2	007119-89-3	90
2	Ethane, 1,2,2-trichloro-1,1-difl...	168	C2HCl3F2	000354-21-2	50
3	Methane, oxybis[dichloro-	182	C2H2Cl4O	020524-86-1	9
4	Trichloromethane	118	CHCl3	000067-66-3	9
5	Trichloromethane	118	CHCl3	000067-66-3	9





1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-1A

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-12

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041310.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 35.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.30 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	56	J
108-95-2	Phenol	75	J
111-44-4	Bis(2-chloroethyl)ether	130	U
95-57-8	2-Chlorophenol	130	U
95-48-7	2-Methylphenol	130	U
108-60-1	2,2'-Oxybis(1-chloropropane)	130	U
98-86-2	Acetophenone	290	
106-44-5	4-Methylphenol	130	U
621-64-7	N-Nitroso-di-n-propylamine	130	U
67-72-1	Hexachloroethane	130	U
98-95-3	Nitrobenzene	130	U
78-59-1	Isophorone	130	U
88-75-5	2-Nitrophenol	130	U
105-67-9	2,4-Dimethylphenol	130	U
111-91-1	Bis(2-chloroethoxy)methane	130	U
120-83-2	2,4-Dichlorophenol	130	U
91-20-3	Naphthalene	130	U
106-47-8	4-Chloroaniline	130	U
87-68-3	Hexachlorobutadiene	130	U
105-60-2	Caprolactam	130	U
59-50-7	4-Chloro-3-methylphenol	130	U
91-57-6	2-Methylnaphthalene	130	U
77-47-4	Hexachlorocyclopentadiene	130	U
88-06-2	2,4,6-Trichlorophenol	130	U
95-95-4	2,4,5-Trichlorophenol	130	U
92-52-4	1,1'-Biphenyl	130	U
91-58-7	2-Chloronaphthalene	130	U
88-74-4	2-Nitroaniline	250	U
131-11-3	Dimethylphthalate	26	J
606-20-2	2,6-Dinitrotoluene	130	U
208-96-8	Acenaphthylene	130	U
99-09-2	3-Nitroaniline	250	U
83-32-9	Acenaphthene	130	U
51-28-5	2,4-Dinitrophenol	250	U
100-02-7	4-Nitrophenol	250	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-1A

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-12

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041310.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 35.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.30 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U
84-66-2	Diethylphthalate	130	U
86-73-7	Fluorene	130	U
7005-72-3	4-Chlorophenyl-phenylether	130	U
100-01-6	4-Nitroaniline	250	U
534-52-1	4,6-Dinitro-2-methylphenol	130	J
86-30-6	N-Nitrosodiphenylamine[1]	130	U
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U
101-55-3	4-Bromophenyl-phenylether	130	U
118-74-1	Hexachlorobenzene	130	U
1912-24-9	Atrazine	130	U
87-86-5	Pentachlorophenol	250	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
86-74-8	Carbazole	130	U
84-74-2	Di-n-butylphthalate	130	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	150	
85-68-7	Butylbenzylphthalate	130	U
91-94-1	3,3'-Dichlorobenzidine	130	U
56-55-3	Benzo(a)anthracene	75	J
218-01-9	Chrysene	110	J
117-81-7	Bis(2-ethylhexyl)phthalate	170	B
117-84-0	Di-n-octylphthalate	130	U
205-99-2	Benzo(b)fluoranthene	110	J
207-08-9	Benzo(k)fluoranthene	63	J
50-32-8	Benzo(a)pyrene	91	J
193-39-5	Indeno(1,2,3-cd)pyrene	56	J
53-70-3	Dibenzo(a,h)anthracene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U
58-90-2	2,3,4,6-Tetrachlorophenol	130	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC3-1A

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4920-12

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041310.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 35.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.30 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

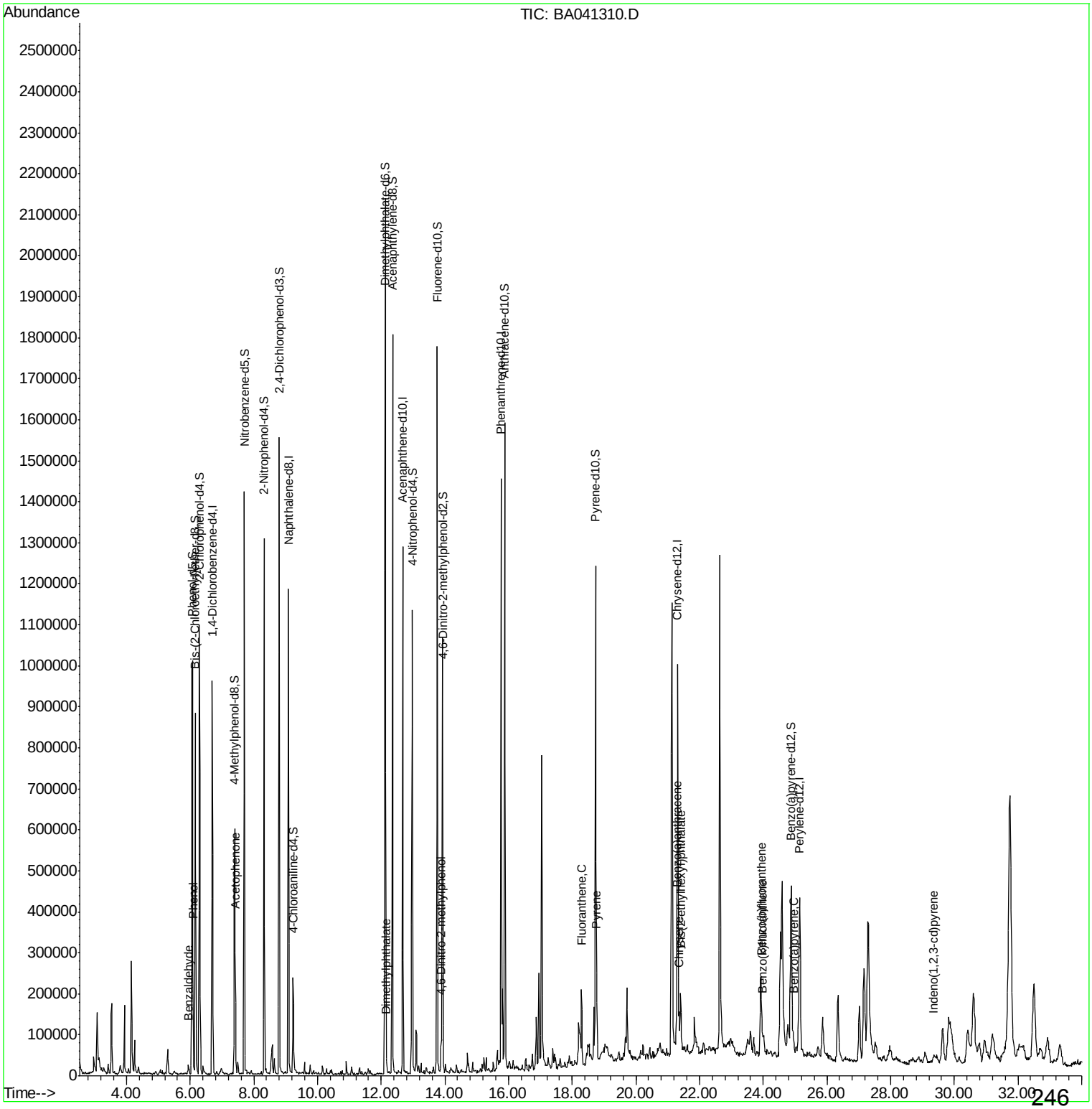
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	79-39-0	Methacrylamide	3.07	210	JN
02.	4038-04-4	1-Pentene, 3-ethyl-	3.53	220	JN
03.	70411-98-2	(E)-1,3-Butadien-1-ol	3.93	200	JN
04.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.16	340	A
05.	65-85-0	Benzoic Acid	8.58	120	JN
06.		unknown16.87	16.87	120	J
07.	2416-20-8	Hexadecenoic acid, Z-11-	16.94	200	JN
08.	57-10-3	n-Hexadecanoic acid	17.04	730	JNB
09.	120-46-7	1,3-Propanedione, 1,3-diphenyl-	18.21	180	JN
10.	57-11-4	Octadecanoic acid	18.67	120	JN
11.	638-67-5	Tricosane	19.72	130	JN
12.	629-78-7	Heptadecane	21.13	1500	JN
13.	7098-21-7	Tritetracontane	22.64	1300	JN
14.	629-92-5	Nonadecane	24.54	780	JN
15.	295-65-8	Cyclohexadecane	24.59	1000	JN
16.	629-70-9	1-Hexadecanol, acetate	25.87	280	JN
17.	67860-04-2	Oxirane, heptadecyl-	26.35	500	JN
18.		unknown27.03	27.03	390	J
19.	630-02-4	Octacosane	27.17	800	JN
20.	6971-40-0	17-Pentatriacontene	27.29	1300	JN
21.		unknown29.64	29.64	320	J
22.	1000144-58-0	14-Heptadecenal	29.83	280	JN
23.		unknown30.43	30.43	390	J
24.		unknown30.60	30.60	640	J
25.	17066-67-0	Naphthalene, decahydro-4a-methy	31.75	3300	JN
26.	1000188-72-8	2,2,6-Trimethyl-1-(2-methyl-cyc	32.50	840	JN
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

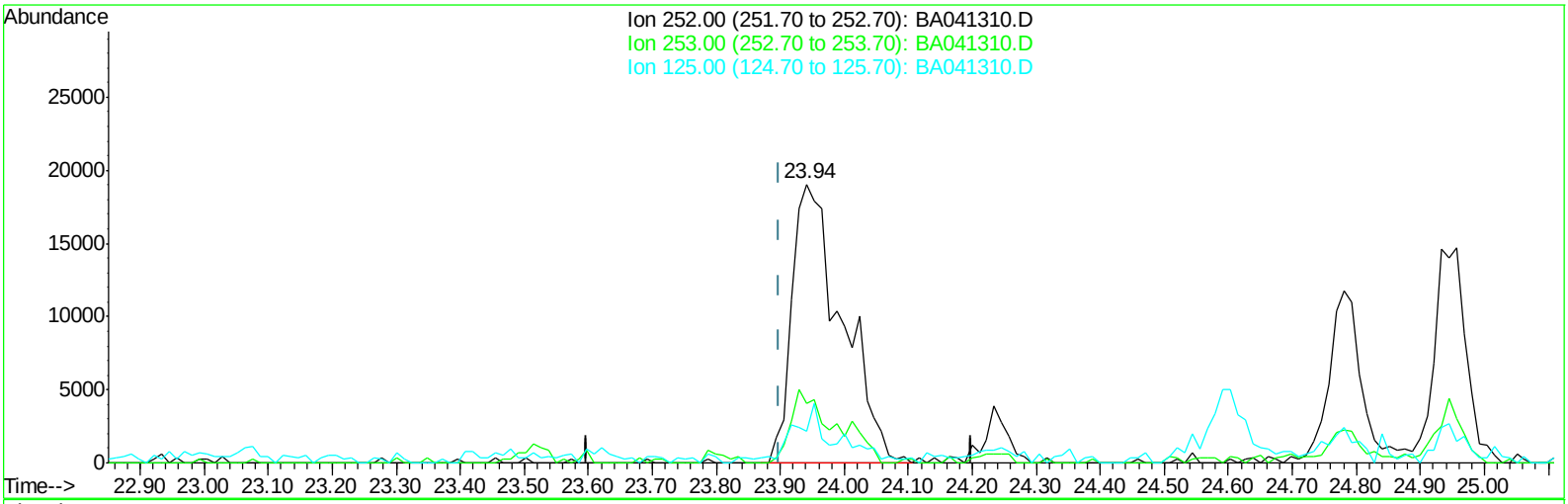
Quant Time: Oct 20 12:40:18 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

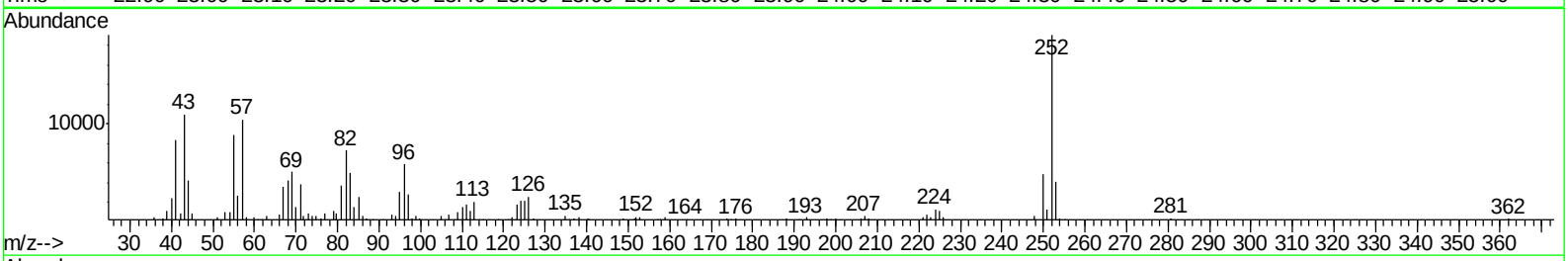


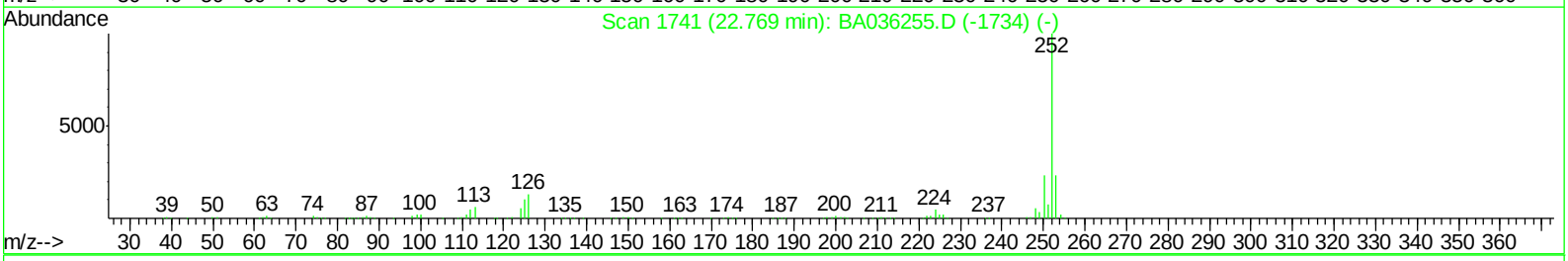
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 20 11:29:57 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041310.D

(83) Benzo(b)fluoranthene

23.942min (+0.042) 3.15ng/ul

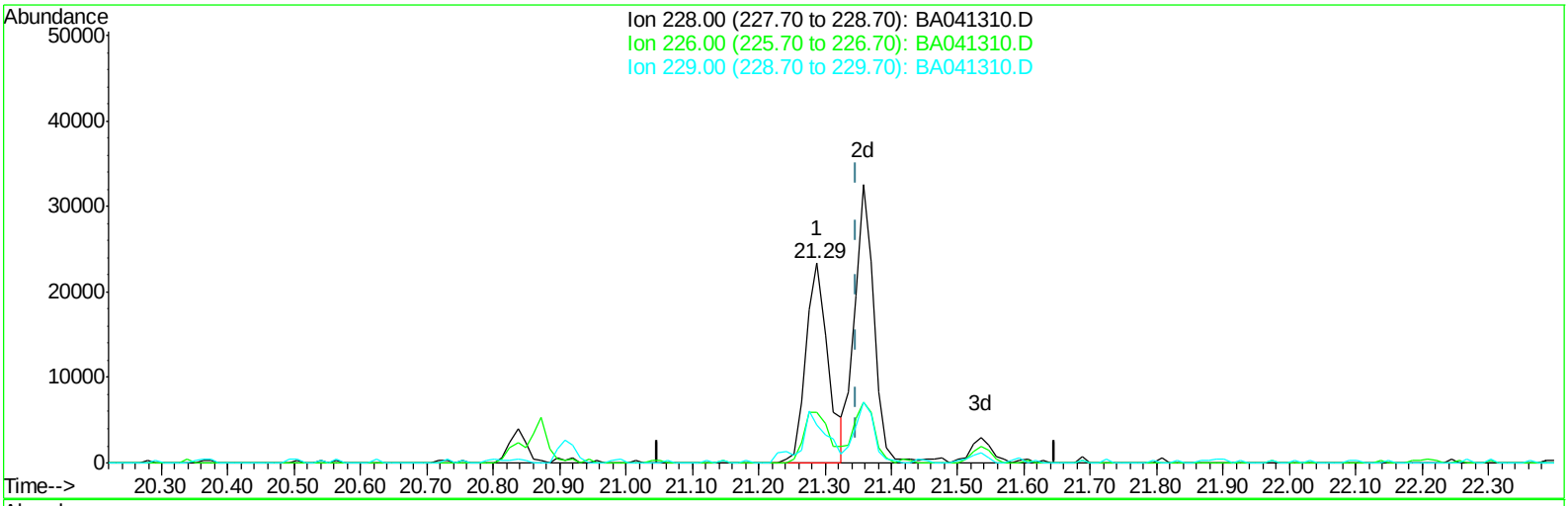
response 102740

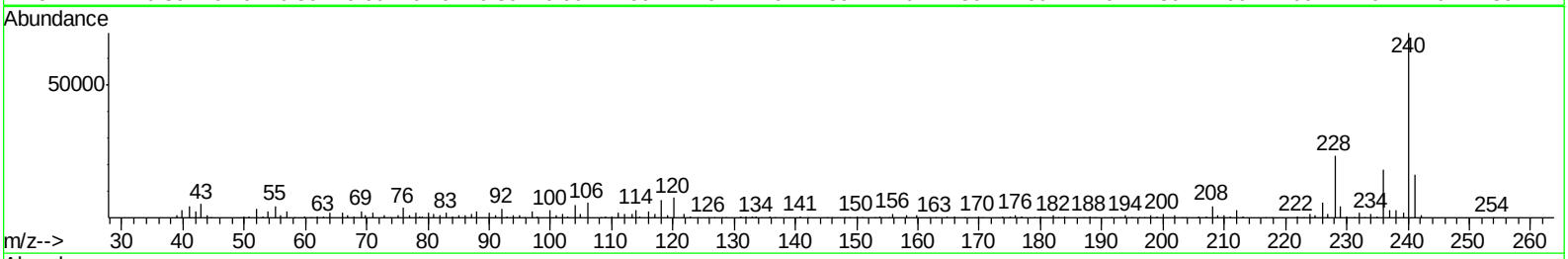
Ion	Exp%	Act%
252.00	100	100
253.00	20.20	21.44
125.00	5.10	11.24#
0.00	0.00	0.00

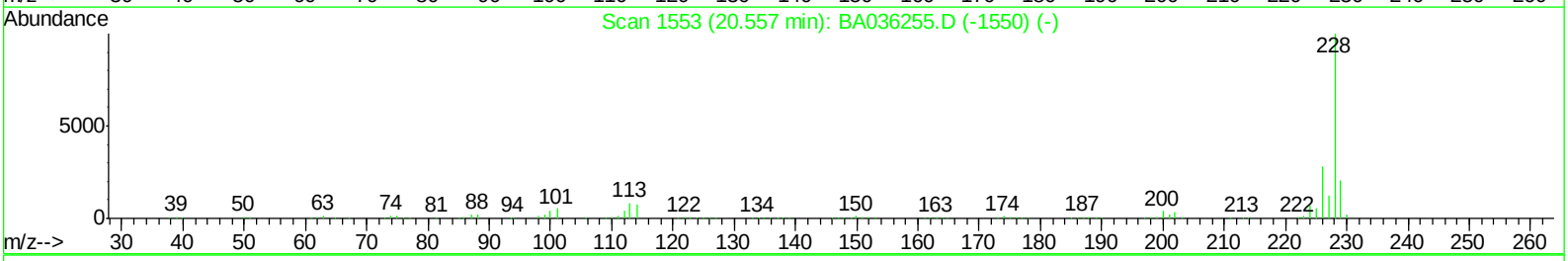
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 20 11:29:57 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041310.D

(80) Chrysene

21.288min (-0.059) 1.74ng/ul

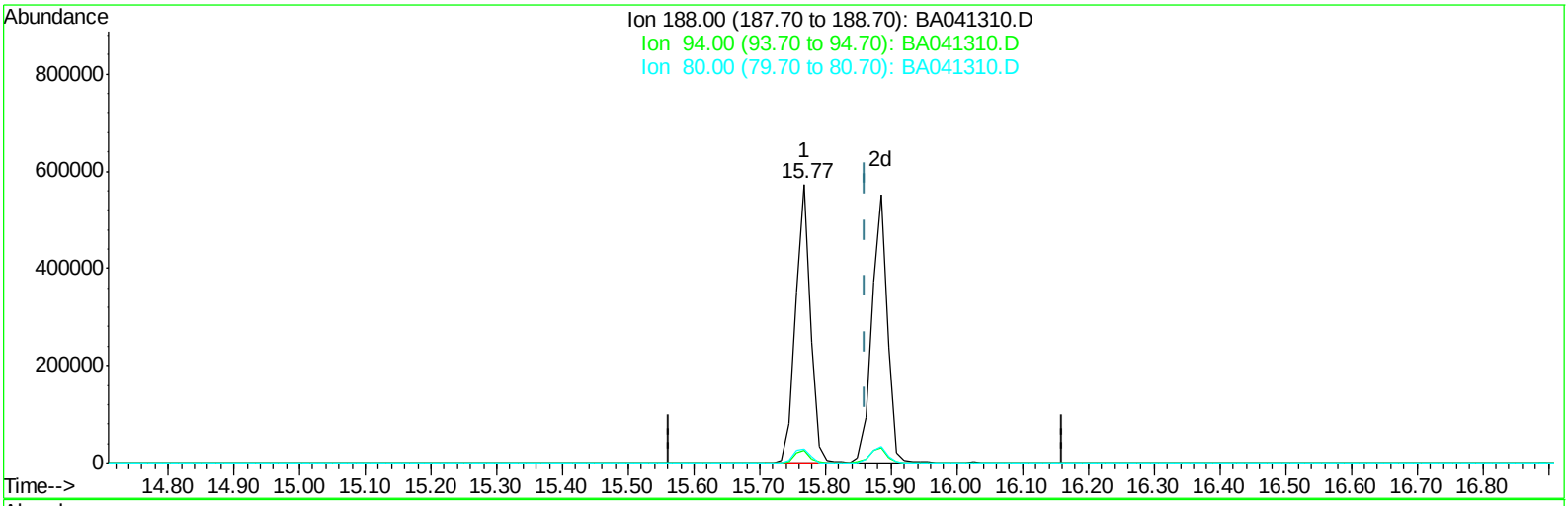
response 53726

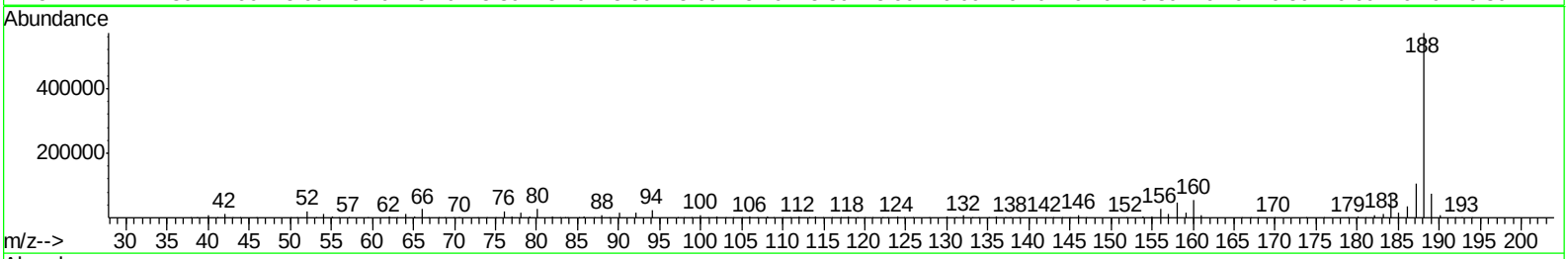
Ion	Exp%	Act%
228.00	100	100
226.00	25.80	25.33
229.00	18.00	19.25
0.00	0.00	0.00

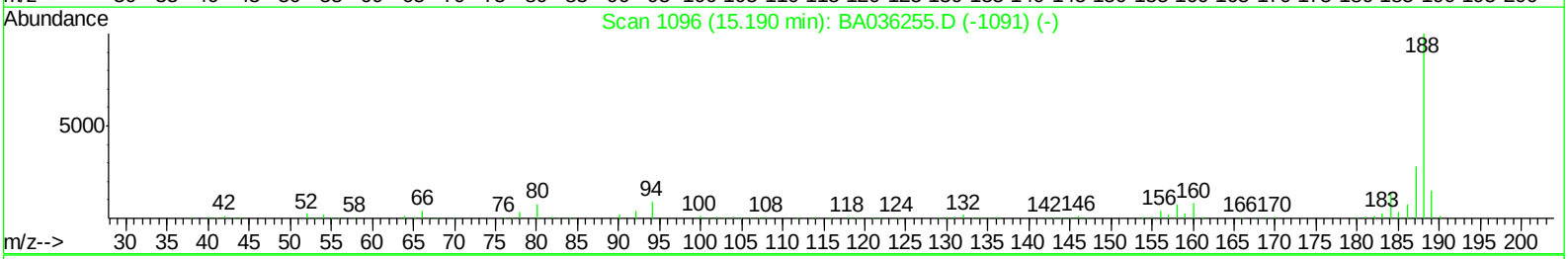
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 20 11:29:57 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041310.D

(68) Anthracene-d10 (S)

15.768min (-0.094) 20.89ng/ul

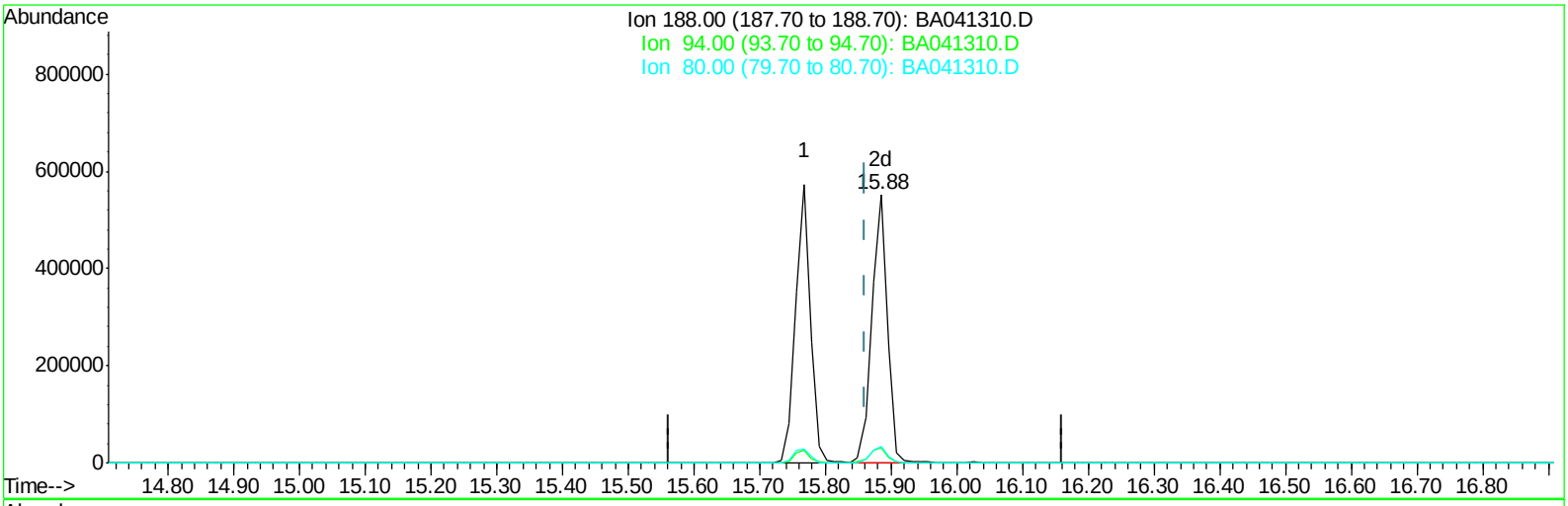
response 912754

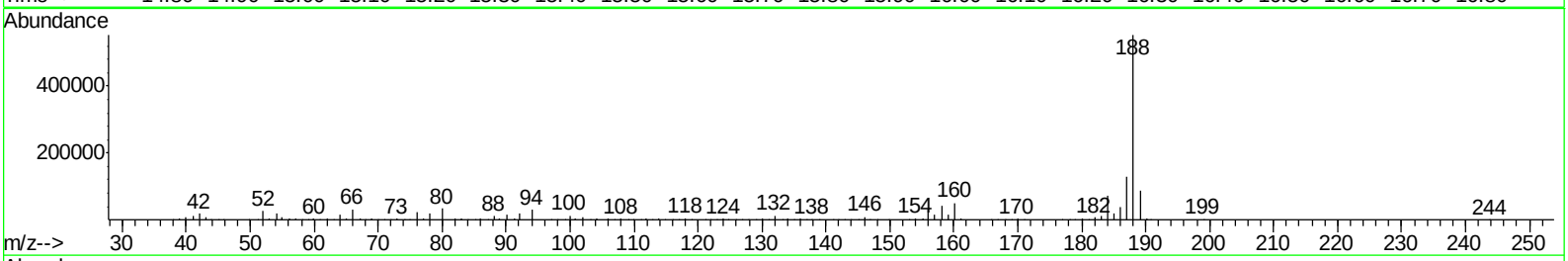
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	4.48
80.00	4.20	4.96
0.00	0.00	0.00

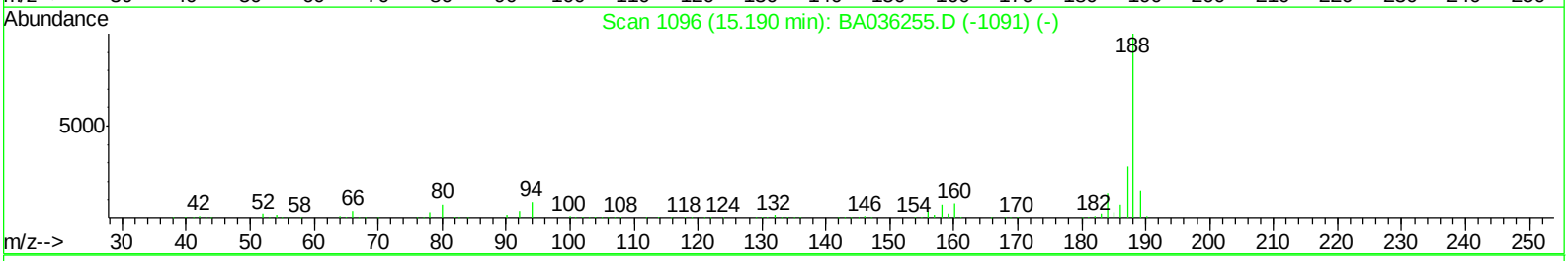
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 20 11:29:57 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041310.D

(68) Anthracene-d10 (S)

15.885min (+0.023) 21.13ng/ul m

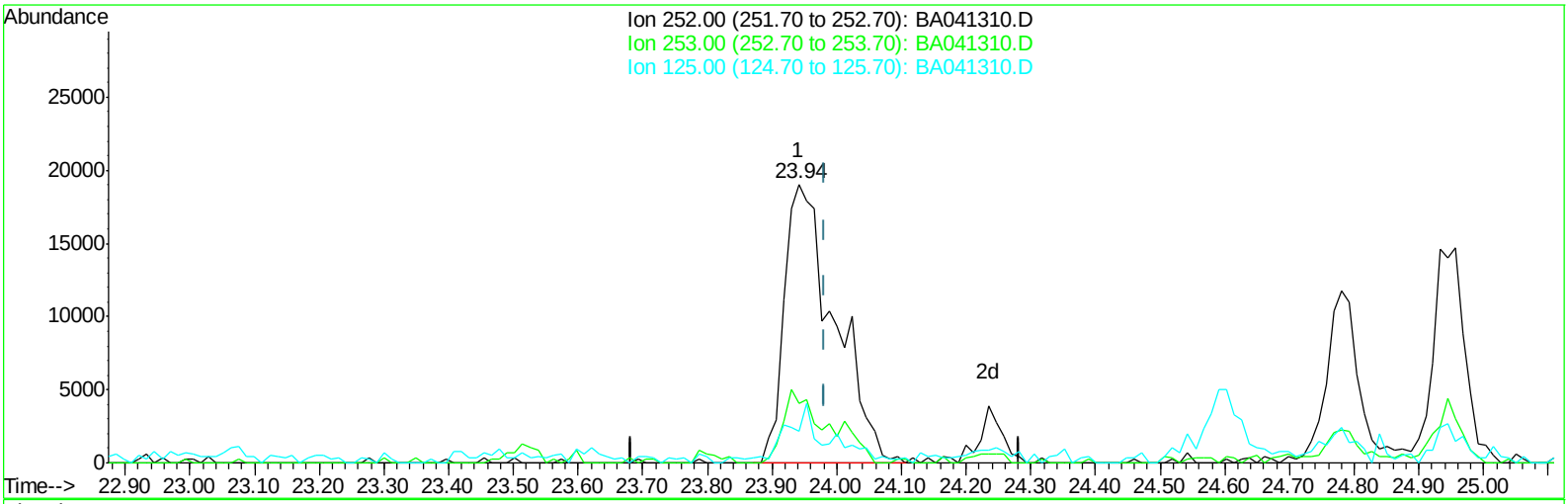
response 923154

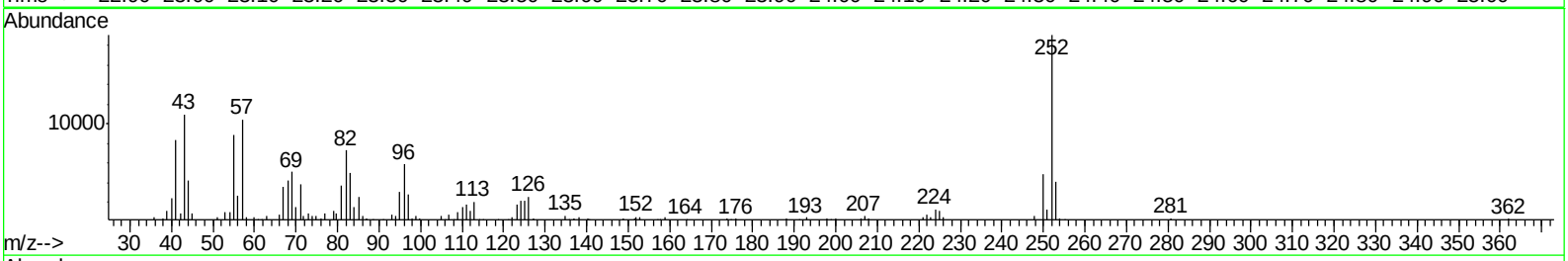
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	5.48#
80.00	4.20	5.92#
0.00	0.00	0.00

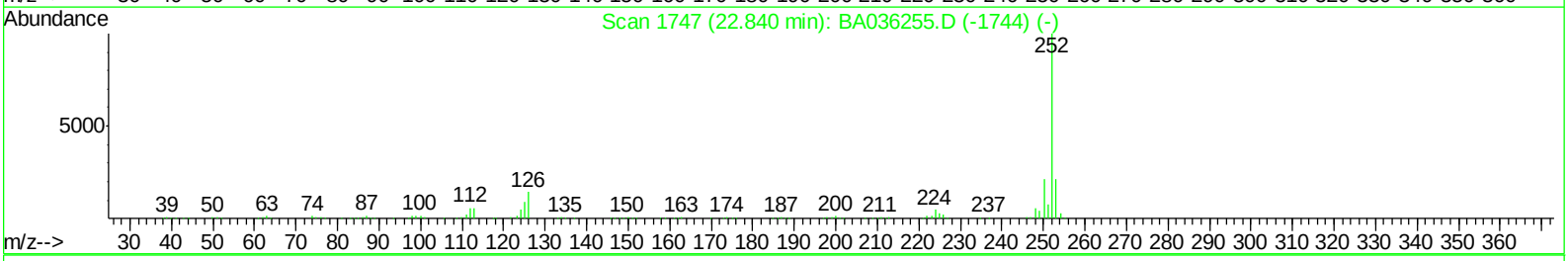
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 20 11:29:57 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







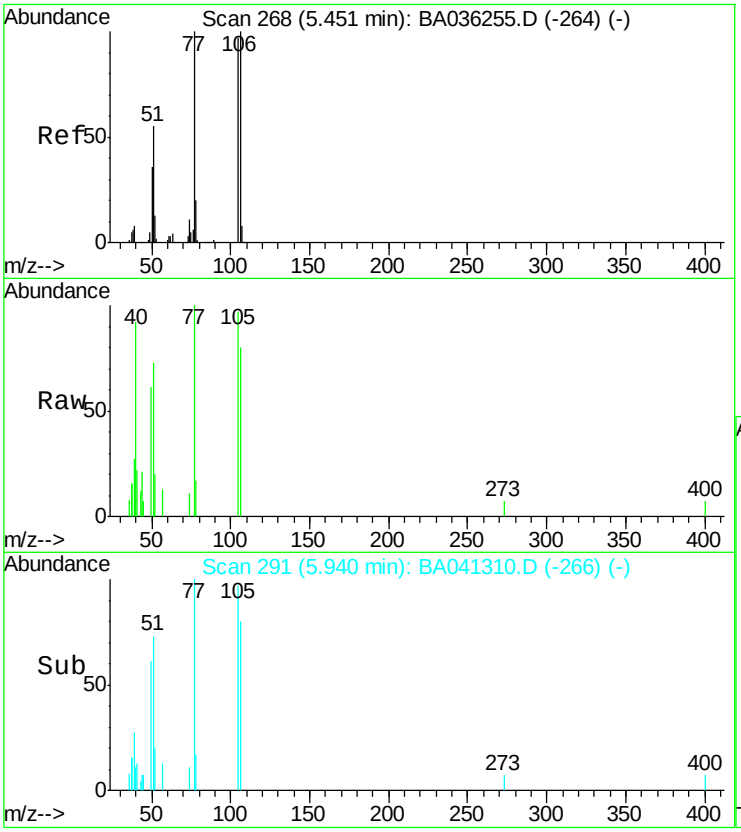
TIC: BA041310.D

(84) Benzo(k)fluoranthene

23.942min (-0.041) 3.71ng/ul

response 102740

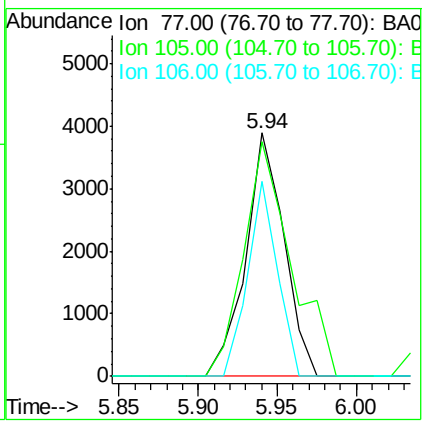
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	21.44
125.00	4.40	11.24#
0.00	0.00	0.00

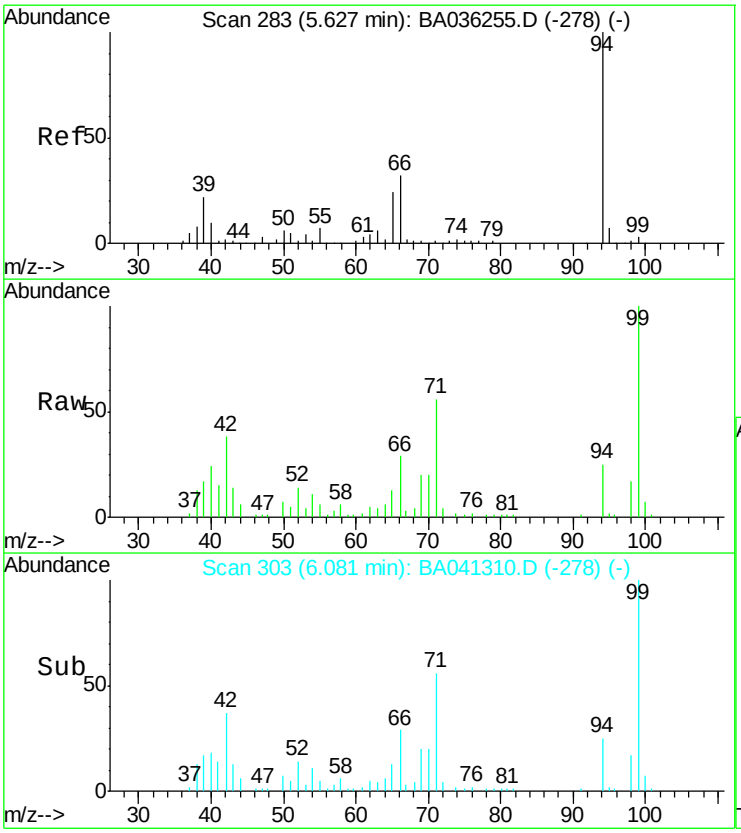


#2
Benzaldehyde
Concen: 1.10 ng/ul
RT: 5.94 min Scan# 291
Delta R.T. -0.00 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion: 77 Resp: 6556

Ion	Ratio	Lower	Upper
77	100		
105	96.6	69.6	104.4
106	80.0	67.9	101.9

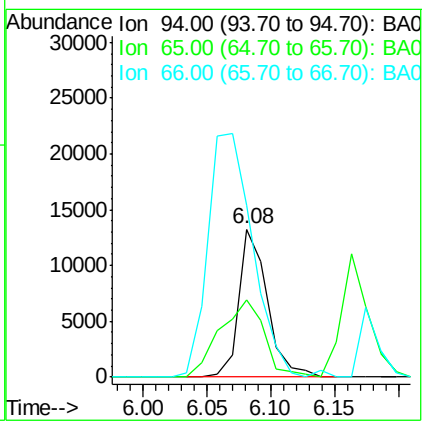


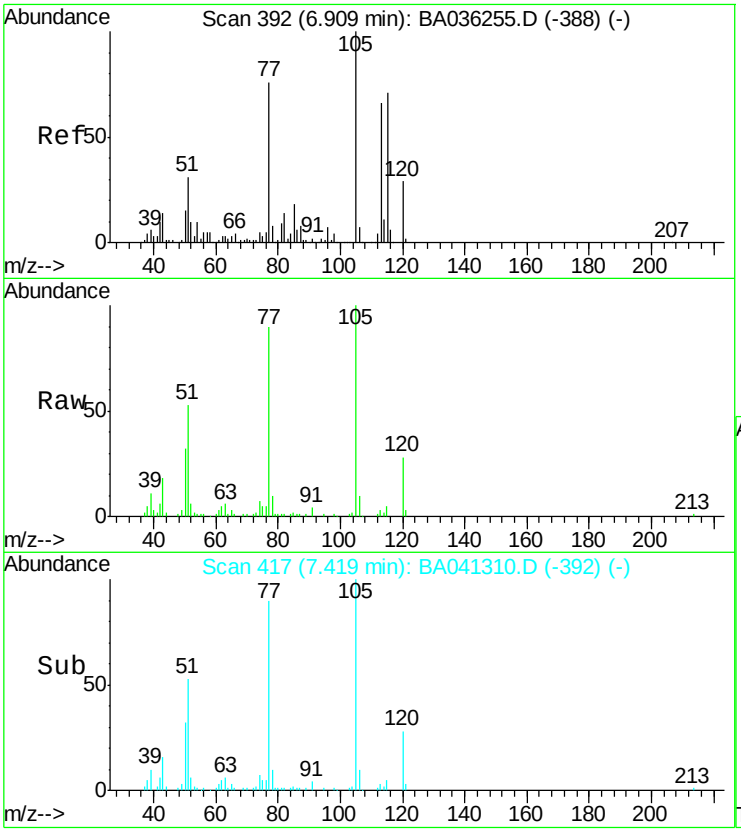


#4
Phenol
Concen: 1.46 ng/ul
RT: 6.08 min Scan# 303
Delta R.T. -0.00 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion: 94 Resp: 21110

Ion	Ratio	Lower	Upper
94	100		
65	52.2	29.0	43.6#
66	116.4	53.7	80.5#

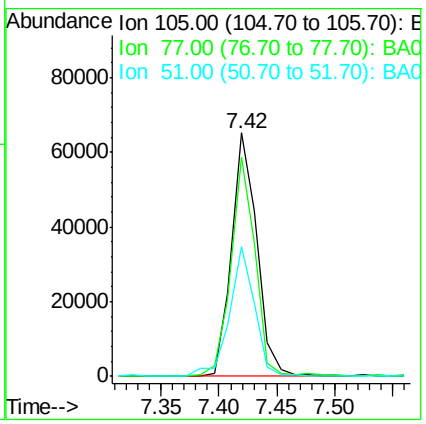


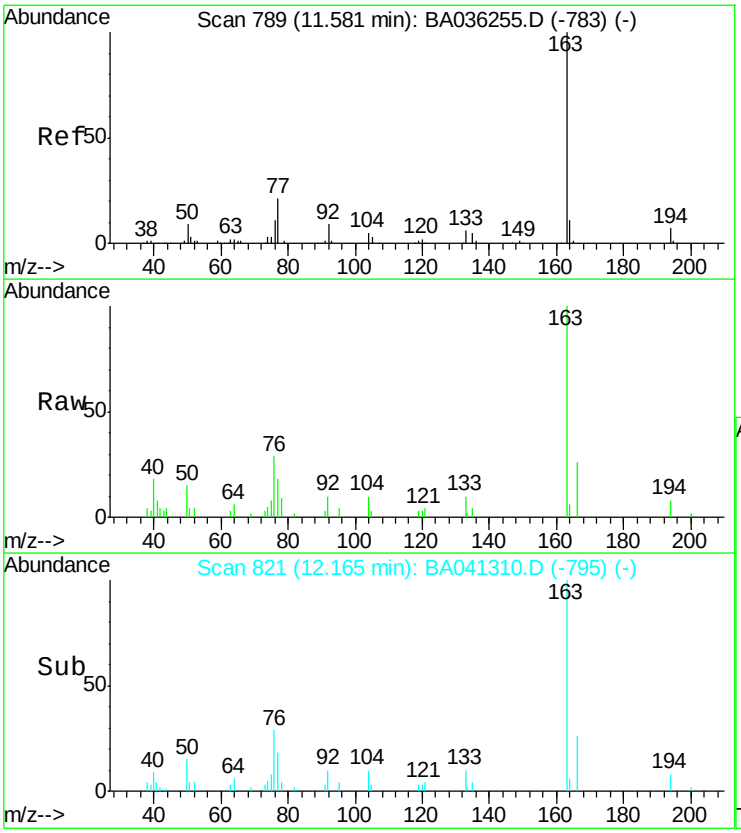


#12
Acetophenone
Concen: 5.73 ng/ul
RT: 7.42 min Scan# 417
Delta R.T. -0.00 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:105 Resp: 101132

Ion	Ratio	Lower	Upper
105	100		
77	90.2	69.4	104.2
51	53.4	42.1	63.1

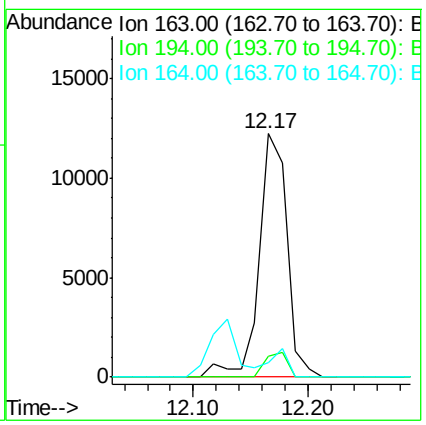


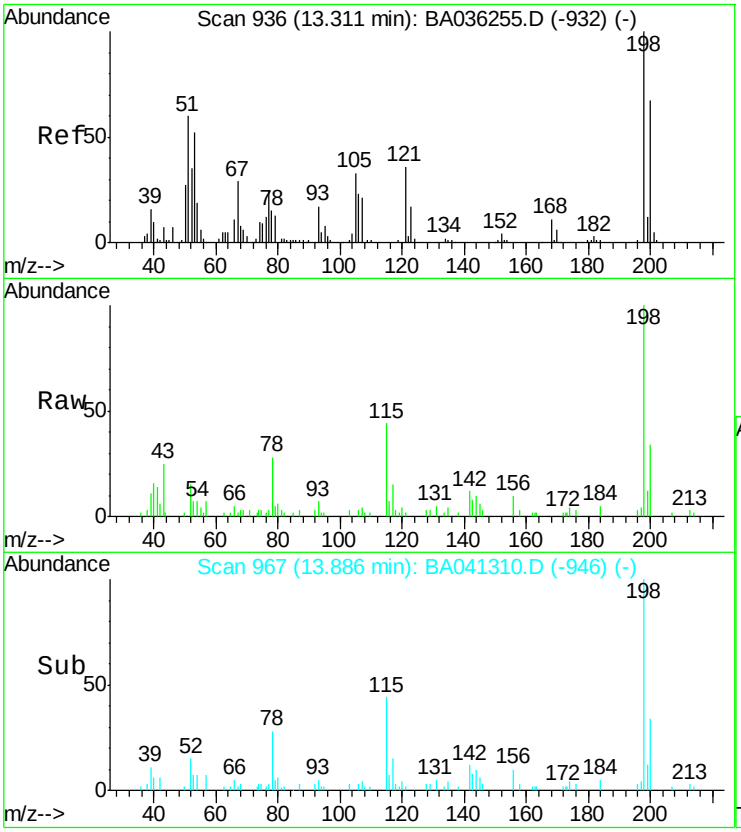


#42
Dimethylphthalate
Concen: 0.51 ng/ul
RT: 12.17 min Scan# 821
Delta R.T. 0.00 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:163 Resp: 20520

Ion	Ratio	Lower	Upper
163	100		
194	8.4	5.8	8.6
164	5.9	7.8	11.6#

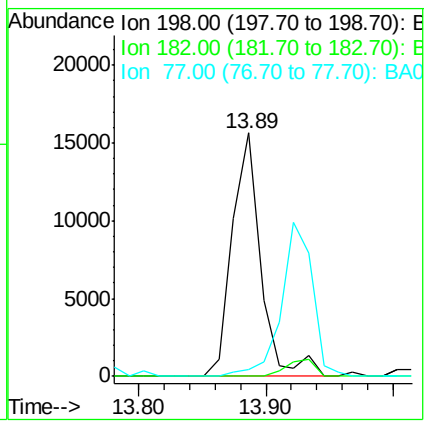


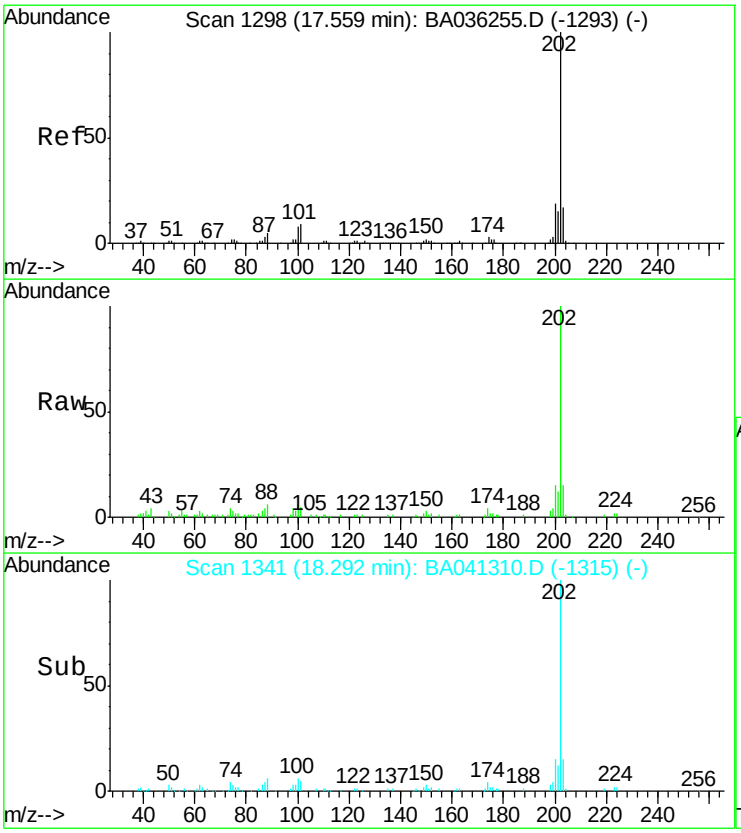


#61
4,6-Dinitro-2-methylphenol
Concen: 2.49 ng/ul
RT: 13.89 min Scan# 967
Delta R.T. -0.06 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:198 Resp: 24175

Ion	Ratio	Lower	Upper
198	100		
182	0.0	2.6	4.0#
77	2.9	17.0	25.4#

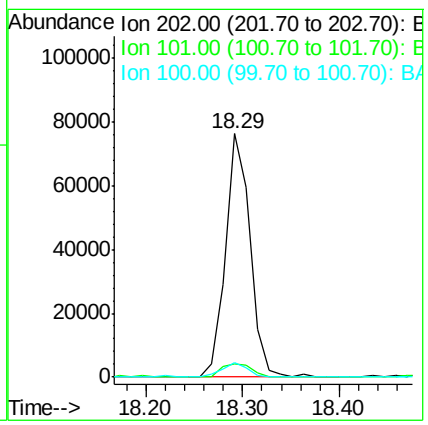


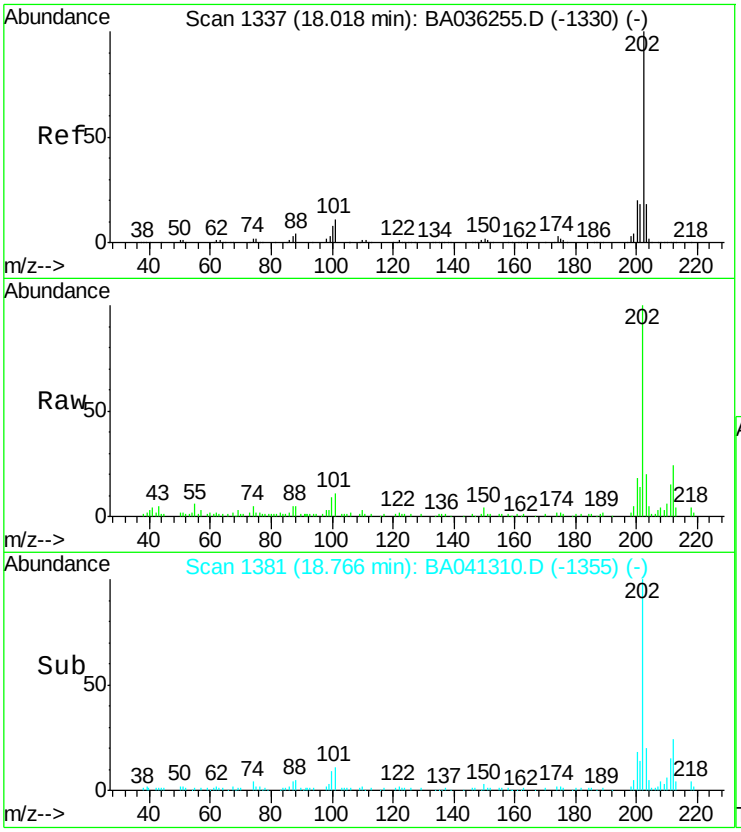


#72
Fluoranthene
Concen: 2.43 ng/ul
RT: 18.29 min Scan# 1341
Delta R.T. 0.01 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:202 Resp: 134005

Ion	Ratio	Lower	Upper
202	100		
101	5.3	2.6	4.0#
100	6.2	2.9	4.3#

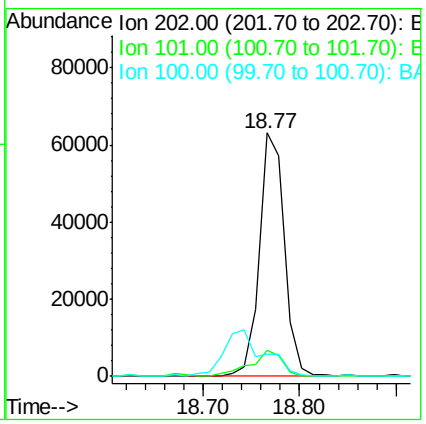


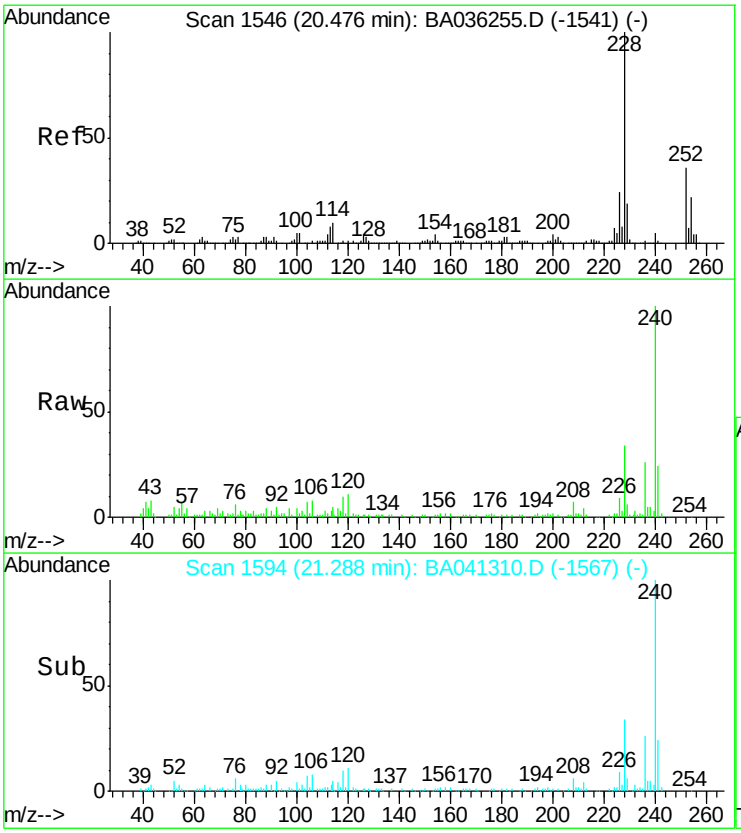


#75
Pyrene
Concen: 2.96 ng/ul
RT: 18.77 min Scan# 1381
Delta R.T. 0.01 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:202 Resp: 112840

Ion	Ratio	Lower	Upper
202	100		
101	10.7	3.5	5.3#
100	9.0	3.4	5.0#

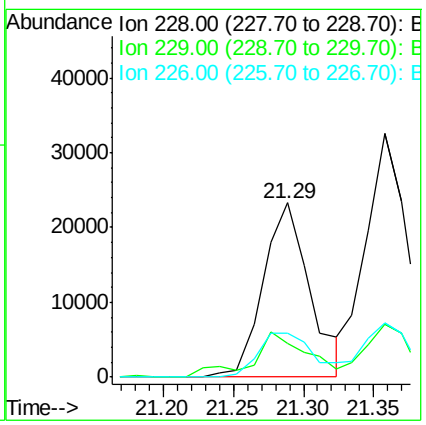


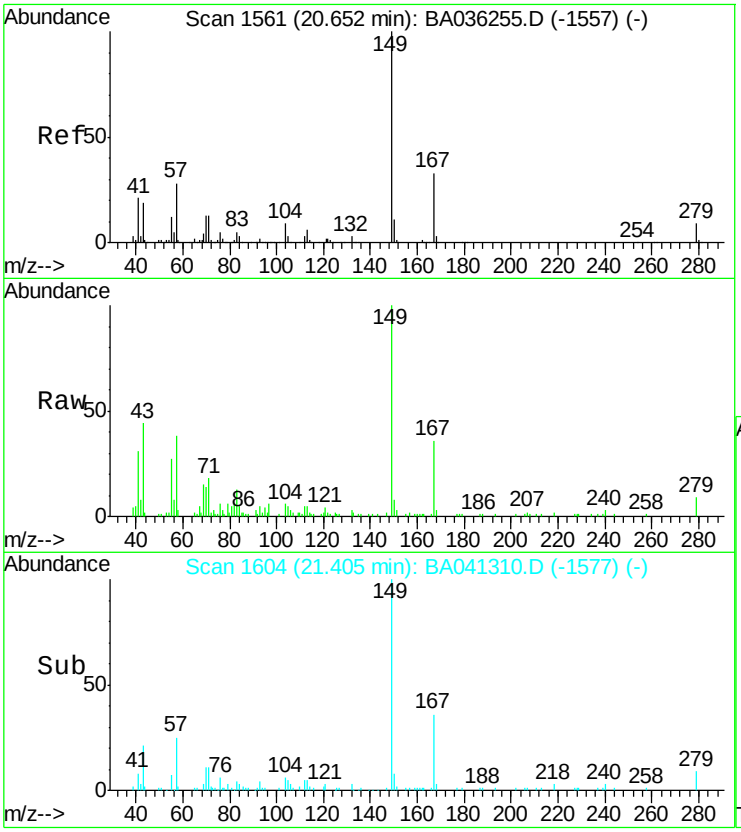


#78
Benzo(a)anthracene
Concen: 1.47 ng/ul
RT: 21.29 min Scan# 1594
Delta R.T. 0.02 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:228 Resp: 53726

Ion	Ratio	Lower	Upper
228	100		
229	19.2	15.9	23.9
226	25.3	20.2	30.2

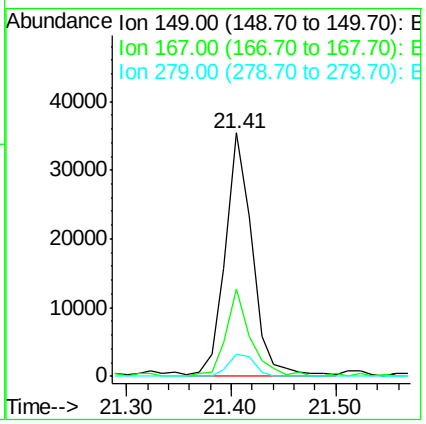


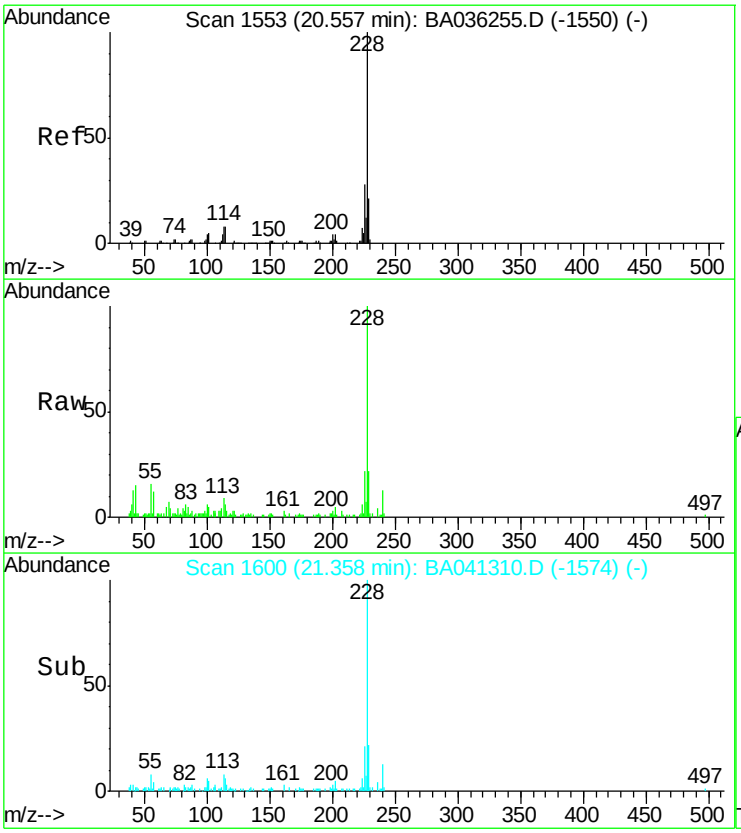


#79
Bis(2-ethylhexyl)phthalate
Concen: 3.28 ng/ul
RT: 21.41 min Scan# 1604
Delta R.T. 0.02 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:149 Resp: 63375

Ion	Ratio	Lower	Upper
149	100		
167	35.9	26.2	39.4
279	9.3	7.7	11.5

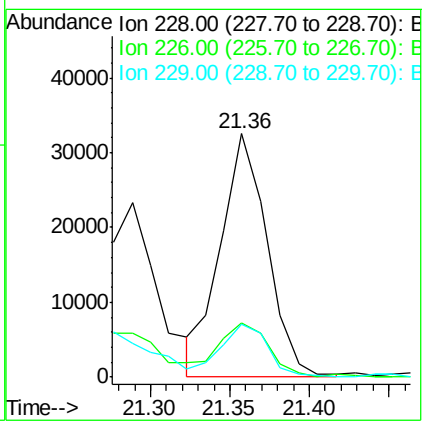


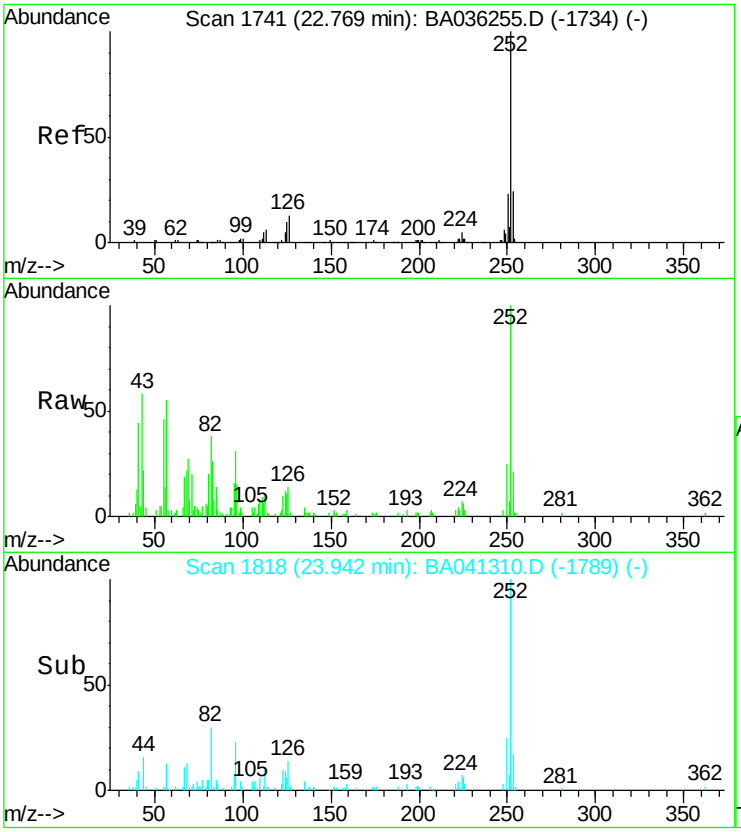


#80
Chrysene
Concen: 2.16 ng/ul m
RT: 21.36 min Scan# 1600
Delta R.T. 0.01 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:228 Resp: 66870

Ion	Ratio	Lower	Upper
228	100		
226	22.0	20.6	31.0
229	21.9	14.4	21.6#

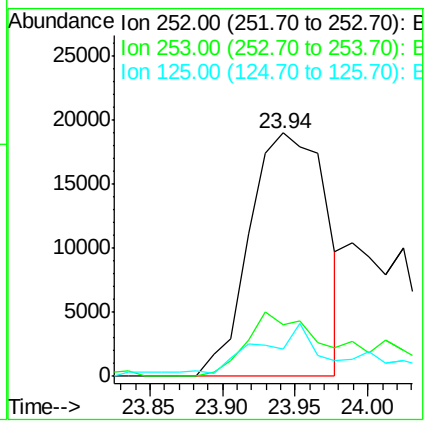


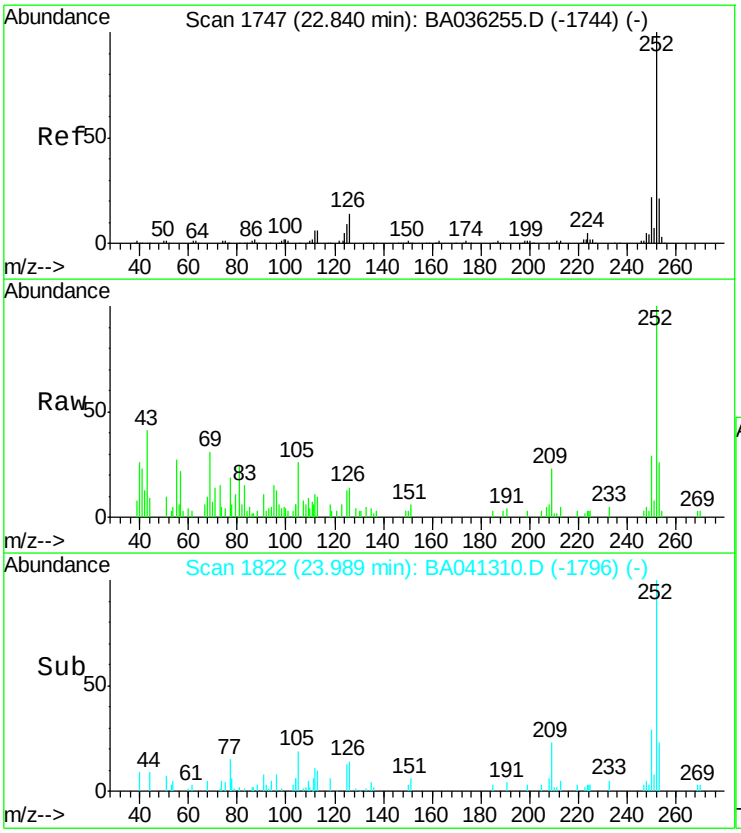


#83
Benzo(b)fluoranthene
Concen: 2.13 ng/ul m
RT: 23.94 min Scan# 1818
Delta R.T. 0.04 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:252 Resp: 69379

Ion	Ratio	Lower	Upper
252	100		
253	21.4	16.2	24.2
125	11.2	4.1	6.1#

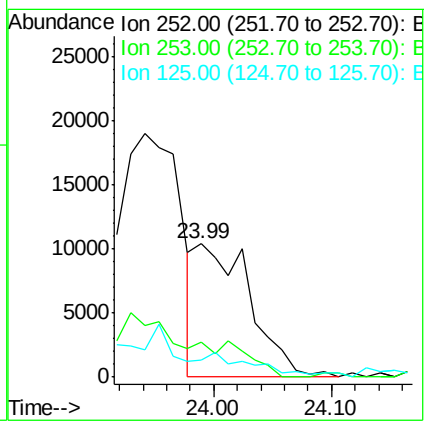


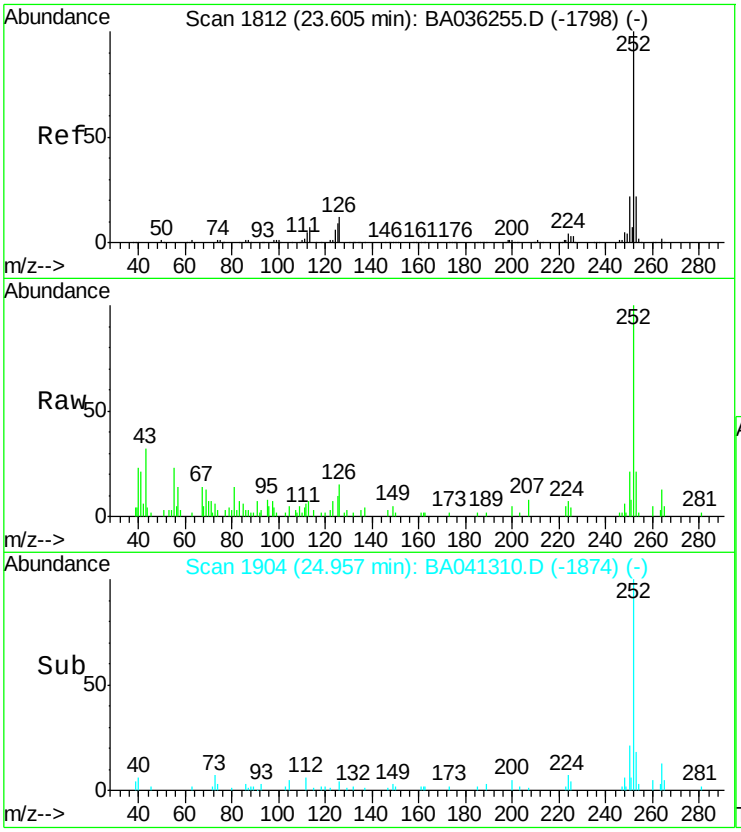


#84
Benzo(k)fluoranthene
Concen: 1.22 ng/ul m
RT: 23.99 min Scan# 1822
Delta R.T. 0.01 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:252 Resp: 33816

Ion	Ratio	Lower	Upper
252	100		
253	26.2	18.2	27.4
125	12.6	3.5	5.3#

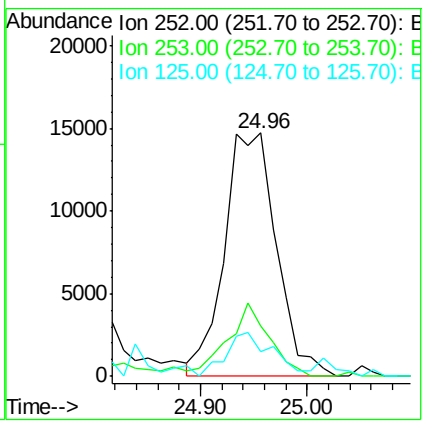


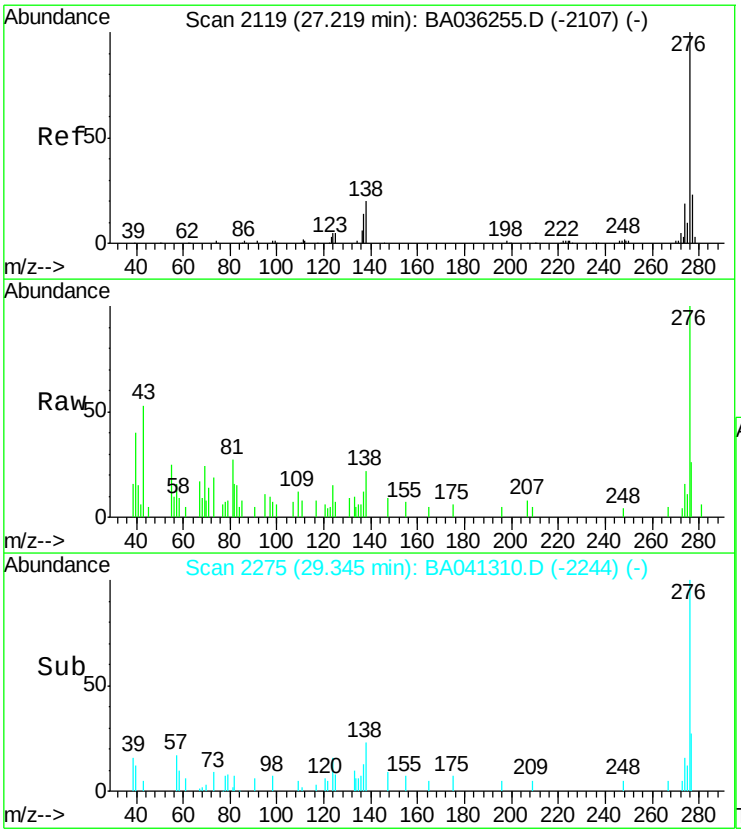


#86
Benzo(a)pyrene
Concen: 1.78 ng/ul
RT: 24.96 min Scan# 1904
Delta R.T. 0.06 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:252 Resp: 50064

Ion	Ratio	Lower	Upper
252	100		
253	20.7	15.1	22.7
125	9.9	3.4	5.2#

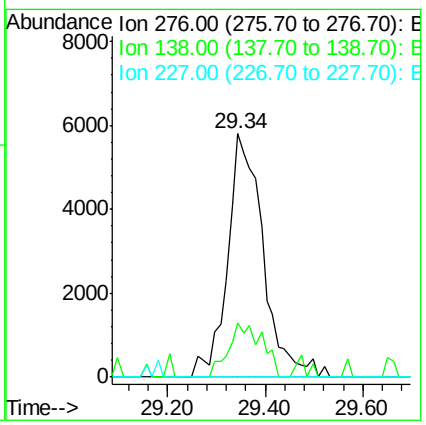




#87
Indeno(1,2,3-cd)pyrene
Concen: 1.10 ng/ul
RT: 29.34 min Scan# 2275
Delta R.T. 0.07 min
Lab File: BA041310.D
Acq: 20 Oct 2008 4:58

Tgt Ion:276 Resp: 29077

Ion	Ratio	Lower	Upper
276	100		
138	22.1	8.2	12.2#
227	0.0	0.0	0.0



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 20 12:40:18 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	219603	20.00	ng/ul	0.01
16) Naphthalene-d8	9.09	136	761215	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.68	164	550269	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.77	188	912754	20.00	ng/ul	0.01
73) Chrysene-d12	21.31	240	687194	20.00	ng/ul	0.02
81) Perylene-d12	25.14	264	498683	20.00	ng/ul	0.07
System Monitoring Compounds						
3) Phenol-d5	6.07	99	429420	32.30	ng/ul	0.01
5) Bis-(2-Chloroethyl)ether-d	6.16	67	338907	37.60	ng/ul	0.01
7) 2-Chlorophenol-d4	6.29	132	381322	33.75	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	142047	15.75	ng/ul	0.00
17) Nitrobenzene-d5	7.70	128	227504	33.76	ng/ul	0.00
20) 2-Nitrophenol-d4	8.33	143	273641	32.99	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.80	165	436288	28.42	ng/ul	0.00
27) 4-Chloroaniline-d4	9.23	131	103650	6.83	ng/ul	0.00
41) Dimethylphthalate-d6	12.13	166	1251676	34.15	ng/ul	0.01
44) Acenaphthylene-d8	12.35	160	1310030	29.40	ng/ul	0.01
49) 4-Nitrophenol-d4	12.98	143	241479	32.33	ng/ul	0.02
55) Fluorene-d10	13.76	176	843941	28.63	ng/ul	0.01
60) 4,6-Dinitro-2-methylphenol	13.93	200	297641	31.51	ng/ul	0.02
68) Anthracene-d10	15.88	188	923154m	21.13	ng/ul	0.02
74) Pyrene-d10	18.74	212	821125	27.35	ng/ul	0.02
85) Benzo(a)pyrene-d12	24.88	264	503281	18.53	ng/ul	0.06

Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	6556	1.10	ng/ul	92
4) Phenol	6.08	94	21110	1.46	ng/ul#	51
12) Acetophenone	7.42	105	101132	5.73	ng/ul	97
42) Dimethylphthalate	12.17	163	20520	0.51	ng/ul#	93
61) 4,6-Dinitro-2-methylphenol	13.89	198	24175	2.49	ng/ul#	65
72) Fluoranthene	18.29	202	134005	2.43	ng/ul#	93
75) Pyrene	18.77	202	112840	2.96	ng/ul#	83
78) Benzo(a)anthracene	21.29	228	53726	1.47	ng/ul	99
79) Bis(2-ethylhexyl)phthalate	21.41	149	63375	3.28	ng/ul	96
80) Chrysene	21.36	228	66870m	2.16	ng/ul	
83) Benzo(b)fluoranthene	23.94	252	69379m	2.13	ng/ul	
84) Benzo(k)fluoranthene	23.99	252	33816m	1.22	ng/ul	
86) Benzo(a)pyrene	24.96	252	50064	1.78	ng/ul#	94
87) Indeno(1,2,3-cd)pyrene	29.34	276	29077	1.10	ng/ul#	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.978	37	39	44	rVB	36116	70285	1.75%	0.099%
2	3.072	44	47	51	rBV	144016	316589	7.87%	0.445%
3	3.284	62	65	71	rVB4	13268	38161	0.95%	0.054%
4	3.532	82	86	91	rVV	172080	320176	7.95%	0.450%
5	3.802	104	109	111	rBV3	20379	51462	1.28%	0.072%
6	3.931	117	120	125	rBV	164230	300927	7.48%	0.423%
7	4.155	135	139	145	rVV	272283	496847	12.34%	0.698%
8	4.250	145	147	154	rVV	79923	137435	3.41%	0.193%
9	5.293	234	236	242	rVB	61989	119657	2.97%	0.168%
10	5.940	287	291	295	rVV3	23376	57857	1.44%	0.081%
11	6.070	298	302	307	rBV	1008575	1907340	47.38%	2.680%
12	6.163	307	310	318	rVV	880620	1347719	33.48%	1.894%
13	6.293	318	321	327	rVV	1097517	1796730	44.64%	2.524%
14	6.411	328	331	333	rVV	21793	38462	0.96%	0.054%
15	6.691	352	355	360	rVV	959318	1519525	37.75%	2.135%
16	6.985	377	380	383	rVV2	15569	41564	1.03%	0.058%
17	7.396	411	415	416	rBV	598477	960227	23.85%	1.349%
18	7.501	421	424	428	rVV2	29182	55907	1.39%	0.079%
19	7.701	437	441	444	rBV	1422748	1968431	48.90%	2.766%
20	8.325	490	494	497	rBV	1306891	1879368	46.69%	2.640%
21	8.584	509	516	519	rBV2	72284	210592	5.23%	0.296%
22	8.642	519	521	524	rBV3	35855	53549	1.33%	0.075%
23	8.796	530	534	537	rBV	1551740	2282253	56.70%	3.206%
24	9.090	555	559	562	rBV	1179202	1735977	43.13%	2.439%
25	9.230	568	571	579	rBV	232507	430543	10.70%	0.605%
26	9.595	600	602	606	rVB2	29772	43540	1.08%	0.061%
27	9.771	615	617	623	rVV2	21736	38224	0.95%	0.054%
28	10.158	647	650	655	rVB3	21867	39100	0.97%	0.055%
29	10.287	657	661	665	rVV3	15950	37623	0.93%	0.053%
30	10.911	712	714	719	rVB	33153	52674	1.31%	0.074%
31	11.075	724	728	732	rVV3	18924	42648	1.06%	0.060%
32	12.130	814	818	821	rBV	2133986	3164682	78.62%	4.446%
33	12.354	833	837	840	rBV	1801487	2913246	72.37%	4.093%
34	12.684	861	865	868	rVV	1284597	2195632	54.55%	3.085%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.979	885	890	893	rBV	1129227	1961032	48.72%	2.755%
36	13.097	898	900	905	rVV	103963	182069	4.52%	0.256%
37	13.250	910	913	916	rVV	24989	39047	0.97%	0.055%
38	13.415	923	927	931	rBV5	15650	41829	1.04%	0.059%
39	13.756	951	956	960	rBV	1771974	3142625	78.07%	4.415%
40	13.886	964	967	968	rVV2	79868	161985	4.02%	0.228%
41	13.922	968	970	973	rVV	1060898	1762823	43.79%	2.477%
42	14.015	976	978	981	rBV3	22324	44501	1.11%	0.063%
43	14.191	987	993	998	rBV5	13598	54124	1.34%	0.076%
44	14.367	1003	1008	1012	rBV5	19997	46091	1.15%	0.065%
45	14.709	1034	1037	1039	rBV	45761	76356	1.90%	0.107%
46	14.873	1048	1051	1054	rBV2	24901	38228	0.95%	0.054%
47	15.226	1079	1081	1085	rVB3	32666	64029	1.59%	0.090%
48	15.297	1085	1087	1090	rBV2	33142	58315	1.45%	0.082%
49	15.650	1114	1117	1121	rBV2	44556	91216	2.27%	0.128%
50	15.768	1123	1127	1129	rBV	1425980	2263268	56.23%	3.180%
51	15.814	1129	1131	1133	rVB	173123	240702	5.98%	0.338%
52	15.885	1133	1137	1140	rBV	1552985	2541932	63.15%	3.571%
53	16.026	1147	1149	1153	rVB3	19509	39190	0.97%	0.055%
54	16.143	1157	1159	1163	rVV5	23123	43447	1.08%	0.061%
55	16.542	1190	1193	1194	rBV3	30789	51788	1.29%	0.073%
56	16.648	1200	1202	1206	rBV4	15913	44344	1.10%	0.062%
57	16.743	1208	1210	1214	rVB	40276	61914	1.54%	0.087%
58	16.873	1216	1221	1224	rVV3	126001	260705	6.48%	0.366%
59	16.944	1224	1227	1231	rVV	230398	443112	11.01%	0.623%
60	17.038	1231	1235	1245	rVB	757245	1617949	40.19%	2.273%
61	17.394	1262	1265	1267	rBV2	44314	76421	1.90%	0.107%
62	17.441	1267	1269	1270	rVV2	32236	51475	1.28%	0.072%
63	17.477	1270	1272	1277	rVB5	28601	59645	1.48%	0.084%
64	17.571	1277	1280	1282	rBV3	12689	37727	0.94%	0.053%
65	17.619	1282	1284	1287	rVB4	21900	48851	1.21%	0.069%
66	18.209	1329	1334	1339	rBV5	101761	400789	9.96%	0.563%
67	18.292	1339	1341	1346	rVB	183664	329519	8.19%	0.463%
68	18.446	1351	1354	1355	rBV2	31296	49609	1.23%	0.070%
69	18.493	1356	1358	1360	rBV3	25744	46278	1.15%	0.065%
70	18.671	1370	1373	1375	rBV	130138	230880	5.74%	0.324%
71	18.743	1375	1379	1385	rVB2	1202334	2568538	63.81%	3.609%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

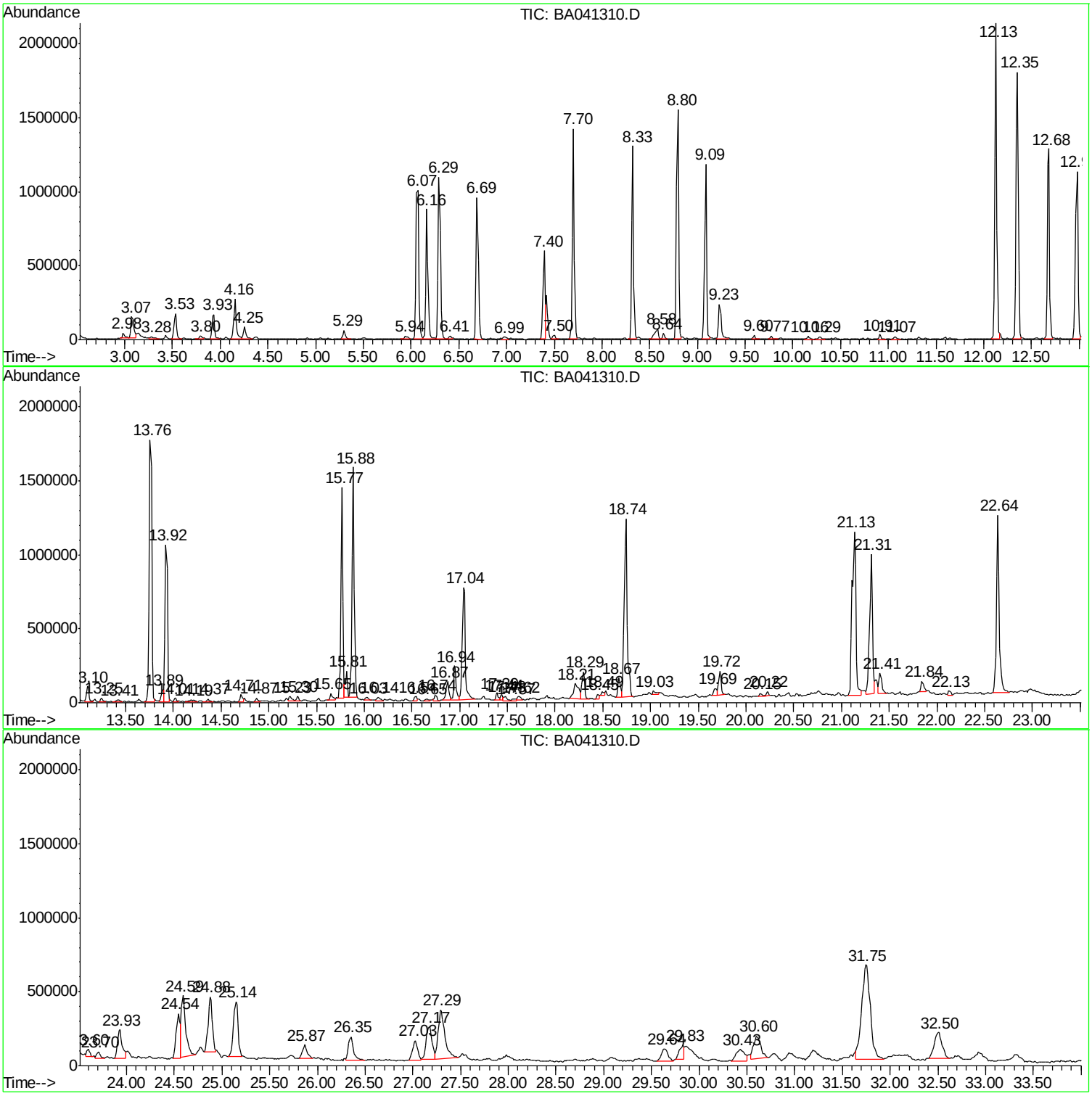
72	19.026	1402	1403	1408	rBV5	22581	65599	1.63%	0.092%
73	19.689	1455	1459	1460	rBV3	49540	128207	3.19%	0.180%
74	19.724	1460	1462	1466	rVB	160168	267689	6.65%	0.376%
75	20.149	1496	1498	1502	rBV5	21086	54008	1.34%	0.076%
76	20.220	1502	1504	1506	rVB3	27976	41248	1.02%	0.058%
77	21.134	1576	1581	1587	rBV2	1102377	3070093	76.27%	4.313%
78	21.312	1591	1596	1599	rVV	945132	2042365	50.74%	2.869%
79	21.405	1602	1604	1609	rVB	139897	275894	6.85%	0.388%
80	21.843	1639	1641	1645	rBV3	66212	126891	3.15%	0.178%
81	22.126	1664	1665	1668	rVB3	28440	48195	1.20%	0.068%
82	22.637	1704	1708	1718	rBV	1201596	2612659	64.91%	3.671%
83	23.597	1787	1789	1793	rVB4	47227	103056	2.56%	0.145%
84	23.704	1795	1798	1803	rVB3	44836	108476	2.69%	0.152%
85	23.930	1812	1817	1822	rBV4	191063	644130	16.00%	0.905%
86	24.543	1864	1869	1871	rBV2	304836	948493	23.56%	1.333%
87	24.590	1871	1873	1884	rVB2	411359	1260964	31.33%	1.772%
88	24.875	1892	1897	1902	rBV	371808	1169489	29.05%	1.643%
89	25.145	1913	1920	1925	rBV	373185	1250230	31.06%	1.757%
90	25.866	1976	1981	1988	rBV3	96048	344704	8.56%	0.484%
91	26.351	2017	2022	2034	rVB2	160834	612173	15.21%	0.860%
92	27.027	2073	2079	2084	rBV6	132344	472364	11.73%	0.664%
93	27.169	2084	2091	2096	rBV3	220726	975122	24.23%	1.370%
94	27.288	2096	2101	2117	rVB3	324560	1564544	38.87%	2.198%
95	29.640	2293	2300	2308	rBV4	82611	394689	9.81%	0.555%
96	29.830	2309	2316	2317	rBV4	100600	339549	8.44%	0.477%
97	30.431	2359	2367	2373	rBV8	78604	480731	11.94%	0.675%
98	30.598	2376	2381	2391	rVB9	147569	784189	19.48%	1.102%
99	31.745	2469	2478	2494	rVB5	635939	4025268	100.00%	5.655%
100	32.501	2534	2542	2552	rVB8	177670	1027517	25.53%	1.444%

Sum of corrected areas: 71175841

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

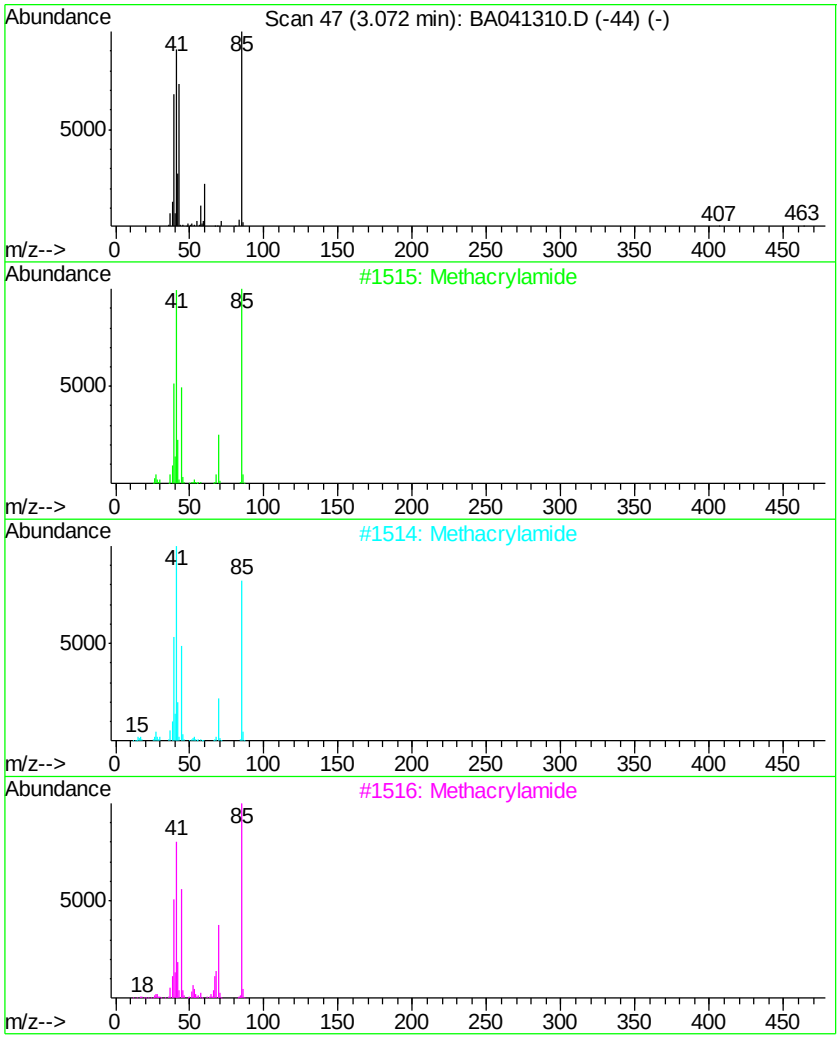
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

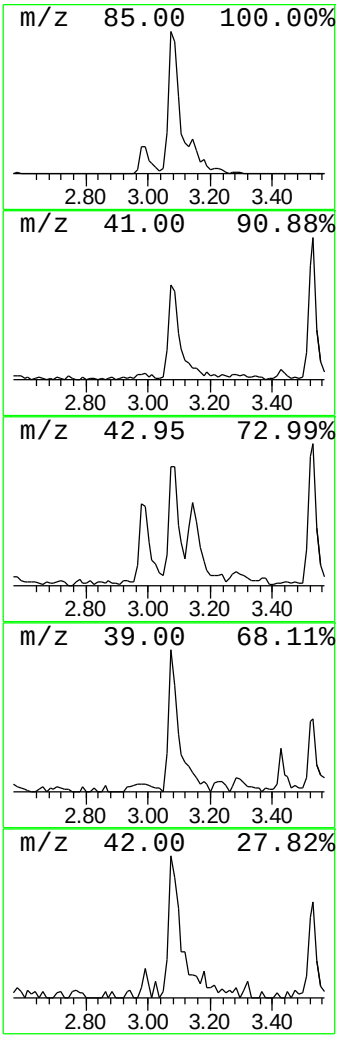
****

Peak Number 1 Methacrylamide Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.07	4.17 ng/ul	316589	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methacrylamide	85	C4H7NO	000079-39-0	64
2	Methacrylamide	85	C4H7NO	000079-39-0	59
3	Methacrylamide	85	C4H7NO	000079-39-0	59
4	trans-Crotonamide	85	C4H7NO	000625-37-6	53
5	2-(Bromomethyl)acrylic acid	164	C4H5BrO2	072707-66-5	33





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

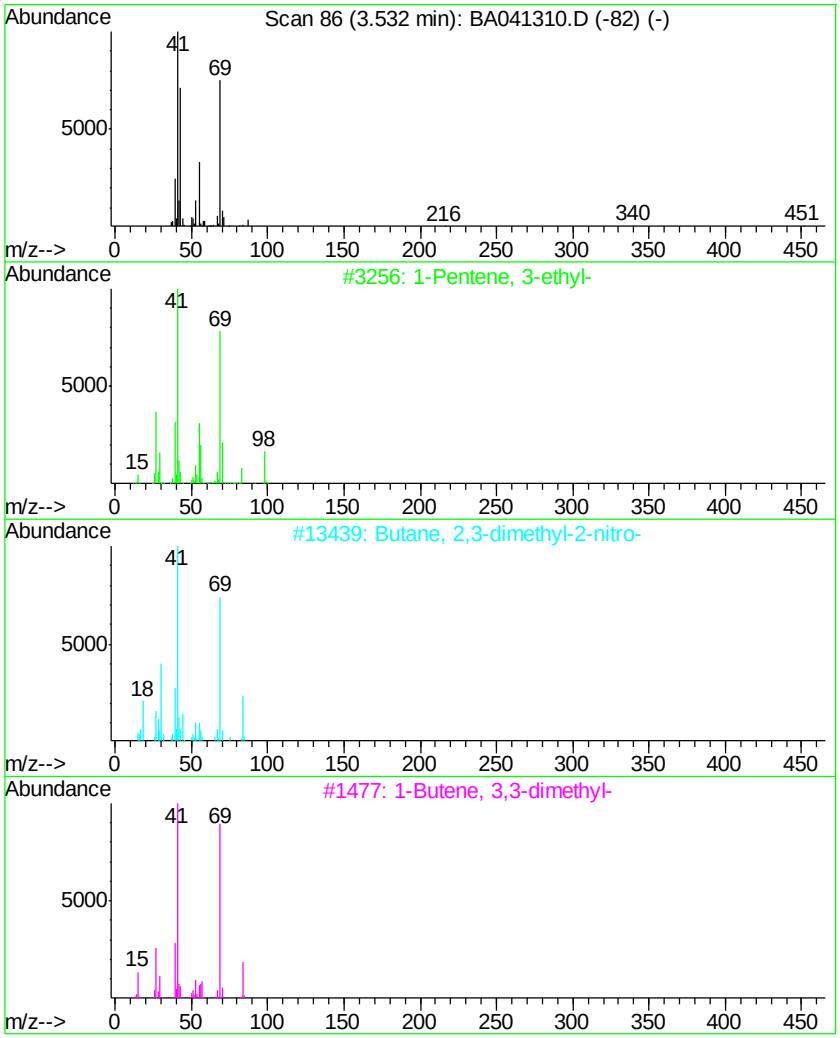
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

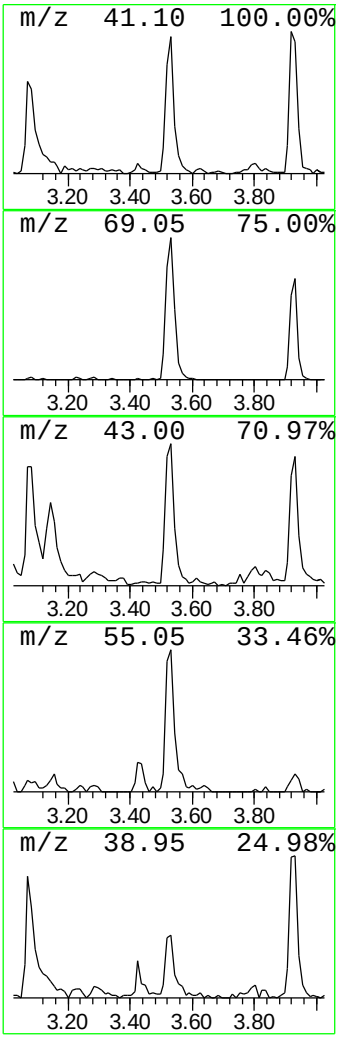
****

Peak Number 2 1-Pentene, 3-ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.53	4.21 ng/ul	320176	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 3-ethyl-	98	C7H14	004038-04-4	56
2	Butane, 2,3-dimethyl-2-nitro-	131	C6H13NO2	034075-28-0	56
3	1-Butene, 3,3-dimethyl-	84	C6H12	000558-37-2	56
4	2-Butene, 1-bromo-3-methyl-	148	C5H9Br	000870-63-3	50
5	1-Pentene, 2,3-dimethyl-	98	C7H14	003404-72-6	45





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

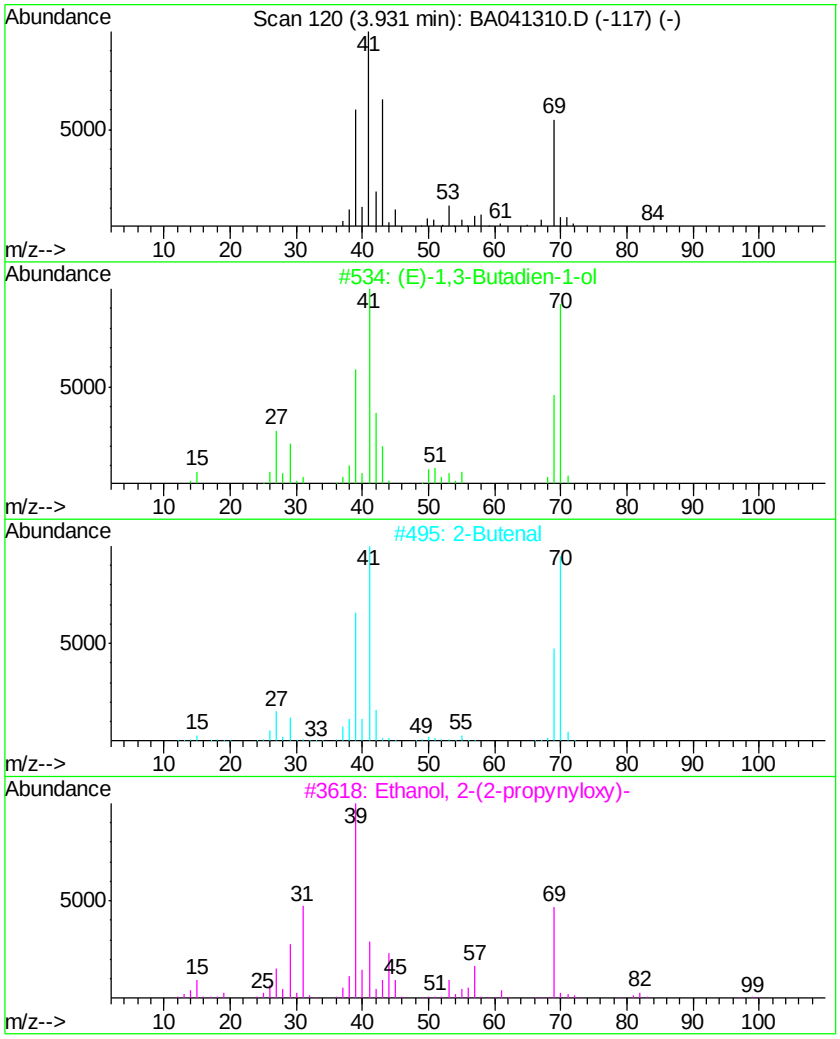
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

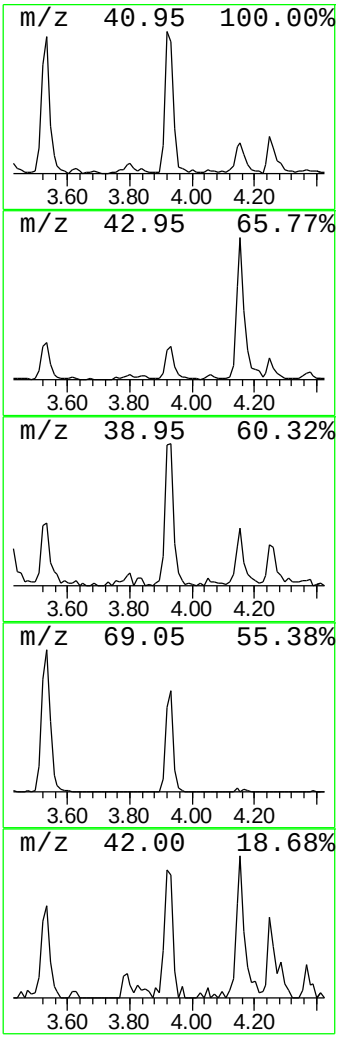
****

Peak Number 3 (E)-1,3-Butadien-1-ol Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.93	3.96 ng/ul	300927	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-1,3-Butadien-1-ol	70	C4H6O	070411-98-2	50
2	2-Butenal	70	C4H6O	004170-30-3	45
3	Ethanol, 2-(2-propynyloxy)-	100	C5H8O2	003973-18-0	40
4	3-Buten-2-one, 3-methyl-	84	C5H8O	000814-78-8	39
5	(Z)-1,3-Butadien-1-ol	70	C4H6O	070415-58-6	38





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On    : 20 Oct 2008   4:58
Operator  : QM
Sample    : Z4920-12
Misc      :
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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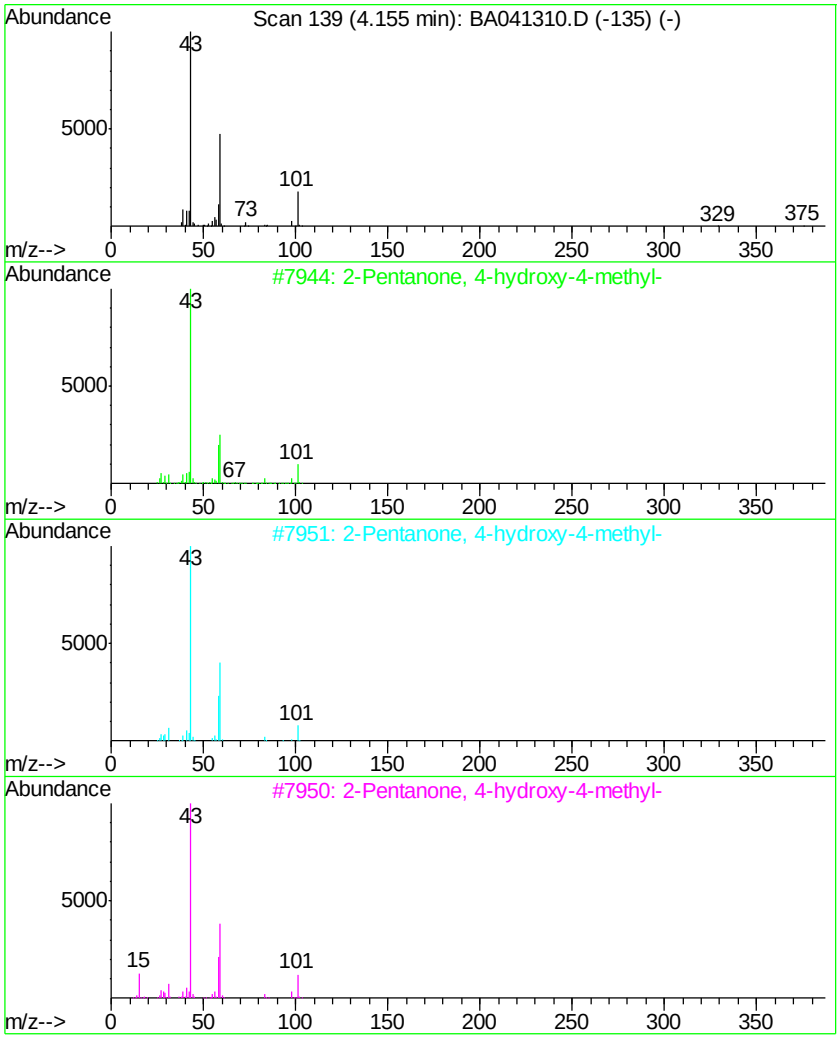
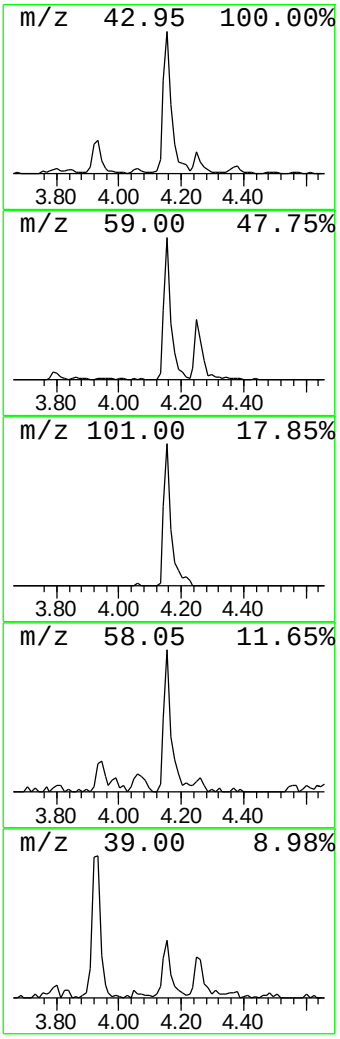
****

Peak Number 4 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.16	6.54 ng/ul	496847	1,4-Dichlorobenzene-d4	6.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
4	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	38
5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

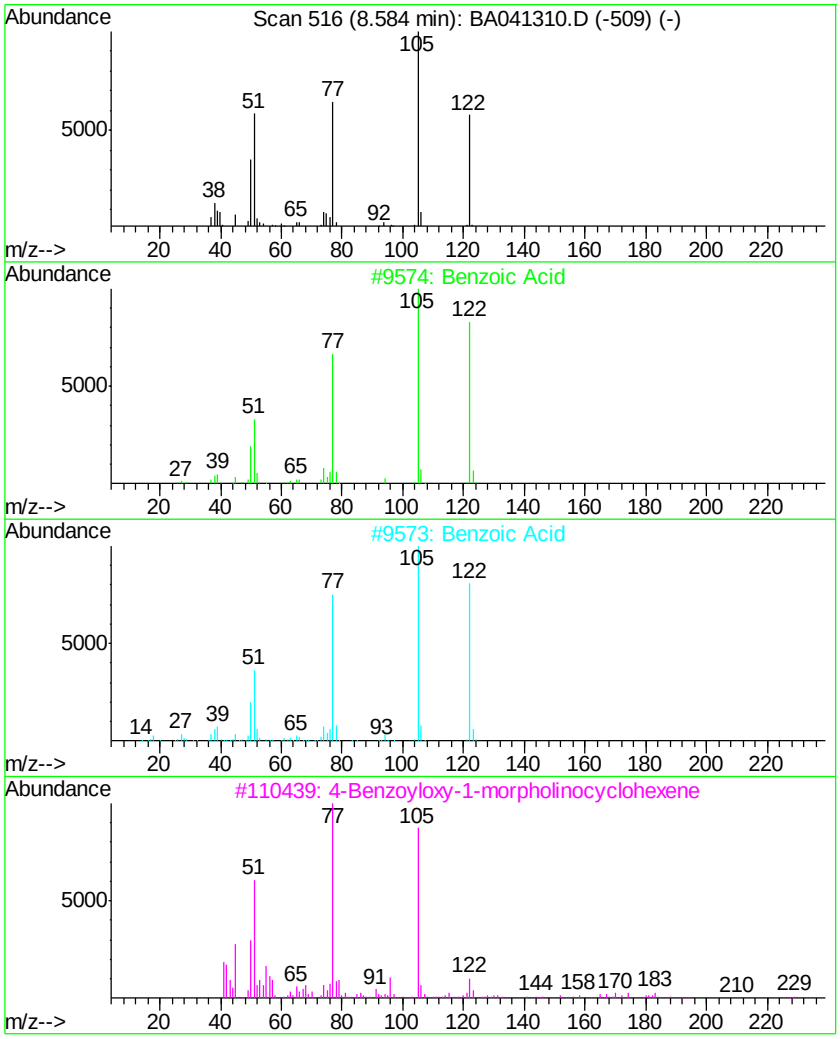
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

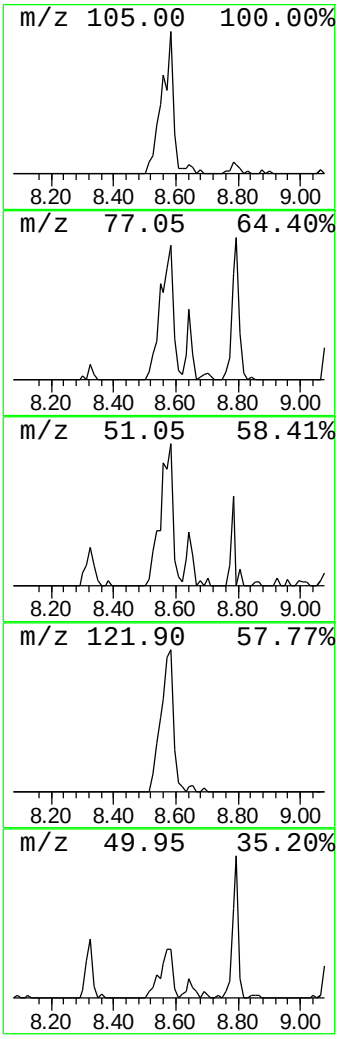
****

Peak Number 5 Benzoic Acid Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.58	2.43 ng/ul	210592	Naphthalene-d8	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic Acid	122	C7H6O2	000065-85-0	91
2	Benzoic Acid	122	C7H6O2	000065-85-0	91
3	4-Benzoyloxy-1-morpholinocyclohe...	287	C17H21NO3	037138-56-0	64
4	Benzoyl isothiocyanate	163	C8H5NOS	000532-55-8	58
5	Benzoylformic acid	150	C8H6O3	000611-73-4	58





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Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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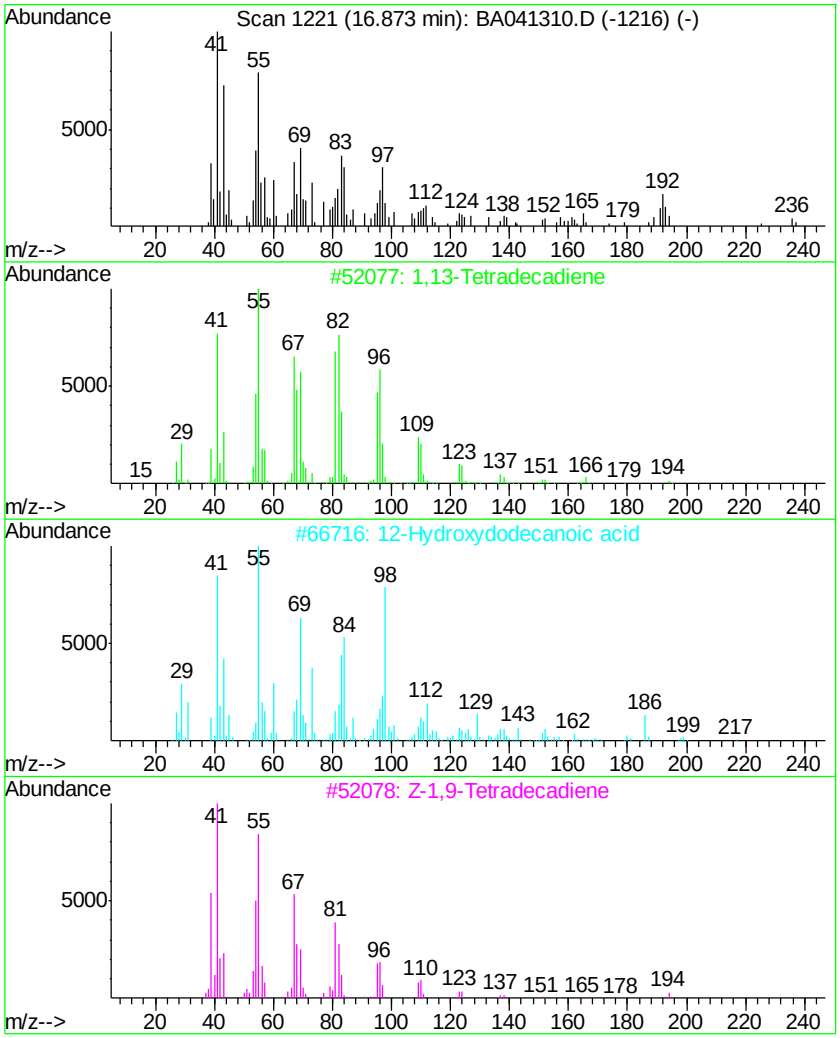
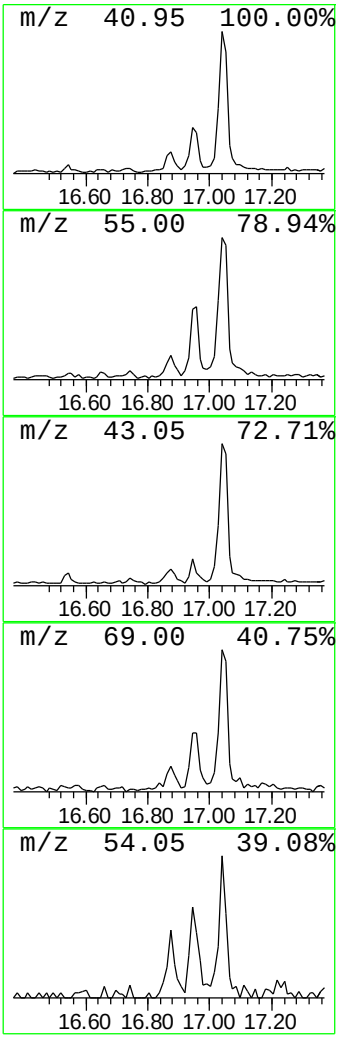
Peak Number 6 unknown16.87 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.87	2.30 ng/ul	260705	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,13-Tetradecadiene	194	C14H26	021964-49-8	43
2	12-Hydroxydodecanoic acid	216	C12H24O3	000505-95-3	38
3	Z-1,9-Tetradecadiene	194	C14H26	1000245-70-9	38
4	E-11-Tetradecenoic acid	226	C14H26O2	1000130-96-2	27
5	3-Hepten-1-ol, (Z)-	114	C7H14O	001708-81-2	25





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Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
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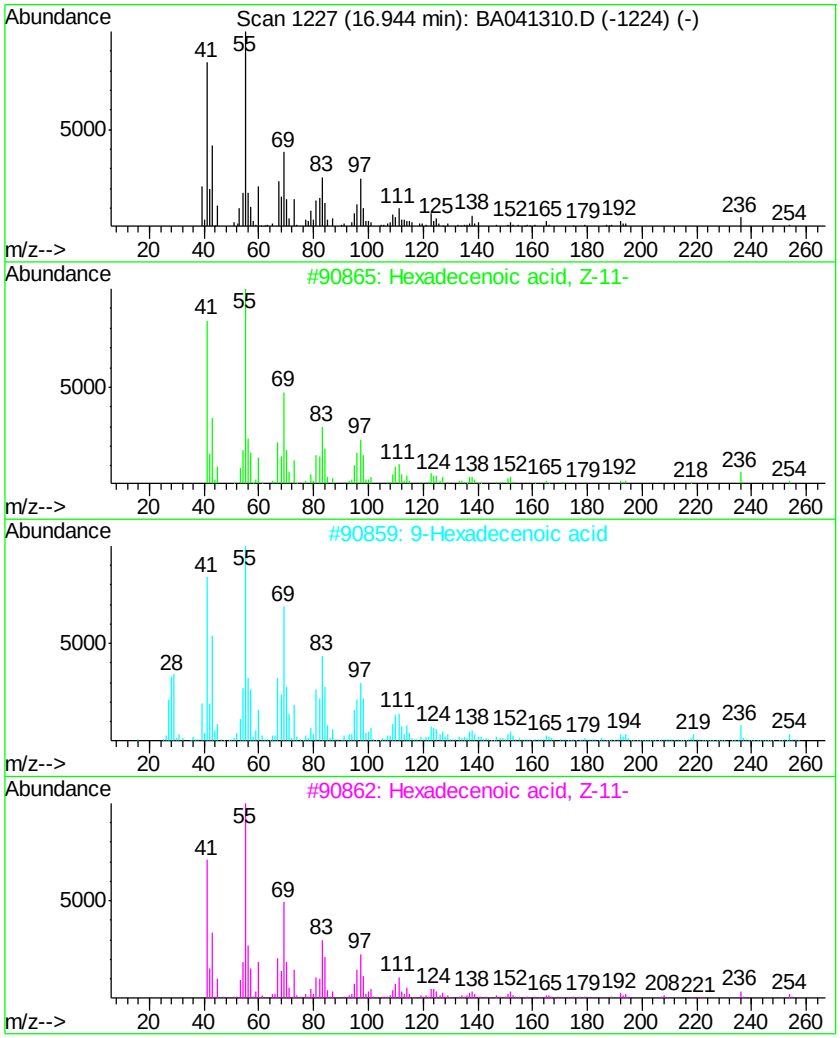
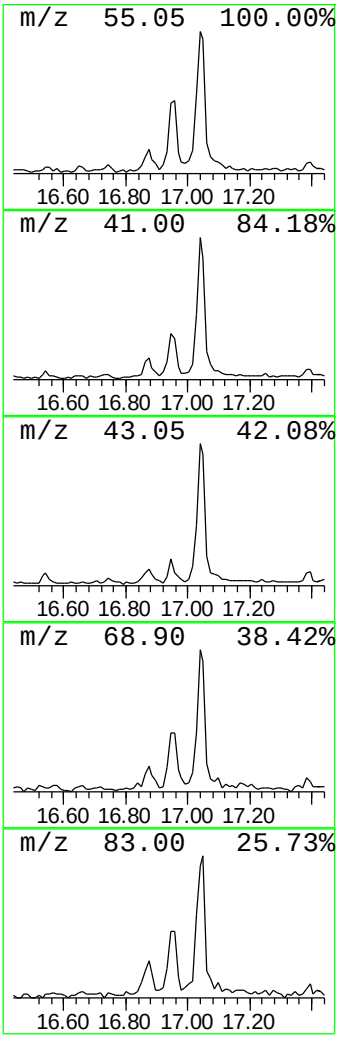
Peak Number 7 Hexadecenoic acid, Z-11- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.94	3.92 ng/ul	443112	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecenoic acid, Z-11-	254	C16H30O2	002416-20-8	93
2	9-Hexadecenoic acid	254	C16H30O2	002091-29-4	91
3	Hexadecenoic acid, Z-11-	254	C16H30O2	002416-20-8	81
4	Cyclohexadecane	224	C16H32	000295-65-8	49
5	E-9-Tetradecenoic acid	226	C14H26O2	1000131-35-8	43





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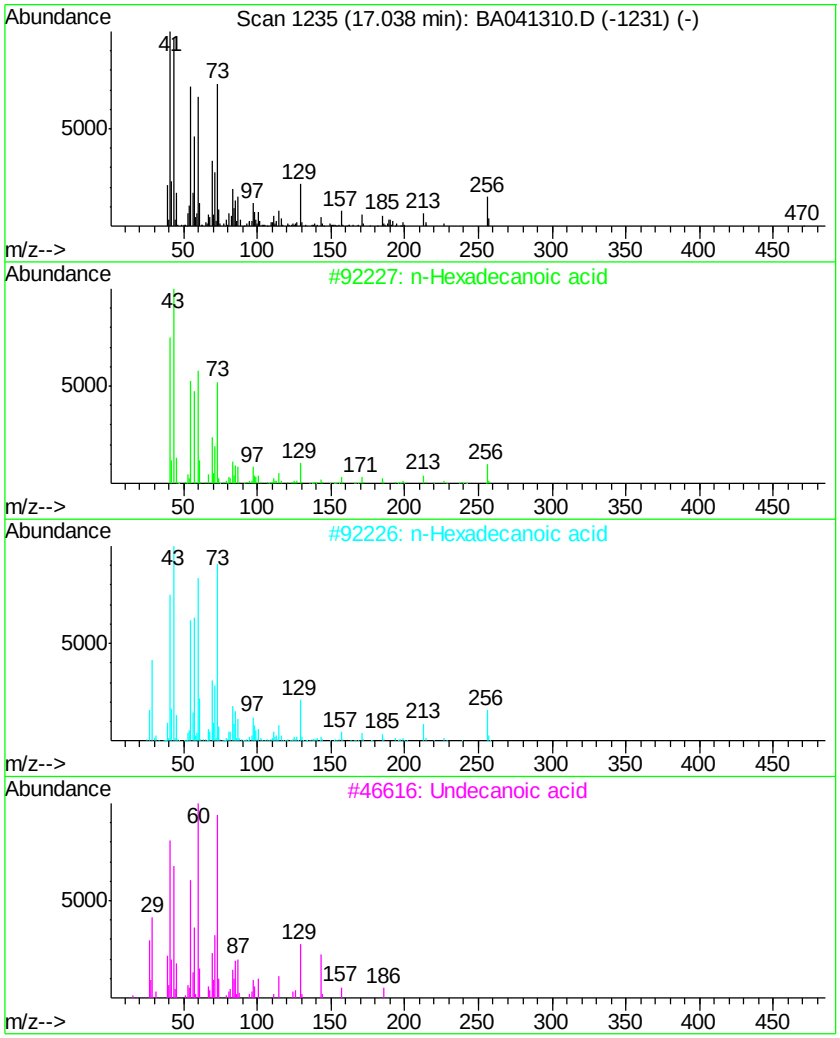
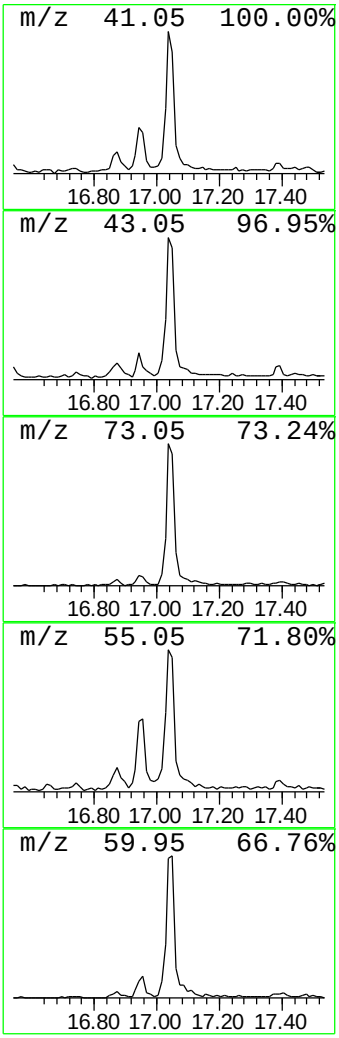
Peak Number 8 n-Hexadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.04	14.30 ng/ul	1617950	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	Undecanoic acid	186	C11H22O2	000112-37-8	80
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	72





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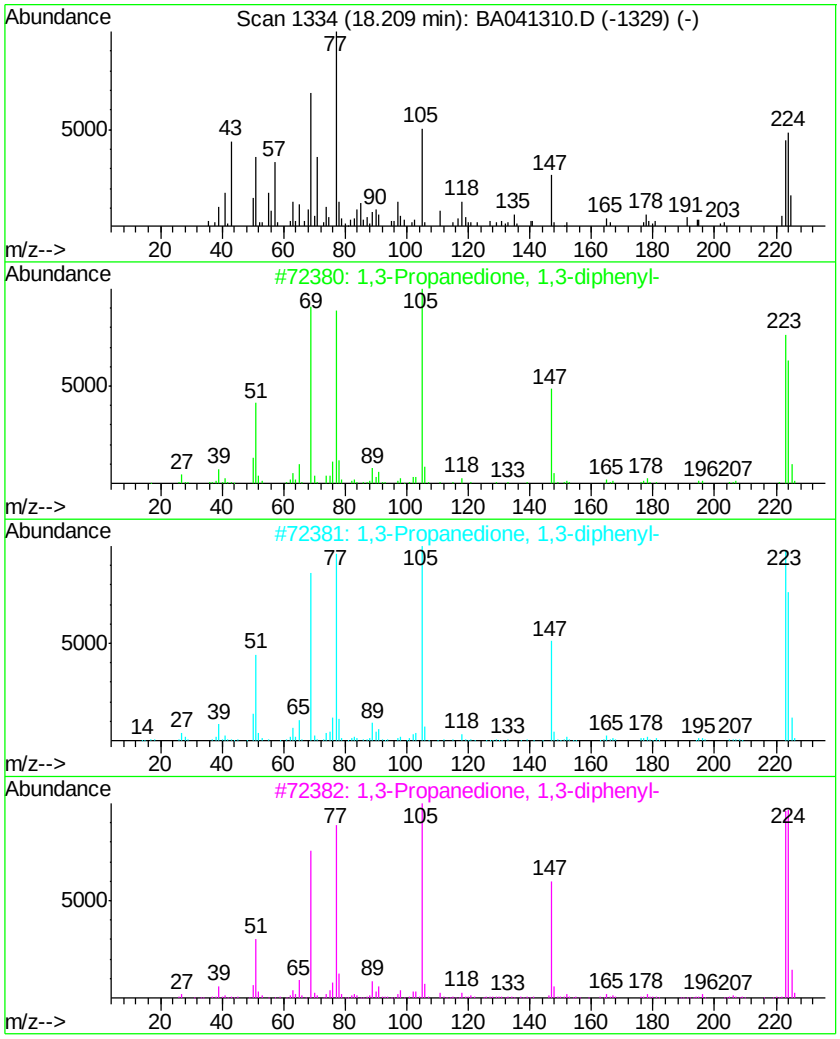
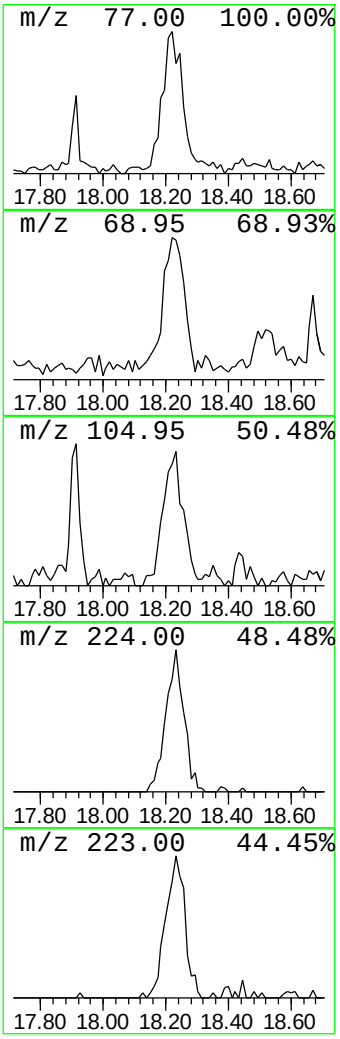
Peak Number 9 1,3-Propanedione, 1,3-diphe... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.21	3.54 ng/ul	400789	Phenanthrene-d10	15.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	60
2	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	50
3	1,3-Propanedione, 1,3-diphenyl-	224	C15H12O2	000120-46-7	46
4	1,3-Propanedione, 2-bromo-1,3-di...	302	C15H11BrO2	000728-84-7	40
5	Benzamide, N-(2,6-dimethyl-4-nit...	270	C15H14N2O3	139765-25-6	37





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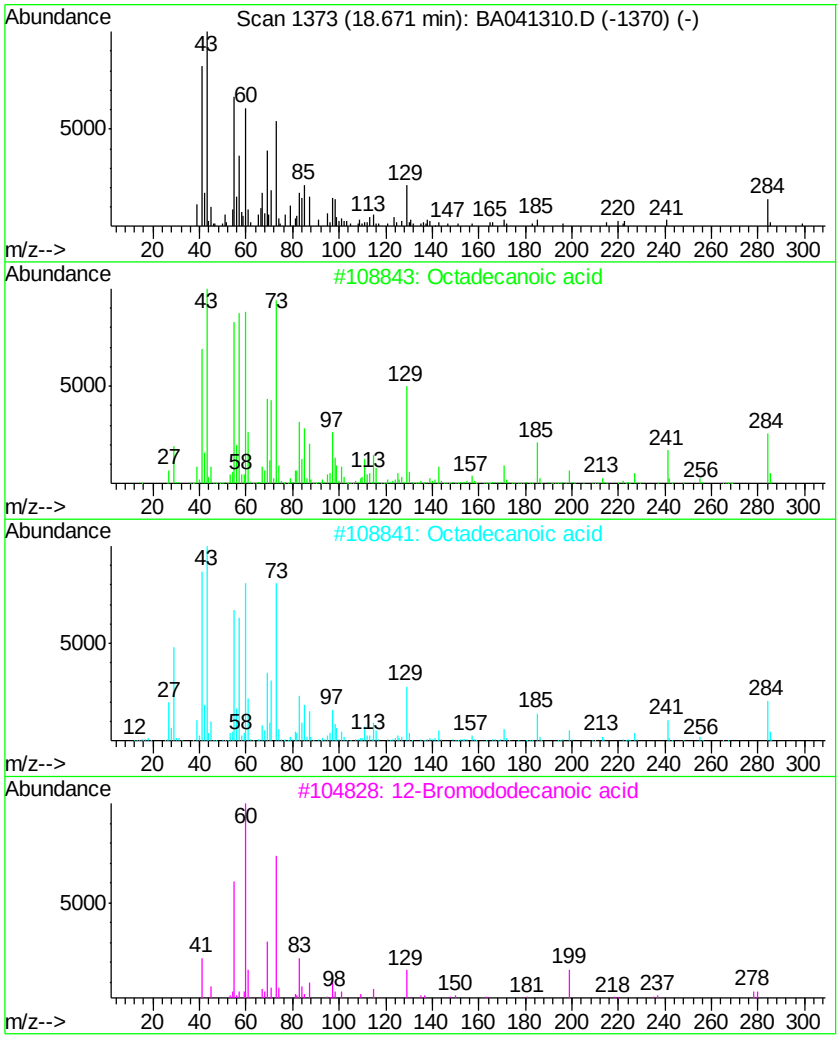
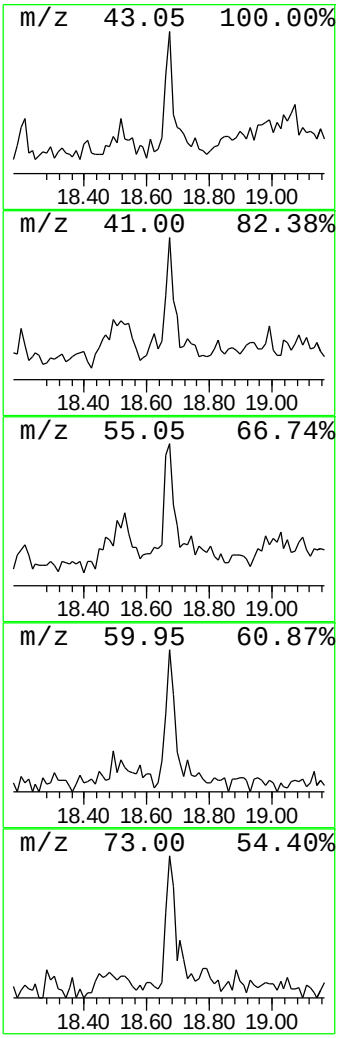
Peak Number 10 Octadecanoic acid Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.67	2.26 ng/ul	230880	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	74
2	Octadecanoic acid	284	C18H36O2	000057-11-4	58
3	12-Bromododecanoic acid	278	C12H23BrO2	073367-80-3	53
4	Octadecanoic acid	284	C18H36O2	000057-11-4	52
5	Vitamin d3	384	C27H44O	001406-16-2	50





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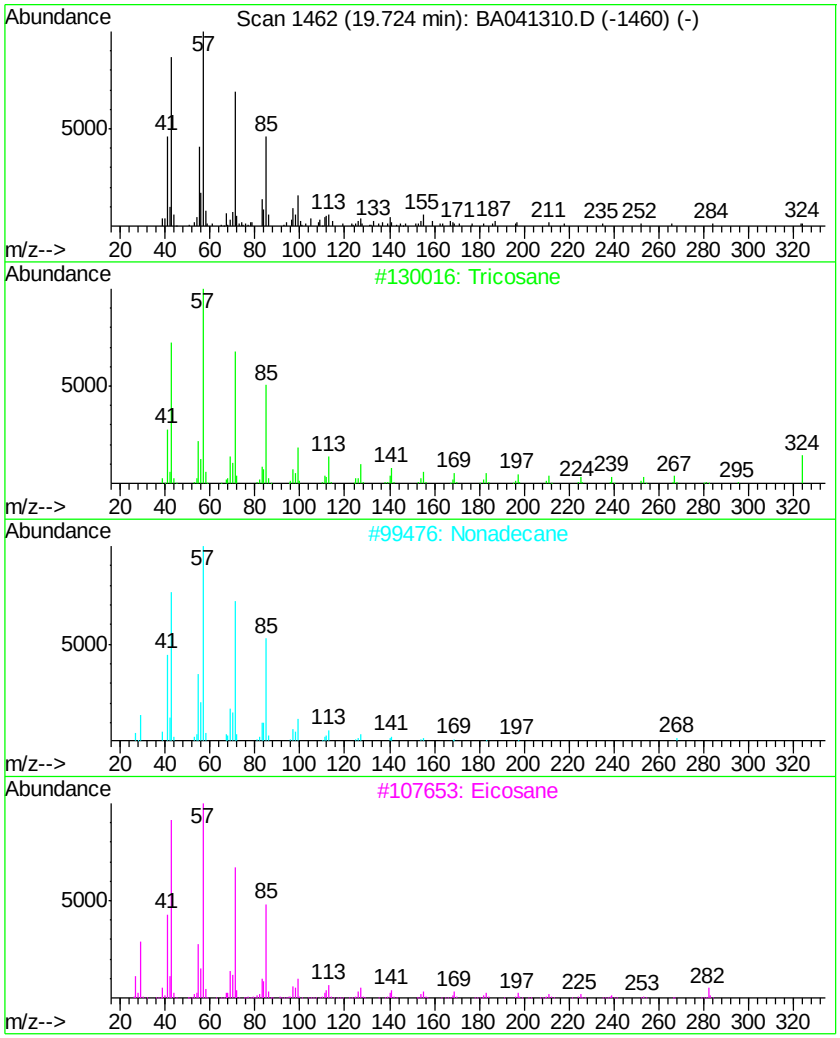
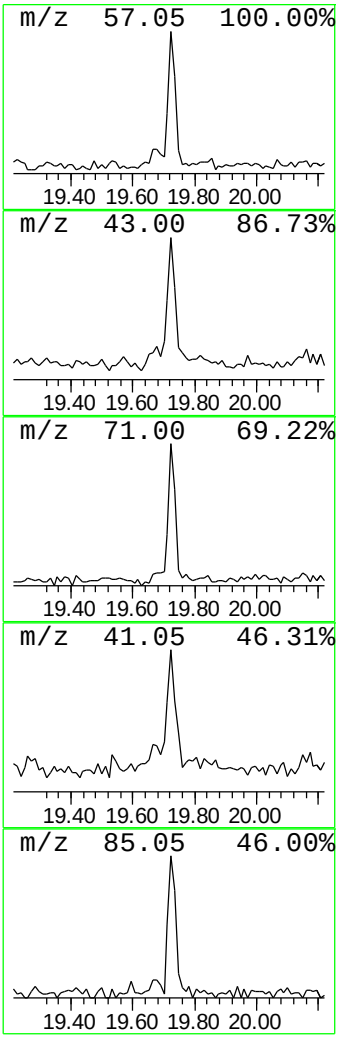
Peak Number 11 Tricosane Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.72	2.62 ng/ul	267689	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosane	324	C23H48	000638-67-5	87
2	Nonadecane	268	C19H40	000629-92-5	87
3	Eicosane	282	C20H42	000112-95-8	87
4	Docosane, 7-butyl-	366	C26H54	055282-15-0	87
5	Octacosane	394	C28H58	000630-02-4	86





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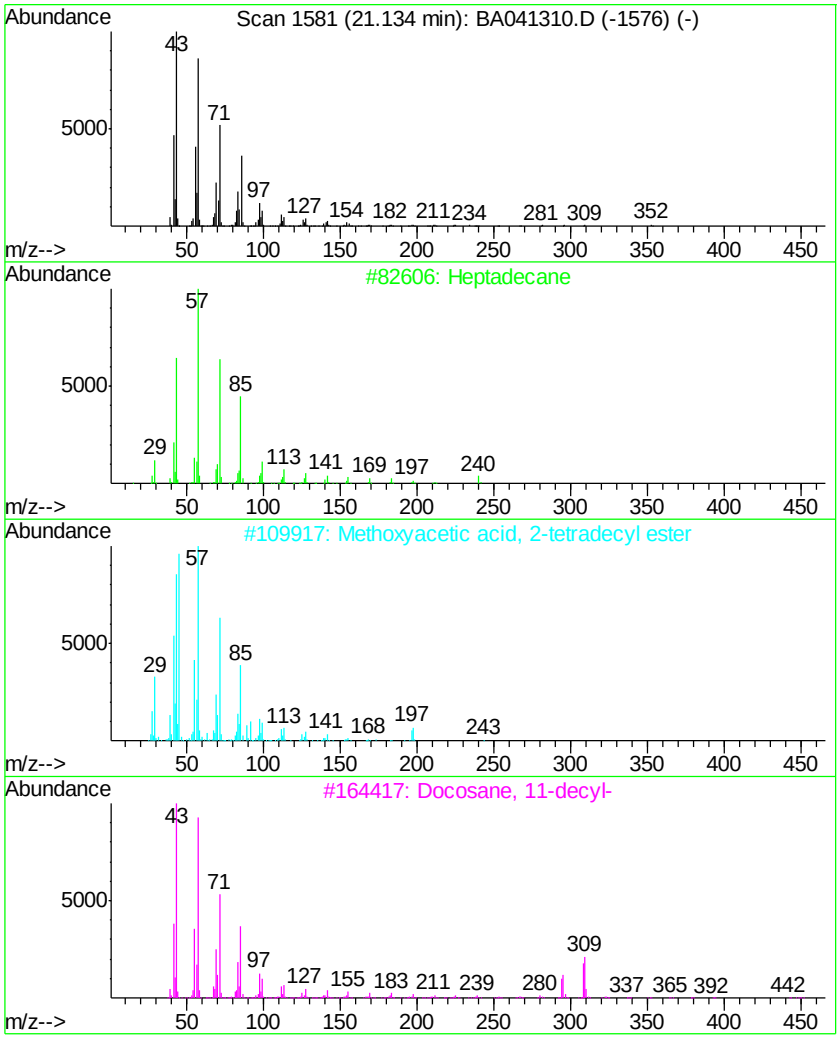
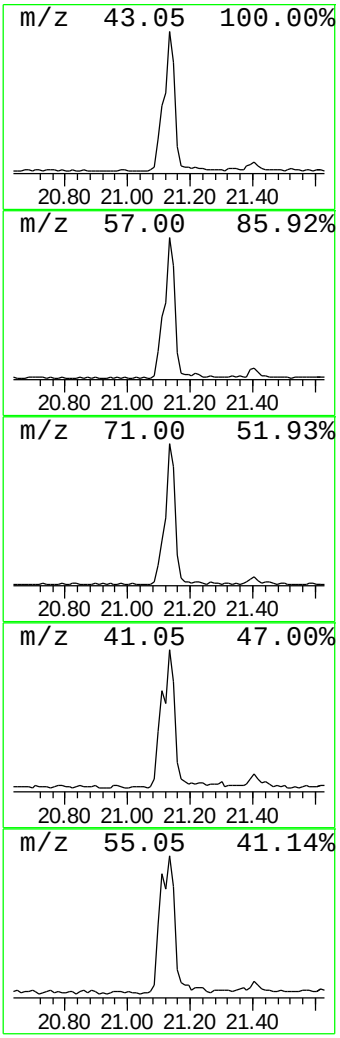
Peak Number 12 Heptadecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.13	30.06 ng/ul	3070090	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	93
2	Methoxyacetic acid, 2-tetradecyl...	286	C17H34O3	1000282-04-8	91
3	Docosane, 11-decyl-	451	C32H66	055401-55-3	87
4	Nonadecane, 1-chloro-	302	C19H39Cl	062016-76-6	86
5	Tritetracontane	605	C43H88	007098-21-7	80





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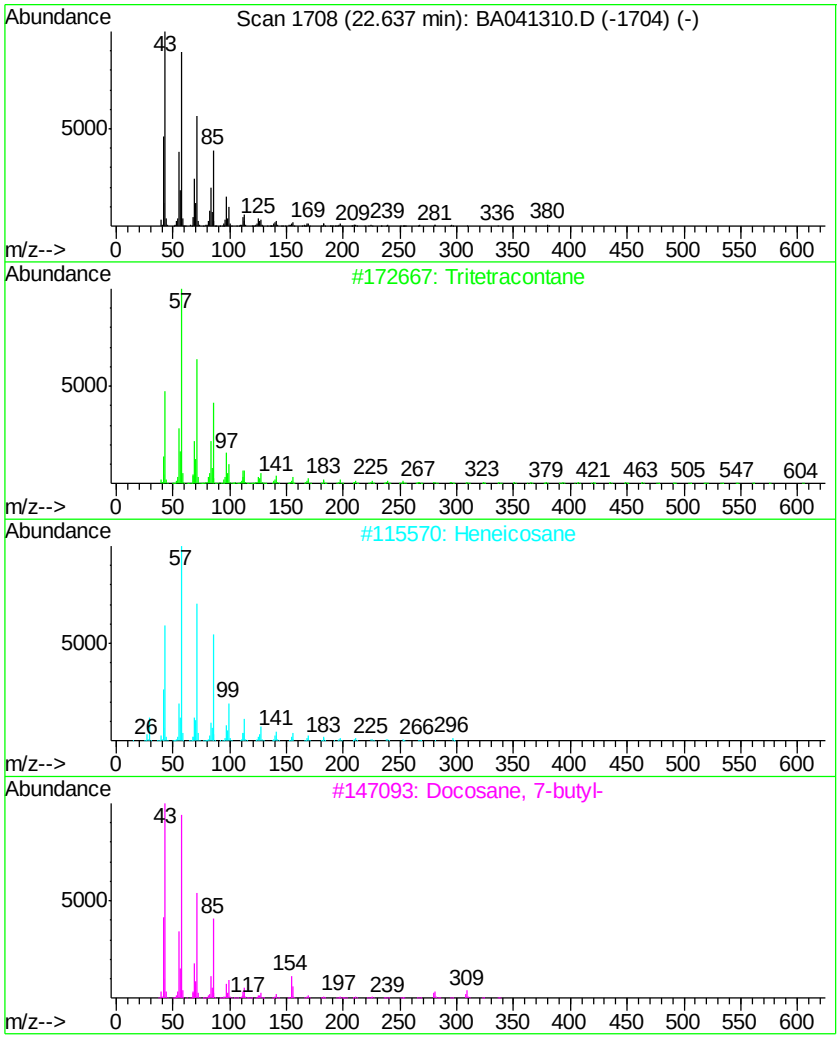
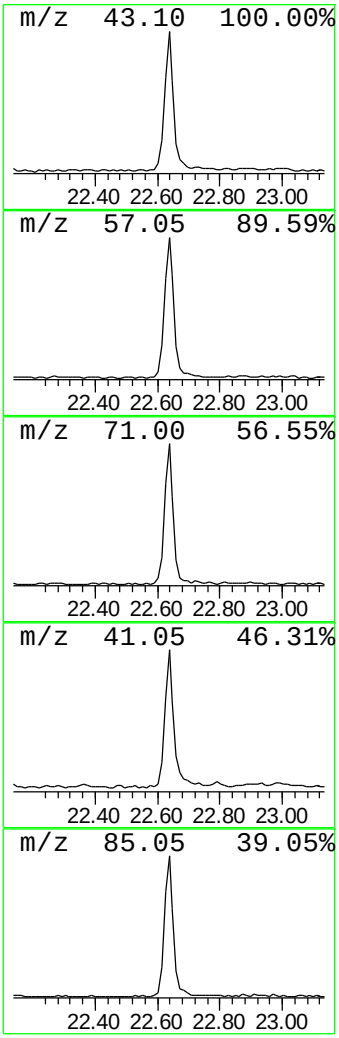
Peak Number 13 Tritetracontane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.64	25.58 ng/ul	2612660	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tritetracontane	605	C43H88	007098-21-7	91
2	Heneicosane	296	C21H44	000629-94-7	90
3	Docosane, 7-butyl-	366	C26H54	055282-15-0	80
4	Nonadecane	268	C19H40	000629-92-5	74
5	Eicosane	282	C20H42	000112-95-8	74





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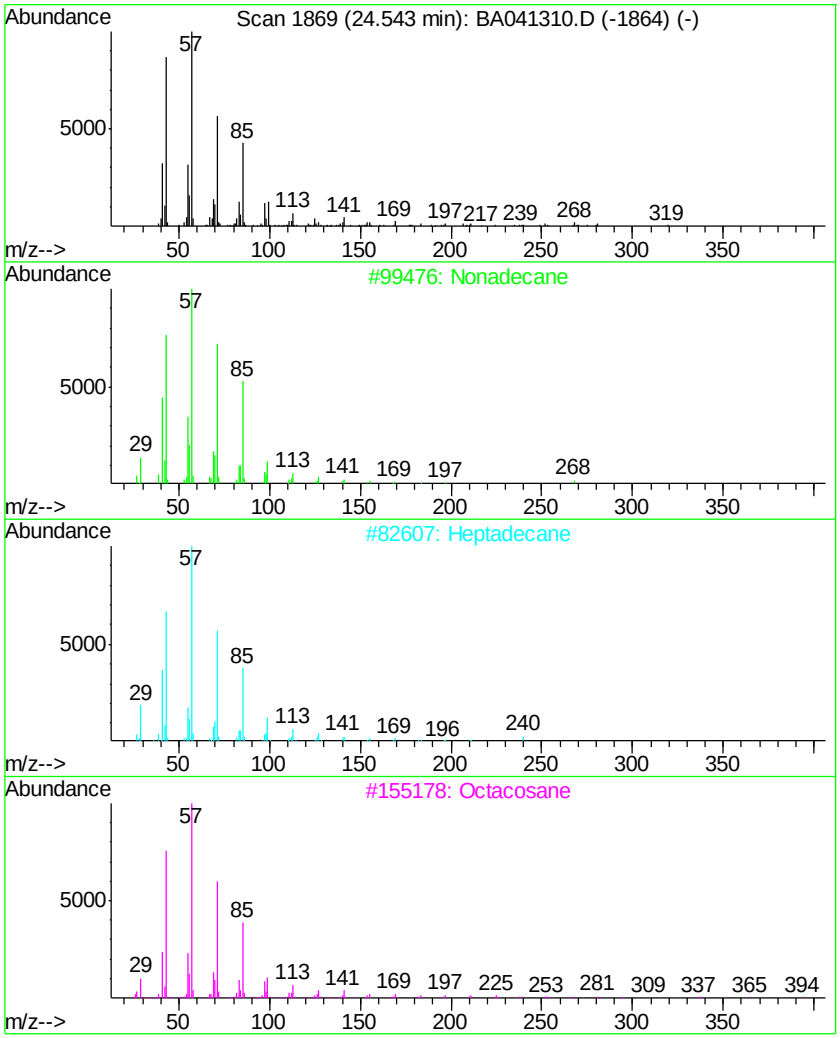
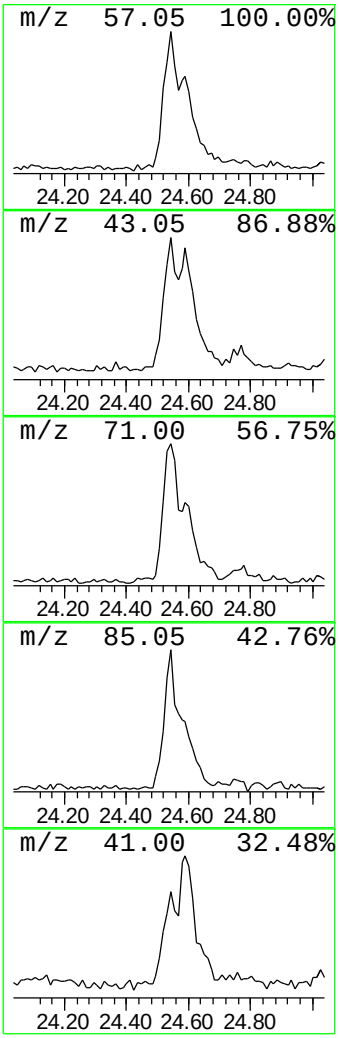
Peak Number 14 Nonadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.54	15.17 ng/ul	948493	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	96
2	Heptadecane	240	C17H36	000629-78-7	91
3	Octacosane	394	C28H58	000630-02-4	90
4	Pentadecane, 8-heptyl-	310	C22H46	071005-15-7	90
5	Tetratetracontane	619	C44H90	007098-22-8	87





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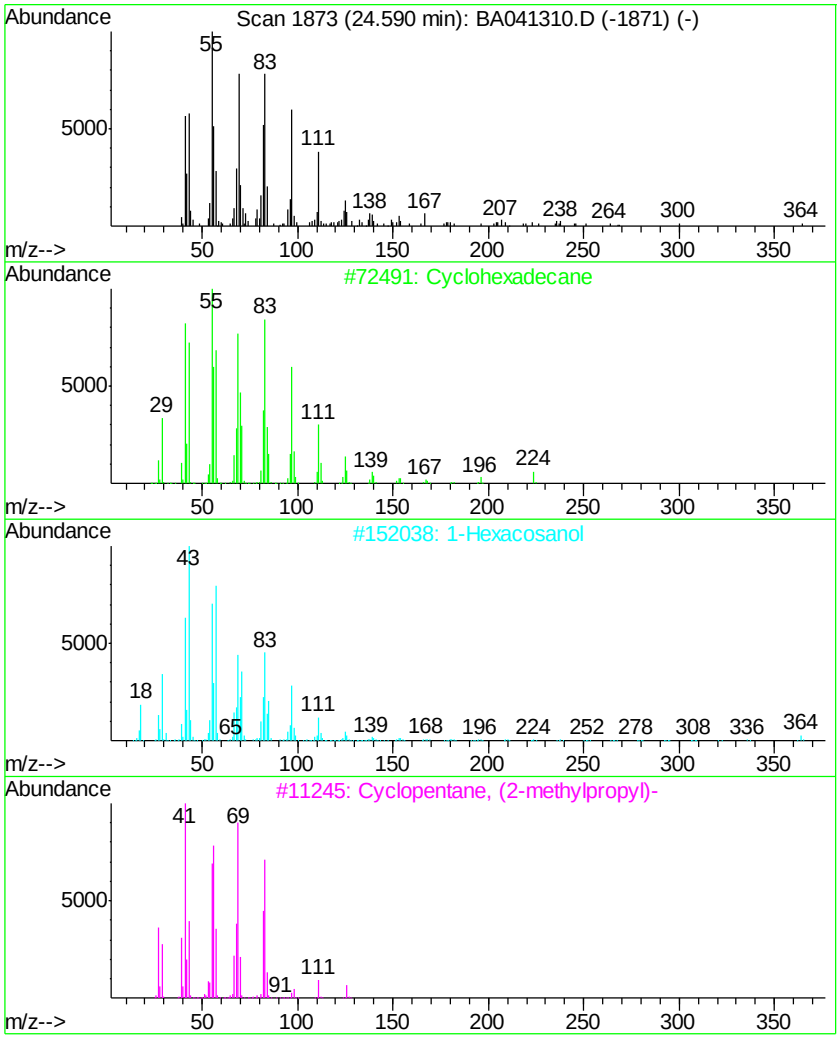
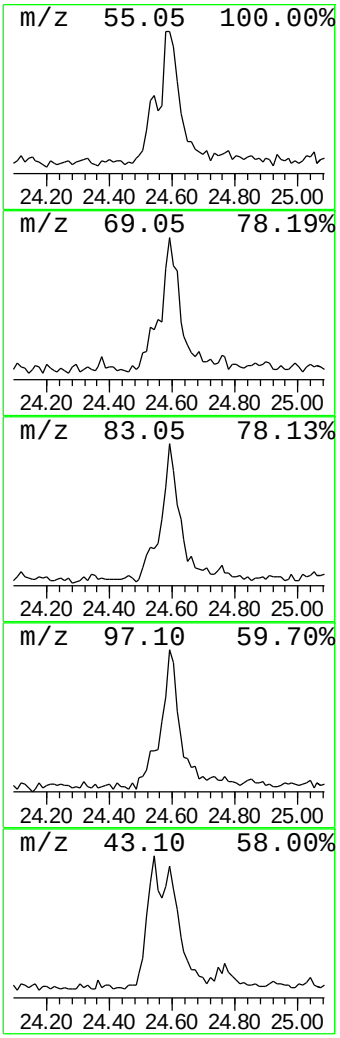
Peak Number 15 Cyclohexadecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.59	20.17 ng/ul	1260960	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexadecane	224	C16H32	000295-65-8	72
2	1-Hexacosanol	382	C26H54O	000506-52-5	64
3	Cyclopentane, (2-methylpropyl)-	126	C9H18	003788-32-7	62
4	1-Docosene	308	C22H44	001599-67-3	58
5	2,5-Dimethyl-1-pyrroline	97	C6H11N	000822-64-0	55





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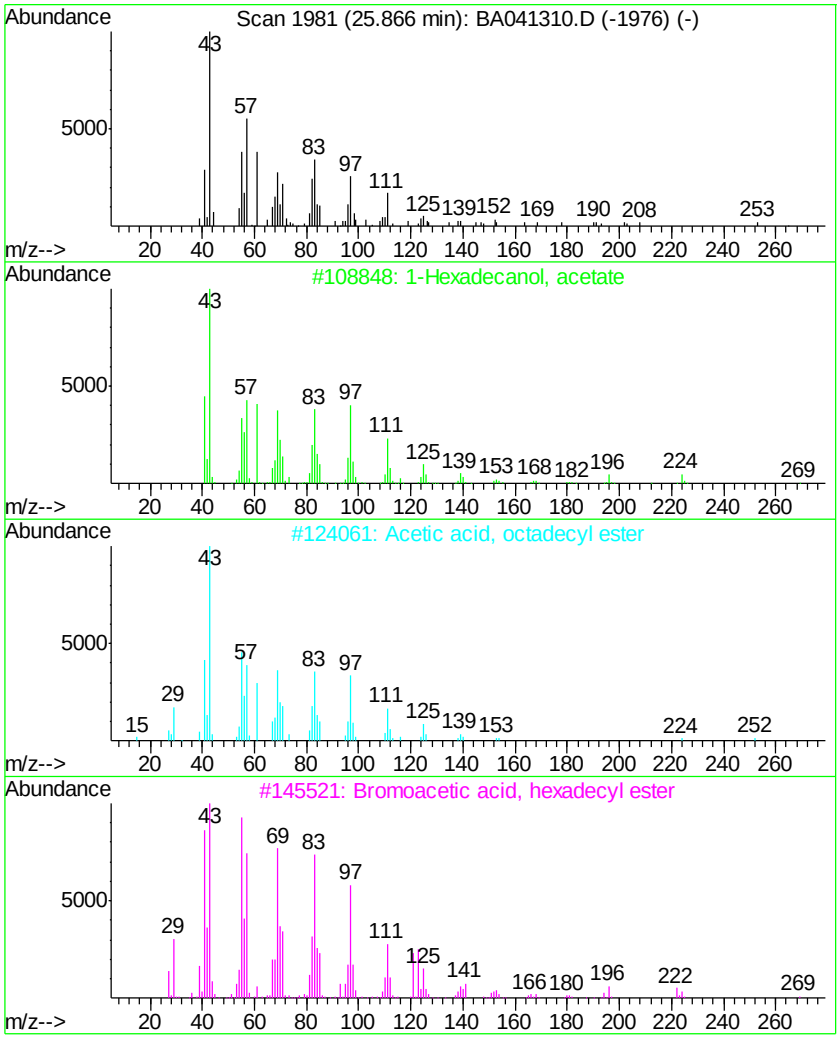
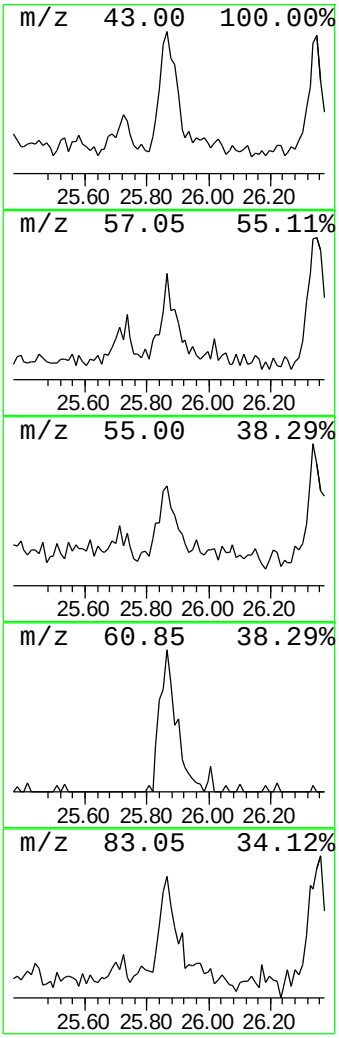
Peak Number 16 1-Hexadecanol, acetate Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.87	5.51 ng/ul	344704	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexadecanol, acetate	284	C18H36O2	000629-70-9	52
2	Acetic acid, octadecyl ester	312	C20H40O2	000822-23-1	52
3	Bromoacetic acid, hexadecyl ester	362	C18H35BrO2	005454-48-8	49
4	1-Eicosanol	298	C20H42O	000629-96-9	49
5	1-Hexacosanol	382	C26H54O	000506-52-5	49





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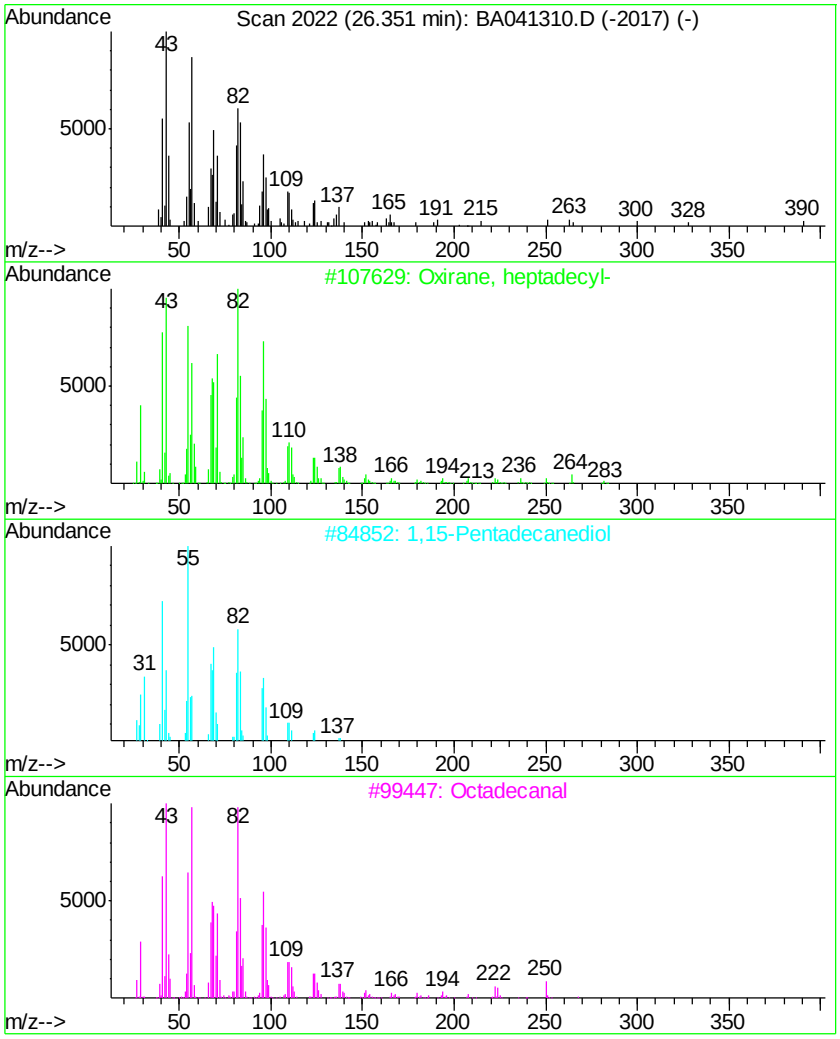
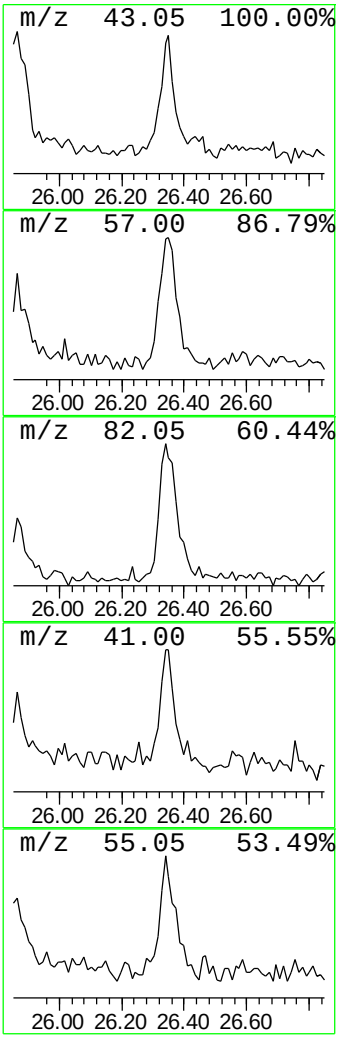
Peak Number 17 Oxirane, heptadecyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.35	9.79 ng/ul	612173	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	68
2	1,15-Pentadecanediol	244	C15H32O2	014722-40-8	64
3	Octadecanal	268	C18H36O	000638-66-4	59
4	Octadecanal	268	C18H36O	000638-66-4	58
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	58





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On    : 20 Oct 2008   4:58
Operator  : QM
Sample    : Z4920-12
Misc      :
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

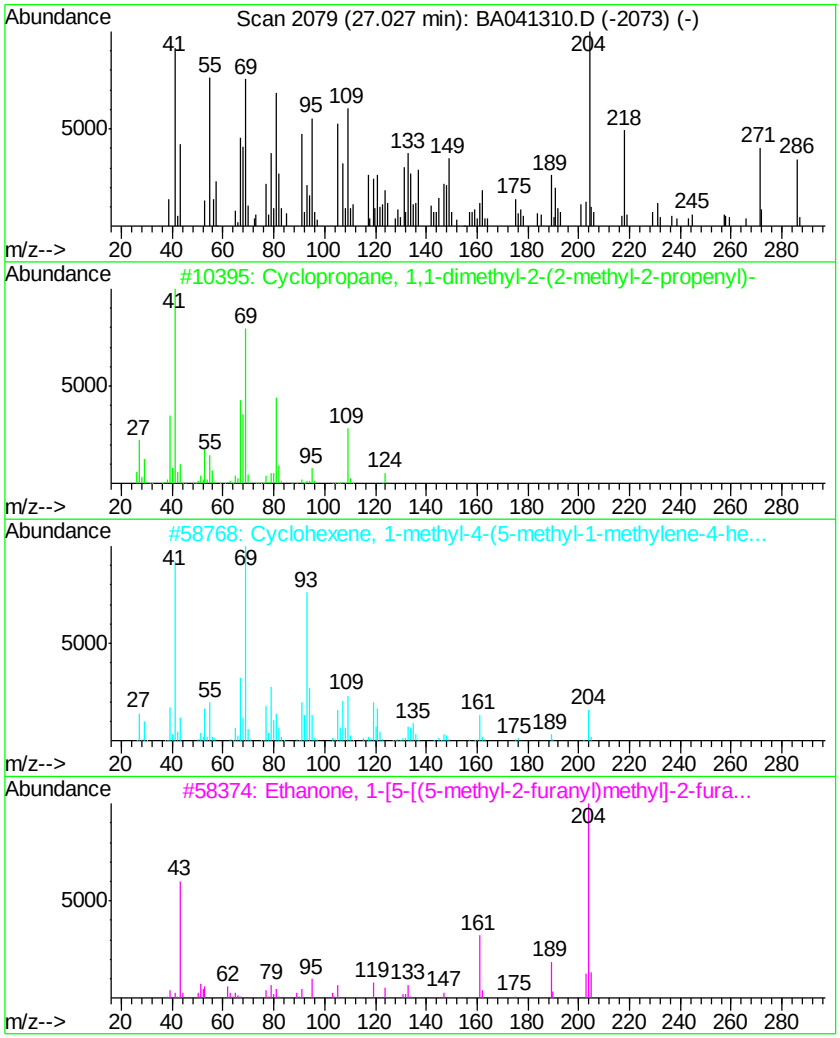
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

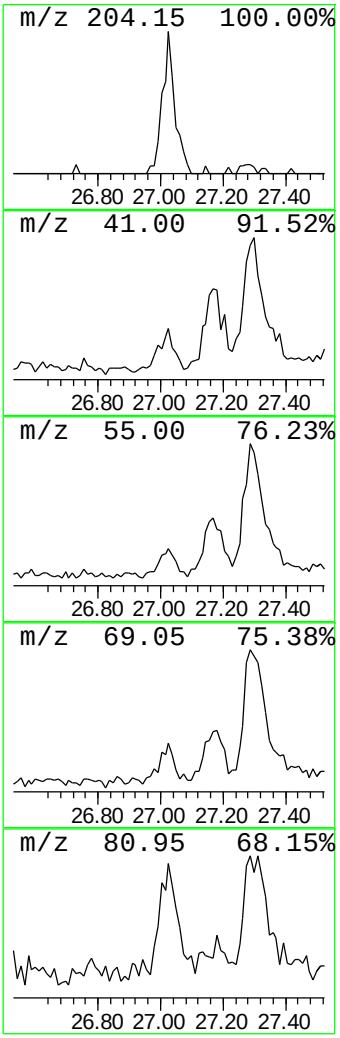
****

Peak Number 18 unknown27.03 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.03	7.56 ng/ul	472364	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,1-dimethyl-2-(2-...	124	C9H16	069147-03-1	35
2	Cyclohexene, 1-methyl-4-(5-methy...	204	C15H24	000495-61-4	35
3	Ethanone, 1-[5-[(5-methyl-2-fura...	204	C12H12O3	052805-85-3	25
4	1,4-Naphthalenedione, 5,8-dihydr...	204	C11H8O4	014554-09-7	25
5	1,5,9-Decatriene, 2,3,5,8-tetram...	192	C14H24	230646-72-7	14





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On    : 20 Oct 2008   4:58
Operator  : QM
Sample    : Z4920-12
Misc      :
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

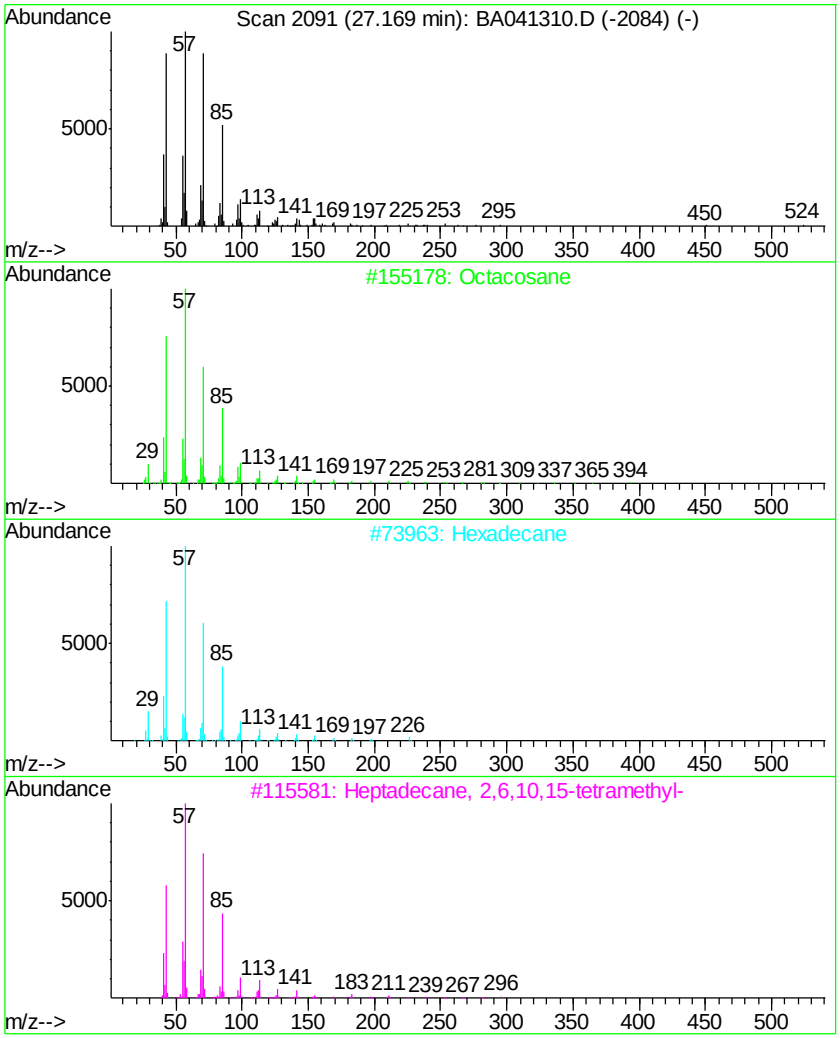
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

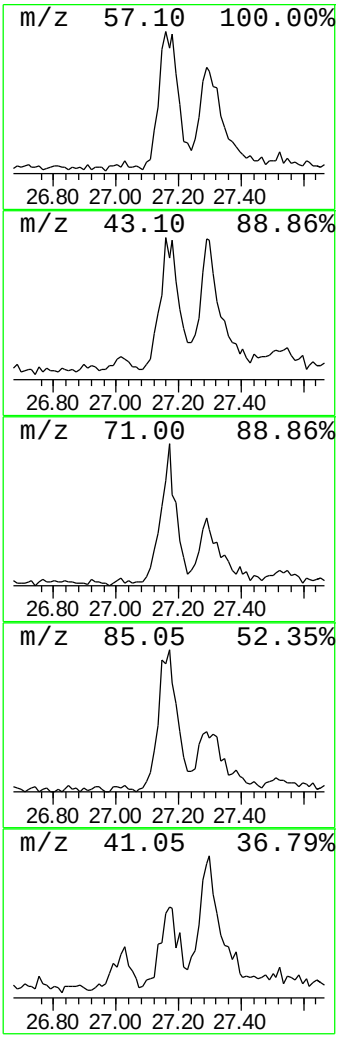
****

Peak Number 19 Octacosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.17	15.60 ng/ul	975122	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	87
2	Hexadecane	226	C16H34	000544-76-3	83
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	80
4	Tetradecane	198	C14H30	000629-59-4	80
5	Heptacosane	380	C27H56	000593-49-7	74





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

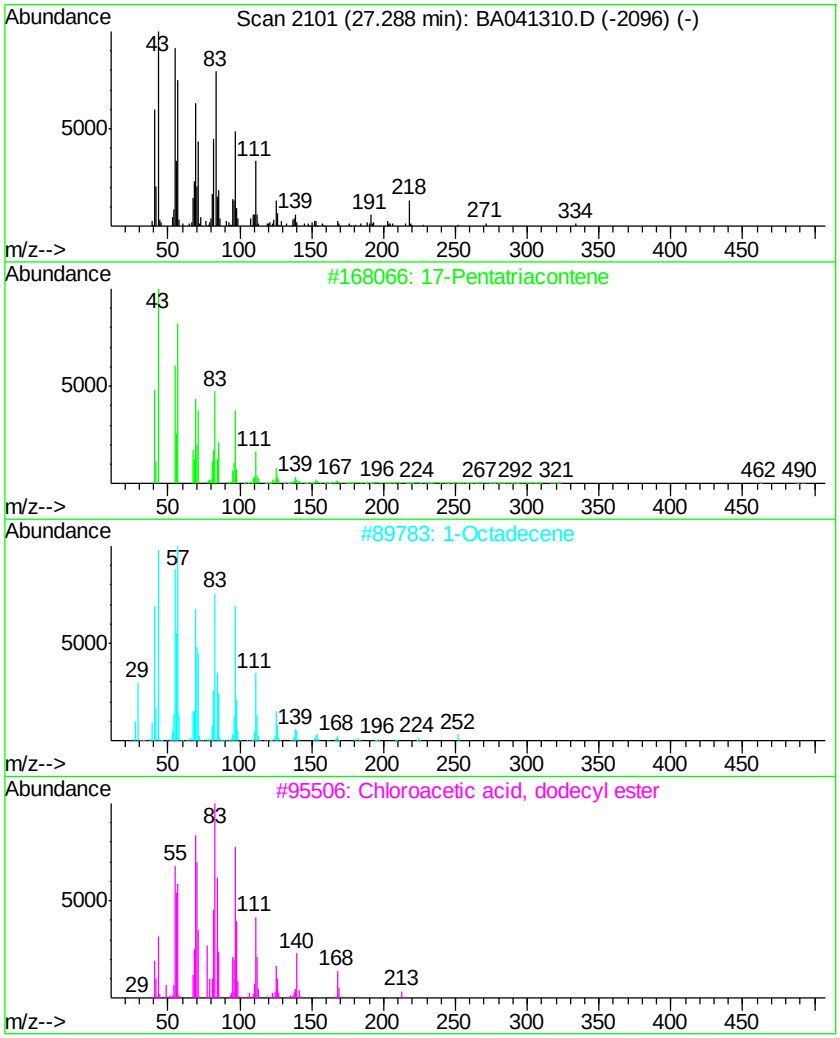
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

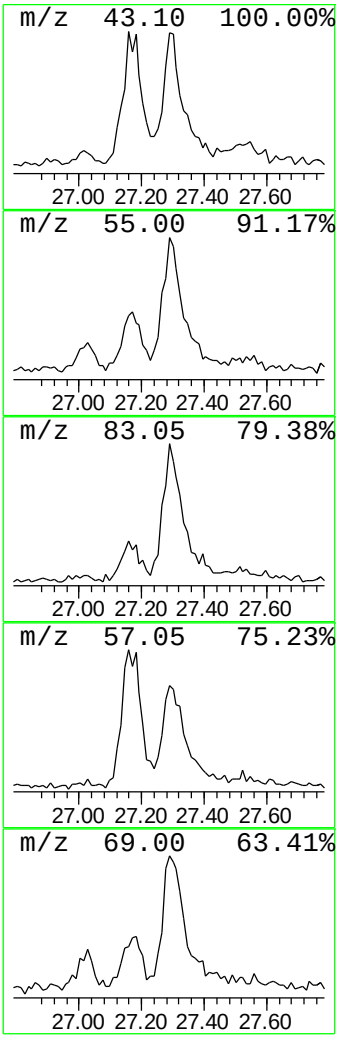
****

Peak Number 20 17-Pentatriacontene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.29	25.03 ng/ul	1564540	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	17-Pentatriacontene	491	C35H70	006971-40-0	83
2	1-Octadecene	252	C18H36	000112-88-9	64
3	Chloroacetic acid, dodecyl ester	262	C14H27ClO2	006316-04-7	64
4	1-Eicosanol	298	C20H42O	000629-96-9	60
5	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	58





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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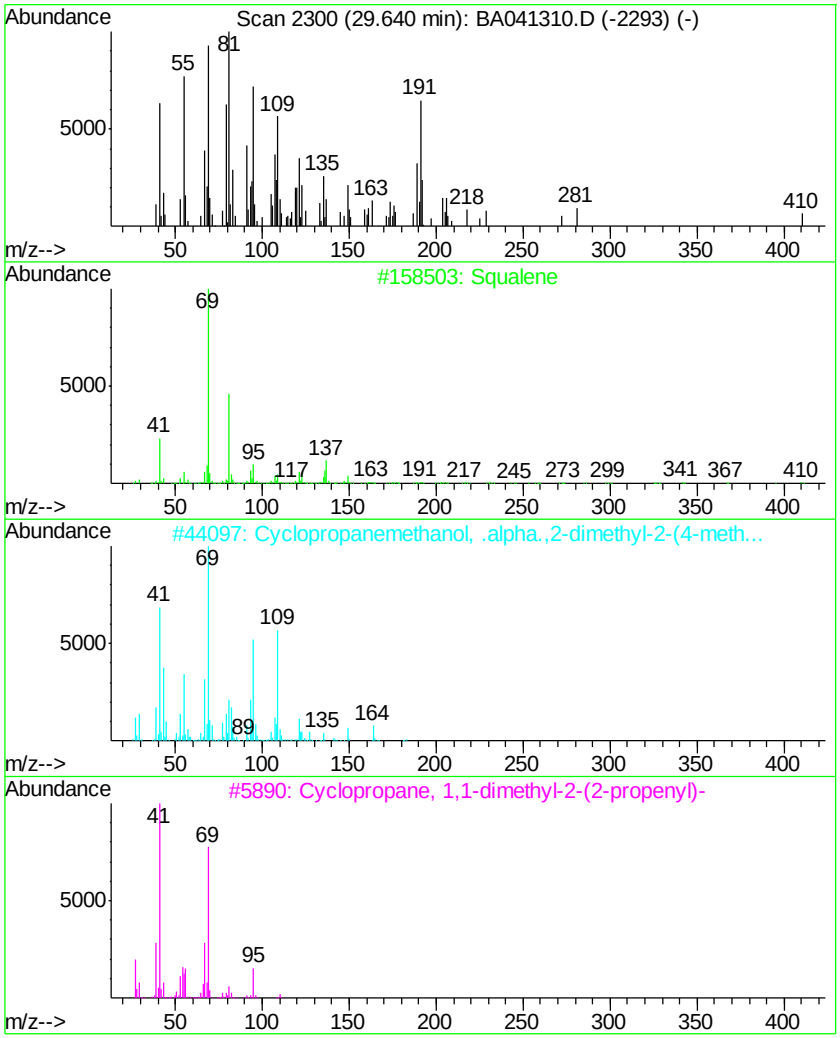
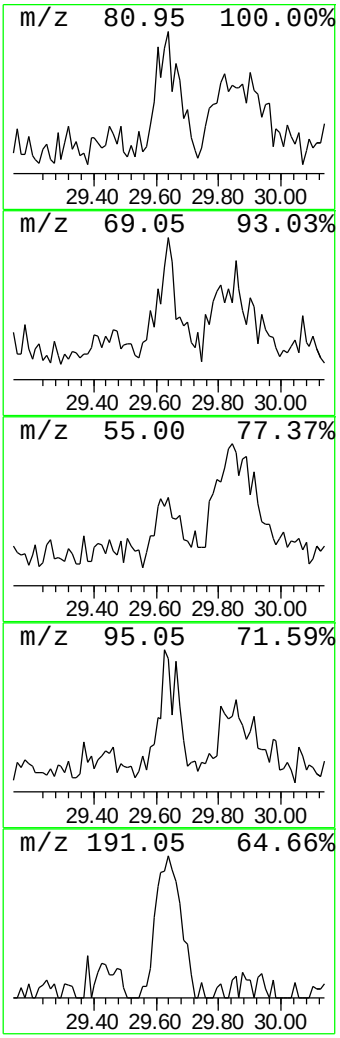
Peak Number 21 unknown29.64 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.64	6.31 ng/ul	394689	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	007683-64-9	43
2	Cyclopropanemethanol, .alpha.,2-...	182	C12H22O	121959-70-4	35
3	Cyclopropane, 1,1-dimethyl-2-(2-...	110	C8H14	036939-15-8	22
4	1-Decyne	138	C10H18	000764-93-2	22
5	Cycloprop[7,8]ergost-22-en-3-one...	410	C29H46O	053755-18-3	22





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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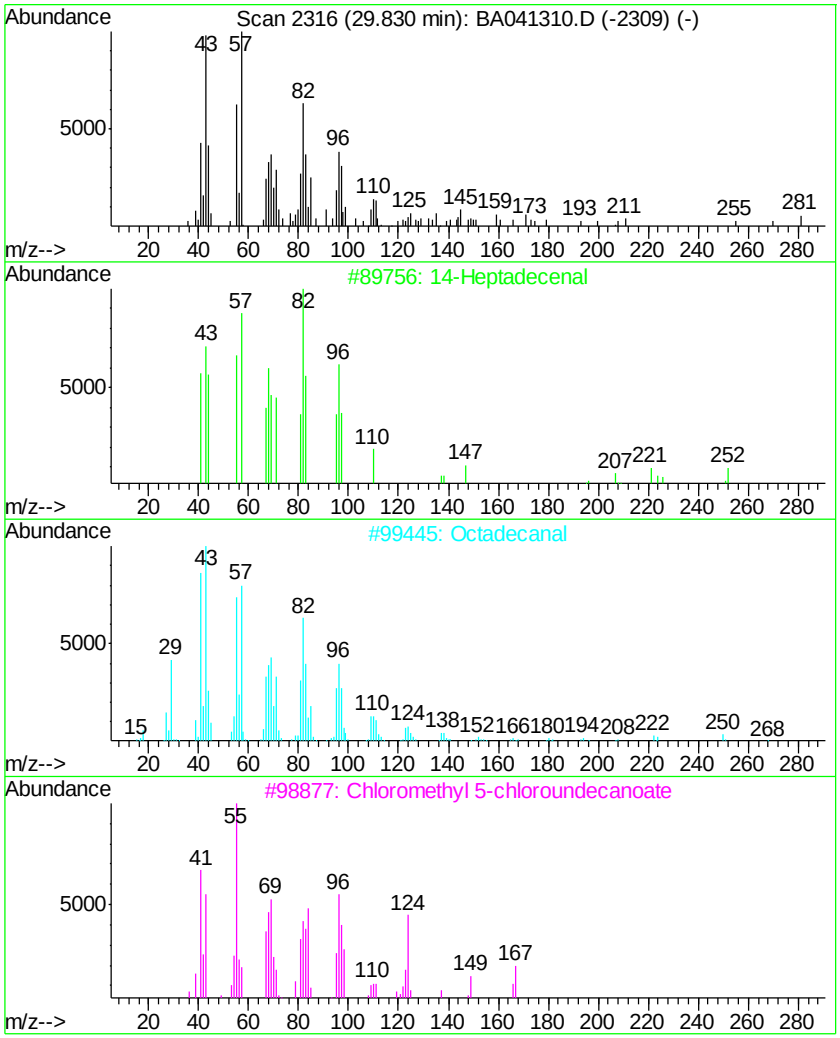
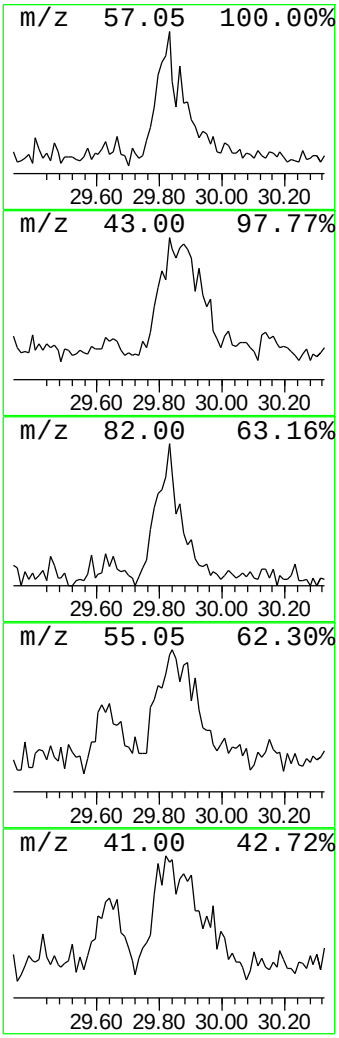
Peak Number 22 14-Heptadecenal Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
29.83	5.43 ng/ul	339549	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	14-Heptadecenal	252	C17H32O	1000144-58-0	58
2	Octadecanal	268	C18H36O	000638-66-4	58
3	Chloromethyl 5-chloroundecanoate	268	C12H22Cl2O2	080418-91-3	43
4	Octadecanoic acid, 3-hydroxy-2-t...	511	C33H66O3	018951-36-5	35
5	Eicosane, 9-cyclohexyl-	364	C26H52	004443-61-2	30





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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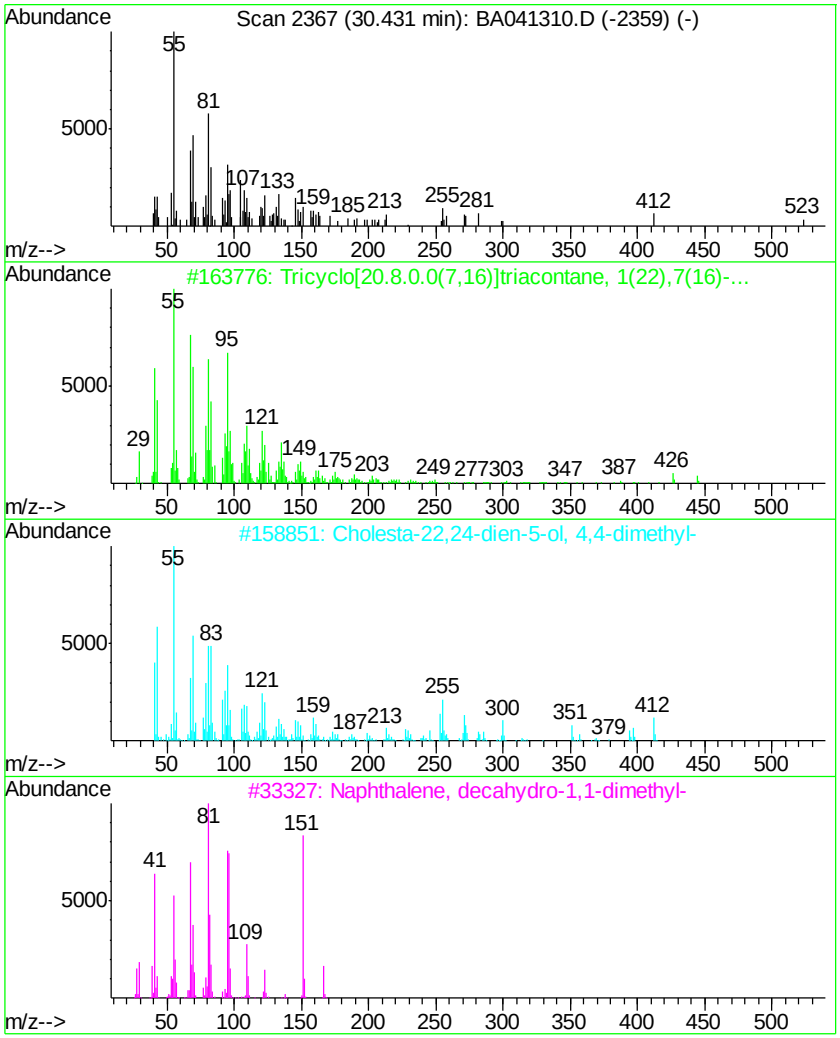
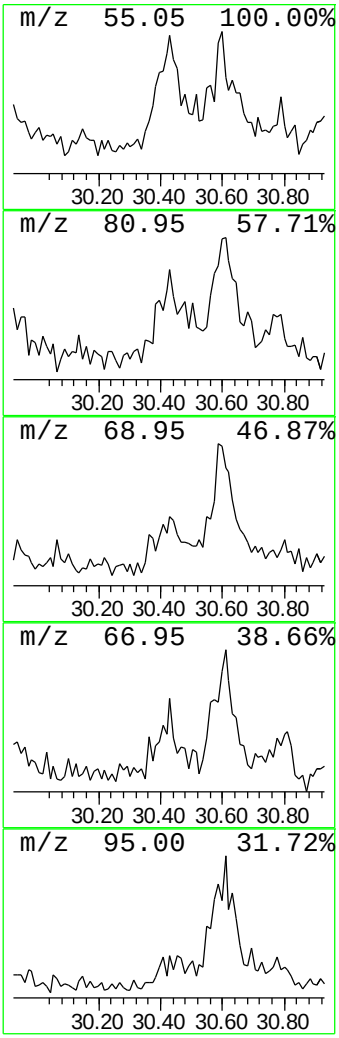
Peak Number 23 unknown30.43 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.43	7.69 ng/ul	480731	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[20.8.0.0(7,16)]triacont...	444	C30H52O2	1000155-90-7	46
2	Cholesta-22,24-dien-5-ol, 4,4-di...	412	C29H48O	1000128-66-1	35
3	Naphthalene, decahydro-1,1-dimet...	166	C12H22	035431-04-0	25
4	9-Octadecene, 1,1-dimethoxy-, (Z)-	312	C20H40O2	015677-71-1	25
5	Cyclopentaneethanol, 2-(hydroxym...	172	C10H20O2	000485-42-7	25





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

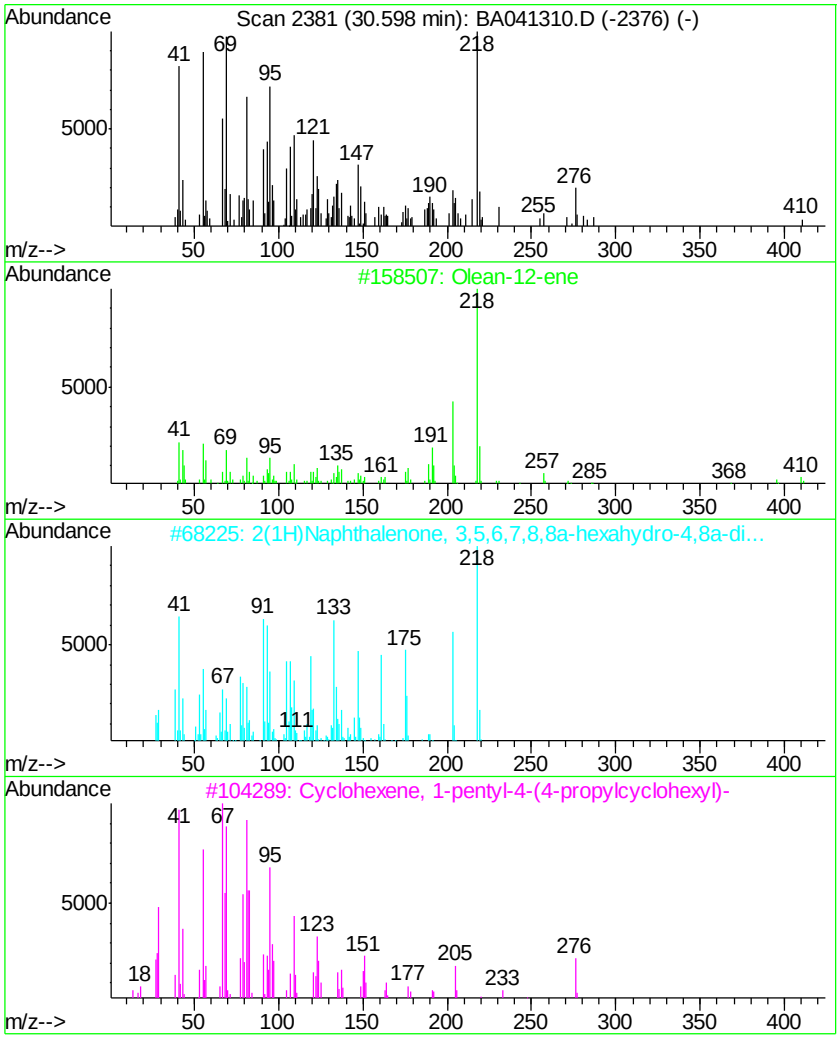
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

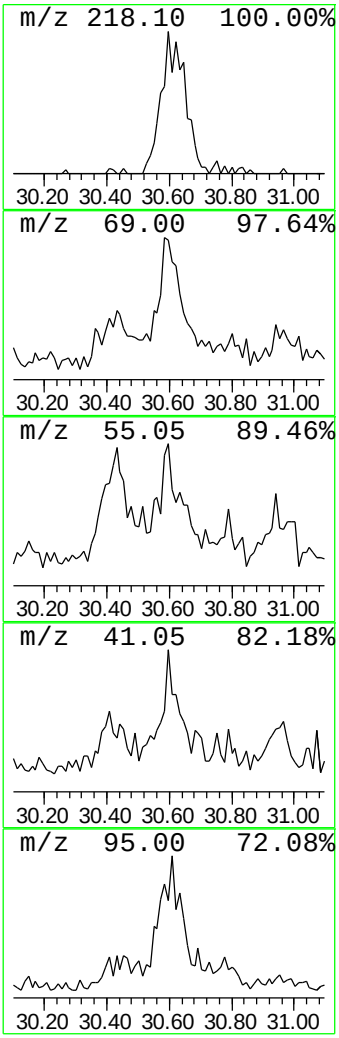
****

Peak Number 24 unknown30.60 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
30.60	12.54 ng/ul	784189	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Olean-12-ene	410	C30H50	000471-68-1	45
2	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	45
3	Cyclohexene, 1-pentyl-4-(4-propy...	276	C20H36	108067-20-5	42
4	3-(p-Tolyl-hydrazono)-pentane-2,...	218	C12H14N2O2	1000296-53-8	38
5	Pyrene, hexadecahydro-	218	C16H26	002435-85-0	25





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On    : 20 Oct 2008   4:58
Operator  : QM
Sample    : Z4920-12
Misc      :
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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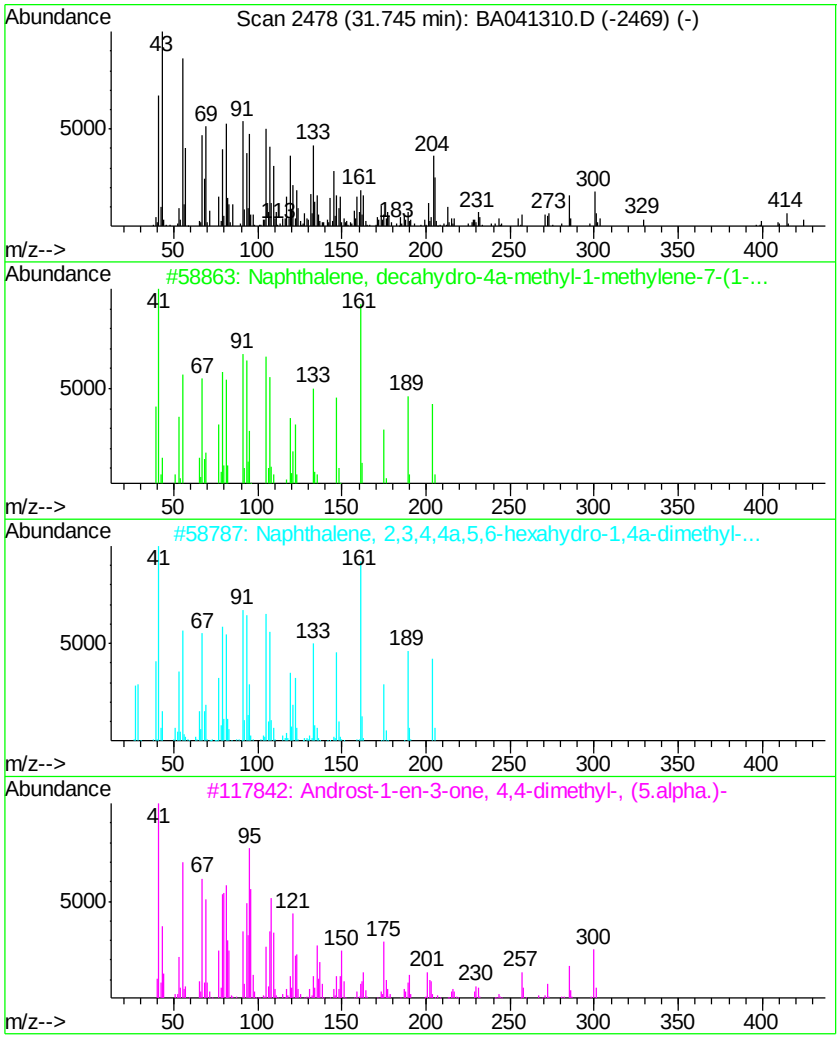
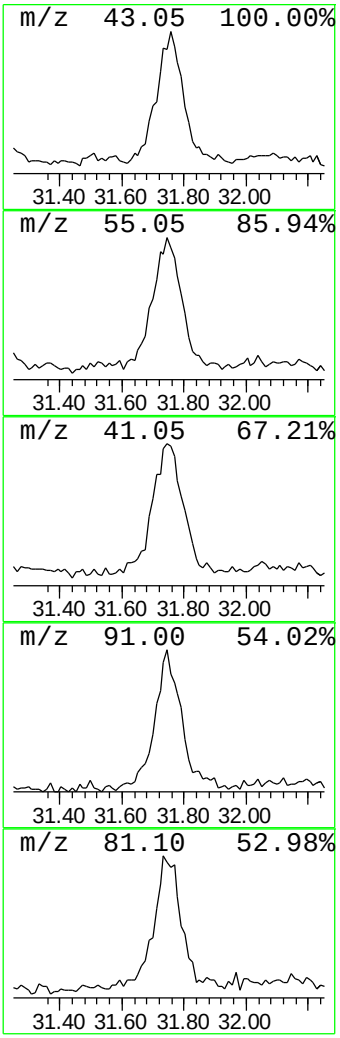
Peak Number 25 Naphthalene, decahydro-4a-m... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
31.75	64.39 ng/ul	4025270	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-4a-methyl...	204	C15H24	017066-67-0	53
2	Naphthalene, 2,3,4,4a,5,6-hexahy...	204	C15H24	000473-14-3	53
3	Androst-1-en-3-one, 4,4-dimethyl...	300	C21H32O	054550-04-8	50
4	1H-Cycloprop[e]azulene, decahydr...	206	C15H26	028580-43-0	44
5	Seychellene	204	C15H24	020085-93-2	43





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

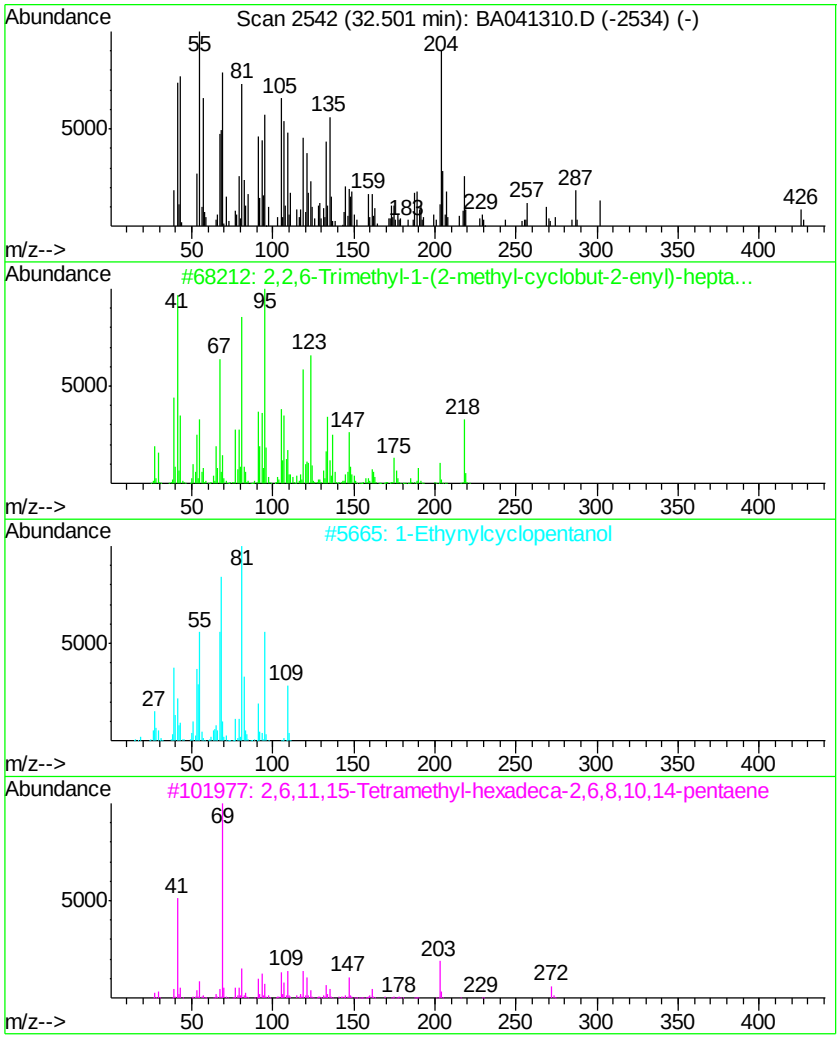
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

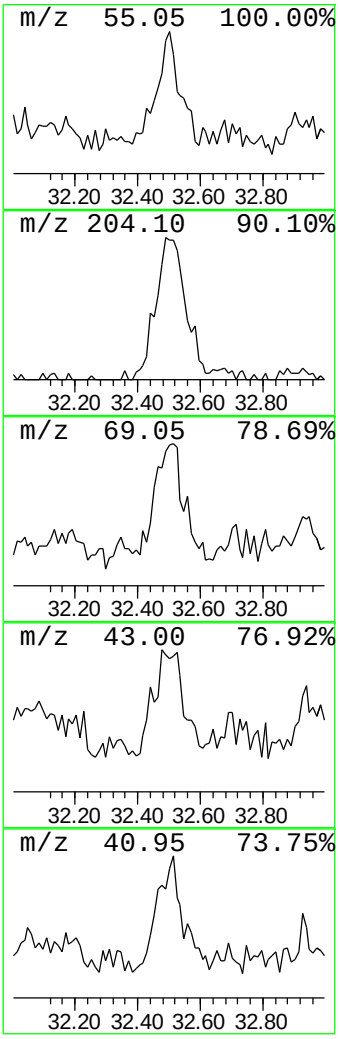
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 26 2,2,6-Trimethyl-1-(2-methyl... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
32.50	16.44 ng/ul	1027520	Perylene-d12	25.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	52
2	1-Ethynylcyclopentanol	110	C7H10O	017356-19-3	38
3	2,6,11,15-Tetramethyl-hexadeca-2...	272	C20H32	038259-79-9	38
4	1H-Cycloprop[e]azulene, 1a,2,3,4...	204	C15H24	000489-40-7	35
5	2R-Acetoxymethyl-1,3,3-trimethyl...	282	C17H30O3	1000144-12-4	35





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041310.D
Acq On : 20 Oct 2008 4:58
Operator : QM
Sample : Z4920-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Methacrylamide	3.07	4.2	ng/ul	316589	1	6.69	1519530	20.0
1-Pentene, 3-ethyl-	3.53	4.2	ng/ul	320176	1	6.69	1519530	20.0
(E)-1,3-Butadien-...	3.93	4.0	ng/ul	300927	1	6.69	1519530	20.0
2-Pentanone, 4-hy...	4.16	6.5	ng/ul	496847	1	6.69	1519530	20.0
Benzoic Acid	8.58	2.4	ng/ul	210592	2	9.09	1735980	20.0
unknown16.87	16.87	2.3	ng/ul	260705	4	15.77	2263270	20.0
Hexadecenoic acid...	16.94	3.9	ng/ul	443112	4	15.77	2263270	20.0
n-Hexadecanoic acid	17.04	14.3	ng/ul	1617950	4	15.77	2263270	20.0
1,3-Propanedione,...	18.21	3.5	ng/ul	400789	4	15.77	2263270	20.0
Octadecanoic acid	18.67	2.3	ng/ul	230880	5	21.31	2042370	20.0
Tricosane	19.72	2.6	ng/ul	267689	5	21.31	2042370	20.0
Heptadecane	21.13	30.1	ng/ul	3070090	5	21.31	2042370	20.0
Tritetracontane	22.64	25.6	ng/ul	2612660	5	21.31	2042370	20.0
Nonadecane	24.54	15.2	ng/ul	948493	6	25.14	1250230	20.0
Cyclohexadecane	24.59	20.2	ng/ul	1260960	6	25.14	1250230	20.0
1-Hexadecanol, ac...	25.87	5.5	ng/ul	344704	6	25.14	1250230	20.0
Oxirane, heptadecyl-	26.35	9.8	ng/ul	612173	6	25.14	1250230	20.0
unknown27.03	27.03	7.6	ng/ul	472364	6	25.14	1250230	20.0
Octacosane	27.17	15.6	ng/ul	975122	6	25.14	1250230	20.0
17-Pentatriacontene	27.29	25.0	ng/ul	1564540	6	25.14	1250230	20.0
unknown29.64	29.64	6.3	ng/ul	394689	6	25.14	1250230	20.0
14-Heptadecenal	29.83	5.4	ng/ul	339549	6	25.14	1250230	20.0
unknown30.43	30.43	7.7	ng/ul	480731	6	25.14	1250230	20.0
unknown30.60	30.60	12.5	ng/ul	784189	6	25.14	1250230	20.0
Naphthalene, deca...	31.75	64.4	ng/ul	4025270	6	25.14	1250230	20.0
2,2,6-Trimethyl-1...	32.50	16.4	ng/ul	1027520	6	25.14	1250230	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-1B

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-13

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041307.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 18.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.98 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	100	U
108-95-2	Phenol	100	U
111-44-4	Bis(2-chloroethyl)ether	100	U
95-57-8	2-Chlorophenol	100	U
95-48-7	2-Methylphenol	100	U
108-60-1	2,2'-Oxybis(1-chloropropane)	100	U
98-86-2	Acetophenone	33	J
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-di-n-propylamine	100	U
67-72-1	Hexachloroethane	100	U
98-95-3	Nitrobenzene	100	U
78-59-1	Isophorone	100	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	100	U
111-91-1	Bis(2-chloroethoxy)methane	100	U
120-83-2	2,4-Dichlorophenol	100	U
91-20-3	Naphthalene	100	U
106-47-8	4-Chloroaniline	100	U
87-68-3	Hexachlorobutadiene	100	U
105-60-2	Caprolactam	100	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
92-52-4	1,1'-Biphenyl	100	U
91-58-7	2-Chloronaphthalene	100	U
88-74-4	2-Nitroaniline	200	U
131-11-3	Dimethylphthalate	100	U
606-20-2	2,6-Dinitrotoluene	100	U
208-96-8	Acenaphthylene	100	U
99-09-2	3-Nitroaniline	200	U
83-32-9	Acenaphthene	100	U
51-28-5	2,4-Dinitrophenol	200	U
100-02-7	4-Nitrophenol	200	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3-1B

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-13

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041307.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 18.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.98 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	100	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
86-73-7	Fluorene	100	U
7005-72-3	4-Chlorophenyl-phenylether	100	U
100-01-6	4-Nitroaniline	200	U
534-52-1	4,6-Dinitro-2-methylphenol	200	U
86-30-6	N-Nitrosodiphenylamine[1]	100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U
101-55-3	4-Bromophenyl-phenylether	100	U
118-74-1	Hexachlorobenzene	100	U
1912-24-9	Atrazine	100	U
87-86-5	Pentachlorophenol	200	U
85-01-8	Phenanthrene	100	U
120-12-7	Anthracene	100	U
86-74-8	Carbazole	100	U
84-74-2	Di-n-butylphthalate	100	U
206-44-0	Fluoranthene	100	U
129-00-0	Pyrene	100	U
85-68-7	Butylbenzylphthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	100	U
56-55-3	Benzo(a)anthracene	100	U
218-01-9	Chrysene	100	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	U
117-84-0	Di-n-octylphthalate	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U
58-90-2	2,3,4,6-Tetrachlorophenol	100	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC3-1B

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: Z4920-13

Sample wt/vol: 30.1 (g/mL) g Lab File ID: BA041307.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 18.0 Decanted: (Y/N): N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 6.98 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

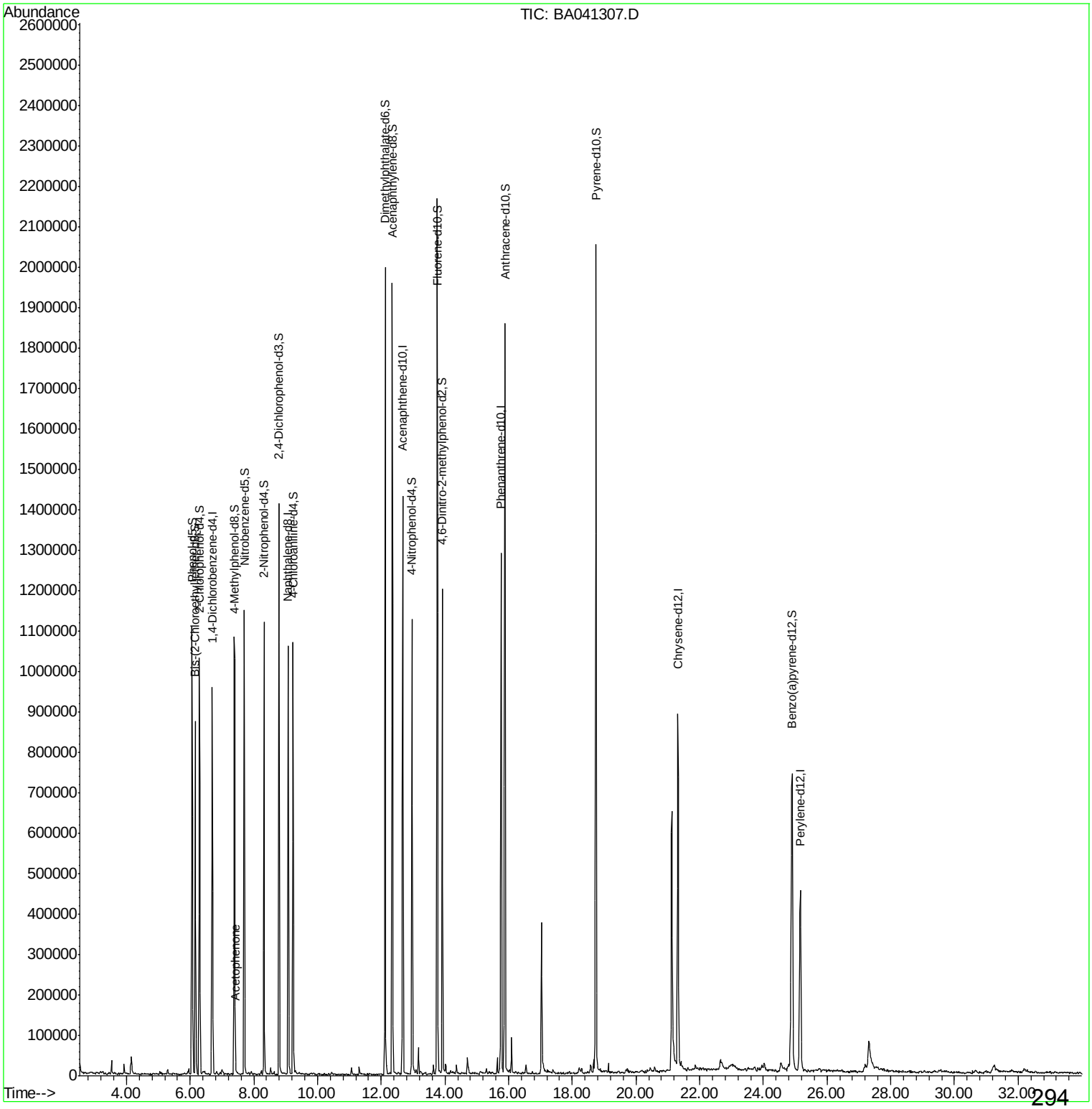
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	57-10-3	n-Hexadecanoic acid	17.03	240	JNB
02.	1599-67-3	1-Docosene	21.12	720	JN
03.	85006-04-8	1,6-Octadiene, 5,7-dimethyl-, (	27.31	230	JN
04.					
05.					
06.					
07.					
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

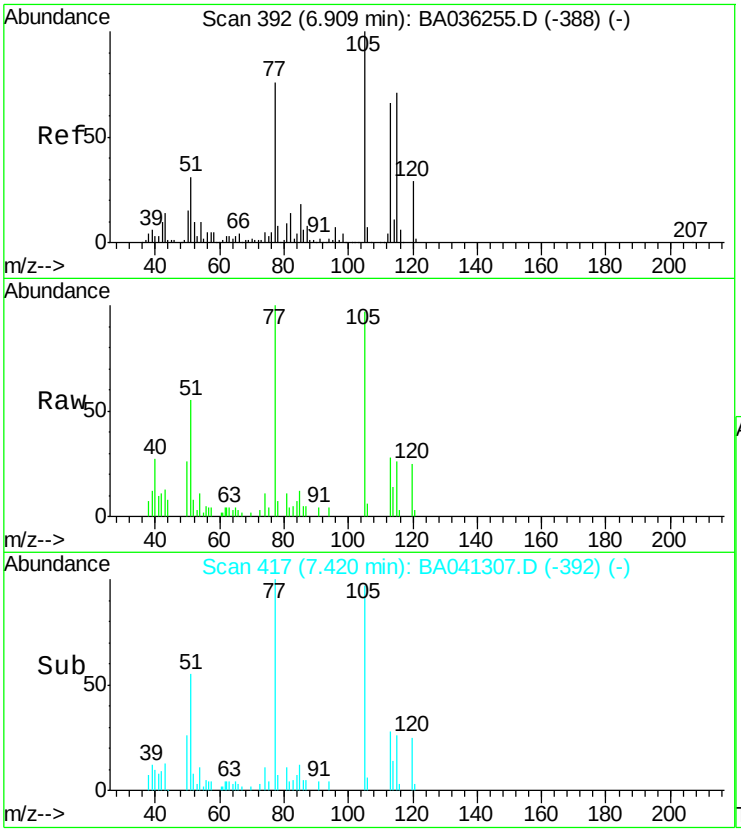
[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On : 20 Oct 2008 2:55
Operator : QM
Sample : Z4920-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 12:20:12 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

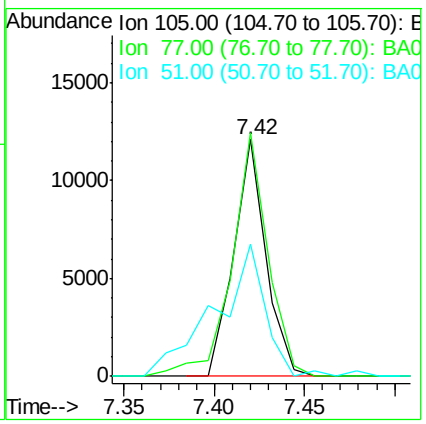




#12
Acetophenone
Concen: 0.81 ng/ul
RT: 7.42 min Scan# 417
Delta R.T. -0.00 min
Lab File: BA041307.D
Acq: 20 Oct 2008 2:55

Tgt Ion:105 Resp: 14997

Ion	Ratio	Lower	Upper
105	100		
77	102.8	69.4	104.2
51	56.1	42.1	63.1



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On : 20 Oct 2008 2:55
Operator : QM
Sample : Z4920-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 20 12:20:12 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	229295	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	752441	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.67	164	517785	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.76	188	890433	20.00	ng/ul	0.00
73) Chrysene-d12	21.31	240	654195	20.00	ng/ul	0.02
81) Perylene-d12	25.16	264	596219	20.00	ng/ul	0.09
System Monitoring Compounds						
3) Phenol-d5	6.06	99	433097	31.20	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	294241	31.26	ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	389216	32.99	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	296156	31.44	ng/ul	0.00
17) Nitrobenzene-d5	7.70	128	216047	32.43	ng/ul	0.01
20) 2-Nitrophenol-d4	8.32	143	254397	31.02	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.79	165	414605	27.32	ng/ul	0.00
27) 4-Chloroaniline-d4	9.23	131	379396	25.28	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	1187208	34.43	ng/ul	0.00
44) Acenaphthylene-d8	12.35	160	1371206	32.71	ng/ul	0.00
49) 4-Nitrophenol-d4	12.97	143	245828	34.98	ng/ul	0.00
55) Fluorene-d10	13.76	176	920937	33.21	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.92	200	258494	28.05	ng/ul	0.00
68) Anthracene-d10	15.89	188	1348854	31.64	ng/ul	0.03
74) Pyrene-d10	18.74	212	1501187	52.51	ng/ul	0.02
85) Benzo(a)pyrene-d12	24.90	264	1076243	33.15	ng/ul	0.09
Target Compounds						Qvalue
12) Acetophenone	7.42	105	14997	0.81	ng/ul	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On : 20 Oct 2008 2:55
Operator : QM
Sample : Z4920-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.189	53	57	60	rBV4	4825	14404	0.37%	0.027%
2	3.529	83	86	89	rVV	34680	68624	1.77%	0.129%
3	3.918	117	119	125	rBV	25424	45565	1.17%	0.086%
4	4.153	135	139	144	rBV3	42959	96407	2.48%	0.181%
5	5.046	213	215	218	rBV3	8127	18421	0.47%	0.035%
6	5.292	234	236	240	rVB3	11261	20621	0.53%	0.039%
7	5.962	286	293	295	rBV4	14360	34122	0.88%	0.064%
8	6.057	298	301	307	rVV	1106889	1779863	45.79%	3.341%
9	6.162	307	310	318	rVB	874897	1236337	31.81%	2.321%
10	6.290	318	321	327	rBV	1032407	1749573	45.01%	3.284%
11	6.408	327	331	333	rVV	7104	14523	0.37%	0.027%
12	6.691	352	355	361	rVV	958320	1539321	39.60%	2.890%
13	6.832	364	367	372	rVB3	7867	17052	0.44%	0.032%
14	6.996	378	381	387	rVB3	12336	37356	0.96%	0.070%
15	7.385	411	414	422	rBV	1081843	1907929	49.09%	3.582%
16	7.703	437	441	444	rBV	1147865	1841257	47.37%	3.456%
17	7.915	456	459	462	rBV2	9109	17847	0.46%	0.034%
18	8.316	490	493	496	rBV	1116896	1701290	43.77%	3.194%
19	8.528	509	511	515	rVV2	16473	27167	0.70%	0.051%
20	8.633	518	520	523	rVB2	8333	13216	0.34%	0.025%
21	8.785	530	533	537	rBV	1412838	2174793	55.95%	4.082%
22	9.079	555	558	562	rBV	1057275	1714546	44.11%	3.218%
23	9.232	567	571	574	rBV	1067210	1526091	39.26%	2.865%
24	11.065	723	727	730	rBV2	18705	33426	0.86%	0.063%
25	11.313	744	748	751	rVV2	19889	37973	0.98%	0.071%
26	11.383	751	754	758	rVV	4152	12495	0.32%	0.023%
27	12.122	813	817	820	rBV	1996174	2990960	76.95%	5.615%
28	12.345	832	836	839	rBV	1957391	2991570	76.97%	5.616%
29	12.534	848	852	855	rBV3	5973	13694	0.35%	0.026%
30	12.674	860	864	867	rBV	1429106	2152473	55.38%	4.041%
31	12.969	885	889	897	rBV	1124982	1983897	51.04%	3.724%
32	13.099	897	900	903	rVV3	12781	25976	0.67%	0.049%
33	13.169	903	906	909	rVV2	66114	100944	2.60%	0.189%
34	13.240	909	912	915	rVV3	7716	18578	0.48%	0.035%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On : 20 Oct 2008 2:55
Operator : QM
Sample : Z4920-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.358	917	922	924	rVV3	4371	13262	0.34%	0.025%
36	13.641	943	946	948	rBV	21970	30860	0.79%	0.058%
37	13.759	951	956	959	rBV	2166176	3398526	87.44%	6.380%
38	13.924	966	970	973	rBV	1197862	1786784	45.97%	3.354%
39	14.018	976	978	984	rVB	24393	44807	1.15%	0.084%
40	14.182	988	992	995	rBV3	10084	23347	0.60%	0.044%
41	14.358	1004	1007	1011	rBV2	22335	43936	1.13%	0.082%
42	14.711	1033	1037	1038	rBV	41074	64819	1.67%	0.122%
43	15.111	1068	1071	1077	rBV3	8658	35502	0.91%	0.067%
44	15.300	1084	1087	1091	rVB5	14745	31090	0.80%	0.058%
45	15.382	1091	1094	1096	rBV2	6808	13583	0.35%	0.025%
46	15.641	1113	1116	1119	rBV	40015	67855	1.75%	0.127%
47	15.712	1119	1122	1123	rVV	21784	34981	0.90%	0.066%
48	15.760	1123	1126	1130	rVV	1286270	2300272	59.18%	4.318%
49	15.890	1132	1137	1140	rVV	1853715	3549795	91.33%	6.664%
50	16.031	1146	1149	1151	rVB4	8859	19830	0.51%	0.037%
51	16.090	1151	1154	1157	rBV3	87073	129205	3.32%	0.243%
52	16.231	1163	1166	1170	rVB3	6439	16921	0.44%	0.032%
53	16.537	1190	1192	1195	rVV3	22204	38141	0.98%	0.072%
54	17.032	1231	1234	1243	rBV2	373944	679800	17.49%	1.276%
55	17.397	1261	1265	1269	rBV3	9456	24763	0.64%	0.046%
56	17.916	1305	1309	1311	rVB2	7602	16675	0.43%	0.031%
57	18.210	1331	1334	1338	rBV6	13765	42765	1.10%	0.080%
58	18.281	1338	1340	1345	rVB4	12653	33961	0.87%	0.064%
59	18.576	1360	1365	1368	rBV2	20516	46144	1.19%	0.087%
60	18.671	1371	1373	1375	rBV2	31652	52662	1.35%	0.099%
61	18.742	1375	1379	1386	rVV	2045789	3886719	100.00%	7.296%
62	18.990	1397	1400	1402	rVV3	6124	15942	0.41%	0.030%
63	19.049	1402	1405	1410	rVV4	6235	21506	0.55%	0.040%
64	19.132	1410	1412	1416	rVV	24152	43585	1.12%	0.082%
65	19.463	1436	1440	1443	rVB4	5526	16175	0.42%	0.030%
66	19.685	1456	1459	1461	rVV3	7638	18071	0.46%	0.034%
67	19.732	1461	1463	1465	rVV3	10721	19306	0.50%	0.036%
68	20.191	1496	1502	1505	rBV6	5743	23185	0.60%	0.044%
69	20.357	1513	1516	1519	rBV4	9934	26056	0.67%	0.049%
70	20.451	1522	1524	1528	rVV2	11094	19093	0.49%	0.036%
71	20.581	1533	1535	1540	rVB3	12212	26986	0.69%	0.051%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On : 20 Oct 2008 2:55
Operator : QM
Sample : Z4920-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

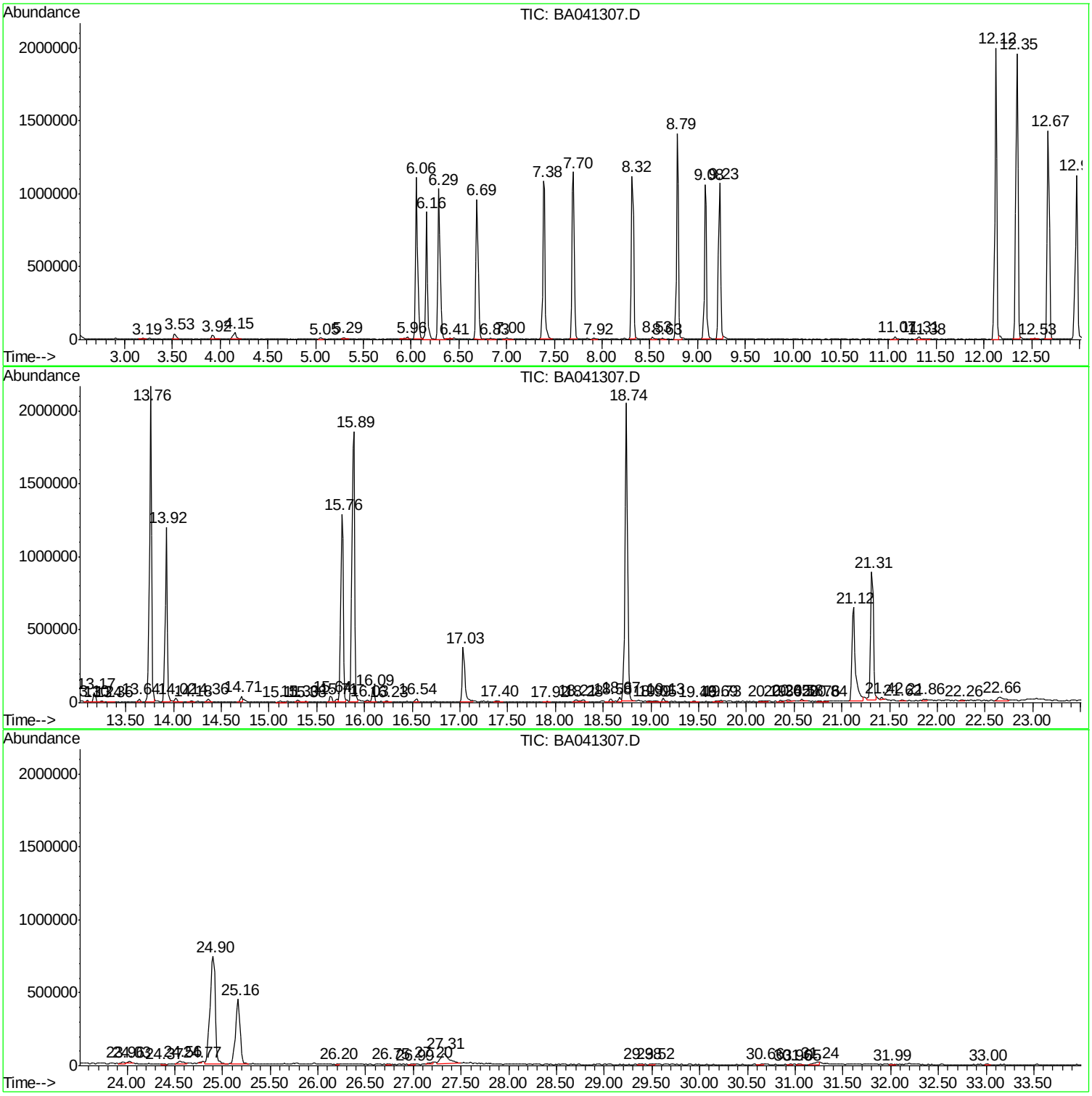
72	20.758	1548	1550	1554	rBV3	5735	14011	0.36%	0.026%
73	20.840	1554	1557	1559	rBV4	5692	16358	0.42%	0.031%
74	21.123	1577	1581	1589	rBV	640550	1542457	39.69%	2.895%
75	21.313	1593	1597	1601	rVV	875909	1735343	44.65%	3.258%
76	21.420	1604	1606	1608	rVB2	12789	19639	0.51%	0.037%
77	21.621	1621	1623	1627	rBV3	8666	18020	0.46%	0.034%
78	21.857	1641	1643	1646	rBV3	12012	24580	0.63%	0.046%
79	22.258	1674	1677	1679	rBV2	7015	17653	0.45%	0.033%
80	22.660	1706	1711	1719	rBV8	26039	124966	3.22%	0.235%
81	23.958	1817	1821	1823	rBV4	14803	42087	1.08%	0.079%
82	24.029	1823	1827	1830	rVB5	13555	36605	0.94%	0.069%
83	24.371	1855	1856	1860	rVB3	6157	12446	0.32%	0.023%
84	24.560	1867	1872	1878	rBV7	20809	95278	2.45%	0.179%
85	24.773	1888	1890	1891	rBV	8067	14779	0.38%	0.028%
86	24.904	1893	1901	1914	rVB2	735530	2755835	70.90%	5.173%
87	25.164	1916	1923	1932	rVB	445845	1491757	38.38%	2.800%
88	26.203	2009	2011	2013	rBV3	5579	12506	0.32%	0.023%
89	26.746	2054	2057	2059	rBV4	6386	14782	0.38%	0.028%
90	26.995	2074	2078	2080	rBV4	5542	17481	0.45%	0.033%
91	27.196	2089	2095	2096	rVV4	18102	49247	1.27%	0.092%
92	27.314	2099	2105	2120	rVB5	69795	430733	11.08%	0.809%
93	29.377	2277	2280	2283	rVV3	6611	15325	0.39%	0.029%
94	29.518	2287	2292	2293	rBV4	5106	15898	0.41%	0.030%
95	30.661	2383	2389	2390	rVV4	5992	18024	0.46%	0.034%
96	30.957	2410	2414	2415	rBV2	6085	15465	0.40%	0.029%
97	31.050	2419	2422	2425	rBV4	5207	14204	0.37%	0.027%
98	31.239	2429	2438	2439	rBV5	16088	63303	1.63%	0.119%
99	31.993	2501	2502	2507	rBV3	5120	12562	0.32%	0.024%
100	32.996	2586	2587	2591	rVB	6574	15028	0.39%	0.028%

Sum of corrected areas: 53271593

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On : 20 Oct 2008 2:55
Operator : QM
Sample : Z4920-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On : 20 Oct 2008 2:55
Operator : QM
Sample : Z4920-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

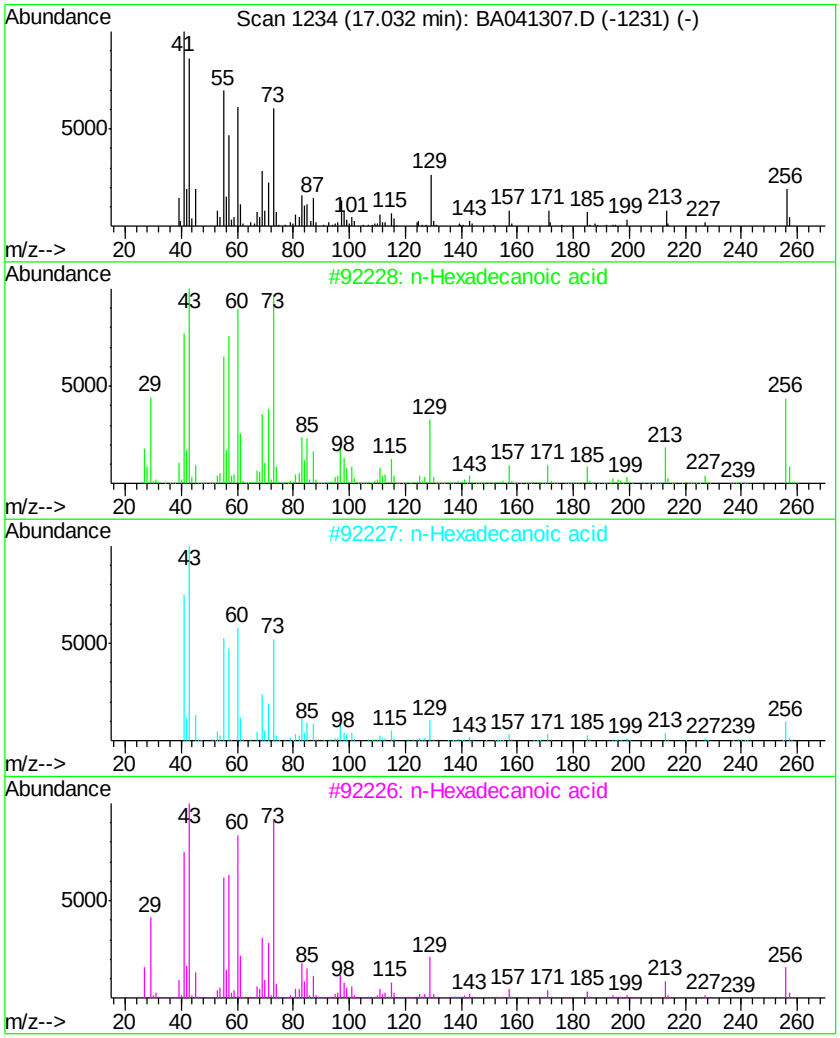
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

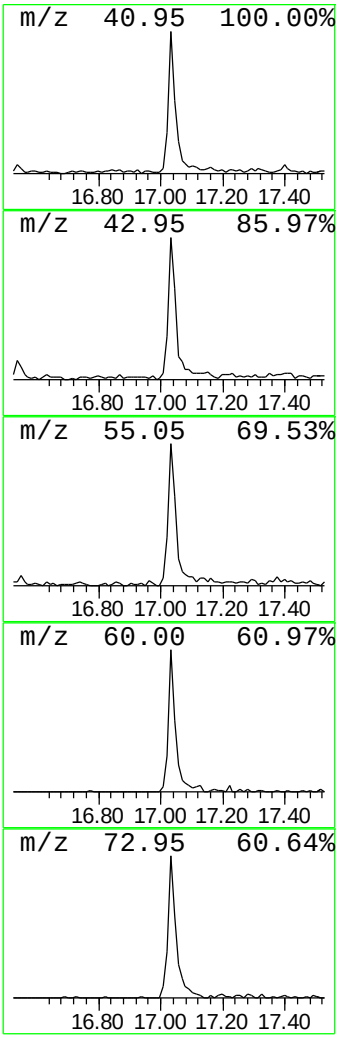
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.03	5.91 ng/ul	679800	Phenanthrene-d10	15.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	72
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	64
5	n-Decanoic acid	172	C10H20O2	000334-48-5	62





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On : 20 Oct 2008 2:55
Operator : QM
Sample : Z4920-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

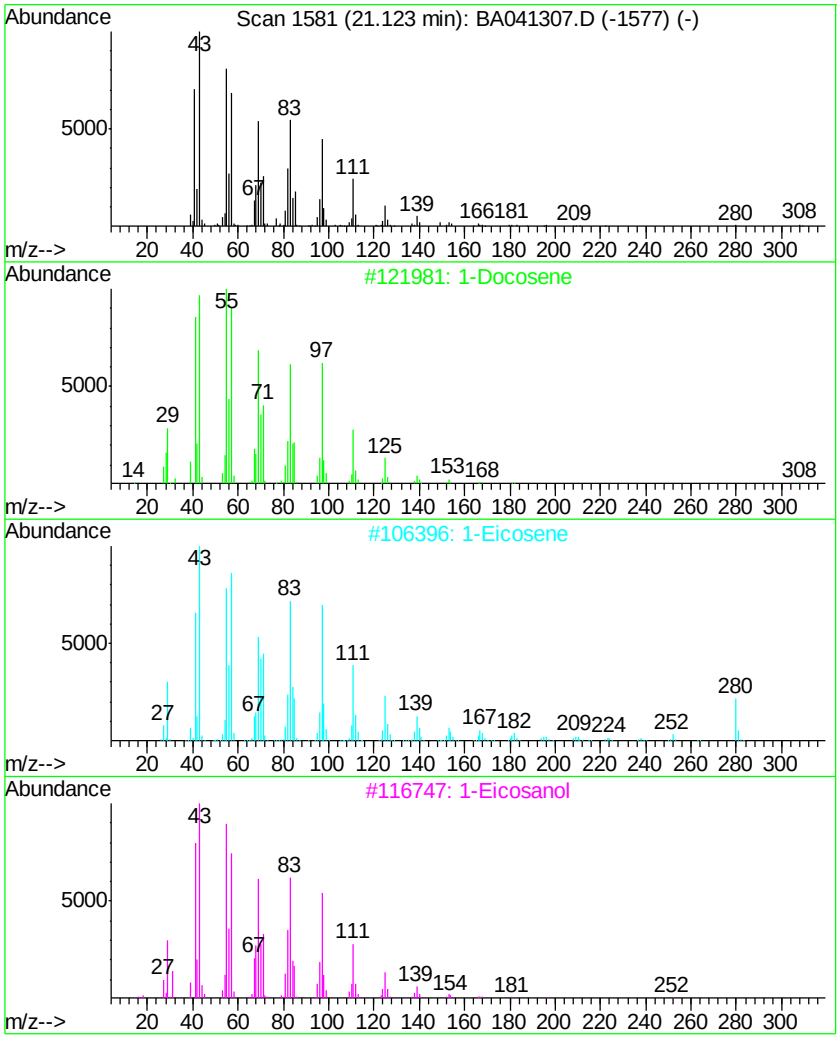
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

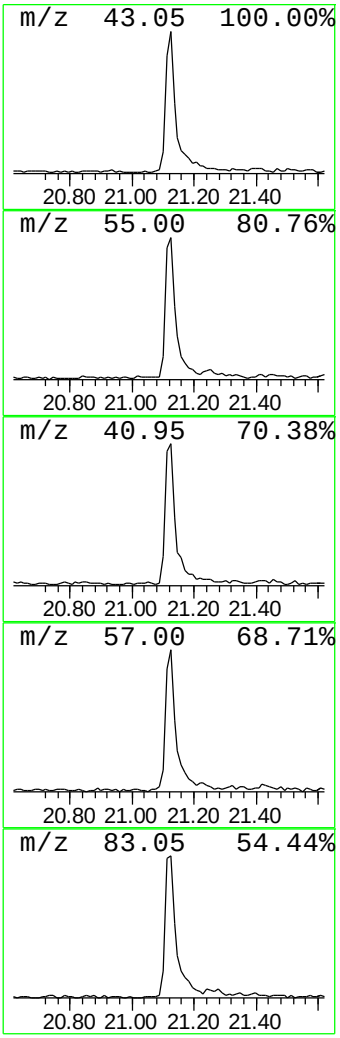
****

Peak Number 2 1-Docosene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.12	17.78 ng/ul	1542460	Chrysene-d12	21.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	99
2	1-Eicosene	280	C20H40	003452-07-1	97
3	1-Eicosanol	298	C20H42O	000629-96-9	94
4	1-Docosene	308	C22H44	001599-67-3	94
5	Cyclohexadecane, 1,2-diethyl-	280	C20H40	1000155-85-3	93





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On    : 20 Oct 2008   2:55
Operator  : QM
Sample    : Z4920-13
Misc      :
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

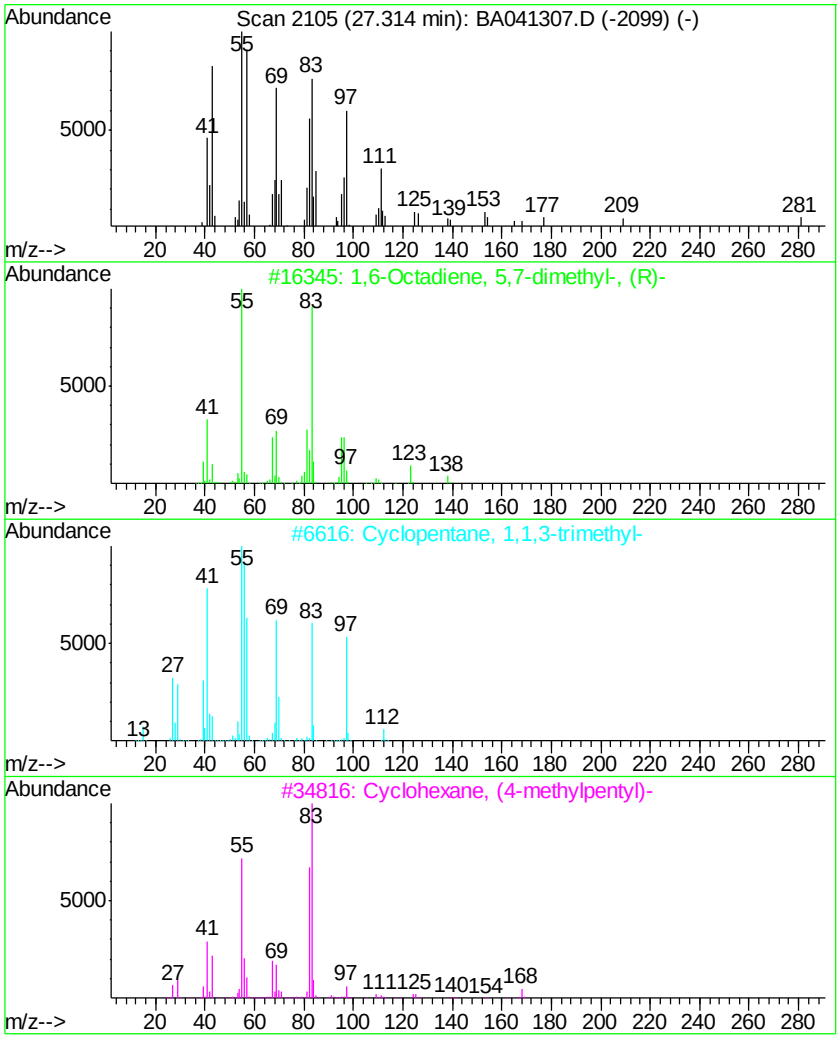
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

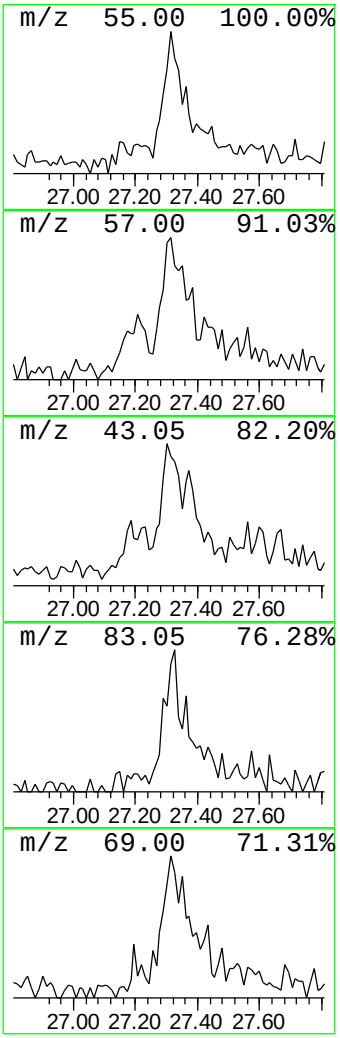
****

Peak Number 3 1,6-Octadiene, 5,7-dimethyl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.31	5.77 ng/ul	430733	Perylene-d12	25.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,6-Octadiene, 5,7-dimethyl-, (R)-	138	C10H18	085006-04-8	50
2	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	43
3	Cyclohexane, (4-methylpentyl)-	168	C12H24	061142-20-9	38
4	n-Amylcyclohexane	154	C11H22	029949-27-7	38
5	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	38





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041307.D
Acq On : 20 Oct 2008 2:55
Operator : QM
Sample : Z4920-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic acid	17.03	5.9	ng/ul	679800	4	15.76	2300270	20.0
1-Docosene	21.12	17.8	ng/ul	1542460	5	21.31	1735340	20.0
1,6-Octadiene, 5,...	27.31	5.8	ng/ul	430733	6	25.16	1491760	20.0

CHEMTECH

SEMI-VOLATILE CALIBRATION DATA

6E - FORM VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date(s): 10/19/2008 10/19/2008

Calibration Time(s): 14:01 17:16

LAB FILE ID: RRF5.0 = BA041290.D RRF10 = BA041291.D
RRF20 = BA041289.D RRF40 = BA041292.D RRF80 = BA041293.D

COMPOUND	RRF5.0	RRF10	RRF20	RRF40	RRF80	$\overline{RRF}$	% RSD
Benzaldehyde	0.630	0.766	0.625	0.461	0.221	0.540	38.7
Phenol	1.151	1.307	1.304	1.395	1.411	1.314	7.9
Bis(2-chloroethyl)ether	0.988	1.052	1.014	1.054	1.152	1.052	5.9
2-Chlorophenol	1.082	1.158	1.162	1.199	1.219	1.164	4.5
2-Methylphenol	0.836	0.894	0.882	0.954	0.990	0.911	6.7
2,2'-Oxybis(1-chloropropane)	1.386	1.572	1.561	1.659	1.618	1.559	6.7
Acetophenone	1.526	1.583	1.660	1.616	1.650	1.607	3.4
4-Methylphenol	0.890	0.950	0.867	1.013	1.052	0.954	8.3
N-Nitroso-di-n-propylamine	0.692	0.919	0.801	0.878	0.807	0.819	10.6
Hexachloroethane	0.557	0.680	0.641	0.699	0.631	0.642	8.6
Nitrobenzene	0.383	0.440	0.406	0.433	0.418	0.416	5.5
Isophorone	0.730	0.790	0.832	0.830	0.829	0.802	5.5
2-Nitrophenol	0.220	0.229	0.226	0.245	0.250	0.234	5.5
2,4-Dimethylphenol	0.355	0.393	0.380	0.388	0.414	0.386	5.6
Bis(2-chloroethoxy)methane	0.347	0.368	0.384	0.417	0.458	0.395	11.0
2,4-Dichlorophenol	0.377	0.410	0.401	0.428	0.427	0.409	5.1
Naphthalene	0.833	0.882	0.874	0.922	1.015	0.905	7.6
4-Chloroaniline	0.249	0.254	0.269	0.266	0.280	0.264	4.7
Hexachlorobutadiene	0.288	0.332	0.310	0.313	0.305	0.309	5.1
Caprolactam	0.085	0.109	0.107	0.102	0.092	0.099	10.5
4-Chloro-3-methylphenol	0.340	0.359	0.331	0.343	0.391	0.353	6.7
2-Methylnaphthalene	0.667	0.704	0.679	0.709	0.784	0.709	6.4
Hexachlorocyclopentadiene	0.456	0.489	0.522	0.566	0.563	0.519	9.2
2,4,6-Trichlorophenol	0.434	0.416	0.420	0.504	0.482	0.451	8.8
2,4,5-Trichlorophenol	0.458	0.419	0.443	0.511	0.497	0.466	8.1
1,1'-Biphenyl	1.380	1.330	1.310	1.490	1.525	1.407	6.8
2-Chloronaphthalene	1.188	1.148	1.146	1.316	1.260	1.211	6.1
2-Nitroaniline		0.353	0.357	0.410	0.382	0.376	6.9
Dimethylphthalate	1.401	1.502	1.429	1.507	1.421	1.452	3.4
2,6-Dinitrotoluene	0.359	0.340	0.359	0.393	0.384	0.367	5.8
Acenaphthylene	1.488	1.575	1.512	1.703	1.678	1.591	6.1
3-Nitroaniline		0.272	0.275	0.307	0.301	0.289	6.2
Acenaphthene	1.028	1.046	1.020	1.086	1.062	1.048	2.6
2,4-Dinitrophenol		0.274	0.279	0.324	0.328	0.301	9.5
4-Nitrophenol		0.316	0.302	0.354	0.330	0.326	6.8
Dibenzofuran	1.461	1.489	1.491	1.725	1.644	1.562	7.4
2,4-Dinitrotoluene	0.491	0.455	0.448	0.523	0.483	0.480	6.3
Diethylphthalate	1.355	1.428	1.385	1.495	1.391	1.411	3.8
Fluorene	1.244	1.223	1.214	1.334	1.433	1.290	7.2

6F - FORM VI SV-2

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date(s): 10/19/2008 10/19/2008

Calibration Time(s): 14:01 17:16

LAB FILE ID: RRF5.0 = BA041290.D RRF10 = BA041291.D
RRF20 = BA041289.D RRF40 = BA041292.D RRF80 = BA041293.D

COMPOUND	RRF5.0	RRF10	RRF20	RRF40	RRF80	$\overline{RRF}$	% RSD
4-Chlorophenyl-phenylether	0.683	0.659	0.669	0.715	0.707	0.686	3.5
4-Nitroaniline		0.288	0.245	0.208	0.159	0.225	24.2
4,6-Dinitro-2-methylphenol		0.208	0.203	0.221	0.220	0.213	4.2
N-Nitrosodiphenylamine [1]	0.542	0.542	0.572	0.589	0.607	0.571	5.0
1,2,4,5-Tetrachlorobenzene	0.683	0.702	0.761	0.822	0.771	0.748	7.5
4-Bromophenyl-phenylether	0.234	0.244	0.241	0.252	0.258	0.246	3.8
Hexachlorobenzene	0.267	0.298	0.280	0.290	0.298	0.287	4.7
Atrazine	0.092	0.097	0.098	0.108	0.109	0.101	7.2
Pentachlorophenol		0.201	0.213	0.229	0.233	0.219	6.8
Phenanthrene	1.006	0.972	1.002	1.048	1.076	1.020	4.0
Anthracene	1.040	1.034	0.987	1.030	1.044	1.027	2.3
Carbazole	0.884	0.901	0.889	0.962	1.006	0.929	5.8
Di-n-butylphthalate	1.287	1.350	1.281	1.352	1.379	1.330	3.3
Fluoranthene	1.156	1.216	1.180	1.213	1.288	1.211	4.1
Pyrene	1.013	1.126	1.038	1.168	1.204	1.110	7.4
Butylbenzylphthalate	0.467	0.512	0.537	0.571	0.602	0.538	9.7
3,3'-Dichlorobenzidine	0.211	0.301	0.346	0.383	0.376	0.323	21.9
Benzo(a)anthracene	0.945	1.038	0.993	1.130	1.197	1.061	9.7
Chrysene	0.874	0.959	0.880	0.910	0.881	0.901	3.9
Bis(2-ethylhexyl)phthalate	0.533	0.566	0.506	0.558	0.650	0.563	9.7
Di-n-octylphthalate	0.855	1.039	1.263	1.394	1.812	1.273	28.7
Benzo(b)fluoranthene	0.965	1.096	1.255	1.492	1.724	1.306	23.4
Benzo(k)fluoranthene	1.065	1.083	1.084	1.172	1.153	1.111	4.3
Benzo(a)pyrene	0.918	1.053	1.134	1.239	1.287	1.126	13.1
Indeno(1,2,3-cd)pyrene	0.740	0.867	1.033	1.231	1.406	1.055	25.5
Dibenzo(a,h)anthracene	0.675	0.764	0.835	0.847	0.930	0.810	11.8
Benzo(g,h,i)perylene	0.840	0.911	1.062	1.227	1.299	1.068	18.5
2,3,4,6-Tetrachlorophenol	0.387	0.426	0.435	0.485	0.474	0.441	8.9

[1]Cannot be separated from Diphenylamine

6G - FORM VI SV-3

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date(s): 10/19/2008 10/19/2008

Calibration Time(s): 14:01 17:16

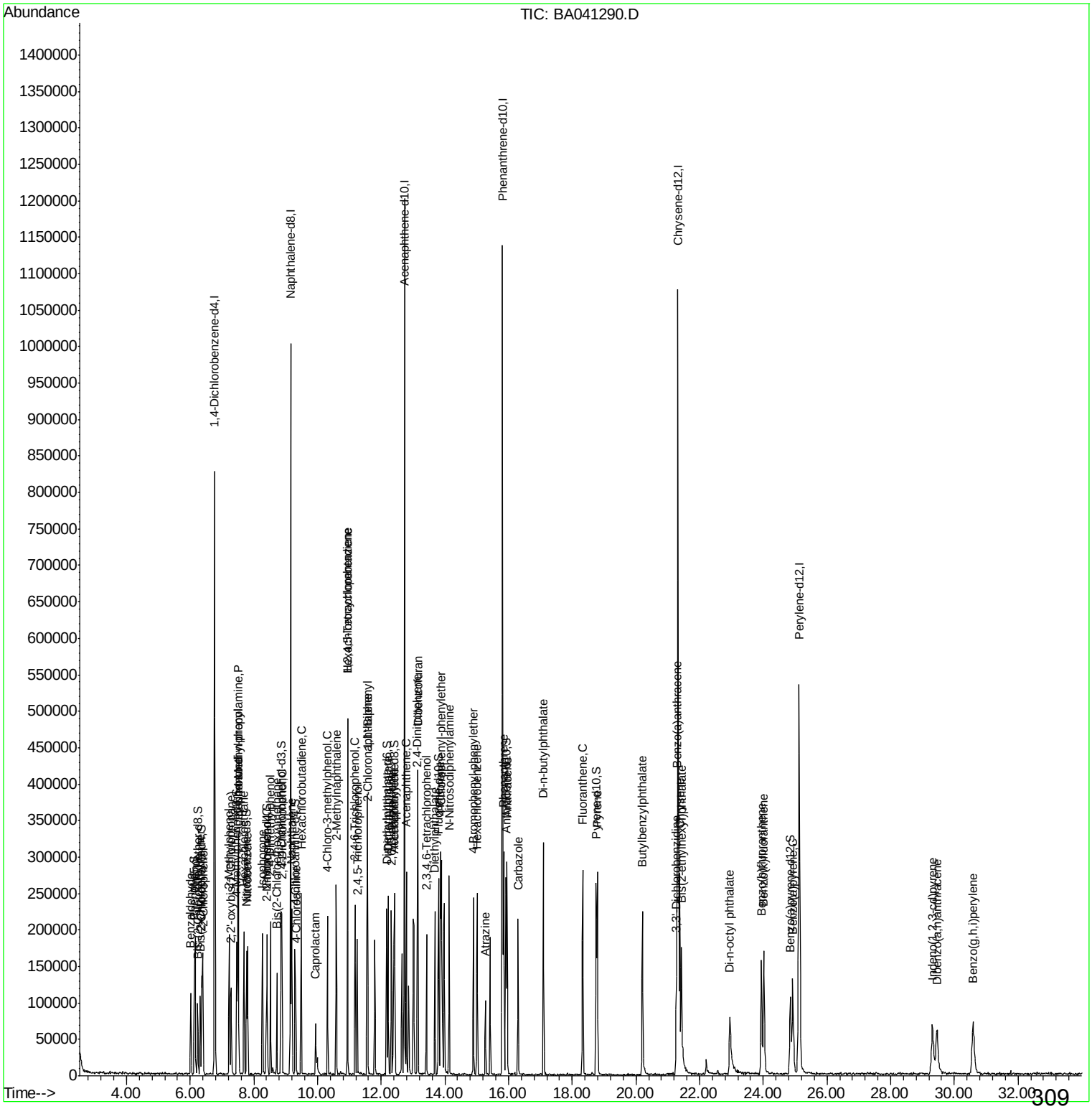
LAB FILE ID: RRF5.0 = BA041290.D RRF10 = BA041291.D
RRF20 = BA041289.D RRF40 = BA041292.D RRF80 = BA041293.D

COMPOUND	RRF5.0	RRF10	RRF20	RRF40	RRF80	$\overline{RRF}$	% RSD
Phenol-d5	1.120	1.233	1.125	1.262	1.315	1.211	7.1
Bis(2-Chloroethyl)ether-d8	0.749	0.826	0.801	0.864	0.864	0.821	5.9
2-Chlorophenol-d4	0.909	1.037	1.052	1.081	1.067	1.029	6.7
4-Methylphenol-d8	0.747	0.804	0.820	0.856	0.881	0.822	6.3
Nitrobenzene-d5	0.167	0.171	0.175	0.185	0.188	0.177	5.2
2-Nitrophenol-d4	0.212	0.223	0.208	0.227	0.219	0.218	3.5
2,4-Dichlorophenol-d3	0.367	0.398	0.392	0.432	0.429	0.403	6.8
4-Chloroaniline-d4	0.356	0.400	0.383	0.410	0.445	0.399	8.3
Dimethylphthalate-d6	1.276	1.301	1.313	1.410	1.359	1.332	4.0
Acenaphthylene-d8	1.527	1.572	1.592	1.701	1.705	1.619	4.9
4-Nitrophenol-d4		0.257	0.266	0.278	0.285	0.271	4.6
Fluorene-d10	1.001	1.091	1.028	1.113	1.123	1.071	5.0
4,6-Dinitro-2-methylphenol-d2		0.200	0.196	0.219	0.213	0.207	5.2
Anthracene-d10	1.011	0.951	0.948	0.956	0.921	0.957	3.5
Pyrene-d10	0.820	0.873	0.844	0.889	0.944	0.874	5.4
Benzo(a)pyrene-d12	0.856	0.919	1.016	1.232	1.423	1.089	21.6

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:08:02 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration



Quantitation Report (Qedit)

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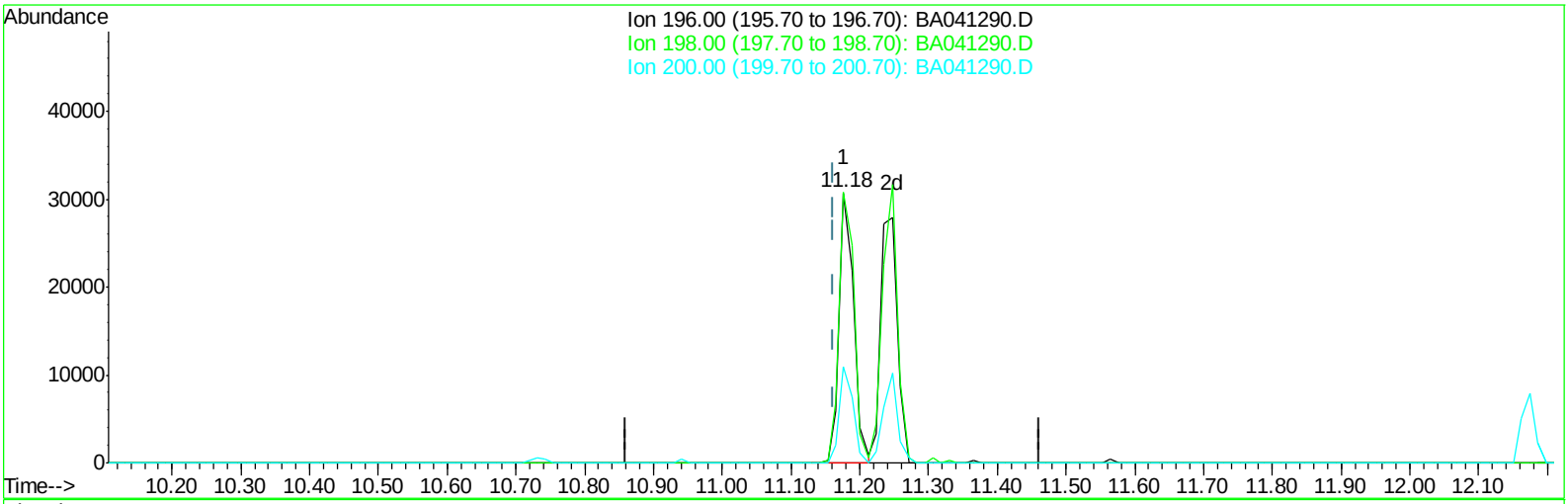
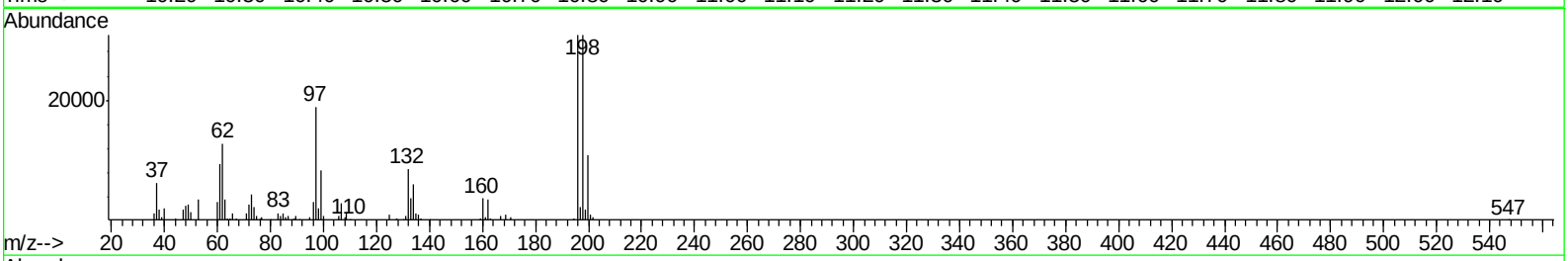
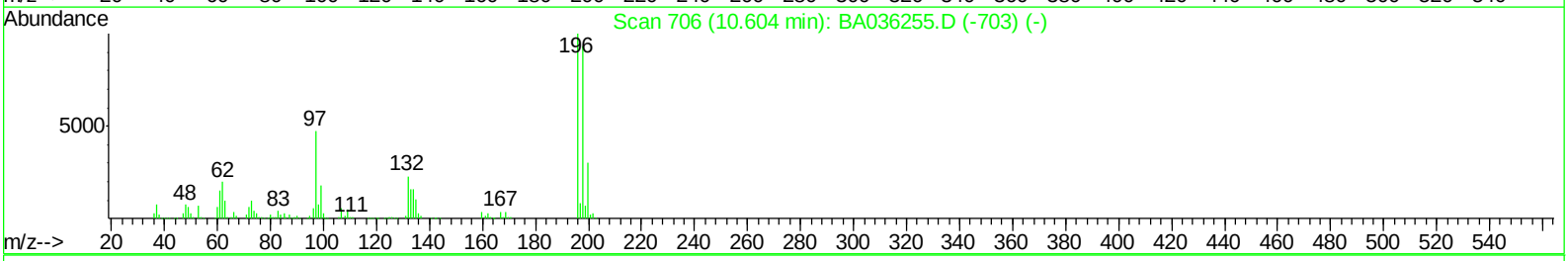
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(37) 2,4,5-Trichlorophenol

11.177min (+0.015) 4.93ng/ul

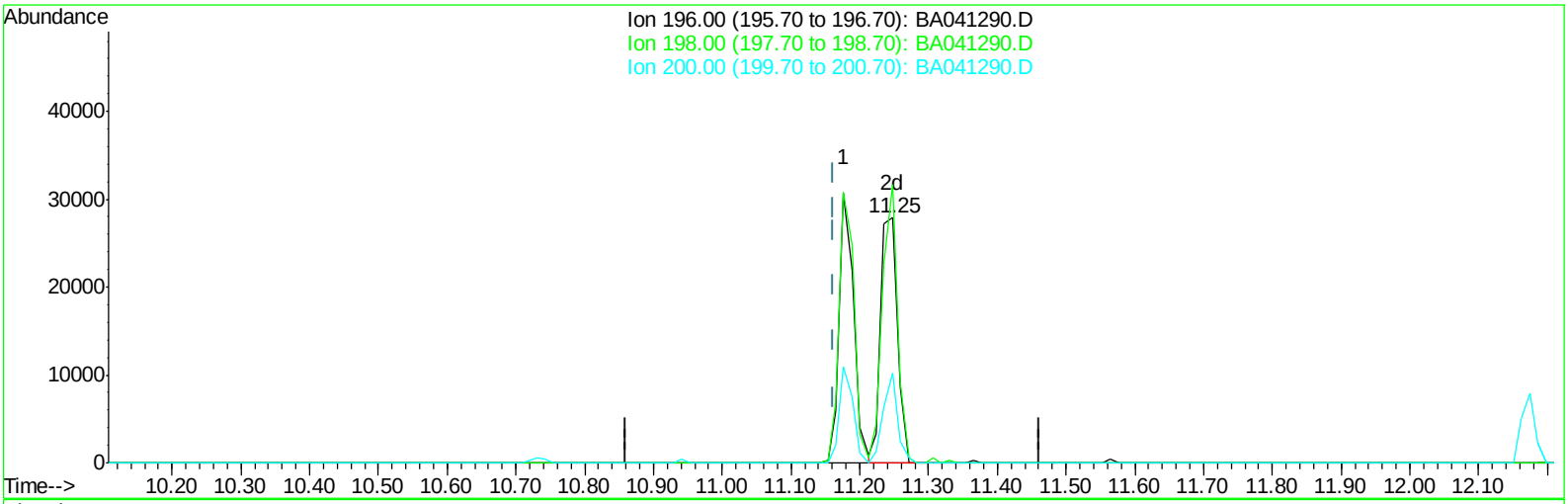
response 45104

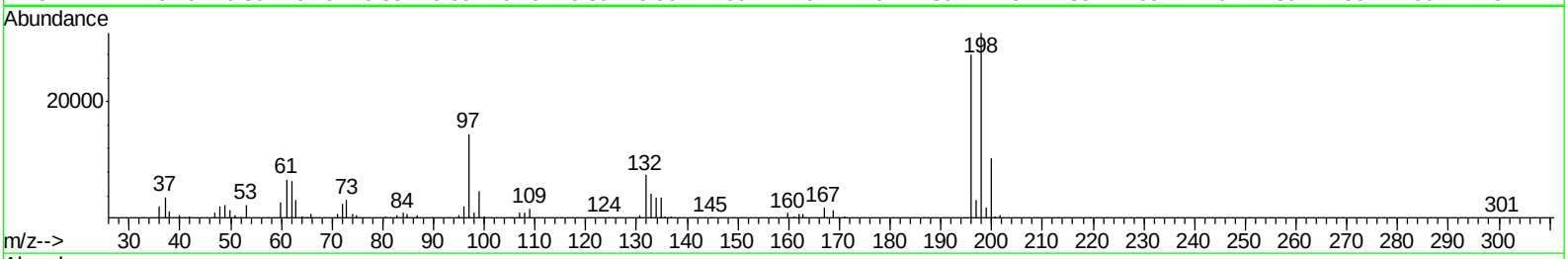
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	100.29
200.00	29.80	35.72
0.00	0.00	0.00

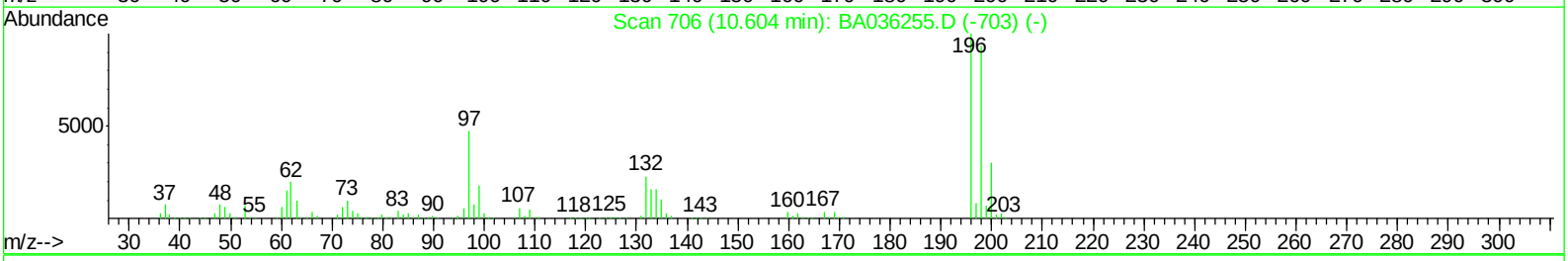
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(37) 2,4,5-Trichlorophenol

11.248min (+0.086) 5.21ng/ul m

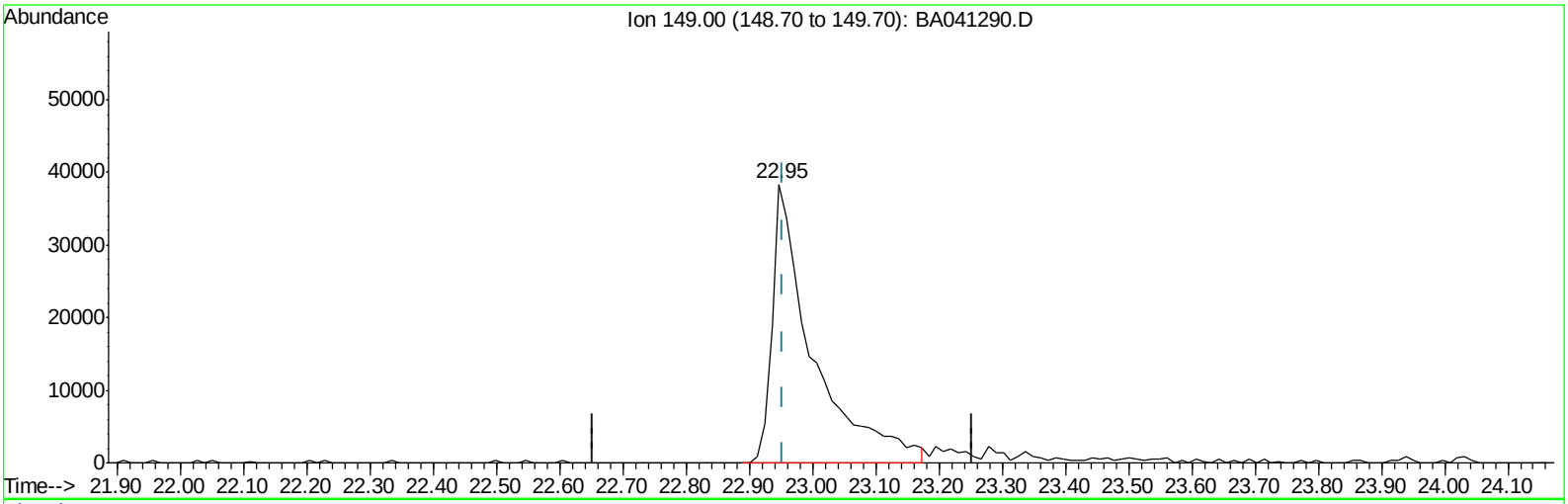
response 47602

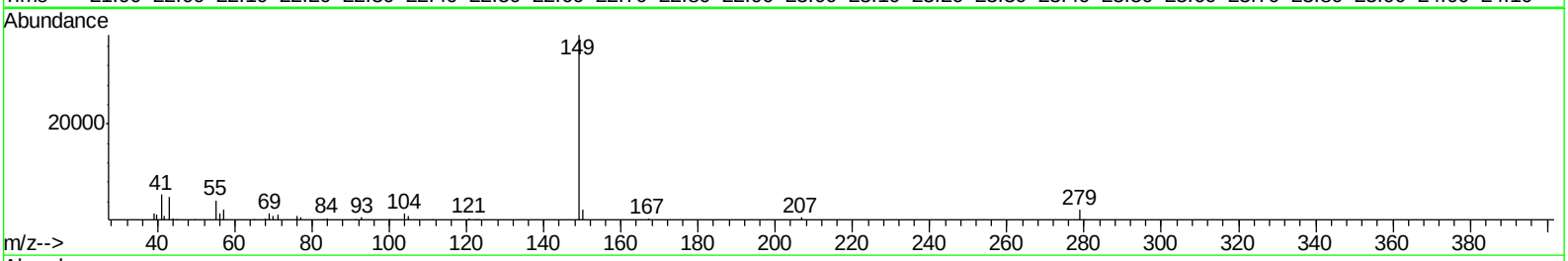
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	113.41#
200.00	29.80	36.77#
0.00	0.00	0.00

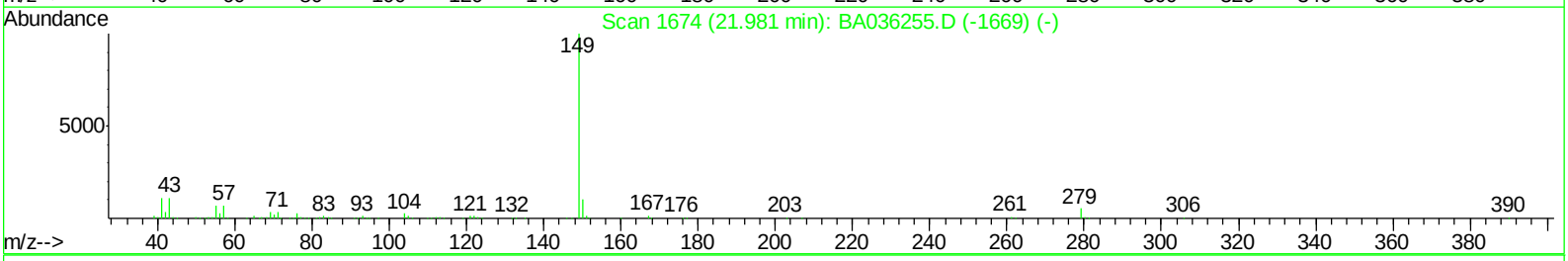
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(82) Di-n-octyl phthalate

22.948min (-0.006) 2.62ng/ul

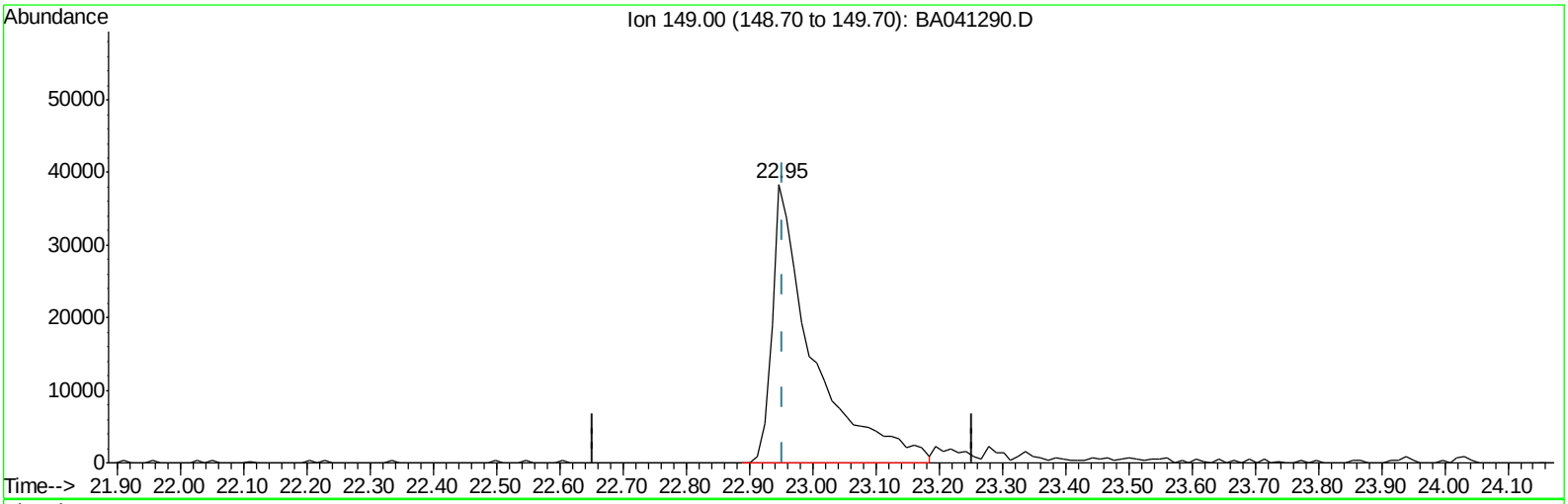
response 172018

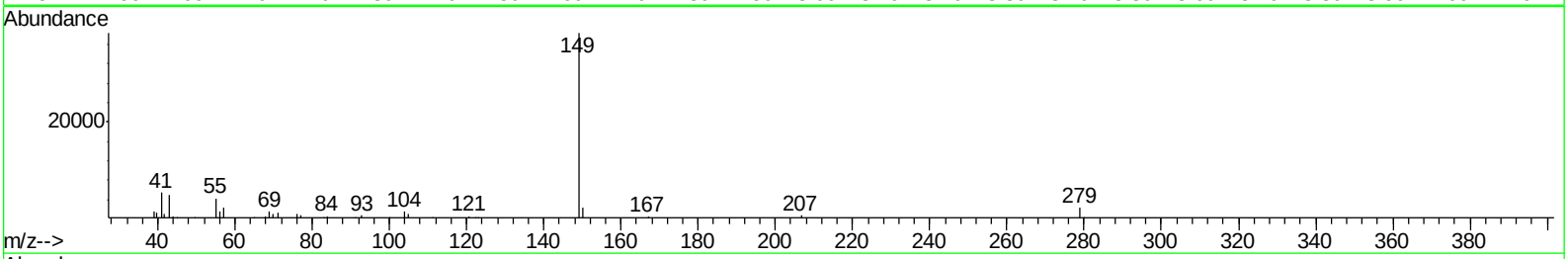
Ion	Exp%	Act%
149.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

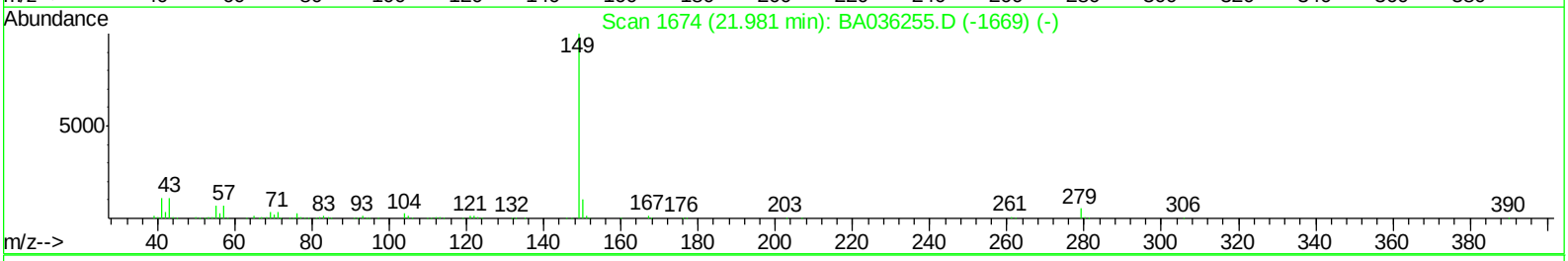
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(82) Di-n-octyl phthalate

22.948min (-0.006) 2.63ng/ul m

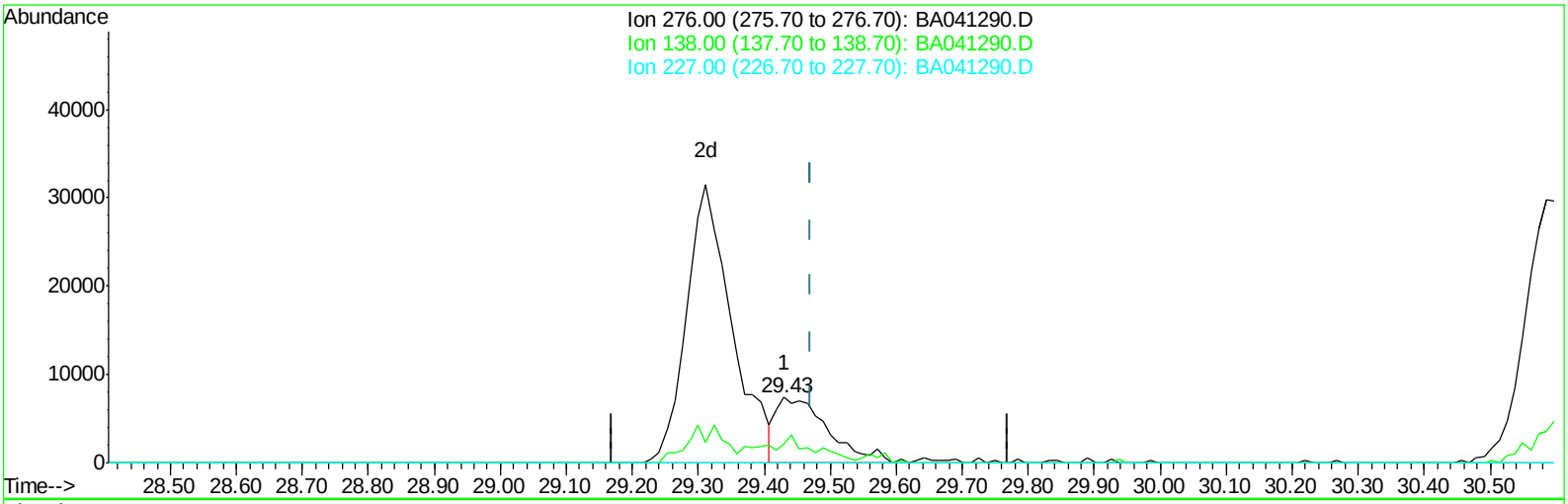
response 172634

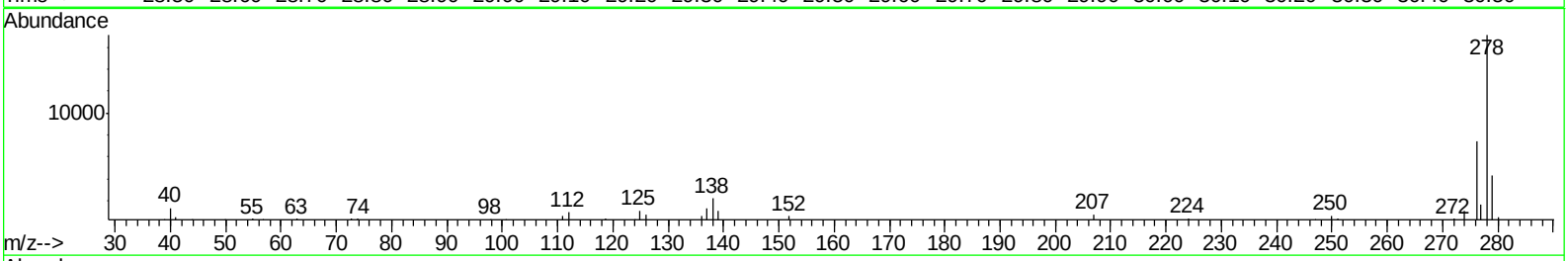
Ion	Exp%	Act%
149.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

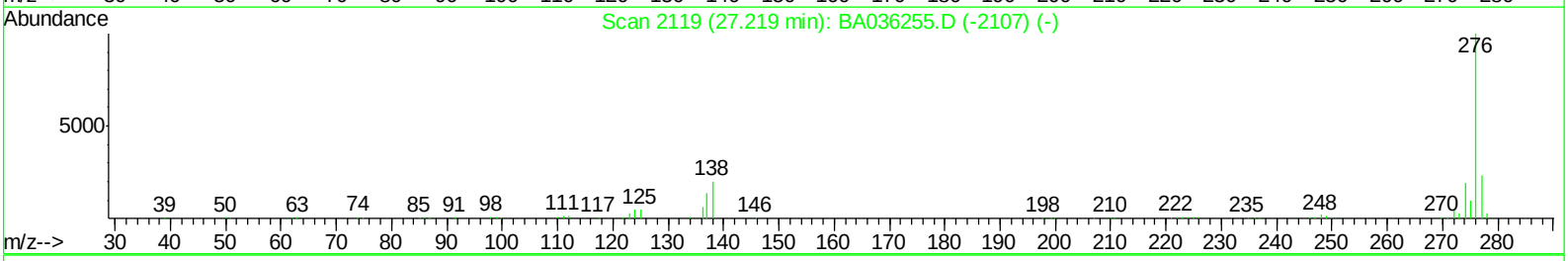
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(87) Indeno(1,2,3-cd)pyrene

29.430min (-0.040) 0.94ng/ul

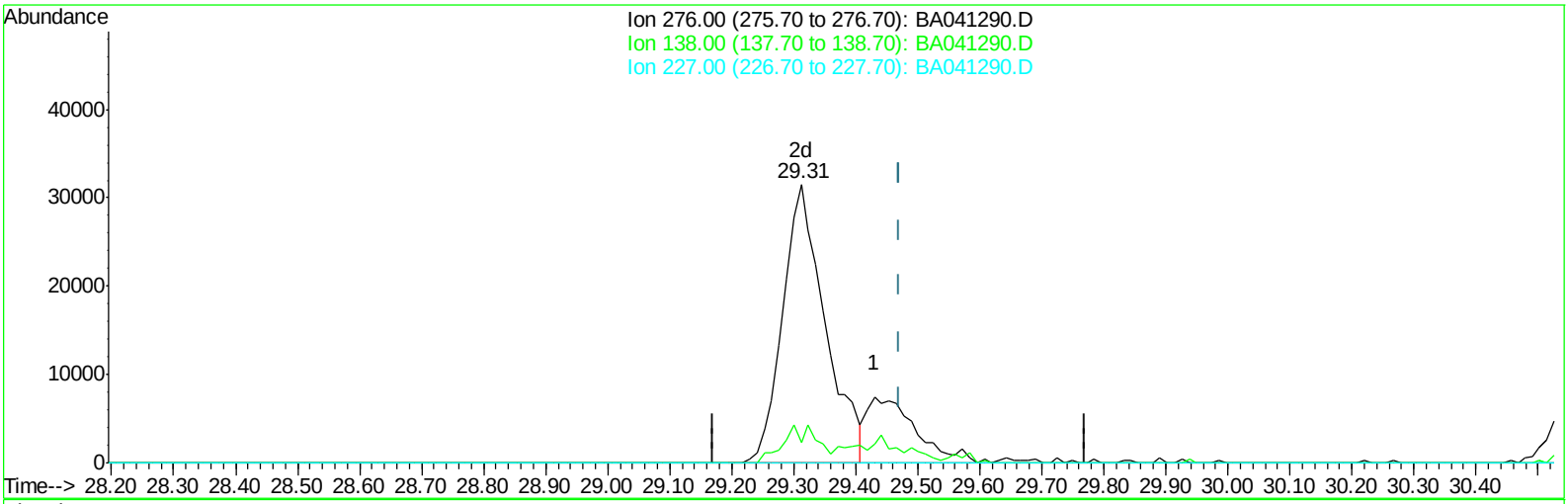
response 40357

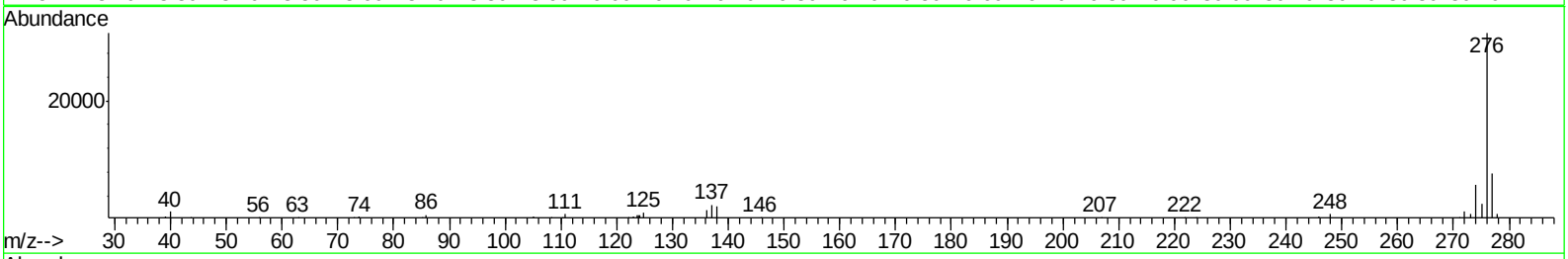
Ion	Exp%	Act%
276.00	100	100
138.00	19.90	29.83#
227.00	23.00	0.00#
0.00	0.00	0.00

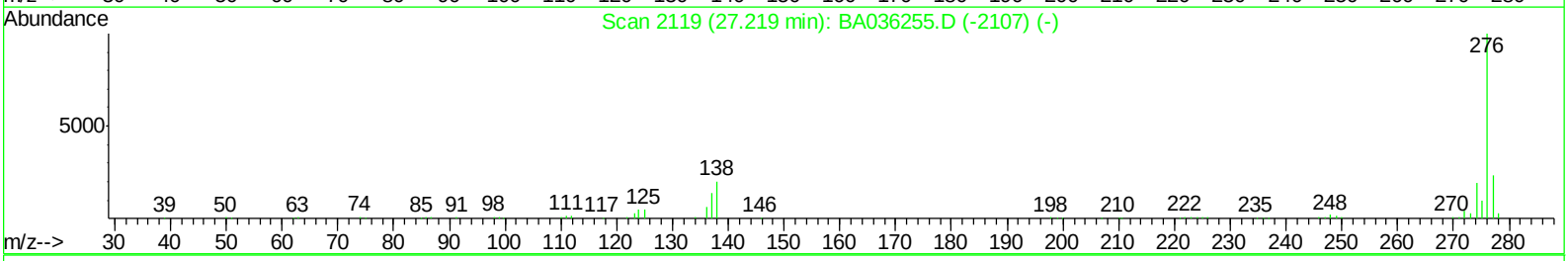
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:05:42 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041290.D

(87) Indeno(1,2,3-cd)pyrene

29.312min (-0.159) 3.49ng/ul m

response 149540

Ion	Exp%	Act%
276.00	100	100
138.00	19.90	7.25#
227.00	23.00	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:08:02 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	183766	20.00	ng/ul	0.09
16) Naphthalene-d8	9.15	136	604017	20.00	ng/ul	0.09
33) Acenaphthene-d10	12.73	164	415692	20.00	ng/ul	0.08
59) Phenanthrene-d10	15.80	188	748573	20.00	ng/ul	0.06
73) Chrysene-d12	21.32	240	920298	20.00	ng/ul	0.00
81) Perylene-d12	25.13	264	808050	20.00	ng/ul	-0.04
System Monitoring Compounds						
3) Phenol-d5	6.13	99	51446	3.66	ng/ul	0.09
5) Bis-(2-Chloroethyl)ether-d	6.24	67	34405	4.42	ng/ul	0.09
7) 2-Chlorophenol-d4	6.37	132	41754	3.59	ng/ul	0.08
11) 4-Methylphenol-d8	7.46	113	34332	3.60	ng/ul	0.08
17) Nitrobenzene-d5	7.77	128	25151	4.18	ng/ul	0.09
20) 2-Nitrophenol-d4	8.39	143	32047	4.65	ng/ul	0.09
24) 2,4-Dichlorophenol-d3	8.86	165	55395	5.55	ng/ul	0.08
27) 4-Chloroaniline-d4	9.30	131	53792	4.20	ng/ul	0.08
41) Dimethylphthalate-d6	12.17	166	132644	4.90	ng/ul	0.08
44) Acenaphthylene-d8	12.40	160	158694	4.33	ng/ul	0.08
49) 4-Nitrophenol-d4	0.00	143	0d	0.00	ng/ul	
55) Fluorene-d10	13.80	176	104064	4.66	ng/ul	0.07
60) 4,6-Dinitro-2-methylphenol	0.00	200	0d	0.00	ng/ul	
68) Anthracene-d10	15.92	188	189238	5.06	ng/ul	0.07
74) Pyrene-d10	18.75	212	188647	3.88	ng/ul	0.03
85) Benzo(a)pyrene-d12	24.84	264	172937	3.84	ng/ul	-0.05

Target Compounds						Qvalue
2) Benzaldehyde	6.01	77	28927	3.75	ng/ul	89
4) Phenol	6.15	94	52882	3.61	ng/ul#	38
6) Bis(2-Chloroethyl)ether	6.32	93	45394	4.07	ng/ul	93
8) 2-Chlorophenol	6.40	128	49692	4.20	ng/ul#	83
9) 2-Methylphenol	7.22	108	38386	3.93	ng/ul	85
10) 2,2'-oxybis(1-Chloropropan	7.28	45	63693	4.09	ng/ul	98
12) Acetophenone	7.50	105	70105	4.98	ng/ul#	68
13) N-Nitroso-di-n-propylamine	7.52	70	31778	4.43	ng/ul#	65
14) 4-Methylphenol	7.51	108	40871	4.04	ng/ul	95
15) Hexachloroethane	7.68	117	25588	4.26	ng/ul#	77
18) Nitrobenzene	7.80	77	57872	5.18	ng/ul#	87
19) Isophorone	8.26	82	110305	5.84	ng/ul#	95
21) 2-Nitrophenol	8.41	139	33162	4.67	ng/ul#	61
22) 2,4-Dimethylphenol	8.53	107	53594	5.29	ng/ul#	76
23) Bis(2-Chloroethoxy)methane	8.72	93	52436	4.09	ng/ul#	95
25) 2,4-Dichlorophenol	8.88	162	56988	5.65	ng/ul	90
26) Naphthalene	9.19	128	125811	4.25	ng/ul#	96
28) 4-Chloroaniline	9.32	127	37572	3.16	ng/ul	99
29) Hexachlorobutadiene	9.48	225	43443	7.34	ng/ul	95
30) Caprolactam	9.94	113	12860	4.49	ng/ul#	43
31) 4-Chloro-3-methylphenol	10.32	107	51317	5.99	ng/ul	89
32) 2-Methylnaphthalene	10.59	142	100756	5.24	ng/ul	98
34) 1,2,4,5-Tetrachlorobenzene	10.94	216	71025	5.51	ng/ul	93
35) Hexachlorocyclopentadiene	10.94	237	47401	6.64	ng/ul	97

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041290.D
Acq On : 19 Oct 2008 15:12
Operator : QM
Sample : ICC0005BA0049
Misc : SSTD00549
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 11:08:02 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

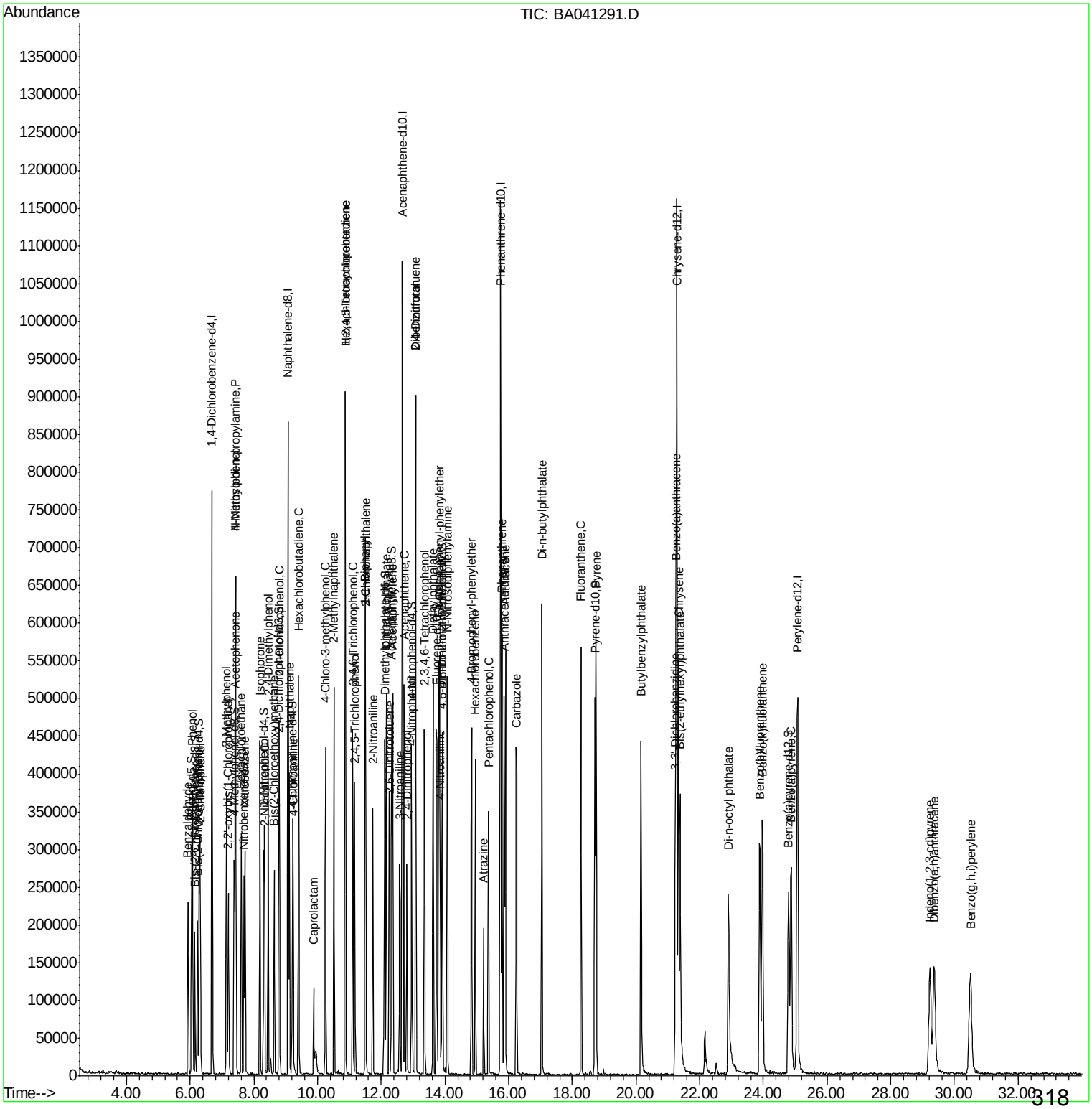
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.18	196	45104	5.30 ng/ul	93
37) 2,4,5-Trichlorophenol	11.25	196	47602m	5.21 ng/ul	
38) 1,1'-Biphenyl	11.56	154	143405	4.96 ng/ul#	90
39) 2-Chloronaphthalene	11.58	162	123508	5.05 ng/ul	96
42) Dimethylphthalate	12.22	163	145576	5.17 ng/ul	97
43) 2,6-Dinitrotoluene	12.32	165	37298	5.04 ng/ul#	86
45) Acenaphthylene	12.42	152	154648	4.27 ng/ul#	90
47) Acenaphthene	12.79	153	106847	4.89 ng/ul	86
51) Dibenzofuran	13.15	168	151848	4.72 ng/ul#	85
52) 2,4-Dinitrotoluene	13.14	165	51004	5.50 ng/ul#	35
53) 2,3,4,6-Tetrachlorophenol	13.42	232	40176	5.51 ng/ul#	98
54) Diethylphthalate	13.69	149	140786	5.01 ng/ul	99
56) Fluorene	13.86	166	129252	4.93 ng/ul	94
57) 4-Chlorophenyl-phenylether	13.89	204	70955	5.55 ng/ul	99
62) N-Nitrosodiphenylamine	14.13	169	101442	4.04 ng/ul	91
63) 4-Bromophenyl-phenylether	14.89	248	43860	4.82 ng/ul	86
64) Hexachlorobenzene	15.01	284	49876	4.69 ng/ul#	89
65) Atrazine	15.27	200	17206	2.20 ng/ul#	91
67) Phenanthrene	15.85	178	188178	4.14 ng/ul	99
69) Anthracene	15.95	178	194716	4.40 ng/ul	99
70) Carbazole	16.31	167	165485	4.22 ng/ul	96
71) Di-n-butylphthalate	17.09	149	240932	4.08 ng/ul#	93
72) Fluoranthene	18.33	202	216342	4.58 ng/ul#	88
75) Pyrene	18.79	202	232998	3.78 ng/ul#	88
76) Butylbenzylphthalate	20.20	149	107387	3.33 ng/ul	88
77) 3,3'-Dichlorobenzidine	21.27	252	48462	2.71 ng/ul	95
78) Benzo(a)anthracene	21.30	228	217485	3.64 ng/ul	96
79) Bis(2-ethylhexyl)phthalate	21.43	149	122625	3.36 ng/ul#	98
80) Chrysene	21.38	228	201063	3.82 ng/ul	96
82) Di-n-octyl phthalate	22.95	149	172634m	2.63 ng/ul	
83) Benzo(b)fluoranthene	23.94	252	194851	3.61 ng/ul#	92
84) Benzo(k)fluoranthene	24.02	252	215120	4.06 ng/ul#	92
86) Benzo(a)pyrene	24.93	252	185428	3.73 ng/ul#	96
87) Indeno(1,2,3-cd)pyrene	29.31	276	149540m	3.49 ng/ul	
88) Dibenzo(a,h)anthracene	29.47	278	136351	3.32 ng/ul#	90
89) Benzo(g,h,i)perylene	30.59	276	169618	3.67 ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

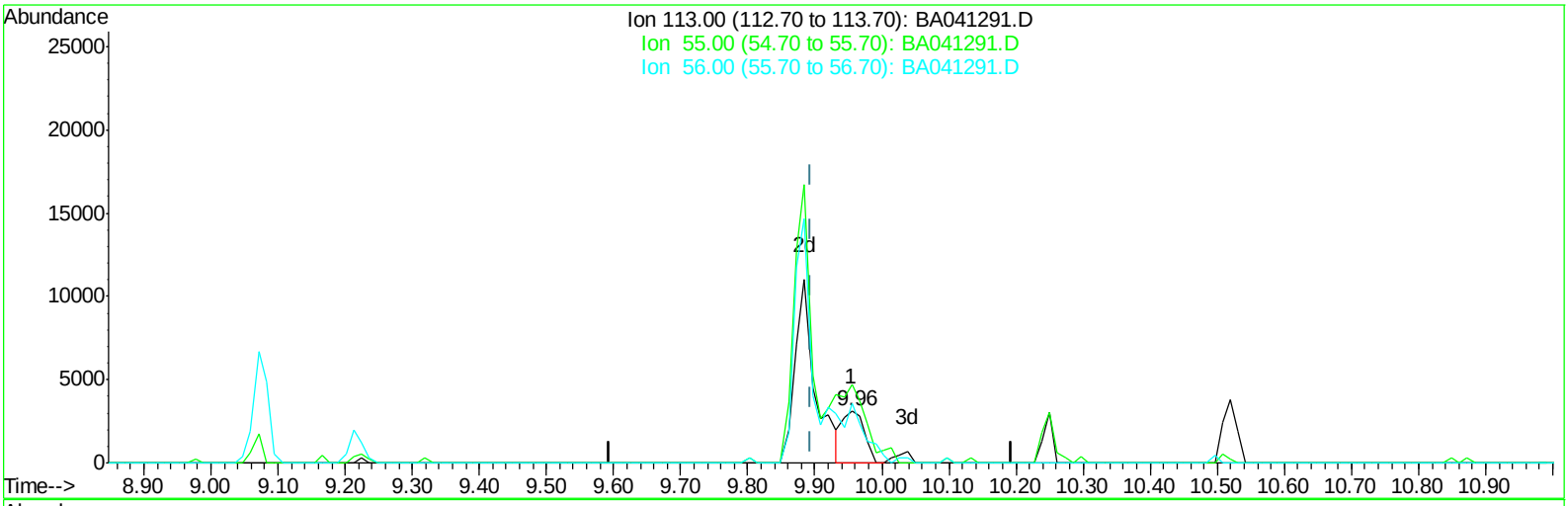
Quant Time: Oct 20 11:08:56 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

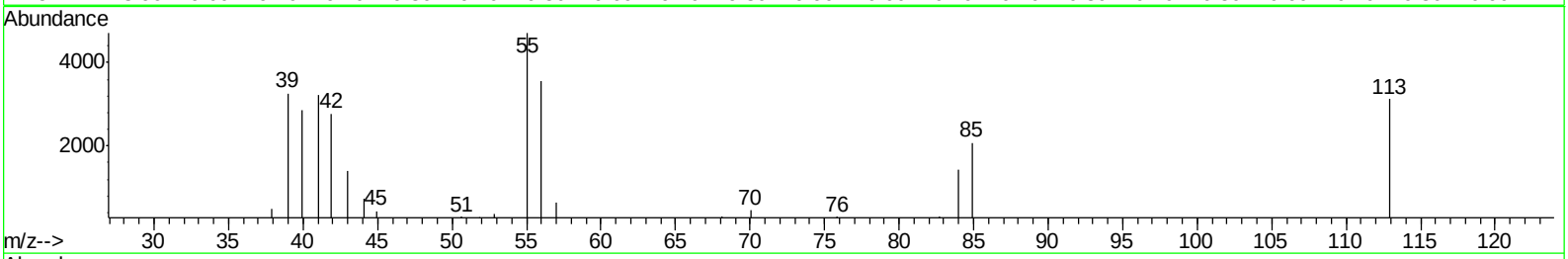


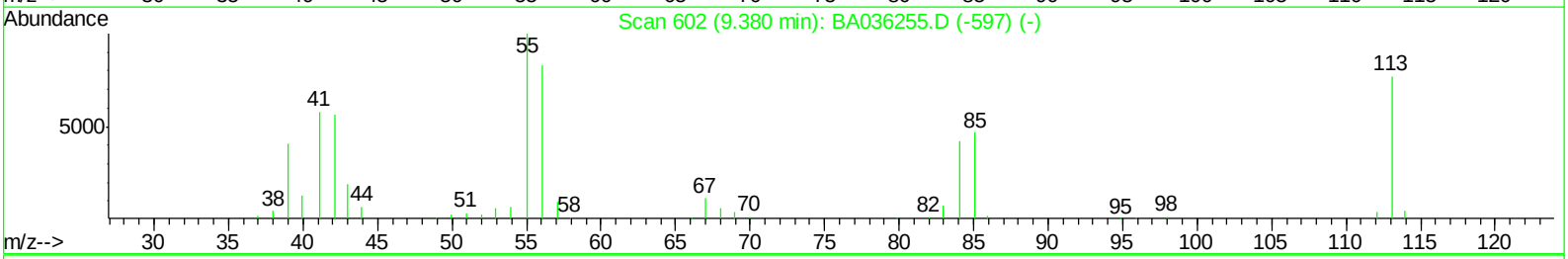
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041291.D

(30) Caprolactam

9.955min (+0.061) 2.73ng/ul

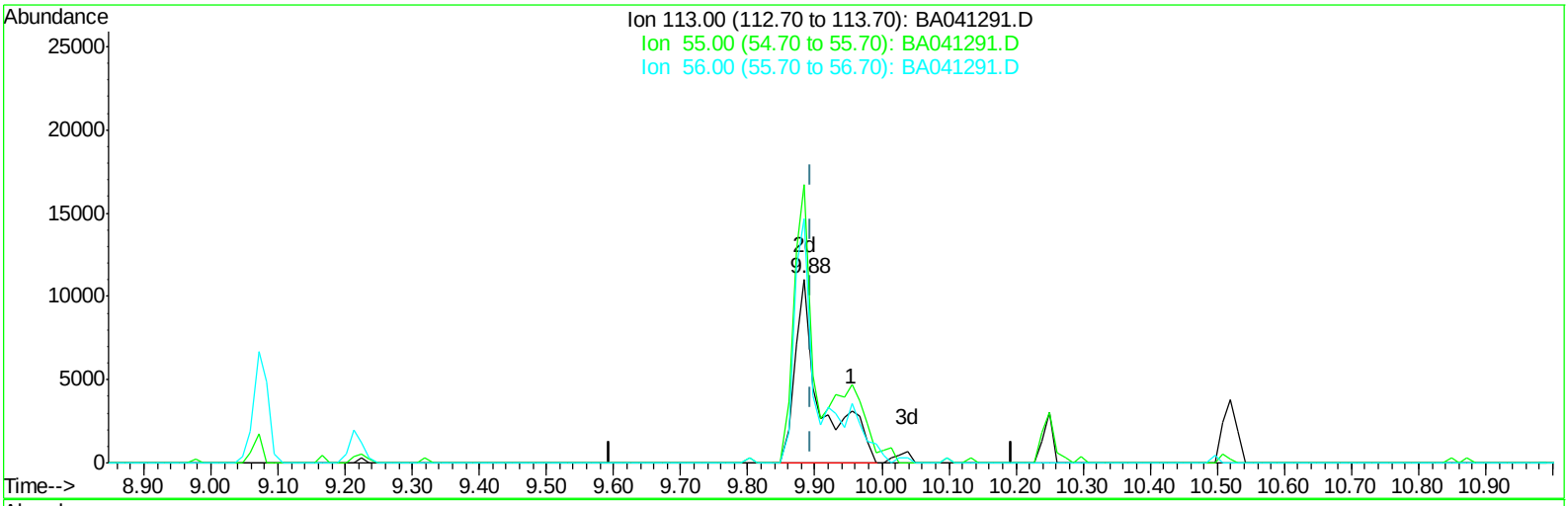
response 7050

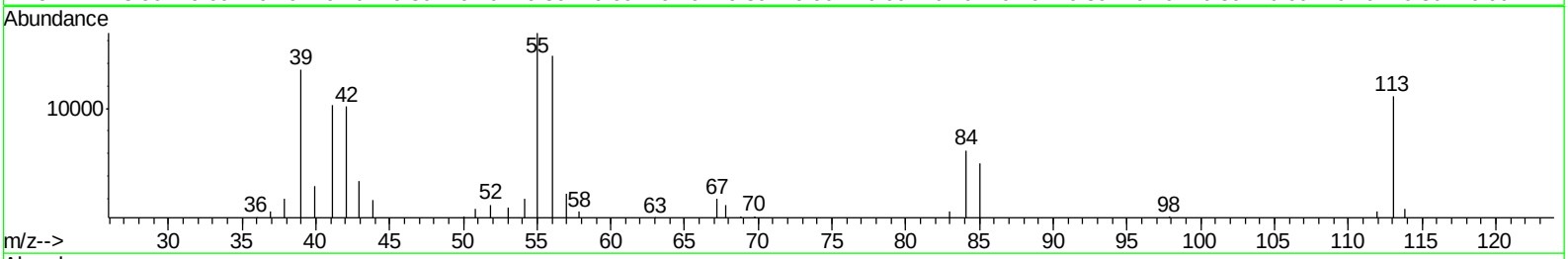
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	150.85
56.00	107.70	114.16
0.00	0.00	0.00

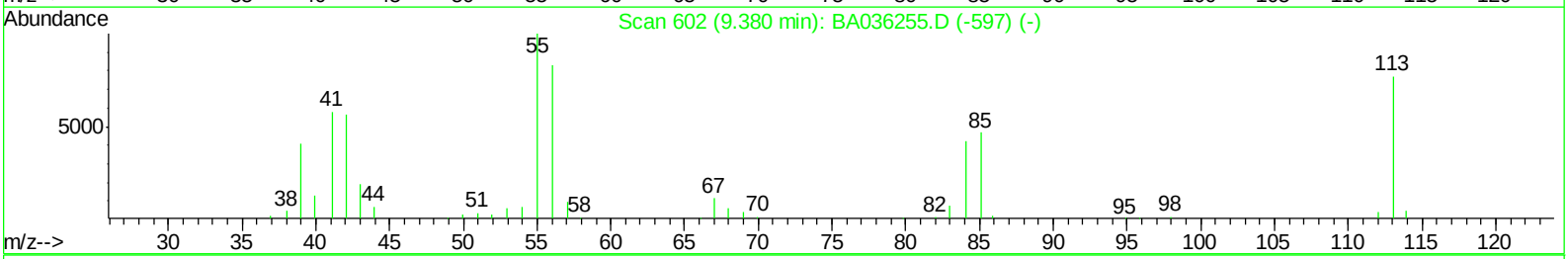
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041291.D

(30) Caprolactam

9.885min (-0.010) 11.54ng/ul m

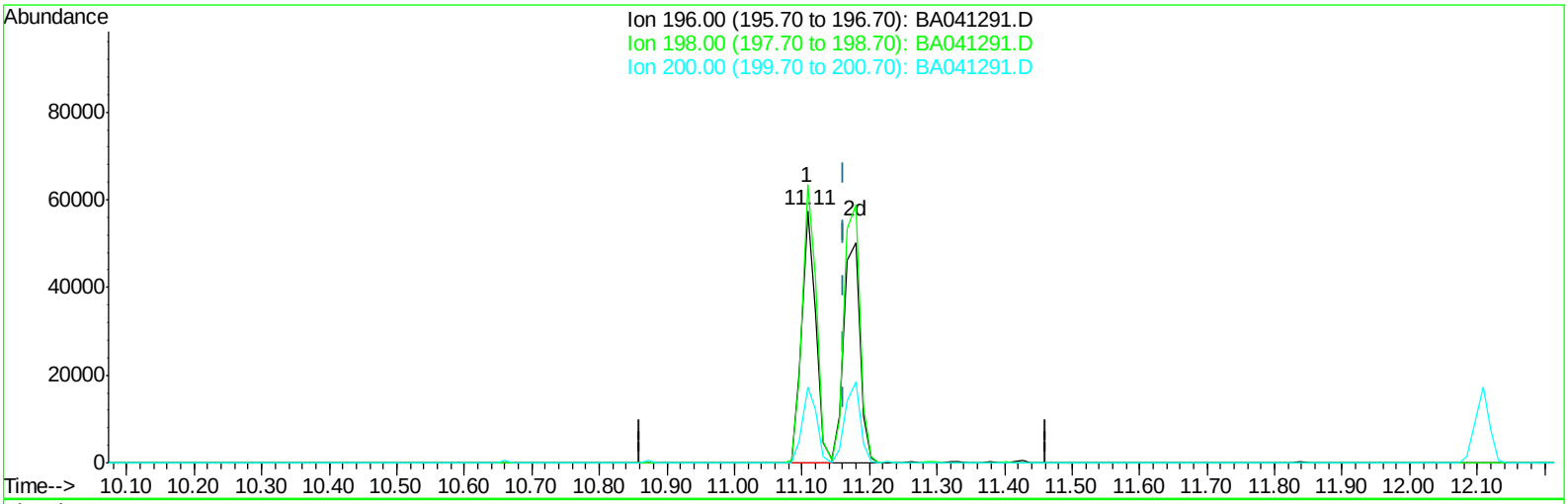
response 29819

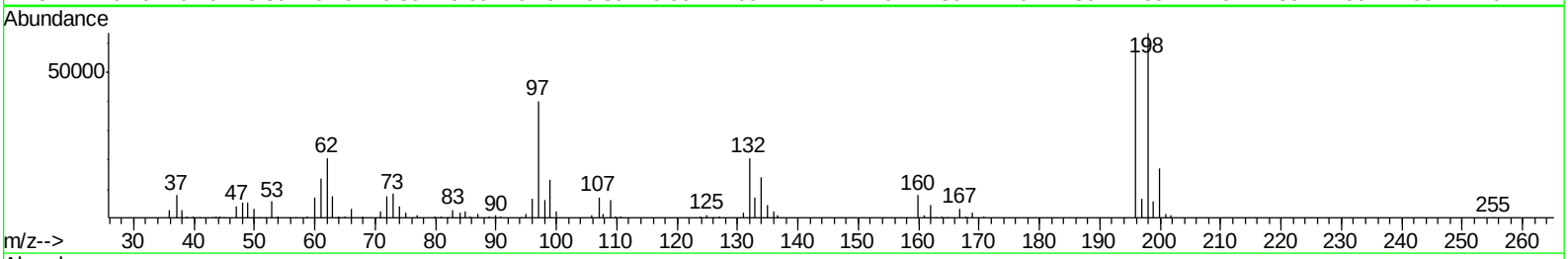
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	151.40
56.00	107.70	132.65#
0.00	0.00	0.00

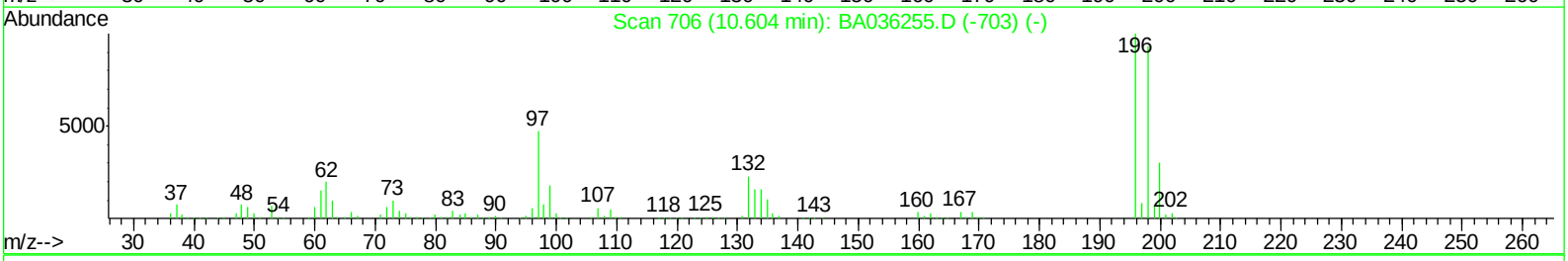
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041291.D

(37) 2,4,5-Trichlorophenol

11.108min (-0.054) 9.45ng/ul

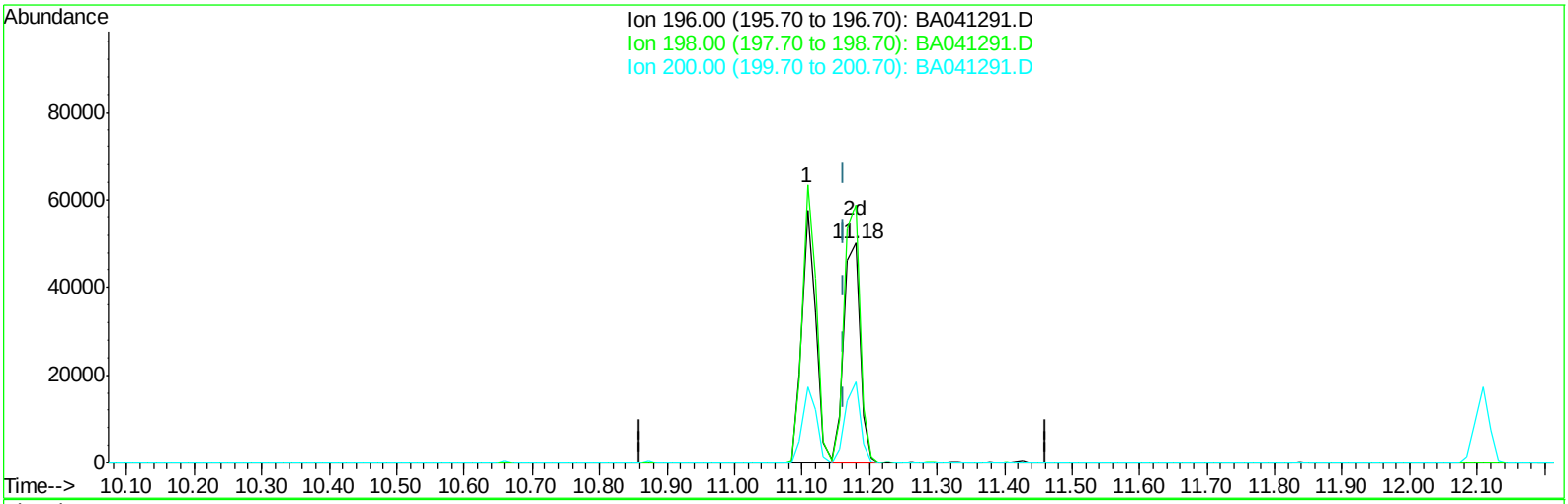
response 83308

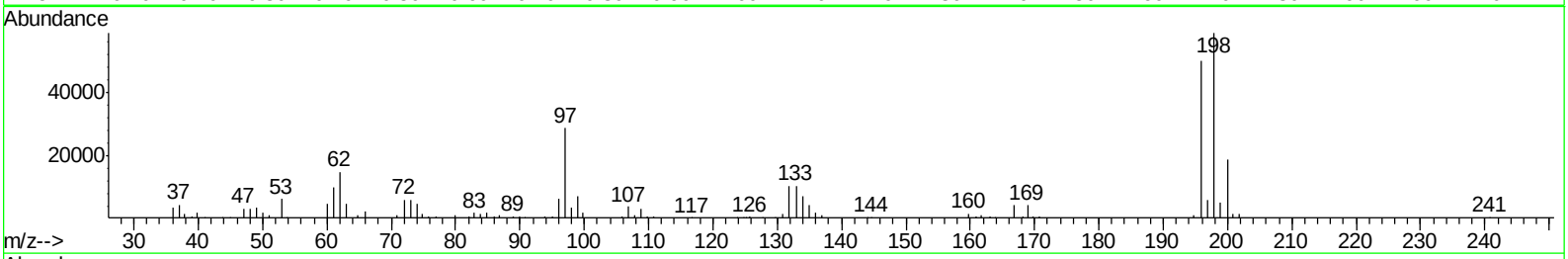
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	110.29
200.00	29.80	29.94
0.00	0.00	0.00

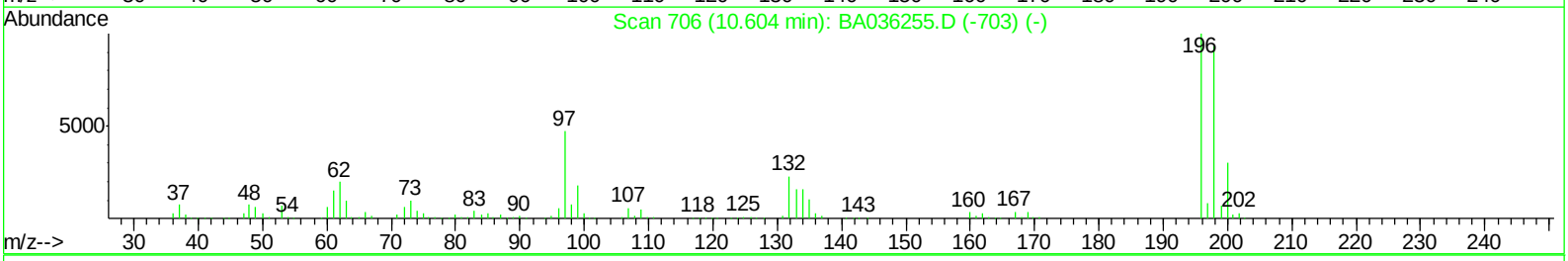
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041291.D

(37) 2,4,5-Trichlorophenol

11.179min (+0.017) 9.54ng/ul m

response 84056

Ion	Exp%	Act%
196.00	100	100
198.00	93.20	117.41#
200.00	29.80	37.04#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:56 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	168902	20.00	ng/ul	0.00
16) Naphthalene-d8	9.07	136	545043	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.66	164	400880	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.75	188	729136	20.00	ng/ul	0.00
73) Chrysene-d12	21.28	240	854938	20.00	ng/ul	-0.03
81) Perylene-d12	25.07	264	770609	20.00	ng/ul	-0.09
System Monitoring Compounds						
3) Phenol-d5	6.04	99	104157	8.06	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.15	67	69796	9.75	ng/ul	0.00
7) 2-Chlorophenol-d4	6.28	132	87536	8.18	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	67864	7.75	ng/ul	0.00
17) Nitrobenzene-d5	7.69	128	46483	8.57	ng/ul	0.01
20) 2-Nitrophenol-d4	8.31	143	60787	9.77	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.78	165	108344	12.03	ng/ul	0.00
27) 4-Chloroaniline-d4	9.21	131	109061	9.43	ng/ul	0.00
41) Dimethylphthalate-d6	12.11	166	260817	9.99	ng/ul	0.01
44) Acenaphthylene-d8	12.33	160	315081	8.91	ng/ul	0.02
49) 4-Nitrophenol-d4	12.96	143	51456	8.03	ng/ul	0.00
55) Fluorene-d10	13.73	176	218692	10.15	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.91	200	72915	9.31	ng/ul	0.00
68) Anthracene-d10	15.86	188	346671	9.51	ng/ul	0.01
74) Pyrene-d10	18.71	212	373261	8.26	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.79	264	354121	8.24	ng/ul	-0.11

Target Compounds						Qvalue
2) Benzaldehyde	5.93	77	64657	9.13	ng/ul	92
4) Phenol	6.07	94	110412	8.19	ng/ul#	44
6) Bis(2-Chloroethyl)ether	6.23	93	88816	8.66	ng/ul	94
8) 2-Chlorophenol	6.32	128	97815	9.00	ng/ul#	91
9) 2-Methylphenol	7.14	108	75483	8.42	ng/ul	98
10) 2,2'-oxybis(1-Chloropropan	7.20	45	132794	9.27	ng/ul#	95
12) Acetophenone	7.41	105	133717	10.33	ng/ul#	77
13) N-Nitroso-di-n-propylamine	7.43	70	77646	11.78	ng/ul#	67
14) 4-Methylphenol	7.43	108	80238	8.63	ng/ul	95
15) Hexachloroethane	7.60	117	57453	10.41	ng/ul#	86
18) Nitrobenzene	7.72	77	119954	11.89	ng/ul#	82
19) Isophorone	8.19	82	215378	12.63	ng/ul#	96
21) 2-Nitrophenol	8.34	139	62472	9.75	ng/ul#	75
22) 2,4-Dimethylphenol	8.45	107	107158	11.73	ng/ul	86
23) Bis(2-Chloroethoxy)methane	8.63	93	100193	8.67	ng/ul#	94
25) 2,4-Dichlorophenol	8.80	162	111728	12.27	ng/ul	94
26) Naphthalene	9.12	128	240254	8.99	ng/ul	99
28) 4-Chloroaniline	9.24	127	69167	6.44	ng/ul	98
29) Hexachlorobutadiene	9.40	225	90346	16.92	ng/ul	96
30) Caprolactam	9.88	113	29819m	11.54	ng/ul	
31) 4-Chloro-3-methylphenol	10.25	107	97941	12.67	ng/ul	90
32) 2-Methylnaphthalene	10.52	142	191977	11.07	ng/ul	95
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	140615	11.32	ng/ul	94
35) Hexachlorocyclopentadiene	10.87	237	97956	14.23	ng/ul	94

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041291.D
Acq On : 19 Oct 2008 15:53
Operator : QM
Sample : ICC0010BA0050
Misc : SSTD01050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 11:08:56 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

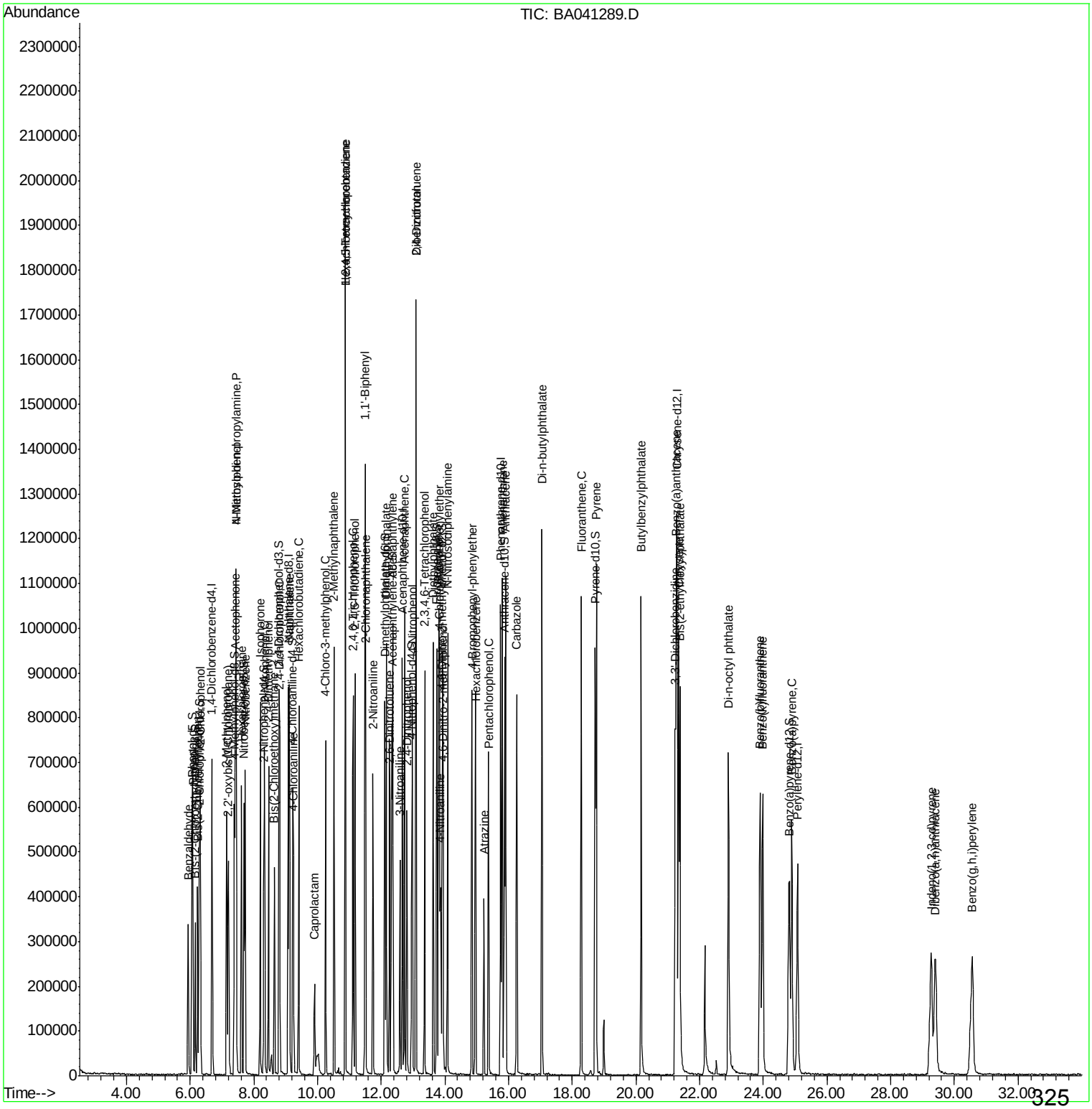
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.11	196	83308	10.15	ng/ul	86
37) 2,4,5-Trichlorophenol	11.18	196	84056m	9.54	ng/ul	
38) 1,1'-Biphenyl	11.49	154	266637	9.56	ng/ul#	93
39) 2-Chloronaphthalene	11.51	162	230014	9.75	ng/ul	95
40) 2-Nitroaniline	11.73	65	70850	10.59	ng/ul	81
42) Dimethylphthalate	12.15	163	301075	11.09	ng/ul	99
43) 2,6-Dinitrotoluene	12.26	165	68070	9.54	ng/ul	92
45) Acenaphthylene	12.36	152	315685	9.03	ng/ul	95
46) 3-Nitroaniline	12.58	138	54427	7.86	ng/ul#	70
47) Acenaphthene	12.72	153	209632	9.94	ng/ul	96
48) 2,4-Dinitrophenol	12.80	184	54950	12.96	ng/ul#	83
50) 4-Nitrophenol	12.97	109	63311	15.20	ng/ul#	60
51) Dibenzofuran	13.09	168	298402	9.62	ng/ul#	87
52) 2,4-Dinitrotoluene	13.09	165	91193	10.19	ng/ul#	23
53) 2,3,4,6-Tetrachlorophenol	13.36	232	85434	12.16	ng/ul#	92
54) Diethylphthalate	13.63	149	286186	10.56	ng/ul	97
56) Fluorene	13.80	166	245237	9.71	ng/ul	98
57) 4-Chlorophenyl-phenylether	13.83	204	132018	10.70	ng/ul	97
58) 4-Nitroaniline	13.85	138	57658	8.66	ng/ul#	21
61) 4,6-Dinitro-2-methylphenol	13.92	198	75727	9.96	ng/ul#	96
62) N-Nitrosodiphenylamine	14.08	169	197771	8.08	ng/ul	98
63) 4-Bromophenyl-phenylether	14.84	248	88886	10.02	ng/ul	93
64) Hexachlorobenzene	14.96	284	108676	10.50	ng/ul	95
65) Atrazine	15.22	200	35500	4.67	ng/ul	87
66) Pentachlorophenol	15.37	266	73196	11.97	ng/ul	90
67) Phenanthrene	15.79	178	354319	8.00	ng/ul	99
69) Anthracene	15.90	178	376792	8.75	ng/ul	96
70) Carbazole	16.25	167	328314	8.60	ng/ul	95
71) Di-n-butylphthalate	17.04	149	492261	8.56	ng/ul#	97
72) Fluoranthene	18.28	202	443396	9.64	ng/ul#	87
75) Pyrene	18.75	202	481151	8.40	ng/ul#	83
76) Butylbenzylphthalate	20.16	149	218838	7.31	ng/ul	86
77) 3,3'-Dichlorobenzidine	21.23	252	128809	7.76	ng/ul#	96
78) Benzo(a)anthracene	21.26	228	443795	8.00	ng/ul	96
79) Bis(2-ethylhexyl)phthalate	21.38	149	241943	7.14	ng/ul#	92
80) Chrysene	21.34	228	409735	8.39	ng/ul	98
82) Di-n-octyl phthalate	22.90	149	400469	6.39	ng/ul	100
83) Benzo(b)fluoranthene	23.88	252	422477	8.20	ng/ul#	90
84) Benzo(k)fluoranthene	23.97	252	417194	8.25	ng/ul#	95
86) Benzo(a)pyrene	24.87	252	405701	8.56	ng/ul#	95
87) Indeno(1,2,3-cd)pyrene	29.24	276	334187	8.18	ng/ul#	66
88) Dibenzo(a,h)anthracene	29.36	278	294407	7.51	ng/ul#	92
89) Benzo(g,h,i)perylene	30.51	276	351018	7.96	ng/ul#	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

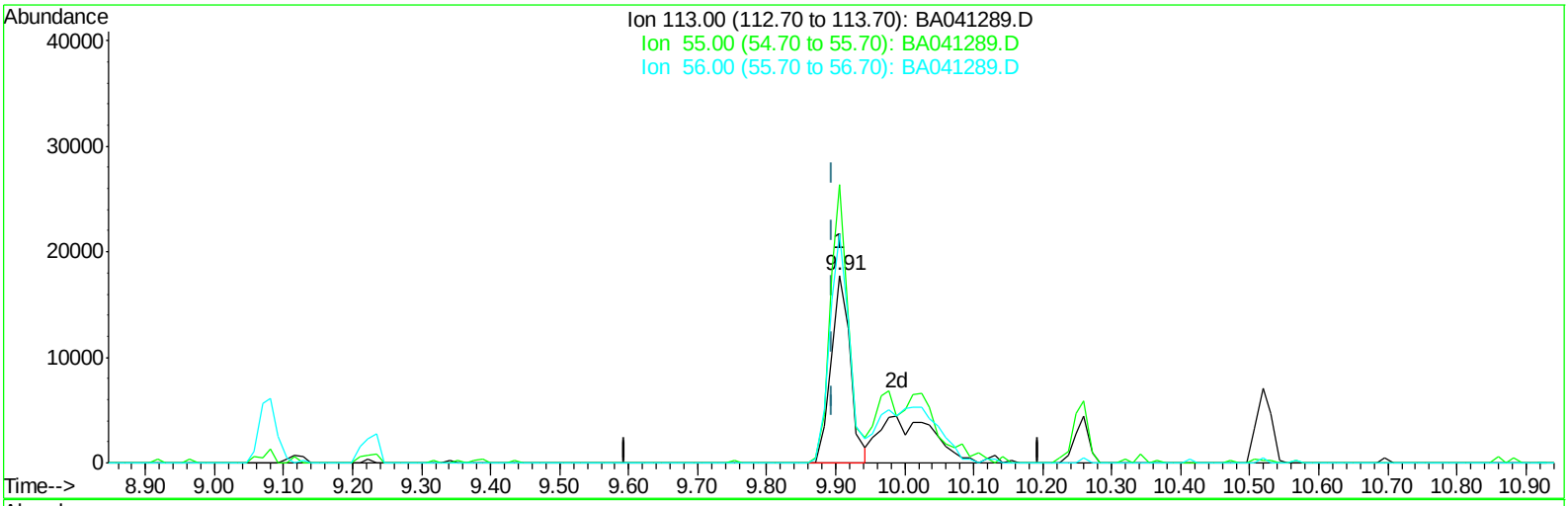
Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

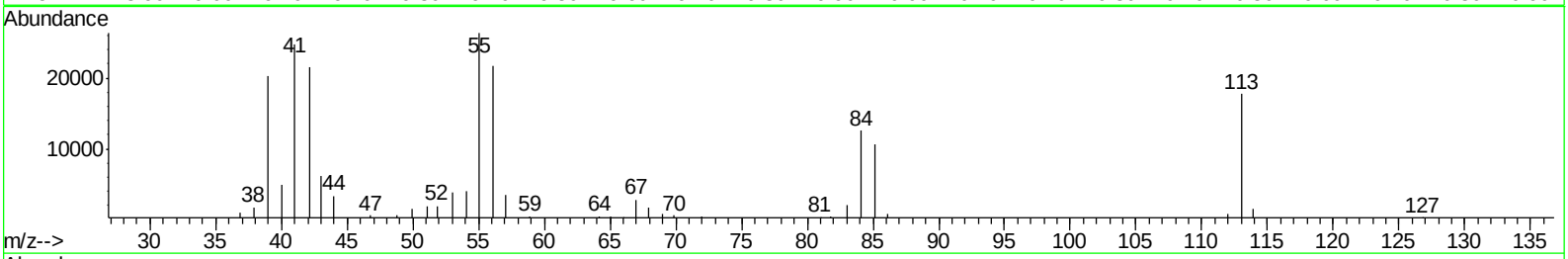


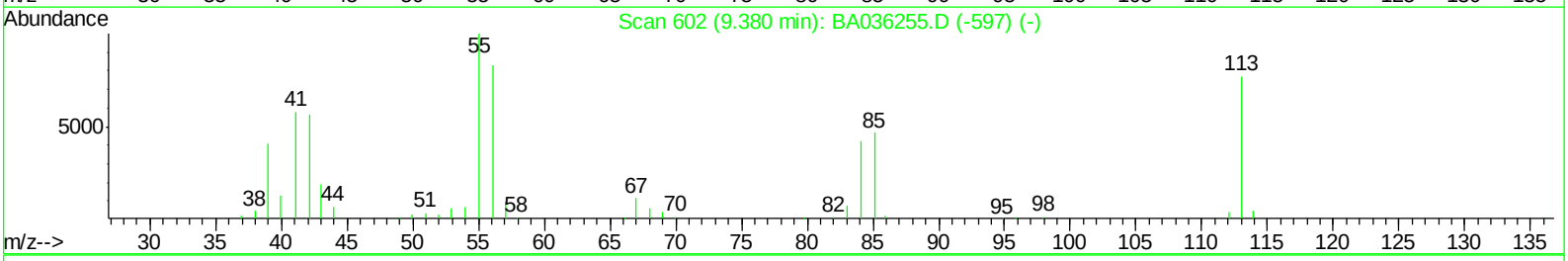
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(30) Caprolactam

9.906min (+0.011) 13.31ng/ul

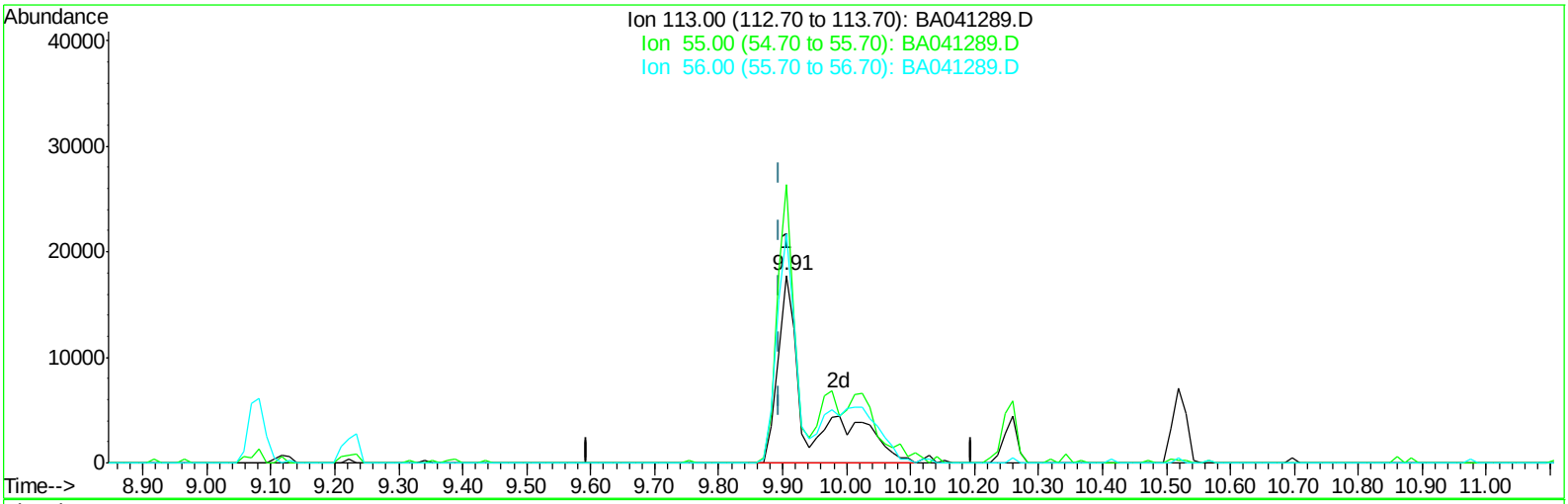
response 34423

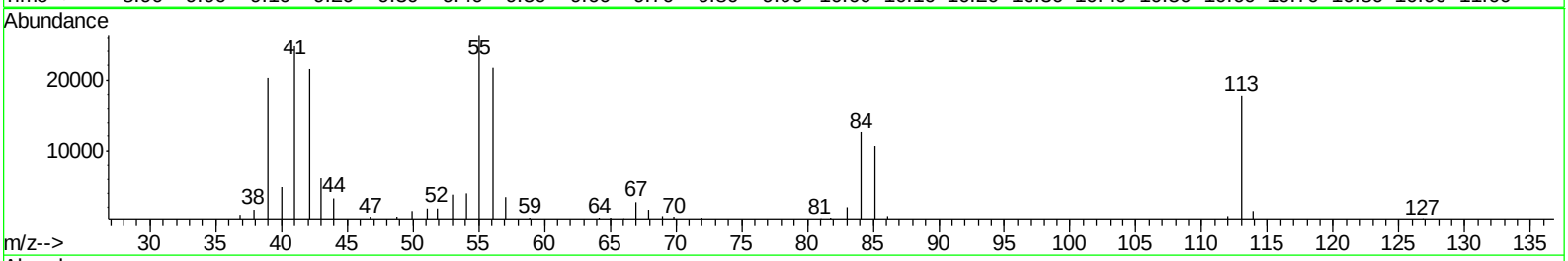
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	148.47
56.00	107.70	121.85
0.00	0.00	0.00

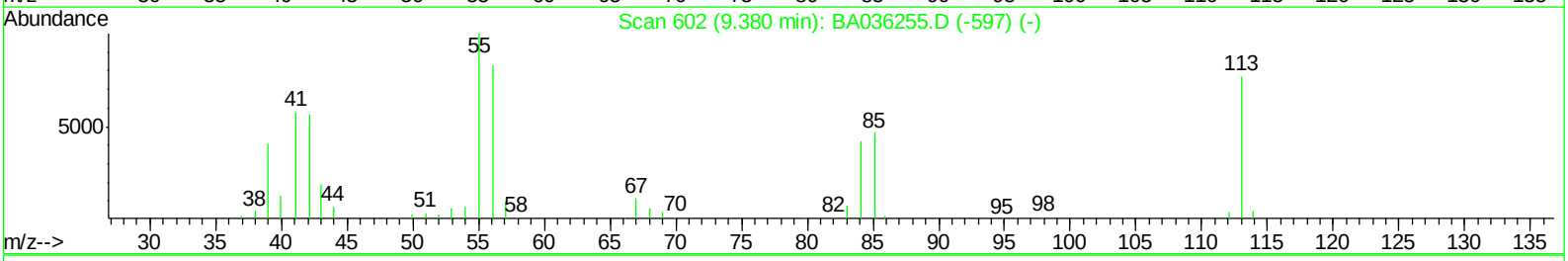
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(30) Caprolactam

9.906min (+0.011) 22.67ng/ul m

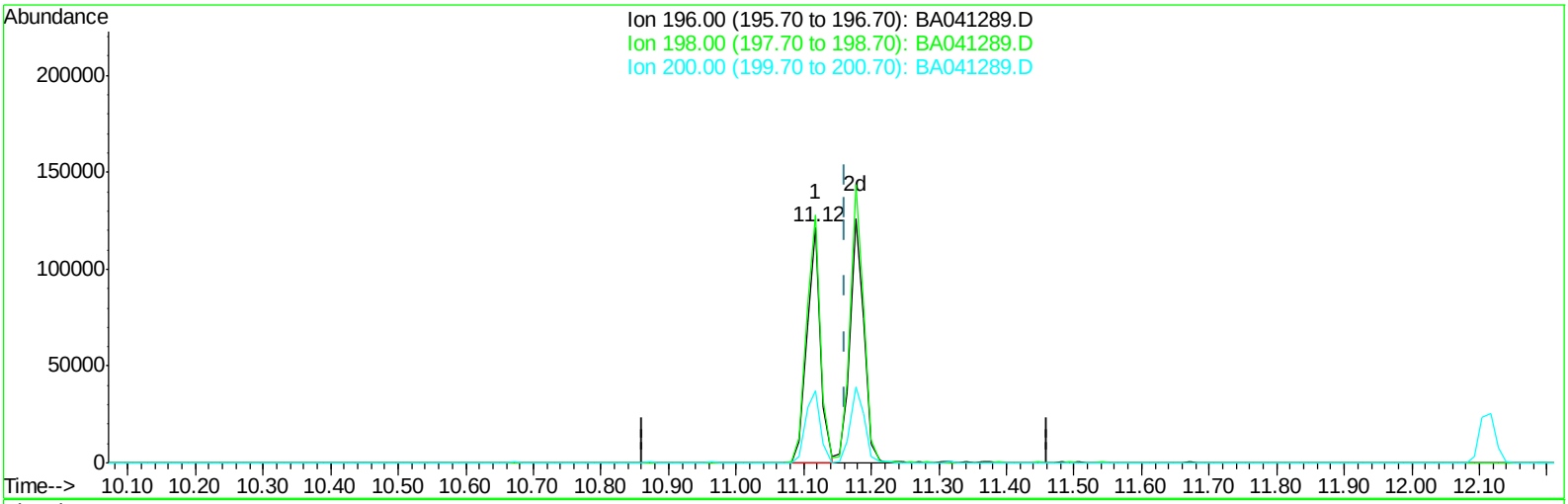
response 58639

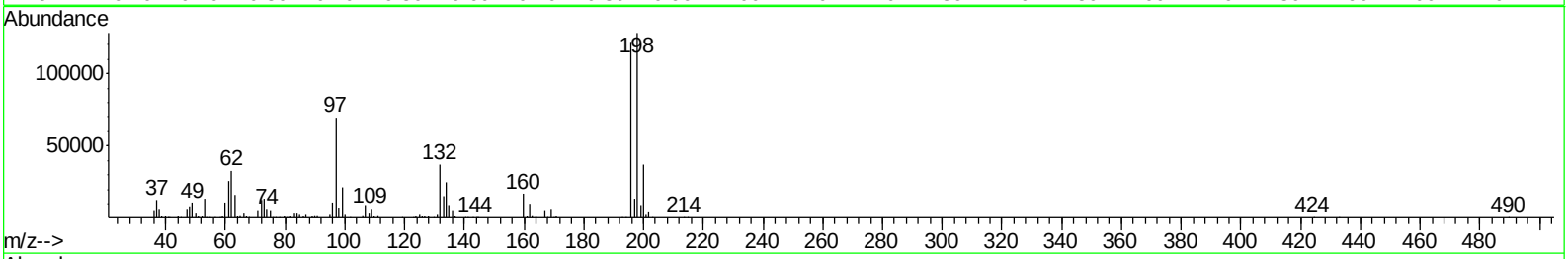
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	148.47
56.00	107.70	121.85
0.00	0.00	0.00

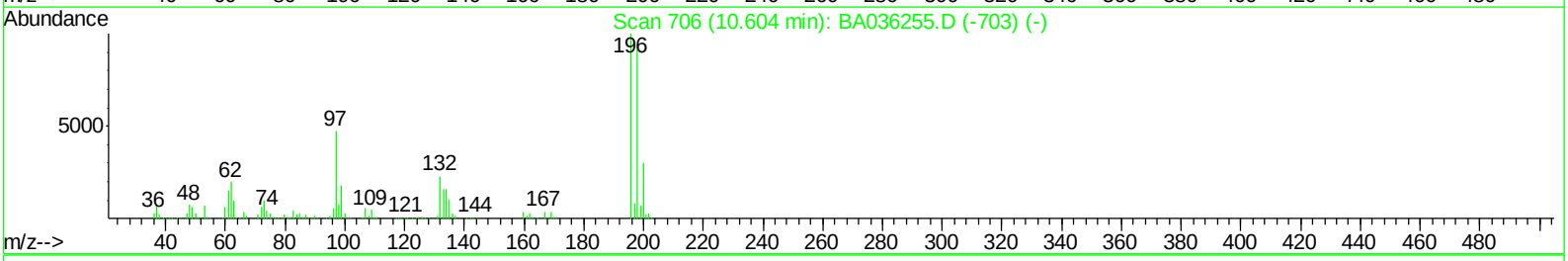
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(37) 2,4,5-Trichlorophenol

11.118min (-0.044) 19.11ng/ul

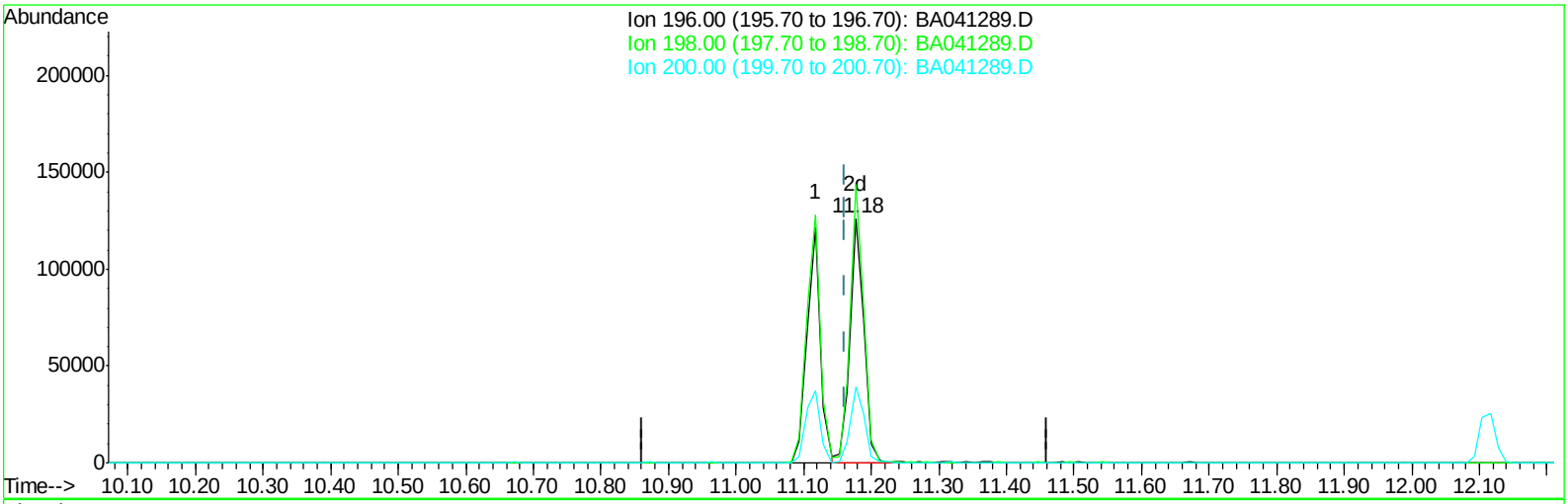
response 168238

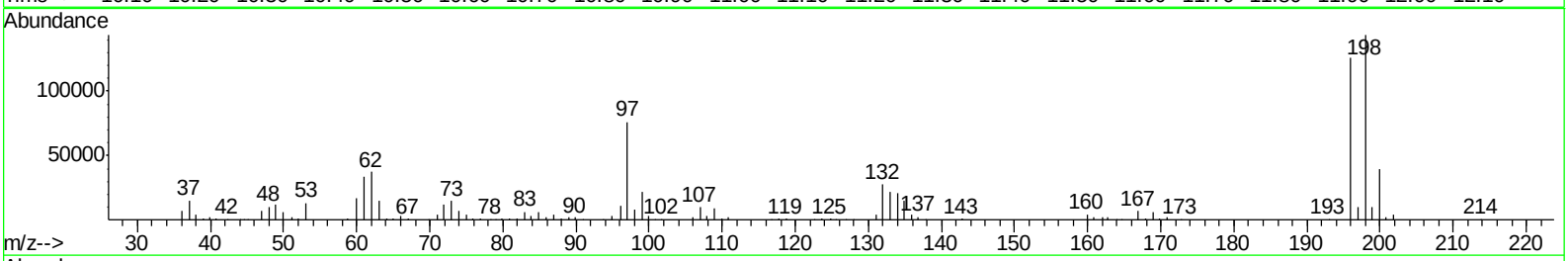
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	105.29
200.00	29.80	30.71
0.00	0.00	0.00

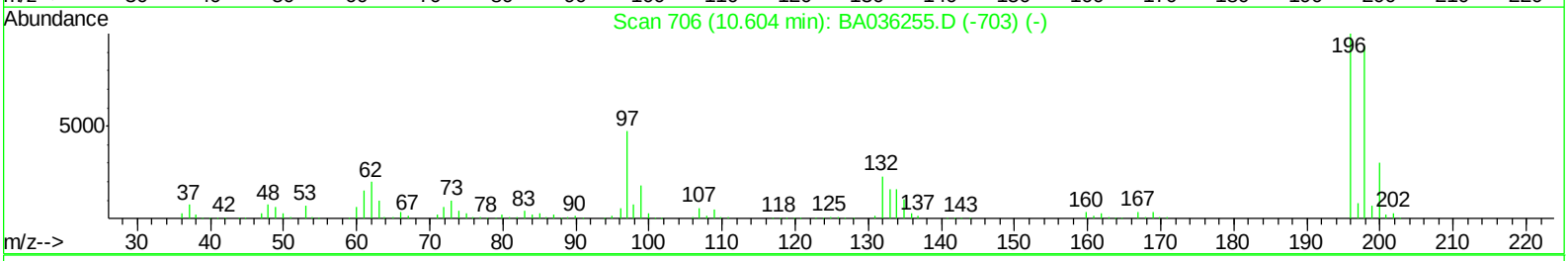
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(37) 2,4,5-Trichlorophenol

11.177min (+0.015) 20.14ng/ul m

response 177236

Ion	Exp%	Act%
196.00	100	100
198.00	93.20	113.87#
200.00	29.80	31.05
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	165870	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	545763	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.67	164	400296	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.76	188	734942	20.00	ng/ul	0.02
73) Chrysene-d12	21.29	240	863637	20.00	ng/ul	-0.02
81) Perylene-d12	25.07	264	688065	20.00	ng/ul	-0.09
System Monitoring Compounds						
3) Phenol-d5	6.06	99	186621	14.70	ng/ul	0.02
5) Bis-(2-Chloroethyl)ether-d	6.15	67	132940	18.90	ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	174573	16.62	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	136003	15.82	ng/ul	0.00
17) Nitrobenzene-d5	7.69	128	95677	17.61	ng/ul	0.01
20) 2-Nitrophenol-d4	8.32	143	113713	18.26	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.79	165	213796	23.71	ng/ul	0.01
27) 4-Chloroaniline-d4	9.22	131	208874	18.04	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	525622	20.15	ng/ul	0.02
44) Acenaphthylene-d8	12.34	160	637095	18.04	ng/ul	0.02
49) 4-Nitrophenol-d4	12.96	143	106542	16.65	ng/ul	0.02
55) Fluorene-d10	13.74	176	411456	19.13	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.92	200	144029	18.25	ng/ul	0.01
68) Anthracene-d10	15.86	188	696653	18.96	ng/ul	0.01
74) Pyrene-d10	18.72	212	728593	15.95	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.82	264	698946	18.21	ng/ul	-0.08

Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	103750	14.91	ng/ul	87
4) Phenol	6.08	94	216356	16.34	ng/ul#	53
6) Bis(2-Chloroethyl)ether	6.23	93	168168	16.69	ng/ul#	84
8) 2-Chlorophenol	6.32	128	192661	18.06	ng/ul#	83
9) 2-Methylphenol	7.14	108	146246	16.61	ng/ul	97
10) 2,2'-oxybis(1-Chloropropan	7.20	45	258881	18.41	ng/ul	99
12) Acetophenone	7.42	105	275375	21.67	ng/ul#	80
13) N-Nitroso-di-n-propylamine	7.45	70	132821	20.52	ng/ul#	68
14) 4-Methylphenol	7.45	108	143778	15.74	ng/ul	86
15) Hexachloroethane	7.61	117	106361	19.63	ng/ul#	80
18) Nitrobenzene	7.73	77	221353	21.91	ng/ul#	90
19) Isophorone	8.20	82	454028	26.59	ng/ul	93
21) 2-Nitrophenol	8.34	139	123405	19.23	ng/ul#	66
22) 2,4-Dimethylphenol	8.46	107	207124	22.64	ng/ul	92
23) Bis(2-Chloroethoxy)methane	8.65	93	209308	18.08	ng/ul#	96
25) 2,4-Dichlorophenol	8.81	162	218866	24.00	ng/ul#	93
26) Naphthalene	9.12	128	476882	17.81	ng/ul	96
28) 4-Chloroaniline	9.25	127	147026	13.67	ng/ul	99
29) Hexachlorobutadiene	9.41	225	169292	31.67	ng/ul	94
30) Caprolactam	9.91	113	58639m	22.67	ng/ul	
31) 4-Chloro-3-methylphenol	10.26	107	180855	23.36	ng/ul	94
32) 2-Methylnaphthalene	10.52	142	370782	21.36	ng/ul	95
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	304728	24.57	ng/ul	94
35) Hexachlorocyclopentadiene	10.87	237	208950	30.40	ng/ul	99

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

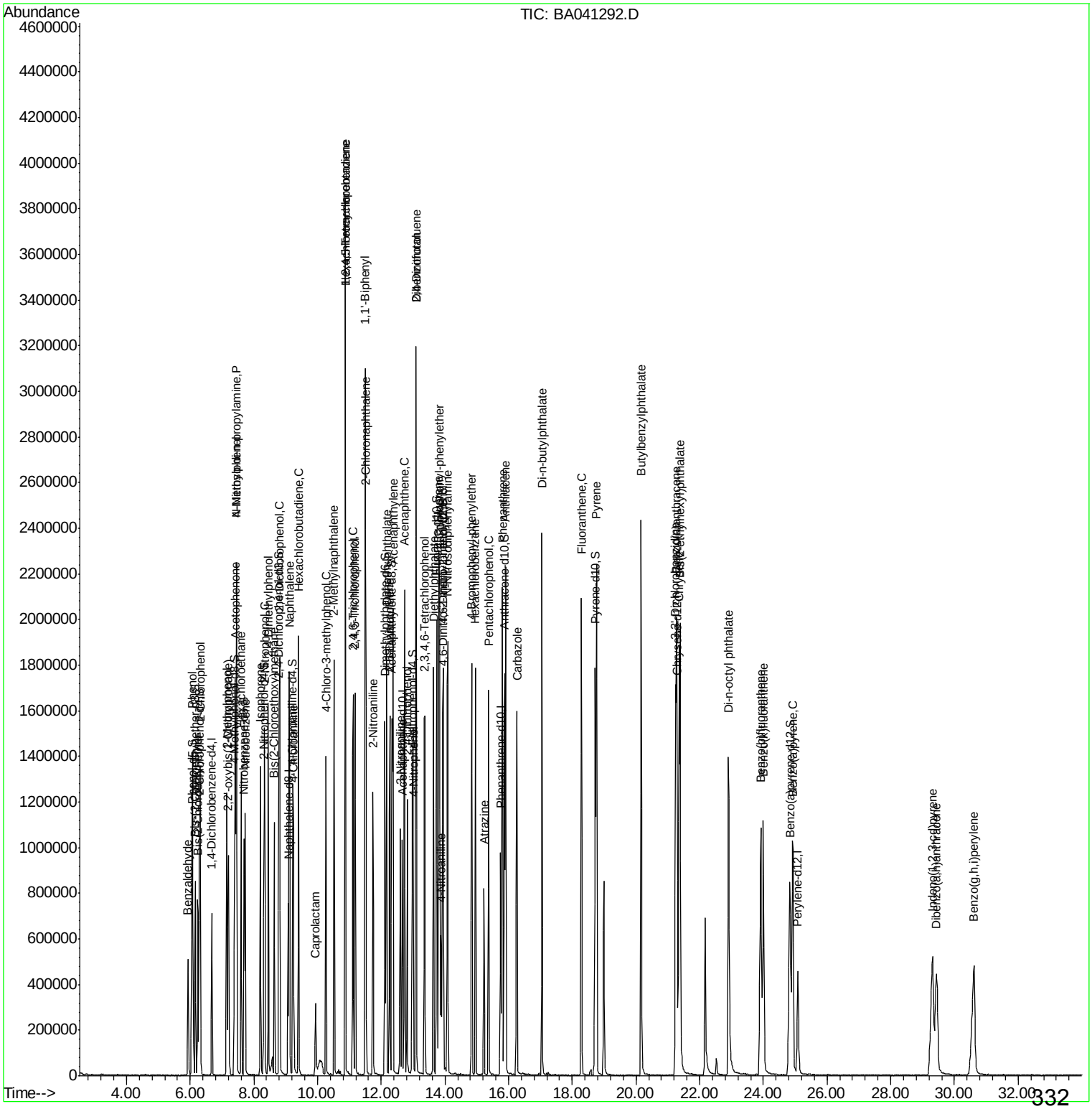
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	168238	20.52 ng/ul	90
37) 2,4,5-Trichlorophenol	11.18	196	177236m	20.14 ng/ul	
38) 1,1'-Biphenyl	11.49	154	524452	18.82 ng/ul#	93
39) 2-Chloronaphthalene	11.52	162	458657	19.47 ng/ul	95
40) 2-Nitroaniline	11.74	65	143010	21.40 ng/ul#	76
42) Dimethylphthalate	12.16	163	572137	21.11 ng/ul	98
43) 2,6-Dinitrotoluene	12.27	165	143898	20.19 ng/ul	93
45) Acenaphthylene	12.36	152	605238	17.34 ng/ul#	93
46) 3-Nitroaniline	12.60	138	110110	15.93 ng/ul	99
47) Acenaphthene	12.73	153	408102	19.38 ng/ul	94
48) 2,4-Dinitrophenol	12.81	184	111732	26.40 ng/ul#	87
50) 4-Nitrophenol	12.98	109	120941	29.08 ng/ul#	71
51) Dibenzofuran	13.09	168	596874	19.27 ng/ul#	85
52) 2,4-Dinitrotoluene	13.09	165	179165	20.06 ng/ul#	57
53) 2,3,4,6-Tetrachlorophenol	13.36	232	174059	24.80 ng/ul#	88
54) Diethylphthalate	13.64	149	554598	20.49 ng/ul	99
56) Fluorene	13.80	166	485913	19.26 ng/ul	98
57) 4-Chlorophenyl-phenylether	13.84	204	267647	21.73 ng/ul	94
58) 4-Nitroaniline	13.86	138	98050	14.74 ng/ul#	56
61) 4,6-Dinitro-2-methylphenol	13.94	198	149082	19.46 ng/ul	93
62) N-Nitrosodiphenylamine	14.08	169	420493	17.04 ng/ul	97
63) 4-Bromophenyl-phenylether	14.85	248	177082	19.81 ng/ul	90
64) Hexachlorobenzene	14.97	284	206010	19.74 ng/ul	96
65) Atrazine	15.23	200	71945	9.39 ng/ul	93
66) Pentachlorophenol	15.38	266	156819	25.43 ng/ul	94
67) Phenanthrene	15.80	178	736152	16.48 ng/ul	100
69) Anthracene	15.91	178	725047	16.70 ng/ul	99
70) Carbazole	16.25	167	653398	16.99 ng/ul	98
71) Di-n-butylphthalate	17.05	149	941636	16.24 ng/ul#	95
72) Fluoranthene	18.28	202	867225	18.71 ng/ul#	86
75) Pyrene	18.76	202	896458	15.49 ng/ul#	85
76) Butylbenzylphthalate	20.16	149	464058	15.35 ng/ul	97
77) 3,3'-Dichlorobenzidine	21.23	252	298536	17.81 ng/ul	96
78) Benzo(a)anthracene	21.27	228	857385	15.29 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.38	149	436825	12.76 ng/ul	99
80) Chrysene	21.35	228	759670	15.39 ng/ul	95
82) Di-n-octyl phthalate	22.90	149	868725	15.53 ng/ul	100
83) Benzo(b)fluoranthene	23.90	252	863642	18.77 ng/ul#	91
84) Benzo(k)fluoranthene	23.98	252	746117	16.53 ng/ul#	94
86) Benzo(a)pyrene	24.90	252	780602	18.44 ng/ul#	91
87) Indeno(1,2,3-cd)pyrene	29.28	276	710531	19.49 ng/ul#	65
88) Dibenzo(a,h)anthracene	29.40	278	574259	16.41 ng/ul#	90
89) Benzo(g,h,i)perylene	30.56	276	730437	18.56 ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

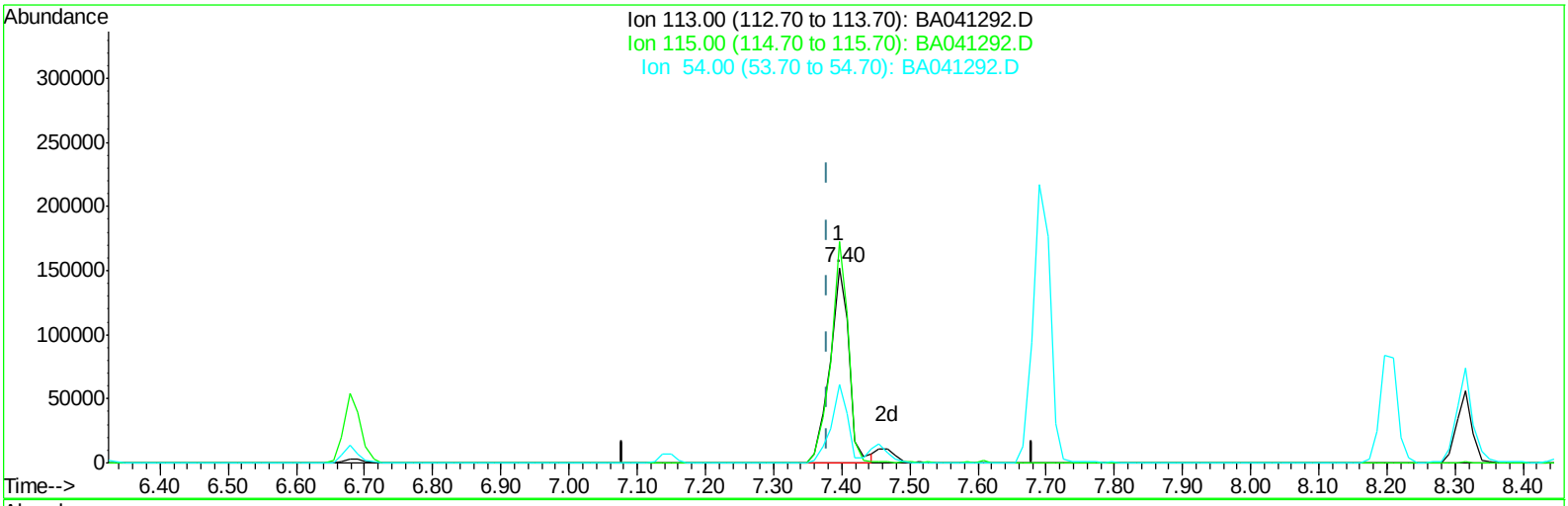
Quant Time: Oct 20 11:10:19 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

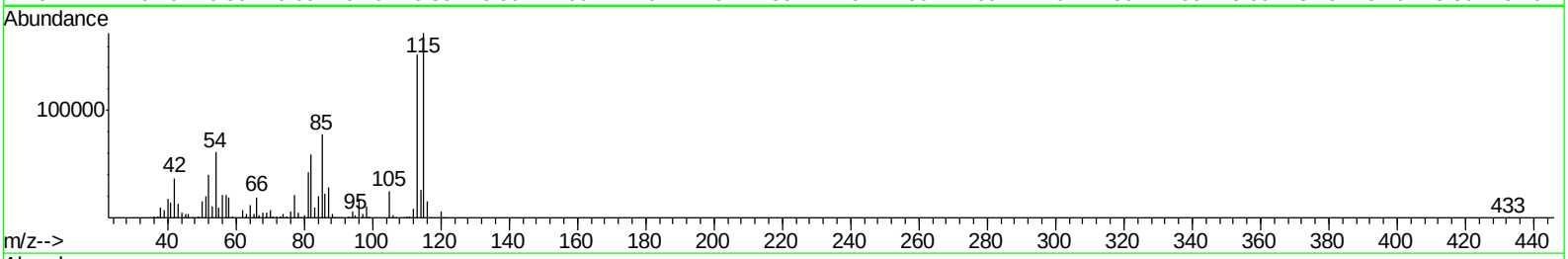


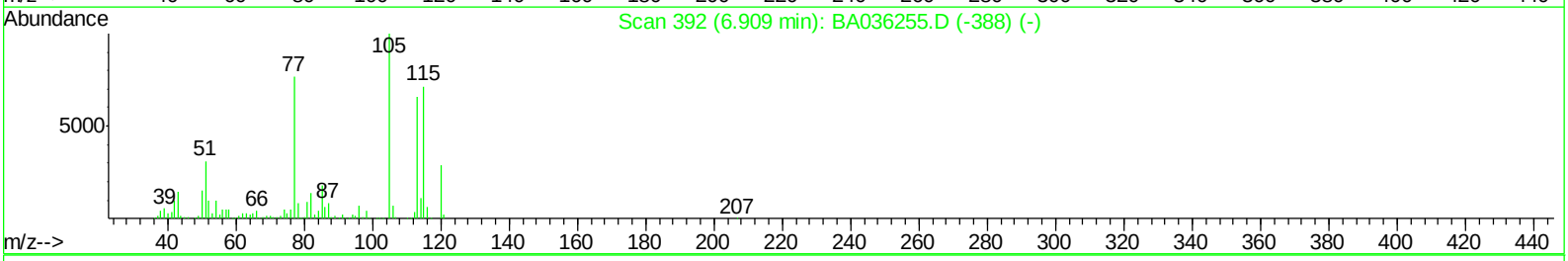
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:09:38 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041292.D

(11) 4-Methylphenol-d8 (S)

7.396min (+0.016) 33.61ng/ul

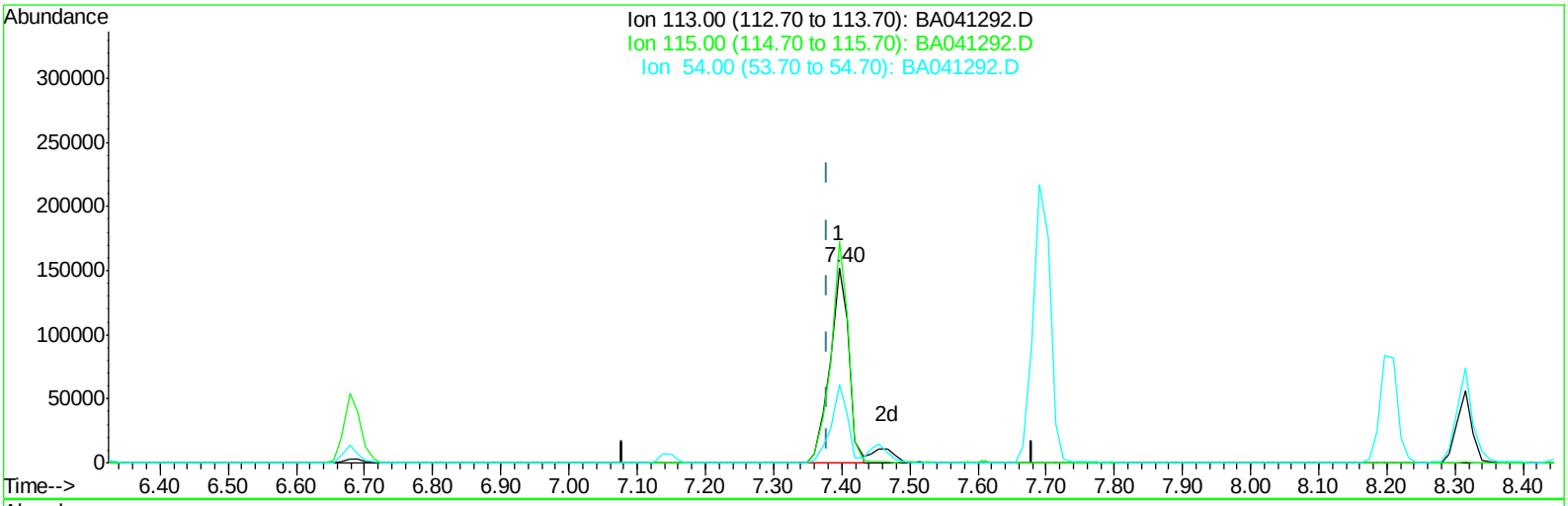
response 296928

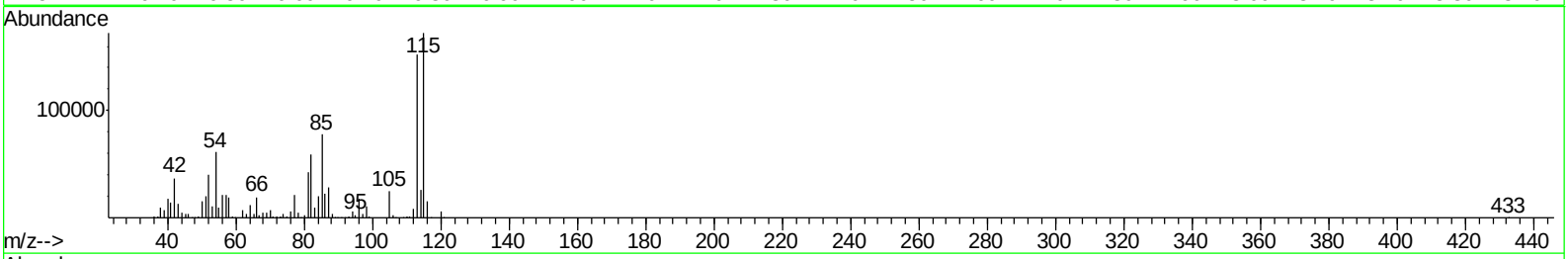
Ion	Exp%	Act%
113.00	100	100
115.00	108.80	113.29
54.00	14.90	40.27#
0.00	0.00	0.00

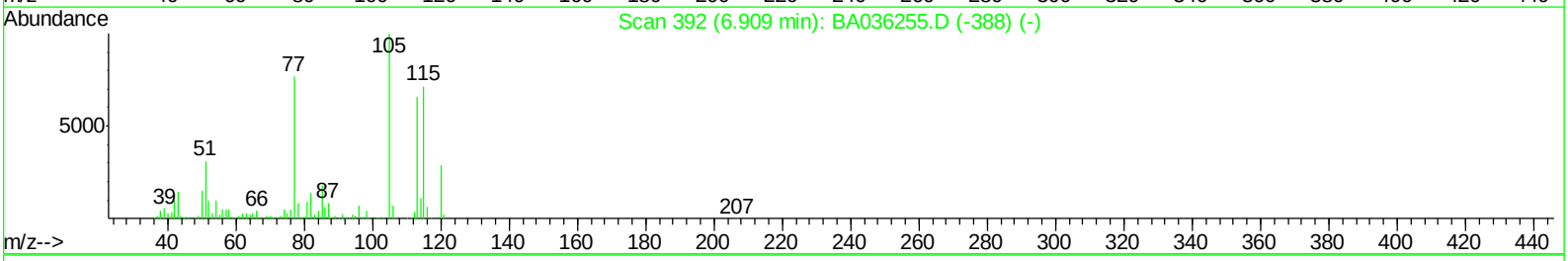
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:09:38 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041292.D

(11) 4-Methylphenol-d8 (S)

7.396min (+0.016) 33.02ng/ul m

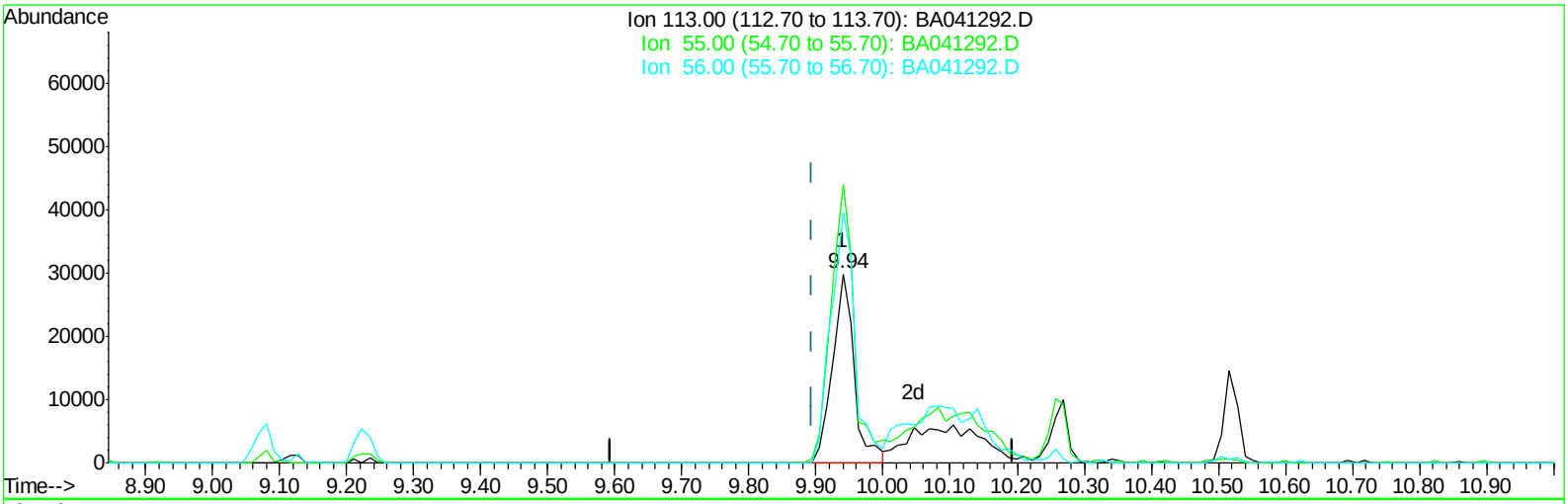
response 291706

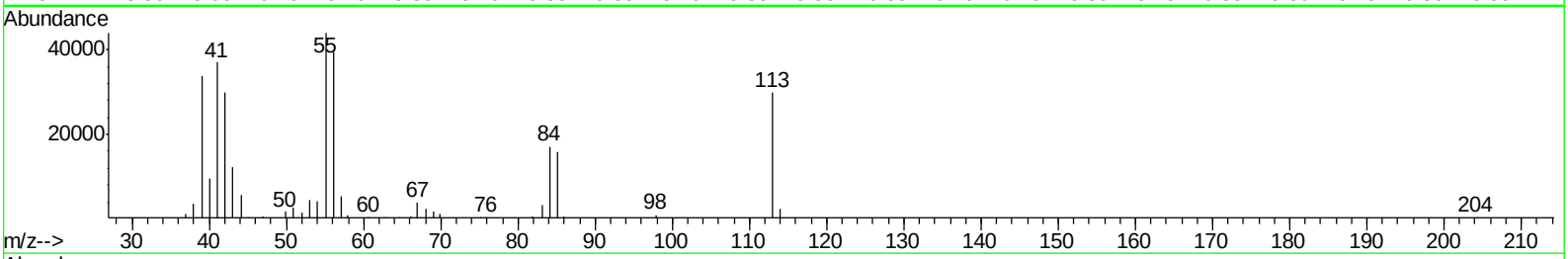
Ion	Exp%	Act%
113.00	100	100
115.00	108.80	113.29
54.00	14.90	40.27#
0.00	0.00	0.00

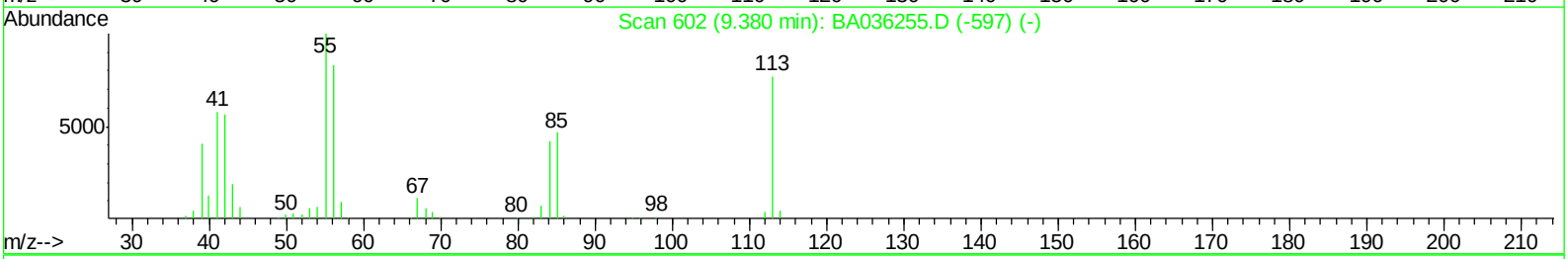
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:09:38 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041292.D

(30) Caprolactam

9.940min (+0.045) 25.90ng/ul

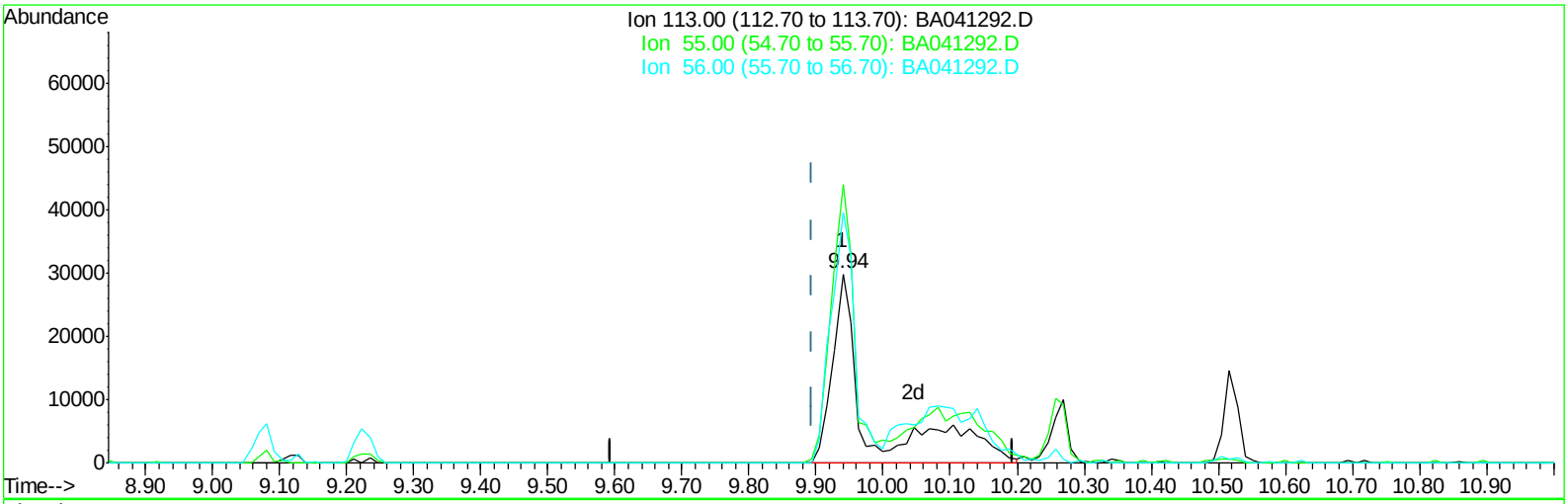
response 66585

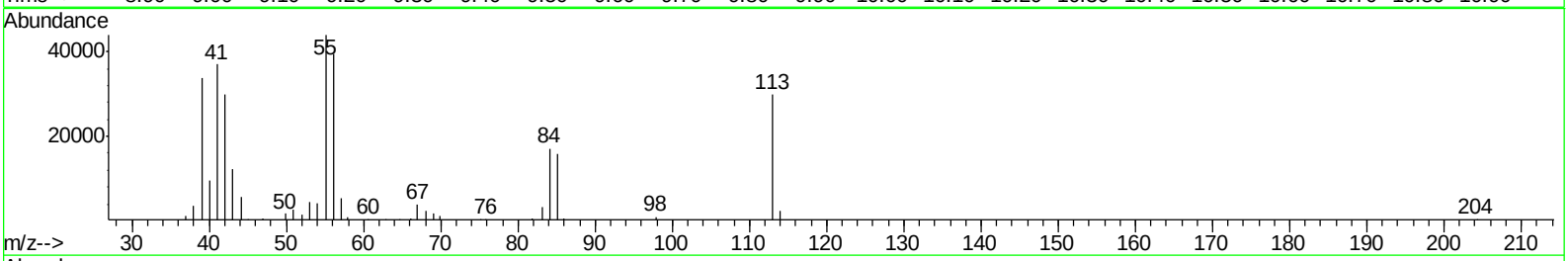
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	147.36
56.00	107.70	132.49#
0.00	0.00	0.00

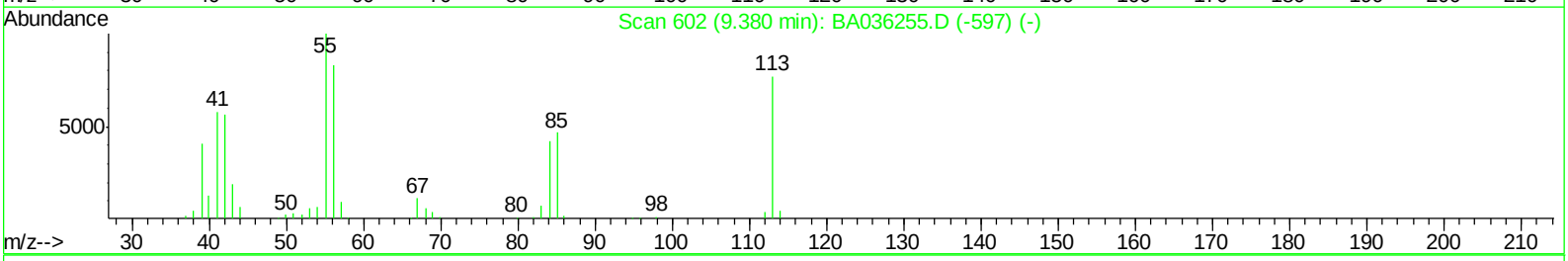
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:09:38 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041292.D

(30) Caprolactam

9.940min (+0.045) 43.13ng/ul m

response 110871

Ion	Exp%	Act%
113.00	100	100
55.00	130.00	147.36
56.00	107.70	132.49#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:10:19 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	170460	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	542376	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.66	164	369826	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.75	188	705586	20.00	ng/ul	0.00
73) Chrysene-d12	21.29	240	813655	20.00	ng/ul	-0.02
81) Perylene-d12	25.09	264	606670	20.00	ng/ul	-0.08
System Monitoring Compounds						
3) Phenol-d5	6.05	99	430072	32.97	ng/ul	0.01
5) Bis-(2-Chloroethyl)ether-d	6.16	67	294586	40.76	ng/ul	0.01
7) 2-Chlorophenol-d4	6.29	132	368475	34.13	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	291706m	33.02	ng/ul	0.02
17) Nitrobenzene-d5	7.69	128	200965	37.21	ng/ul	0.00
20) 2-Nitrophenol-d4	8.32	143	245994	39.74	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.79	165	468599	52.29	ng/ul	0.00
27) 4-Chloroaniline-d4	9.22	131	445118	38.68	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	1043198	43.29	ng/ul	0.02
44) Acenaphthylene-d8	12.33	160	1258073	38.55	ng/ul	0.02
49) 4-Nitrophenol-d4	12.98	143	205672	34.79	ng/ul	0.03
55) Fluorene-d10	13.75	176	823063	41.42	ng/ul	0.01
60) 4,6-Dinitro-2-methylphenol	13.93	200	309241	40.81	ng/ul	0.03
68) Anthracene-d10	15.88	188	1349536	38.26	ng/ul	0.02
74) Pyrene-d10	18.72	212	1446477	33.62	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.84	264	1494240	44.16	ng/ul	-0.06
Target Compounds						Qvalue
2) Benzaldehyde	5.92	77	157030	21.97	ng/ul	88
4) Phenol	6.08	94	475613	34.95	ng/ul#	51
6) Bis(2-Chloroethyl)ether	6.23	93	359181	34.69	ng/ul#	86
8) 2-Chlorophenol	6.31	128	408738	37.28	ng/ul#	83
9) 2-Methylphenol	7.15	108	325289	35.94	ng/ul	92
10) 2,2'-oxybis(1-Chloropropan	7.20	45	565586	39.13	ng/ul#	94
12) Acetophenone	7.42	105	550987	42.19	ng/ul#	78
13) N-Nitroso-di-n-propylamine	7.46	70	299267	44.99	ng/ul#	76
14) 4-Methylphenol	7.46	108	345323	36.78	ng/ul	94
15) Hexachloroethane	7.61	117	238299	42.80	ng/ul#	72
18) Nitrobenzene	7.73	77	469930	46.80	ng/ul#	84
19) Isophorone	8.21	82	900548	53.07	ng/ul#	97
21) 2-Nitrophenol	8.34	139	265504	41.62	ng/ul#	67
22) 2,4-Dimethylphenol	8.46	107	421381	46.36	ng/ul	85
23) Bis(2-Chloroethoxy)methane	8.64	93	451940	39.29	ng/ul#	98
25) 2,4-Dichlorophenol	8.81	162	464096	51.20	ng/ul	97
26) Naphthalene	9.12	128	1000553	37.61	ng/ul	97
28) 4-Chloroaniline	9.25	127	288646	27.00	ng/ul	93
29) Hexachlorobutadiene	9.40	225	339636	63.94	ng/ul	96
30) Caprolactam	9.94	113	110871m	43.13	ng/ul	
31) 4-Chloro-3-methylphenol	10.27	107	371776	48.32	ng/ul	96
32) 2-Methylnaphthalene	10.52	142	768730	44.57	ng/ul	91
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	608356	53.09	ng/ul	97
35) Hexachlorocyclopentadiene	10.87	237	418730	65.94	ng/ul	98

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041292.D
Acq On : 19 Oct 2008 16:35
Operator : QM
Sample : ICC0040BA0051
Misc : SSTD04051
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 11:10:19 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

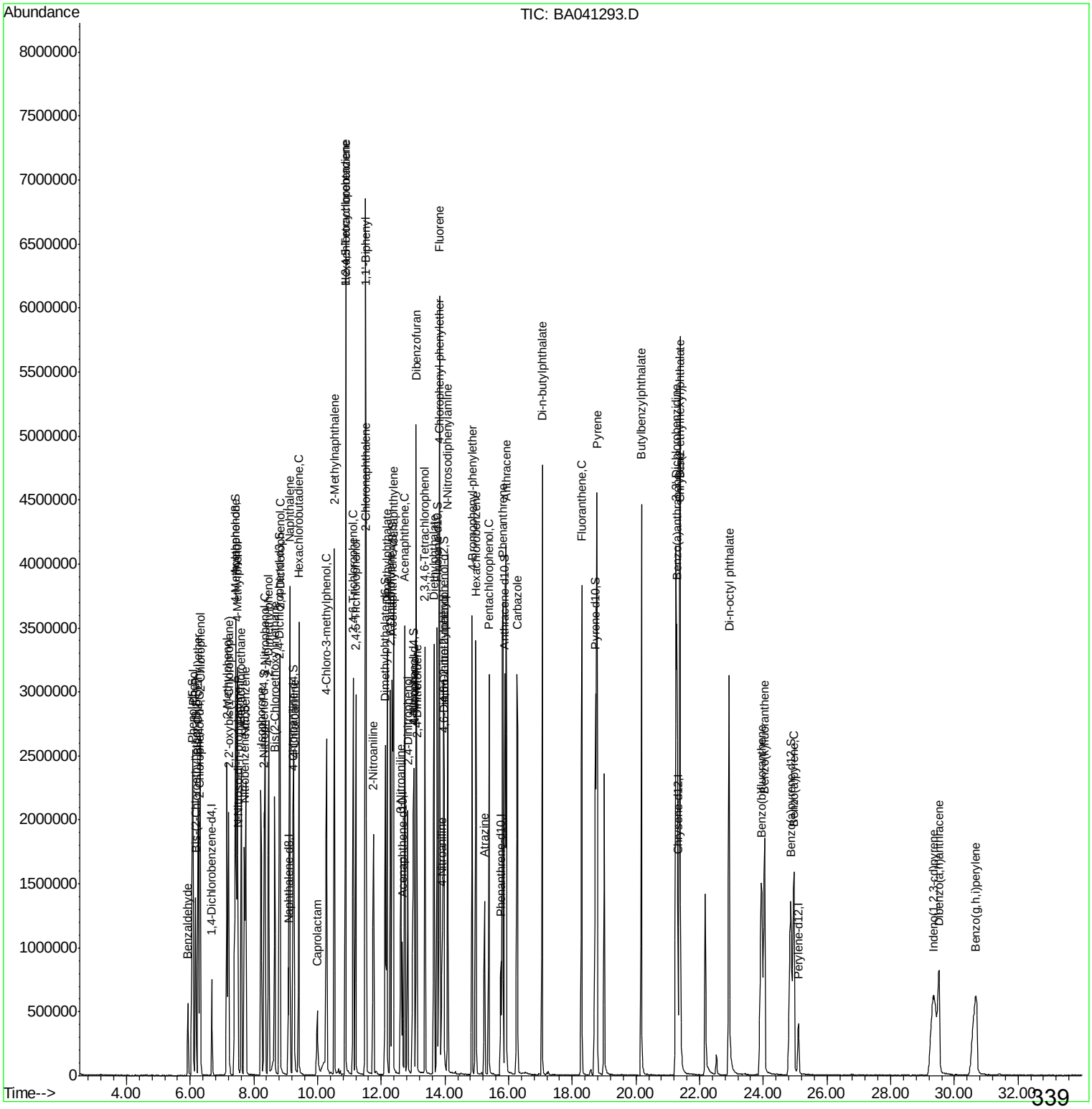
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	373033	49.25 ng/ul	93
37) 2,4,5-Trichlorophenol	11.18	196	377814	46.46 ng/ul	98
38) 1,1'-Biphenyl	11.50	154	1102031	42.81 ng/ul#	95
39) 2-Chloronaphthalene	11.51	162	973022	44.70 ng/ul	96
40) 2-Nitroaniline	11.74	65	303198	49.10 ng/ul#	69
42) Dimethylphthalate	12.17	163	1114648	44.52 ng/ul	98
43) 2,6-Dinitrotoluene	12.27	165	290613	44.14 ng/ul#	88
45) Acenaphthylene	12.37	152	1259837	39.07 ng/ul	98
46) 3-Nitroaniline	12.60	138	227023	35.56 ng/ul	90
47) Acenaphthene	12.73	153	803518	41.29 ng/ul	92
48) 2,4-Dinitrophenol	12.82	184	239649	61.28 ng/ul#	88
50) 4-Nitrophenol	13.00	109	262115	68.22 ng/ul#	61
51) Dibenzofuran	13.10	168	1276098	44.59 ng/ul	96
52) 2,4-Dinitrotoluene	13.10	165	386544	46.83 ng/ul#	56
53) 2,3,4,6-Tetrachlorophenol	13.37	232	358398	55.28 ng/ul#	97
54) Diethylphthalate	13.64	149	1105938	44.22 ng/ul	99
56) Fluorene	13.80	166	986921	42.35 ng/ul	99
57) 4-Chlorophenyl-phenylether	13.83	204	529192	46.51 ng/ul	92
58) 4-Nitroaniline	13.89	138	153926	25.05 ng/ul#	54
61) 4,6-Dinitro-2-methylphenol	13.94	198	311490	42.35 ng/ul	100
62) N-Nitrosodiphenylamine	14.09	169	831190	35.08 ng/ul	95
63) 4-Bromophenyl-phenylether	14.84	248	355271	41.40 ng/ul	95
64) Hexachlorobenzene	14.96	284	409380	40.86 ng/ul	95
65) Atrazine	15.23	200	152125	20.68 ng/ul	93
66) Pentachlorophenol	15.37	266	323512	54.65 ng/ul	97
67) Phenanthrene	15.80	178	1478723	34.48 ng/ul	99
69) Anthracene	15.91	178	1453674	34.88 ng/ul	97
70) Carbazole	16.26	167	1358063	36.78 ng/ul	97
71) Di-n-butylphthalate	17.05	149	1907917	34.27 ng/ul#	97
72) Fluoranthene	18.29	202	1712421	38.48 ng/ul#	88
75) Pyrene	18.76	202	1901140	34.87 ng/ul#	88
76) Butylbenzylphthalate	20.16	149	928738	32.60 ng/ul	99
77) 3,3'-Dichlorobenzidine	21.24	252	624073	39.51 ng/ul	95
78) Benzo(a)anthracene	21.27	228	1839396	34.82 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.39	149	907668	28.14 ng/ul	100
80) Chrysene	21.35	228	1480546	31.84 ng/ul	96
82) Di-n-octyl phthalate	22.90	149	1691252	34.30 ng/ul	100
83) Benzo(b)fluoranthene	23.92	252	1809764	44.61 ng/ul#	90
84) Benzo(k)fluoranthene	24.00	252	1421675	35.73 ng/ul#	96
86) Benzo(a)pyrene	24.92	252	1503386	40.28 ng/ul#	96
87) Indeno(1,2,3-cd)pyrene	29.32	276	1493833	46.47 ng/ul#	65
88) Dibenzo(a,h)anthracene	29.44	278	1028043	33.33 ng/ul#	92
89) Benzo(g,h,i)perylene	30.62	276	1488326	42.90 ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

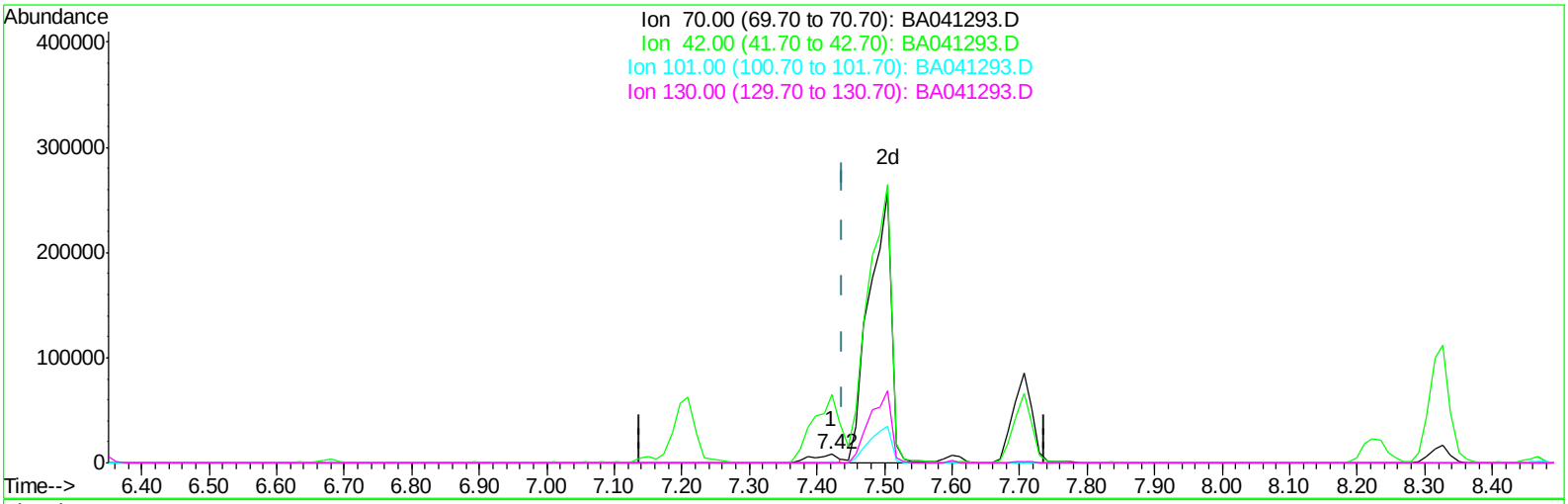
Quant Time: Oct 20 11:12:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

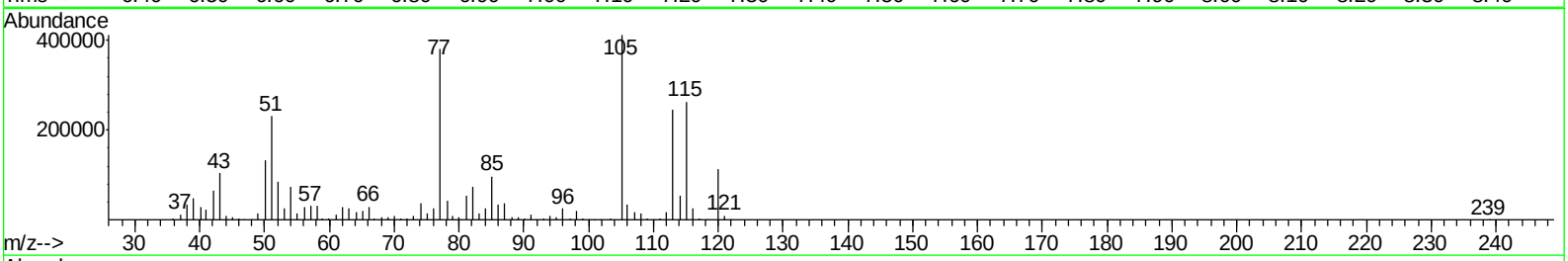


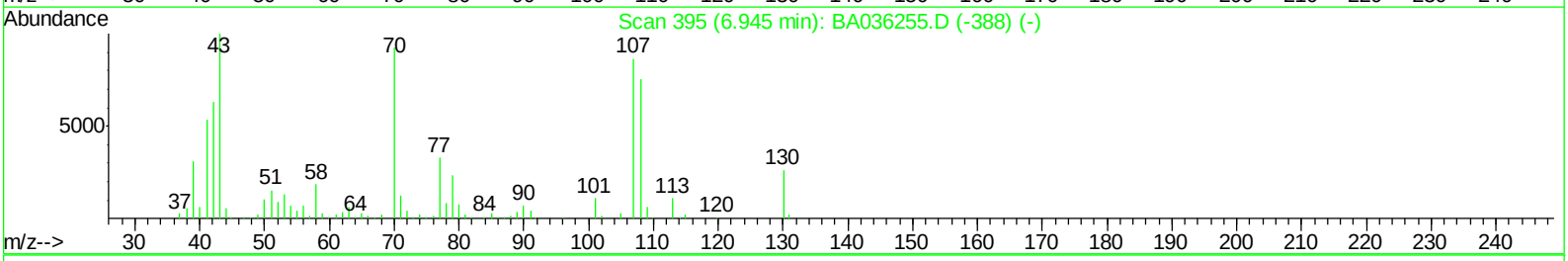
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(13) N-Nitroso-di-n-propylamine (P)

7.422min (-0.016) 3.04ng/ul

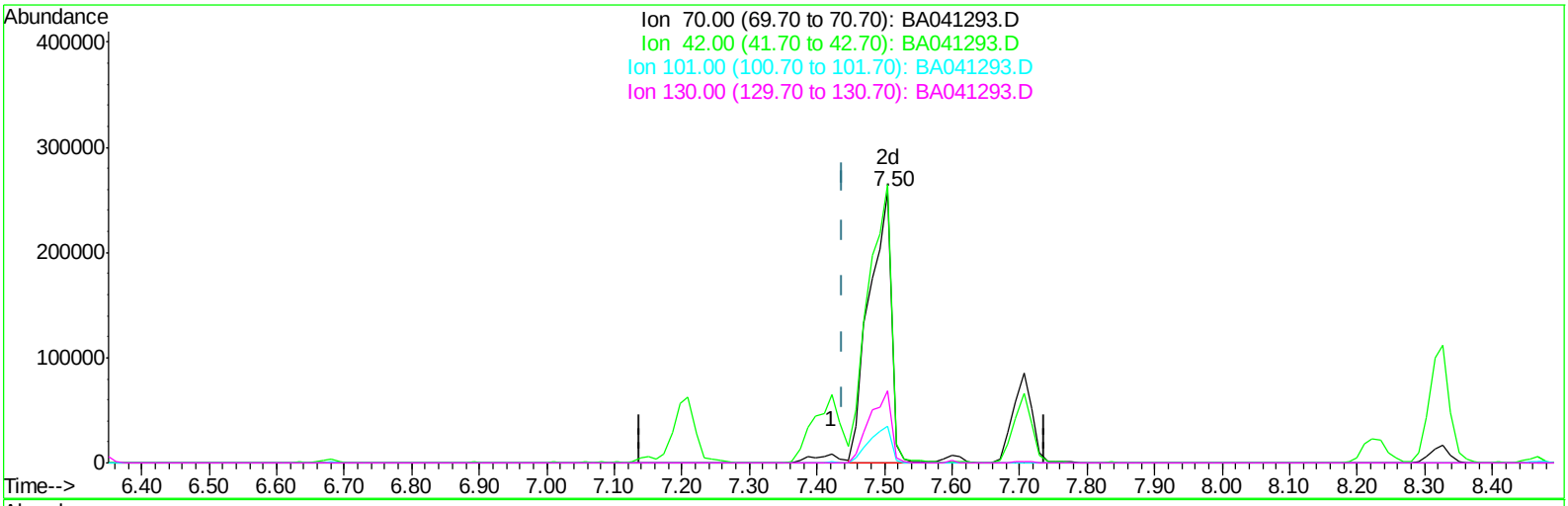
response 21538

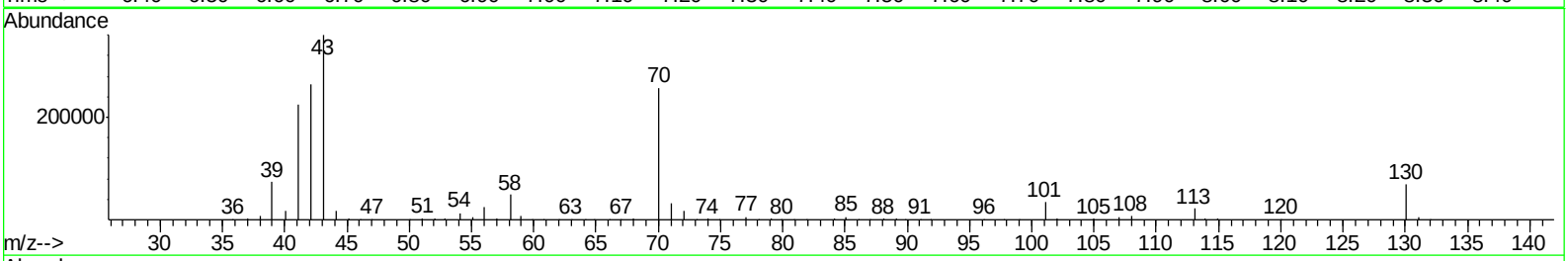
Ion	Exp%	Act%
70.00	100	100
42.00	68.40	816.69#
101.00	11.70	9.28#
130.00	28.50	0.00#

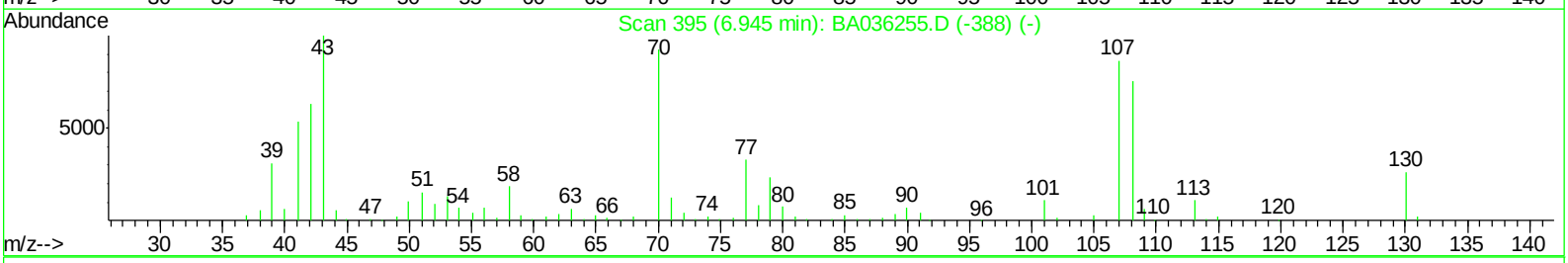
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(13) N-Nitroso-di-n-propylamine (P)

7.505min (+0.067) 82.76ng/ul m

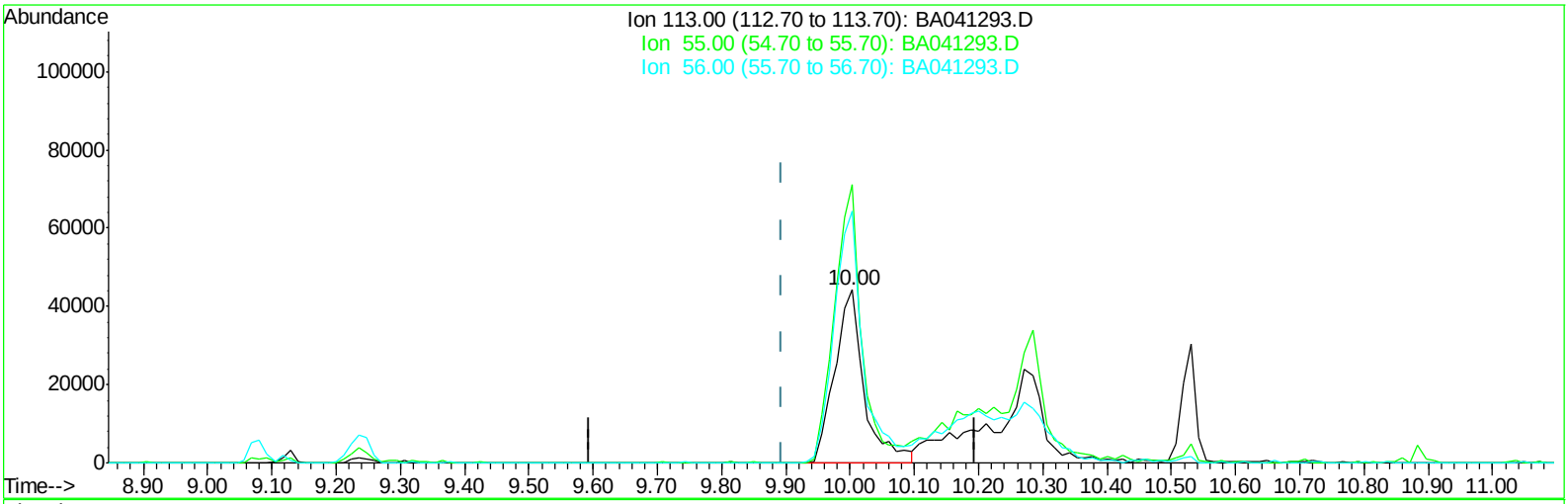
response 586990

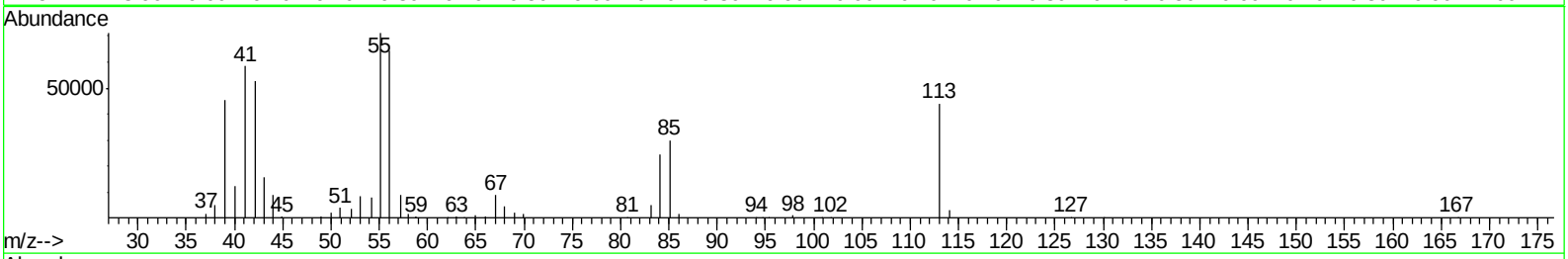
Ion	Exp%	Act%
70.00	100	100
42.00	68.40	102.76#
101.00	11.70	13.50
130.00	28.50	26.53

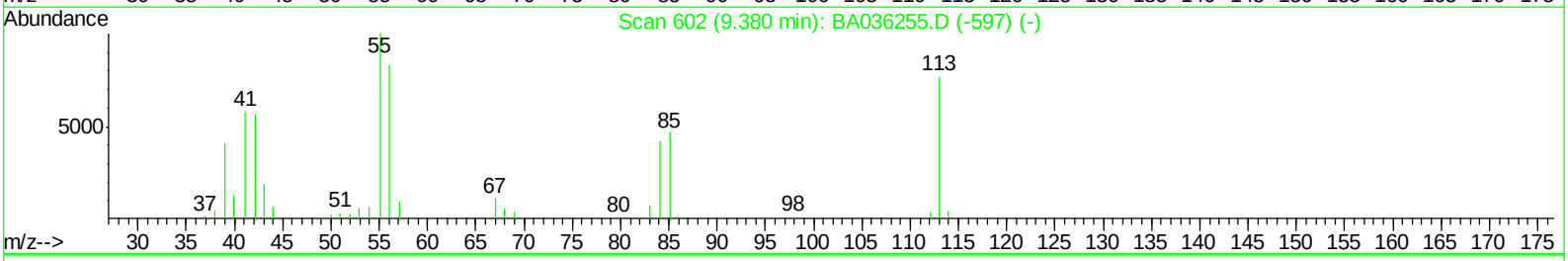
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(30) Caprolactam

10.002min (+0.107) 54.32ng/ul

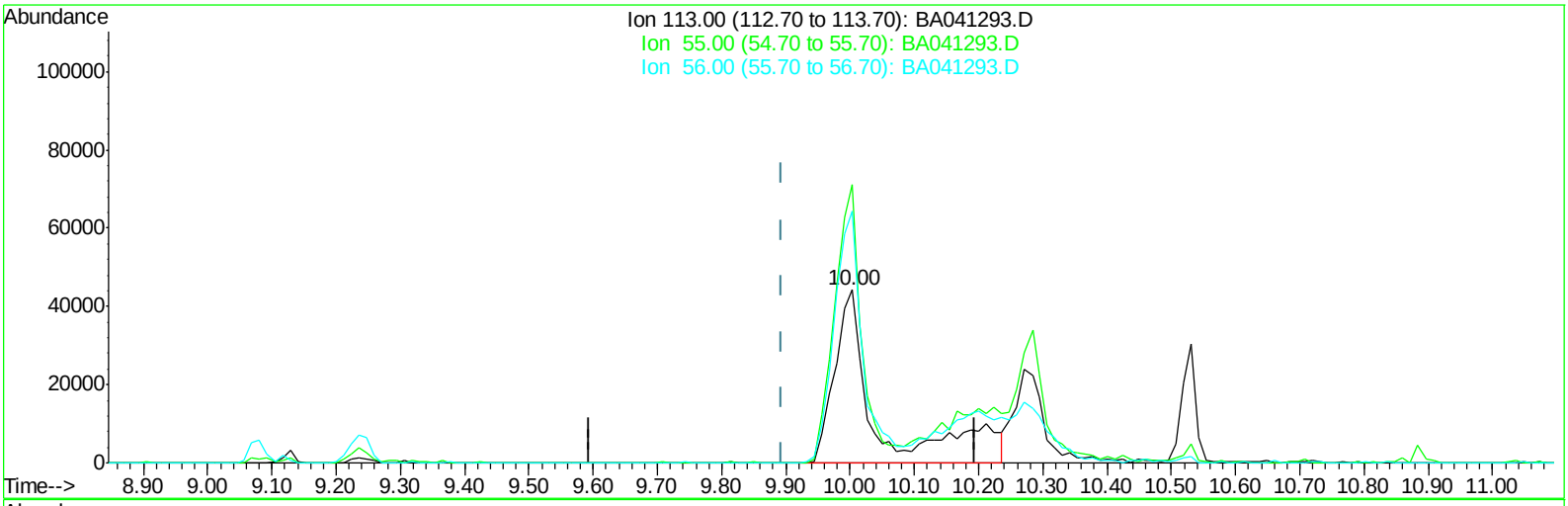
response 140635

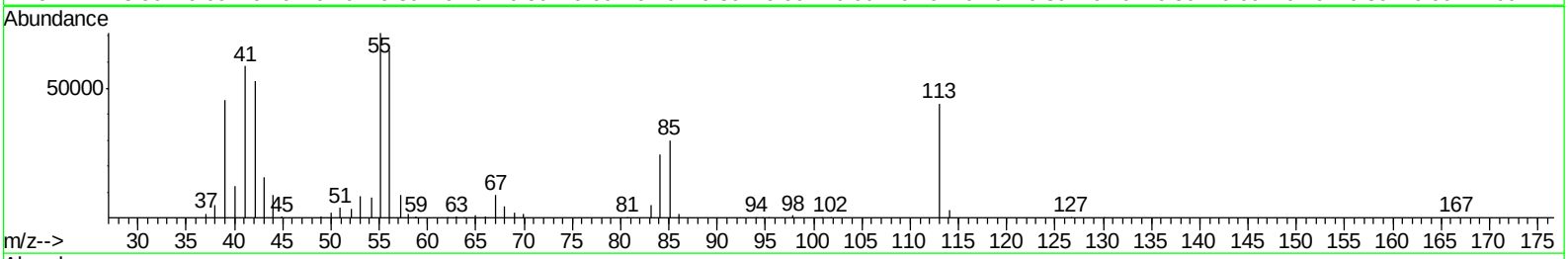
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	161.03#
56.00	107.70	146.02#
0.00	0.00	0.00

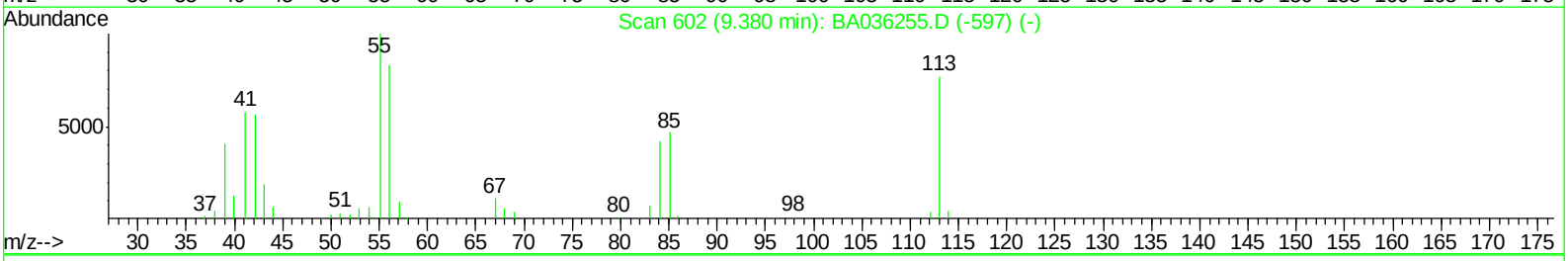
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(30) Caprolactam

10.002min (+0.107) 77.59ng/ul m

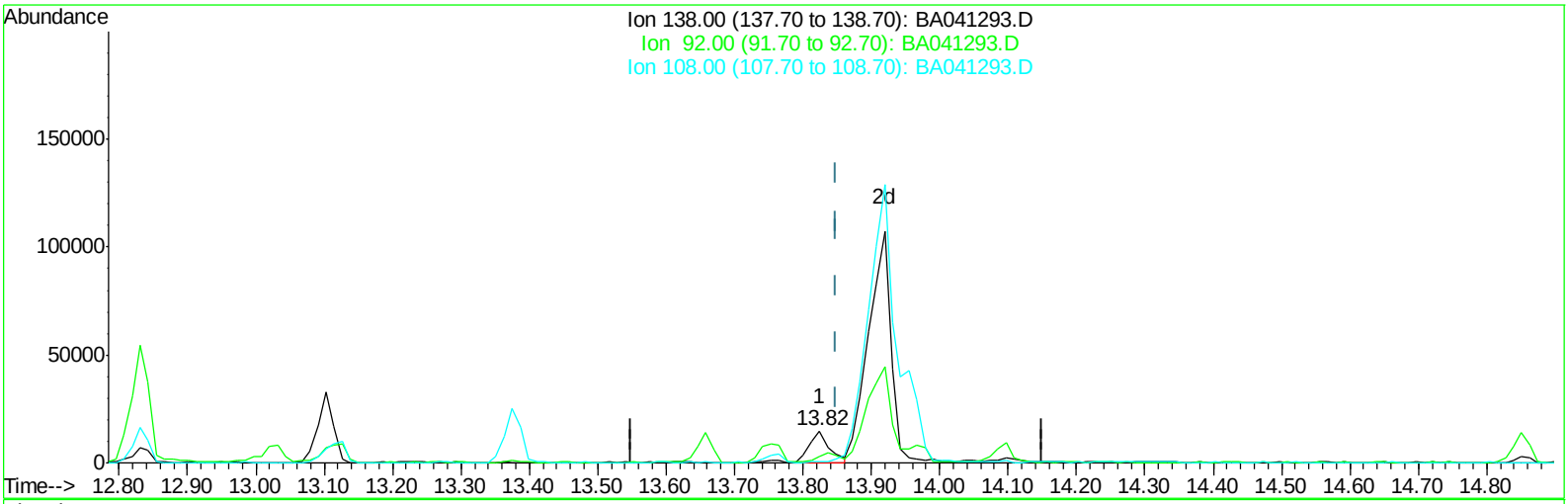
response 200900

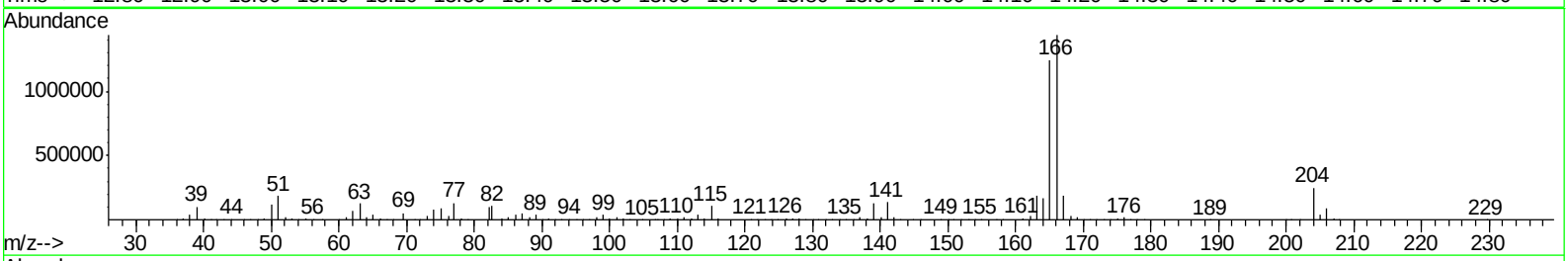
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	161.03#
56.00	107.70	146.02#
0.00	0.00	0.00

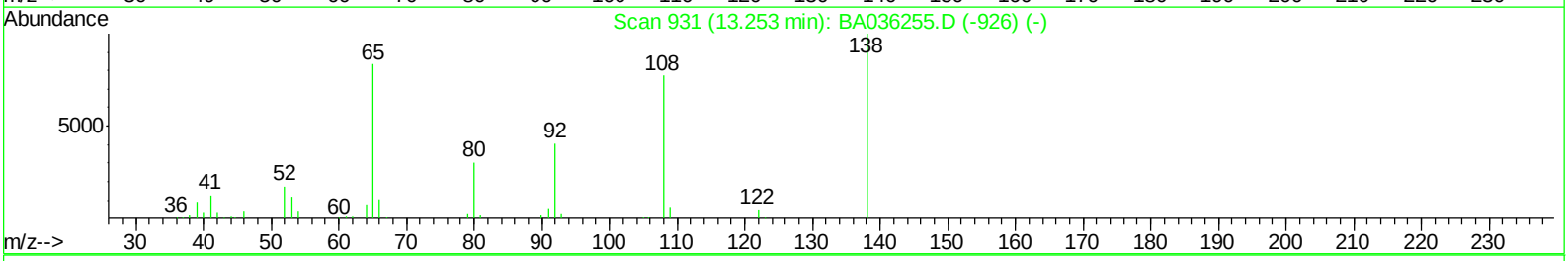
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(58) 4-Nitroaniline

13.824min (-0.026) 4.68ng/ul

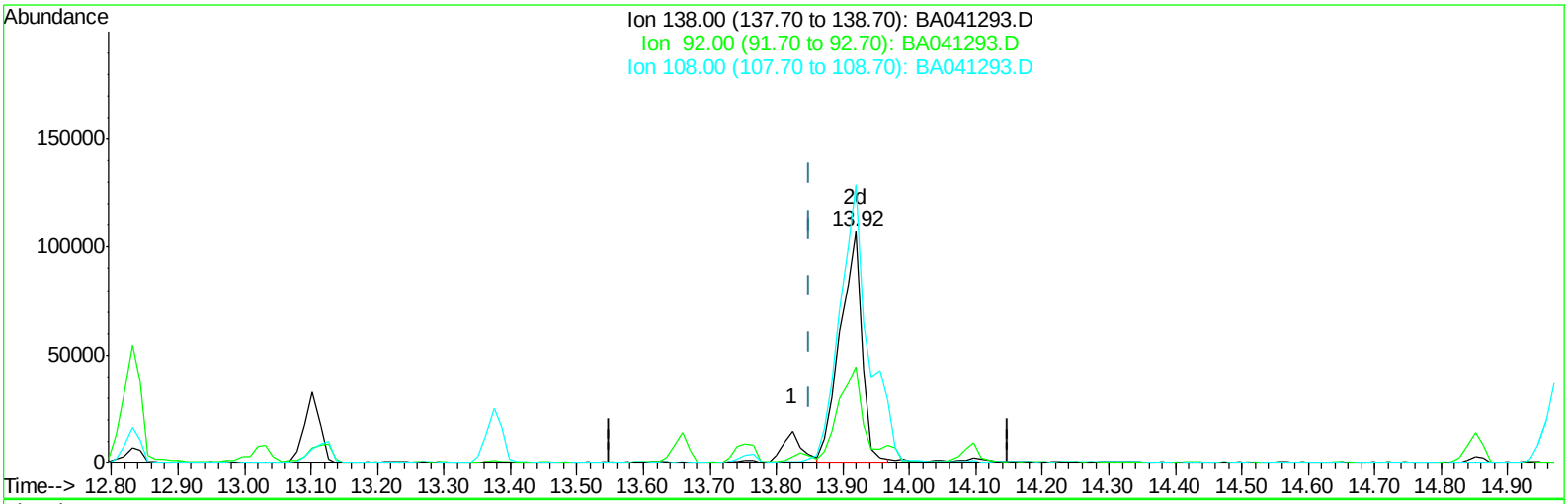
response 30133

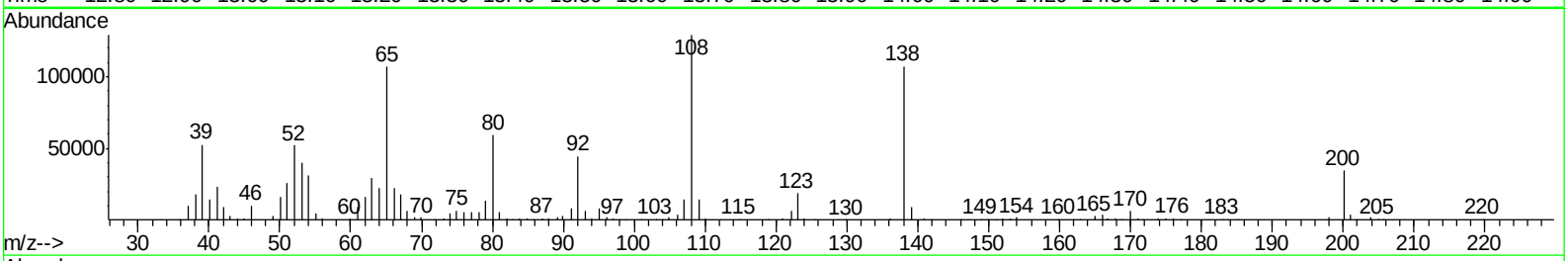
Ion	Exp%	Act%
138.00	100	100
92.00	41.80	18.84#
108.00	77.20	5.81#
0.00	0.00	0.00

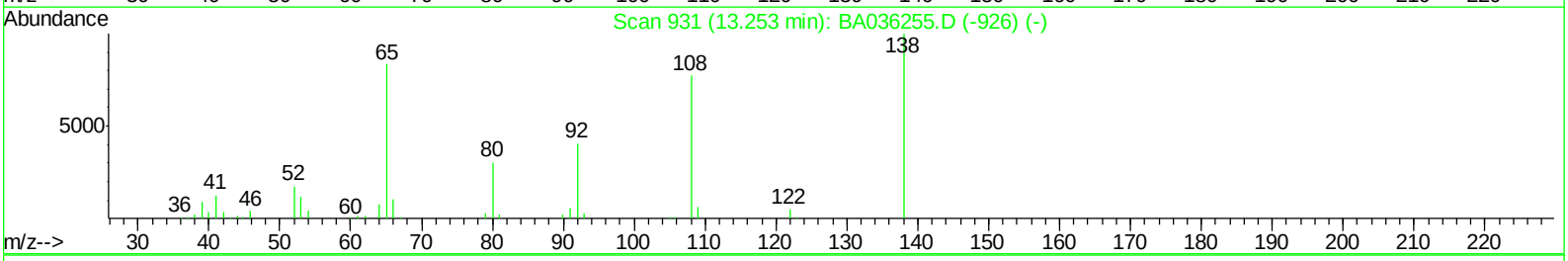
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:11:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041293.D

(58) 4-Nitroaniline

13.919min (+0.069) 38.37ng/ul m

response 246856

Ion	Exp%	Act%
138.00	100	100
92.00	41.80	41.43
108.00	77.20	120.27#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:12:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	181774	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	546257	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.67	164	387173	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.76	188	699390	20.00	ng/ul	0.02
73) Chrysene-d12	21.31	240	772720	20.00	ng/ul	0.00
81) Perylene-d12	25.11	264	508602	20.00	ng/ul	-0.06
System Monitoring Compounds						
3) Phenol-d5	6.07	99	955889	68.72	ng/ul	0.02
5) Bis-(2-Chloroethyl)ether-d	6.17	67	628188	81.51	ng/ul	0.03
7) 2-Chlorophenol-d4	6.29	132	775593	67.37	ng/ul	0.00
11) 4-Methylphenol-d8	7.42	113	640767	68.02	ng/ul	0.04
17) Nitrobenzene-d5	7.71	128	409908	75.37	ng/ul	0.03
20) 2-Nitrophenol-d4	8.33	143	479344	76.89	ng/ul	0.02
24) 2,4-Dichlorophenol-d3	8.80	165	936567	103.76	ng/ul	0.02
27) 4-Chloroaniline-d4	9.23	131	972498	83.90	ng/ul	0.02
41) Dimethylphthalate-d6	12.13	166	2104696	83.43	ng/ul	0.04
44) Acenaphthylene-d8	12.35	160	2641227	77.31	ng/ul	0.03
49) 4-Nitrophenol-d4	13.02	143	441268	71.30	ng/ul	0.07
55) Fluorene-d10	13.75	176	1739262	83.61	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.95	200	595243	79.24	ng/ul	0.05
68) Anthracene-d10	15.88	188	2576185	73.68	ng/ul	0.03
74) Pyrene-d10	18.73	212	2917881	71.41	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.86	264	2895395	102.07	ng/ul	-0.04
Target Compounds						Qvalue
2) Benzaldehyde	5.93	77	160380	21.04	ng/ul	87
4) Phenol	6.09	94	1025846	70.70	ng/ul#	48
6) Bis(2-Chloroethyl)ether	6.24	93	837810	75.87	ng/ul	93
8) 2-Chlorophenol	6.32	128	886628	75.84	ng/ul#	81
9) 2-Methylphenol	7.15	108	719954	74.60	ng/ul	96
10) 2,2'-oxybis(1-Chloropropan	7.21	45	1176533	76.33	ng/ul	97
12) Acetophenone	7.43	105	1199546	86.13	ng/ul#	85
13) N-Nitroso-di-n-propylamine	7.50	70	586990m	82.76	ng/ul	
14) 4-Methylphenol	7.48	108	764718	76.38	ng/ul	99
15) Hexachloroethane	7.60	117	458905	77.30	ng/ul	93
18) Nitrobenzene	7.74	77	913610	90.34	ng/ul#	89
19) Isophorone	8.22	82	1811798	106.01	ng/ul#	97
21) 2-Nitrophenol	8.35	139	546898	85.12	ng/ul#	66
22) 2,4-Dimethylphenol	8.47	107	905073	98.86	ng/ul	88
23) Bis(2-Chloroethoxy)methane	8.66	93	1000558	86.37	ng/ul	98
25) 2,4-Dichlorophenol	8.82	162	931990	102.09	ng/ul	95
26) Naphthalene	9.13	128	2217646	82.76	ng/ul	98
28) 4-Chloroaniline	9.26	127	611260	56.76	ng/ul	98
29) Hexachlorobutadiene	9.41	225	665542	124.40	ng/ul	96
30) Caprolactam	10.00	113	200900m	77.59	ng/ul	
31) 4-Chloro-3-methylphenol	10.28	107	854613	110.30	ng/ul	88
32) 2-Methylnaphthalene	10.53	142	1712841	98.59	ng/ul	98
34) 1,2,4,5-Tetrachlorobenzene	10.88	216	1194591	99.58	ng/ul	97
35) Hexachlorocyclopentadiene	10.88	237	871745	131.13	ng/ul	96

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041293.D
Acq On : 19 Oct 2008 17:16
Operator : QM
Sample : ICC0080BA0052
Misc : SSTD08052
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 11:12:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	746703	94.17 ng/ul	99
37) 2,4,5-Trichlorophenol	11.20	196	769438	90.38 ng/ul	84
38) 1,1'-Biphenyl	11.51	154	2361388	87.63 ng/ul#	96
39) 2-Chloronaphthalene	11.52	162	1951368	85.64 ng/ul	98
40) 2-Nitroaniline	11.76	65	591272	91.47 ng/ul#	68
42) Dimethylphthalate	12.18	163	2201258	83.98 ng/ul	99
43) 2,6-Dinitrotoluene	12.29	165	594483	86.25 ng/ul#	79
45) Acenaphthylene	12.38	152	2598091	76.95 ng/ul	95
46) 3-Nitroaniline	12.62	138	466167	69.74 ng/ul#	88
47) Acenaphthene	12.74	153	1643956	80.70 ng/ul	93
48) 2,4-Dinitrophenol	12.83	184	507923	124.06 ng/ul#	87
50) 4-Nitrophenol	13.03	109	510852	127.00 ng/ul#	70
51) Dibenzofuran	13.10	168	2546333	85.00 ng/ul	98
52) 2,4-Dinitrotoluene	13.13	165	747975	86.57 ng/ul#	84
53) 2,3,4,6-Tetrachlorophenol	13.37	232	733707	108.10 ng/ul#	87
54) Diethylphthalate	13.66	149	2153825	82.27 ng/ul	99
56) Fluorene	13.82	166	2218887	90.95 ng/ul	97
57) 4-Chlorophenyl-phenylether	13.84	204	1094555	91.89 ng/ul	96
58) 4-Nitroaniline	13.92	138	246856m	38.37 ng/ul	
61) 4,6-Dinitro-2-methylphenol	13.98	198	616257	84.54 ng/ul#	88
62) N-Nitrosodiphenylamine	14.10	169	1699289	72.35 ng/ul	96
63) 4-Bromophenyl-phenylether	14.85	248	721931	84.86 ng/ul	96
64) Hexachlorobenzene	14.97	284	833644	83.94 ng/ul	93
65) Atrazine	15.24	200	304443	41.75 ng/ul	96
66) Pentachlorophenol	15.38	266	651372	111.02 ng/ul	97
67) Phenanthrene	15.82	178	3008945	70.79 ng/ul	97
69) Anthracene	15.93	178	2920902	70.71 ng/ul	97
70) Carbazole	16.27	167	2815202	76.92 ng/ul	97
71) Di-n-butylphthalate	17.06	149	3858684	69.93 ng/ul#	96
72) Fluoranthene	18.30	202	3602243	81.67 ng/ul#	93
75) Pyrene	18.78	202	3722083	71.89 ng/ul#	91
76) Butylbenzylphthalate	20.17	149	1860972	68.79 ng/ul#	95
77) 3,3'-Dichlorobenzidine	21.25	252	1161321	77.41 ng/ul	88
78) Benzo(a)anthracene	21.29	228	3700799	73.78 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.39	149	2010034	65.63 ng/ul#	97
80) Chrysene	21.37	228	2724495	61.69 ng/ul	99
82) Di-n-octyl phthalate	22.93	149	3686742	89.18 ng/ul	100
83) Benzo(b)fluoranthene	23.94	252	3507664	103.13 ng/ul#	92
84) Benzo(k)fluoranthene	24.04	252	2345473	70.31 ng/ul#	96
86) Benzo(a)pyrene	24.97	252	2617307	83.64 ng/ul#	96
87) Indeno(1,2,3-cd)pyrene	29.33	276	2859619	106.11 ng/ul#	67
88) Dibenzo(a,h)anthracene	29.52	278	1892347	73.17 ng/ul#	90
89) Benzo(g,h,i)perylene	30.65	276	2643252	90.88 ng/ul#	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 14:01

Lab File ID: BA041289.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) ICC0020BA004 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.625	0.010	15.8	40.0
Phenol	1.314	1.304	0.800	-0.7	25.0
Bis(2-Chloroethyl)ether	1.052	1.014	0.700	-3.6	25.0
2-Chlorophenol	1.164	1.162	0.800	-0.2	25.0
2-Methylphenol	0.911	0.882	0.700	-3.2	25.0
2,2-oxybis(1-Chloropropane)	1.559	1.561	0.010	0.1	40.0
Acetophenone	1.607	1.660	0.010	3.3	40.0
4-Methylphenol	0.954	0.867	0.600	-9.1	25.0
N-Nitroso-di-n-propylamine	0.819	0.801	0.500	-2.2	25.0
Hexachloroethane	0.642	0.641	0.300	-0.1	25.0
Nitrobenzene	0.416	0.406	0.200	-2.5	25.0
Isophorone	0.802	0.832	0.400	3.7	25.0
2-Nitrophenol	0.234	0.226	0.100	-3.4	25.0
2,4-Dimethylphenol	0.386	0.380	0.200	-1.7	25.0
Bis(2-Chloroethoxy)methane	0.395	0.384	0.300	-2.9	25.0
2,4-Dichlorophenol	0.409	0.401	0.200	-1.9	25.0
Naphthalene	0.905	0.874	0.700	-3.4	25.0
4-Chloroaniline	0.264	0.269	0.010	2.0	40.0
Hexachlorobutadiene	0.309	0.310	0.010	0.4	40.0
Caprolactam	0.099	0.107	0.010	8.5	40.0
4-Chloro-3-methylphenol	0.353	0.331	0.200	-6.1	25.0
2-Methylnaphthalene	0.709	0.679	0.400	-4.2	25.0
Hexachlorocyclopentadiene	0.519	0.522	0.010	0.6	40.0
2,4,6-Trichlorophenol	0.451	0.420	0.200	-6.8	25.0
2,4,5-Trichlorophenol	0.466	0.443	0.200	-5.0	25.0
1,1-Biphenyl	1.407	1.310	0.010	-6.9	40.0
2-Chloronaphthalene	1.211	1.146	0.800	-5.4	25.0
2-Nitroaniline	0.376	0.357	0.010	-5.0	40.0
Dimethylphthalate	1.452	1.429	0.010	-1.6	40.0
2,6-Dinitrotoluene	0.367	0.359	0.200	-2.0	25.0
Acenaphthylene	1.591	1.512	0.900	-5.0	25.0
3-Nitroaniline	0.289	0.275	0.010	-4.8	40.0
Acenaphthene	1.048	1.020	0.900	-2.7	25.0
2,4-Dinitrophenol	0.301	0.279	0.010	-7.3	40.0
4-Nitrophenol	0.326	0.302	0.010	-7.3	40.0
Dibenzofuran	1.562	1.491	0.800	-4.5	25.0
2,4-Dinitrotoluene	0.480	0.448	0.200	-6.8	25.0
Diethylphthalate	1.411	1.385	0.010	-1.8	40.0
Fluorene	1.290	1.214	0.900	-5.9	25.0
4-Chlorophenyl-phenylether	0.686	0.669	0.400	-2.5	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 14:01

Lab File ID: BA041289.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) ICC0020BA004 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.245	0.010	8.9	40.0
4,6-Dinitro-2-methylphenol	0.213	0.203	0.010	-4.8	40.0
N-Nitrosodiphenylamine[1]	0.571	0.572	0.010	0.2	40.0
1,2,4,5-Tetrachlorobenzene	0.748	0.761	0.010	1.8	40.0
4-Bromophenyl-phenylether	0.246	0.241	0.100	-2.1	25.0
Hexachlorobenzene	0.287	0.280	0.100	-2.3	25.0
Atrazine	0.101	0.098	0.010	-3.1	40.0
Pentachlorophenol	0.219	0.213	0.050	-2.6	25.0
Phenanthrene	1.020	1.002	0.700	-1.8	25.0
Anthracene	1.027	0.987	0.700	-3.9	25.0
Carbazole	0.929	0.889	0.010	-4.3	40.0
Di-n-butylphthalate	1.330	1.281	0.010	-3.7	40.0
Fluoranthene	1.211	1.180	0.600	-2.6	25.0
Pyrene	1.110	1.038	0.600	-6.5	25.0
Butylbenzylphthalate	0.538	0.537	0.010	-0.1	40.0
3,3-Dichlorobenzidine	0.323	0.346	0.010	7.0	40.0
Benzo(a)anthracene	1.061	0.993	0.800	-6.4	25.0
Chrysene	0.901	0.880	0.700	-2.4	25.0
Bis(2-ethylhexyl)phthalate	0.563	0.506	0.010	-10.2	40.0
Di-n-octyl phthalate	1.273	1.263	0.010	-0.8	40.0
Benzo(b)fluoranthene	1.306	1.255	0.700	-3.9	25.0
Benzo(k)fluoranthene	1.111	1.084	0.700	-2.4	25.0
Benzo(a)pyrene	1.126	1.134	0.700	0.8	25.0
Indeno(1,2,3-cd)pyrene	1.055	1.033	0.500	-2.1	25.0
Dibenzo(a,h)anthracene	0.810	0.835	0.400	3.0	25.0
Benzo(g,h,i)perylene	1.068	1.062	0.500	-0.6	25.0
2,3,4,6-Tetrachlorophenol	0.441	0.435	0.100	-1.4	25.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 14:01

Lab File ID: BA041289.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) ICC0020BA004 Init. Calib. Time(s): 14:01 17:16

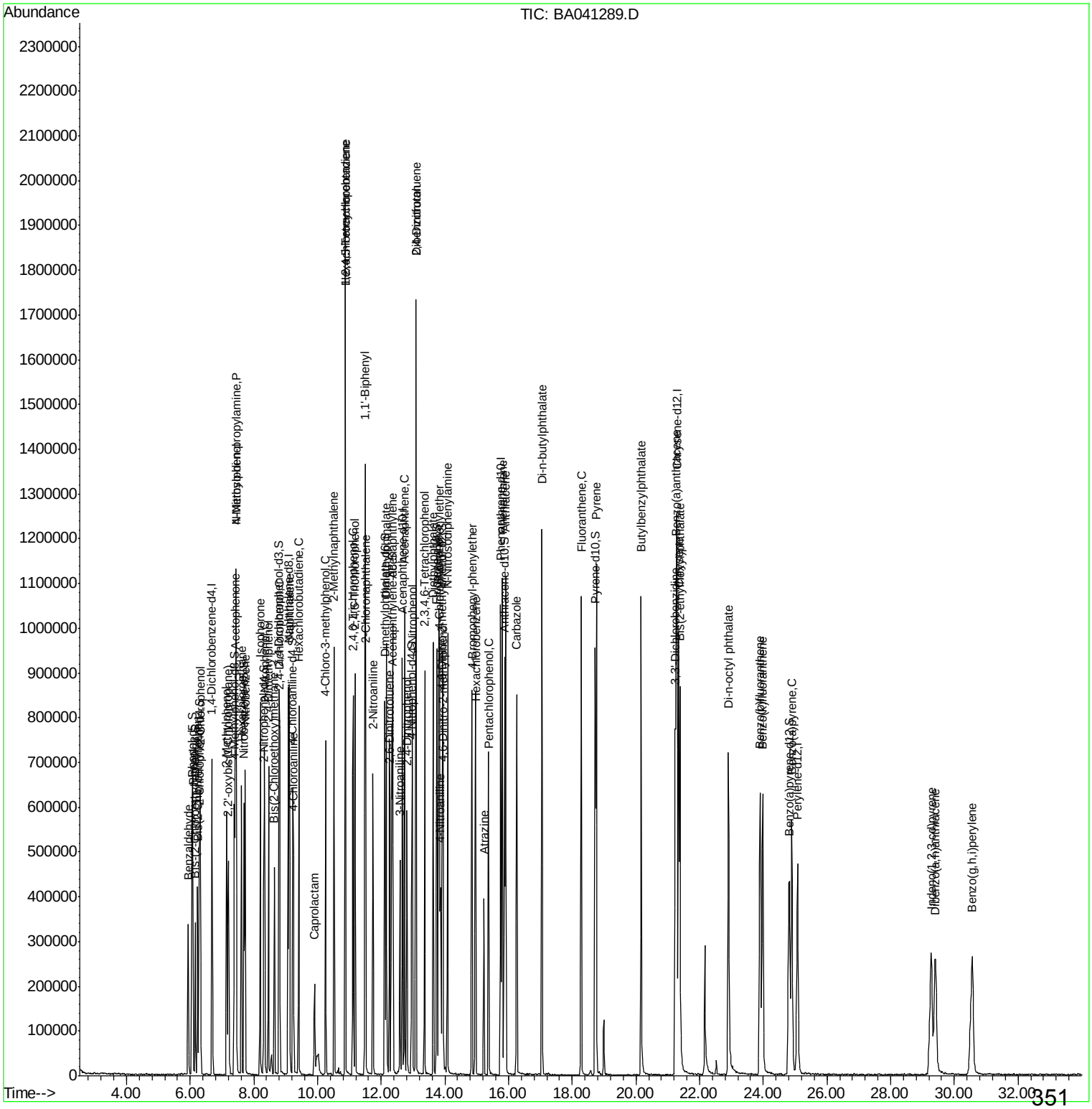
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.125	0.010	-7.1	25.0
Bis(2-Chloroethyl)ether-d8	0.821	0.801	0.010	-2.4	25.0
2-Chlorophenol-d4	1.029	1.052	0.010	2.3	25.0
4-Methylphenol-d8	0.822	0.820	0.010	-0.3	25.0
Nitrobenzene-d5	0.177	0.175	0.010	-1.0	25.0
2-Nitrophenol-d4	0.218	0.208	0.010	-4.4	25.0
2,4-Dichlorophenol-d3	0.403	0.392	0.010	-2.8	25.0
4-Chloroaniline-d4	0.399	0.383	0.010	-4.1	40.0
Dimethylphthalate-d6	1.332	1.313	0.010	-1.4	40.0
Acenaphthylene-d8	1.619	1.592	0.010	-1.7	25.0
4-Nitrophenol-d4	0.271	0.266	0.010	-1.8	40.0
Fluorene-d10	1.071	1.028	0.010	-4.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.196	0.010	-5.3	40.0
Anthracene-d10	0.957	0.948	0.010	-1.0	25.0
Pyrene-d10	0.874	0.844	0.010	-3.5	25.0
Benzo(a)pyrene-d12	1.089	1.016	0.010	-6.7	25.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

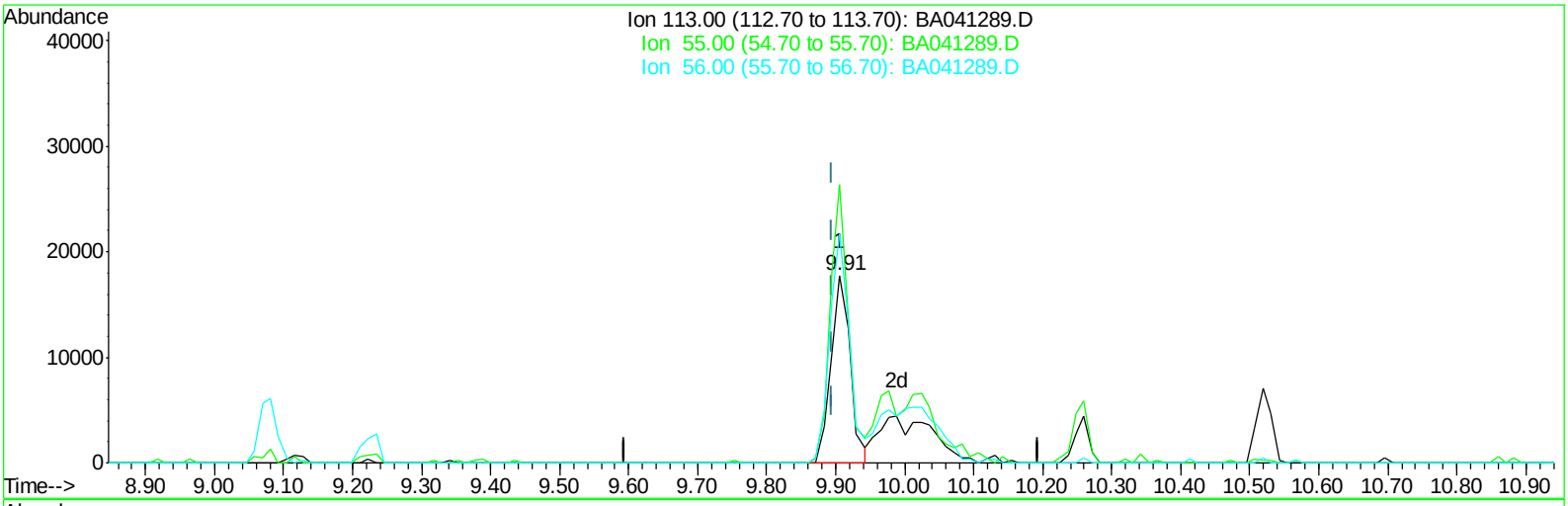
Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

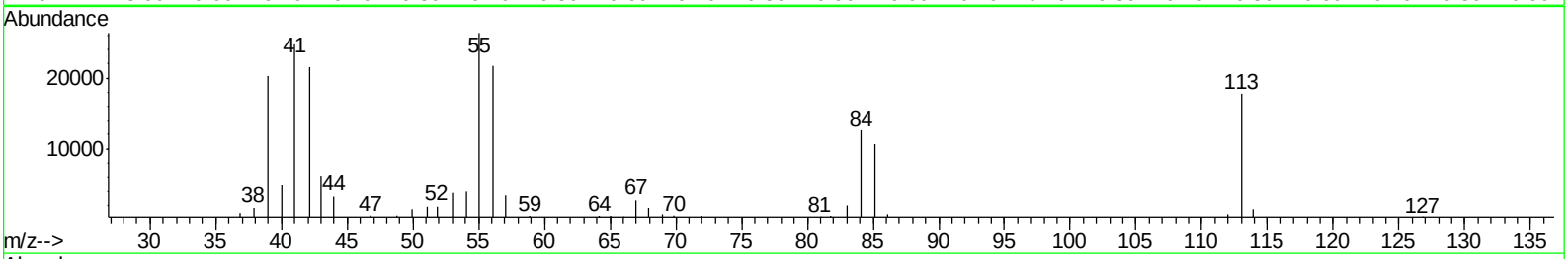


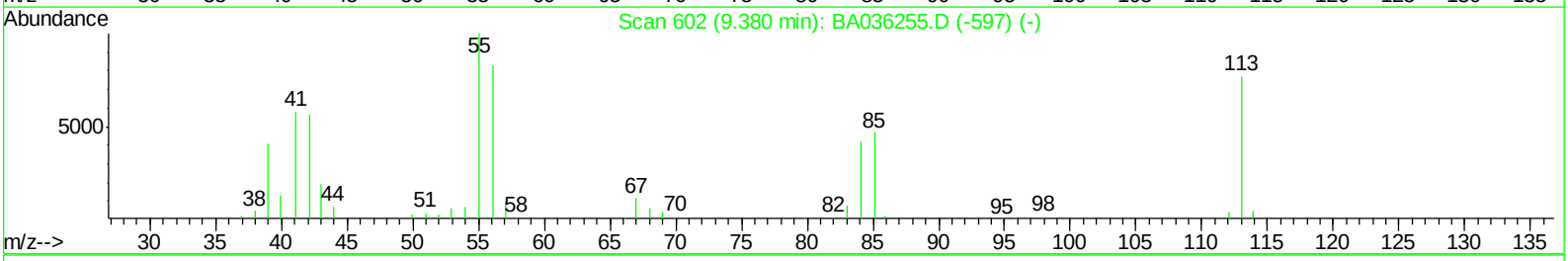
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(30) Caprolactam

9.906min (+0.011) 13.31ng/ul

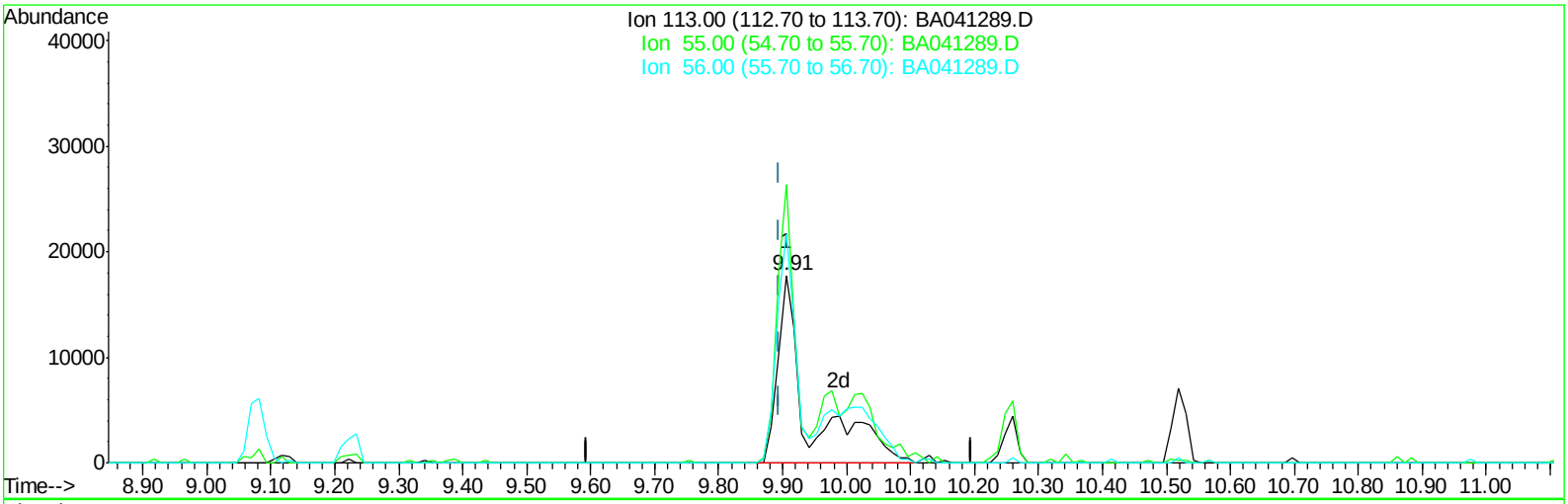
response 34423

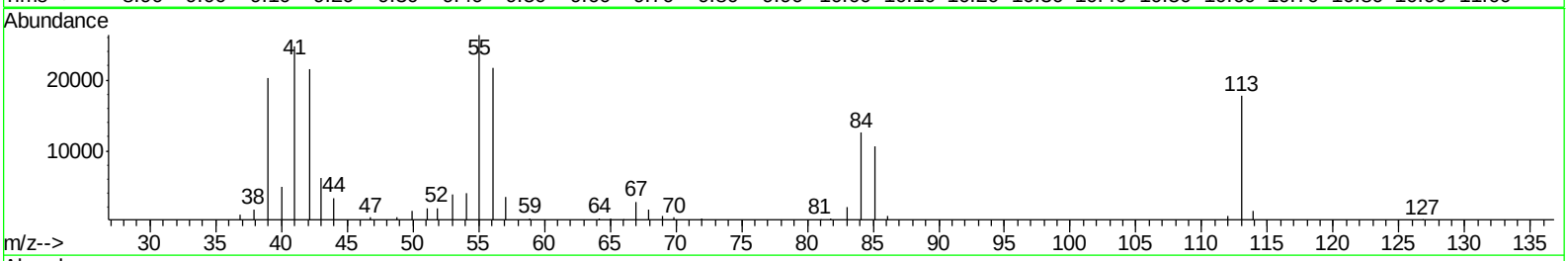
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	148.47
56.00	107.70	121.85
0.00	0.00	0.00

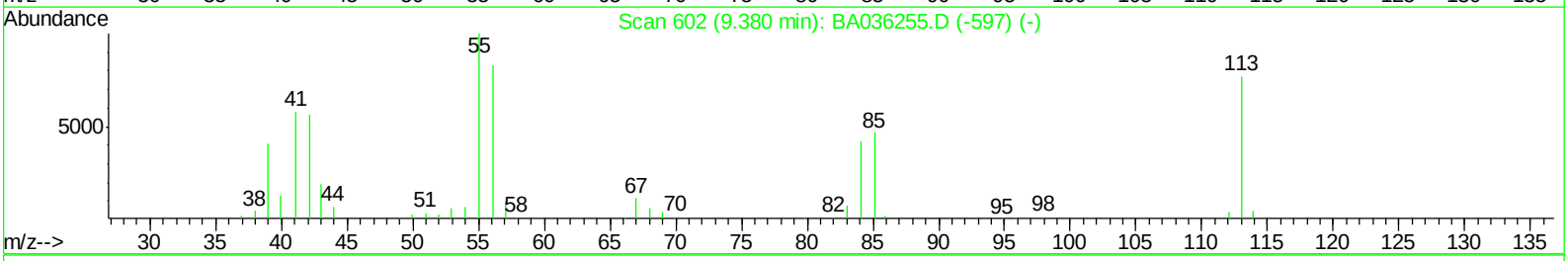
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(30) Caprolactam

9.906min (+0.011) 22.67ng/ul m

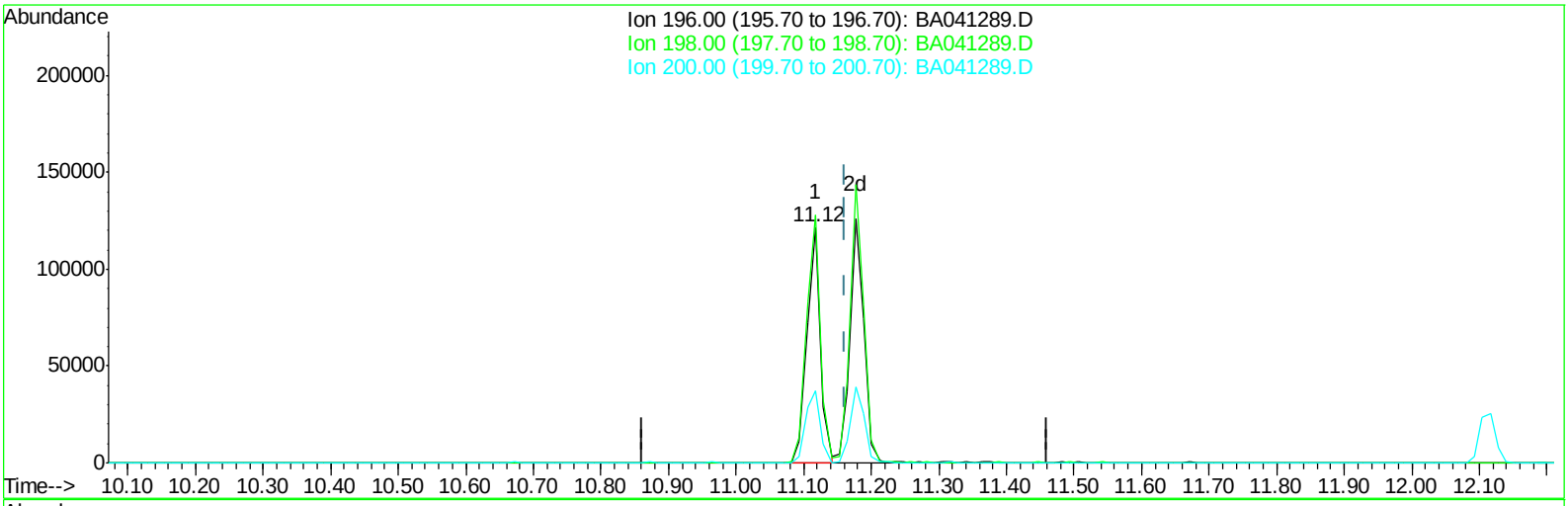
response 58639

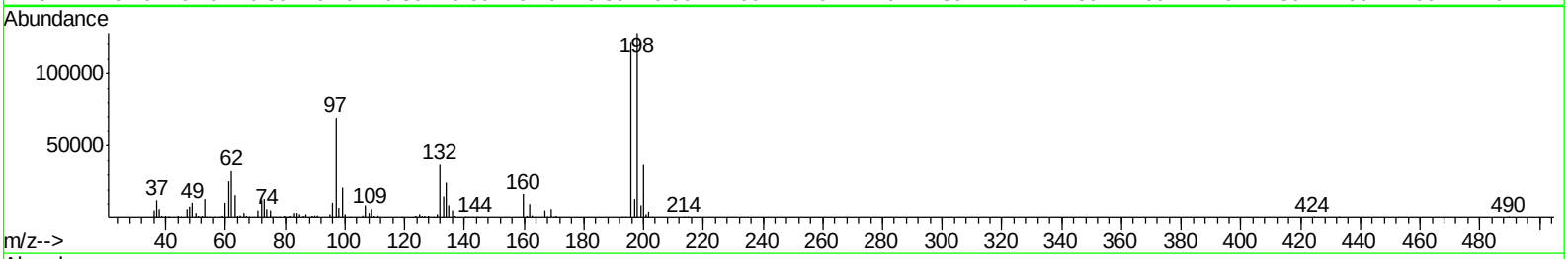
Ion	Exp%	Act%
113.00	100	100
55.00	130.00	148.47
56.00	107.70	121.85
0.00	0.00	0.00

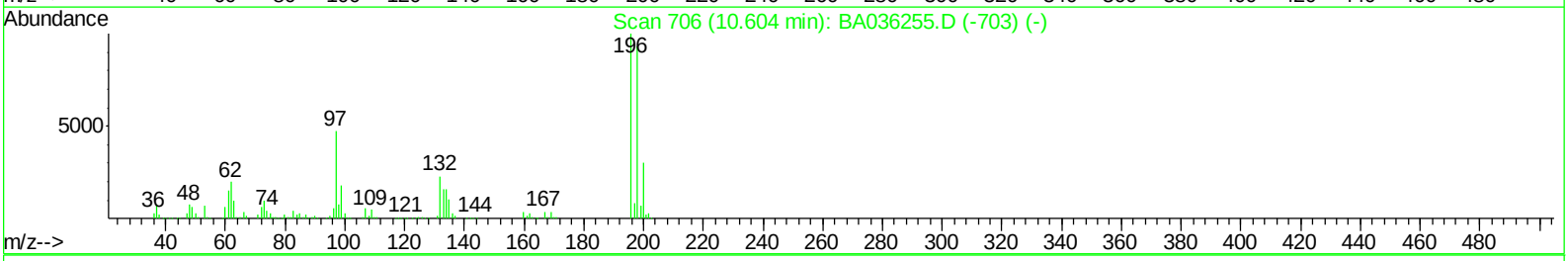
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(37) 2,4,5-Trichlorophenol

11.118min (-0.044) 19.11ng/ul

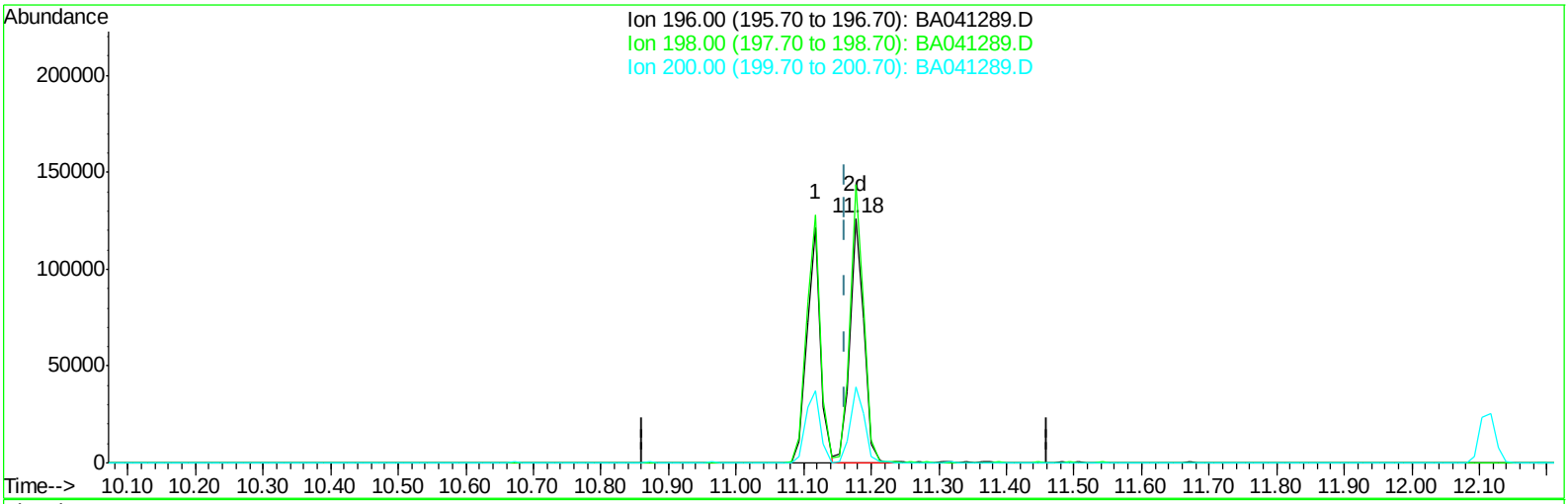
response 168238

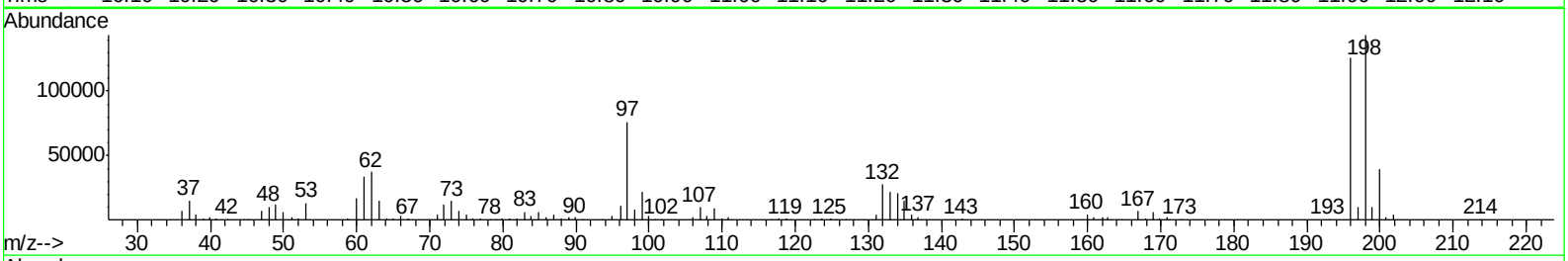
Ion	Exp%	Act%
196.00	100	100
198.00	93.20	105.29
200.00	29.80	30.71
0.00	0.00	0.00

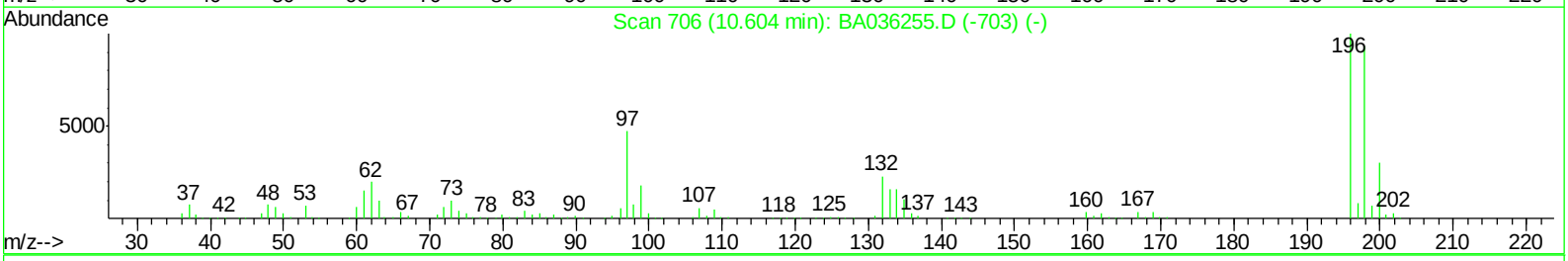
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:00:27 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration







TIC: BA041289.D

(37) 2,4,5-Trichlorophenol

11.177min (+0.015) 20.14ng/ul m

response 177236

Ion	Exp%	Act%
196.00	100	100
198.00	93.20	113.87#
200.00	29.80	31.05
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	165870	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	545763	20.00	ng/ul	0.02
33) Acenaphthene-d10	12.67	164	400296	20.00	ng/ul	0.02
59) Phenanthrene-d10	15.76	188	734942	20.00	ng/ul	0.02
73) Chrysene-d12	21.29	240	863637	20.00	ng/ul	-0.02
81) Perylene-d12	25.07	264	688065	20.00	ng/ul	-0.09
System Monitoring Compounds						
3) Phenol-d5	6.06	99	186621	14.70	ng/ul	0.02
5) Bis-(2-Chloroethyl)ether-d	6.15	67	132940	18.90	ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	174573	16.62	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	136003	15.82	ng/ul	0.00
17) Nitrobenzene-d5	7.69	128	95677	17.61	ng/ul	0.01
20) 2-Nitrophenol-d4	8.32	143	113713	18.26	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.79	165	213796	23.71	ng/ul	0.01
27) 4-Chloroaniline-d4	9.22	131	208874	18.04	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	525622	20.15	ng/ul	0.02
44) Acenaphthylene-d8	12.34	160	637095	18.04	ng/ul	0.02
49) 4-Nitrophenol-d4	12.96	143	106542	16.65	ng/ul	0.02
55) Fluorene-d10	13.74	176	411456	19.13	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.92	200	144029	18.25	ng/ul	0.01
68) Anthracene-d10	15.86	188	696653	18.96	ng/ul	0.01
74) Pyrene-d10	18.72	212	728593	15.95	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.82	264	698946	18.21	ng/ul	-0.08
Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	103750	14.91	ng/ul	87
4) Phenol	6.08	94	216356	16.34	ng/ul#	53
6) Bis(2-Chloroethyl)ether	6.23	93	168168	16.69	ng/ul#	84
8) 2-Chlorophenol	6.32	128	192661	18.06	ng/ul#	83
9) 2-Methylphenol	7.14	108	146246	16.61	ng/ul	97
10) 2,2'-oxybis(1-Chloropropan	7.20	45	258881	18.41	ng/ul	99
12) Acetophenone	7.42	105	275375	21.67	ng/ul#	80
13) N-Nitroso-di-n-propylamine	7.45	70	132821	20.52	ng/ul#	68
14) 4-Methylphenol	7.45	108	143778	15.74	ng/ul	86
15) Hexachloroethane	7.61	117	106361	19.63	ng/ul#	80
18) Nitrobenzene	7.73	77	221353	21.91	ng/ul#	90
19) Isophorone	8.20	82	454028	26.59	ng/ul	93
21) 2-Nitrophenol	8.34	139	123405	19.23	ng/ul#	66
22) 2,4-Dimethylphenol	8.46	107	207124	22.64	ng/ul	92
23) Bis(2-Chloroethoxy)methane	8.65	93	209308	18.08	ng/ul#	96
25) 2,4-Dichlorophenol	8.81	162	218866	24.00	ng/ul#	93
26) Naphthalene	9.12	128	476882	17.81	ng/ul	96
28) 4-Chloroaniline	9.25	127	147026	13.67	ng/ul	99
29) Hexachlorobutadiene	9.41	225	169292	31.67	ng/ul	94
30) Caprolactam	9.91	113	58639m	22.67	ng/ul	
31) 4-Chloro-3-methylphenol	10.26	107	180855	23.36	ng/ul	94
32) 2-Methylnaphthalene	10.52	142	370782	21.36	ng/ul	95
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	304728	24.57	ng/ul	94
35) Hexachlorocyclopentadiene	10.87	237	208950	30.40	ng/ul	99

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041289.D
Acq On : 19 Oct 2008 14:01
Operator : QM
Sample : ICC0020BA0048
Misc : SSTD02048
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:04:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 10:22:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	168238	20.52 ng/ul	90
37) 2,4,5-Trichlorophenol	11.18	196	177236m	20.14 ng/ul	
38) 1,1'-Biphenyl	11.49	154	524452	18.82 ng/ul#	93
39) 2-Chloronaphthalene	11.52	162	458657	19.47 ng/ul	95
40) 2-Nitroaniline	11.74	65	143010	21.40 ng/ul#	76
42) Dimethylphthalate	12.16	163	572137	21.11 ng/ul	98
43) 2,6-Dinitrotoluene	12.27	165	143898	20.19 ng/ul	93
45) Acenaphthylene	12.36	152	605238	17.34 ng/ul#	93
46) 3-Nitroaniline	12.60	138	110110	15.93 ng/ul	99
47) Acenaphthene	12.73	153	408102	19.38 ng/ul	94
48) 2,4-Dinitrophenol	12.81	184	111732	26.40 ng/ul#	87
50) 4-Nitrophenol	12.98	109	120941	29.08 ng/ul#	71
51) Dibenzofuran	13.09	168	596874	19.27 ng/ul#	85
52) 2,4-Dinitrotoluene	13.09	165	179165	20.06 ng/ul#	57
53) 2,3,4,6-Tetrachlorophenol	13.36	232	174059	24.80 ng/ul#	88
54) Diethylphthalate	13.64	149	554598	20.49 ng/ul	99
56) Fluorene	13.80	166	485913	19.26 ng/ul	98
57) 4-Chlorophenyl-phenylether	13.84	204	267647	21.73 ng/ul	94
58) 4-Nitroaniline	13.86	138	98050	14.74 ng/ul#	56
61) 4,6-Dinitro-2-methylphenol	13.94	198	149082	19.46 ng/ul	93
62) N-Nitrosodiphenylamine	14.08	169	420493	17.04 ng/ul	97
63) 4-Bromophenyl-phenylether	14.85	248	177082	19.81 ng/ul	90
64) Hexachlorobenzene	14.97	284	206010	19.74 ng/ul	96
65) Atrazine	15.23	200	71945	9.39 ng/ul	93
66) Pentachlorophenol	15.38	266	156819	25.43 ng/ul	94
67) Phenanthrene	15.80	178	736152	16.48 ng/ul	100
69) Anthracene	15.91	178	725047	16.70 ng/ul	99
70) Carbazole	16.25	167	653398	16.99 ng/ul	98
71) Di-n-butylphthalate	17.05	149	941636	16.24 ng/ul#	95
72) Fluoranthene	18.28	202	867225	18.71 ng/ul#	86
75) Pyrene	18.76	202	896458	15.49 ng/ul#	85
76) Butylbenzylphthalate	20.16	149	464058	15.35 ng/ul	97
77) 3,3'-Dichlorobenzidine	21.23	252	298536	17.81 ng/ul	96
78) Benzo(a)anthracene	21.27	228	857385	15.29 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.38	149	436825	12.76 ng/ul	99
80) Chrysene	21.35	228	759670	15.39 ng/ul	95
82) Di-n-octyl phthalate	22.90	149	868725	15.53 ng/ul	100
83) Benzo(b)fluoranthene	23.90	252	863642	18.77 ng/ul#	91
84) Benzo(k)fluoranthene	23.98	252	746117	16.53 ng/ul#	94
86) Benzo(a)pyrene	24.90	252	780602	18.44 ng/ul#	91
87) Indeno(1,2,3-cd)pyrene	29.28	276	710531	19.49 ng/ul#	65
88) Dibenzo(a,h)anthracene	29.40	278	574259	16.41 ng/ul#	90
89) Benzo(g,h,i)perylene	30.56	276	730437	18.56 ng/ul#	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 23:28

Lab File ID: BA041302.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.616	0.010	14.1	50.0
Phenol	1.314	1.269	0.010	-3.4	50.0
Bis(2-Chloroethyl)ether	1.052	1.019	0.010	-3.1	50.0
2-Chlorophenol	1.164	1.082	0.010	-7.1	50.0
2-Methylphenol	0.911	0.918	0.010	0.8	50.0
2,2-oxybis(1-Chloropropane)	1.559	1.576	0.010	1.1	50.0
Acetophenone	1.607	1.491	0.010	-7.2	50.0
4-Methylphenol	0.954	0.922	0.010	-3.3	50.0
N-Nitroso-di-n-propylamine	0.819	0.761	0.010	-7.1	50.0
Hexachloroethane	0.642	0.631	0.010	-1.7	50.0
Nitrobenzene	0.416	0.429	0.010	3.2	50.0
Isophorone	0.802	0.807	0.010	0.7	50.0
2-Nitrophenol	0.234	0.235	0.010	0.4	50.0
2,4-Dimethylphenol	0.386	0.391	0.010	1.4	50.0
Bis(2-Chloroethoxy)methane	0.395	0.398	0.010	0.7	50.0
2,4-Dichlorophenol	0.409	0.390	0.010	-4.6	50.0
Naphthalene	0.905	0.924	0.010	2.2	50.0
4-Chloroaniline	0.264	0.266	0.010	0.6	50.0
Hexachlorobutadiene	0.309	0.277	0.010	-10.2	50.0
Caprolactam	0.099	0.106	0.010	6.9	50.0
4-Chloro-3-methylphenol	0.353	0.353	0.010	0.1	50.0
2-Methylnaphthalene	0.709	0.654	0.010	-7.8	50.0
Hexachlorocyclopentadiene	0.519	0.488	0.010	-6.0	50.0
2,4,6-Trichlorophenol	0.451	0.448	0.010	-0.7	50.0
2,4,5-Trichlorophenol	0.466	0.445	0.010	-4.5	50.0
1,1-Biphenyl	1.407	1.359	0.010	-3.4	50.0
2-Chloronaphthalene	1.211	1.144	0.010	-5.5	50.0
2-Nitroaniline	0.376	0.382	0.010	1.5	50.0
Dimethylphthalate	1.452	1.394	0.010	-4.0	50.0
2,6-Dinitrotoluene	0.367	0.353	0.010	-3.9	50.0
Acenaphthylene	1.591	1.663	0.010	4.5	50.0
3-Nitroaniline	0.289	0.302	0.010	4.4	50.0
Acenaphthene	1.048	0.987	0.010	-5.8	50.0
2,4-Dinitrophenol	0.301	0.276	0.010	-8.3	50.0
4-Nitrophenol	0.326	0.294	0.010	-9.8	50.0
Dibenzofuran	1.562	1.526	0.010	-2.3	50.0
2,4-Dinitrotoluene	0.480	0.474	0.010	-1.2	50.0
Diethylphthalate	1.411	1.365	0.010	-3.2	50.0
Fluorene	1.290	1.313	0.010	1.8	50.0
4-Chlorophenyl-phenylether	0.686	0.653	0.010	-4.9	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 23:28

Lab File ID: BA041302.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.278	0.010	23.5	50.0
4,6-Dinitro-2-methylphenol	0.213	0.209	0.010	-2.0	50.0
N-Nitrosodiphenylamine[1]	0.571	0.606	0.010	6.1	50.0
1,2,4,5-Tetrachlorobenzene	0.748	0.696	0.010	-6.9	50.0
4-Bromophenyl-phenylether	0.246	0.229	0.010	-7.0	50.0
Hexachlorobenzene	0.287	0.279	0.010	-2.9	50.0
Atrazine	0.101	0.103	0.010	2.2	50.0
Pentachlorophenol	0.219	0.216	0.010	-1.4	50.0
Phenanthrene	1.020	1.034	0.010	1.4	50.0
Anthracene	1.027	1.019	0.010	-0.8	50.0
Carbazole	0.929	0.944	0.010	1.6	50.0
Di-n-butylphthalate	1.330	1.387	0.010	4.3	50.0
Fluoranthene	1.211	1.182	0.010	-2.4	50.0
Pyrene	1.110	1.099	0.010	-1.0	50.0
Butylbenzylphthalate	0.538	0.550	0.010	2.3	50.0
3,3-Dichlorobenzidine	0.323	0.339	0.010	5.0	50.0
Benzo(a)anthracene	1.061	1.029	0.010	-3.0	50.0
Chrysene	0.901	0.974	0.010	8.1	50.0
Bis(2-ethylhexyl)phthalate	0.563	0.567	0.010	0.6	50.0
Di-n-octyl phthalate	1.273	1.328	0.010	4.3	50.0
Benzo(b)fluoranthene	1.306	1.190	0.010	-8.9	50.0
Benzo(k)fluoranthene	1.111	1.195	0.010	7.6	50.0
Benzo(a)pyrene	1.126	1.130	0.010	0.3	50.0
Indeno(1,2,3-cd)pyrene	1.055	0.999	0.010	-5.3	50.0
Dibenzo(a,h)anthracene	0.810	0.888	0.010	9.6	50.0
Benzo(g,h,i)perylene	1.068	1.066	0.010	-0.2	50.0
2,3,4,6-Tetrachlorophenol	0.441	0.420	0.010	-4.7	50.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/19/2008 Time: 23:28

Lab File ID: BA041302.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

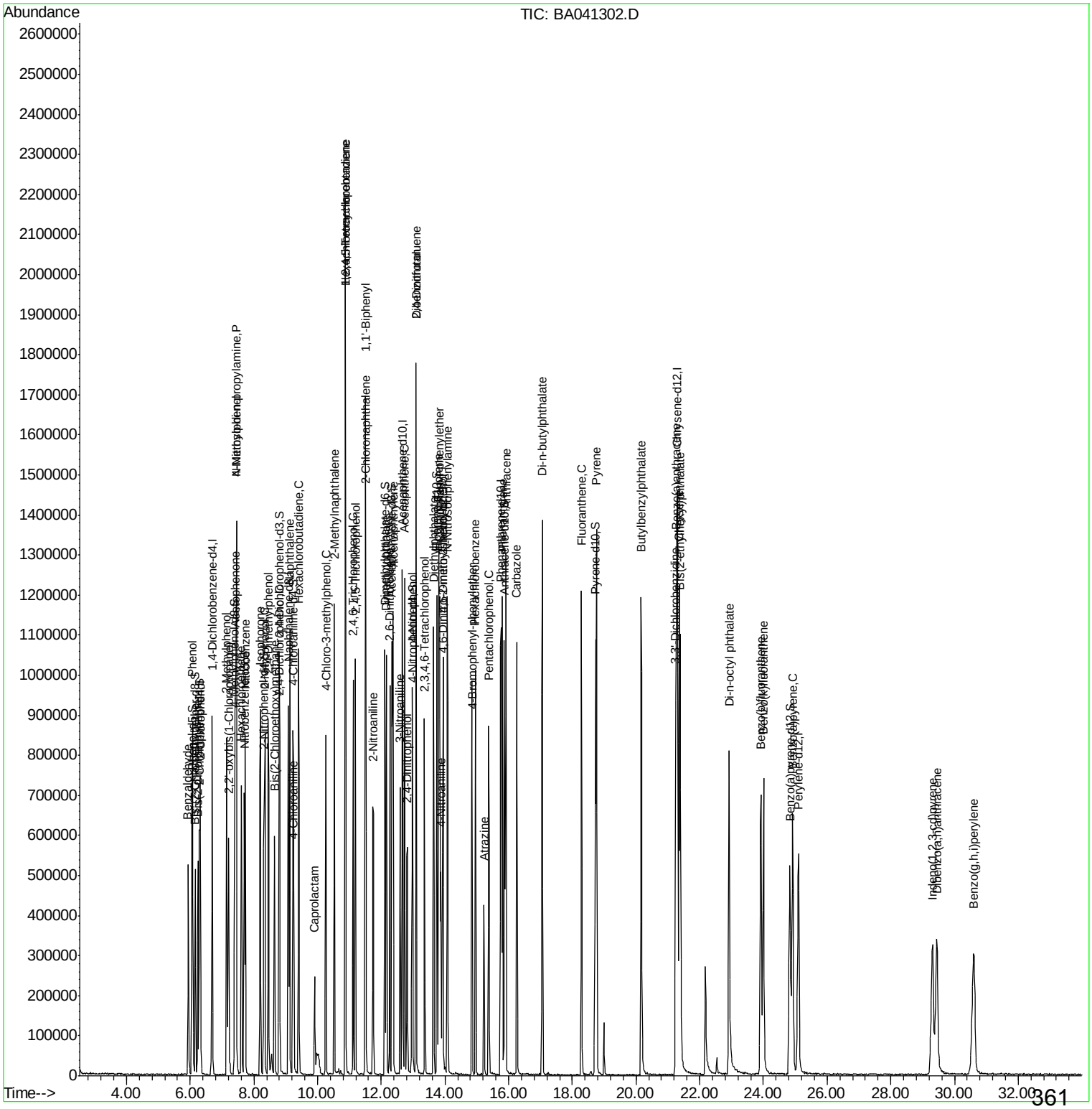
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.154	0.010	-4.7	50.0
Bis(2-Chloroethyl)ether-d8	0.821	0.824	0.010	0.4	50.0
2-Chlorophenol-d4	1.029	1.028	0.010	-0.1	50.0
4-Methylphenol-d8	0.822	0.818	0.010	-0.5	50.0
Nitrobenzene-d5	0.177	0.170	0.010	-3.7	50.0
2-Nitrophenol-d4	0.218	0.221	0.010	1.2	50.0
2,4-Dichlorophenol-d3	0.403	0.392	0.010	-2.6	50.0
4-Chloroaniline-d4	0.399	0.410	0.010	2.9	50.0
Dimethylphthalate-d6	1.332	1.372	0.010	3.0	50.0
Acenaphthylene-d8	1.619	1.682	0.010	3.9	50.0
4-Nitrophenol-d4	0.271	0.256	0.010	-5.6	50.0
Fluorene-d10	1.071	1.034	0.010	-3.5	50.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.204	0.010	-1.6	50.0
Anthracene-d10	0.957	0.959	0.010	0.2	50.0
Pyrene-d10	0.874	0.880	0.010	0.7	50.0
Benzo(a)pyrene-d12	1.089	1.056	0.010	-3.0	50.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

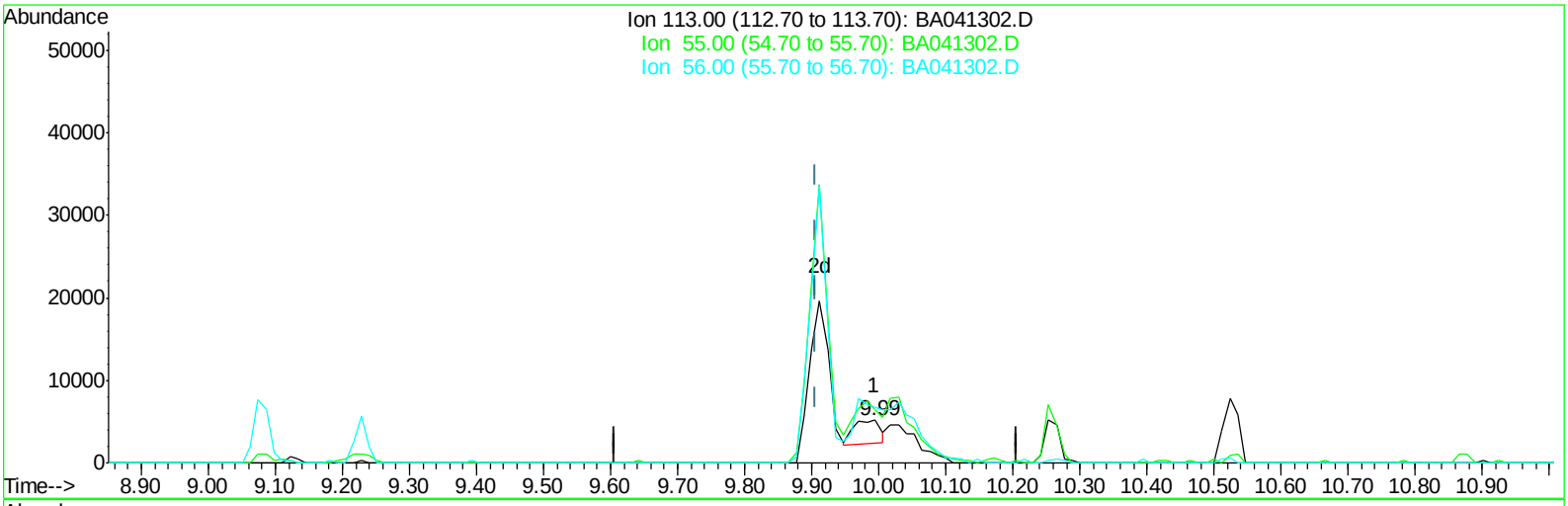
Quant Time: Oct 20 12:16:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

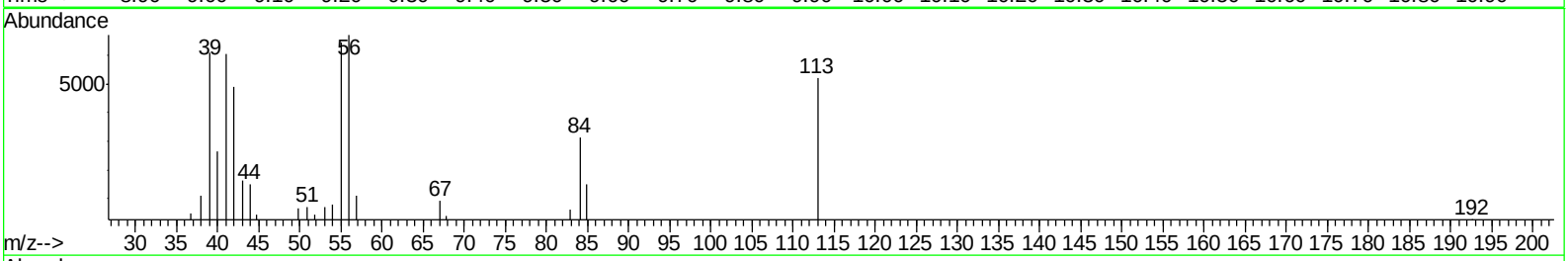


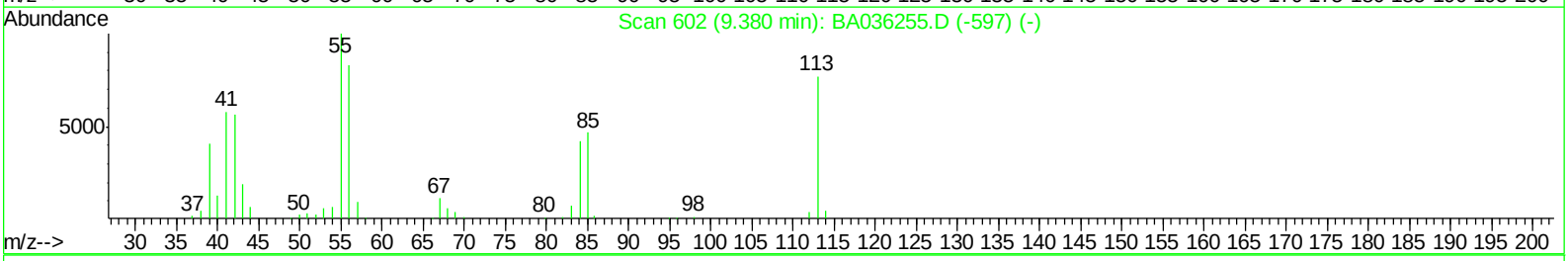
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(30) Caprolactam

9.994min (+0.088) 2.38ng/ul

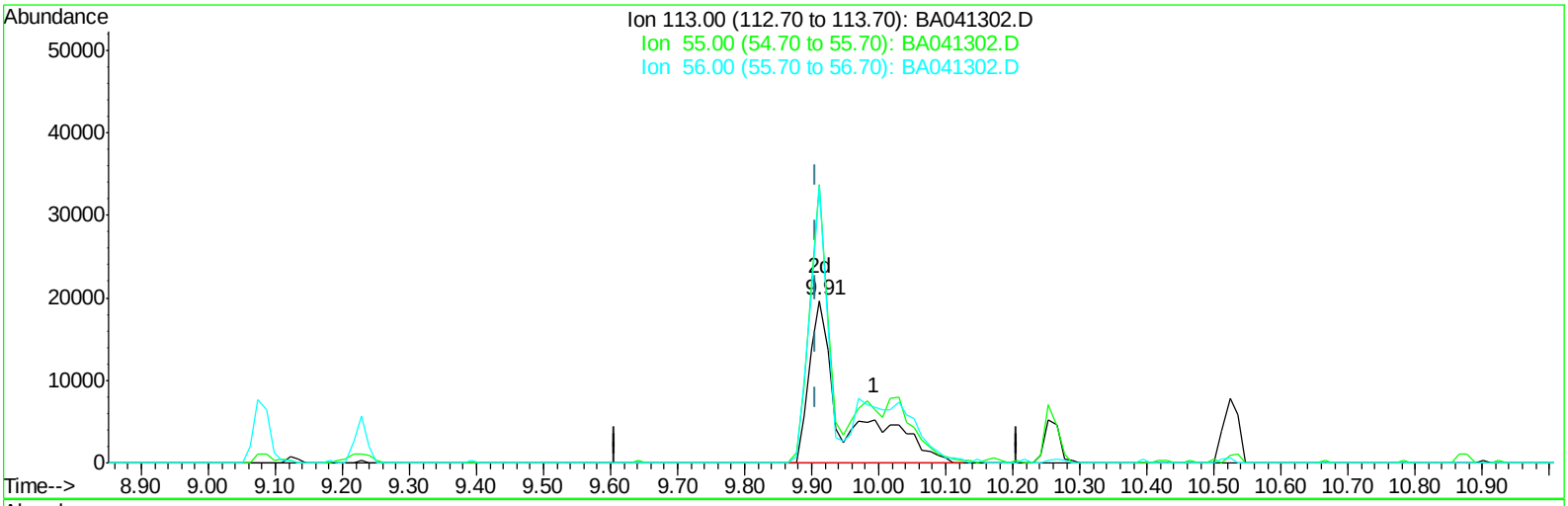
response 8146

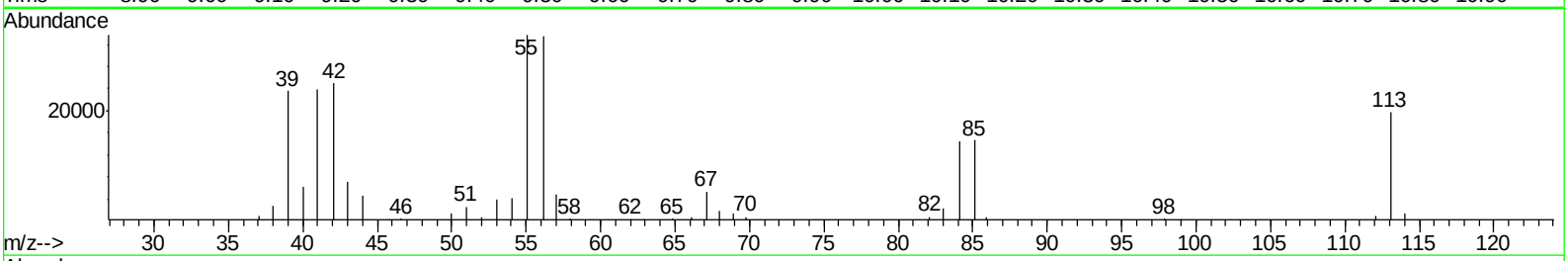
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	124.48
56.00	121.80	129.14
0.00	0.00	0.00

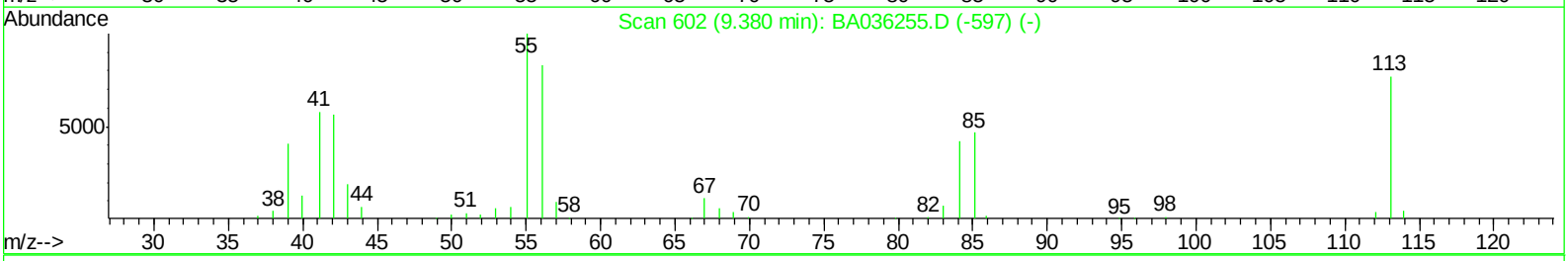
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(30) Caprolactam

9.912min (+0.006) 21.33ng/ul m

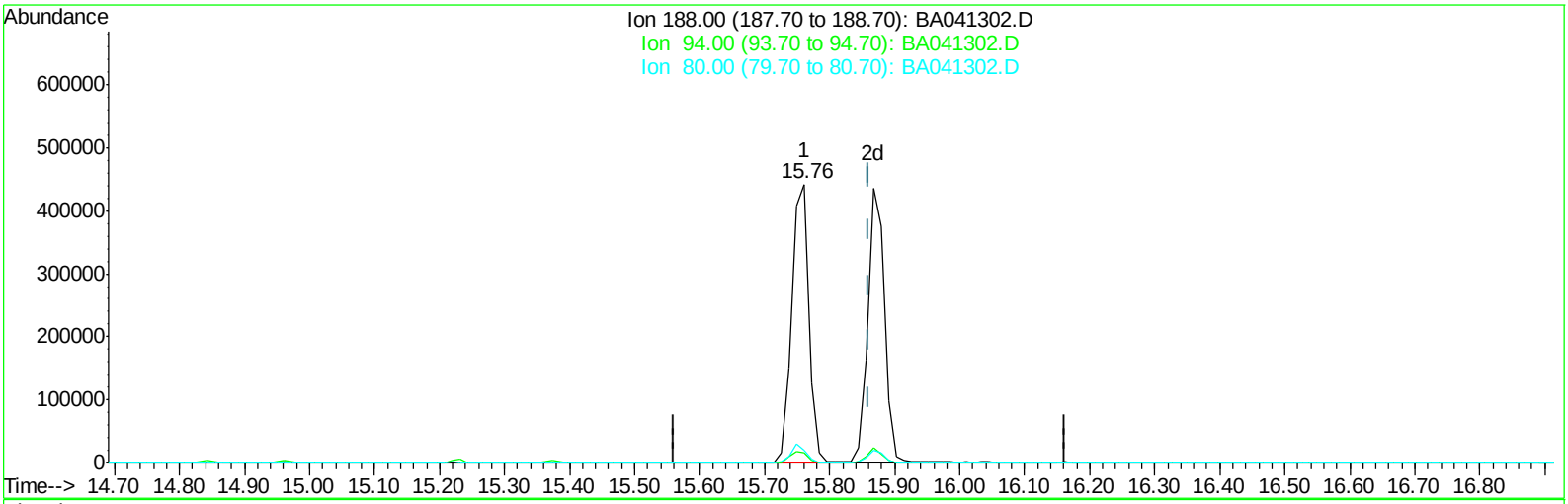
response 72885

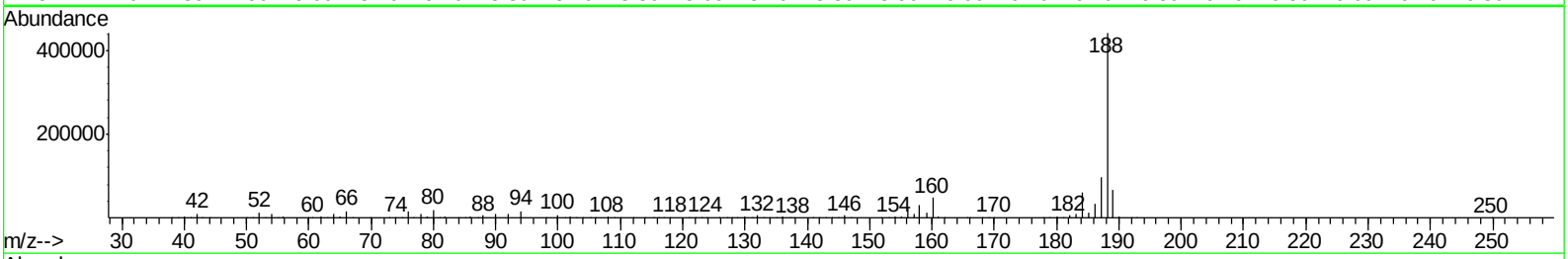
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	171.55
56.00	121.80	170.61#
0.00	0.00	0.00

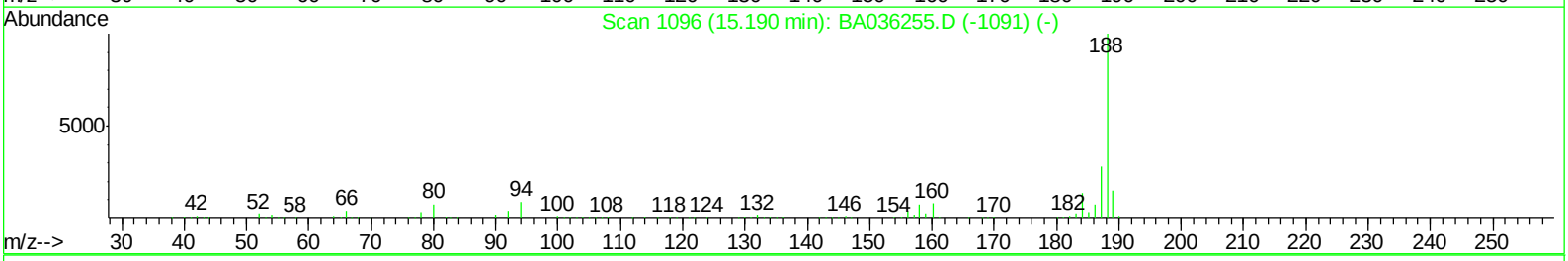
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(68) Anthracene-d10 (S)

15.761min (-0.101) 20.89ng/ul

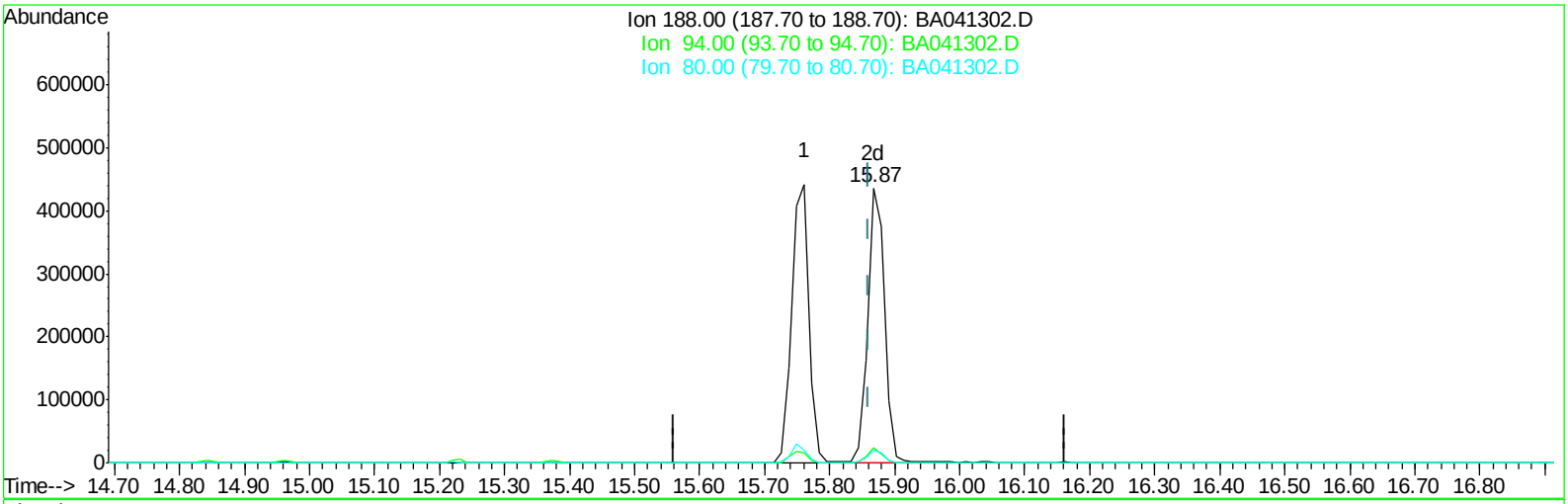
response 828346

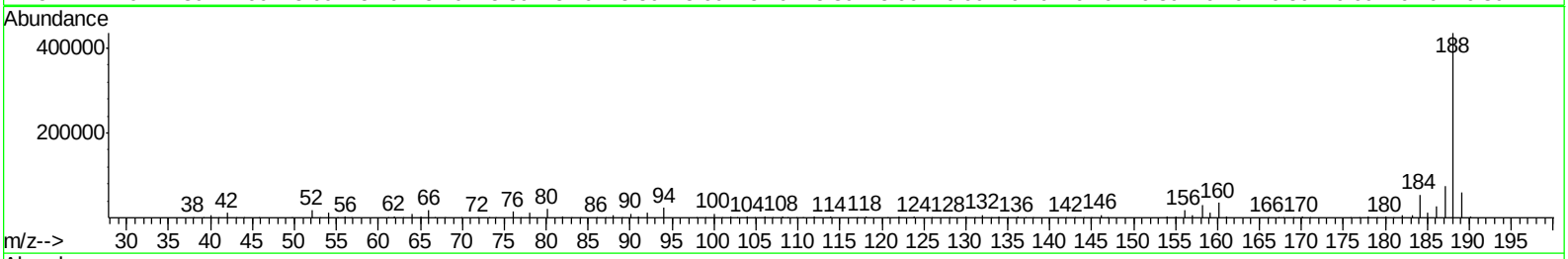
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	3.83
80.00	4.20	4.39
0.00	0.00	0.00

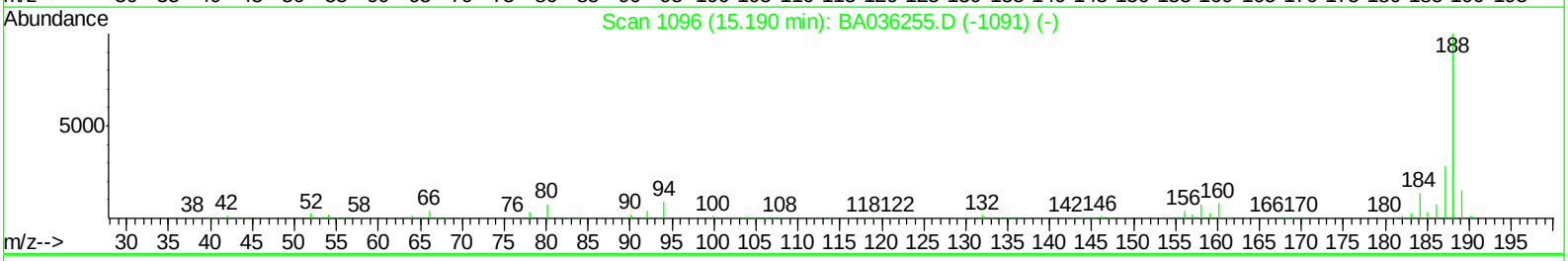
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(68) Anthracene-d10 (S)

15.867min (+0.006) 20.03ng/ul m

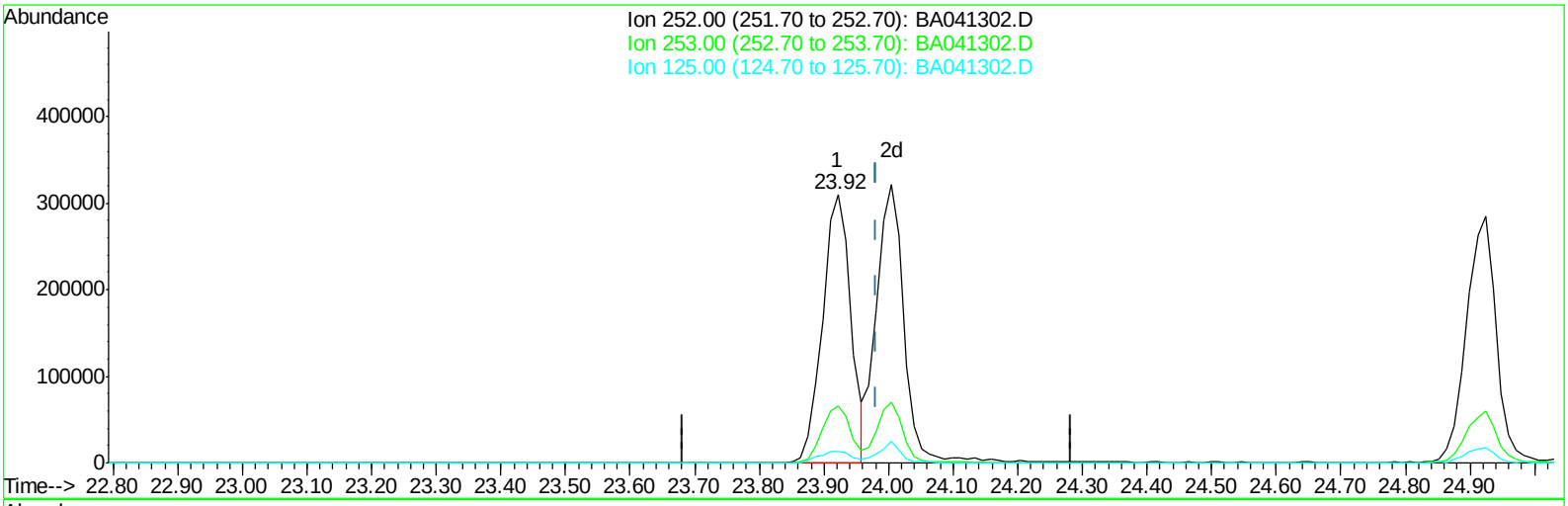
response 794464

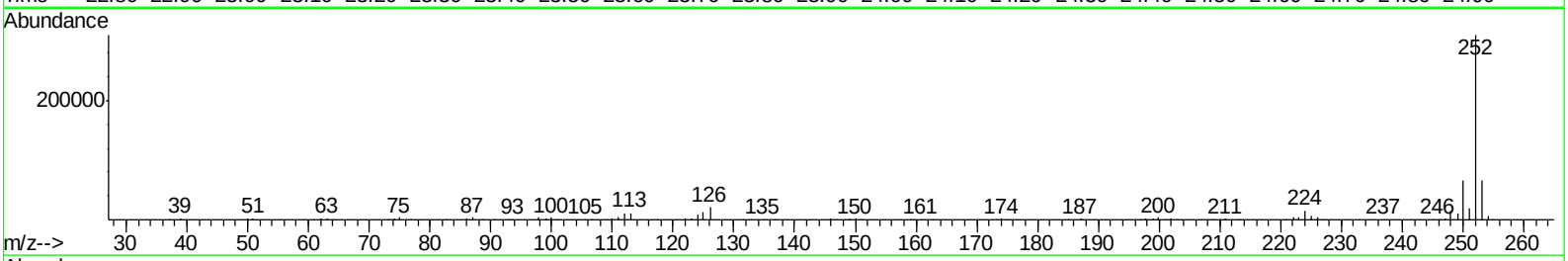
Ion	Exp%	Act%
188.00	100	100
94.00	4.00	5.32#
80.00	4.20	4.61
0.00	0.00	0.00

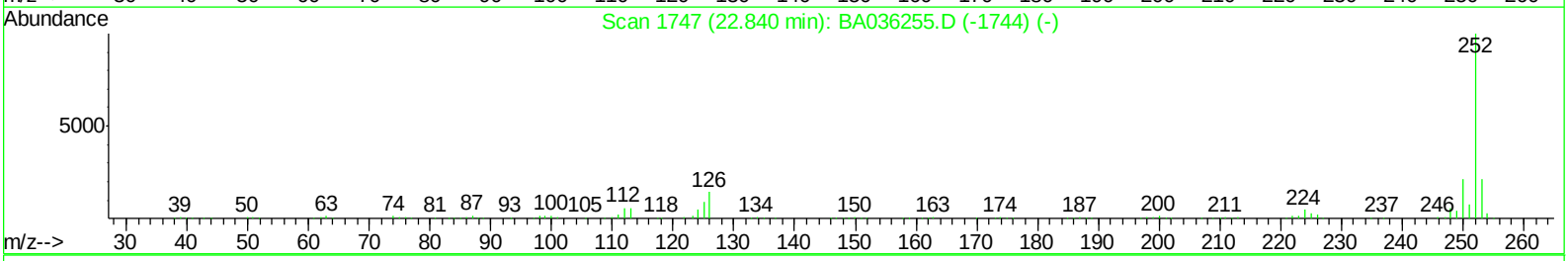
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(84) Benzo(k)fluoranthene

23.922min (-0.061) 21.41ng/ul

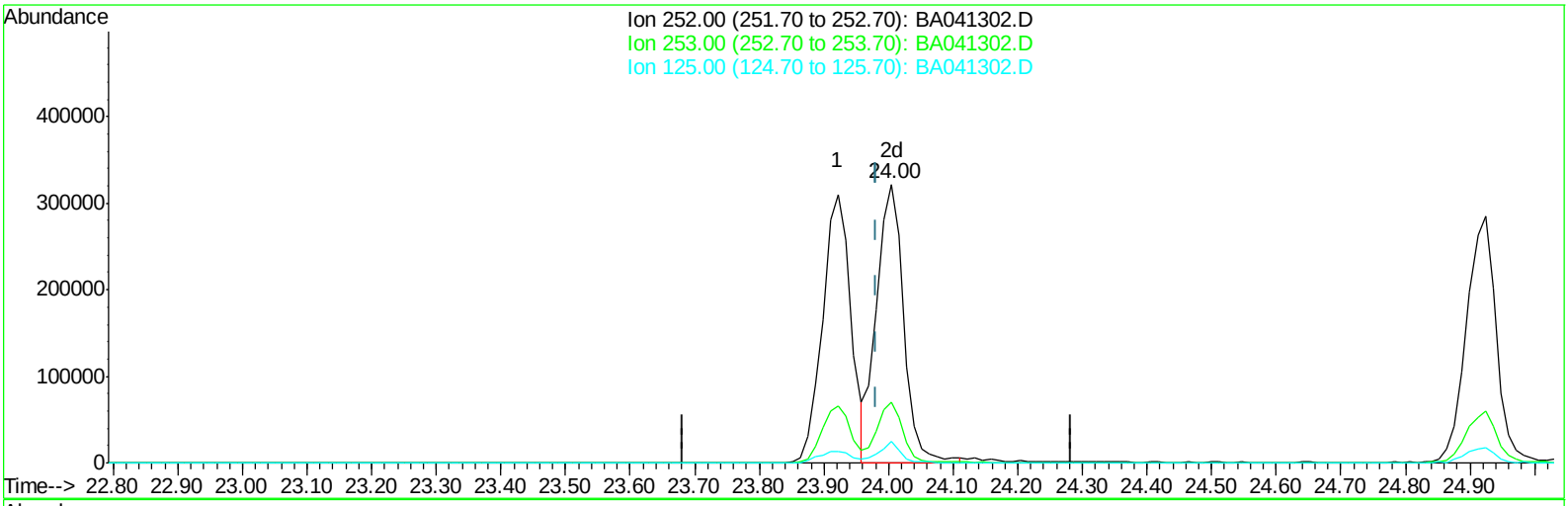
response 939880

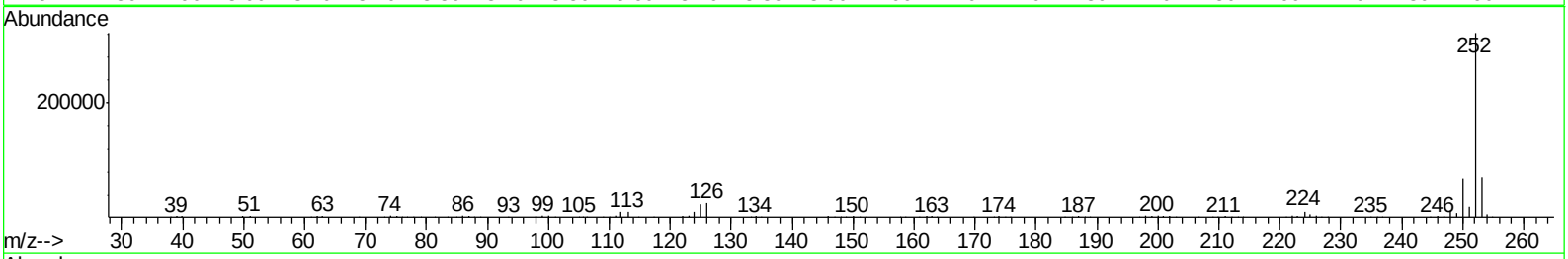
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	21.30
125.00	4.40	4.39
0.00	0.00	0.00

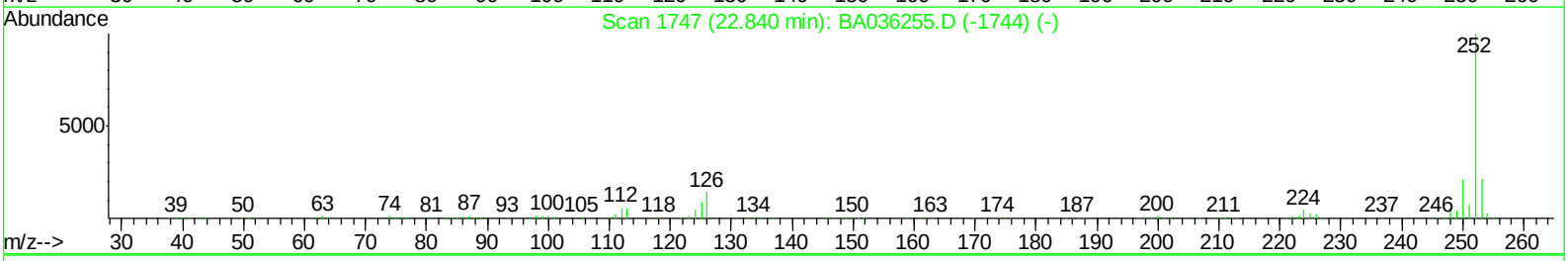
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:35:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041302.D

(84) Benzo(k)fluoranthene

24.005min (+0.023) 21.51ng/ul m

response 944349

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	21.71
125.00	4.40	7.66#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 12:16:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	228931	20.00	ng/ul	0.00
16) Naphthalene-d8	9.09	136	688669	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.67	164	475481	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.76	188	828346	20.00	ng/ul	0.00
73) Chrysene-d12	21.29	240	953051	20.00	ng/ul	0.00
81) Perylene-d12	25.10	264	790075	20.00	ng/ul	0.03
System Monitoring Compounds						
3) Phenol-d5	6.05	99	264247	19.06	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	188617	20.07	ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	235358	19.98	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	187199	19.91	ng/ul	0.00
17) Nitrobenzene-d5	7.70	128	117374	19.25	ng/ul	0.00
20) 2-Nitrophenol-d4	8.32	143	151900	20.24	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.79	165	270285	19.46	ng/ul	0.00
27) 4-Chloroaniline-d4	9.23	131	282641	20.58	ng/ul	0.00
41) Dimethylphthalate-d6	12.11	166	652339	20.60	ng/ul	0.00
44) Acenaphthylene-d8	12.34	160	799709	20.77	ng/ul	0.00
49) 4-Nitrophenol-d4	12.97	143	121660	18.85	ng/ul	0.00
55) Fluorene-d10	13.75	176	491667	19.31	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.93	200	168662	19.68	ng/ul	0.00
68) Anthracene-d10	15.87	188	794464m	20.03	ng/ul	0.00
74) Pyrene-d10	18.73	212	839006	20.15	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.83	264	834551	19.40	ng/ul	0.01

Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	141024	22.80	ng/ul	94
4) Phenol	6.08	94	290507	19.32	ng/ul	96
6) Bis(2-Chloroethyl)ether	6.24	93	233369	19.38	ng/ul	86
8) 2-Chlorophenol	6.32	128	247601	18.58	ng/ul	96
9) 2-Methylphenol	7.15	108	210206	20.16	ng/ul	92
10) 2,2'-oxybis(1-Chloropropan	7.20	45	360707	20.21	ng/ul	97
12) Acetophenone	7.43	105	341263	18.55	ng/ul	96
13) N-Nitroso-di-n-propylamine	7.45	70	174260	18.58	ng/ul#	94
14) 4-Methylphenol	7.45	108	211146	19.33	ng/ul	92
15) Hexachloroethane	7.60	117	144450	19.66	ng/ul#	81
18) Nitrobenzene	7.73	77	295631	20.64	ng/ul	96
19) Isophorone	8.20	82	556020	20.12	ng/ul	99
21) 2-Nitrophenol	8.34	139	161766	20.08	ng/ul	98
22) 2,4-Dimethylphenol	8.45	107	269463	20.27	ng/ul	91
23) Bis(2-Chloroethoxy)methane	8.65	93	273808	20.15	ng/ul	96
25) 2,4-Dichlorophenol	8.82	162	268671	19.10	ng/ul	96
26) Naphthalene	9.12	128	636668	20.43	ng/ul	97
28) 4-Chloroaniline	9.25	127	182928	20.16	ng/ul	94
29) Hexachlorobutadiene	9.41	225	190987	17.93	ng/ul	90
30) Caprolactam	9.91	113	72885m	21.33	ng/ul	
31) 4-Chloro-3-methylphenol	10.26	107	243337	20.03	ng/ul#	86
32) 2-Methylnaphthalene	10.52	142	450397	18.46	ng/ul	98
34) 1,2,4,5-Tetrachlorobenzene	10.88	216	331149	18.62	ng/ul	96
35) Hexachlorocyclopentadiene	10.88	237	231905	18.79	ng/ul#	93

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041302.D
Acq On : 19 Oct 2008 23:28
Operator : QM
Sample : CCC0020BA0053
Misc : SSTD02053
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 12:16:06 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.11	196	213048	19.86 ng/ul	96
37) 2,4,5-Trichlorophenol	11.18	196	211515	19.11 ng/ul	93
38) 1,1'-Biphenyl	11.50	154	646115	19.32 ng/ul	99
39) 2-Chloronaphthalene	11.51	162	543914	18.88 ng/ul	96
40) 2-Nitroaniline	11.74	65	181538	20.33 ng/ul	89
42) Dimethylphthalate	12.16	163	662881	19.20 ng/ul	97
43) 2,6-Dinitrotoluene	12.27	165	167654	19.22 ng/ul	90
45) Acenaphthylene	12.37	152	790805	20.90 ng/ul	94
46) 3-Nitroaniline	12.59	138	143477	20.91 ng/ul	99
47) Acenaphthene	12.74	153	469348	18.83 ng/ul	99
48) 2,4-Dinitrophenol	12.82	184	131237	18.32 ng/ul	99
50) 4-Nitrophenol	12.98	109	139774	18.06 ng/ul	90
51) Dibenzofuran	13.10	168	725436	19.53 ng/ul	92
52) 2,4-Dinitrotoluene	13.10	165	225547	19.77 ng/ul	89
53) 2,3,4,6-Tetrachlorophenol	13.37	232	199842	19.05 ng/ul	95
54) Diethylphthalate	13.64	149	649251	19.36 ng/ul	99
56) Fluorene	13.81	166	624222	20.36 ng/ul	96
57) 4-Chlorophenyl-phenylether	13.83	204	310276	19.01 ng/ul	92
58) 4-Nitroaniline	13.87	138	132116	24.70 ng/ul	91
61) 4,6-Dinitro-2-methylphenol	13.94	198	172989	19.62 ng/ul#	91
62) N-Nitrosodiphenylamine	14.08	169	501628	21.23 ng/ul	98
63) 4-Bromophenyl-phenylether	14.85	248	189549	18.62 ng/ul	96
64) Hexachlorobenzene	14.96	284	230782	19.44 ng/ul#	88
65) Atrazine	15.23	200	85534	20.49 ng/ul	94
66) Pentachlorophenol	15.37	266	178832	19.71 ng/ul	94
67) Phenanthrene	15.81	178	856890	20.27 ng/ul	99
69) Anthracene	15.91	178	843680	19.84 ng/ul	98
70) Carbazole	16.26	167	781622	20.32 ng/ul	96
71) Di-n-butylphthalate	17.06	149	1149130	20.86 ng/ul	99
72) Fluoranthene	18.29	202	979394	19.53 ng/ul#	97
75) Pyrene	18.76	202	1047427	19.81 ng/ul#	98
76) Butylbenzylphthalate	20.16	149	524654	20.47 ng/ul	89
77) 3,3'-Dichlorobenzidine	21.25	252	323257	20.98 ng/ul	97
78) Benzo(a)anthracene	21.27	228	980716	19.40 ng/ul	98
79) Bis(2-ethylhexyl)phthalate	21.39	149	540051	20.15 ng/ul	98
80) Chrysene	21.35	228	928032	21.62 ng/ul	97
82) Di-n-octyl phthalate	22.92	149	1048922	20.87 ng/ul	100
83) Benzo(b)fluoranthene	23.92	252	939880	18.21 ng/ul	98
84) Benzo(k)fluoranthene	24.00	252	944349m	21.51 ng/ul	
86) Benzo(a)pyrene	24.92	252	892484	20.06 ng/ul#	95
87) Indeno(1,2,3-cd)pyrene	29.32	276	789371	18.93 ng/ul	99
88) Dibenzo(a,h)anthracene	29.45	278	701223	21.91 ng/ul	97
89) Benzo(g,h,i)perylene	30.60	276	842026	19.96 ng/ul	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 01:32

Lab File ID: BA041305.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.678	0.010	25.6	40.0
Phenol	1.314	1.246	0.800	-5.2	25.0
Bis(2-Chloroethyl)ether	1.052	1.078	0.700	2.5	25.0
2-Chlorophenol	1.164	1.133	0.800	-2.7	25.0
2-Methylphenol	0.911	0.890	0.700	-2.3	25.0
2,2-oxybis(1-Chloropropane)	1.559	1.548	0.010	-0.7	40.0
Acetophenone	1.607	1.599	0.010	-0.5	40.0
4-Methylphenol	0.954	0.939	0.600	-1.6	25.0
N-Nitroso-di-n-propylamine	0.819	0.855	0.500	4.4	25.0
Hexachloroethane	0.642	0.667	0.300	3.8	25.0
Nitrobenzene	0.416	0.444	0.200	6.7	25.0
Isophorone	0.802	0.824	0.400	2.7	25.0
2-Nitrophenol	0.234	0.232	0.100	-1.0	25.0
2,4-Dimethylphenol	0.386	0.377	0.200	-2.4	25.0
Bis(2-Chloroethoxy)methane	0.395	0.405	0.300	2.6	25.0
2,4-Dichlorophenol	0.409	0.388	0.200	-5.2	25.0
Naphthalene	0.905	0.888	0.700	-1.9	25.0
4-Chloroaniline	0.264	0.258	0.010	-2.4	40.0
Hexachlorobutadiene	0.309	0.265	0.010	-14.1	40.0
Caprolactam	0.099	0.098	0.010	-0.8	40.0
4-Chloro-3-methylphenol	0.353	0.346	0.200	-2.1	25.0
2-Methylnaphthalene	0.709	0.647	0.400	-8.8	25.0
Hexachlorocyclopentadiene	0.519	0.526	0.010	1.4	40.0
2,4,6-Trichlorophenol	0.451	0.441	0.200	-2.2	25.0
2,4,5-Trichlorophenol	0.466	0.470	0.200	0.8	25.0
1,1-Biphenyl	1.407	1.391	0.010	-1.2	40.0
2-Chloronaphthalene	1.211	1.189	0.800	-1.8	25.0
2-Nitroaniline	0.376	0.381	0.010	1.4	40.0
Dimethylphthalate	1.452	1.429	0.010	-1.6	40.0
2,6-Dinitrotoluene	0.367	0.378	0.200	2.9	25.0
Acenaphthylene	1.591	1.688	0.900	6.1	25.0
3-Nitroaniline	0.289	0.309	0.010	6.9	40.0
Acenaphthene	1.048	1.102	0.900	5.2	25.0
2,4-Dinitrophenol	0.301	0.284	0.010	-5.8	40.0
4-Nitrophenol	0.326	0.325	0.010	-0.4	40.0
Dibenzofuran	1.562	1.537	0.800	-1.6	25.0
2,4-Dinitrotoluene	0.480	0.503	0.200	4.7	25.0
Diethylphthalate	1.411	1.442	0.010	2.2	40.0
Fluorene	1.290	1.264	0.900	-2.0	25.0
4-Chlorophenyl-phenylether	0.686	0.651	0.400	-5.1	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 01:32

Lab File ID: BA041305.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.274	0.010	21.8	40.0
4,6-Dinitro-2-methylphenol	0.213	0.214	0.010	0.4	40.0
N-Nitrosodiphenylamine[1]	0.571	0.602	0.010	5.4	40.0
1,2,4,5-Tetrachlorobenzene	0.748	0.747	0.010	-0.2	40.0
4-Bromophenyl-phenylether	0.246	0.247	0.100	0.2	25.0
Hexachlorobenzene	0.287	0.284	0.100	-1.1	25.0
Atrazine	0.101	0.104	0.010	3.0	40.0
Pentachlorophenol	0.219	0.209	0.050	-4.6	25.0
Phenanthrene	1.020	1.048	0.700	2.7	25.0
Anthracene	1.027	1.049	0.700	2.2	25.0
Carbazole	0.929	0.973	0.010	4.8	40.0
Di-n-butylphthalate	1.330	1.462	0.010	9.9	40.0
Fluoranthene	1.211	1.199	0.600	-1.0	25.0
Pyrene	1.110	1.049	0.600	-5.5	25.0
Butylbenzylphthalate	0.538	0.537	0.010	-0.3	40.0
3,3-Dichlorobenzidine	0.323	0.322	0.010	-0.2	40.0
Benzo(a)anthracene	1.061	1.041	0.800	-1.9	25.0
Chrysene	0.901	0.927	0.700	2.9	25.0
Bis(2-ethylhexyl)phthalate	0.563	0.530	0.010	-5.8	40.0
Di-n-octyl phthalate	1.273	1.241	0.010	-2.5	40.0
Benzo(b)fluoranthene	1.306	1.132	0.700	-13.3	25.0
Benzo(k)fluoranthene	1.111	1.173	0.700	5.6	25.0
Benzo(a)pyrene	1.126	1.158	0.700	2.9	25.0
Indeno(1,2,3-cd)pyrene	1.055	0.953	0.500	-9.6	25.0
Dibenzo(a,h)anthracene	0.810	0.913	0.400	12.7	25.0
Benzo(g,h,i)perylene	1.068	1.035	0.500	-3.0	25.0
2,3,4,6-Tetrachlorophenol	0.441	0.428	0.100	-3.0	25.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 01:32

Lab File ID: BA041305.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

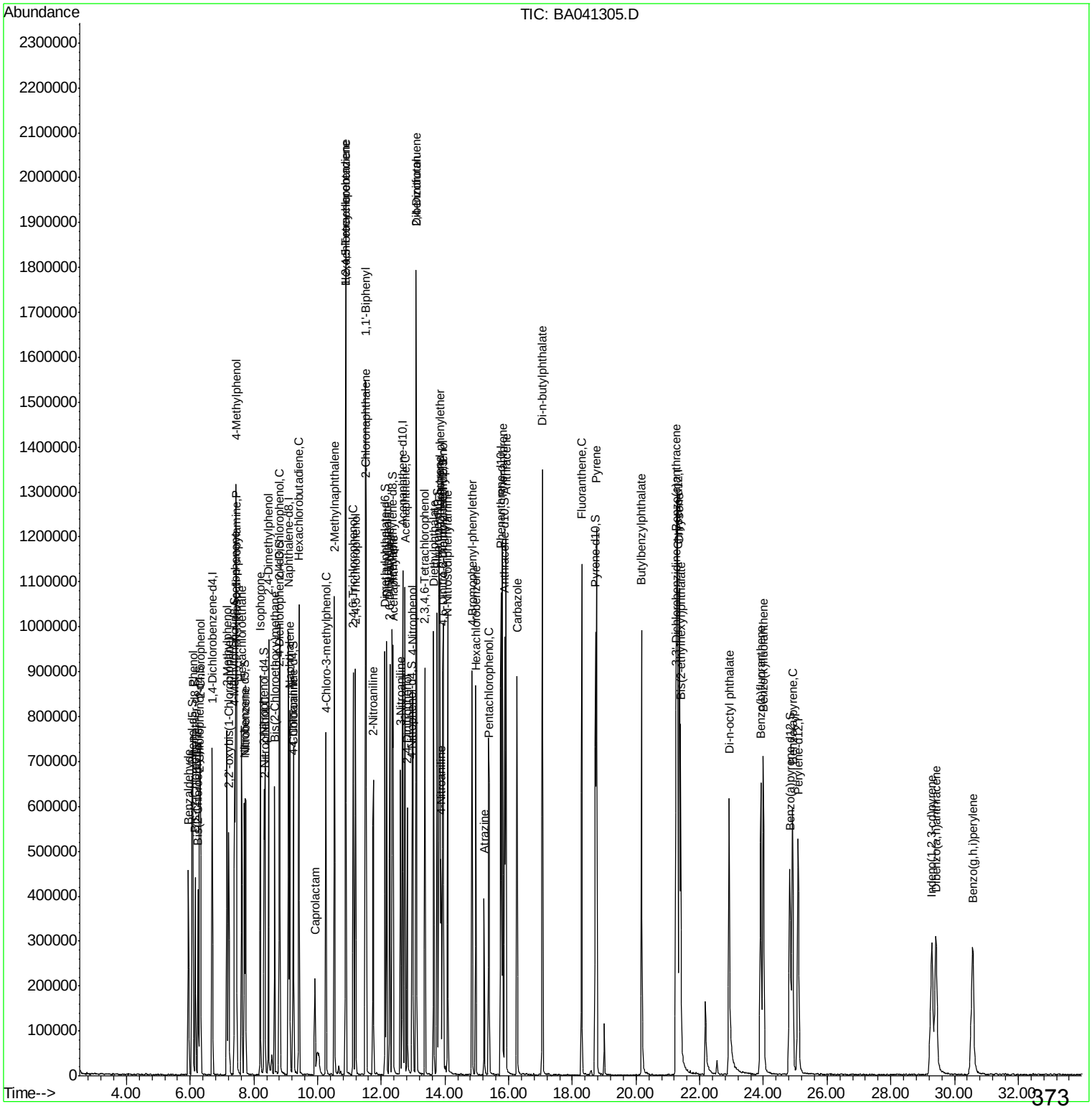
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.191	0.010	-1.7	25.0
Bis(2-Chloroethyl)ether-d8	0.821	0.847	0.010	3.2	25.0
2-Chlorophenol-d4	1.029	1.056	0.010	2.6	25.0
4-Methylphenol-d8	0.822	0.893	0.010	8.7	25.0
Nitrobenzene-d5	0.177	0.179	0.010	0.9	25.0
2-Nitrophenol-d4	0.218	0.210	0.010	-3.5	25.0
2,4-Dichlorophenol-d3	0.403	0.373	0.010	-7.3	25.0
4-Chloroaniline-d4	0.399	0.395	0.010	-1.0	40.0
Dimethylphthalate-d6	1.332	1.327	0.010	-0.4	40.0
Acenaphthylene-d8	1.619	1.693	0.010	4.6	25.0
4-Nitrophenol-d4	0.271	0.281	0.010	3.5	40.0
Fluorene-d10	1.071	1.039	0.010	-3.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.205	0.010	-1.1	40.0
Anthracene-d10	0.957	0.966	0.010	0.9	25.0
Pyrene-d10	0.874	0.841	0.010	-3.8	25.0
Benzo(a)pyrene-d12	1.089	0.969	0.010	-11.0	25.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041305.D
Acq On : 20 Oct 2008 1:32
Operator : QM
Sample : CCC0020BA0055
Misc : SSTD02055
ALS Vial : 14 Sample Multiplier: 1

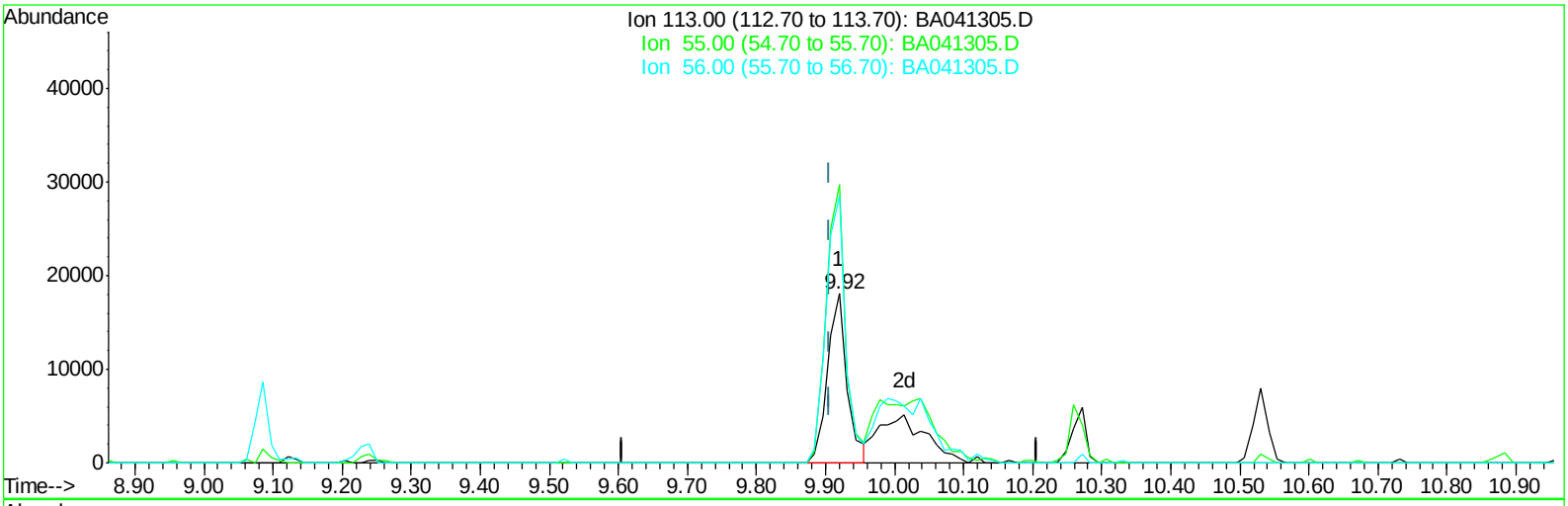
Quant Time: Oct 20 12:17:41 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

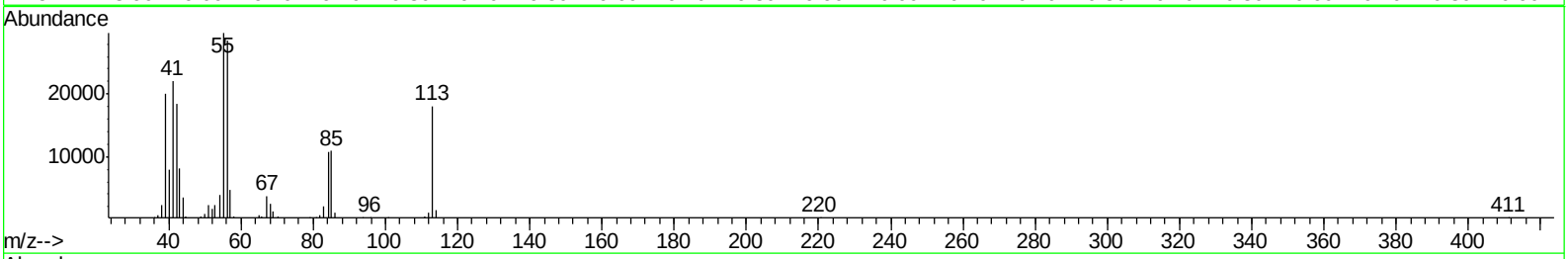


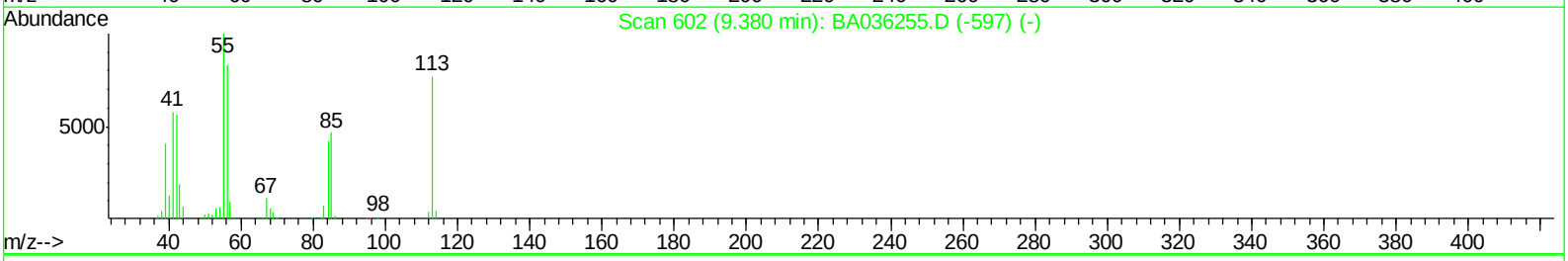
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041305.D
Acq On : 20 Oct 2008 1:32
Operator : QM
Sample : CCC0020BA0055
Misc : SSTD02055
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:22:34 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041305.D

(30) Caprolactam

9.920min (+0.014) 11.72ng/ul

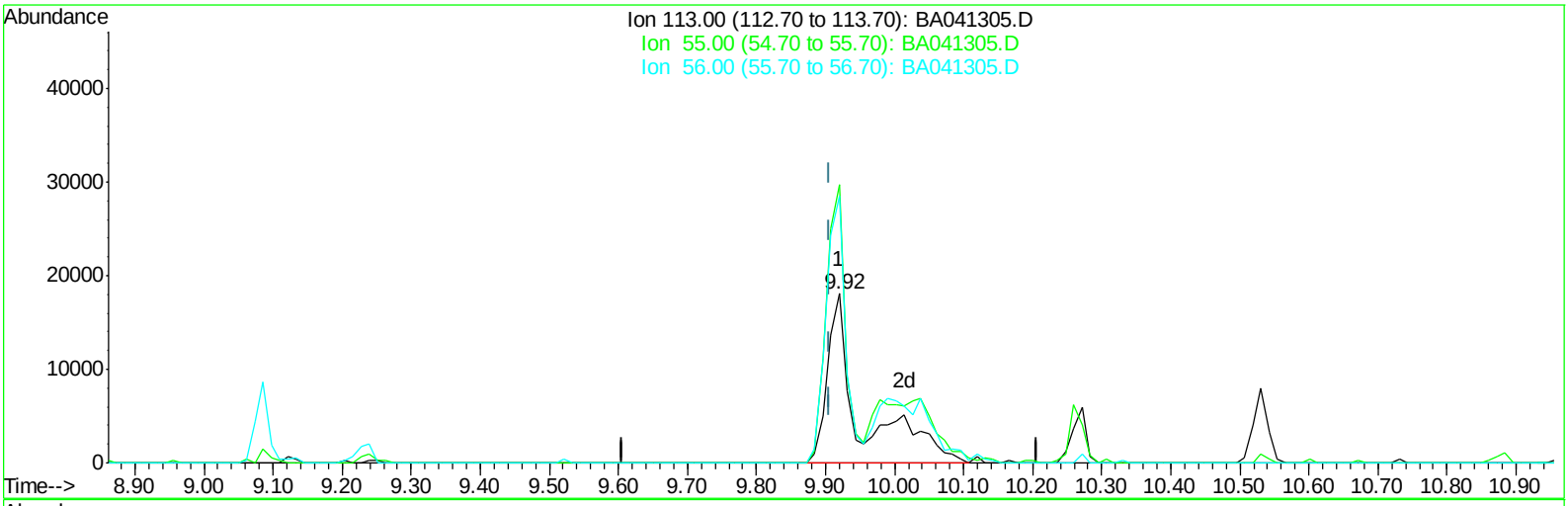
response 35145

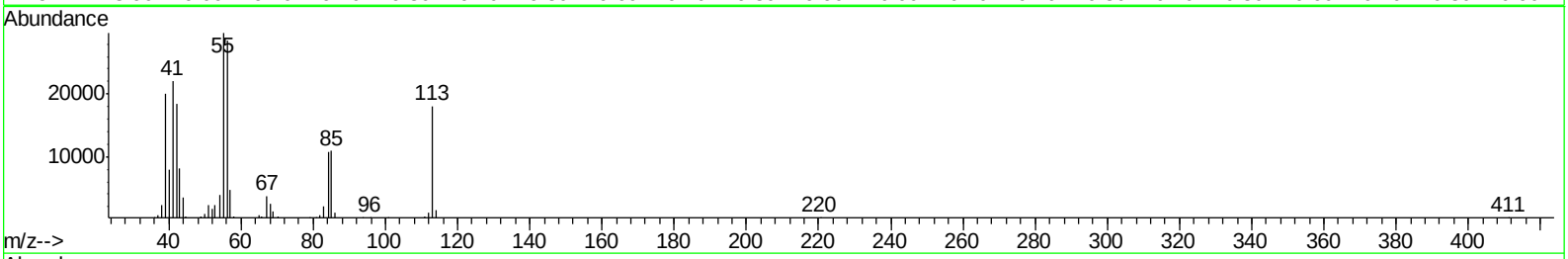
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	164.25
56.00	121.80	157.67#
0.00	0.00	0.00

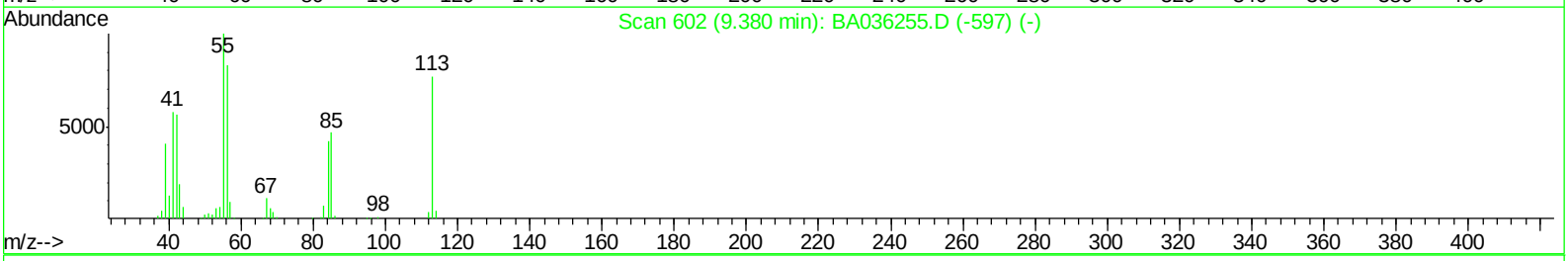
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041305.D
Acq On : 20 Oct 2008 1:32
Operator : QM
Sample : CCC0020BA0055
Misc : SSTD02055
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 11:22:34 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041305.D

(30) Caprolactam

9.920min (+0.014) 19.79ng/ul m

response 59354

Ion	Exp%	Act%
113.00	100	100
55.00	148.50	164.25
56.00	121.80	157.67#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041305.D
Acq On : 20 Oct 2008 1:32
Operator : QM
Sample : CCC0020BA0055
Misc : SSTD02055
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 12:17:41 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	187027	20.00	ng/ul	0.01
16) Naphthalene-d8	9.09	136	604564	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.67	164	407082	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.76	188	739036	20.00	ng/ul	0.00
73) Chrysene-d12	21.31	240	878586	20.00	ng/ul	0.02
81) Perylene-d12	25.09	264	745929	20.00	ng/ul	0.02
System Monitoring Compounds						
3) Phenol-d5	6.06	99	222673	19.66	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	158440	20.64	ng/ul	0.01
7) 2-Chlorophenol-d4	6.29	132	197504	20.52	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	167081	21.75	ng/ul	0.01
17) Nitrobenzene-d5	7.70	128	108006	20.18	ng/ul	0.00
20) 2-Nitrophenol-d4	8.32	143	127131	19.30	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.79	165	225759	18.52	ng/ul	0.00
27) 4-Chloroaniline-d4	9.23	131	238742	19.80	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	540305	19.93	ng/ul	0.00
44) Acenaphthylene-d8	12.34	160	689255	20.91	ng/ul	0.00
49) 4-Nitrophenol-d4	12.97	143	114222	20.67	ng/ul	0.00
55) Fluorene-d10	13.75	176	422887	19.40	ng/ul	0.01
60) 4,6-Dinitro-2-methylphenol	13.93	200	151313	19.78	ng/ul	0.01
68) Anthracene-d10	15.88	188	713852	20.18	ng/ul	0.02
74) Pyrene-d10	18.73	212	738524	19.24	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.83	264	723034	17.80	ng/ul	0.02

Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	126888	25.11	ng/ul	94
4) Phenol	6.08	94	232991	18.96	ng/ul#	87
6) Bis(2-Chloroethyl)ether	6.25	93	201695	20.50	ng/ul	96
8) 2-Chlorophenol	6.32	128	211812	19.46	ng/ul#	92
9) 2-Methylphenol	7.15	108	166416	19.53	ng/ul	89
10) 2,2'-oxybis(1-Chloropropan	7.21	45	289449	19.85	ng/ul	98
12) Acetophenone	7.42	105	298980	19.89	ng/ul	98
13) N-Nitroso-di-n-propylamine	7.46	70	159844	20.86	ng/ul	94
14) 4-Methylphenol	7.45	108	175536	19.67	ng/ul	94
15) Hexachloroethane	7.61	117	124660	20.77	ng/ul	96
18) Nitrobenzene	7.74	77	268407	21.34	ng/ul#	95
19) Isophorone	8.20	82	497896	20.53	ng/ul	98
21) 2-Nitrophenol	8.35	139	140102	19.81	ng/ul#	84
22) 2,4-Dimethylphenol	8.46	107	227874	19.53	ng/ul	99
23) Bis(2-Chloroethoxy)methane	8.65	93	245064	20.55	ng/ul	92
25) 2,4-Dichlorophenol	8.81	162	234444	18.98	ng/ul	93
26) Naphthalene	9.13	128	536749	19.62	ng/ul	98
28) 4-Chloroaniline	9.25	127	155717	19.54	ng/ul	99
29) Hexachlorobutadiene	9.42	225	160490	17.16	ng/ul#	81
30) Caprolactam	9.92	113	59354m	19.79	ng/ul	
31) 4-Chloro-3-methylphenol	10.27	107	209013	19.59	ng/ul	88
32) 2-Methylnaphthalene	10.53	142	391026	18.25	ng/ul	96
34) 1,2,4,5-Tetrachlorobenzene	10.88	216	303933	19.96	ng/ul	98
35) Hexachlorocyclopentadiene	10.88	237	214275	20.28	ng/ul#	98

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041305.D
Acq On : 20 Oct 2008 1:32
Operator : QM
Sample : CCC0020BA0055
Misc : SSTD02055
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 20 12:17:41 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	179513	19.54 ng/ul	94
37) 2,4,5-Trichlorophenol	11.19	196	191188	20.18 ng/ul	90
38) 1,1'-Biphenyl	11.51	154	566075	19.77 ng/ul	95
39) 2-Chloronaphthalene	11.52	162	483866	19.62 ng/ul	95
40) 2-Nitroaniline	11.75	65	155151	20.29 ng/ul	96
42) Dimethylphthalate	12.17	163	581803	19.68 ng/ul	98
43) 2,6-Dinitrotoluene	12.27	165	153722	20.58 ng/ul	98
45) Acenaphthylene	12.38	152	687247	21.22 ng/ul	97
46) 3-Nitroaniline	12.60	138	125718	21.40 ng/ul	99
47) Acenaphthene	12.74	153	448768	21.03 ng/ul	95
48) 2,4-Dinitrophenol	12.81	184	115477	18.83 ng/ul#	85
50) 4-Nitrophenol	12.99	109	132203	19.95 ng/ul	87
51) Dibenzofuran	13.10	168	625567	19.68 ng/ul	100
52) 2,4-Dinitrotoluene	13.10	165	204624	20.95 ng/ul	94
53) 2,3,4,6-Tetrachlorophenol	13.37	232	174218	19.40 ng/ul#	91
54) Diethylphthalate	13.65	149	586956	20.44 ng/ul	99
56) Fluorene	13.81	166	514471	19.60 ng/ul	100
57) 4-Chlorophenyl-phenylether	13.84	204	264884	18.96 ng/ul#	82
58) 4-Nitroaniline	13.87	138	111584	24.36 ng/ul	91
61) 4,6-Dinitro-2-methylphenol	13.94	198	158032	20.09 ng/ul#	82
62) N-Nitrosodiphenylamine	14.09	169	444757	21.09 ng/ul	94
63) 4-Bromophenyl-phenylether	14.86	248	182200	20.06 ng/ul	98
64) Hexachlorobenzene	14.97	284	209708	19.80 ng/ul	92
65) Atrazine	15.23	200	76878	20.65 ng/ul	94
66) Pentachlorophenol	15.39	266	154340	19.07 ng/ul	100
67) Phenanthrene	15.81	178	774368	20.54 ng/ul	98
69) Anthracene	15.92	178	775352	20.43 ng/ul	99
70) Carbazole	16.27	167	719197	20.96 ng/ul	98
71) Di-n-butylphthalate	17.06	149	1080514	21.99 ng/ul	99
72) Fluoranthene	18.29	202	885873	19.80 ng/ul#	97
75) Pyrene	18.76	202	921684	18.91 ng/ul	99
76) Butylbenzylphthalate	20.18	149	471485	19.96 ng/ul	95
77) 3,3'-Dichlorobenzidine	21.25	252	283157	19.93 ng/ul#	97
78) Benzo(a)anthracene	21.27	228	914360	19.62 ng/ul	99
79) Bis(2-ethylhexyl)phthalate	21.40	149	466044	18.86 ng/ul	98
80) Chrysene	21.35	228	814202	20.58 ng/ul	96
82) Di-n-octyl phthalate	22.92	149	925435	19.50 ng/ul	100
83) Benzo(b)fluoranthene	23.92	252	844687	17.34 ng/ul	98
84) Benzo(k)fluoranthene	24.00	252	874780	21.11 ng/ul	97
86) Benzo(a)pyrene	24.92	252	864064	20.57 ng/ul	94
87) Indeno(1,2,3-cd)pyrene	29.29	276	711106	18.07 ng/ul#	93
88) Dibenzo(a,h)anthracene	29.42	278	680814	22.53 ng/ul	93
89) Benzo(g,h,i)perylene	30.57	276	772405	19.40 ng/ul	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 11:07

Lab File ID: BA041319.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.639	0.010	18.3	50.0
Phenol	1.314	1.251	0.010	-4.8	50.0
Bis(2-Chloroethyl)ether	1.052	1.035	0.010	-1.6	50.0
2-Chlorophenol	1.164	1.100	0.010	-5.5	50.0
2-Methylphenol	0.911	0.887	0.010	-2.6	50.0
2,2-oxybis(1-Chloropropane)	1.559	1.595	0.010	2.3	50.0
Acetophenone	1.607	1.553	0.010	-3.3	50.0
4-Methylphenol	0.954	0.933	0.010	-2.2	50.0
N-Nitroso-di-n-propylamine	0.819	0.781	0.010	-4.6	50.0
Hexachloroethane	0.642	0.609	0.010	-5.1	50.0
Nitrobenzene	0.416	0.412	0.010	-1.0	50.0
Isophorone	0.802	0.760	0.010	-5.3	50.0
2-Nitrophenol	0.234	0.231	0.010	-1.3	50.0
2,4-Dimethylphenol	0.386	0.398	0.010	3.0	50.0
Bis(2-Chloroethoxy)methane	0.395	0.374	0.010	-5.4	50.0
2,4-Dichlorophenol	0.409	0.390	0.010	-4.6	50.0
Naphthalene	0.905	0.935	0.010	3.3	50.0
4-Chloroaniline	0.264	0.271	0.010	2.5	50.0
Hexachlorobutadiene	0.309	0.294	0.010	-4.9	50.0
Caprolactam	0.099	0.103	0.010	4.4	50.0
4-Chloro-3-methylphenol	0.353	0.344	0.010	-2.7	50.0
2-Methylnaphthalene	0.709	0.692	0.010	-2.4	50.0
Hexachlorocyclopentadiene	0.519	0.260	0.010	-49.8	50.0
2,4,6-Trichlorophenol	0.451	0.426	0.010	-5.6	50.0
2,4,5-Trichlorophenol	0.466	0.430	0.010	-7.8	50.0
1,1-Biphenyl	1.407	1.256	0.010	-10.8	50.0
2-Chloronaphthalene	1.211	1.100	0.010	-9.2	50.0
2-Nitroaniline	0.376	0.326	0.010	-13.3	50.0
Dimethylphthalate	1.452	1.240	0.010	-14.6	50.0
2,6-Dinitrotoluene	0.367	0.341	0.010	-7.1	50.0
Acenaphthylene	1.591	1.409	0.010	-11.4	50.0
3-Nitroaniline	0.289	0.277	0.010	-4.2	50.0
Acenaphthene	1.048	0.902	0.010	-13.9	50.0
2,4-Dinitrophenol	0.301	0.147	0.010	-51.3	50.0
4-Nitrophenol	0.326	0.281	0.010	-13.8	50.0
Dibenzofuran	1.562	1.423	0.010	-8.9	50.0
2,4-Dinitrotoluene	0.480	0.413	0.010	-14.0	50.0
Diethylphthalate	1.411	1.275	0.010	-9.6	50.0
Fluorene	1.290	1.216	0.010	-5.7	50.0
4-Chlorophenyl-phenylether	0.686	0.601	0.010	-12.3	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 11:07

Lab File ID: BA041319.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.277	0.010	23.0	50.0
4,6-Dinitro-2-methylphenol	0.213	0.126	0.010	-41.0	50.0
N-Nitrosodiphenylamine[1]	0.571	0.582	0.010	1.9	50.0
1,2,4,5-Tetrachlorobenzene	0.748	0.686	0.010	-8.3	50.0
4-Bromophenyl-phenylether	0.246	0.230	0.010	-6.4	50.0
Hexachlorobenzene	0.287	0.276	0.010	-3.9	50.0
Atrazine	0.101	0.099	0.010	-1.9	50.0
Pentachlorophenol	0.219	0.199	0.010	-9.0	50.0
Phenanthrene	1.020	1.057	0.010	3.6	50.0
Anthracene	1.027	1.075	0.010	4.7	50.0
Carbazole	0.929	0.930	0.010	0.1	50.0
Di-n-butylphthalate	1.330	1.351	0.010	1.6	50.0
Fluoranthene	1.211	1.156	0.010	-4.6	50.0
Pyrene	1.110	1.129	0.010	1.7	50.0
Butylbenzylphthalate	0.538	0.570	0.010	6.0	50.0
3,3-Dichlorobenzidine	0.323	0.345	0.010	6.9	50.0
Benzo(a)anthracene	1.061	1.037	0.010	-2.3	50.0
Chrysene	0.901	0.891	0.010	-1.1	50.0
Bis(2-ethylhexyl)phthalate	0.563	0.597	0.010	6.0	50.0
Di-n-octyl phthalate	1.273	1.838	0.010	44.3	50.0
Benzo(b)fluoranthene	1.306	1.461	0.010	11.9	50.0
Benzo(k)fluoranthene	1.111	1.292	0.010	16.3	50.0
Benzo(a)pyrene	1.126	1.167	0.010	3.6	50.0
Indeno(1,2,3-cd)pyrene	1.055	0.740	0.010	-29.8	50.0
Dibenzo(a,h)anthracene	0.810	0.639	0.010	-21.2	50.0
Benzo(g,h,i)perylene	1.068	0.657	0.010	-38.5	50.0
2,3,4,6-Tetrachlorophenol	0.441	0.429	0.010	-2.7	50.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 11:07

Lab File ID: BA041319.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

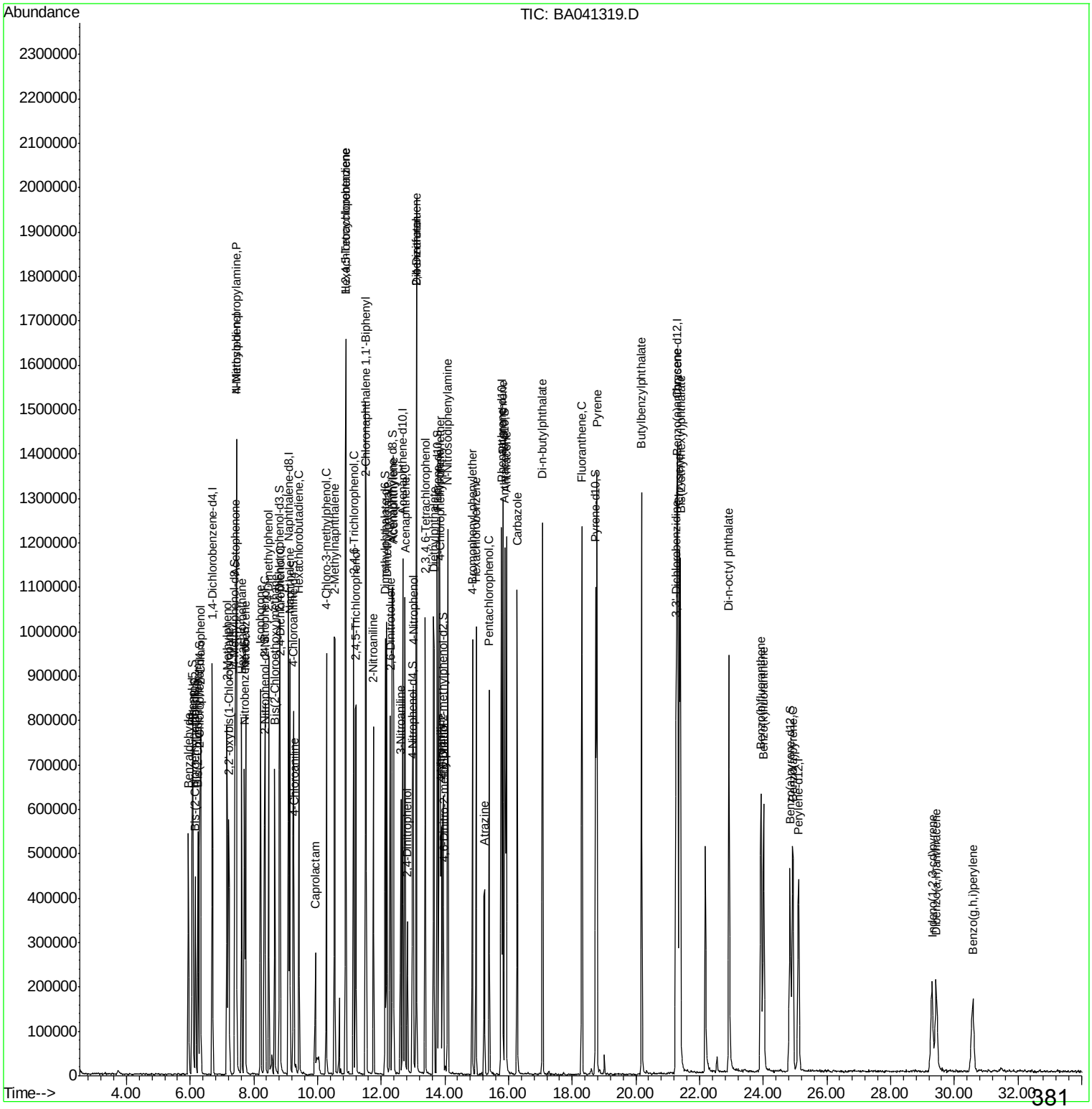
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.169	0.010	-3.5	50.0
Bis(2-Chloroethyl)ether-d8	0.821	0.787	0.010	-4.1	50.0
2-Chlorophenol-d4	1.029	1.005	0.010	-2.4	50.0
4-Methylphenol-d8	0.822	0.798	0.010	-2.9	50.0
Nitrobenzene-d5	0.177	0.173	0.010	-2.3	50.0
2-Nitrophenol-d4	0.218	0.212	0.010	-3.0	50.0
2,4-Dichlorophenol-d3	0.403	0.395	0.010	-2.0	50.0
4-Chloroaniline-d4	0.399	0.396	0.010	-0.8	50.0
Dimethylphthalate-d6	1.332	1.285	0.010	-3.5	50.0
Acenaphthylene-d8	1.619	1.487	0.010	-8.2	50.0
4-Nitrophenol-d4	0.271	0.243	0.010	-10.2	50.0
Fluorene-d10	1.071	0.970	0.010	-9.4	50.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.119	0.010	-42.4	50.0
Anthracene-d10	0.957	0.950	0.010	-0.7	50.0
Pyrene-d10	0.874	0.874	0.010	0.0	50.0
Benzo(a)pyrene-d12	1.089	1.091	0.010	0.2	50.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041319.D
Acq On : 20 Oct 2008 11:07
Operator : QM
Sample : CCC0020BA0057
Misc : SSTD02057
ALS Vial : 2 Sample Multiplier: 1

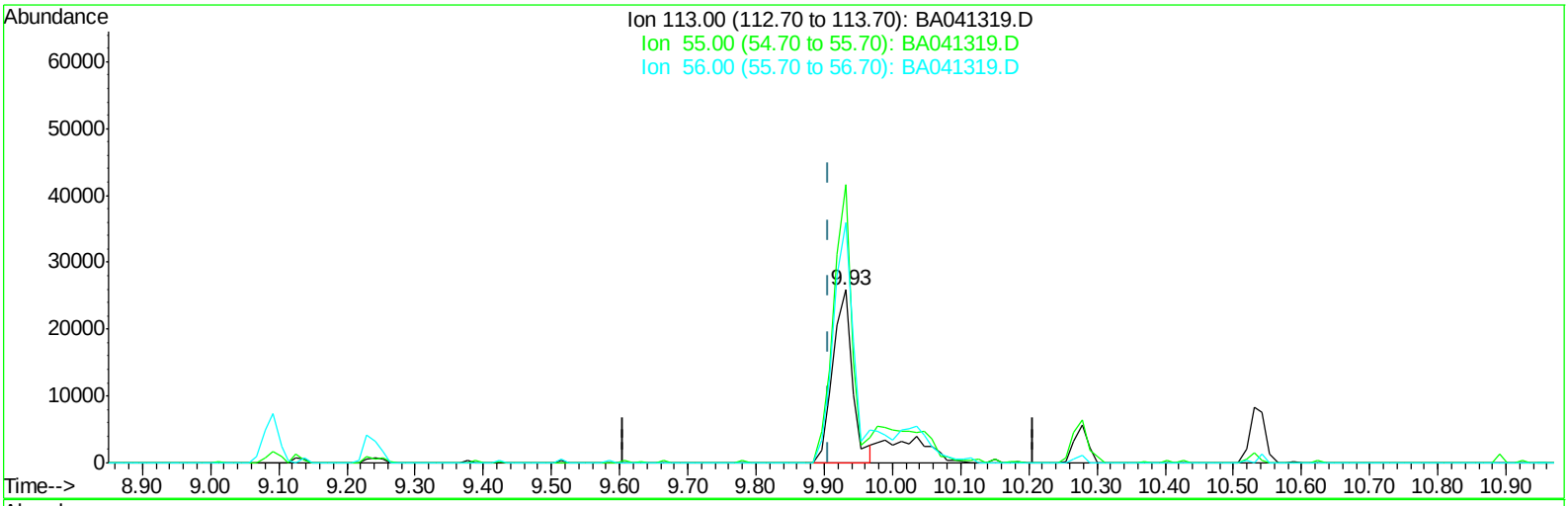
Quant Time: Oct 20 13:04:30 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

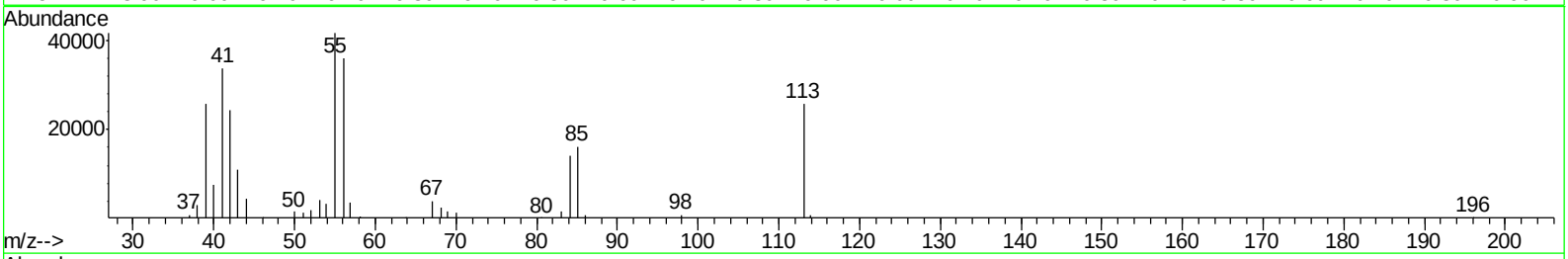


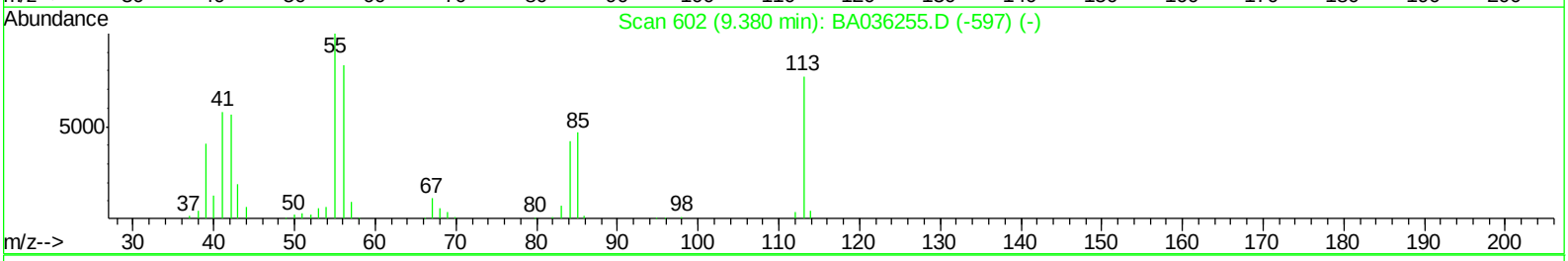
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041319.D
Acq On : 20 Oct 2008 11:07
Operator : QM
Sample : CCC0020BA0057
Misc : SSTD02057
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:49:26 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041319.D

(30) Caprolactam

9.931min (+0.025) 15.59ng/ul

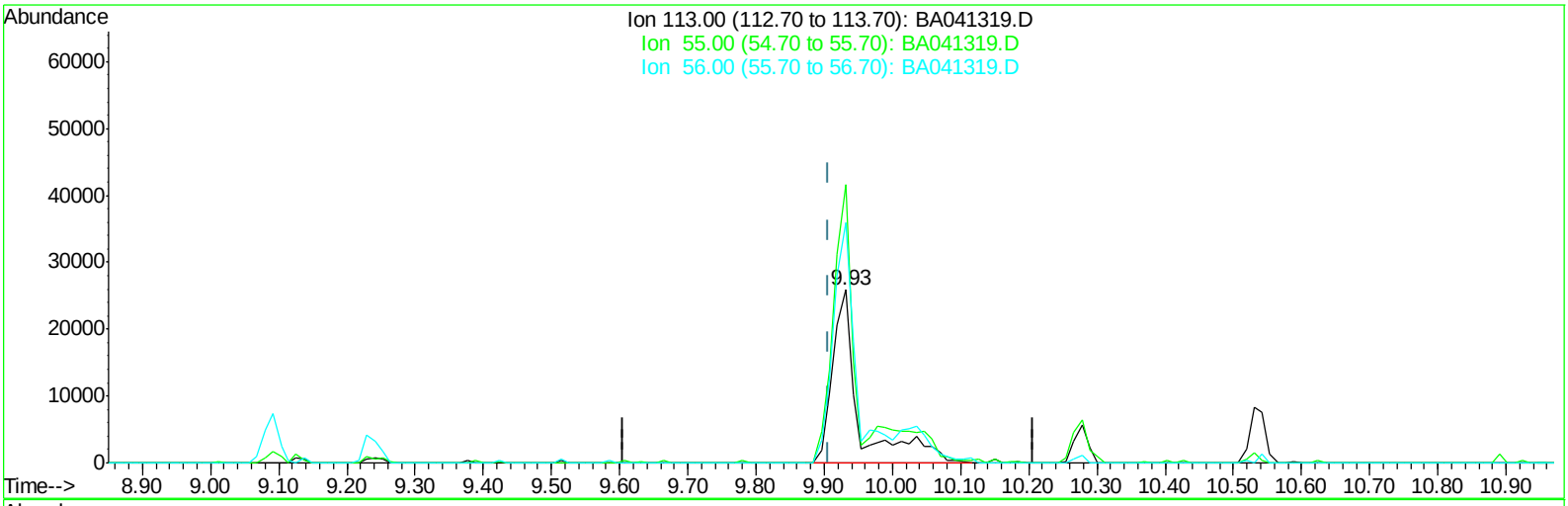
response 52119

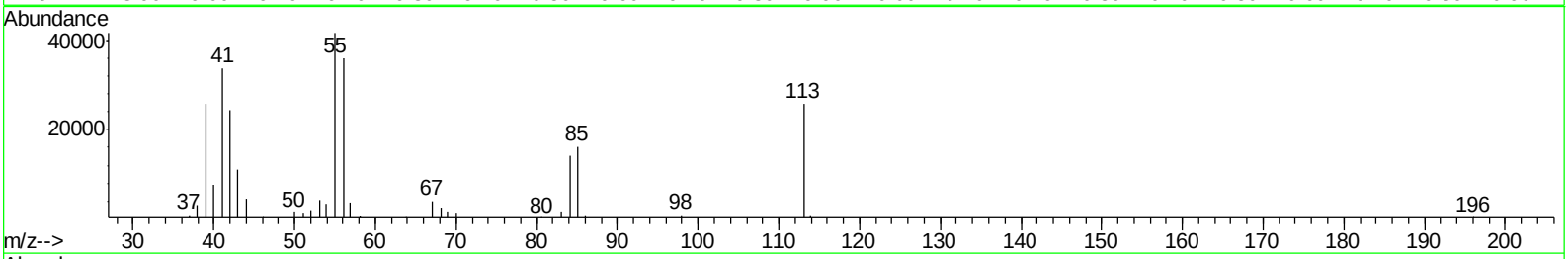
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	160.87
56.00	121.80	139.22
0.00	0.00	0.00

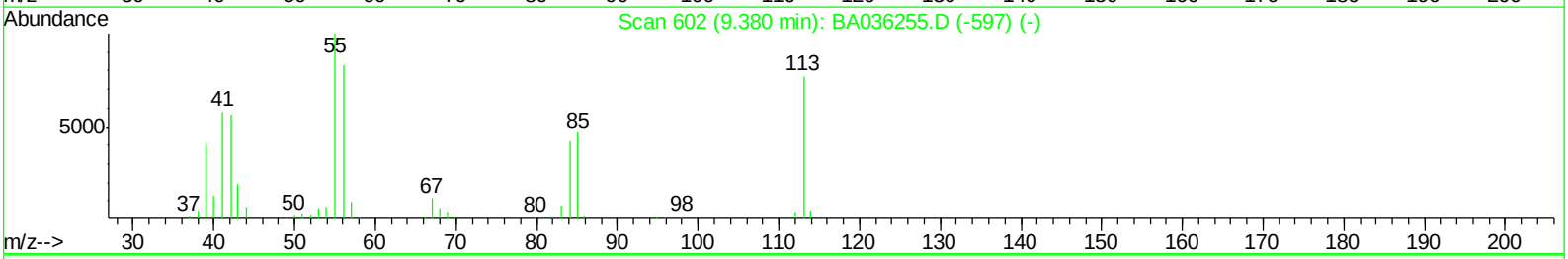
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041319.D
Acq On : 20 Oct 2008 11:07
Operator : QM
Sample : CCC0020BA0057
Misc : SSTD02057
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:49:26 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041319.D

(30) Caprolactam

9.931min (+0.025) 20.83ng/ul m

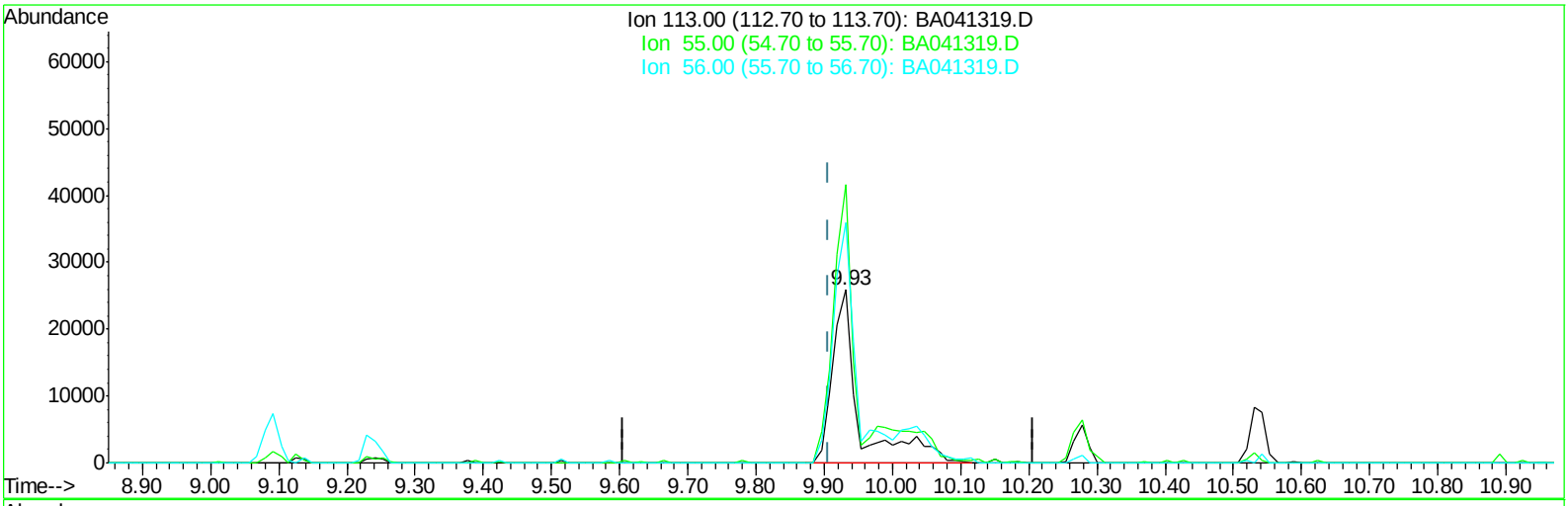
response 69629

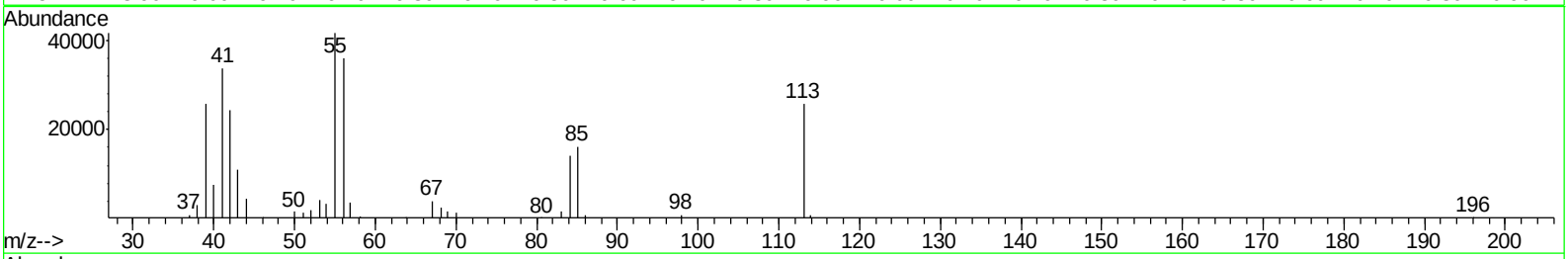
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	160.87
56.00	121.80	139.22
0.00	0.00	0.00

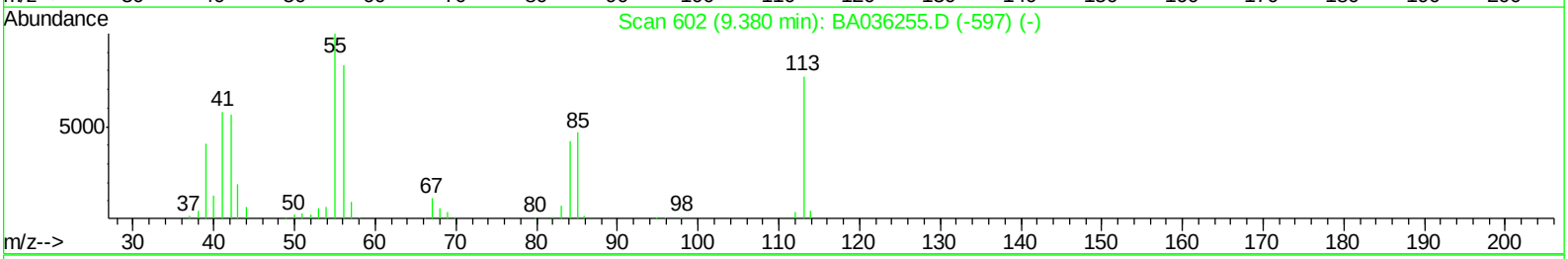
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041319.D
Acq On : 20 Oct 2008 11:07
Operator : QM
Sample : CCC0020BA0057
Misc : SSTD02057
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 11:49:26 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041319.D

(30) Caprolactam

9.931min (+0.025) 20.83ng/ul m

response 69629

Ion	Exp%	Act%
113.00	100	100
55.00	148.50	160.87
56.00	121.80	139.22
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041319.D
Acq On : 20 Oct 2008 11:07
Operator : QM
Sample : CCC0020BA0057
Misc : SSTD02057
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 13:04:30 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	214770	20.00	ng/ul	0.01
16) Naphthalene-d8	9.09	136	673825	20.00	ng/ul	0.01
33) Acenaphthene-d10	12.68	164	513815	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.77	188	860515	20.00	ng/ul	0.02
73) Chrysene-d12	21.31	240	972917	20.00	ng/ul	0.02
81) Perylene-d12	25.11	264	600393	20.00	ng/ul	0.03
System Monitoring Compounds						
3) Phenol-d5	6.07	99	251047	19.31	ng/ul	0.01
5) Bis-(2-Chloroethyl)ether-d	6.16	67	169105	19.18	ng/ul	0.01
7) 2-Chlorophenol-d4	6.30	132	215781	19.53	ng/ul	0.01
11) 4-Methylphenol-d8	7.41	113	171414	19.43	ng/ul	0.02
17) Nitrobenzene-d5	7.71	128	116551	19.54	ng/ul	0.01
20) 2-Nitrophenol-d4	8.33	143	142552	19.41	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.80	165	266097	19.58	ng/ul	0.02
27) 4-Chloroaniline-d4	9.24	131	266689	19.84	ng/ul	0.02
41) Dimethylphthalate-d6	12.12	166	660311	19.30	ng/ul	0.00
44) Acenaphthylene-d8	12.35	160	764033	18.36	ng/ul	0.01
49) 4-Nitrophenol-d4	12.98	143	125046	17.93	ng/ul	0.02
55) Fluorene-d10	13.76	176	498572	18.12	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.93	200	102686	11.53	ng/ul	0.02
68) Anthracene-d10	15.89	188	817861	19.85	ng/ul	0.03
74) Pyrene-d10	18.74	212	850086	20.00	ng/ul	0.02
85) Benzo(a)pyrene-d12	24.84	264	654845	20.03	ng/ul	0.03
Target Compounds						Qvalue
2) Benzaldehyde	5.95	77	137183	23.64	ng/ul	86
4) Phenol	6.10	94	268629	19.04	ng/ul	98
6) Bis(2-Chloroethyl)ether	6.25	93	222287	19.68	ng/ul	95
8) 2-Chlorophenol	6.33	128	236268	18.90	ng/ul#	95
9) 2-Methylphenol	7.16	108	190510	19.47	ng/ul	88
10) 2,2'-oxybis(1-Chloropropan	7.21	45	342601	20.46	ng/ul	97
12) Acetophenone	7.43	105	333593	19.33	ng/ul	95
13) N-Nitroso-di-n-propylamine	7.45	70	167769	19.07	ng/ul#	98
14) 4-Methylphenol	7.45	108	200308	19.55	ng/ul	97
15) Hexachloroethane	7.61	117	130856	18.99	ng/ul	96
18) Nitrobenzene	7.74	77	277635	19.81	ng/ul	96
19) Isophorone	8.20	82	511931	18.94	ng/ul	100
21) 2-Nitrophenol	8.35	139	155547	19.73	ng/ul	97
22) 2,4-Dimethylphenol	8.47	107	267987	20.60	ng/ul	89
23) Bis(2-Chloroethoxy)methane	8.65	93	251828	18.94	ng/ul	96
25) 2,4-Dichlorophenol	8.83	162	262906	19.10	ng/ul	92
26) Naphthalene	9.14	128	629716	20.65	ng/ul	98
28) 4-Chloroaniline	9.26	127	182273	20.53	ng/ul	92
29) Hexachlorobutadiene	9.42	225	197913	18.98	ng/ul	91
30) Caprolactam	9.93	113	69629m	20.83	ng/ul	
31) 4-Chloro-3-methylphenol	10.28	107	231471	19.47	ng/ul	95
32) 2-Methylnaphthalene	10.54	142	466377	19.53	ng/ul	97
34) 1,2,4,5-Tetrachlorobenzene	10.89	216	352335	18.33	ng/ul#	95
35) Hexachlorocyclopentadiene	10.89	237	133838	10.03	ng/ul	96

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041319.D
Acq On : 20 Oct 2008 11:07
Operator : QM
Sample : CCC0020BA0057
Misc : SSTD02057
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 13:04:30 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.13	196	218774	18.87 ng/ul	89
37) 2,4,5-Trichlorophenol	11.20	196	220778	18.46 ng/ul	97
38) 1,1'-Biphenyl	11.51	154	645128	17.85 ng/ul	98
39) 2-Chloronaphthalene	11.53	162	564996	18.15 ng/ul	99
40) 2-Nitroaniline	11.76	65	167440	17.35 ng/ul	96
42) Dimethylphthalate	12.18	163	637328	17.08 ng/ul	97
43) 2,6-Dinitrotoluene	12.28	165	175228	18.59 ng/ul#	96
45) Acenaphthylene	12.38	152	724174	17.72 ng/ul	96
46) 3-Nitroaniline	12.62	138	142193	19.18 ng/ul#	93
47) Acenaphthene	12.75	153	463614	17.21 ng/ul	96
48) 2,4-Dinitrophenol	12.82	184	75371	9.74 ng/ul	93
50) 4-Nitrophenol	13.00	109	144463	17.27 ng/ul	90
51) Dibenzofuran	13.11	168	731131	18.22 ng/ul	94
52) 2,4-Dinitrotoluene	13.11	165	212187	17.21 ng/ul	94
53) 2,3,4,6-Tetrachlorophenol	13.38	232	220569	19.46 ng/ul#	93
54) Diethylphthalate	13.65	149	655081	18.07 ng/ul	100
56) Fluorene	13.82	166	625006	18.86 ng/ul	97
57) 4-Chlorophenyl-phenylether	13.85	204	309027	17.52 ng/ul	96
58) 4-Nitroaniline	13.89	138	142225	24.60 ng/ul	86
61) 4,6-Dinitro-2-methylphenol	13.96	198	108150	11.81 ng/ul#	95
62) N-Nitrosodiphenylamine	14.09	169	500785	20.40 ng/ul	96
63) 4-Bromophenyl-phenylether	14.86	248	198228	18.74 ng/ul	95
64) Hexachlorobenzene	14.98	284	237457	19.26 ng/ul	97
65) Atrazine	15.24	200	85236	19.66 ng/ul	92
66) Pentachlorophenol	15.39	266	171519	18.20 ng/ul	95
67) Phenanthrene	15.82	178	909730	20.72 ng/ul	100
69) Anthracene	15.93	178	925189	20.94 ng/ul	99
70) Carbazole	16.28	167	799914	20.02 ng/ul	95
71) Di-n-butylphthalate	17.06	149	1162775	20.32 ng/ul	99
72) Fluoranthene	18.30	202	994448	19.09 ng/ul#	96
75) Pyrene	18.77	202	1098001	20.34 ng/ul#	97
76) Butylbenzylphthalate	20.18	149	554587	21.20 ng/ul#	93
77) 3,3'-Dichlorobenzidine	21.25	252	335898	21.35 ng/ul#	97
78) Benzo(a)anthracene	21.29	228	1008684	19.55 ng/ul	97
79) Bis(2-ethylhexyl)phthalate	21.40	149	580825	21.22 ng/ul	95
80) Chrysene	21.37	228	866666	19.78 ng/ul	95
82) Di-n-octyl phthalate	22.92	149	1103253	28.88 ng/ul	100
83) Benzo(b)fluoranthene	23.93	252	877077	22.36 ng/ul	99
84) Benzo(k)fluoranthene	24.02	252	775770	23.25 ng/ul	99
86) Benzo(a)pyrene	24.92	252	700375	20.72 ng/ul#	92
87) Indeno(1,2,3-cd)pyrene	29.30	276	444493	14.03 ng/ul#	93
88) Dibenzo(a,h)anthracene	29.43	278	383429	15.76 ng/ul#	90
89) Benzo(g,h,i)perylene	30.58	276	394384	12.31 ng/ul#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 15:18

Lab File ID: BA041323.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.698	0.010	29.2	40.0
Phenol	1.314	1.243	0.800	-5.4	25.0
Bis(2-Chloroethyl)ether	1.052	0.949	0.700	-9.8	25.0
2-Chlorophenol	1.164	1.134	0.800	-2.5	25.0
2-Methylphenol	0.911	0.877	0.700	-3.8	25.0
2,2-oxybis(1-Chloropropane)	1.559	1.514	0.010	-2.9	40.0
Acetophenone	1.607	1.469	0.010	-8.6	40.0
4-Methylphenol	0.954	0.864	0.600	-9.4	25.0
N-Nitroso-di-n-propylamine	0.819	0.821	0.500	0.2	25.0
Hexachloroethane	0.642	0.637	0.300	-0.8	25.0
Nitrobenzene	0.416	0.436	0.200	4.8	25.0
Isophorone	0.802	0.852	0.400	6.2	25.0
2-Nitrophenol	0.234	0.231	0.100	-1.1	25.0
2,4-Dimethylphenol	0.386	0.371	0.200	-4.0	25.0
Bis(2-Chloroethoxy)methane	0.395	0.406	0.300	2.9	25.0
2,4-Dichlorophenol	0.409	0.408	0.200	-0.2	25.0
Naphthalene	0.905	0.895	0.700	-1.1	25.0
4-Chloroaniline	0.264	0.260	0.010	-1.4	40.0
Hexachlorobutadiene	0.309	0.319	0.010	3.3	40.0
Caprolactam	0.099	0.110	0.010	10.7	40.0
4-Chloro-3-methylphenol	0.353	0.351	0.200	-0.4	25.0
2-Methylnaphthalene	0.709	0.660	0.400	-6.8	25.0
Hexachlorocyclopentadiene	0.519	0.520	0.010	0.2	40.0
2,4,6-Trichlorophenol	0.451	0.444	0.200	-1.7	25.0
2,4,5-Trichlorophenol	0.466	0.514	0.200	10.3	25.0
1,1-Biphenyl	1.407	1.406	0.010	-0.1	40.0
2-Chloronaphthalene	1.211	1.240	0.800	2.4	25.0
2-Nitroaniline	0.376	0.416	0.010	10.5	40.0
Dimethylphthalate	1.452	1.473	0.010	1.4	40.0
2,6-Dinitrotoluene	0.367	0.367	0.200	0.0	25.0
Acenaphthylene	1.591	1.593	0.900	0.1	25.0
3-Nitroaniline	0.289	0.311	0.010	7.5	40.0
Acenaphthene	1.048	1.071	0.900	2.2	25.0
2,4-Dinitrophenol	0.301	0.246	0.010	-18.4	40.0
4-Nitrophenol	0.326	0.335	0.010	2.7	40.0
Dibenzofuran	1.562	1.561	0.800	-0.1	25.0
2,4-Dinitrotoluene	0.480	0.476	0.200	-0.8	25.0
Diethylphthalate	1.411	1.562	0.010	10.7	40.0
Fluorene	1.290	1.372	0.900	6.4	25.0
4-Chlorophenyl-phenylether	0.686	0.732	0.400	6.7	25.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 15:18

Lab File ID: BA041323.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.326	0.010	44.7	40.0
4,6-Dinitro-2-methylphenol	0.213	0.199	0.010	-6.6	40.0
N-Nitrosodiphenylamine[1]	0.571	0.508	0.010	-11.1	40.0
1,2,4,5-Tetrachlorobenzene	0.748	0.831	0.010	11.1	40.0
4-Bromophenyl-phenylether	0.246	0.239	0.100	-2.8	25.0
Hexachlorobenzene	0.287	0.300	0.100	4.6	25.0
Atrazine	0.101	0.108	0.010	6.5	40.0
Pentachlorophenol	0.219	0.213	0.050	-2.8	25.0
Phenanthrene	1.020	0.996	0.700	-2.4	25.0
Anthracene	1.027	0.969	0.700	-5.7	25.0
Carbazole	0.929	0.910	0.010	-2.0	40.0
Di-n-butylphthalate	1.330	1.321	0.010	-0.7	40.0
Fluoranthene	1.211	1.199	0.600	-1.0	25.0
Pyrene	1.110	1.115	0.600	0.4	25.0
Butylbenzylphthalate	0.538	0.529	0.010	-1.7	40.0
3,3-Dichlorobenzidine	0.323	0.329	0.010	2.0	40.0
Benzo(a)anthracene	1.061	1.077	0.800	1.5	25.0
Chrysene	0.901	0.933	0.700	3.5	25.0
Bis(2-ethylhexyl)phthalate	0.563	0.584	0.010	3.8	40.0
Di-n-octyl phthalate	1.273	1.254	0.010	-1.5	40.0
Benzo(b)fluoranthene	1.306	1.219	0.700	-6.7	25.0
Benzo(k)fluoranthene	1.111	1.112	0.700	0.1	25.0
Benzo(a)pyrene	1.126	1.141	0.700	1.3	25.0
Indeno(1,2,3-cd)pyrene	1.055	1.105	0.500	4.8	25.0
Dibenzo(a,h)anthracene	0.810	0.782	0.400	-3.4	25.0
Benzo(g,h,i)perylene	1.068	0.979	0.500	-8.3	25.0
2,3,4,6-Tetrachlorophenol	0.441	0.492	0.100	11.5	25.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/20/2008 Time: 15:18

Lab File ID: BA041323.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

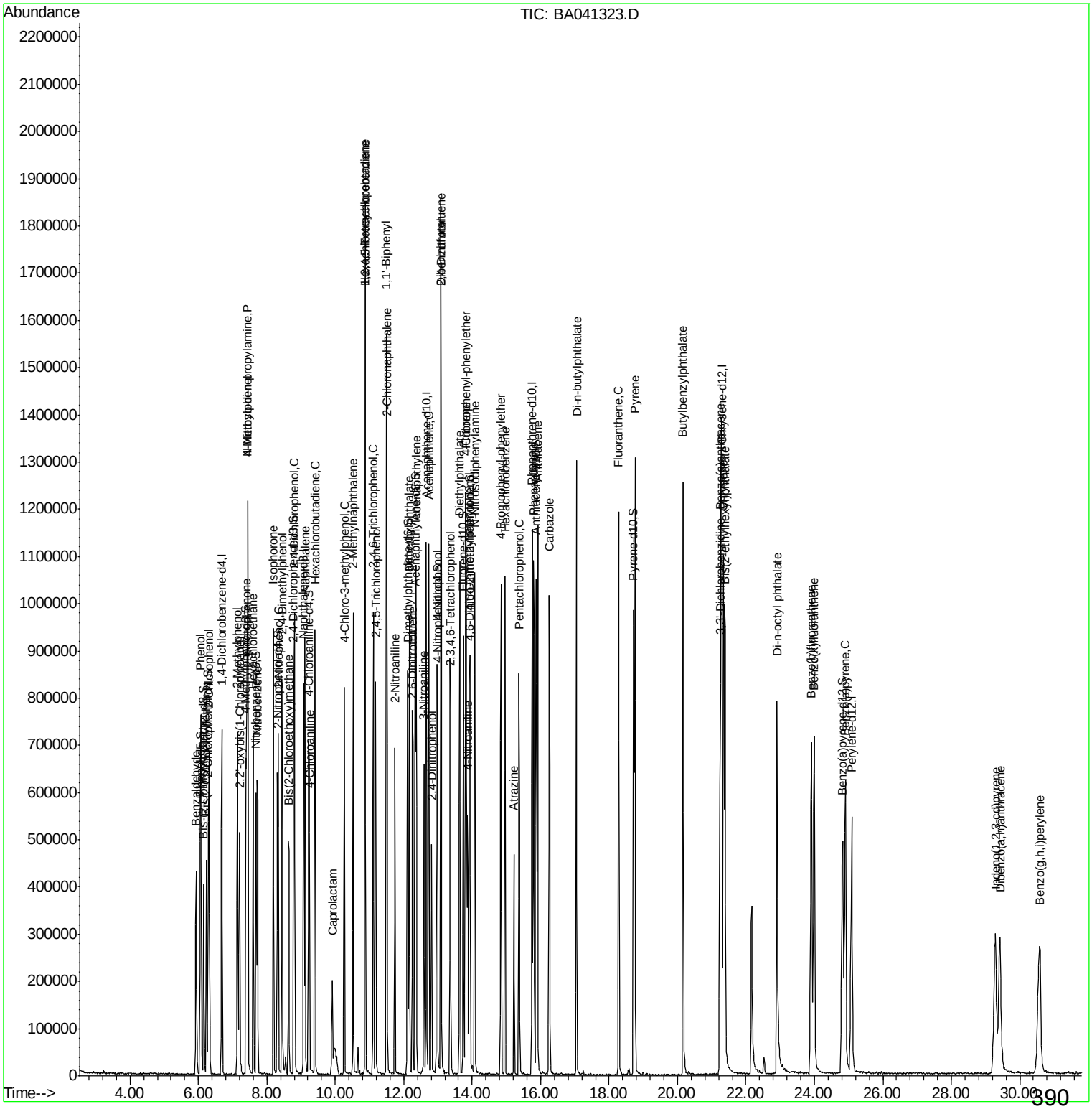
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.111	0.010	-8.2	25.0
Bis(2-Chloroethyl)ether-d8	0.821	0.744	0.010	-9.4	25.0
2-Chlorophenol-d4	1.029	0.944	0.010	-8.2	25.0
4-Methylphenol-d8	0.822	0.805	0.010	-2.0	25.0
Nitrobenzene-d5	0.177	0.165	0.010	-7.0	25.0
2-Nitrophenol-d4	0.218	0.218	0.010	-0.1	25.0
2,4-Dichlorophenol-d3	0.403	0.386	0.010	-4.2	25.0
4-Chloroaniline-d4	0.399	0.399	0.010	0.0	40.0
Dimethylphthalate-d6	1.332	1.471	0.010	10.4	40.0
Acenaphthylene-d8	1.619	1.689	0.010	4.3	25.0
4-Nitrophenol-d4	0.271	0.269	0.010	-0.7	40.0
Fluorene-d10	1.071	1.060	0.010	-1.0	25.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.172	0.010	-16.8	40.0
Anthracene-d10	0.957	0.900	0.010	-6.0	25.0
Pyrene-d10	0.874	0.894	0.010	2.2	25.0
Benzo(a)pyrene-d12	1.089	1.006	0.010	-7.6	25.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

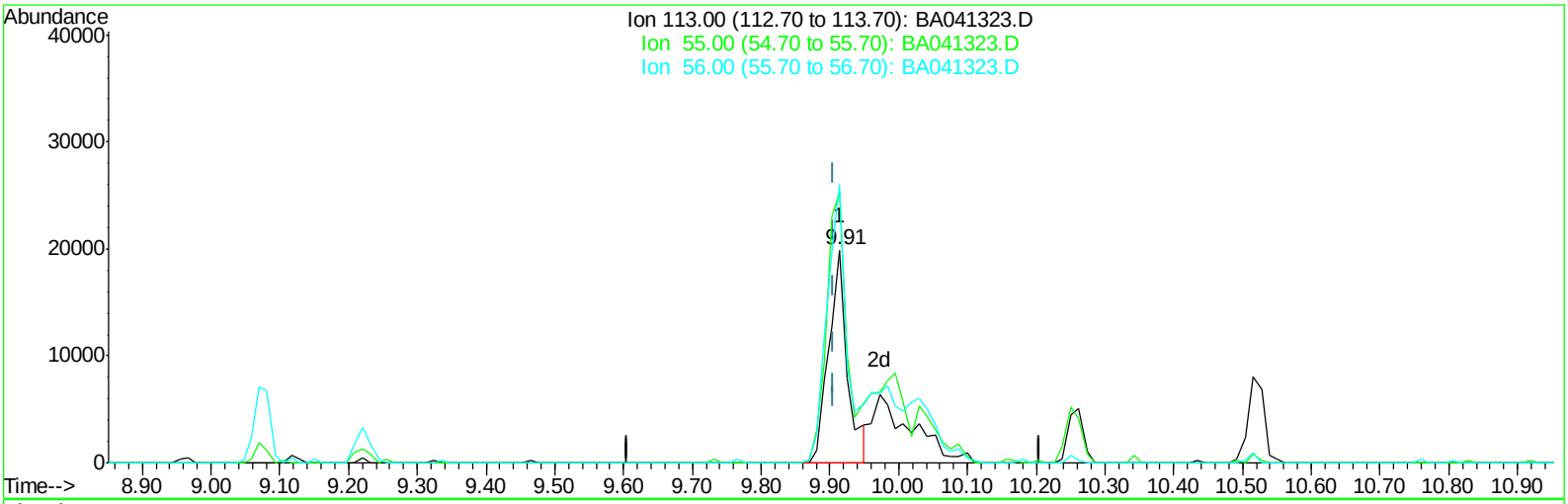
Quant Time: Oct 20 16:34:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

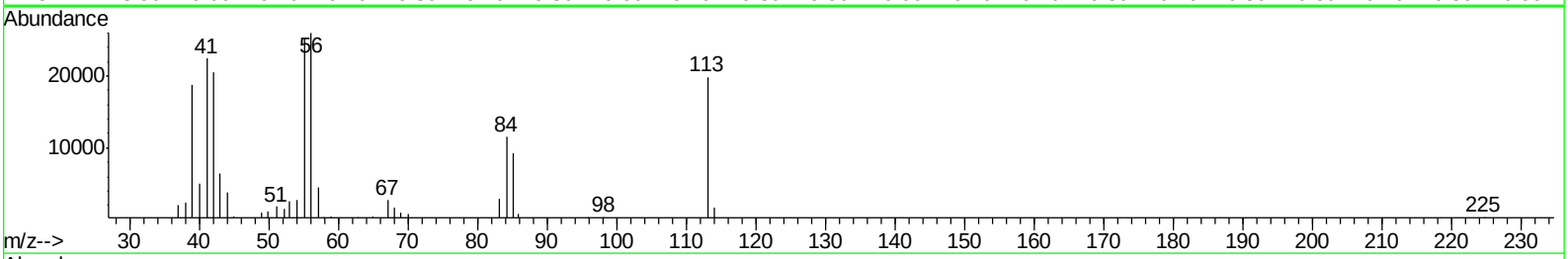


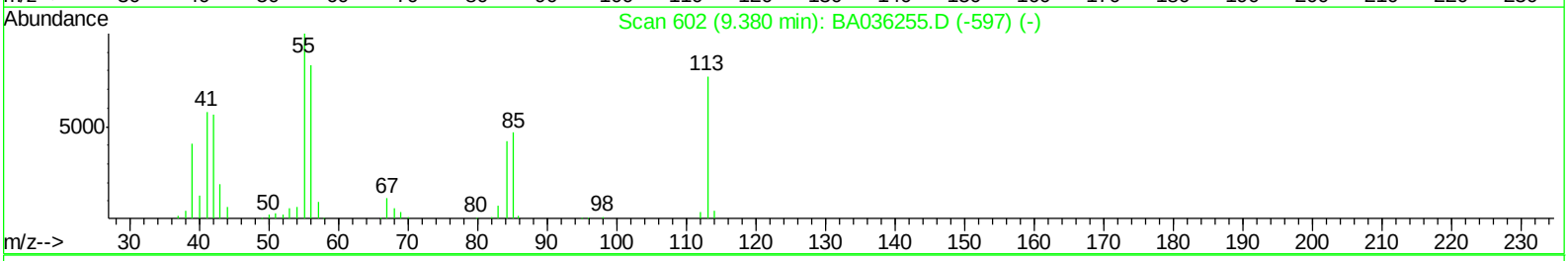
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:32:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041323.D

(30) Caprolactam

9.914min (+0.008) 13.21ng/ul

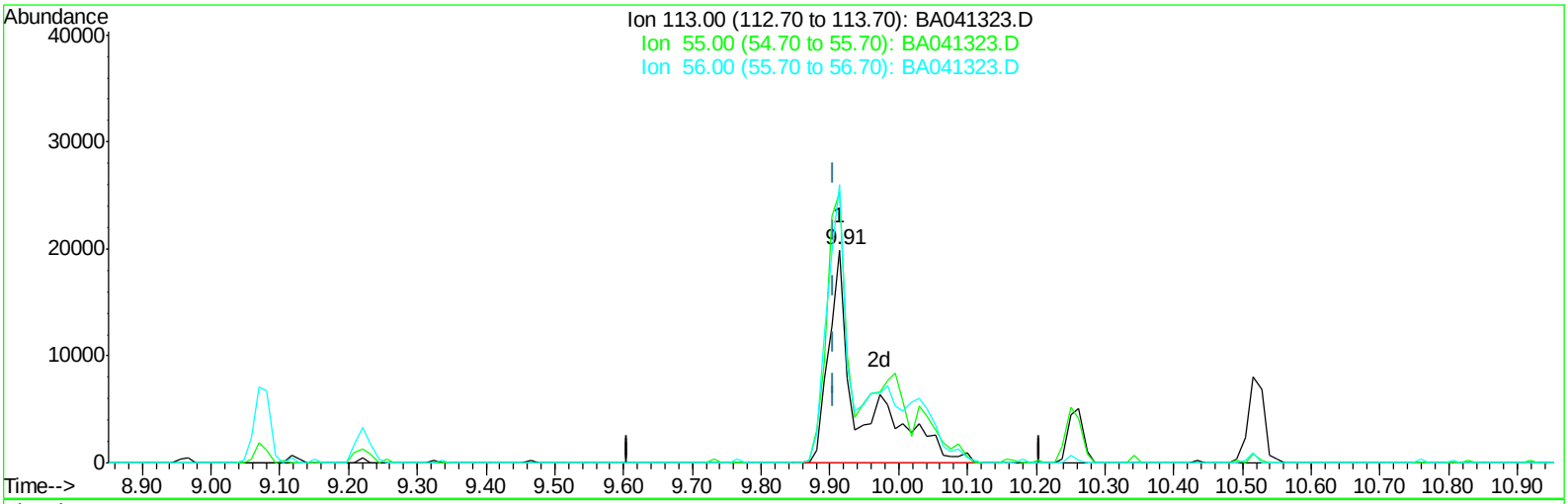
response 38226

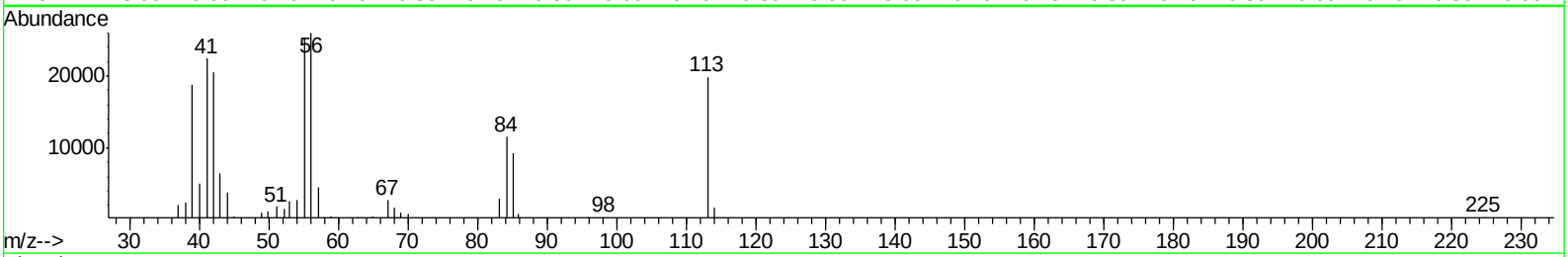
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	127.33
56.00	121.80	130.88
0.00	0.00	0.00

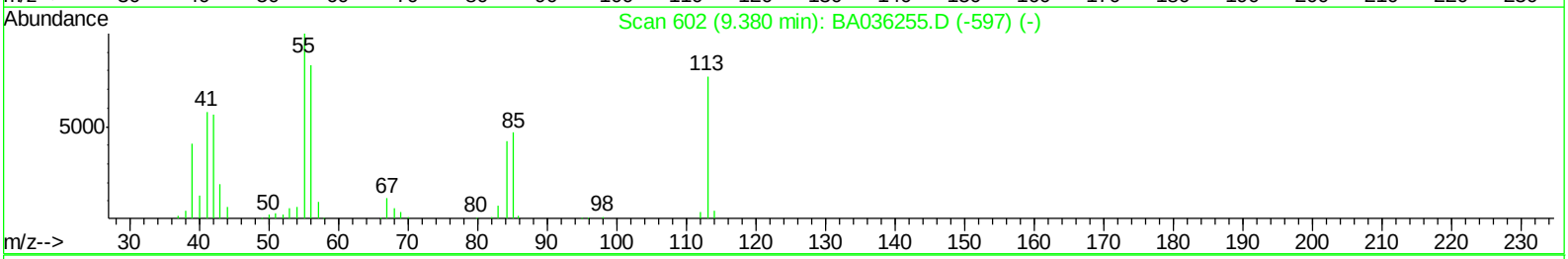
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:32:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041323.D

(30) Caprolactam

9.914min (+0.008) 22.09ng/ul m

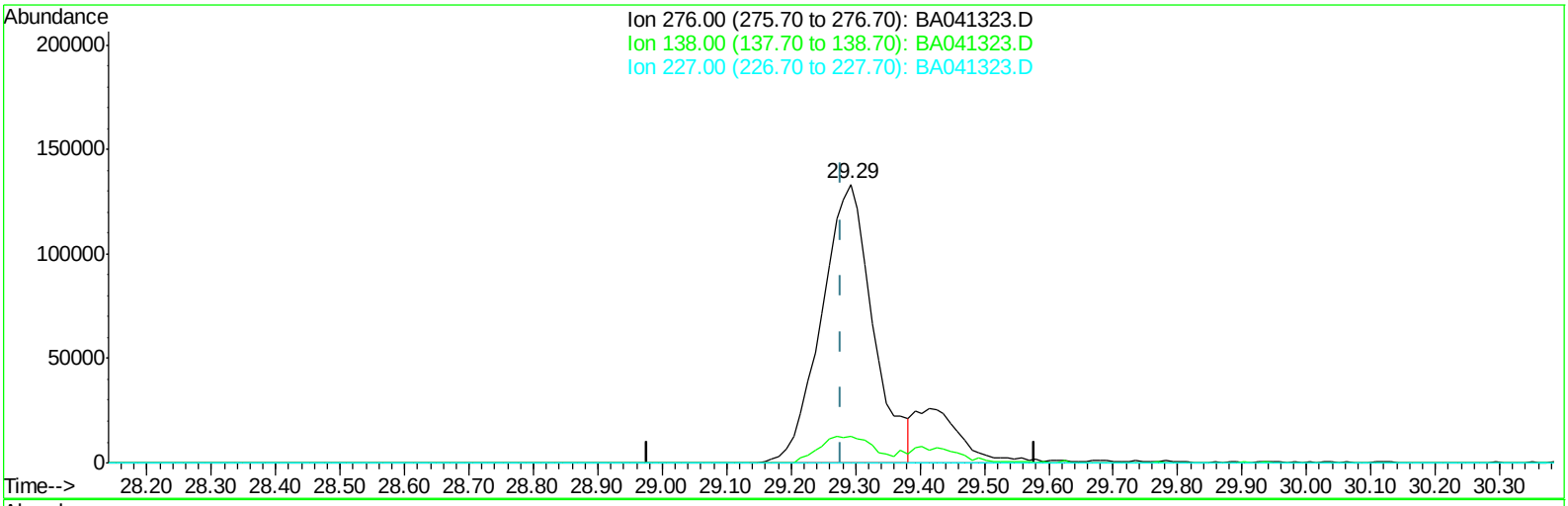
response 63944

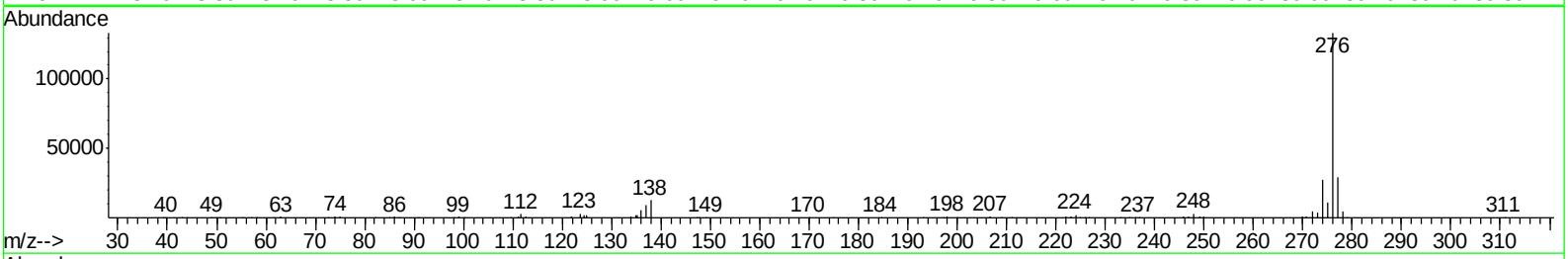
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	127.33
56.00	121.80	130.88
0.00	0.00	0.00

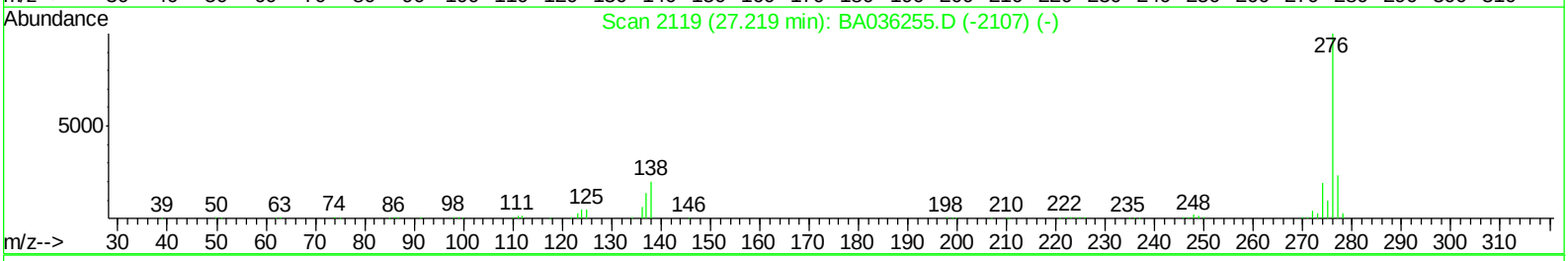
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:32:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041323.D

(87) Indeno(1,2,3-cd)pyrene

29.293min (+0.015) 17.94ng/ul

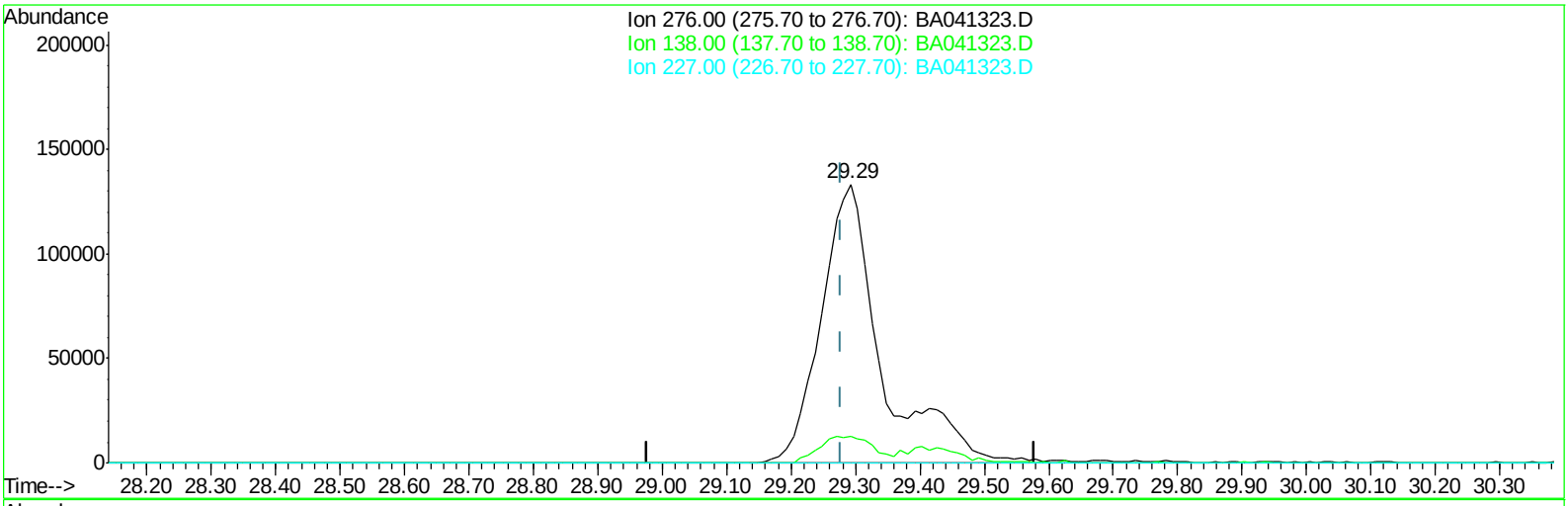
response 744128

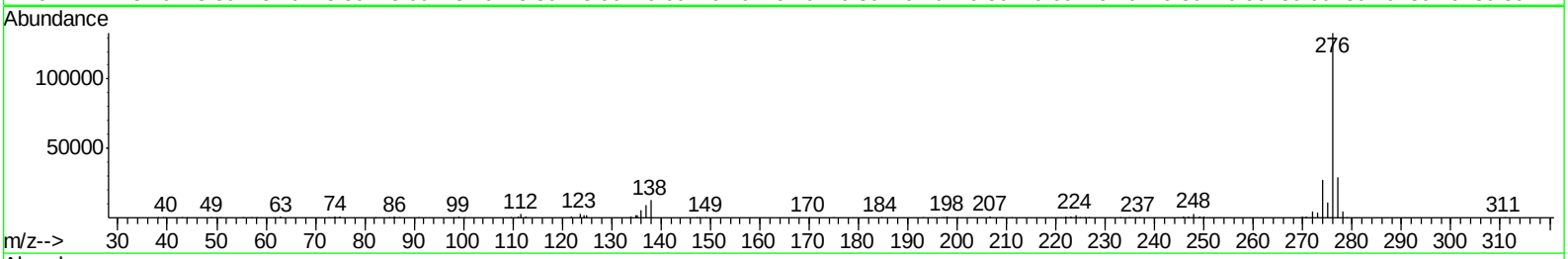
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	9.71
227.00	0.00	0.20#
0.00	0.00	0.00

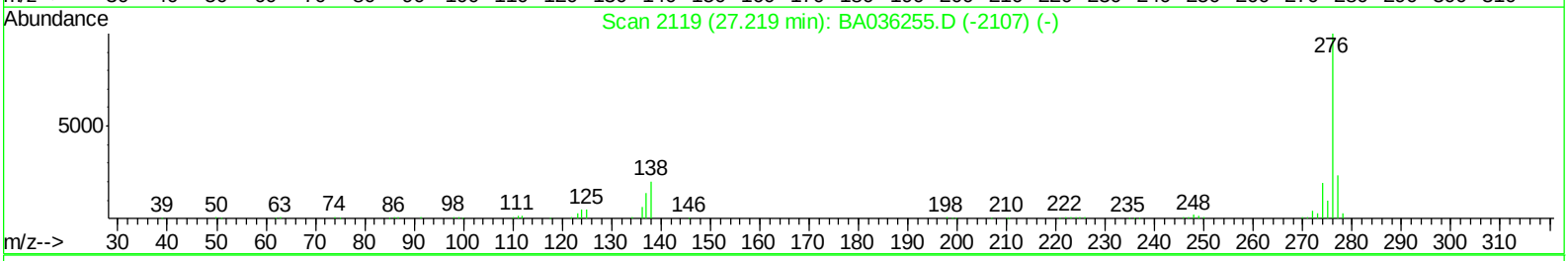
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:32:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041323.D

(87) Indeno(1,2,3-cd)pyrene

29.293min (+0.015) 20.95ng/ul m

response 869065

Ion	Exp%	Act%
276.00	100	100
138.00	10.20	9.71
227.00	0.00	0.20#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:34:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	185060	20.00	ng/ul	0.00
16) Naphthalene-d8	9.07	136	583337	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.66	164	404056	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.75	188	791573	20.00	ng/ul	0.00
73) Chrysene-d12	21.30	240	920652	20.00	ng/ul	0.00
81) Perylene-d12	25.09	264	786196	20.00	ng/ul	0.01
System Monitoring Compounds						
3) Phenol-d5	6.05	99	205622	18.35	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.15	67	137597	18.11	ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	174747	18.35	ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	149024	19.60	ng/ul	0.00
17) Nitrobenzene-d5	7.68	128	96072	18.60	ng/ul	0.00
20) 2-Nitrophenol-d4	8.31	143	127005	19.98	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.78	165	225205	19.14	ng/ul	0.00
27) 4-Chloroaniline-d4	9.22	131	232647	20.00	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	594259	22.08	ng/ul	0.00
44) Acenaphthylene-d8	12.34	160	682506	20.86	ng/ul	0.00
49) 4-Nitrophenol-d4	12.97	143	108744	19.83	ng/ul	0.00
55) Fluorene-d10	13.74	176	428391	19.79	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.92	200	136324	16.64	ng/ul	0.00
68) Anthracene-d10	15.87	188	712422	18.80	ng/ul	0.00
74) Pyrene-d10	18.71	212	822650	20.45	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.82	264	790769	18.47	ng/ul	0.00

Target Compounds						Qvalue
2) Benzaldehyde	5.93	77	129126	25.82	ng/ul	94
4) Phenol	6.07	94	230089	18.93	ng/ul#	90
6) Bis(2-Chloroethyl)ether	6.23	93	175567	18.04	ng/ul	95
8) 2-Chlorophenol	6.31	128	209936	19.49	ng/ul	95
9) 2-Methylphenol	7.14	108	162240	19.25	ng/ul	94
10) 2,2'-oxybis(1-Chloropropan	7.20	45	280236	19.42	ng/ul	95
12) Acetophenone	7.41	105	271785	18.28	ng/ul	84
13) N-Nitroso-di-n-propylamine	7.44	70	151932	20.04	ng/ul	95
14) 4-Methylphenol	7.44	108	159942	18.11	ng/ul	82
15) Hexachloroethane	7.60	117	117874	19.85	ng/ul	97
18) Nitrobenzene	7.72	77	254260	20.95	ng/ul	91
19) Isophorone	8.19	82	497075	21.24	ng/ul	98
21) 2-Nitrophenol	8.33	139	134978	19.78	ng/ul	96
22) 2,4-Dimethylphenol	8.45	107	216187	19.20	ng/ul	91
23) Bis(2-Chloroethoxy)methane	8.64	93	237079	20.60	ng/ul	97
25) 2,4-Dichlorophenol	8.80	162	238169	19.99	ng/ul#	95
26) Naphthalene	9.12	128	522219	19.78	ng/ul	98
28) 4-Chloroaniline	9.24	127	151856	19.75	ng/ul	92
29) Hexachlorobutadiene	9.41	225	186137	20.63	ng/ul	88
30) Caprolactam	9.91	113	63944m	22.09	ng/ul	
31) 4-Chloro-3-methylphenol	10.26	107	205026	19.92	ng/ul	93
32) 2-Methylnaphthalene	10.52	142	385258	18.64	ng/ul	98
34) 1,2,4,5-Tetrachlorobenzene	10.87	216	335677	22.21	ng/ul#	94
35) Hexachlorocyclopentadiene	10.87	237	210179	20.04	ng/ul	93

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041323.D
Acq On : 20 Oct 2008 15:18
Operator : HNP
Sample : CCC0020BA0058
Misc : SSTD02058
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 16:34:14 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.11	196	179216	19.66 ng/ul	99
37) 2,4,5-Trichlorophenol	11.18	196	207644	22.08 ng/ul	88
38) 1,1'-Biphenyl	11.50	154	567937	19.98 ng/ul	97
39) 2-Chloronaphthalene	11.51	162	500951	20.47 ng/ul	94
40) 2-Nitroaniline	11.74	65	167927	22.13 ng/ul	91
42) Dimethylphthalate	12.16	163	595057	20.28 ng/ul#	96
43) 2,6-Dinitrotoluene	12.27	165	148346	20.01 ng/ul	92
45) Acenaphthylene	12.36	152	643641	20.02 ng/ul	100
46) 3-Nitroaniline	12.59	138	125478	21.52 ng/ul	88
47) Acenaphthene	12.73	153	432781	20.44 ng/ul	98
48) 2,4-Dinitrophenol	12.81	184	99279	16.31 ng/ul	87
50) 4-Nitrophenol	12.98	109	135344	20.58 ng/ul	92
51) Dibenzofuran	13.09	168	630647	19.98 ng/ul	98
52) 2,4-Dinitrotoluene	13.09	165	192373	19.85 ng/ul	89
53) 2,3,4,6-Tetrachlorophenol	13.37	232	198766	22.30 ng/ul#	86
54) Diethylphthalate	13.63	149	630948	22.14 ng/ul	97
56) Fluorene	13.81	166	554334	21.28 ng/ul#	93
57) 4-Chlorophenyl-phenylether	13.83	204	295816	21.33 ng/ul#	89
58) 4-Nitroaniline	13.86	138	131548	28.94 ng/ul	97
61) 4,6-Dinitro-2-methylphenol	13.93	198	157398	18.68 ng/ul#	88
62) N-Nitrosodiphenylamine	14.08	169	401902	17.80 ng/ul#	92
63) 4-Bromophenyl-phenylether	14.84	248	189288	19.46 ng/ul	96
64) Hexachlorobenzene	14.96	284	237699	20.96 ng/ul	95
65) Atrazine	15.22	200	85185	21.36 ng/ul	94
66) Pentachlorophenol	15.37	266	168490	19.43 ng/ul	93
67) Phenanthrene	15.80	178	788407	19.52 ng/ul	98
69) Anthracene	15.91	178	766707	18.86 ng/ul	97
70) Carbazole	16.25	167	720422	19.60 ng/ul	97
71) Di-n-butylphthalate	17.05	149	1045925	19.87 ng/ul	99
72) Fluoranthene	18.29	202	949056	19.81 ng/ul#	99
75) Pyrene	18.76	202	1026390	20.09 ng/ul	98
76) Butylbenzylphthalate	20.16	149	486716	19.66 ng/ul#	97
77) 3,3'-Dichlorobenzidine	21.24	252	303255	20.37 ng/ul	95
78) Benzo(a)anthracene	21.26	228	991805	20.31 ng/ul	94
79) Bis(2-ethylhexyl)phthalate	21.39	149	537983	20.77 ng/ul	97
80) Chrysene	21.34	228	858858	20.72 ng/ul	96
82) Di-n-octyl phthalate	22.90	149	985656	19.70 ng/ul	100
83) Benzo(b)fluoranthene	23.91	252	958419	18.66 ng/ul	96
84) Benzo(k)fluoranthene	23.99	252	874613	20.02 ng/ul	100
86) Benzo(a)pyrene	24.91	252	897050	20.26 ng/ul	97
87) Indeno(1,2,3-cd)pyrene	29.29	276	869065m	20.95 ng/ul	
88) Dibenzo(a,h)anthracene	29.43	278	614970	19.31 ng/ul	98
89) Benzo(g,h,i)perylene	30.59	276	769764	18.34 ng/ul#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7E - FORM VII SV-1
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 01:01

Lab File ID: BA041337.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Benzaldehyde	0.540	0.772	0.010	42.9	50.0
Phenol	1.314	1.368	0.010	4.1	50.0
Bis(2-Chloroethyl)ether	1.052	1.180	0.010	12.2	50.0
2-Chlorophenol	1.164	1.211	0.010	4.1	50.0
2-Methylphenol	0.911	1.006	0.010	10.4	50.0
2,2-oxybis(1-Chloropropane)	1.559	1.713	0.010	9.9	50.0
Acetophenone	1.607	1.635	0.010	1.8	50.0
4-Methylphenol	0.954	1.064	0.010	11.5	50.0
N-Nitroso-di-n-propylamine	0.819	0.940	0.010	14.7	50.0
Hexachloroethane	0.642	0.668	0.010	4.1	50.0
Nitrobenzene	0.416	0.399	0.010	-4.1	50.0
Isophorone	0.802	0.802	0.010	0.0	50.0
2-Nitrophenol	0.234	0.220	0.010	-5.8	50.0
2,4-Dimethylphenol	0.386	0.379	0.010	-1.9	50.0
Bis(2-Chloroethoxy)methane	0.395	0.395	0.010	0.1	50.0
2,4-Dichlorophenol	0.409	0.409	0.010	0.0	50.0
Naphthalene	0.905	0.893	0.010	-1.3	50.0
4-Chloroaniline	0.264	0.280	0.010	6.0	50.0
Hexachlorobutadiene	0.309	0.317	0.010	2.4	50.0
Caprolactam	0.099	0.109	0.010	9.8	50.0
4-Chloro-3-methylphenol	0.353	0.366	0.010	3.6	50.0
2-Methylnaphthalene	0.709	0.657	0.010	-7.4	50.0
Hexachlorocyclopentadiene	0.519	0.431	0.010	-17.0	50.0
2,4,6-Trichlorophenol	0.451	0.432	0.010	-4.1	50.0
2,4,5-Trichlorophenol	0.466	0.475	0.010	2.0	50.0
1,1-Biphenyl	1.407	1.445	0.010	2.7	50.0
2-Chloronaphthalene	1.211	1.179	0.010	-2.7	50.0
2-Nitroaniline	0.376	0.379	0.010	0.8	50.0
Dimethylphthalate	1.452	1.426	0.010	-1.8	50.0
2,6-Dinitrotoluene	0.367	0.365	0.010	-0.7	50.0
Acenaphthylene	1.591	1.594	0.010	0.2	50.0
3-Nitroaniline	0.289	0.323	0.010	11.9	50.0
Acenaphthene	1.048	1.081	0.010	3.2	50.0
2,4-Dinitrophenol	0.301	0.233	0.010	-22.6	50.0
4-Nitrophenol	0.326	0.306	0.010	-6.2	50.0
Dibenzofuran	1.562	1.555	0.010	-0.4	50.0
2,4-Dinitrotoluene	0.480	0.477	0.010	-0.6	50.0
Diethylphthalate	1.411	1.443	0.010	2.2	50.0
Fluorene	1.290	1.284	0.010	-0.5	50.0
4-Chlorophenyl-phenylether	0.686	0.700	0.010	2.0	50.0

7F - FORM VII SV-2
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 01:01

Lab File ID: BA041337.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
4-Nitroaniline	0.225	0.323	0.010	43.4	50.0
4,6-Dinitro-2-methylphenol	0.213	0.189	0.010	-11.5	50.0
N-Nitrosodiphenylamine[1]	0.571	0.577	0.010	1.0	50.0
1,2,4,5-Tetrachlorobenzene	0.748	0.784	0.010	4.8	50.0
4-Bromophenyl-phenylether	0.246	0.246	0.010	0.0	50.0
Hexachlorobenzene	0.287	0.288	0.010	0.3	50.0
Atrazine	0.101	0.113	0.010	11.5	50.0
Pentachlorophenol	0.219	0.201	0.010	-8.1	50.0
Phenanthrene	1.020	0.994	0.010	-2.6	50.0
Anthracene	1.027	1.046	0.010	1.8	50.0
Carbazole	0.929	0.926	0.010	-0.4	50.0
Di-n-butylphthalate	1.330	1.344	0.010	1.1	50.0
Fluoranthene	1.211	1.186	0.010	-2.0	50.0
Pyrene	1.110	1.073	0.010	-3.4	50.0
Butylbenzylphthalate	0.538	0.579	0.010	7.5	50.0
3,3-Dichlorobenzidine	0.323	0.352	0.010	8.9	50.0
Benzo(a)anthracene	1.061	1.083	0.010	2.0	50.0
Chrysene	0.901	0.965	0.010	7.1	50.0
Bis(2-ethylhexyl)phthalate	0.563	0.644	0.010	14.4	50.0
Di-n-octyl phthalate	1.273	1.323	0.010	4.0	50.0
Benzo(b)fluoranthene	1.306	1.131	0.010	-13.4	50.0
Benzo(k)fluoranthene	1.111	1.161	0.010	4.5	50.0
Benzo(a)pyrene	1.126	1.089	0.010	-3.3	50.0
Indeno(1,2,3-cd)pyrene	1.055	0.993	0.010	-5.9	50.0
Dibenzo(a,h)anthracene	0.810	0.779	0.010	-3.8	50.0
Benzo(g,h,i)perylene	1.068	0.851	0.010	-20.3	50.0
2,3,4,6-Tetrachlorophenol	0.441	0.457	0.010	3.5	50.0

[1] Cannot be separated from Diphenylamine

7G - FORM VII SV-3
SEMIVOLATILE CONTINUING CALIBRATION DATA

Lab Name: Chemtech Consulting Grou Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Instrument ID: BNAA Calibration Date: 10/21/2008 Time: 01:01

Lab File ID: BA041337.D Init. Calib. Date(s): 10/19/2008 10/19/2008

EPA Sample No. (SSTD020##:) CCC0020BA005 Init. Calib. Time(s): 14:01 17:16

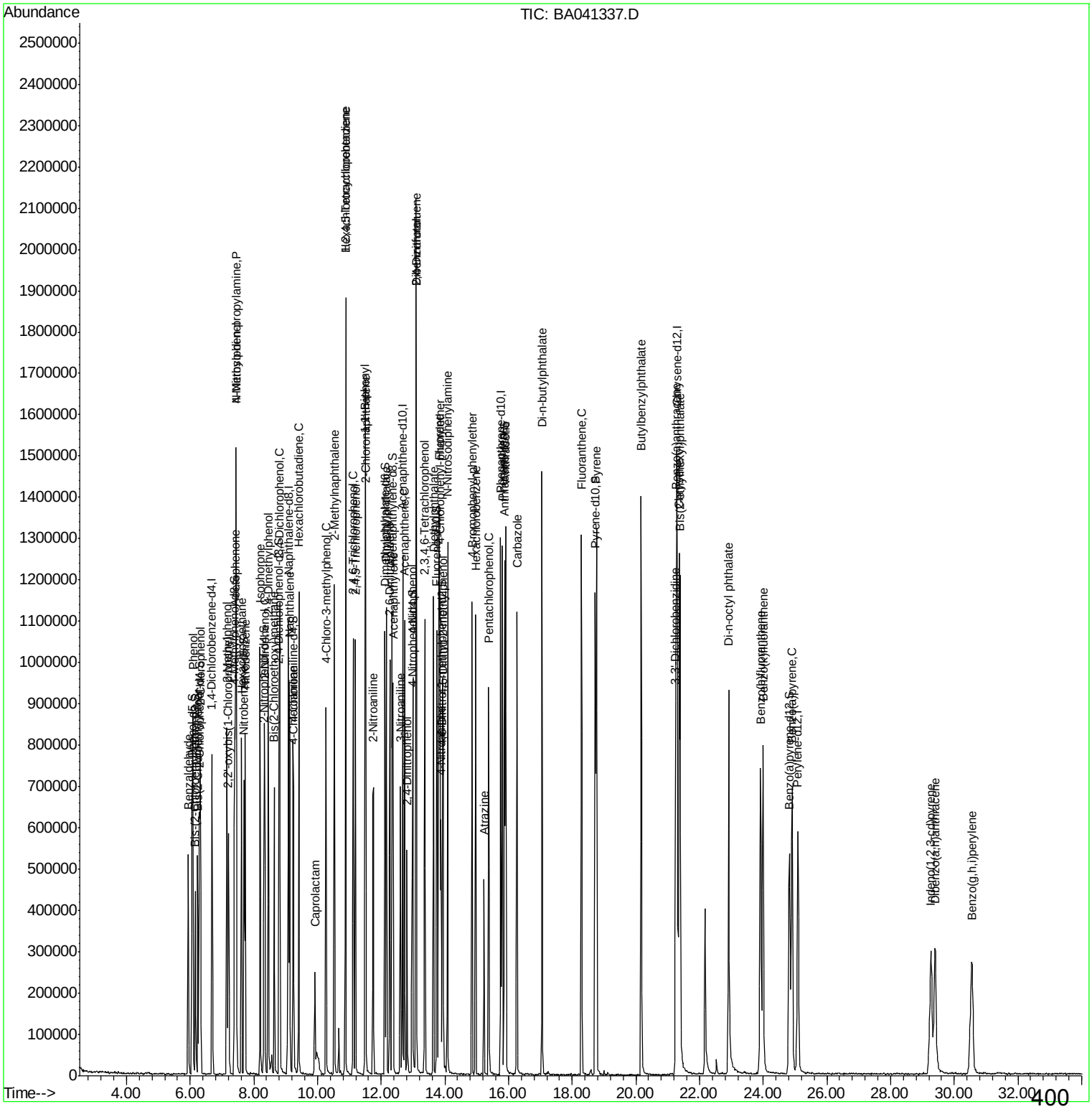
GC Column: RTX-5 SIL ID: 0.32 (mm)

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX%D
Phenol-d5	1.211	1.256	0.010	3.7	50.0
Bis(2-Chloroethyl)ether-d8	0.821	0.834	0.010	1.6	50.0
2-Chlorophenol-d4	1.029	1.147	0.010	11.4	50.0
4-Methylphenol-d8	0.822	0.921	0.010	12.0	50.0
Nitrobenzene-d5	0.177	0.190	0.010	7.1	50.0
2-Nitrophenol-d4	0.218	0.225	0.010	3.2	50.0
2,4-Dichlorophenol-d3	0.403	0.389	0.010	-3.4	50.0
4-Chloroaniline-d4	0.399	0.389	0.010	-2.5	50.0
Dimethylphthalate-d6	1.332	1.346	0.010	1.0	50.0
Acenaphthylene-d8	1.619	1.627	0.010	0.5	50.0
4-Nitrophenol-d4	0.271	0.261	0.010	-3.5	50.0
Fluorene-d10	1.071	1.030	0.010	-3.8	50.0
4,6-Dinitro-2-methylphenol-d2	0.207	0.177	0.010	-14.4	50.0
Anthracene-d10	0.957	0.951	0.010	-0.7	50.0
Pyrene-d10	0.874	0.887	0.010	1.4	50.0
Benzo(a)pyrene-d12	1.089	0.928	0.010	-14.8	50.0

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

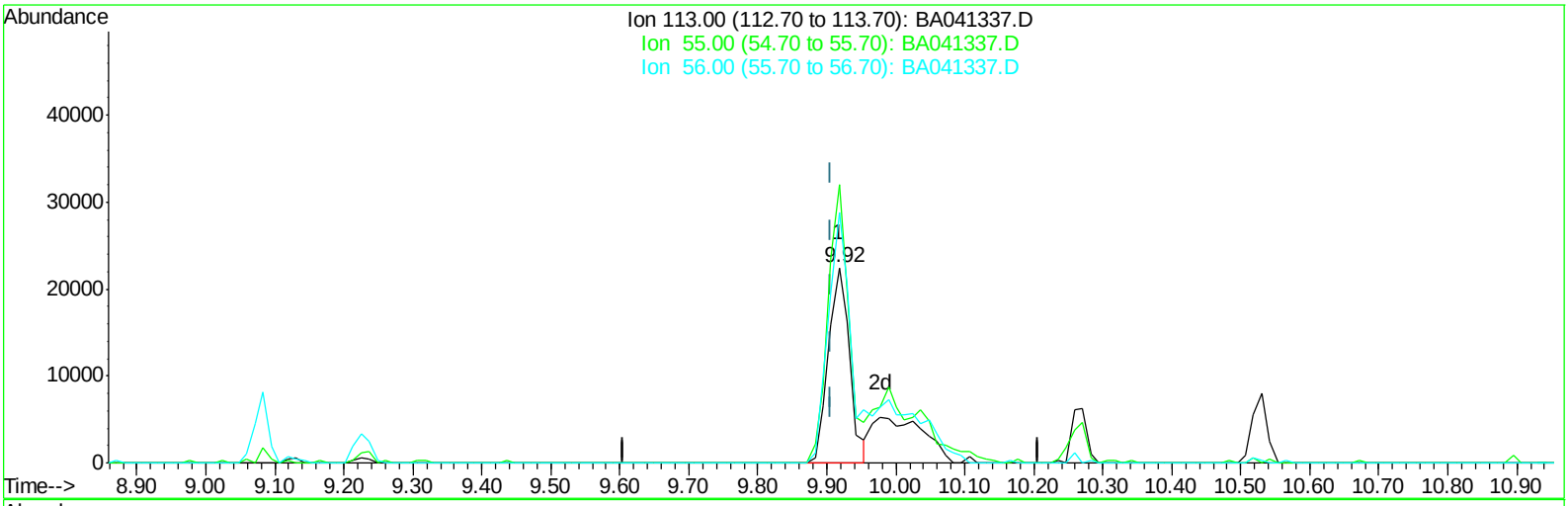
Quant Time: Oct 21 02:36:39 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

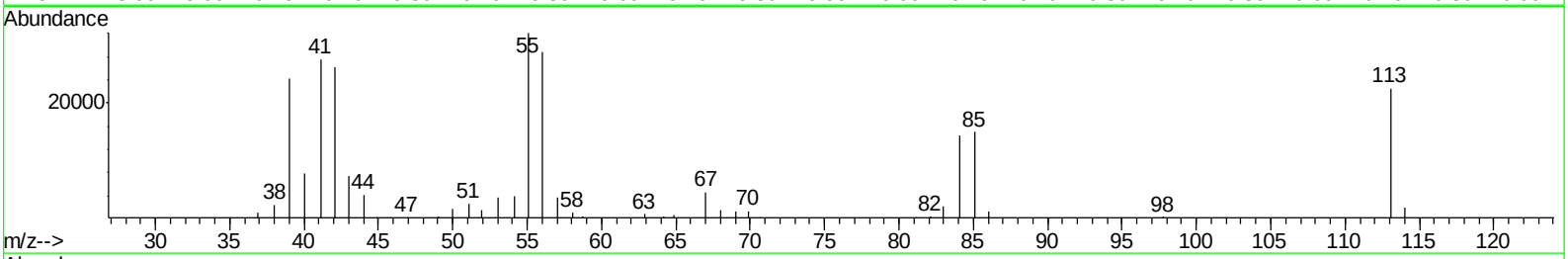


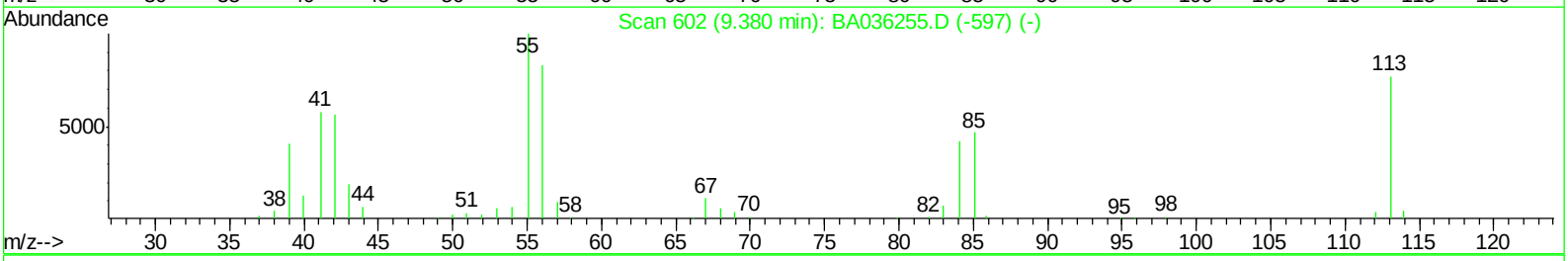
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041337.D

(30) Caprolactam

9.918min (+0.012) 13.84ng/ul

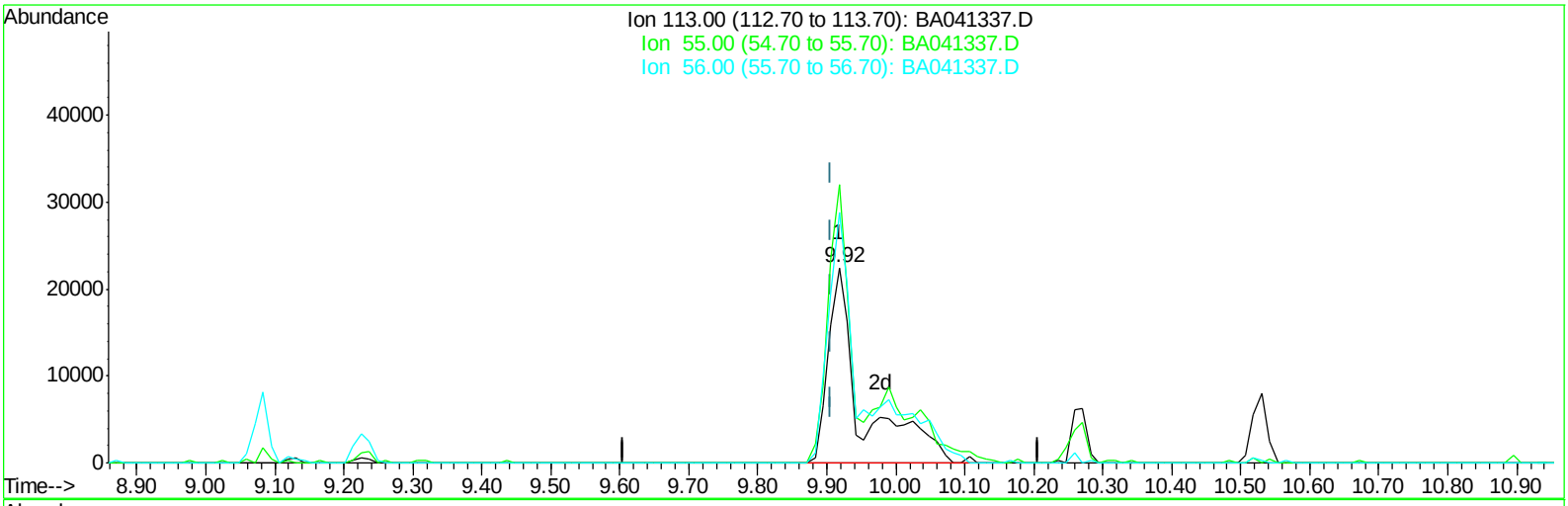
response 47815

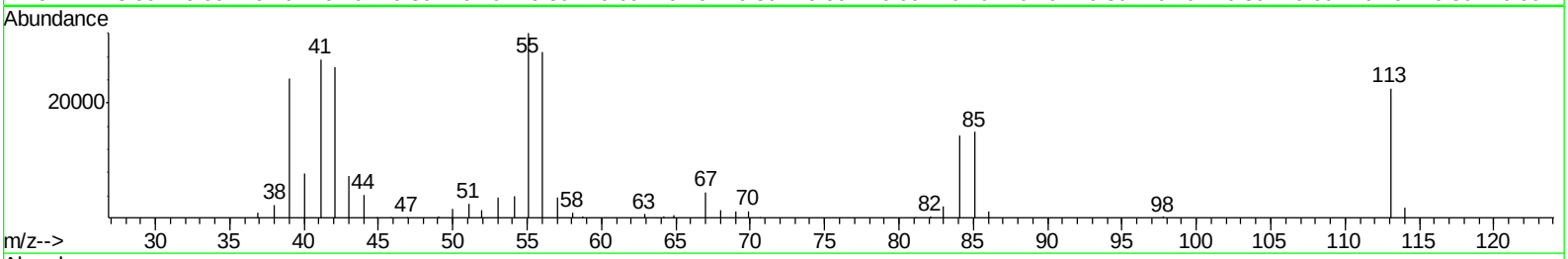
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	142.37
56.00	121.80	128.32
0.00	0.00	0.00

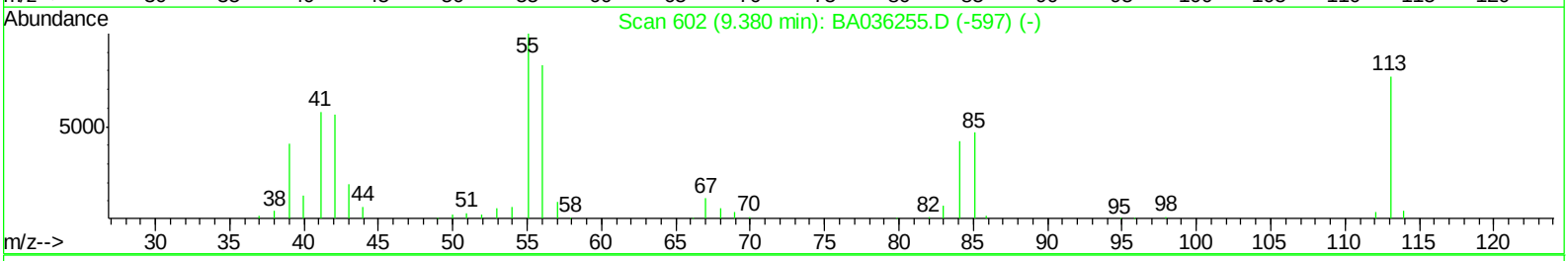
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041337.D

(30) Caprolactam

9.918min (+0.012) 21.90ng/ul m

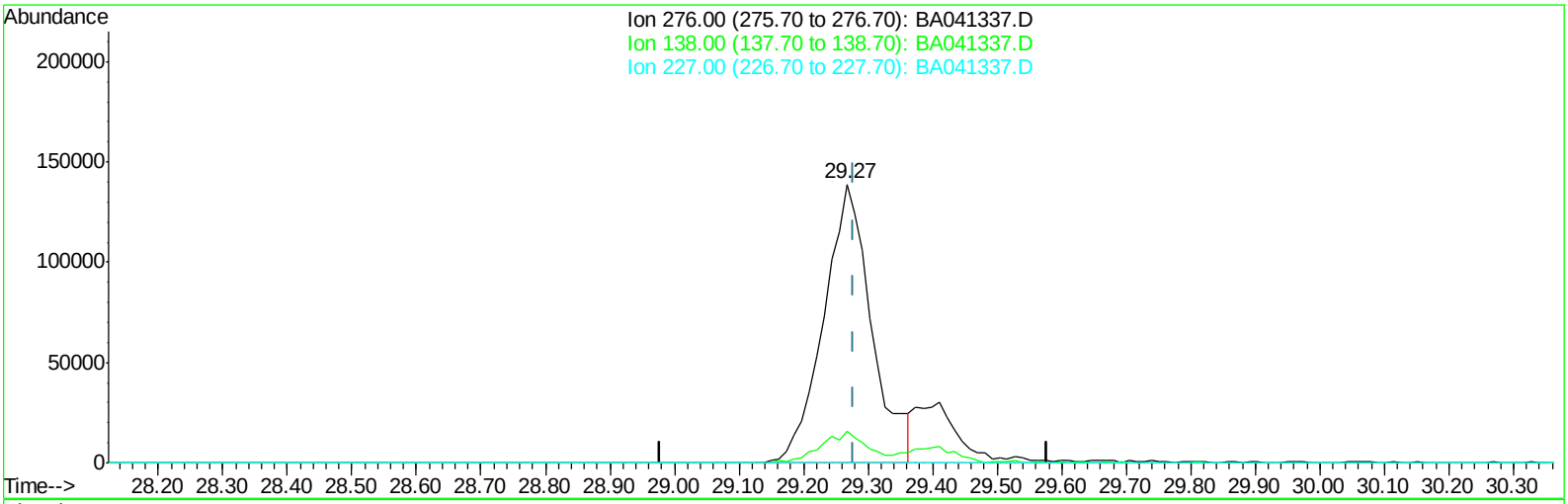
response 75684

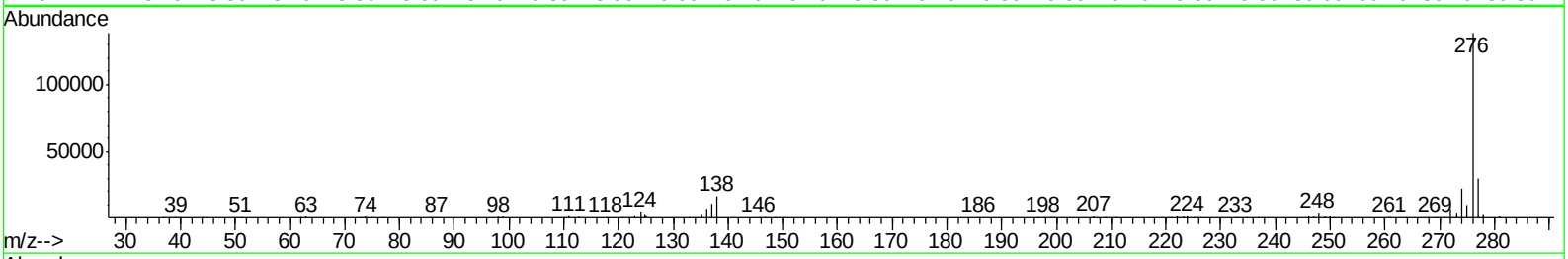
Ion	Exp%	Act%
113.00	100	100
55.00	148.50	142.37
56.00	121.80	128.32
0.00	0.00	0.00

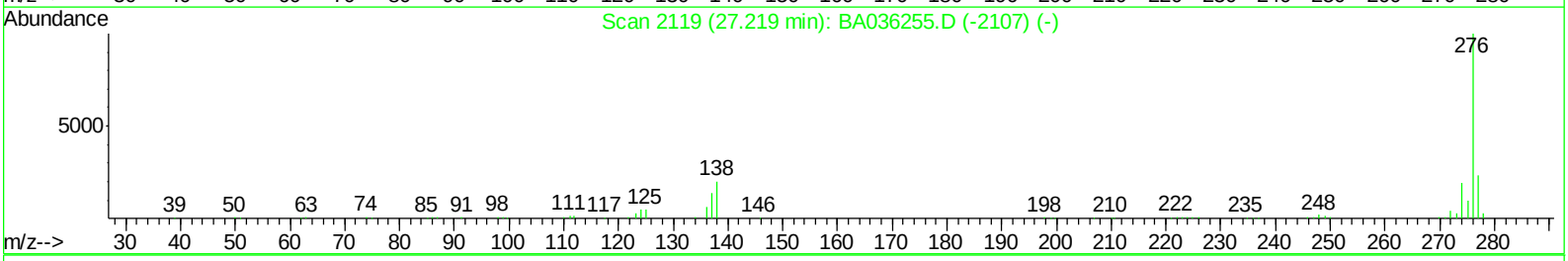
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041337.D

(87) Indeno(1,2,3-cd)pyrene

29.267min (-0.010) 15.68ng/ul

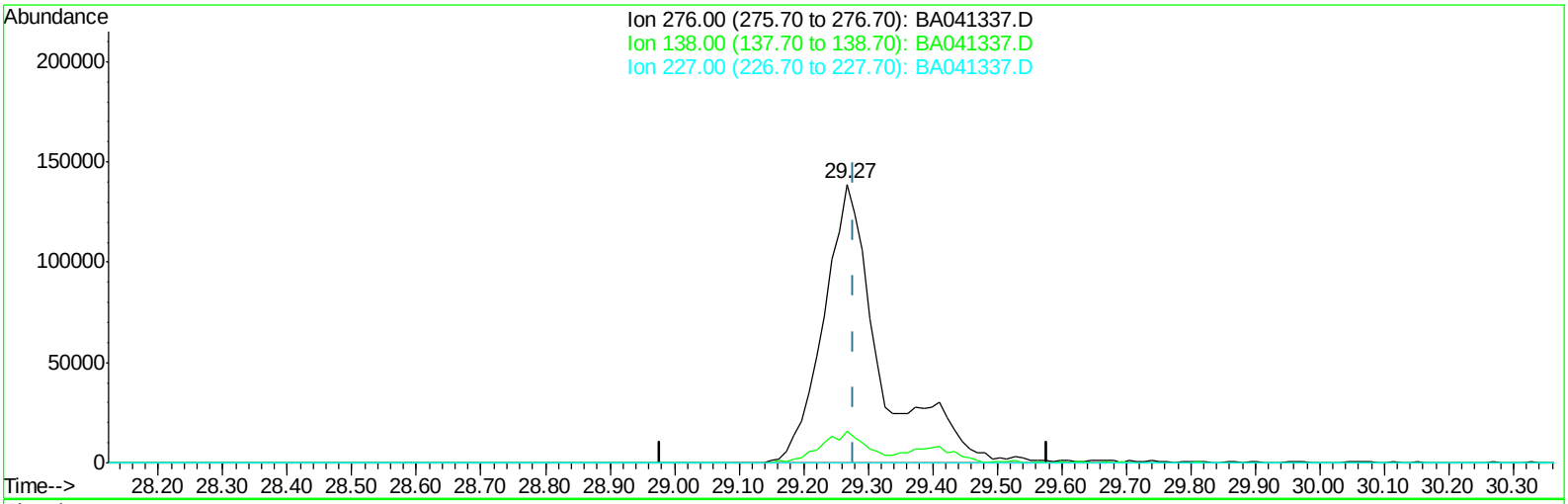
response 719415

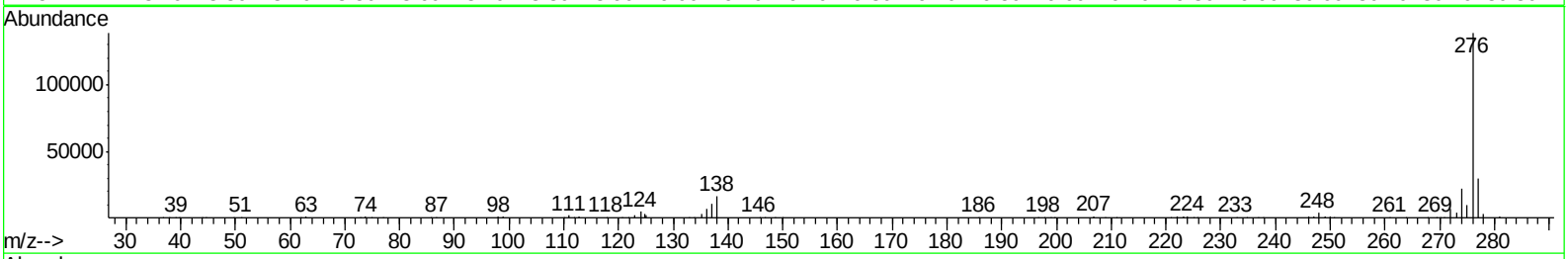
Ion	Exp%	Act%
276.00	100	100
138.00	10.20	11.50
227.00	0.00	0.00
0.00	0.00	0.00

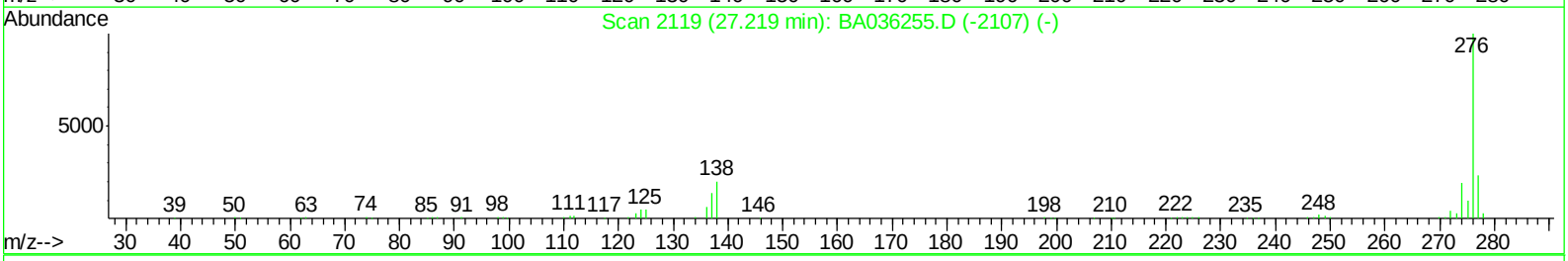
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:34:46 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041337.D

(87) Indeno(1,2,3-cd)pyrene

29.267min (-0.010) 18.81ng/ul m

response 863212

Ion	Exp%	Act%
276.00	100	100
138.00	10.20	11.50
227.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:36:39 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	204952	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	696443	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.67	164	474813	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.76	188	863100	20.00	ng/ul	0.00
73) Chrysene-d12	21.30	240	1004503	20.00	ng/ul	0.00
81) Perylene-d12	25.08	264	869667	20.00	ng/ul	0.01
System Monitoring Compounds						
3) Phenol-d5	6.06	99	257456	20.75	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	171025	20.33	ng/ul	0.01
7) 2-Chlorophenol-d4	6.29	132	234989	22.28	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	188704	22.41	ng/ul	0.01
17) Nitrobenzene-d5	7.69	128	132016	21.41	ng/ul	0.00
20) 2-Nitrophenol-d4	8.32	143	156627	20.64	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.79	165	271015	19.30	ng/ul	0.00
27) 4-Chloroaniline-d4	9.22	131	270842	19.50	ng/ul	0.00
41) Dimethylphthalate-d6	12.12	166	639088	20.21	ng/ul	0.00
44) Acenaphthylene-d8	12.34	160	772727	20.10	ng/ul	0.00
49) 4-Nitrophenol-d4	12.98	143	124159	19.26	ng/ul	0.02
55) Fluorene-d10	13.75	176	489081	19.23	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.92	200	153010	17.13	ng/ul	0.00
68) Anthracene-d10	15.88	188	820481	19.86	ng/ul	0.01
74) Pyrene-d10	18.73	212	890552	20.29	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.82	264	807182	17.04	ng/ul	0.00
Target Compounds						Qvalue
2) Benzaldehyde	5.94	77	158206	28.57	ng/ul	89
4) Phenol	6.08	94	280461	20.83	ng/ul#	93
6) Bis(2-Chloroethyl)ether	6.23	93	241834	22.43	ng/ul	88
8) 2-Chlorophenol	6.32	128	248251	20.81	ng/ul	96
9) 2-Methylphenol	7.15	108	206171	22.08	ng/ul	96
10) 2,2'-oxybis(1-Chloropropan	7.20	45	351019	21.97	ng/ul	97
12) Acetophenone	7.42	105	335163	20.35	ng/ul	99
13) N-Nitroso-di-n-propylamine	7.45	70	192574	22.93	ng/ul	95
14) 4-Methylphenol	7.45	108	218059	22.30	ng/ul	89
15) Hexachloroethane	7.61	117	136947	20.82	ng/ul	99
18) Nitrobenzene	7.73	77	277753	19.17	ng/ul	96
19) Isophorone	8.20	82	558734	20.00	ng/ul	99
21) 2-Nitrophenol	8.34	139	153480	18.84	ng/ul	96
22) 2,4-Dimethylphenol	8.46	107	263625	19.61	ng/ul	96
23) Bis(2-Chloroethoxy)methane	8.65	93	275298	20.04	ng/ul	95
25) 2,4-Dichlorophenol	8.81	162	284873	20.02	ng/ul#	93
26) Naphthalene	9.12	128	622082	19.74	ng/ul	99
28) 4-Chloroaniline	9.25	127	194937	21.24	ng/ul	99
29) Hexachlorobutadiene	9.41	225	220470	20.46	ng/ul	99
30) Caprolactam	9.92	113	75684m	21.90	ng/ul	
31) 4-Chloro-3-methylphenol	10.27	107	254721	20.73	ng/ul#	84
32) 2-Methylnaphthalene	10.53	142	457256	18.53	ng/ul	85
34) 1,2,4,5-Tetrachlorobenzene	10.88	216	372368	20.97	ng/ul#	94
35) Hexachlorocyclopentadiene	10.88	237	204413	16.58	ng/ul	97

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041337.D
Acq On : 21 Oct 2008 1:01
Operator : HNP
Sample : CCC0020BA0059
Misc : SSTD02059
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 02:36:39 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,4,6-Trichlorophenol	11.12	196	205283	19.16 ng/ul	94
37) 2,4,5-Trichlorophenol	11.19	196	225662	20.42 ng/ul	98
38) 1,1'-Biphenyl	11.50	154	686014	20.54 ng/ul	96
39) 2-Chloronaphthalene	11.52	162	559568	19.46 ng/ul	95
40) 2-Nitroaniline	11.75	65	180019	20.19 ng/ul	95
42) Dimethylphthalate	12.16	163	677307	19.65 ng/ul	99
43) 2,6-Dinitrotoluene	12.27	165	173096	19.87 ng/ul#	87
45) Acenaphthylene	12.38	152	756859	20.04 ng/ul	97
46) 3-Nitroaniline	12.60	138	153568	22.41 ng/ul	95
47) Acenaphthene	12.74	153	513497	20.63 ng/ul	96
48) 2,4-Dinitrophenol	12.81	184	110599	15.46 ng/ul	95
50) 4-Nitrophenol	12.99	109	145237	18.79 ng/ul	92
51) Dibenzofuran	13.10	168	738325	19.91 ng/ul	99
52) 2,4-Dinitrotoluene	13.10	165	226582	19.89 ng/ul	95
53) 2,3,4,6-Tetrachlorophenol	13.37	232	216775	20.70 ng/ul	97
54) Diethylphthalate	13.64	149	684925	20.45 ng/ul	98
56) Fluorene	13.82	166	609671	19.91 ng/ul	94
57) 4-Chlorophenyl-phenylether	13.84	204	332399	20.40 ng/ul	94
58) 4-Nitroaniline	13.88	138	153221	28.68 ng/ul	93
61) 4,6-Dinitro-2-methylphenol	13.95	198	162700	17.71 ng/ul#	94
62) N-Nitrosodiphenylamine	14.09	169	497807	20.22 ng/ul	92
63) 4-Bromophenyl-phenylether	14.85	248	212419	20.03 ng/ul	93
64) Hexachlorobenzene	14.97	284	248471	20.09 ng/ul#	92
65) Atrazine	15.23	200	97170	22.35 ng/ul#	81
66) Pentachlorophenol	15.38	266	173653	18.37 ng/ul	93
67) Phenanthrene	15.81	178	857798	19.48 ng/ul	97
69) Anthracene	15.91	178	902548	20.37 ng/ul	98
70) Carbazole	16.26	167	798901	19.94 ng/ul	96
71) Di-n-butylphthalate	17.06	149	1160260	20.21 ng/ul	98
72) Fluoranthene	18.29	202	1023800	19.60 ng/ul#	98
75) Pyrene	18.76	202	1077579	19.33 ng/ul	99
76) Butylbenzylphthalate	20.17	149	581200	21.52 ng/ul	95
77) 3,3'-Dichlorobenzidine	21.24	252	353377	21.76 ng/ul#	92
78) Benzo(a)anthracene	21.27	228	1087404	20.41 ng/ul	99
79) Bis(2-ethylhexyl)phthalate	21.39	149	646821	22.89 ng/ul	97
80) Chrysene	21.35	228	969541	21.43 ng/ul	98
82) Di-n-octyl phthalate	22.91	149	1150941	20.80 ng/ul	100
83) Benzo(b)fluoranthene	23.92	252	983492	17.31 ng/ul#	96
84) Benzo(k)fluoranthene	24.00	252	1009640	20.89 ng/ul	98
86) Benzo(a)pyrene	24.91	252	947223	19.34 ng/ul	97
87) Indeno(1,2,3-cd)pyrene	29.27	276	863212m	18.81 ng/ul	
88) Dibenzo(a,h)anthracene	29.40	278	677452	19.23 ng/ul	100
89) Benzo(g,h,i)perylene	30.56	276	740072	15.94 ng/ul#	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

CHEMTECH

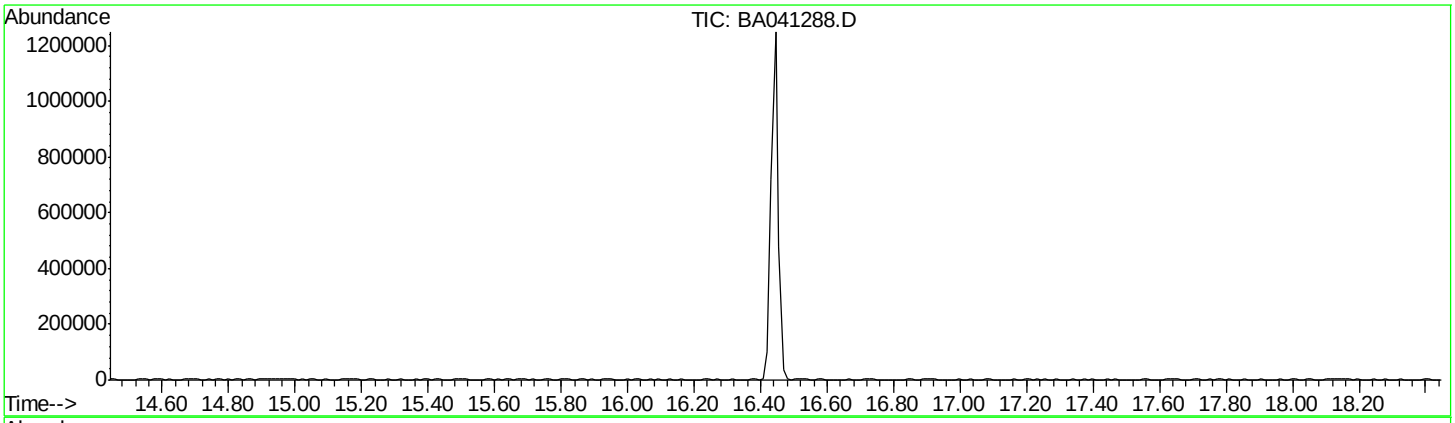
SEMI-VOLATILE RAW QC DATA

DFTPP

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041288.D
Acq On : 19 Oct 2008 13:20
Operator : QM
Sample : DFTPPBA0013
Misc : DFTPP13
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Oct 20 11:13:32 2008



AutoFind: Scans 1184, 1185, 1186; Background Corrected with Scan 1179

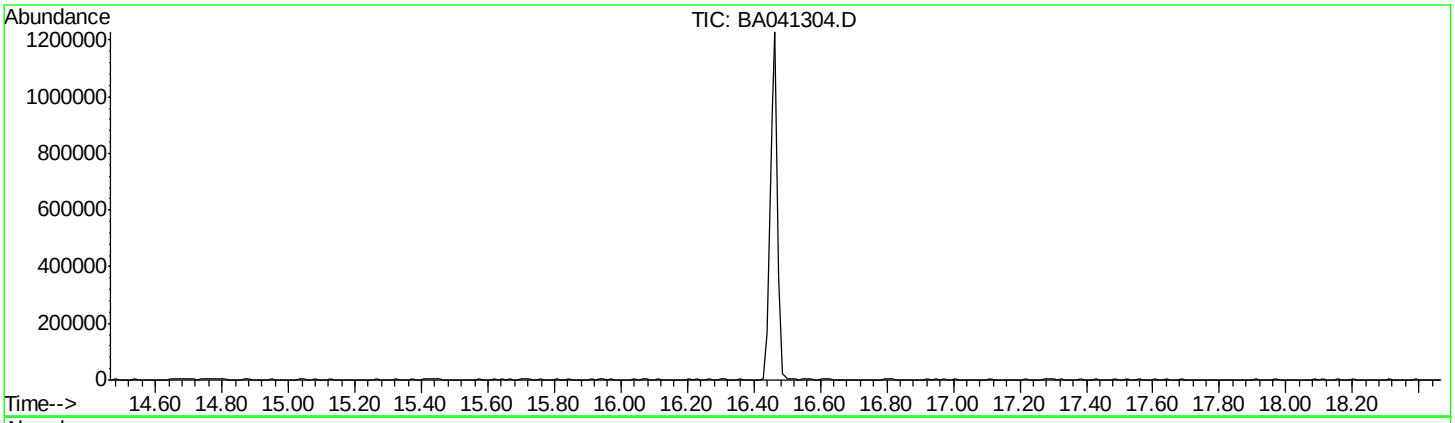
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.3	52690	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	56.5	59221	PASS
70	69	0.00	2	0.2	106	PASS
127	198	10	80	39.1	41005	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	104802	PASS
199	198	5	9	6.6	6961	PASS
275	198	10	60	16.0	16740	PASS
365	198	1	100	1.3	1372	PASS
441	443	0.01	100	73.4	7271	PASS
442	198	50	100	50.1	52506	PASS
443	442	15	24	18.9	9906	PASS

DFTPP

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041304.D
Acq On : 20 Oct 2008 00:51
Operator : QM
Sample : DFTPPBA0014
Misc : DFTPP14
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Oct 20 11:13:32 2008



AutoFind: Scans 1187, 1188, 1189; Background Corrected with Scan 1183

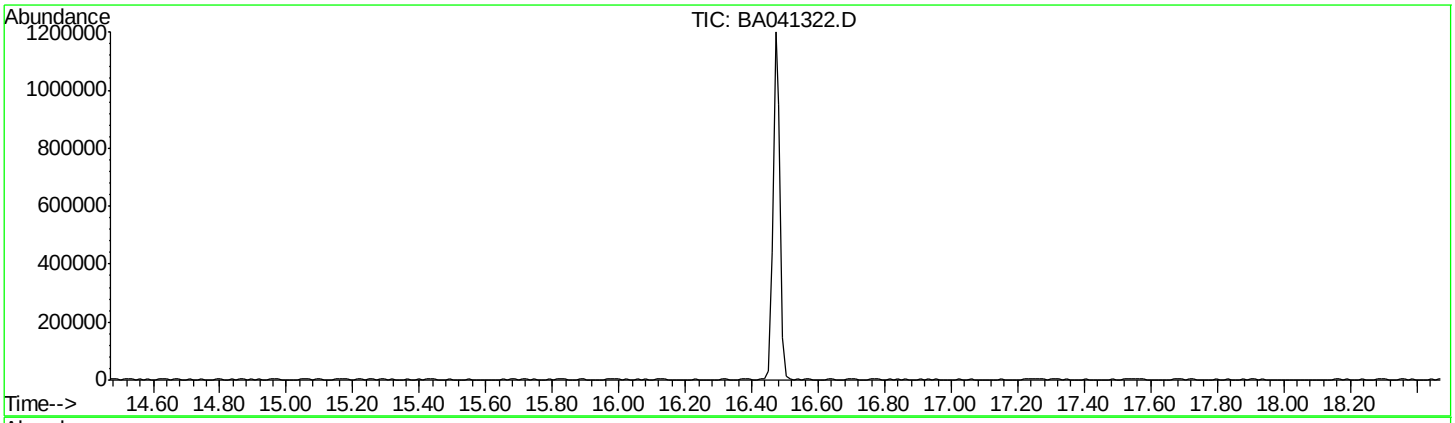
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.3	53955	PASS
68	69	0.00	2	0.7	449	PASS
69	198	0.00	100	59.5	62610	PASS
70	69	0.00	2	0.2	141	PASS
127	198	10	80	43.2	45477	PASS
197	198	0.00	1	0.1	132	PASS
198	198	100	100	100.0	105216	PASS
199	198	5	9	6.7	7009	PASS
275	198	10	60	18.2	19185	PASS
365	198	1	100	1.8	1919	PASS
441	443	0.01	100	73.6	7468	PASS
442	198	50	100	51.7	54421	PASS
443	442	15	24	18.6	10149	PASS

DFTPP

Data Path : Z:\HPCHEM1\BNA_A\Data\BA102008\
Data File : BA041322.D
Acq On : 20 Oct 2008 14:37
Operator : HNP
Sample : DFTPPBA0017
Misc : DFTPP17
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Oct 20 11:13:32 2008



AutoFind: Scans 1209, 1210, 1211; Background Corrected with Scan 1205

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	55.0	56853	PASS
68	69	0.00	2	0.6	354	PASS
69	198	0.00	100	59.3	61306	PASS
70	69	0.00	2	0.3	168	PASS
127	198	10	80	42.5	43874	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	103320	PASS
199	198	5	9	5.9	6104	PASS
275	198	10	60	20.6	21233	PASS
365	198	1	100	2.2	2308	PASS
441	443	0.01	100	75.6	8934	PASS
442	198	50	100	56.6	58529	PASS
443	442	15	24	20.2	11821	PASS

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: PB37177B

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041294.D

Level: (LOW/MED) Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: PB37177B

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041294.D

Level: (LOW/MED) Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PB37177B

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041294.D

Level: (TRACE or LOW/MED) Extraction: (Type) CONT

% Moisture: Decanted: (Y/N): N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

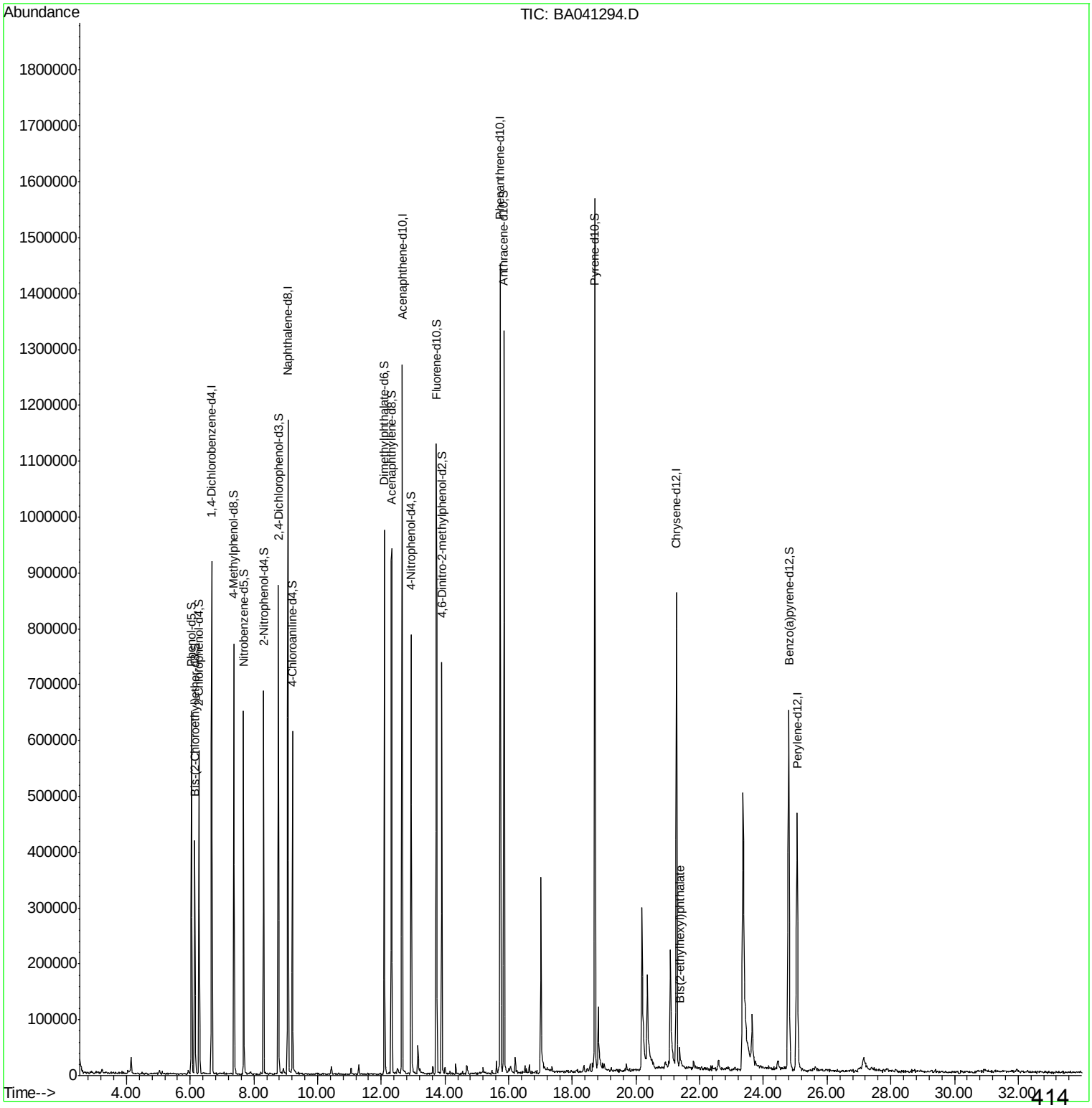
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	57-10-3	n-Hexadecanoic acid	17.01	5.4	JN
02.	1120-16-7	Dodecanamide	18.81	3.2	JN
03.	90949-53-4	7-Nonenamide	20.19	8.2	JN
04.	629-54-9	Hexadecanamide	20.36	4.9	JN
05.	1454-85-9	1-Heptadecanol	21.08	7.1	JN
06.	112-84-5	13-Docosenamide, (Z)-	23.36	25	JN
07.	111-02-4	2,6,10,14,18,22-Tetracosahexaen	23.64	3.4	JN
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.	[2] E966796	Total Alkanes	N/A		J

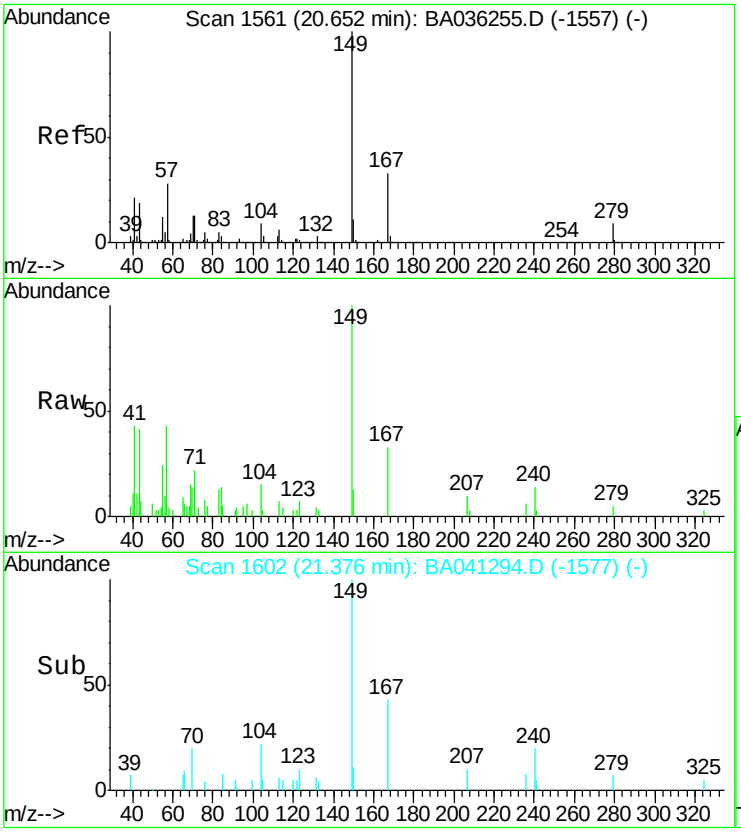
[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:01:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

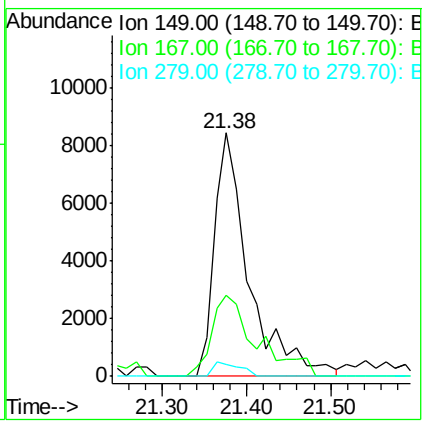




#79
Bis(2-ethylhexyl)phthalate
Concen: 1.27 ng/ul
RT: 21.38 min Scan# 1602
Delta R.T. -0.01 min
Lab File: BA041294.D
Acq: 19 Oct 2008 17:57

Tgt Ion:149 Resp: 24153

Ion	Ratio	Lower	Upper
149	100		
167	33.1	26.2	39.4
279	4.8	7.7	11.5#



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:01:01 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	227354	20.00	ng/ul	0.00
16) Naphthalene-d8	9.07	136	729640	20.00	ng/ul	-0.01
33) Acenaphthene-d10	12.66	164	517476	20.00	ng/ul	-0.01
59) Phenanthrene-d10	15.74	188	885473	20.00	ng/ul	-0.02
73) Chrysene-d12	21.27	240	677859	20.00	ng/ul	-0.02
81) Perylene-d12	25.06	264	637460	20.00	ng/ul	-0.02
System Monitoring Compounds						
3) Phenol-d5	6.04	99	230723	16.76	ng/ul	-0.02
5) Bis-(2-Chloroethyl)ether-d	6.15	67	147892	15.85	ng/ul	0.00
7) 2-Chlorophenol-d4	6.28	132	197076	16.85	ng/ul	-0.01
11) 4-Methylphenol-d8	7.37	113	166859	17.87	ng/ul	-0.02
17) Nitrobenzene-d5	7.68	128	113295	17.54	ng/ul	-0.02
20) 2-Nitrophenol-d4	8.30	143	128644	16.18	ng/ul	-0.02
24) 2,4-Dichlorophenol-d3	8.77	165	237715	16.15	ng/ul	-0.02
27) 4-Chloroaniline-d4	9.21	131	218300	15.00	ng/ul	-0.01
41) Dimethylphthalate-d6	12.10	166	619027	17.96	ng/ul	-0.01
44) Acenaphthylene-d8	12.33	160	729470	17.41	ng/ul	-0.01
49) 4-Nitrophenol-d4	12.94	143	153497	21.85	ng/ul	-0.02
55) Fluorene-d10	13.73	176	486679	17.56	ng/ul	-0.01
60) 4,6-Dinitro-2-methylphenol	13.90	200	169134	18.46	ng/ul	-0.02
68) Anthracene-d10	15.86	188	884176	20.86	ng/ul	0.00
74) Pyrene-d10	18.71	212	1075549	36.31	ng/ul	-0.01
85) Benzo(a)pyrene-d12	24.80	264	865425	24.93	ng/ul	-0.02

Target Compounds						Qvalue
79) Bis(2-ethylhexyl)phthalate	21.38	149	24153	1.27	ng/ul#	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.672	10	13	15	rBV2	3121	8688	0.31%	0.022%
2	2.778	19	22	25	rBV2	3354	7087	0.25%	0.018%
3	3.211	56	59	60	rBV2	5958	11991	0.43%	0.031%
4	4.045	127	130	133	rBV3	7113	18453	0.66%	0.047%
5	4.140	136	138	144	rVB	29176	57758	2.07%	0.149%
6	5.032	211	214	218	rBV3	6552	13580	0.49%	0.035%
7	5.125	220	222	224	rBV2	5265	7005	0.25%	0.018%
8	5.948	288	292	293	rBV2	6452	11916	0.43%	0.031%
9	6.042	297	300	306	rVV	649415	937890	33.64%	2.414%
10	6.149	306	309	317	rVV	417654	620968	22.27%	1.598%
11	6.278	317	320	328	rVB	579499	937777	33.63%	2.413%
12	6.395	328	330	332	rBV2	2675	6182	0.22%	0.016%
13	6.678	351	354	360	rVB	918369	1508708	54.11%	3.882%
14	7.371	410	413	416	rBV	771214	1055394	37.85%	2.716%
15	7.677	436	439	442	rBV	650589	956827	34.32%	2.462%
16	7.901	455	458	459	rVB3	4536	8025	0.29%	0.021%
17	8.219	483	485	486	rBV	4864	6666	0.24%	0.017%
18	8.302	489	492	495	rBV	686965	932572	33.45%	2.400%
19	8.773	529	532	535	rBV	875883	1236996	44.37%	3.183%
20	8.926	543	545	554	rVB6	8735	9004	0.32%	0.023%
21	9.068	554	557	560	rBV	1168701	1630874	58.49%	4.197%
22	9.209	566	569	574	rBV	610473	929923	33.35%	2.393%
23	9.952	629	632	634	rBV	2774	6211	0.22%	0.016%
24	10.175	646	651	652	rVB	3556	7227	0.26%	0.019%
25	10.434	670	673	677	rVB3	15205	35385	1.27%	0.091%
26	10.517	677	680	684	rVB2	2677	6837	0.25%	0.018%
27	11.046	723	725	727	rVB	11012	16833	0.60%	0.043%
28	11.293	742	746	750	rVB2	17708	32286	1.16%	0.083%
29	12.104	811	815	818	rBV	975163	1539930	55.23%	3.963%
30	12.328	830	834	837	rBV	939377	1627948	58.39%	4.189%
31	12.505	846	849	858	rVB5	9655	30198	1.08%	0.078%
32	12.657	858	862	865	rBV	1270271	2065509	74.08%	5.315%
33	12.940	882	886	894	rBV	788104	1307694	46.90%	3.365%
34	13.153	900	904	908	rBV	52016	106316	3.81%	0.274%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.612	940	943	946	rBV3	13357	24844	0.89%	0.064%
36	13.730	950	953	957	rVB	1123202	1820758	65.30%	4.686%
37	13.895	964	967	971	rBV	735643	1121712	40.23%	2.887%
38	14.000	974	976	978	rVB2	11959	20122	0.72%	0.052%
39	14.165	988	990	992	rVB2	5889	7584	0.27%	0.020%
40	14.212	992	994	997	rBV2	2693	6295	0.23%	0.016%
41	14.340	1002	1005	1007	rBV3	19287	30086	1.08%	0.077%
42	14.681	1032	1034	1040	rBV3	15561	42557	1.53%	0.110%
43	14.939	1054	1056	1060	rVB	3603	9160	0.33%	0.024%
44	15.104	1064	1070	1071	rBV2	3980	11951	0.43%	0.031%
45	15.197	1076	1078	1079	rVB	8859	7984	0.29%	0.021%
46	15.480	1099	1102	1104	rBV2	6923	11485	0.41%	0.030%
47	15.621	1112	1114	1117	rBV	22915	31081	1.11%	0.080%
48	15.739	1120	1124	1128	rVV	1445981	2289436	82.11%	5.892%
49	15.856	1130	1134	1138	rBV	1326836	2219059	79.59%	5.710%
50	16.056	1149	1151	1155	rVB2	9492	22082	0.79%	0.057%
51	16.209	1161	1164	1166	rBV	28487	47946	1.72%	0.123%
52	16.514	1188	1190	1192	rBV	12820	18379	0.66%	0.047%
53	16.561	1192	1194	1196	rVV	9156	13288	0.48%	0.034%
54	16.656	1199	1202	1206	rVB4	16226	28815	1.03%	0.074%
55	16.726	1206	1208	1210	rBV2	5558	7644	0.27%	0.020%
56	16.892	1220	1222	1225	rVB3	6189	9963	0.36%	0.026%
57	17.010	1228	1232	1240	rBV2	348971	617405	22.14%	1.589%
58	17.365	1260	1262	1264	rVB2	10611	14601	0.52%	0.038%
59	17.824	1299	1301	1302	rBV2	5232	6277	0.23%	0.016%
60	17.965	1310	1313	1314	rBV2	4265	6831	0.24%	0.018%
61	18.176	1329	1331	1333	rVB	6742	9964	0.36%	0.026%
62	18.365	1344	1347	1350	rVB2	12522	24908	0.89%	0.064%
63	18.554	1360	1363	1367	rVB2	14290	26884	0.96%	0.069%
64	18.637	1368	1370	1372	rBV	14773	25724	0.92%	0.066%
65	18.707	1372	1376	1380	rVV	1560404	2788164	100.00%	7.175%
66	18.814	1382	1385	1395	rVB2	111036	276948	9.93%	0.713%
67	20.193	1498	1502	1510	rBV	284056	710896	25.50%	1.829%
68	20.359	1512	1516	1527	rVB	156710	423900	15.20%	1.091%
69	21.020	1570	1572	1574	rBV3	11666	22412	0.80%	0.058%
70	21.080	1574	1577	1586	rVV2	211555	616141	22.10%	1.586%
71	21.269	1589	1593	1599	rVV	848756	1725903	61.90%	4.441%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

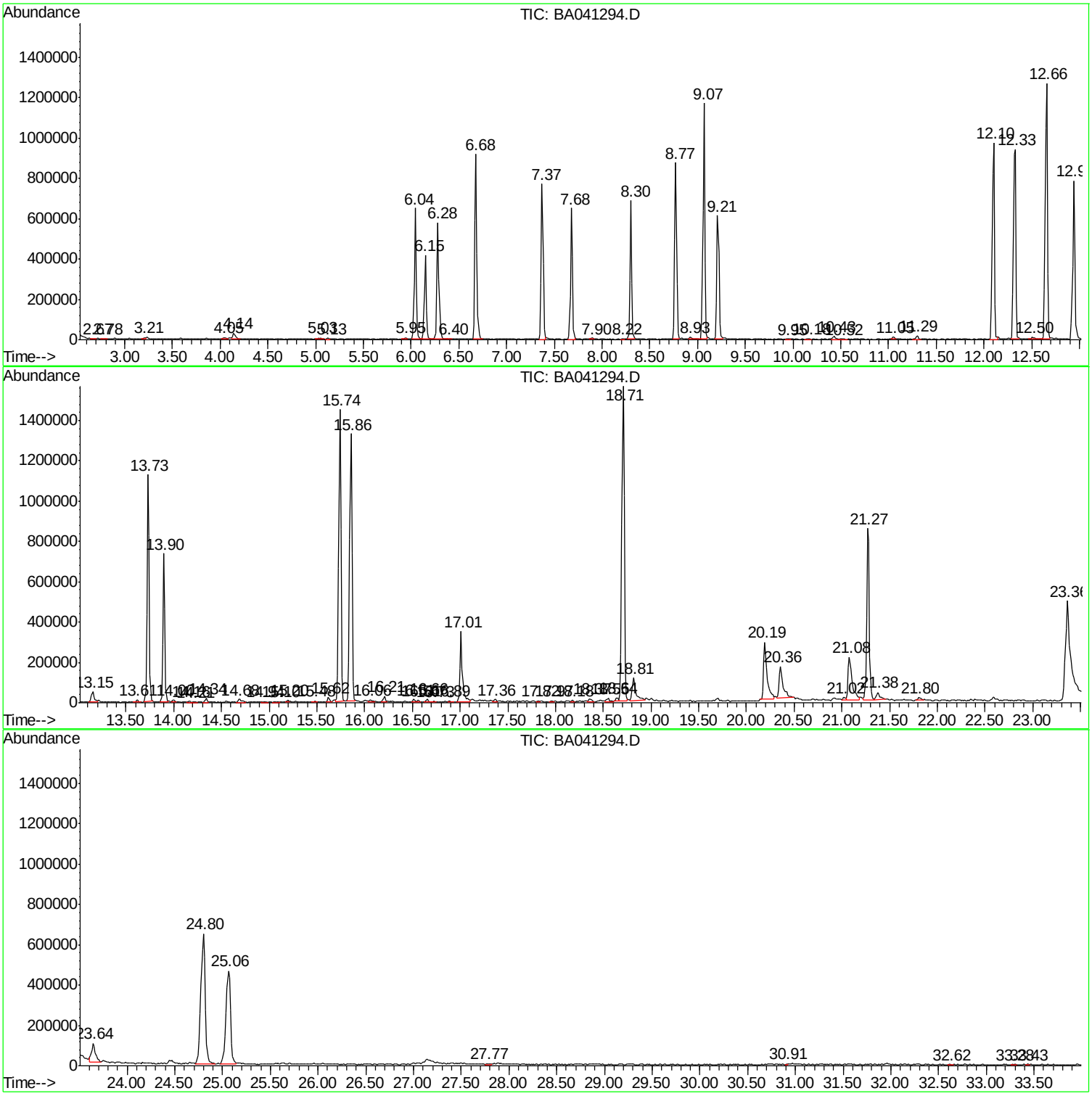
72	21.376	1599	1602	1609	rVB2	34945	90765	3.26%	0.234%
73	21.802	1636	1638	1642	rBV4	14405	33691	1.21%	0.087%
74	23.360	1765	1770	1783	rBV	491786	1959881	70.29%	5.044%
75	23.643	1791	1794	1801	rVB	92719	264678	9.49%	0.681%
76	24.799	1885	1892	1902	rVB	646279	2121221	76.08%	5.459%
77	25.059	1907	1914	1921	rBV	459510	1548939	55.55%	3.986%
78	27.773	2142	2144	2148	rBV4	5749	15131	0.54%	0.039%
79	30.908	2409	2410	2411	rBV	5881	6719	0.24%	0.017%
80	32.618	2553	2555	2558	rBV	4069	8587	0.31%	0.022%
81	33.278	2609	2611	2614	rVB	3615	5999	0.22%	0.015%
82	33.430	2622	2624	2626	rVB2	4843	7912	0.28%	0.020%

Sum of corrected areas: 38859370

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

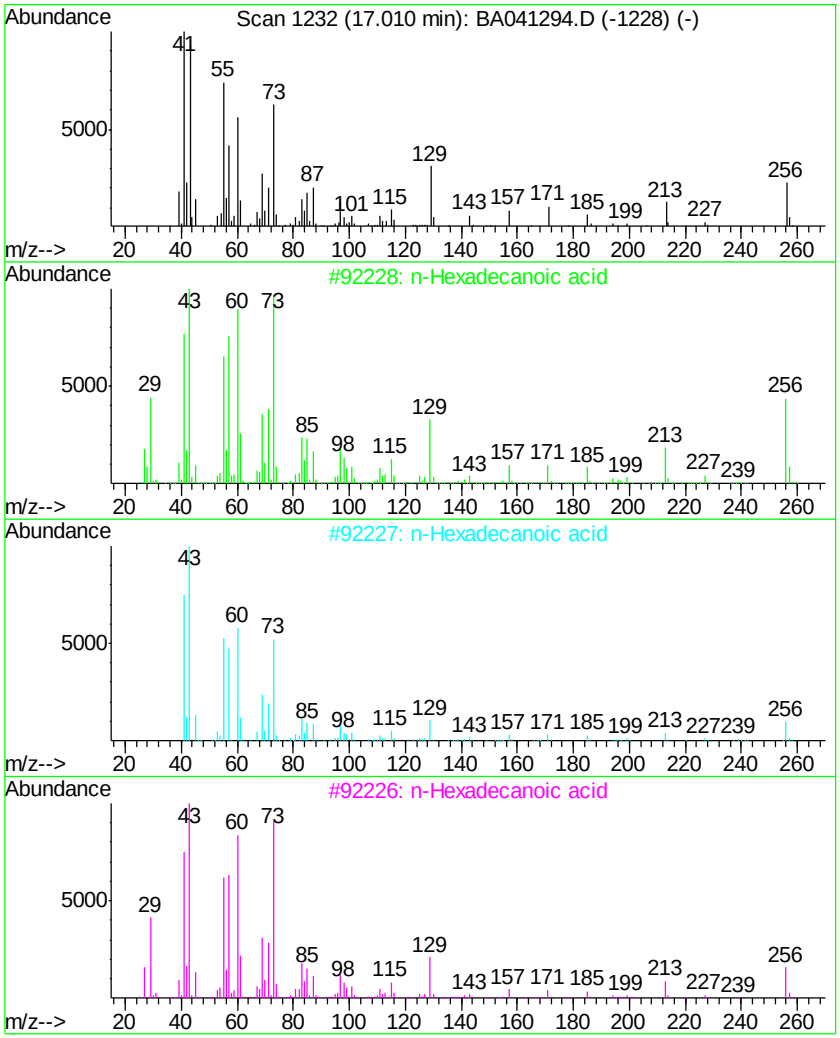
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

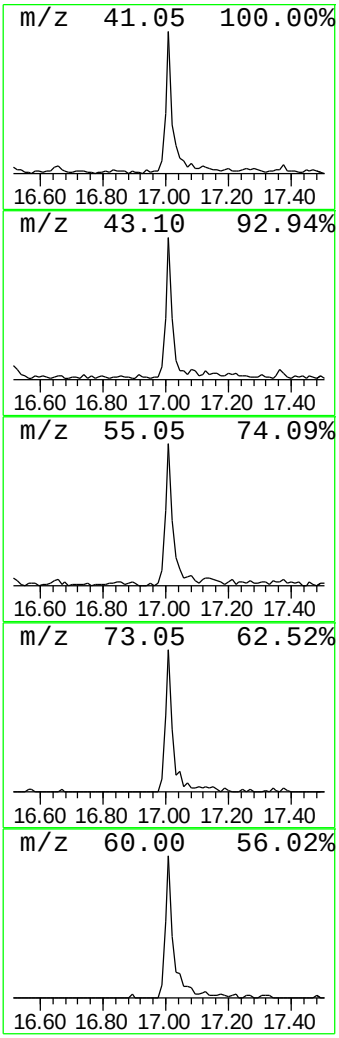
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.01	5.39 ng/ul	617405	Phenanthrene-d10	15.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	95
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	81
4	Undecanoic acid	186	C11H22O2	000112-37-8	68
5	Tridecanoic acid	214	C13H26O2	000638-53-9	64





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

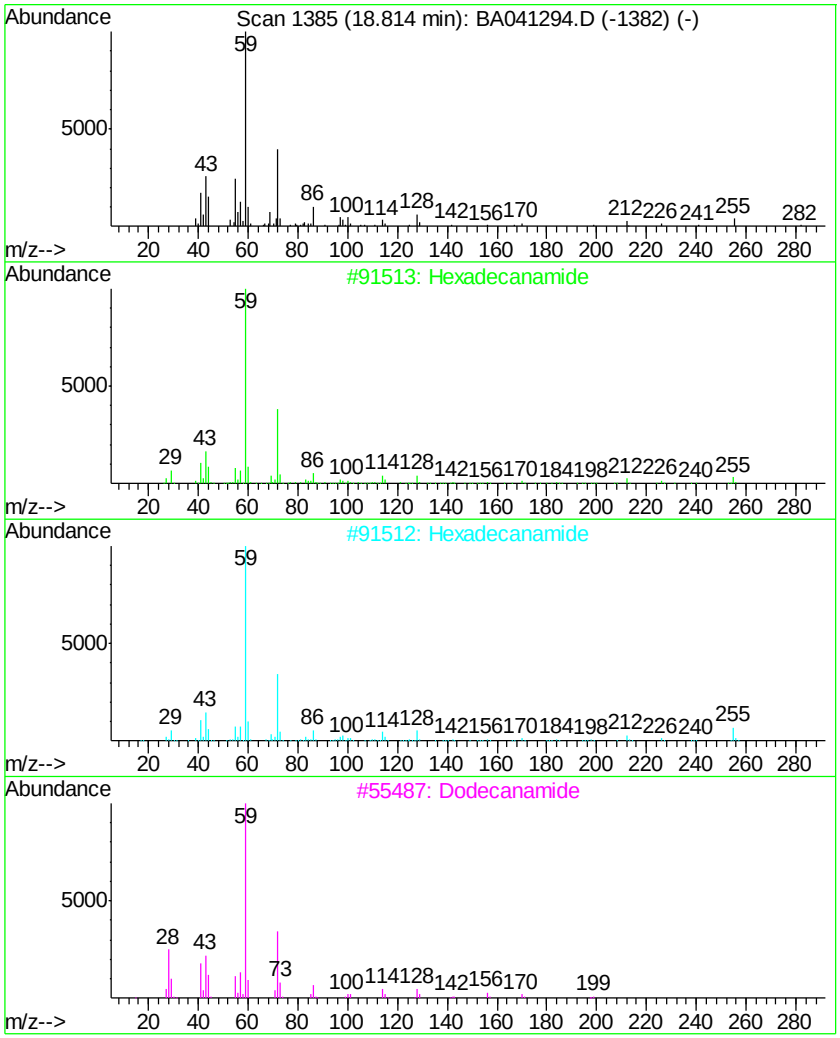
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

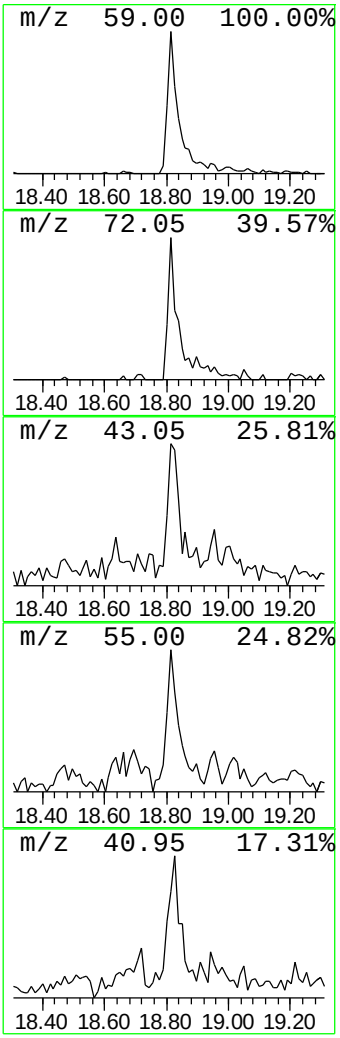
****

Peak Number 2 Dodecanamide Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.81	3.21 ng/ul	276948	Chrysene-d12	21.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanamide	255	C16H33NO	000629-54-9	95
2	Hexadecanamide	255	C16H33NO	000629-54-9	91
3	Dodecanamide	199	C12H25NO	001120-16-7	81
4	Tetradecanamide	227	C14H29NO	000638-58-4	78
5	Pentadecanamide, 15-bromo-	319	C15H30BrNO	1000163-86-1	64





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

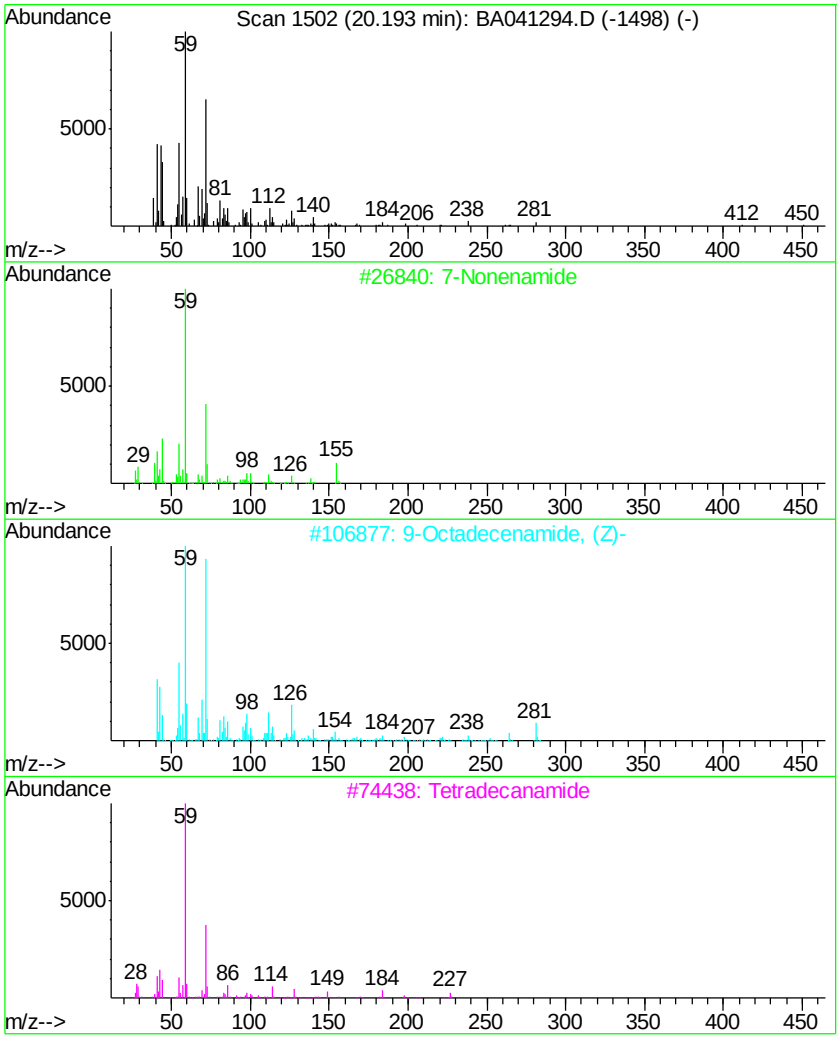
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

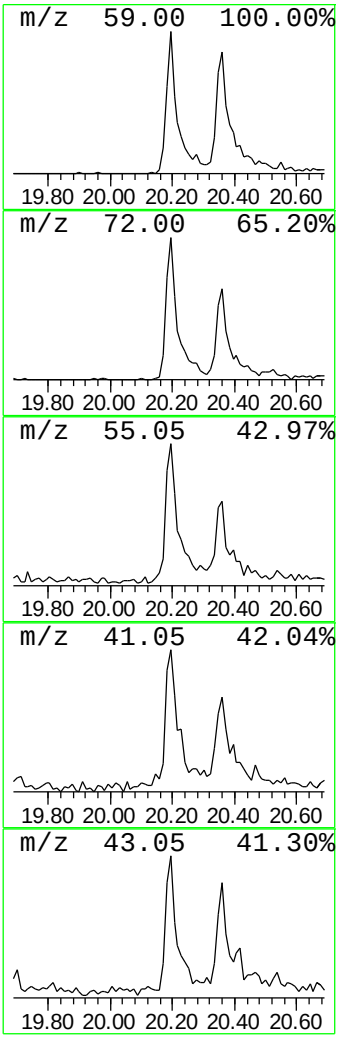
****

Peak Number 3 7-Nonenamide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.19	8.24 ng/ul	710896	Chrysene-d12	21.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Nonenamide	155	C9H17NO	090949-53-4	64
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	55
3	Tetradecanamide	227	C14H29NO	000638-58-4	53
4	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	53
5	Hexadecanamide	255	C16H33NO	000629-54-9	50





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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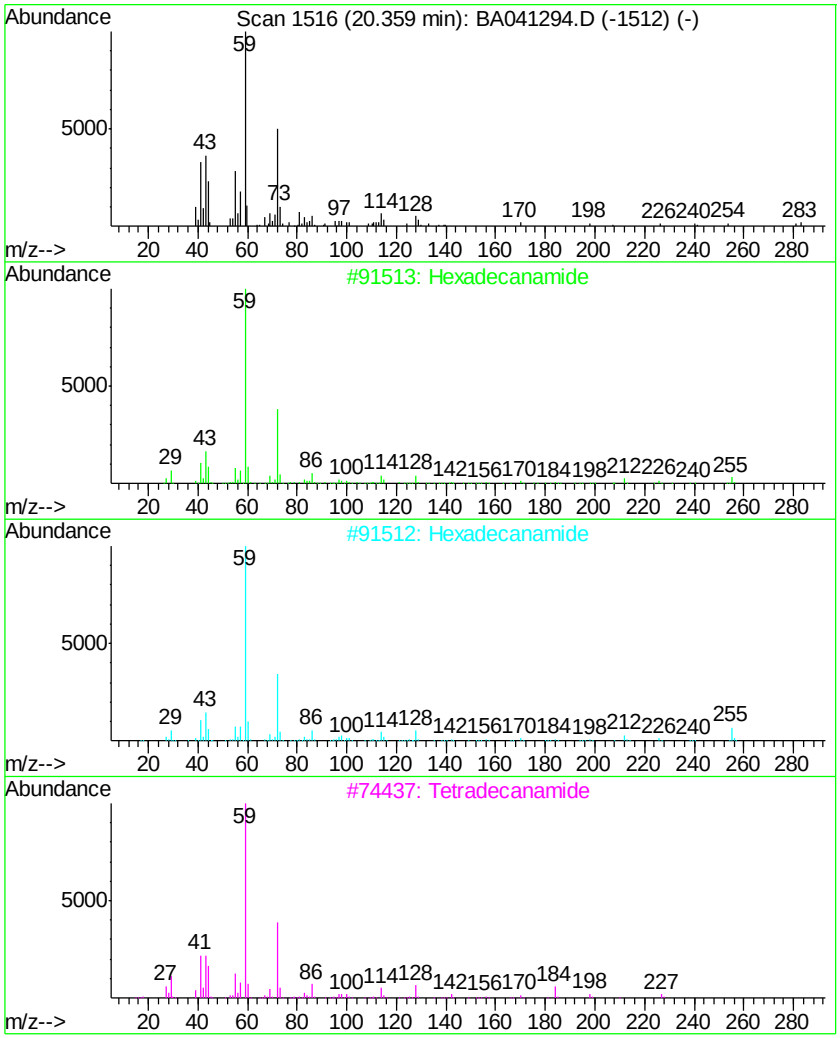
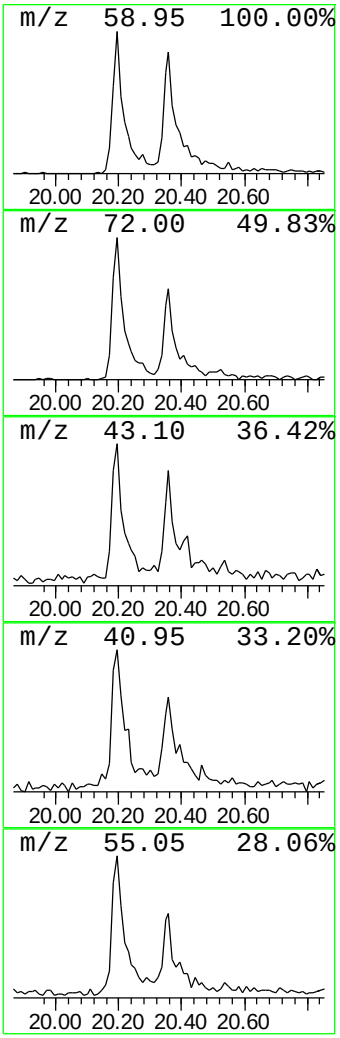
Peak Number 4 Hexadecanamide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.36	4.91 ng/ul	423900	Chrysene-d12	21.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanamide	255	C16H33NO	000629-54-9	72
2	Hexadecanamide	255	C16H33NO	000629-54-9	64
3	Tetradecanamide	227	C14H29NO	000638-58-4	59
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	59
5	Tetradecanamide	227	C14H29NO	000638-58-4	59





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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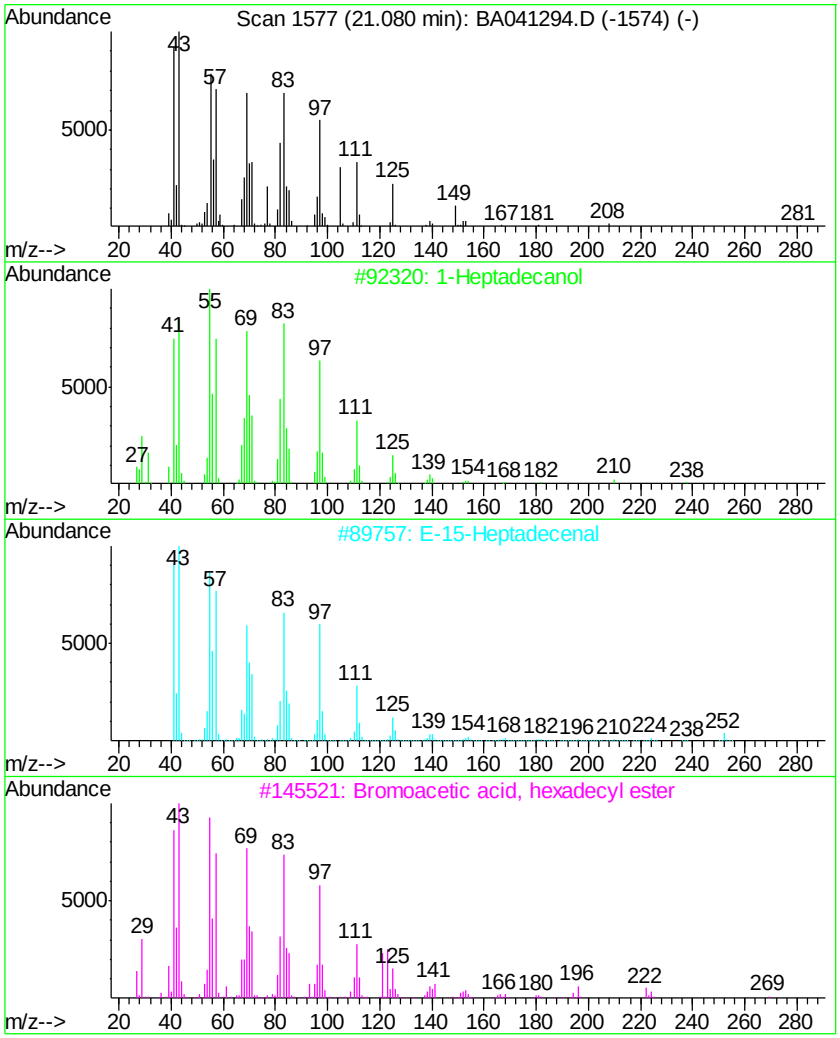
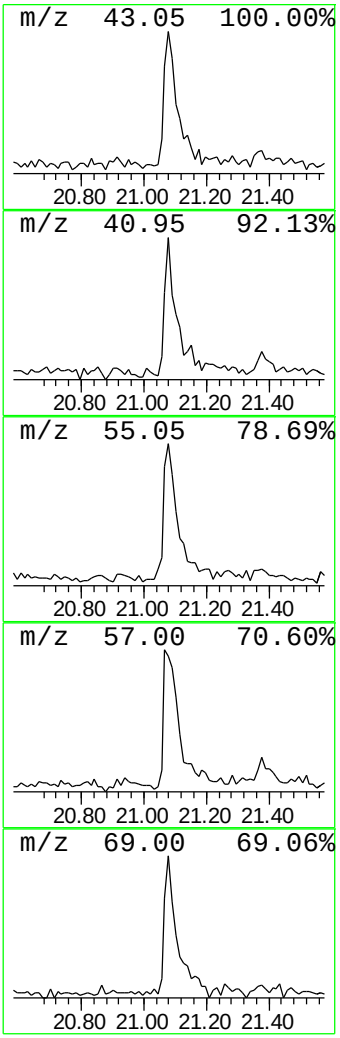
Peak Number 5 1-Heptadecanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.08	7.14 ng/ul	616141	Chrysene-d12	21.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptadecanol	256	C17H36O	001454-85-9	81
2	E-15-Heptadecenal	252	C17H32O	1000130-97-9	70
3	Bromoacetic acid, hexadecyl ester	362	C18H35BrO2	005454-48-8	68
4	1-Nonadecanol	284	C19H40O	001454-84-8	64
5	Bromoacetic acid, pentadecyl ester	348	C17H33BrO2	131143-01-6	62





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On    : 19 Oct 2008  17:57
Operator  : QM
Sample    : PB37177B
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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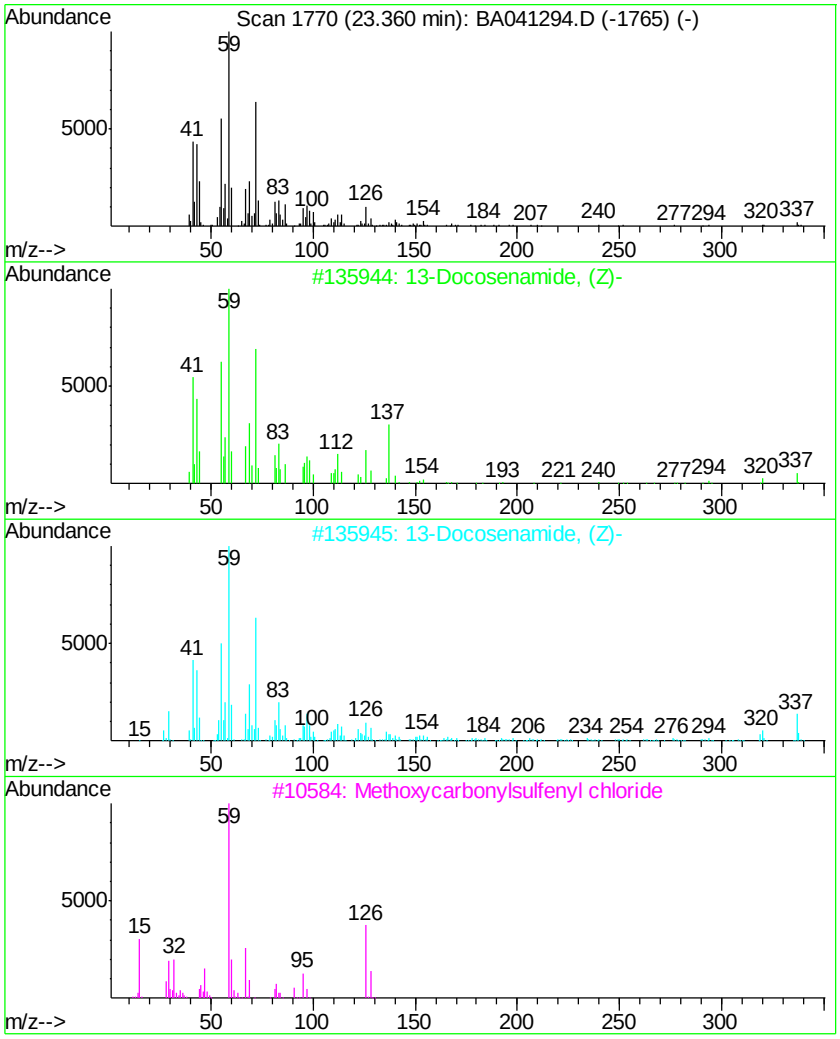
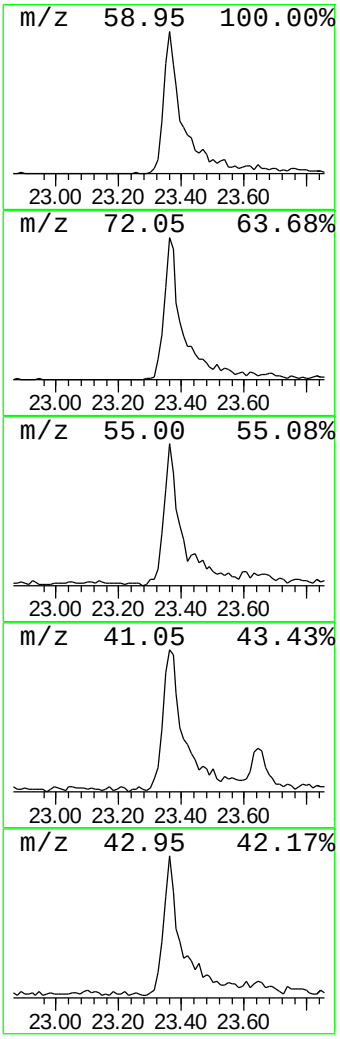
Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.36	25.31 ng/ul	1959880	Perylene-d12	25.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	81
2	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	76
3	Methoxycarbonylsulfenyl chloride	126	C2H3ClO2S	026555-40-8	50
4	d-Glucosamine	179	C6H13NO5	000090-77-7	42
5	7-Nonenamide	155	C9H17NO	090949-53-4	42





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On    : 19 Oct 2008  17:57
Operator  : QM
Sample    : PB37177B
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

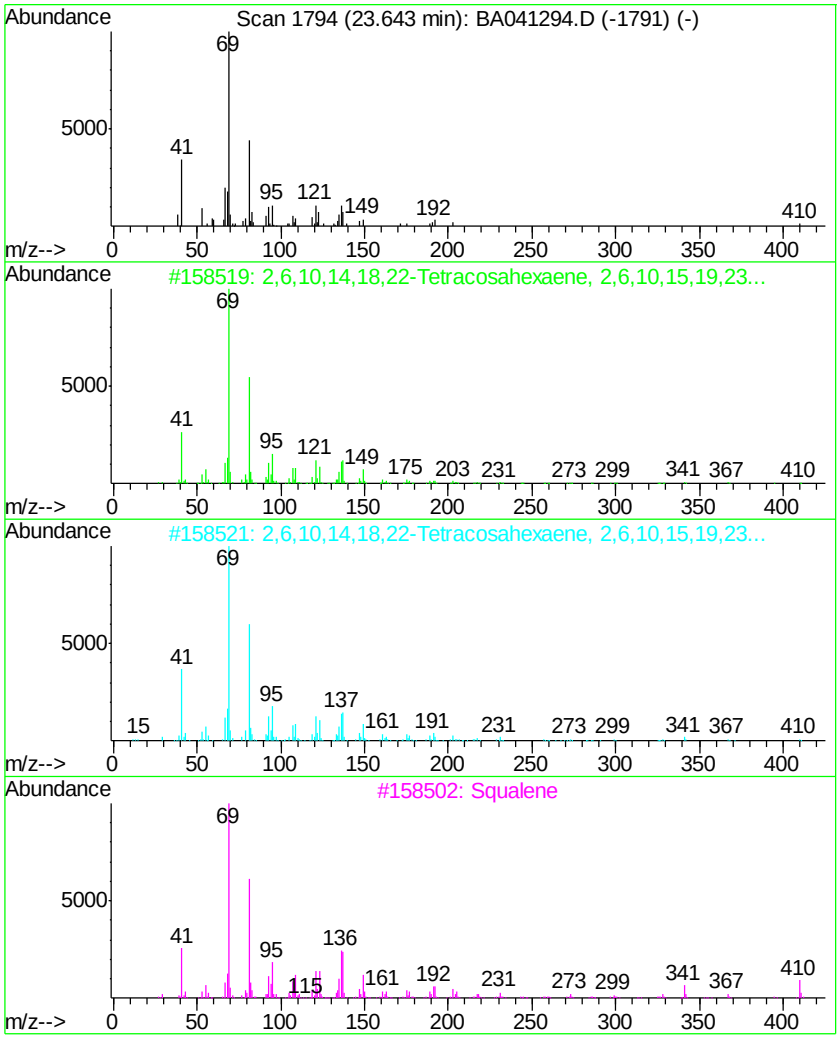
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

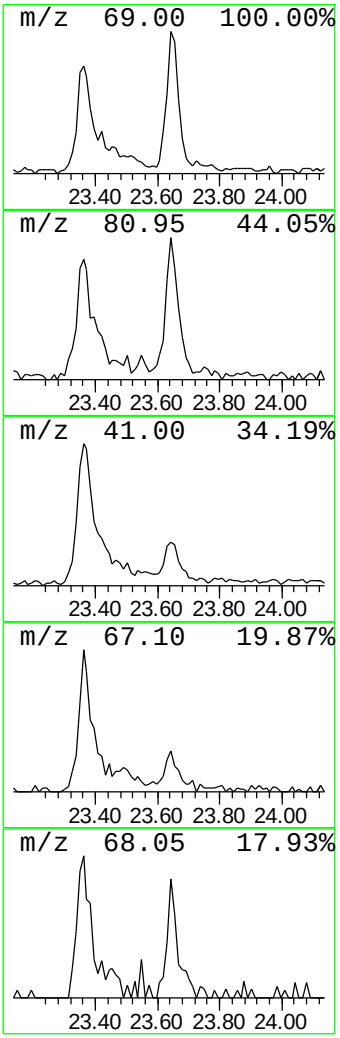
****

Peak Number 7 2,6,10,14,18,22-Tetracosahe... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.64	3.42 ng/ul	264678	Perylene-d12	25.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	87
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	81
3	Squalene	410	C30H50	007683-64-9	74
4	3,7,11-Tridecatrienenitrile, 4,8...	231	C16H25N	006006-01-5	72
5	Squalene	410	C30H50	007683-64-9	68





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041294.D
Acq On : 19 Oct 2008 17:57
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic acid	17.01	5.4	ng/ul	617405	4	15.74	2289440	20.0
Dodecanamide	18.81	3.2	ng/ul	276948	5	21.27	1725900	20.0
7-Nonenamide	20.19	8.2	ng/ul	710896	5	21.27	1725900	20.0
Hexadecanamide	20.36	4.9	ng/ul	423900	5	21.27	1725900	20.0
1-Heptadecanol	21.08	7.1	ng/ul	616141	5	21.27	1725900	20.0
13-Docosenamide, ...	23.36	25.3	ng/ul	1959880	6	25.06	1548940	20.0
2,6,10,14,18,22-T...	23.64	3.4	ng/ul	264678	6	25.06	1548940	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02RE

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: PB37177BRE

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041301.D

Level: (LOW/MED) Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02RE

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): WATER Lab Sample ID: PB37177BRE

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041301.D

Level: (LOW/MED) Extraction: (Type) CONT

% Moisture: Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine[1]	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK02RE

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: PB37177BRE

Sample wt/vol: 1000 (g/mL) mL Lab File ID: BA041301.D

Level: (TRACE or LOW/MED) Extraction: (Type) CONT

% Moisture: Decanted: (Y/N): N Date Received:

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/19/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

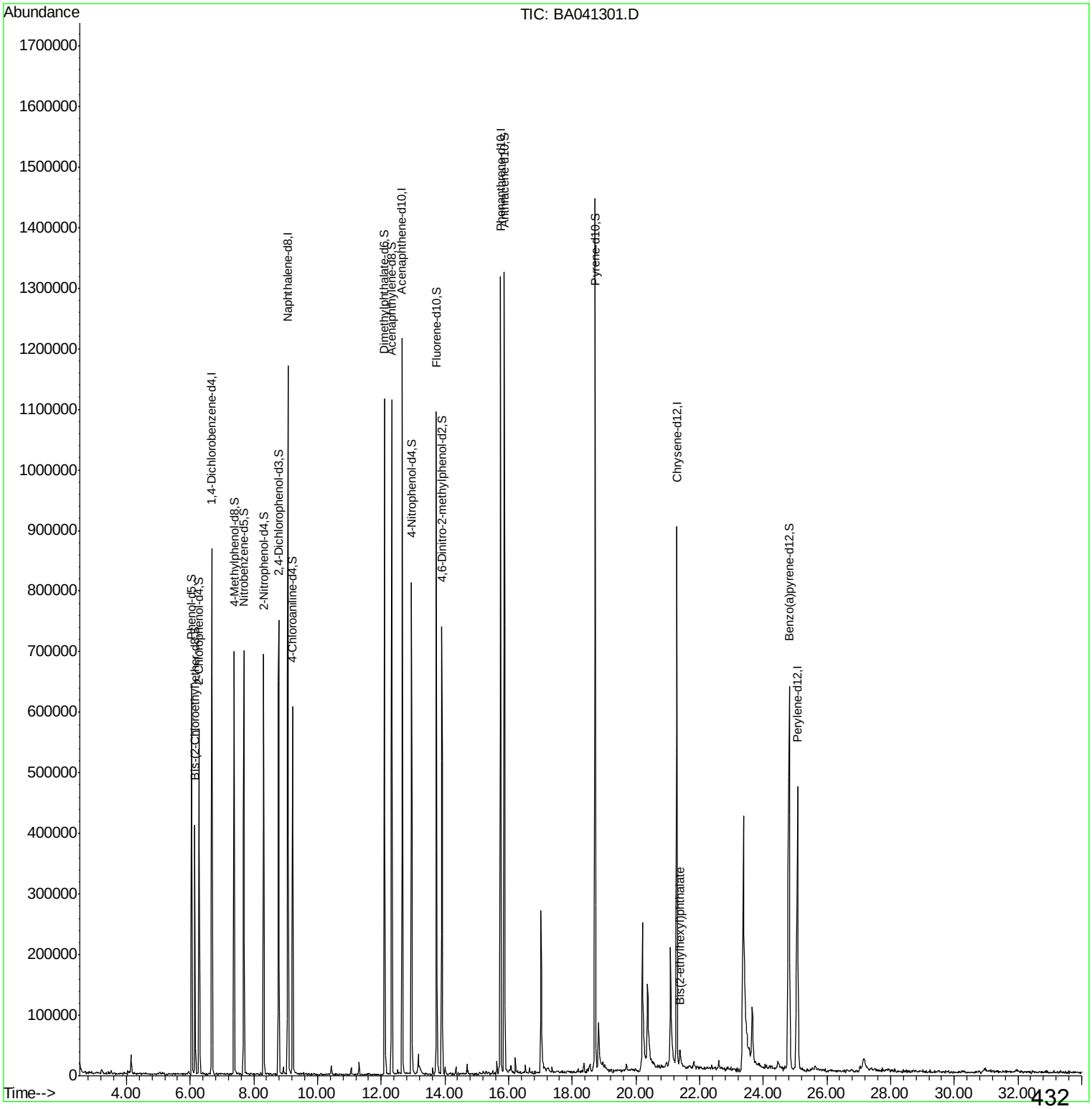
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	57-10-3	n-Hexadecanoic acid	17.02	4.5	JN
02.	1119-29-5	Pentanamide, 4-methyl-	18.82	2.4	JN
03.	301-02-0	9-Octadecenamide, (Z)-	20.20	7.4	JN
04.	4441-62-7	4-Cyclohexylbutyramide	20.37	5.0	JN
05.	74685-30-6	5-Eicosene, (E)-	21.09	6.4	JN
06.	112-84-5	13-Docosenamide, (Z)-	23.37	25	JN
07.	111-02-4	2,6,10,14,18,22-Tetracosahexaen	23.66	3.4	JN
08.					
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.	[2] E966796	Total Alkanes	N/A		J

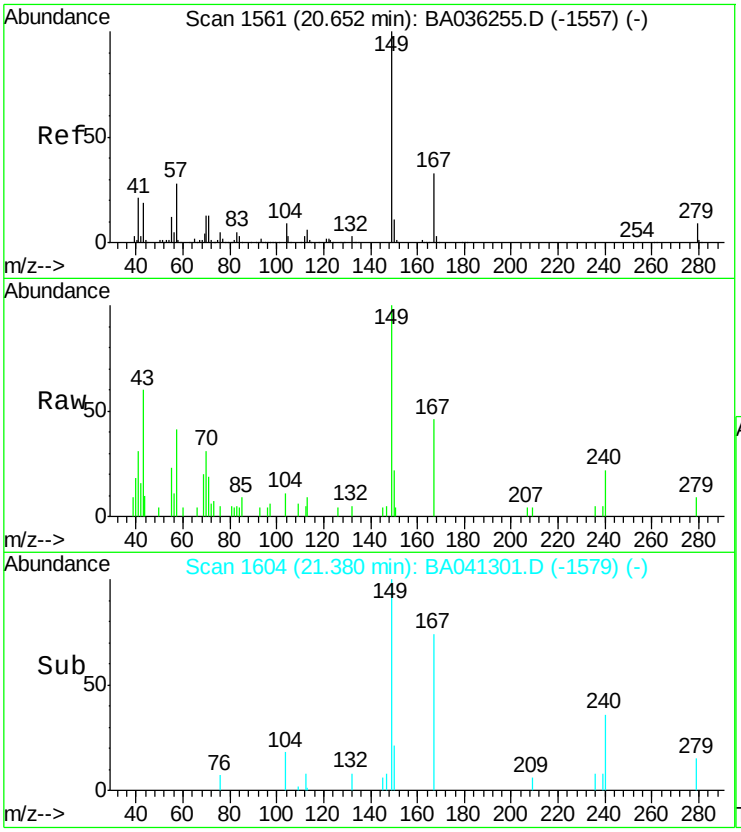
[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:11:20 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

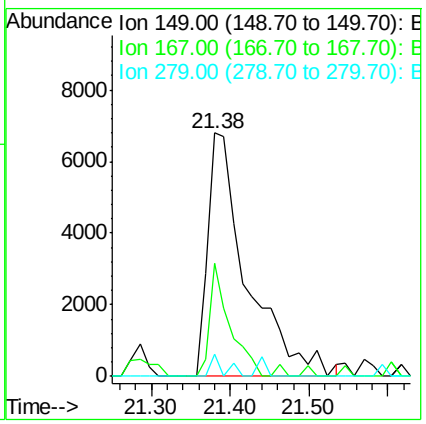




#79
Bis(2-ethylhexyl)phthalate
Concen: 1.30 ng/ul
RT: 21.38 min Scan# 1604
Delta R.T. -0.00 min
Lab File: BA041301.D
Acq: 19 Oct 2008 22:46

Tgt Ion:149 Resp: 23529

Ion	Ratio	Lower	Upper
149	100		
167	46.3	26.2	39.4#
279	9.1	7.7	11.5



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 12:11:20 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	221866	20.00	ng/ul	0.00
16) Naphthalene-d8	9.07	136	716685	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.66	164	507672	20.00	ng/ul	-0.01
59) Phenanthrene-d10	15.75	188	873890	20.00	ng/ul	0.00
73) Chrysene-d12	21.29	240	645097	20.00	ng/ul	0.00
81) Perylene-d12	25.08	264	610468	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.04	99	232796	17.33	ng/ul	-0.01
5) Bis-(2-Chloroethyl)ether-d	6.15	67	147732	16.22	ng/ul	0.00
7) 2-Chlorophenol-d4	6.28	132	196375	17.20	ng/ul	-0.01
11) 4-Methylphenol-d8	7.38	113	164936	18.10	ng/ul	0.00
17) Nitrobenzene-d5	7.69	128	109525	17.26	ng/ul	0.00
20) 2-Nitrophenol-d4	8.31	143	142141	18.20	ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.78	165	221117	15.30	ng/ul	0.00
27) 4-Chloroaniline-d4	9.22	131	210670	14.74	ng/ul	0.00
41) Dimethylphthalate-d6	12.11	166	591208	17.49	ng/ul	0.00
44) Acenaphthylene-d8	12.33	160	709432	17.26	ng/ul	0.00
49) 4-Nitrophenol-d4	12.95	143	149830	21.74	ng/ul	-0.01
55) Fluorene-d10	13.74	176	479881	17.65	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.90	200	164051	18.14	ng/ul	-0.02
68) Anthracene-d10	15.87	188	839979	20.08	ng/ul	0.00
74) Pyrene-d10	18.72	212	1053127	37.36	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.82	264	884832	26.62	ng/ul	0.00
Target Compounds						Qvalue
79) Bis(2-ethylhexyl)phthalate	21.38	149	23529	1.30	ng/ul#	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.826	24	26	28	rBV	3754	6006	0.23%	0.016%
2	2.908	31	33	38	rVB2	3702	6029	0.23%	0.016%
3	3.237	57	61	63	rBV3	6690	20144	0.76%	0.053%
4	3.425	74	77	79	rBV	5084	8929	0.34%	0.023%
5	3.519	83	85	90	rVB	5851	10758	0.40%	0.028%
6	3.908	117	118	122	rBV3	3586	9778	0.37%	0.026%
7	4.036	128	129	133	rBV2	7089	18775	0.70%	0.049%
8	4.142	135	138	143	rVB	32452	63299	2.38%	0.167%
9	4.484	165	167	170	rBV2	2298	6112	0.23%	0.016%
10	4.964	205	208	210	rBV	2169	5699	0.21%	0.015%
11	5.035	212	214	215	rBV2	3686	5948	0.22%	0.016%
12	5.492	249	253	256	rVB2	2309	7677	0.29%	0.020%
13	5.950	289	292	295	rBV3	4246	11340	0.43%	0.030%
14	6.044	297	300	306	rBV	644298	974532	36.58%	2.563%
15	6.150	306	309	314	rVV	411493	598131	22.45%	1.573%
16	6.279	317	320	326	rVB	569670	930127	34.92%	2.447%
17	6.571	343	345	347	rBV	2252	5495	0.21%	0.014%
18	6.676	351	354	362	rVB	868252	1472842	55.29%	3.874%
19	7.382	410	414	417	rBV	697506	1074121	40.32%	2.825%
20	7.687	437	440	443	rBV	696561	977235	36.68%	2.571%
21	7.887	455	457	461	rBV2	3434	7746	0.29%	0.020%
22	8.215	483	485	488	rBV2	4043	5988	0.22%	0.016%
23	8.310	490	493	496	rBV	692969	966164	36.27%	2.541%
24	8.592	515	517	520	rBV2	2638	6509	0.24%	0.017%
25	8.781	530	533	536	rBV	748982	1207701	45.34%	3.177%
26	8.934	543	546	551	rVB3	13092	21820	0.82%	0.057%
27	9.074	554	558	561	rBV	1168473	1646515	61.81%	4.331%
28	9.215	567	570	578	rBV	606412	930365	34.93%	2.447%
29	9.463	589	591	594	rVB	2844	6395	0.24%	0.017%
30	9.604	601	603	607	rBV2	2179	7586	0.28%	0.020%
31	10.426	671	673	678	rVB2	14621	30928	1.16%	0.081%
32	11.060	723	727	729	rBV2	11459	18942	0.71%	0.050%
33	11.308	745	748	751	rVB2	21446	29275	1.10%	0.077%
34	12.108	813	816	819	rBV	1115197	1534960	57.62%	4.038%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.155	819	820	823	rVB	9707	8454	0.32%	0.022%
36	12.330	832	835	838	rBV	1113958	1638446	61.51%	4.310%
37	12.517	849	851	853	rVB	7633	9187	0.34%	0.024%
38	12.658	860	863	867	rBV	1213475	2041174	76.62%	5.369%
39	12.787	873	874	878	rVB2	3665	6768	0.25%	0.018%
40	12.870	878	881	884	rBV2	2148	5677	0.21%	0.015%
41	12.952	884	888	891	rBV	811692	1285520	48.26%	3.381%
42	13.164	903	906	908	rBV	32011	68640	2.58%	0.181%
43	13.621	942	945	948	rVB2	11945	21691	0.81%	0.057%
44	13.738	952	955	959	rVB	1088633	1789136	67.16%	4.706%
45	13.903	966	969	973	rBV	738682	1137553	42.70%	2.992%
46	14.009	975	978	981	rBV3	13214	26287	0.99%	0.069%
47	14.172	985	992	995	rVB2	4140	17223	0.65%	0.045%
48	14.242	995	998	999	rBV2	3602	7508	0.28%	0.020%
49	14.347	1003	1007	1010	rVB2	13957	25319	0.95%	0.067%
50	14.418	1010	1013	1016	rBV2	3998	6756	0.25%	0.018%
51	14.700	1034	1037	1038	rBV2	15240	20626	0.77%	0.054%
52	15.007	1061	1063	1067	rVB	3863	9175	0.34%	0.024%
53	15.089	1067	1070	1074	rBV2	4655	15036	0.56%	0.040%
54	15.206	1078	1080	1081	rVV	5356	8675	0.33%	0.023%
55	15.300	1085	1088	1091	rVV2	4016	8124	0.30%	0.021%
56	15.501	1103	1105	1107	rVB2	5736	7621	0.29%	0.020%
57	15.630	1113	1116	1119	rBV2	22390	35074	1.32%	0.092%
58	15.701	1119	1122	1123	rBV	13533	21421	0.80%	0.056%
59	15.748	1123	1126	1130	rVV	1313436	2239128	84.06%	5.890%
60	15.866	1132	1136	1140	rBV	1319238	2156146	80.94%	5.672%
61	16.019	1147	1149	1151	rBV2	5312	9404	0.35%	0.025%
62	16.066	1151	1153	1157	rVB2	11098	21204	0.80%	0.056%
63	16.219	1163	1166	1169	rBV	26481	43581	1.64%	0.115%
64	16.525	1190	1192	1196	rBV2	14517	21793	0.82%	0.057%
65	16.664	1201	1204	1207	rVB	9845	16258	0.61%	0.043%
66	16.841	1215	1219	1220	rVB3	5061	10152	0.38%	0.027%
67	16.888	1220	1223	1224	rBV2	2805	6128	0.23%	0.016%
68	17.018	1231	1234	1241	rBV2	268432	508752	19.10%	1.338%
69	17.372	1263	1264	1267	rVB3	10864	14432	0.54%	0.038%
70	17.655	1286	1288	1291	rBV2	3494	7796	0.29%	0.021%
71	17.832	1301	1303	1305	rBV2	4317	10280	0.39%	0.027%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

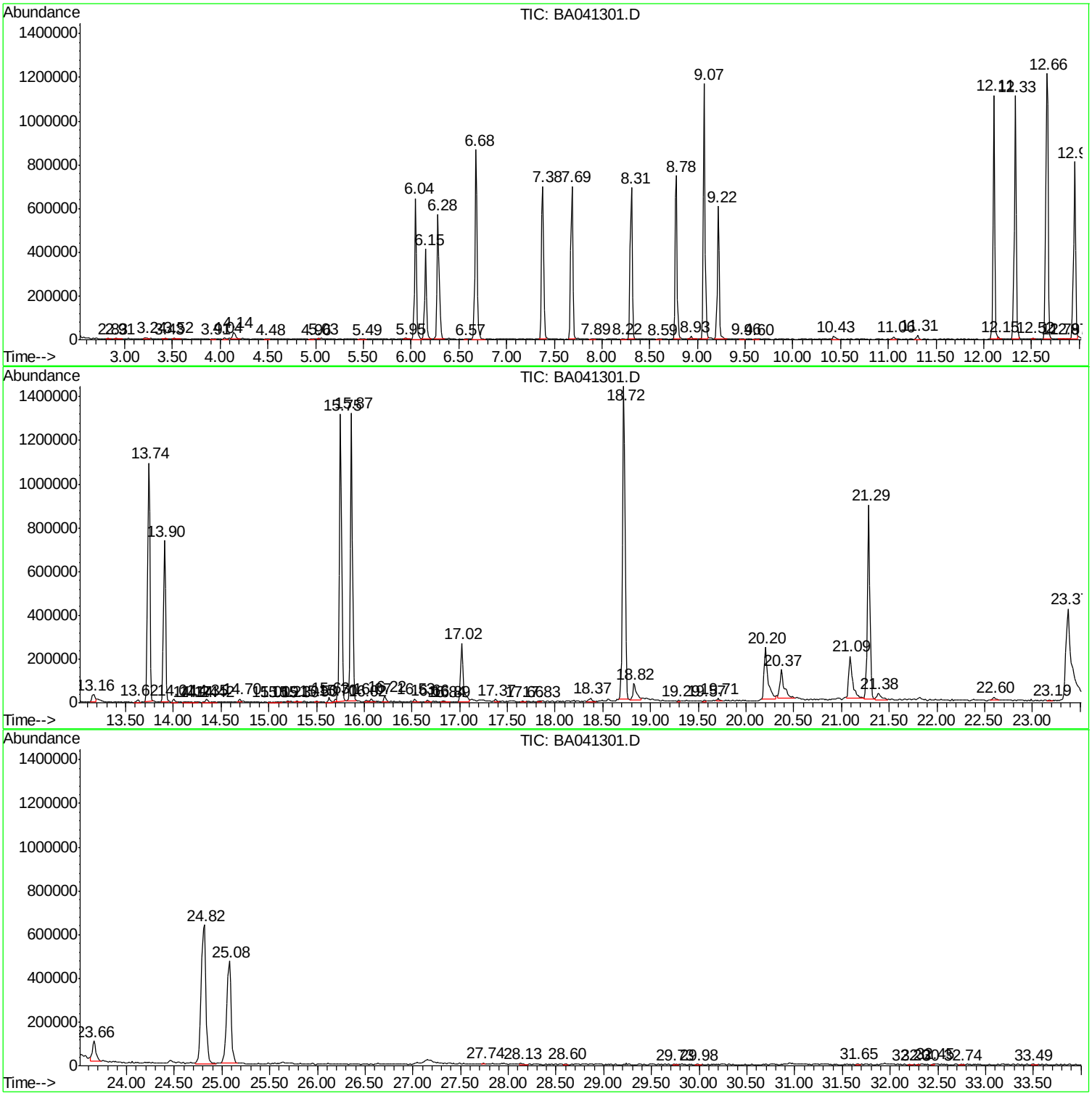
72	18.374	1345	1349	1353	rVB2	16290	36603	1.37%	0.096%
73	18.716	1374	1378	1382	rBV	1432362	2663866	100.00%	7.007%
74	18.821	1384	1387	1394	rBV	73246	194508	7.30%	0.512%
75	19.293	1426	1427	1428	rBV	6042	5796	0.22%	0.015%
76	19.565	1448	1450	1451	rBV2	5197	7544	0.28%	0.020%
77	19.707	1460	1462	1465	rVB3	11806	19095	0.72%	0.050%
78	20.201	1501	1504	1513	rBV2	234013	606381	22.76%	1.595%
79	20.367	1515	1518	1530	rVB	131133	406319	15.25%	1.069%
80	21.085	1576	1579	1592	rVV2	191076	523288	19.64%	1.376%
81	21.285	1592	1596	1601	rVV	888729	1638736	61.52%	4.311%
82	21.380	1602	1604	1612	rVB3	28314	88519	3.32%	0.233%
83	22.596	1704	1707	1711	rBV4	14731	36559	1.37%	0.096%
84	23.185	1754	1757	1759	rBV4	6510	13574	0.51%	0.036%
85	23.374	1767	1773	1788	rBV	417914	1880383	70.59%	4.946%
86	23.658	1794	1797	1803	rVB	92340	250849	9.42%	0.660%
87	24.816	1887	1895	1905	rVB	633756	2155013	80.90%	5.669%
88	25.076	1910	1917	1924	rVB	465570	1479303	55.53%	3.891%
89	27.740	2141	2143	2144	rBV2	6689	6991	0.26%	0.018%
90	28.129	2175	2176	2182	rVB3	5535	9446	0.35%	0.025%
91	28.600	2214	2216	2218	rVB3	4446	6130	0.23%	0.016%
92	29.729	2311	2312	2316	rBV3	4112	9770	0.37%	0.026%
93	29.977	2331	2333	2337	rBV4	3023	7789	0.29%	0.020%
94	31.648	2474	2475	2478	rBV2	4601	9012	0.34%	0.024%
95	32.203	2520	2522	2525	rBV3	3898	8599	0.32%	0.023%
96	32.297	2528	2530	2531	rBV	3721	5717	0.21%	0.015%
97	32.450	2541	2543	2544	rBV2	5443	8010	0.30%	0.021%
98	32.744	2566	2568	2571	rVB3	3373	5533	0.21%	0.015%
99	33.485	2630	2631	2636	rVB2	5059	13807	0.52%	0.036%

Sum of corrected areas: 38017156

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

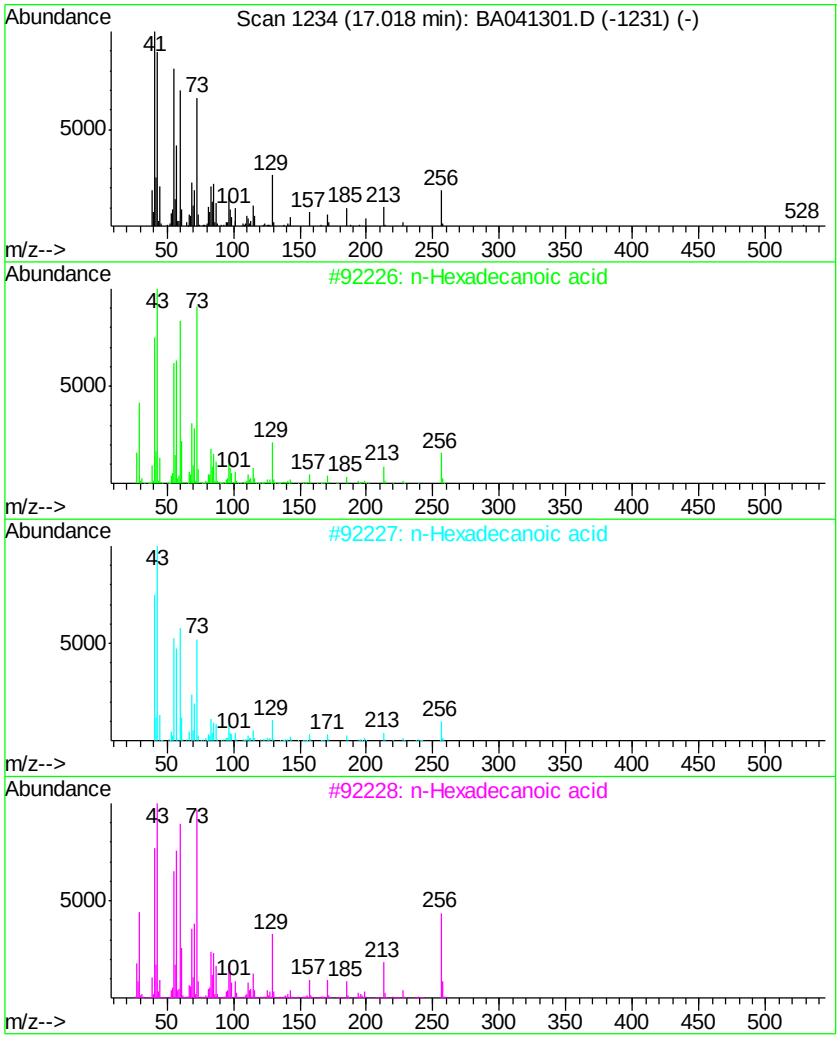
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

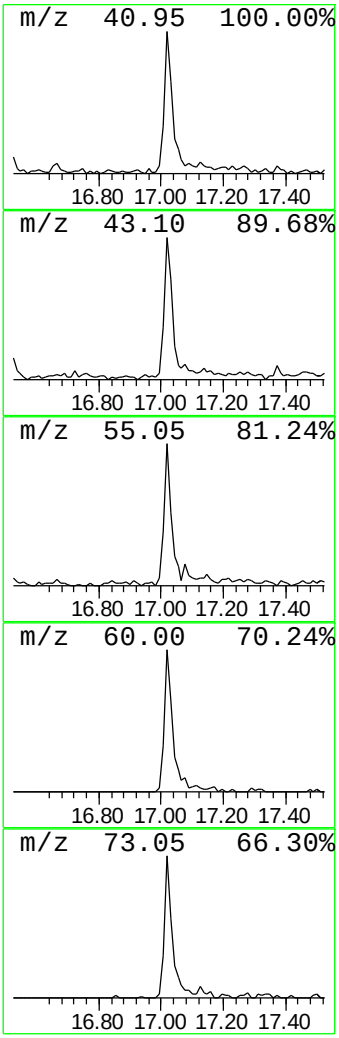
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.02	4.54 ng/ul	508752	Phenanthrene-d10	15.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	76
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	62
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	62
4	n-Decanoic acid	172	C10H20O2	000334-48-5	60
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	50





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

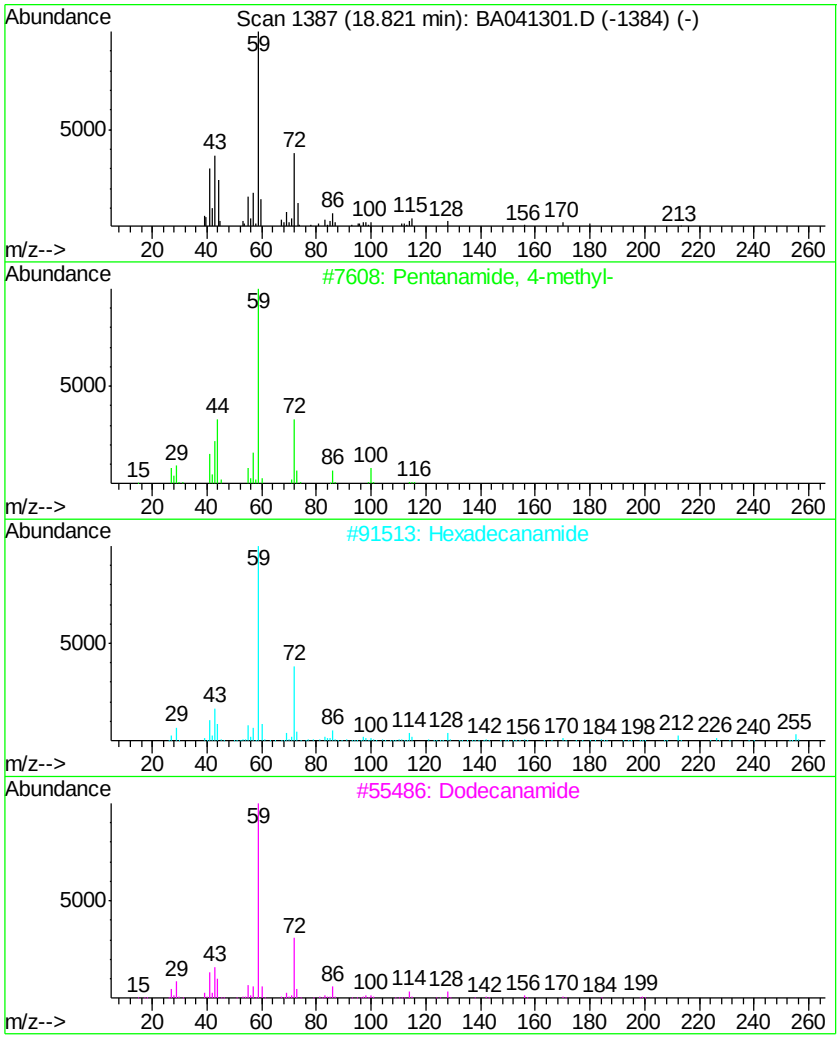
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

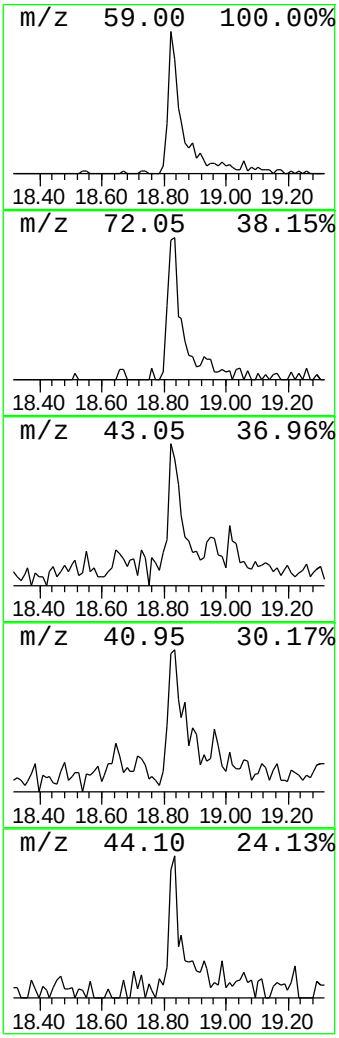
****

Peak Number 2 Pentanamide, 4-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.82	2.37 ng/ul	194508	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	72
2	Hexadecanamide	255	C16H33NO	000629-54-9	64
3	Dodecanamide	199	C12H25NO	001120-16-7	64
4	4-Cyclohexylbutyramide	169	C10H19NO	004441-62-7	64
5	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

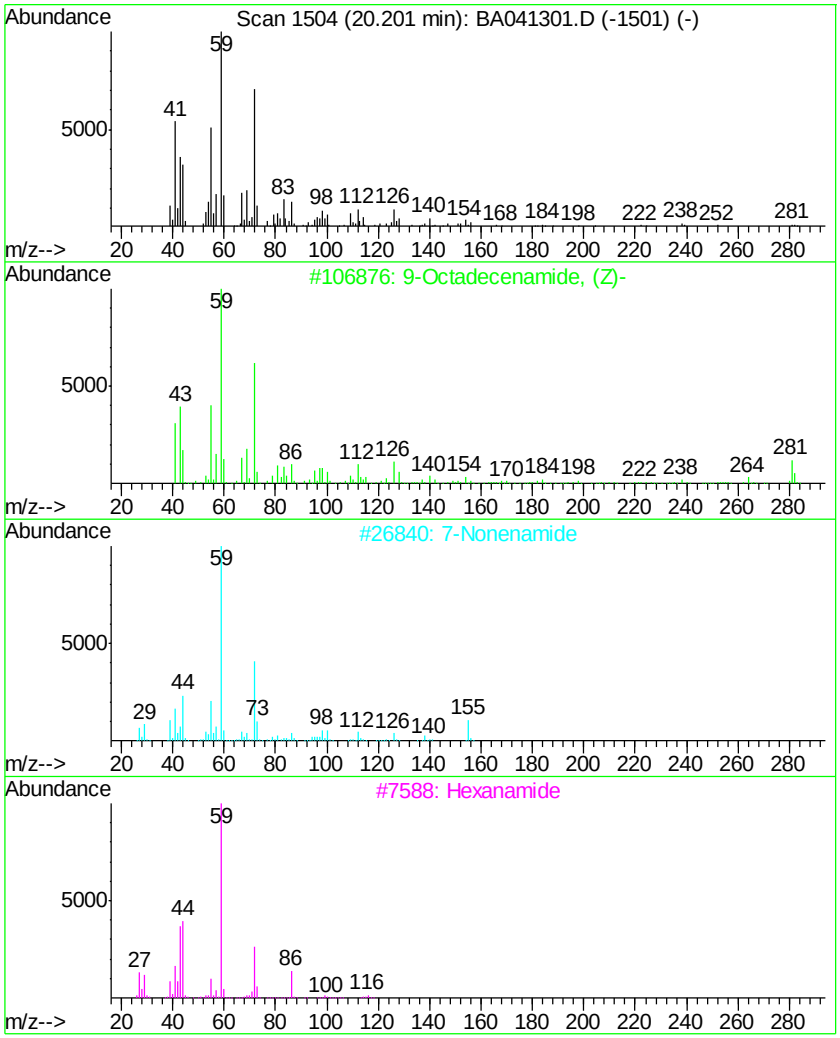
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

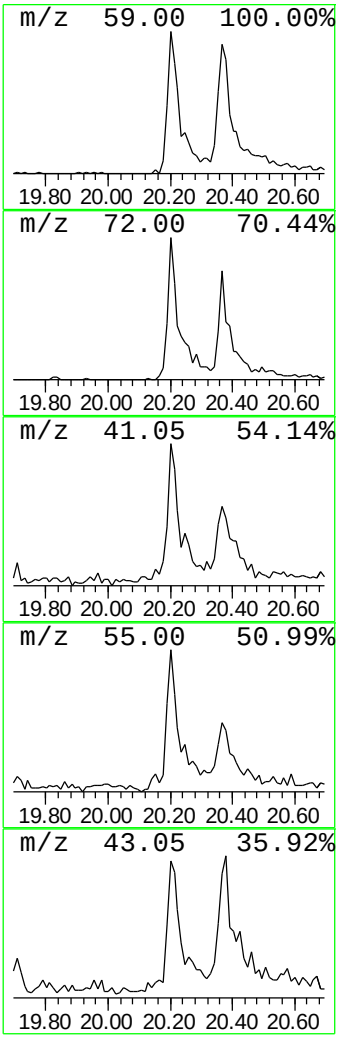
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 9-Octadecenamide, (Z)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.20	7.40 ng/ul	606381	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	90
2	7-Nonenamide	155	C9H17NO	090949-53-4	72
3	Hexanamide	115	C6H13NO	000628-02-4	53
4	Dodecanamide	199	C12H25NO	001120-16-7	50
5	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	50





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

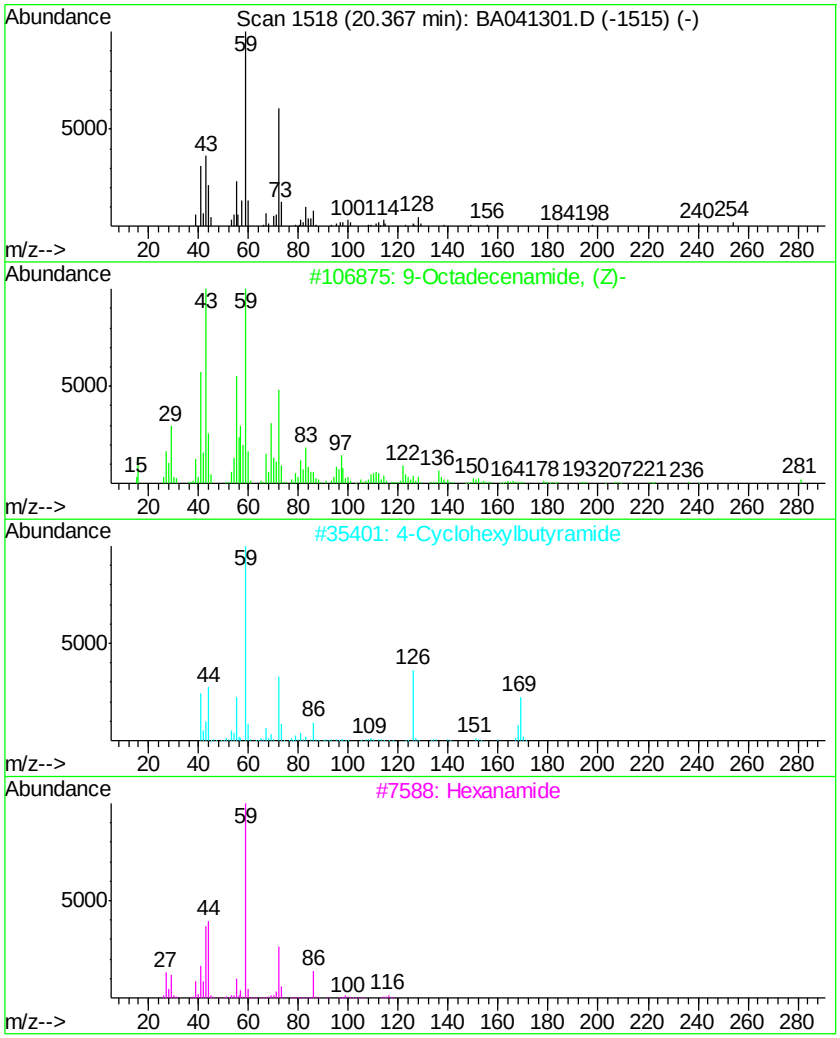
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

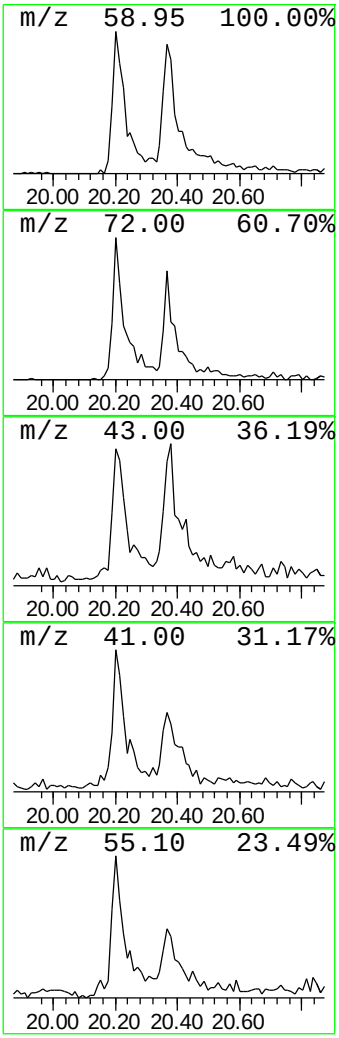
****

Peak Number 4 4-Cyclohexylbutyramide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.37	4.96 ng/ul	406319	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64
2	4-Cyclohexylbutyramide	169	C10H19NO	004441-62-7	59
3	Hexanamide	115	C6H13NO	000628-02-4	59
4	Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	56
5	Hexadecanamide	255	C16H33NO	000629-54-9	53





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

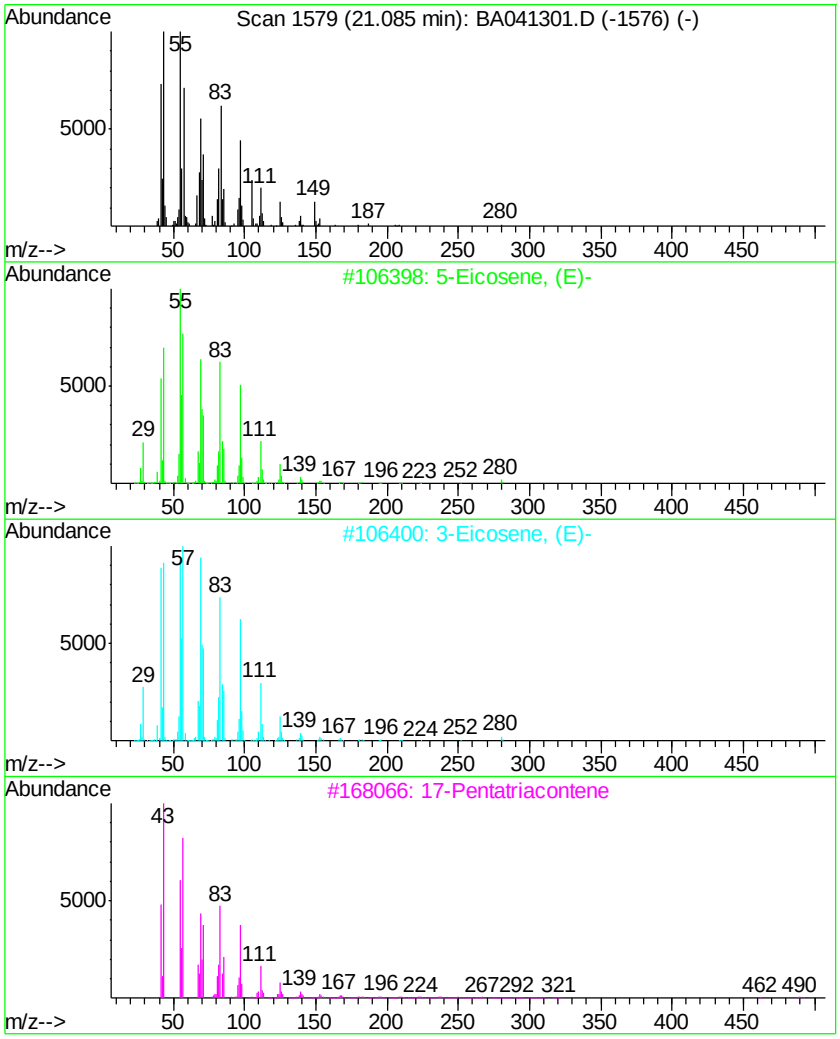
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

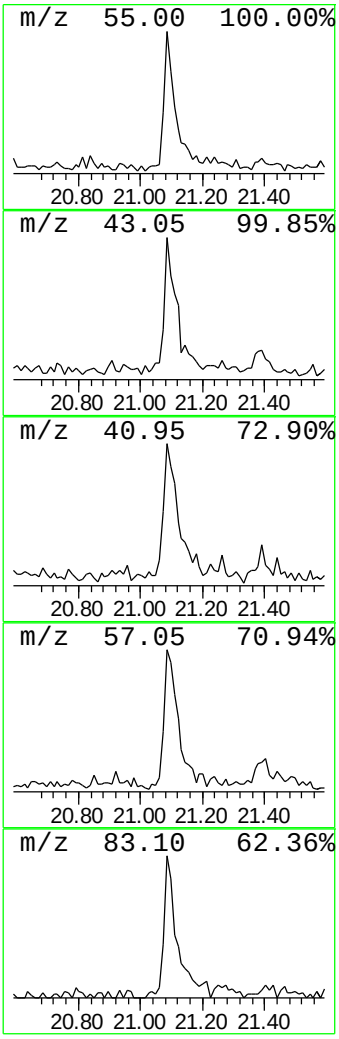
****

Peak Number 5 5-Eicosene, (E)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.09	6.39 ng/ul	523288	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Eicosene, (E)-	280	C20H40	074685-30-6	95
2	3-Eicosene, (E)-	280	C20H40	074685-33-9	90
3	17-Pentatriacontene	491	C35H70	006971-40-0	87
4	1-Docosene	308	C22H44	001599-67-3	81
5	9-Eicosene, (E)-	280	C20H40	074685-29-3	76





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On    : 19 Oct 2008  22:46
Operator  : QM
Sample    : PB37177B
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

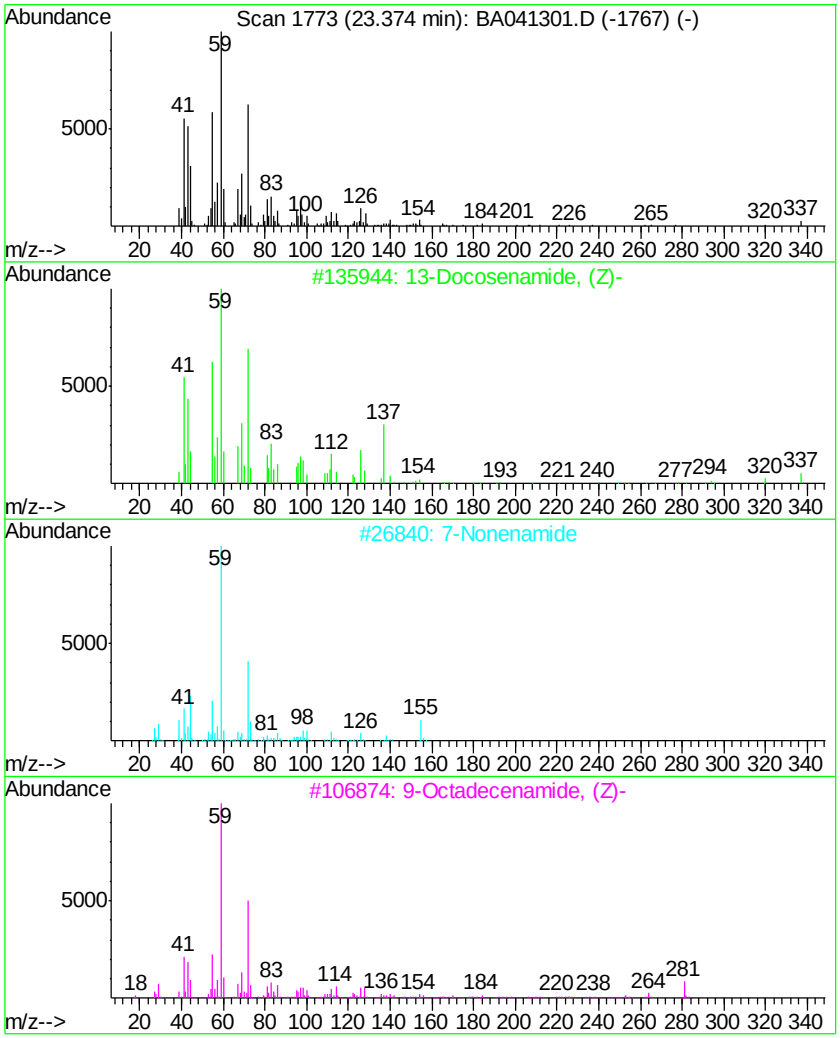
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

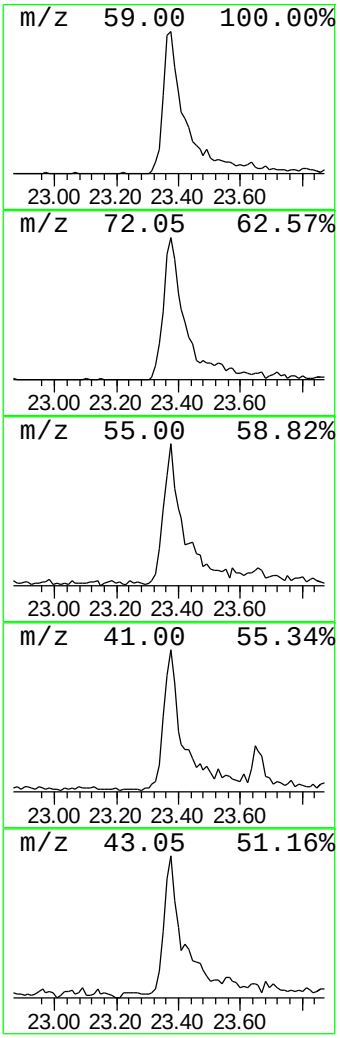
****

Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.37	25.42 ng/ul	1880380	Perylene-d12	25.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	90
2	7-Nonenamide	155	C9H17NO	090949-53-4	72
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	72
4	Tetradecanamide	227	C14H29NO	000638-58-4	64
5	Pentadecanamide, 15-bromo-	319	C15H30BrNO	1000163-86-1	50





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On    : 19 Oct 2008  22:46
Operator  : QM
Sample    : PB37177B
Misc      :
ALS Vial  : 7   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

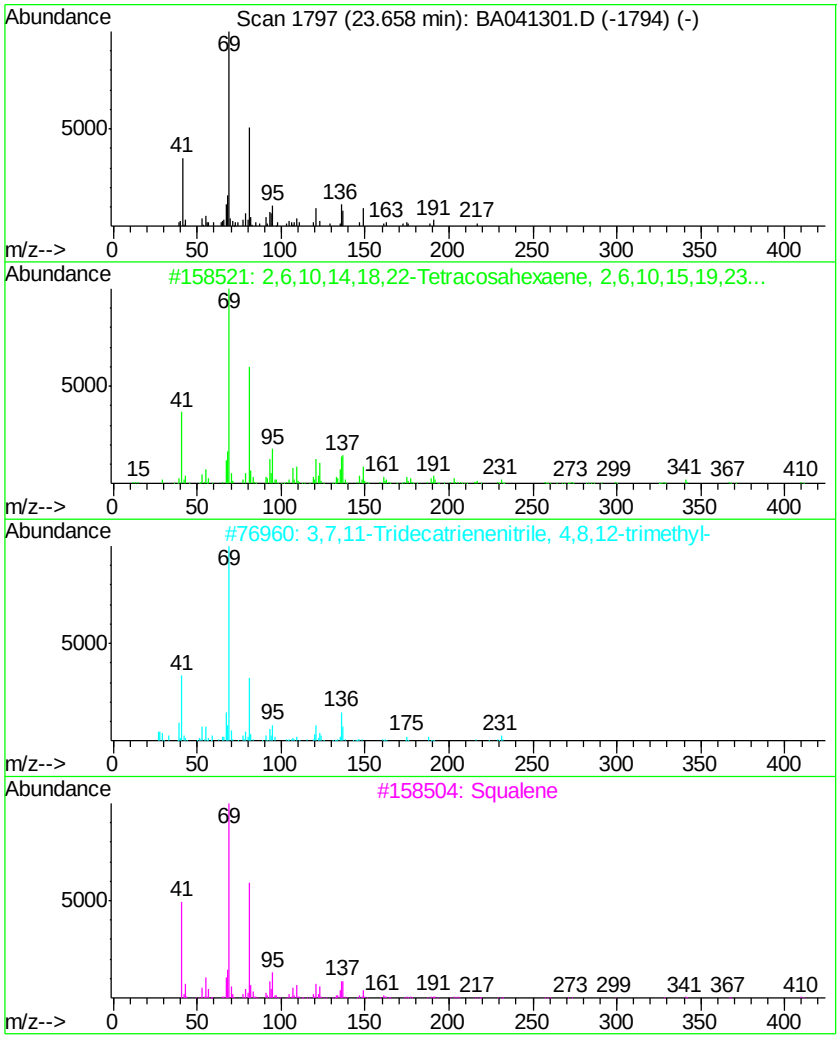
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

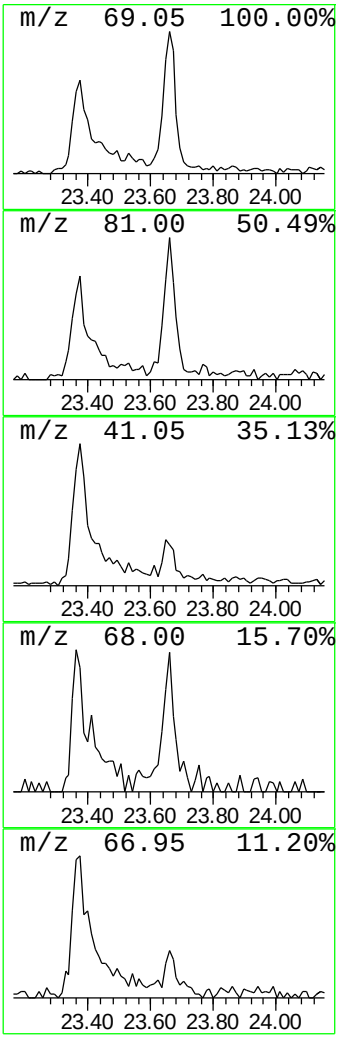
****

Peak Number 7 2,6,10,14,18,22-Tetracosahe... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.66	3.39 ng/ul	250849	Perylene-d12	25.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	64
2	3,7,11-Tridecatrienenitrile, 4,8...	231	C16H25N	006006-01-5	64
3	Squalene	410	C30H50	007683-64-9	64
4	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	59
5	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	59





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041301.D
Acq On : 19 Oct 2008 22:46
Operator : QM
Sample : PB37177B
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic acid	17.02	4.5	ng/ul	508752	4	15.75	2239130	20.0
Pentanamide, 4-me...	18.82	2.4	ng/ul	194508	5	21.29	1638740	20.0
9-Octadecenamide,...	20.20	7.4	ng/ul	606381	5	21.29	1638740	20.0
4-Cyclohexylbutyr...	20.37	5.0	ng/ul	406319	5	21.29	1638740	20.0
5-Eicosene, (E)-	21.09	6.4	ng/ul	523288	5	21.29	1638740	20.0
13-Docosenamide, ...	23.37	25.4	ng/ul	1880380	6	25.08	1479300	20.0
2,6,10,14,18,22-T...	23.66	3.4	ng/ul	250849	6	25.08	1479300	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: PB37183B

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041306.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: PB37183B

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041306.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	43	J
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK03

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: PB37183B

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041306.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N): N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

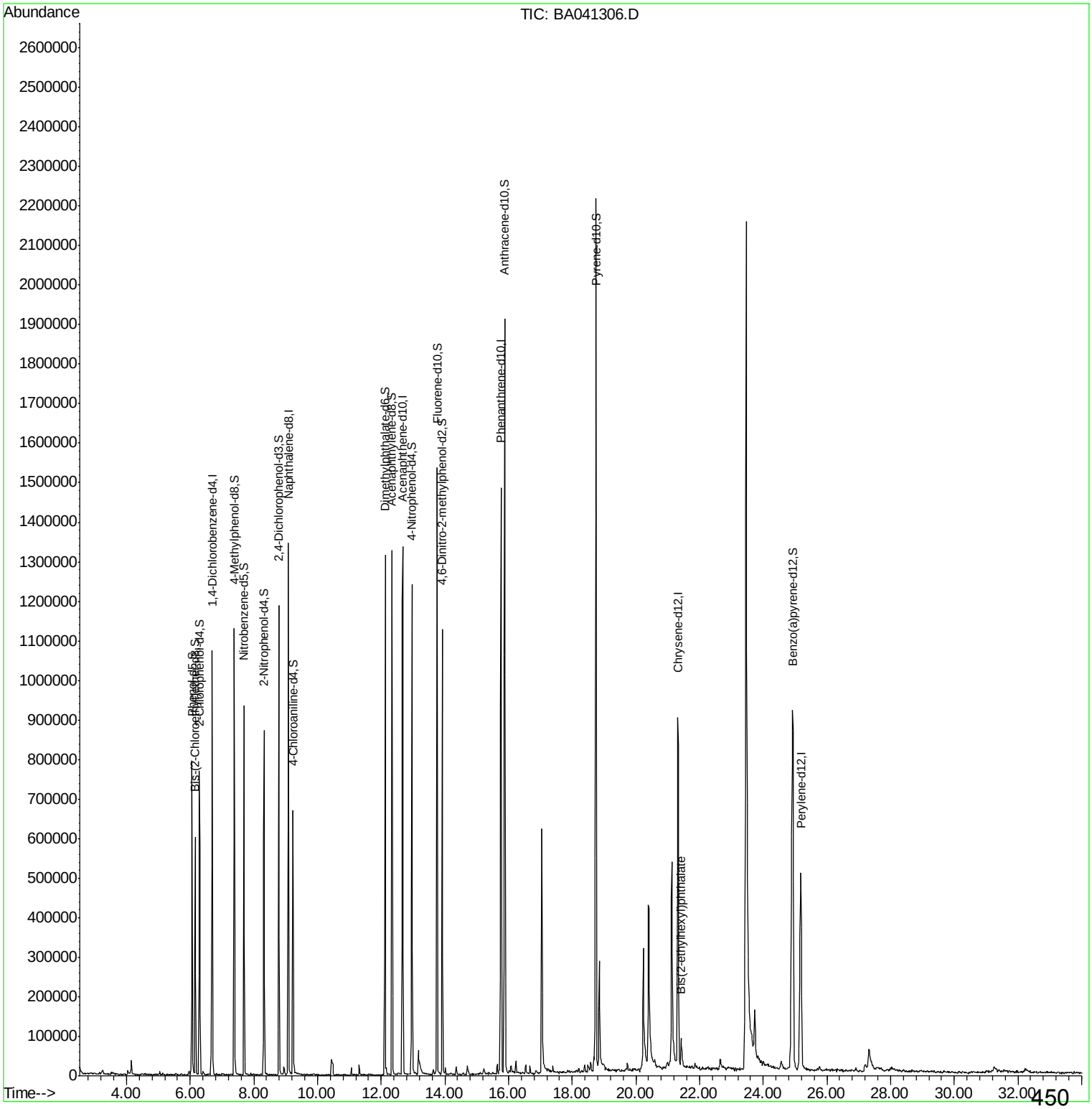
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	57-10-3	n-Hexadecanoic acid	17.05	170	JN
02.	629-54-9	Hexadecanamide	18.85	93	JN
03.	301-02-0	9-Octadecenamide, (Z)-	20.23	170	JN
04.	124-26-5	Octadecanamide	20.40	210	JN
05.	629-96-9	1-Eicosanol	21.13	250	JN
06.	112-84-5	13-Docosenamide, (Z)-	23.46	1500	JN
07.	62951-96-6	1,5,9-Undecatriene, 2,6,10-trim	23.73	72	JN
08.	1795-21-7	Cyclopentane, decyl-	27.32	43	JN
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

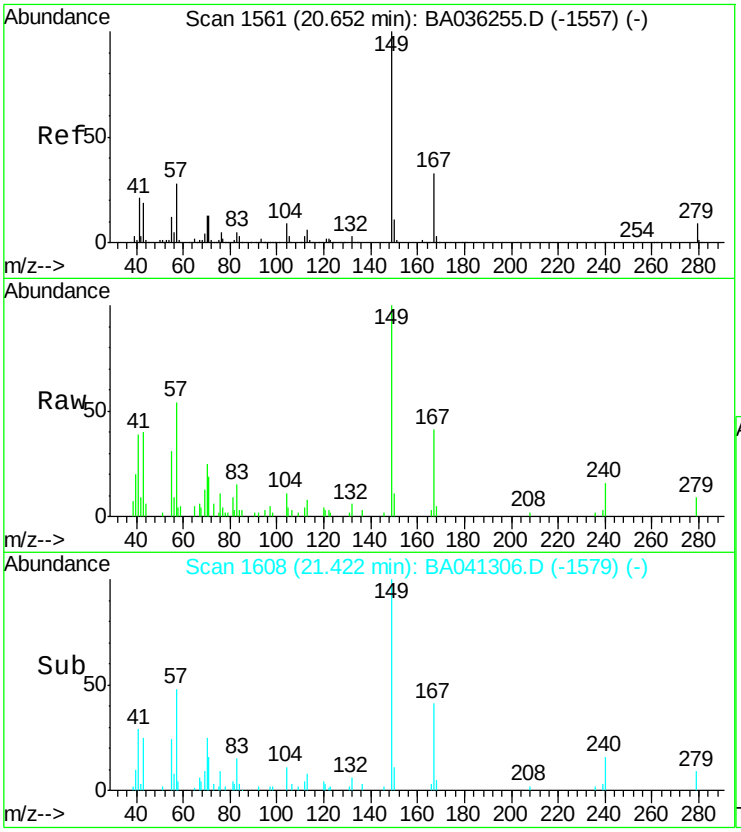
[2]EPA-designated Registry Number.

Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 12:19:00 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

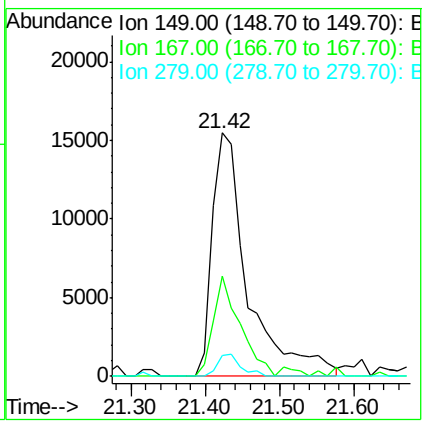




#79
Bis(2-ethylhexyl)phthalate
Concen: 2.60 ng/ul
RT: 21.42 min Scan# 1608
Delta R.T. 0.04 min
Lab File: BA041306.D
Acq: 20 Oct 2008 2:13

Tgt Ion:149 Resp: 51237

Ion	Ratio	Lower	Upper
149	100		
167	41.1	26.2	39.4#
279	8.7	7.7	11.5



Quantitation Report (QT/LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 20 12:19:00 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	245180	20.00 ng/ul	0.00
16) Naphthalene-d8	9.08	136	797888	20.00 ng/ul	0.00
33) Acenaphthene-d10	12.68	164	543187	20.00 ng/ul	0.00
59) Phenanthrene-d10	15.76	188	976393	20.00 ng/ul	0.00
73) Chrysene-d12	21.32	240	699538	20.00 ng/ul	0.03
81) Perylene-d12	25.18	264	654843	20.00 ng/ul	0.11
System Monitoring Compounds					
3) Phenol-d5	6.05	99	315462	21.25 ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.16	67	211226	20.99 ng/ul	0.00
7) 2-Chlorophenol-d4	6.29	132	260964	20.69 ng/ul	0.00
11) 4-Methylphenol-d8	7.39	113	242896	24.12 ng/ul	0.00
17) Nitrobenzene-d5	7.70	128	147824	20.93 ng/ul	0.00
20) 2-Nitrophenol-d4	8.32	143	185590	21.34 ng/ul	0.00
24) 2,4-Dichlorophenol-d3	8.79	165	324967	20.19 ng/ul	0.00
27) 4-Chloroaniline-d4	9.24	131	269705	16.95 ng/ul	0.01
41) Dimethylphthalate-d6	12.12	166	848218	23.45 ng/ul	0.00
44) Acenaphthylene-d8	12.34	160	987238	22.45 ng/ul	0.00
49) 4-Nitrophenol-d4	12.97	143	253108	34.33 ng/ul	0.00
55) Fluorene-d10	13.76	176	674300	23.18 ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.92	200	253347	25.07 ng/ul	0.00
68) Anthracene-d10	15.88	188	1198492	25.64 ng/ul	0.02
74) Pyrene-d10	18.74	212	1595013	52.18 ng/ul	0.02
85) Benzo(a)pyrene-d12	24.92	264	1320927	37.04 ng/ul	0.10

Target Compounds					Qvalue
79) Bis(2-ethylhexyl)phthalate	21.42	149	51237	2.60 ng/ul#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.895	26	32	35	rBV3	3420	11941	0.16%	0.020%
2	3.259	56	63	66	rVV4	9854	35591	0.47%	0.060%
3	3.530	83	86	88	rBV3	5398	11725	0.15%	0.020%
4	4.034	127	129	133	rBV2	10048	24065	0.32%	0.040%
5	4.151	136	139	144	rVB	34809	59507	0.78%	0.100%
6	5.044	213	215	217	rVB3	7705	10514	0.14%	0.018%
7	5.548	256	258	262	rVB	4416	10443	0.14%	0.018%
8	5.959	291	293	298	rBV2	8526	14661	0.19%	0.025%
9	6.053	298	301	307	rBV	794091	1334831	17.50%	2.245%
10	6.159	307	310	318	rVV	601683	857613	11.25%	1.442%
11	6.288	318	321	326	rVV	767372	1270899	16.66%	2.137%
12	6.406	329	331	334	rBV2	8856	12842	0.17%	0.022%
13	6.688	352	355	360	rVV	1071787	1668958	21.88%	2.806%
14	7.389	412	415	418	rBV	1125742	1531699	20.08%	2.576%
15	7.695	438	441	444	rBV	934734	1300841	17.06%	2.187%
16	7.907	455	459	461	rBV2	5989	11416	0.15%	0.019%
17	8.225	479	486	490	rBV2	4545	15204	0.20%	0.026%
18	8.319	490	494	497	rBV	871233	1280951	16.80%	2.154%
19	8.790	530	534	537	rBV	1186835	1726387	22.64%	2.903%
20	8.941	544	547	553	rVB2	21125	39200	0.51%	0.066%
21	9.083	556	559	562	rBV	1340595	1846952	24.22%	3.106%
22	9.235	568	572	575	rBV	667462	1132924	14.86%	1.905%
23	10.445	671	675	677	rBV	40302	100111	1.31%	0.168%
24	11.068	724	728	731	rBV	19496	29816	0.39%	0.050%
25	11.315	745	749	753	rBV	27529	42894	0.56%	0.072%
26	12.125	814	818	820	rBV	1313675	2163237	28.37%	3.638%
27	12.160	820	821	824	rVB	16937	19693	0.26%	0.033%
28	12.337	833	836	840	rBV	1325674	2232358	29.27%	3.754%
29	12.548	850	854	857	rBV	4840	14275	0.19%	0.024%
30	12.678	861	865	868	rBV	1334903	2281391	29.91%	3.836%
31	12.972	885	890	893	rBV	1238194	2144632	28.12%	3.606%
32	13.173	903	907	915	rBV	63181	213934	2.81%	0.360%
33	13.642	944	947	949	rBV2	12243	24348	0.32%	0.041%
34	13.758	953	957	960	rVB	1525470	2519795	33.04%	4.237%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.923	967	971	974	rBV	1126362	1747131	22.91%	2.938%
36	14.017	976	979	981	rVB2	17681	27880	0.37%	0.047%
37	14.357	1005	1008	1011	rBV3	20255	35603	0.47%	0.060%
38	14.579	1024	1027	1031	rVB2	4352	11163	0.15%	0.019%
39	14.708	1036	1038	1044	rVB2	23537	54948	0.72%	0.092%
40	15.226	1077	1082	1087	rVB5	14124	38916	0.51%	0.065%
41	15.378	1093	1095	1099	rBV4	6793	13700	0.18%	0.023%
42	15.506	1103	1106	1111	rVB3	5956	14490	0.19%	0.024%
43	15.647	1115	1118	1121	rBV2	25818	41237	0.54%	0.069%
44	15.706	1121	1123	1124	rBV	13175	21952	0.29%	0.037%
45	15.764	1124	1128	1131	rBV	1472498	2462977	32.30%	4.142%
46	15.882	1134	1138	1141	rBV	1904226	3111797	40.80%	5.233%
47	16.023	1148	1150	1153	rBV2	7716	15022	0.20%	0.025%
48	16.082	1153	1155	1158	rVV3	17732	33593	0.44%	0.056%
49	16.235	1164	1168	1170	rVB2	31818	56642	0.74%	0.095%
50	16.436	1184	1185	1190	rVB4	5980	15112	0.20%	0.025%
51	16.542	1190	1194	1198	rBV3	23558	46927	0.62%	0.079%
52	16.671	1203	1205	1208	rBV3	21260	33903	0.44%	0.057%
53	16.859	1217	1221	1224	rBV5	8066	21744	0.29%	0.037%
54	17.048	1232	1237	1247	rBV2	616840	1293491	16.96%	2.175%
55	17.297	1256	1258	1261	rVB3	7967	12566	0.16%	0.021%
56	17.391	1264	1266	1268	rVB3	16399	20225	0.27%	0.034%
57	17.625	1283	1286	1287	rBV2	5417	9913	0.13%	0.017%
58	17.979	1312	1316	1320	rBV6	3106	11910	0.16%	0.020%
59	18.144	1328	1330	1333	rVV4	5655	11311	0.15%	0.019%
60	18.203	1333	1335	1338	rVB4	10535	18547	0.24%	0.031%
61	18.391	1348	1351	1354	rVB3	17961	36999	0.49%	0.062%
62	18.496	1357	1360	1364	rBV5	17928	49459	0.65%	0.083%
63	18.579	1364	1367	1371	rVB2	22714	45774	0.60%	0.077%
64	18.673	1373	1375	1377	rBV2	36700	76671	1.01%	0.129%
65	18.745	1377	1381	1385	rVV	2197827	4181122	54.82%	7.031%
66	18.851	1387	1390	1399	rVV	263782	512114	6.72%	0.861%
67	19.183	1416	1418	1421	rVB4	5785	10233	0.13%	0.017%
68	19.406	1435	1437	1439	rBV3	4891	11313	0.15%	0.019%
69	19.666	1456	1459	1460	rBV3	5594	11470	0.15%	0.019%
70	19.736	1462	1465	1467	rVB3	18777	38177	0.50%	0.064%
71	20.231	1498	1507	1517	rBV	313194	928398	12.17%	1.561%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

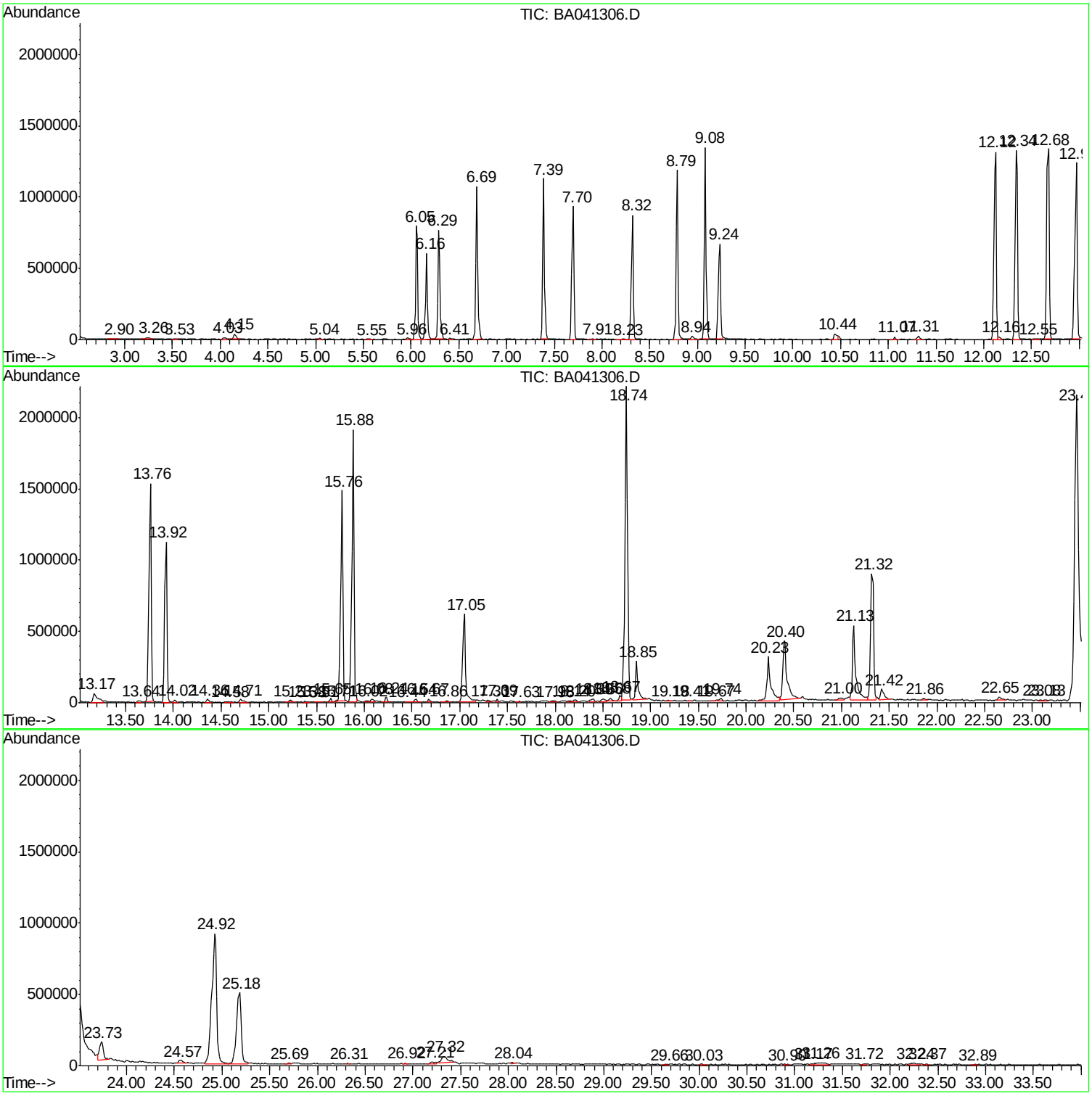
72	20.395	1518	1521	1536	rVB	403643	1147088	15.04%	1.929%
73	20.997	1567	1572	1575	rBV6	15861	53006	0.70%	0.089%
74	21.128	1580	1583	1595	rVV	519942	1362157	17.86%	2.291%
75	21.317	1595	1599	1603	rVV	885004	1825683	23.94%	3.070%
76	21.422	1605	1608	1616	rVB2	71801	197220	2.59%	0.332%
77	21.858	1643	1645	1648	rBV4	10932	16748	0.22%	0.028%
78	22.646	1710	1712	1718	rVB5	20342	49449	0.65%	0.083%
79	23.083	1747	1749	1751	rVB3	8330	12525	0.16%	0.021%
80	23.131	1751	1753	1756	rVB3	8302	19874	0.26%	0.033%
81	23.460	1773	1781	1799	rBV	2146204	7626391	100.00%	12.824%
82	23.731	1801	1804	1811	rVB	124634	369813	4.85%	0.622%
83	24.569	1871	1875	1880	rVB5	19068	59614	0.78%	0.100%
84	24.921	1896	1905	1917	rVB	910015	3411027	44.73%	5.736%
85	25.181	1917	1927	1935	rBV	498326	1700716	22.30%	2.860%
86	25.690	1968	1970	1973	rBV4	6260	14252	0.19%	0.024%
87	26.315	2022	2023	2025	rBV2	7754	12674	0.17%	0.021%
88	26.917	2072	2074	2077	rVB3	8392	13374	0.18%	0.022%
89	27.212	2094	2099	2102	rBV6	16059	61423	0.81%	0.103%
90	27.319	2104	2108	2117	rVV8	45894	217593	2.85%	0.366%
91	28.037	2168	2169	2172	rVB3	7754	11508	0.15%	0.019%
92	29.664	2303	2307	2308	rBV3	6355	10767	0.14%	0.018%
93	30.029	2336	2338	2342	rVB3	4352	9749	0.13%	0.016%
94	30.901	2410	2412	2415	rVV3	4072	9314	0.12%	0.016%
95	31.172	2433	2435	2437	rBV2	4759	10402	0.14%	0.017%
96	31.255	2437	2442	2451	rVB10	13002	81845	1.07%	0.138%
97	31.715	2479	2481	2484	rBV4	5666	9468	0.12%	0.016%
98	32.244	2521	2526	2532	rVV7	10856	51898	0.68%	0.087%
99	32.374	2535	2537	2540	rVB4	5951	11135	0.15%	0.019%
100	32.894	2577	2581	2583	rBV3	4446	10935	0.14%	0.018%

Sum of corrected areas: 59467726

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

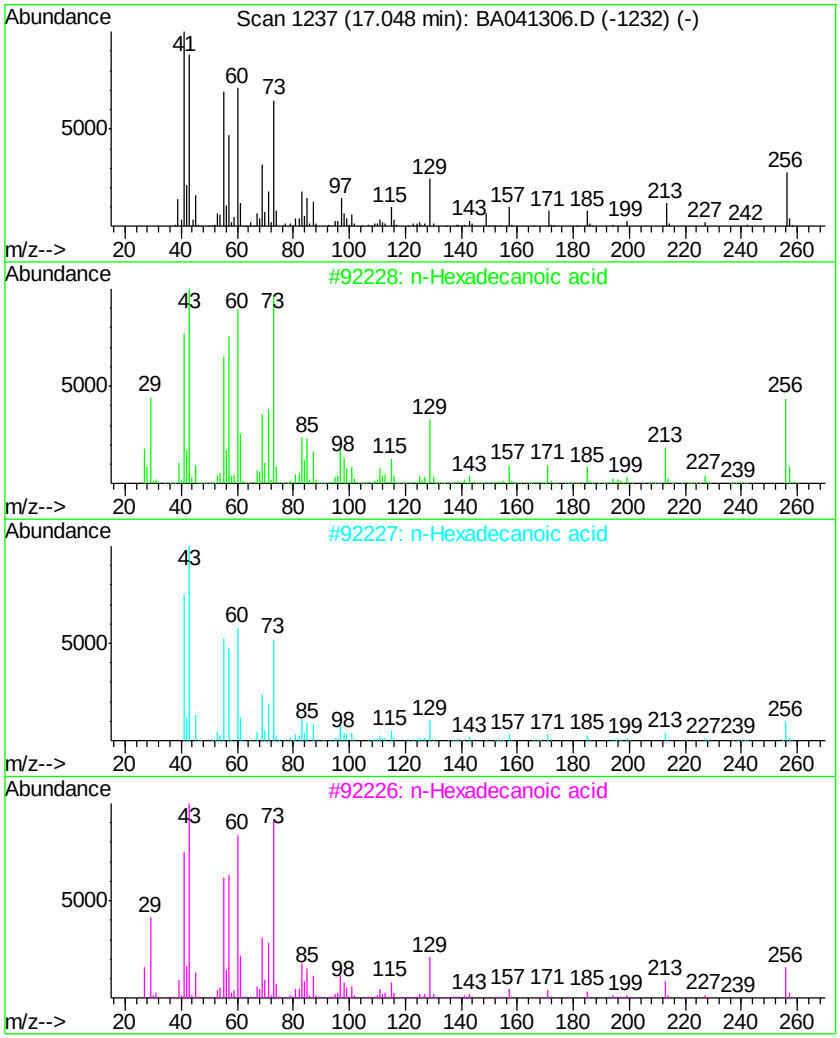
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

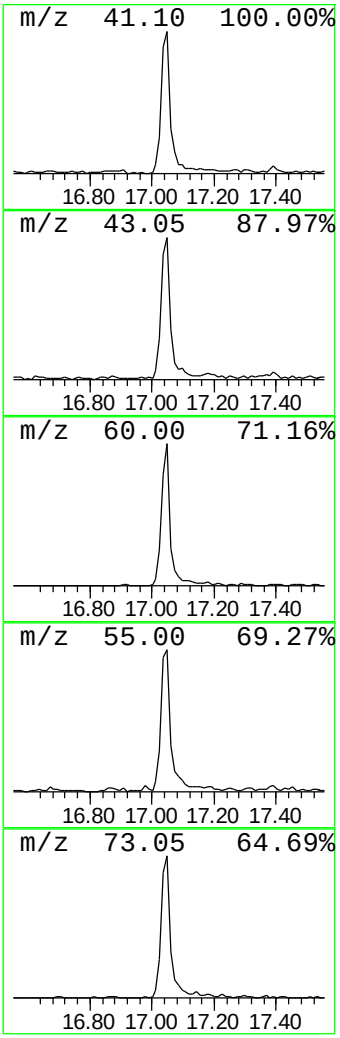
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.05	10.50 ng/ul	1293490	Phenanthrene-d10	15.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	58
5	Tridecanoic acid	214	C13H26O2	000638-53-9	53





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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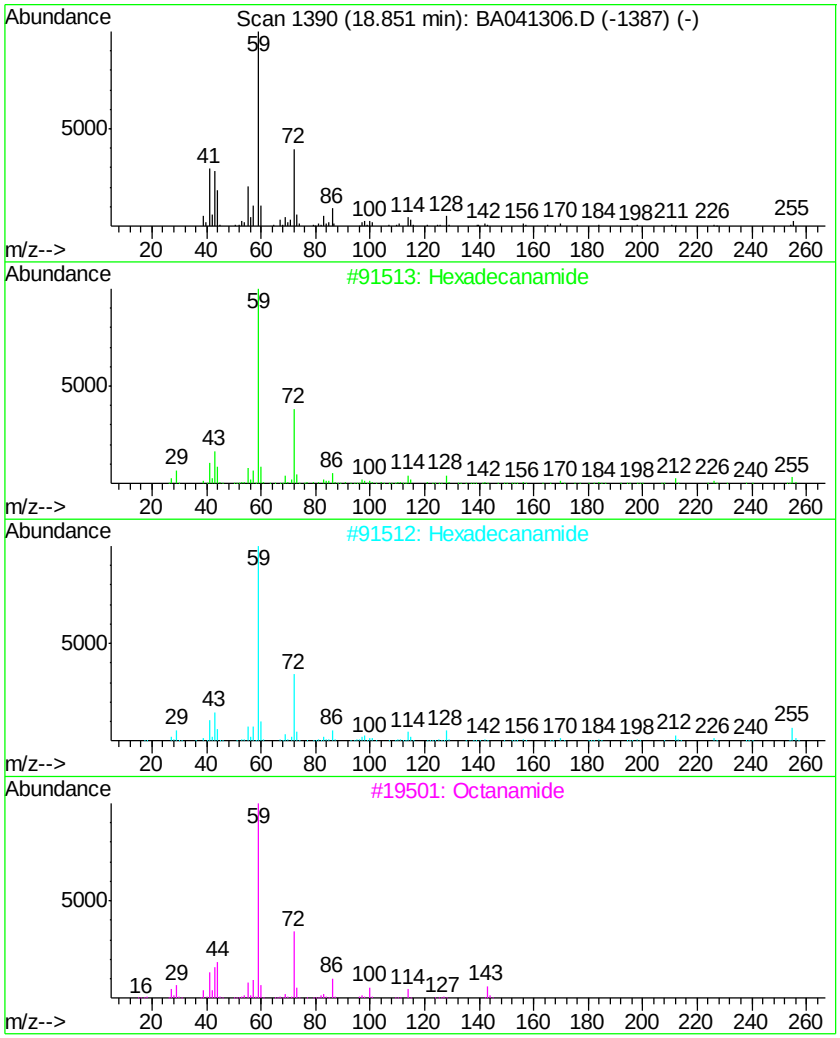
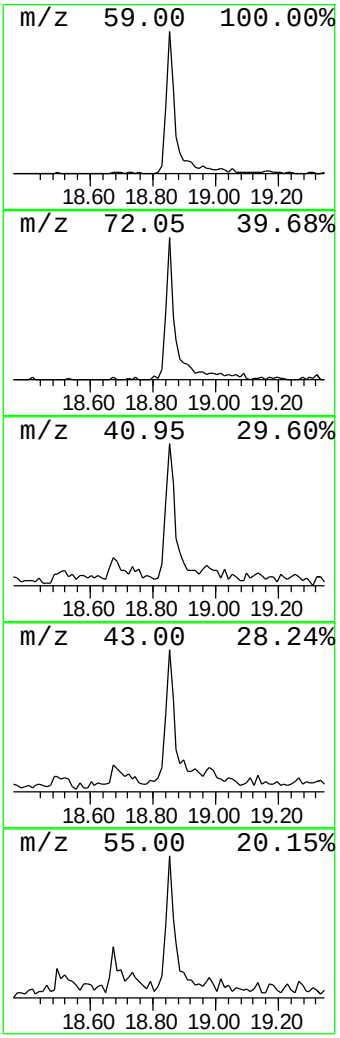
Peak Number 2 Hexadecanamide Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.85	5.61 ng/ul	512114	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanamide	255	C16H33NO	000629-54-9	96
2	Hexadecanamide	255	C16H33NO	000629-54-9	95
3	Octanamide	143	C8H17NO	000629-01-6	87
4	Decanamide-	171	C10H21NO	002319-29-1	83
5	Tetradecanamide	227	C14H29NO	000638-58-4	78





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On    : 20 Oct 2008   2:13
Operator  : QM
Sample    : PB37183B
Misc      :
ALS Vial  : 15   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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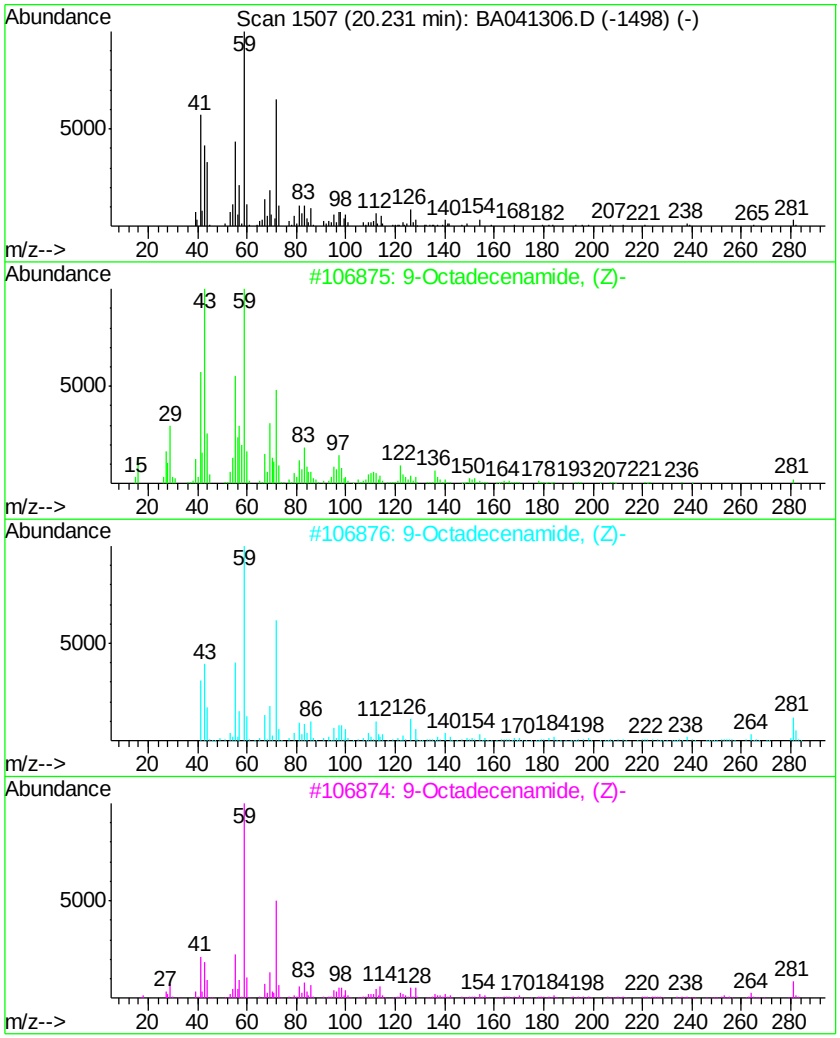
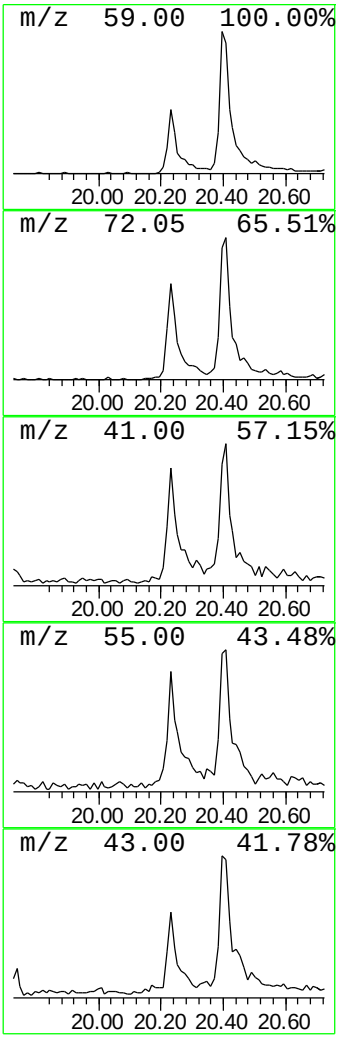
****

Peak Number 3 9-Octadecenamide, (Z)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.23	10.17 ng/ul	928398	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	87
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	81
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	74
4	7-Nonenamide	155	C9H17NO	090949-53-4	64
5	Benzeneethanamine, 2-fluoro-.bet...	229	C11H16FNO3	061338-98-5	64





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On    : 20 Oct 2008   2:13
Operator  : QM
Sample    : PB37183B
Misc      :
ALS Vial  : 15   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

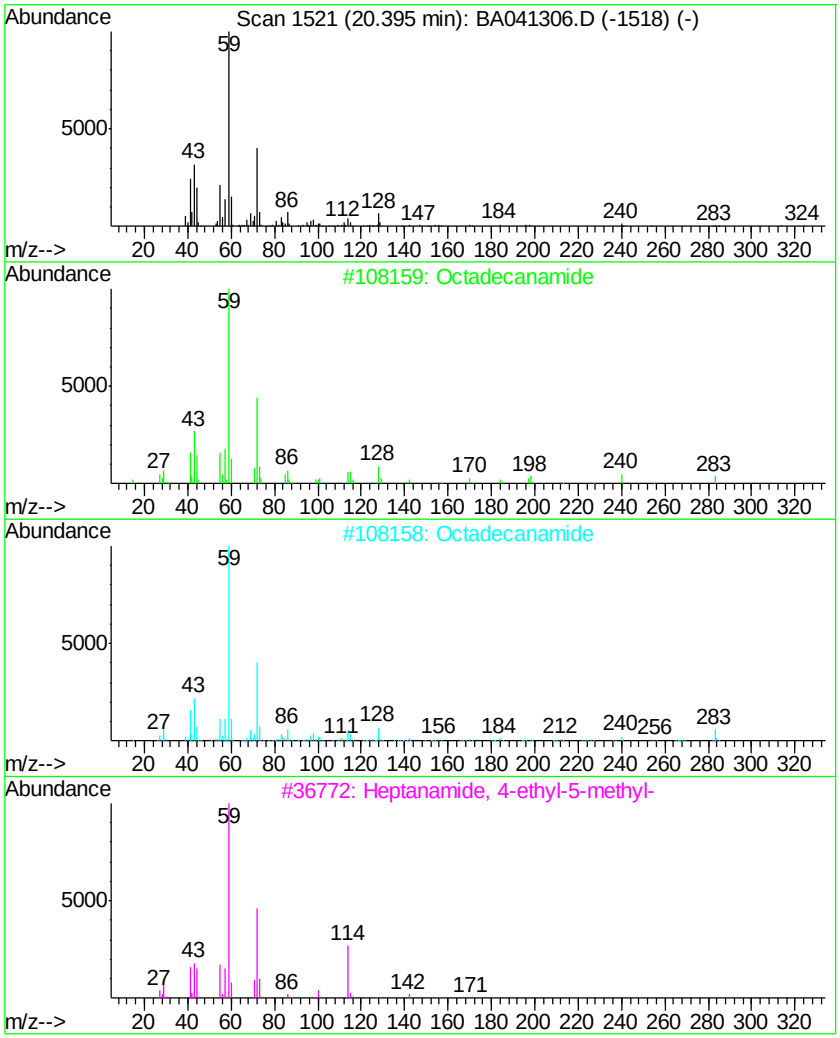
TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
```

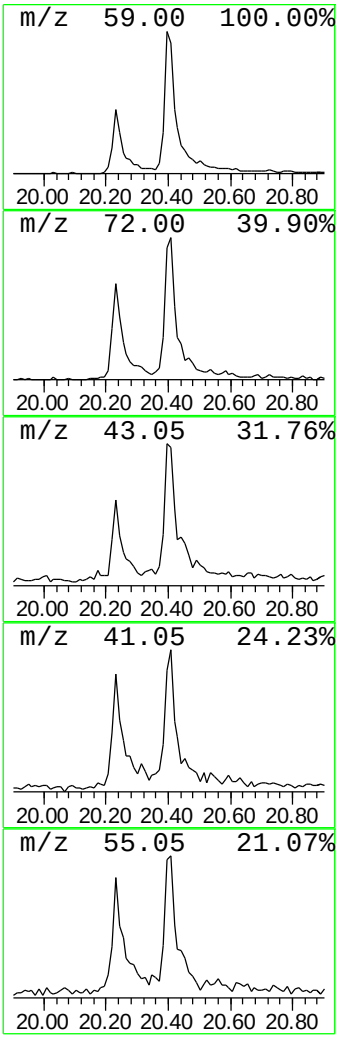
****

Peak Number 4 Octadecanamide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.40	12.57 ng/ul	1147090	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanamide	283	C18H37NO	000124-26-5	91
2	Octadecanamide	283	C18H37NO	000124-26-5	87
3	Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	78
4	Tetradecanamide	227	C14H29NO	000638-58-4	72
5	Hexadecanamide	255	C16H33NO	000629-54-9	72





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

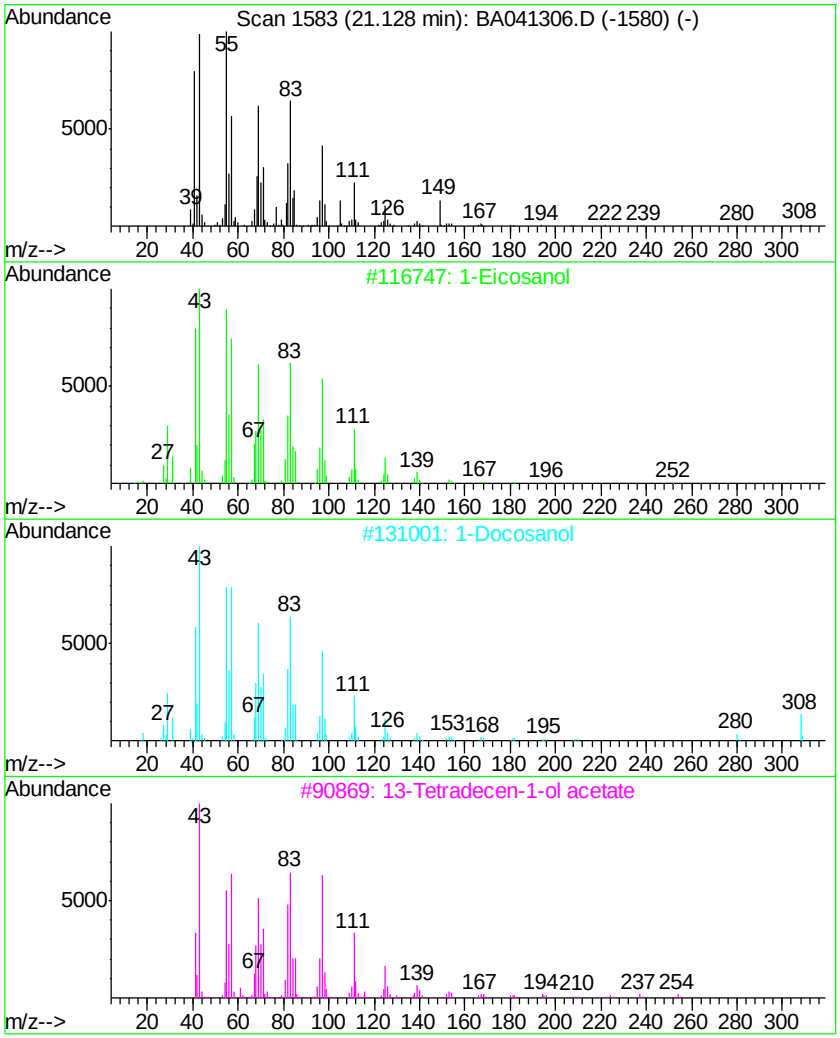
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

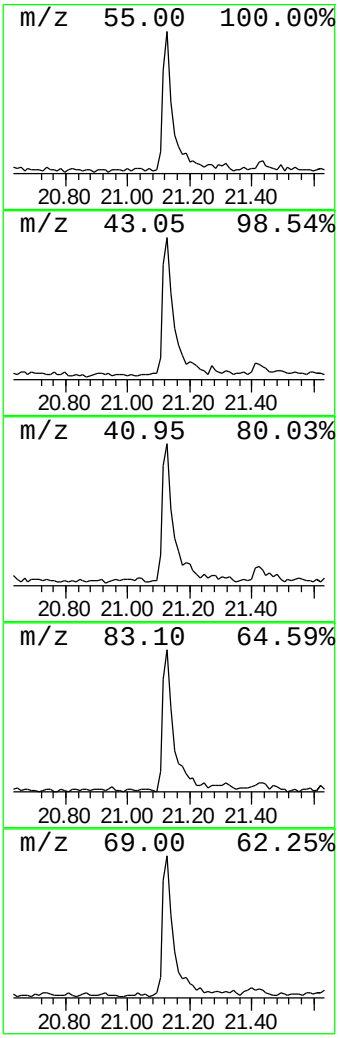
****

Peak Number 5 1-Eicosanol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.13	14.92 ng/ul	1362160	Chrysene-d12	21.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Eicosanol	298	C20H42O	000629-96-9	91
2	1-Docosanol	326	C22H46O	000661-19-8	91
3	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	91
4	1-Eicosanol	298	C20H42O	000629-96-9	90
5	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	81





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On    : 20 Oct 2008   2:13
Operator  : QM
Sample    : PB37183B
Misc      :
ALS Vial  : 15   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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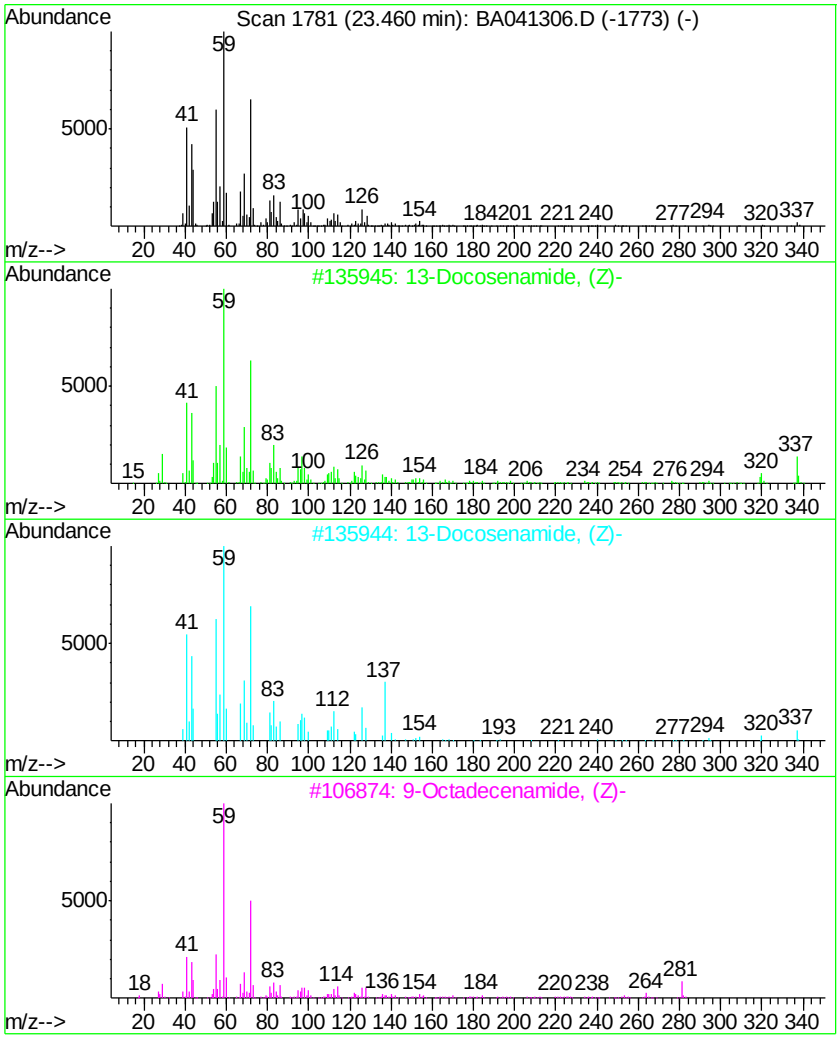
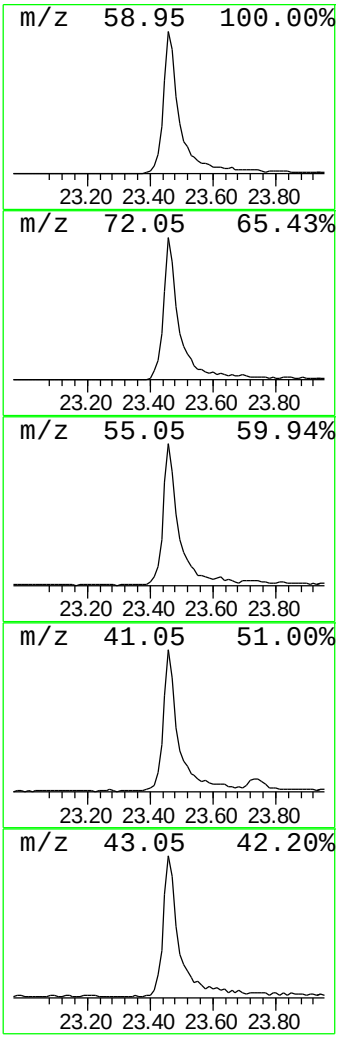
****

Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.46	89.68 ng/ul	7626390	Perylene-d12	25.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	89
2	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	81
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	72
4	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	56
5	7-Nonenamide	155	C9H17NO	090949-53-4	53





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

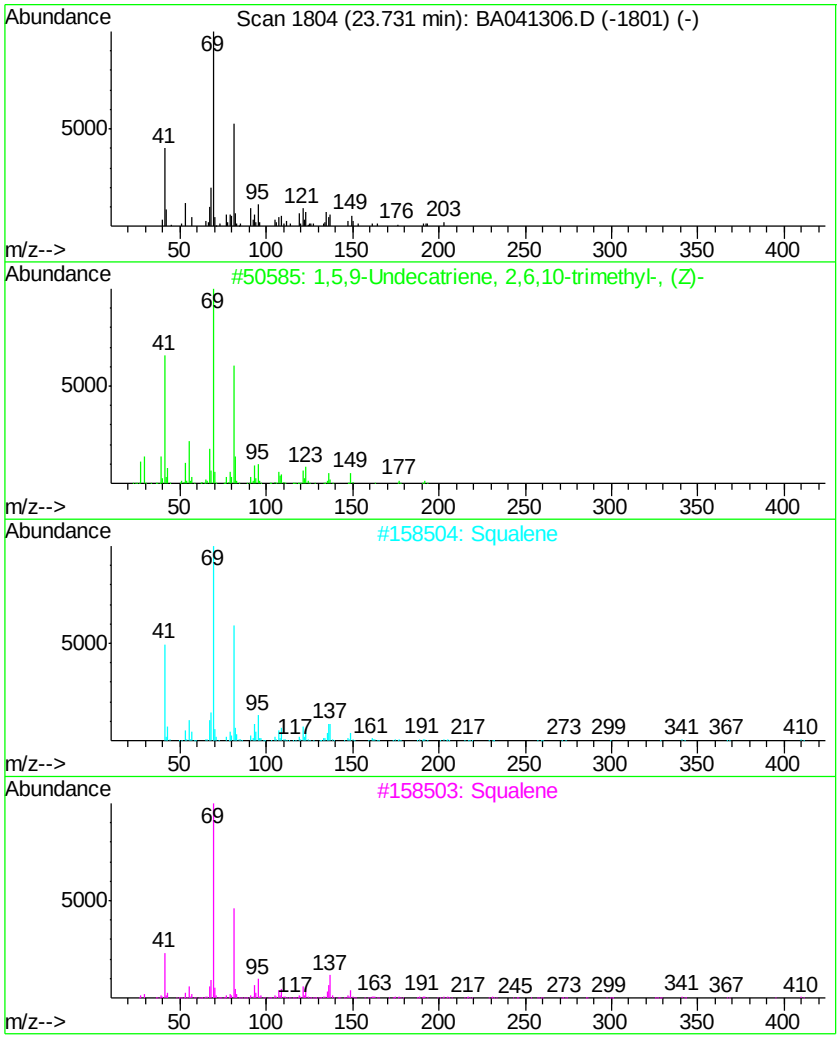
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

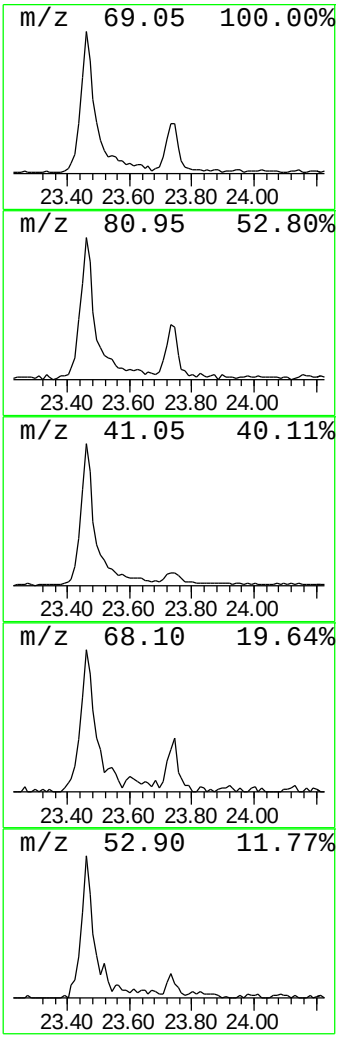
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 1,5,9-Undecatriene, 2,6,10-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.73	4.35 ng/ul	369813	Perylene-d12	25.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	74
2	Squalene	410	C30H50	007683-64-9	72
3	Squalene	410	C30H50	007683-64-9	72
4	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	64
5	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	000106-28-5	59





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

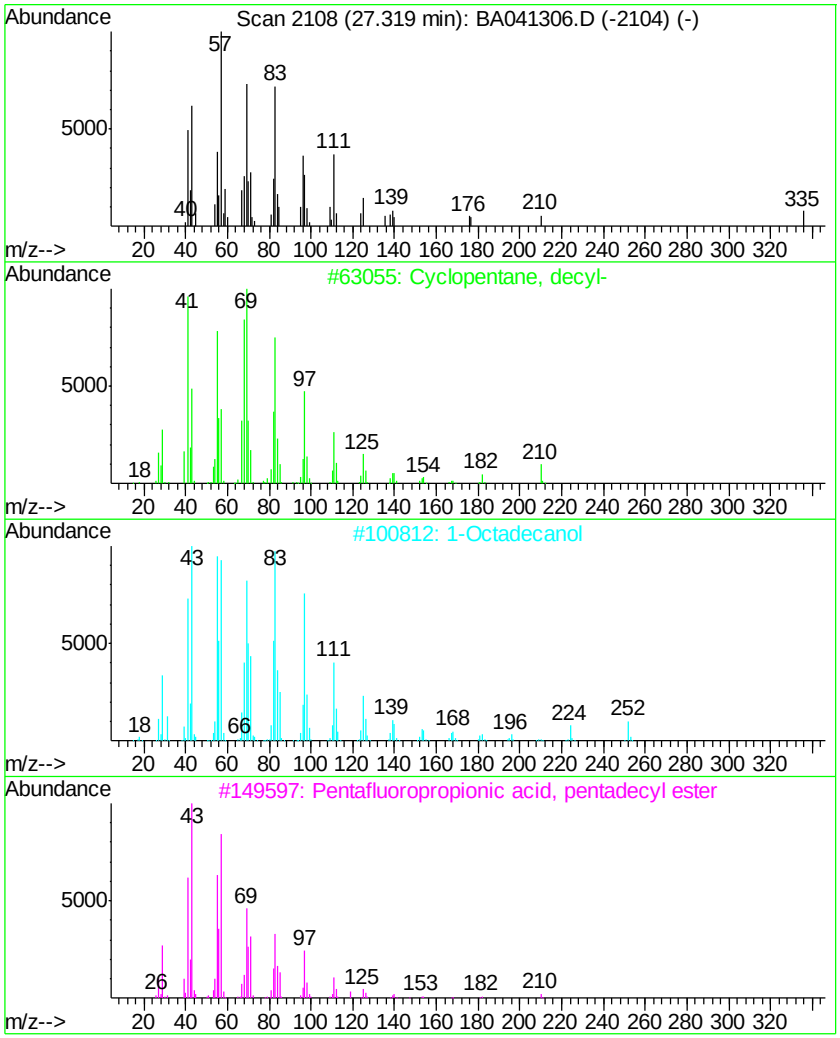
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

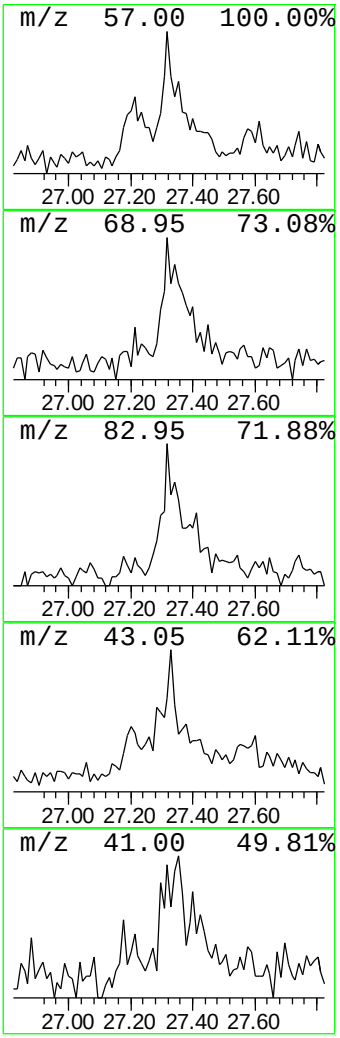
****

Peak Number 8 Cyclopentane, decyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.32	2.56 ng/ul	217593	Perylene-d12	25.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, decyl-	210	C15H30	001795-21-7	55
2	1-Octadecanol	270	C18H38O	000112-92-5	27
3	Pentafluoropropionic acid, penta...	374	C18H31F5O2	1000280-07-5	27
4	1,1'-Bicyclohexyl, 2-butyl-	222	C16H30	054889-99-5	27
5	Bromoacetic acid, octadecyl ester	390	C20H39BrO2	018992-03-5	27





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041306.D
Acq On : 20 Oct 2008 2:13
Operator : QM
Sample : PB37183B
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic acid	17.05	10.5	ng/ul	1293490	4	15.76	2462980	20.0
Hexadecanamide	18.85	5.6	ng/ul	512114	5	21.32	1825680	20.0
9-Octadecenamide,...	20.23	10.2	ng/ul	928398	5	21.32	1825680	20.0
Octadecanamide	20.40	12.6	ng/ul	1147090	5	21.32	1825680	20.0
1-Eicosanol	21.13	14.9	ng/ul	1362160	5	21.32	1825680	20.0
13-Docosenamide, ...	23.46	89.7	ng/ul	7626390	6	25.18	1700720	20.0
1,5,9-Undecatrien...	23.73	4.3	ng/ul	369813	6	25.18	1700720	20.0
Cyclopentane, decyl-	27.32	2.6	ng/ul	217593	6	25.18	1700720	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03RE

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: PB37183BRE

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041325.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	170	U
108-95-2	Phenol	170	U
111-44-4	Bis(2-chloroethyl)ether	170	U
95-57-8	2-Chlorophenol	170	U
95-48-7	2-Methylphenol	170	U
108-60-1	2,2'-Oxybis(1-chloropropane)	170	U
98-86-2	Acetophenone	170	U
106-44-5	4-Methylphenol	170	U
621-64-7	N-Nitroso-di-n-propylamine	170	U
67-72-1	Hexachloroethane	170	U
98-95-3	Nitrobenzene	170	U
78-59-1	Isophorone	170	U
88-75-5	2-Nitrophenol	170	U
105-67-9	2,4-Dimethylphenol	170	U
111-91-1	Bis(2-chloroethoxy)methane	170	U
120-83-2	2,4-Dichlorophenol	170	U
91-20-3	Naphthalene	170	U
106-47-8	4-Chloroaniline	170	U
87-68-3	Hexachlorobutadiene	170	U
105-60-2	Caprolactam	170	U
59-50-7	4-Chloro-3-methylphenol	170	U
91-57-6	2-Methylnaphthalene	170	U
77-47-4	Hexachlorocyclopentadiene	170	U
88-06-2	2,4,6-Trichlorophenol	170	U
95-95-4	2,4,5-Trichlorophenol	170	U
92-52-4	1,1'-Biphenyl	170	U
91-58-7	2-Chloronaphthalene	170	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	170	U
606-20-2	2,6-Dinitrotoluene	170	U
208-96-8	Acenaphthylene	170	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	170	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03RE

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: PB37183BRE

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041325.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N) N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	170	U
121-14-2	2,4-Dinitrotoluene	170	U
84-66-2	Diethylphthalate	170	U
86-73-7	Fluorene	170	U
7005-72-3	4-Chlorophenyl-phenylether	170	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine[1]	170	U
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U
101-55-3	4-Bromophenyl-phenylether	170	U
118-74-1	Hexachlorobenzene	170	U
1912-24-9	Atrazine	170	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	170	U
120-12-7	Anthracene	170	U
86-74-8	Carbazole	170	U
84-74-2	Di-n-butylphthalate	170	U
206-44-0	Fluoranthene	170	U
129-00-0	Pyrene	170	U
85-68-7	Butylbenzylphthalate	170	U
91-94-1	3,3'-Dichlorobenzidine	170	U
56-55-3	Benzo(a)anthracene	170	U
218-01-9	Chrysene	170	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	JB
117-84-0	Di-n-octylphthalate	170	U
205-99-2	Benzo(b)fluoranthene	170	U
207-08-9	Benzo(k)fluoranthene	170	U
50-32-8	Benzo(a)pyrene	170	U
193-39-5	Indeno(1,2,3-cd)pyrene	170	U
53-70-3	Dibenzo(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	170	U
58-90-2	2,3,4,6-Tetrachlorophenol	170	U

[1]Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK03RE

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: PB37183BRE

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041325.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 0.0 Decanted: (Y/N): N Date Received:

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

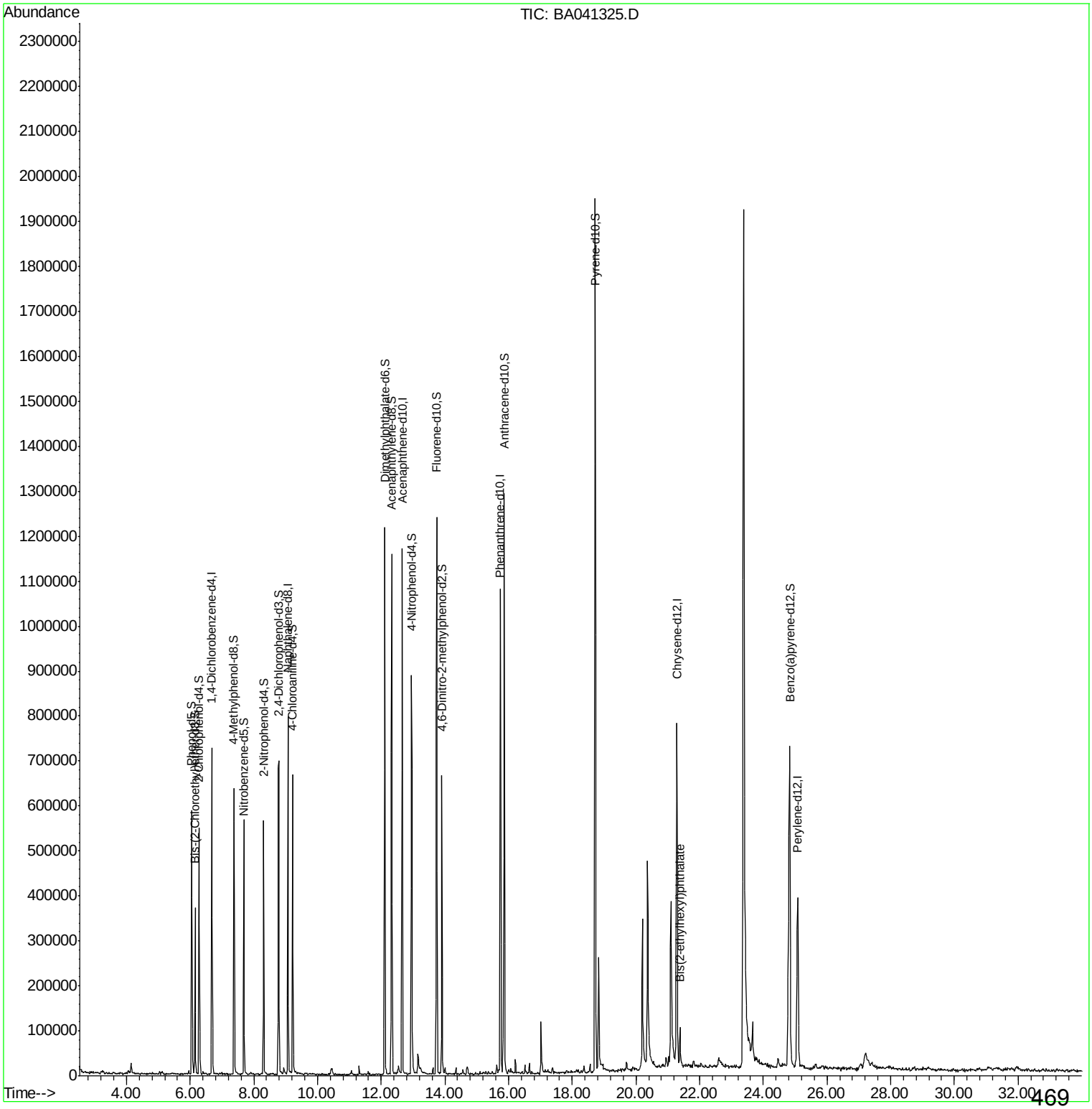
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01.	57-10-3	n-Hexadecanoic acid	17.01	86	JNB
02.	629-54-9	Hexadecanamide	18.83	210	JNB
03.	301-02-0	9-Octadecenamide, (Z)-	20.20	300	JNB
04.	1120-16-7	Dodecanamide	20.36	430	JNB
05.	3452-07-1	1-Eicosene	21.10	480	JN
06.	112-84-5	13-Docosenamide, (Z)-	23.38	3300	JNB
07.	336879-76-6	1,3-Dioxolan-2-one, 3-methyl-3-	23.66	130	JN
08.		unknown27.22	27.22	90	J
09.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
	[2] E966796	Total Alkanes	N/A		

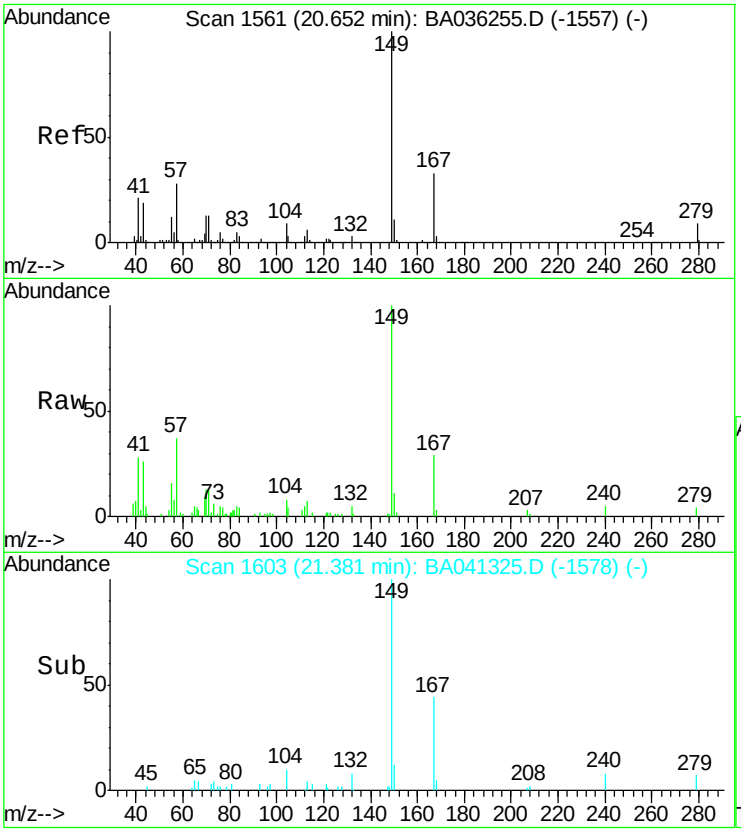
[2]EPA-designated Registry Number.

Quantitation Report (LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 01:27:00 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

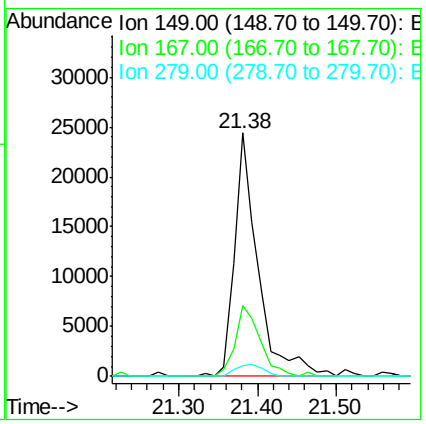




#79
Bis(2-ethylhexyl)phthalate
Concen: 3.07 ng/ul
RT: 21.38 min Scan# 1603
Delta R.T. -0.00 min
Lab File: BA041325.D
Acq: 20 Oct 2008 16:42

Tgt Ion:149 Resp: 50325

Ion	Ratio	Lower	Upper
149	100		
167	29.1	26.2	39.4
279	4.2	7.7	11.5#



Quantitation Report (LSC Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 01:27:00 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	177740	20.00	ng/ul	0.00
16) Naphthalene-d8	9.08	136	599589	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.66	164	426701	20.00	ng/ul	0.00
59) Phenanthrene-d10	15.74	188	766527	20.00	ng/ul	-0.01
73) Chrysene-d12	21.29	240	582119	20.00	ng/ul	0.00
81) Perylene-d12	25.08	264	496271	20.00	ng/ul	0.00
System Monitoring Compounds						
3) Phenol-d5	6.05	99	207341	19.27	ng/ul	-0.01
5) Bis-(2-Chloroethyl)ether-d	6.15	67	144603	19.82	ng/ul	0.00
7) 2-Chlorophenol-d4	6.28	132	182245	19.93	ng/ul	-0.01
11) 4-Methylphenol-d8	7.37	113	165326	22.64	ng/ul	-0.01
17) Nitrobenzene-d5	7.69	128	105797	19.93	ng/ul	0.00
20) 2-Nitrophenol-d4	8.30	143	125105	19.15	ng/ul	-0.01
24) 2,4-Dichlorophenol-d3	8.79	165	229314	18.96	ng/ul	0.00
27) 4-Chloroaniline-d4	9.22	131	234344	19.60	ng/ul	0.00
41) Dimethylphthalate-d6	12.11	166	682343	24.01	ng/ul	0.00
44) Acenaphthylene-d8	12.33	160	774478	22.42	ng/ul	0.00
49) 4-Nitrophenol-d4	12.96	143	193621	33.43	ng/ul	0.00
55) Fluorene-d10	13.74	176	510424	22.33	ng/ul	0.00
60) 4,6-Dinitro-2-methylphenol	13.91	200	155061	19.55	ng/ul	-0.01
68) Anthracene-d10	15.86	188	927316	25.27	ng/ul	0.00
74) Pyrene-d10	18.72	212	1387202	54.54	ng/ul	0.00
85) Benzo(a)pyrene-d12	24.83	264	978444	36.20	ng/ul	0.01
Target Compounds						Qvalue
79) Bis(2-ethylhexyl)phthalate	21.38	149	50325	3.07	ng/ul#	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.203	54	58	61	rBV4	5577	17109	0.28%	0.038%
2	4.142	136	138	142	rVB	22273	37380	0.61%	0.084%
3	5.037	212	214	217	rVB2	7675	16667	0.27%	0.037%
4	5.119	219	221	226	rVB4	7247	16569	0.27%	0.037%
5	5.952	287	292	297	rBV3	9360	17344	0.28%	0.039%
6	6.047	297	300	306	rVV	586671	910760	14.84%	2.046%
7	6.152	306	309	314	rVV	369629	570818	9.30%	1.282%
8	6.282	317	320	327	rVB	549589	893693	14.56%	2.007%
9	6.399	327	330	332	rBV2	7521	14618	0.24%	0.033%
10	6.680	350	354	359	rBV	726264	1179123	19.21%	2.648%
11	6.998	376	381	382	rVB3	5147	11969	0.19%	0.027%
12	7.375	410	413	417	rBV	634516	1028781	16.76%	2.311%
13	7.680	436	439	443	rBV	564942	898617	14.64%	2.018%
14	7.904	454	458	461	rVV3	5528	16990	0.28%	0.038%
15	8.303	489	492	496	rBV	565005	894575	14.57%	2.009%
16	8.785	529	533	536	rBV	697401	1188643	19.36%	2.670%
17	8.937	544	546	554	rBV4	14492	38177	0.62%	0.086%
18	9.078	554	558	561	rBV	795423	1346886	21.94%	3.025%
19	9.219	567	570	573	rBV	662896	923879	15.05%	2.075%
20	10.429	670	673	678	rBV3	13811	39926	0.65%	0.090%
21	11.063	725	727	730	rVB2	8451	14726	0.24%	0.033%
22	11.299	746	747	751	rVB2	20076	27511	0.45%	0.062%
23	12.109	812	816	819	rBV	1217207	1688295	27.50%	3.792%
24	12.333	831	835	838	rBV	1156194	1711254	27.87%	3.844%
25	12.439	841	844	847	rVB2	5256	10745	0.18%	0.024%
26	12.544	849	853	859	rVB2	16425	41564	0.68%	0.093%
27	12.662	859	863	866	rBV	1167655	1732370	28.22%	3.891%
28	12.956	884	888	891	rBV	886637	1557630	25.37%	3.499%
29	13.156	902	905	909	rBV	42919	100411	1.64%	0.226%
30	13.626	940	945	947	rBV2	14154	23807	0.39%	0.053%
31	13.743	951	955	958	rBV	1235232	1921830	31.30%	4.317%
32	13.908	965	969	972	rBV	661019	1009149	16.44%	2.267%
33	14.003	975	977	980	rVB	15949	25652	0.42%	0.058%
34	14.344	1002	1006	1009	rBV2	16367	29842	0.49%	0.067%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.565	1021	1025	1028	rVV	9272	13275	0.22%	0.030%
36	14.695	1033	1036	1037	rBV2	17060	28832	0.47%	0.065%
37	14.965	1055	1059	1062	rBV3	4151	11378	0.19%	0.026%
38	15.365	1091	1093	1097	rVB	6472	11989	0.20%	0.027%
39	15.483	1101	1103	1106	rVB2	6184	12585	0.20%	0.028%
40	15.636	1112	1116	1118	rBV2	21098	36983	0.60%	0.083%
41	15.695	1118	1121	1122	rVV2	9196	16268	0.26%	0.037%
42	15.754	1122	1126	1129	rVV	1077133	1960576	31.94%	4.404%
43	15.860	1131	1135	1139	rVV	1289620	2420248	39.42%	5.436%
44	15.919	1139	1140	1144	rVB	10266	16671	0.27%	0.037%
45	16.013	1144	1148	1151	rBV3	9400	26589	0.43%	0.060%
46	16.059	1151	1152	1157	rVB2	9005	18416	0.30%	0.041%
47	16.212	1163	1165	1168	rVB	31114	48836	0.80%	0.110%
48	16.518	1189	1191	1197	rVV2	19832	29302	0.48%	0.066%
49	16.659	1201	1203	1205	rVB	23739	32947	0.54%	0.074%
50	17.013	1230	1233	1240	rBV2	117933	252624	4.11%	0.567%
51	17.143	1242	1244	1247	rVV3	7143	15019	0.24%	0.034%
52	17.237	1249	1252	1253	rVB3	5127	10383	0.17%	0.023%
53	17.379	1260	1264	1266	rVB3	12585	24358	0.40%	0.055%
54	17.414	1266	1267	1270	rBV2	6327	11690	0.19%	0.026%
55	17.827	1301	1302	1306	rVB4	7130	11719	0.19%	0.026%
56	18.122	1325	1327	1329	rBV	7337	13273	0.22%	0.030%
57	18.179	1331	1332	1335	rVB2	8011	13926	0.23%	0.031%
58	18.286	1339	1341	1344	rVB2	7089	13897	0.23%	0.031%
59	18.369	1344	1348	1351	rBV	17129	41200	0.67%	0.093%
60	18.556	1361	1364	1368	rVB2	20257	39715	0.65%	0.089%
61	18.722	1373	1378	1381	rBV	1939851	3532094	57.53%	7.933%
62	18.829	1384	1387	1393	rBV	243198	475559	7.75%	1.068%
63	19.195	1416	1418	1420	rBV2	5544	11623	0.19%	0.026%
64	19.290	1425	1426	1430	rVB2	5526	11407	0.19%	0.026%
65	19.443	1437	1439	1441	rBV3	6331	14230	0.23%	0.032%
66	19.703	1458	1461	1464	rBV3	17704	36909	0.60%	0.083%
67	19.905	1475	1478	1479	rBV2	9288	17210	0.28%	0.039%
68	20.199	1500	1503	1512	rBV	324000	676940	11.03%	1.520%
69	20.363	1514	1517	1529	rVB	452024	980851	15.98%	2.203%
70	20.944	1564	1566	1571	rVV4	18639	51593	0.84%	0.116%
71	21.026	1571	1573	1576	rVV2	22108	55137	0.90%	0.124%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : \\TERASTORAGE\SVOASRV\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

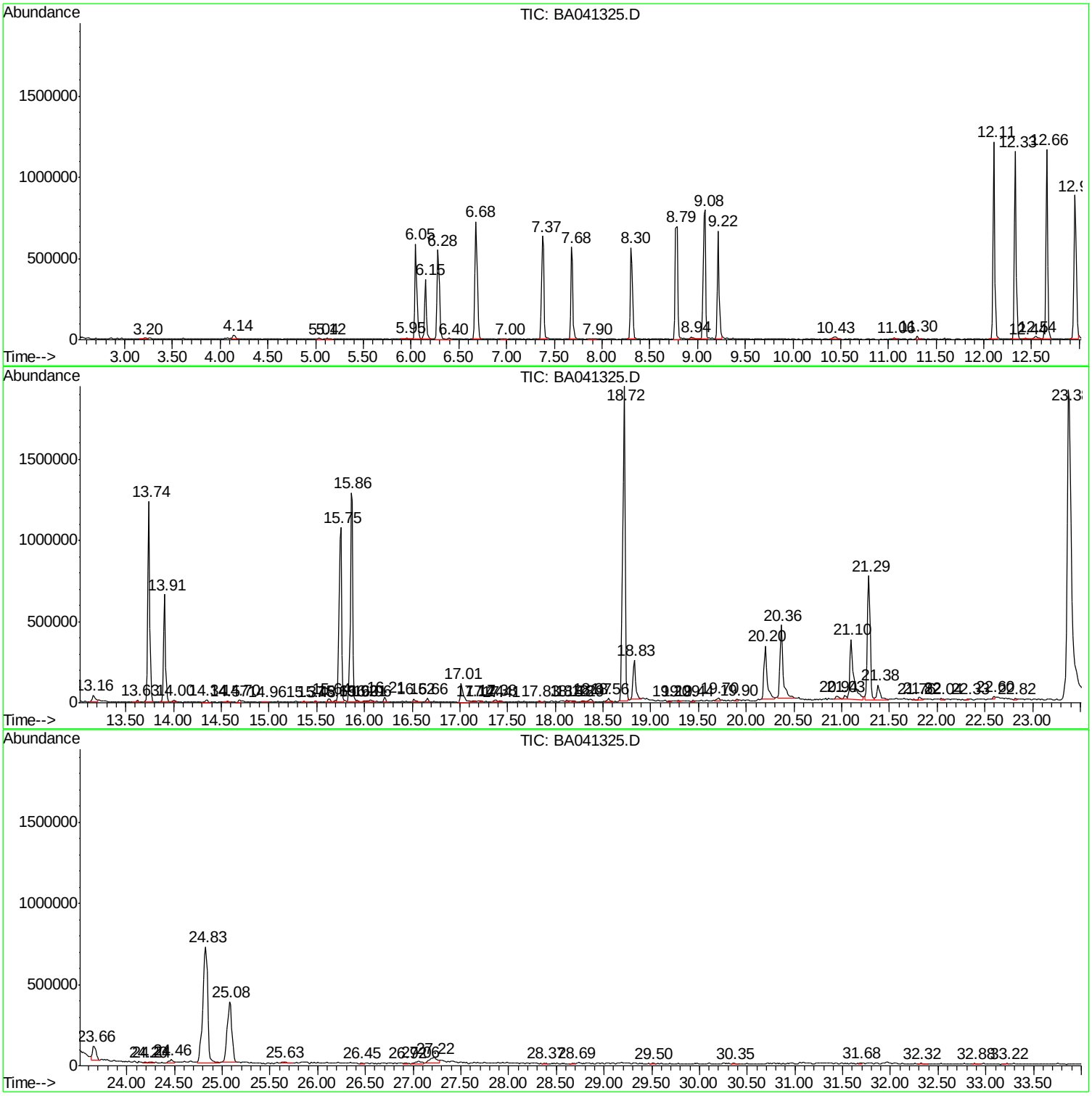
72	21.098	1576	1579	1590	rVV2	368559	1092117	17.79%	2.453%
73	21.286	1591	1595	1600	rVV	763965	1520502	24.77%	3.415%
74	21.381	1600	1603	1612	rVB	90069	214039	3.49%	0.481%
75	21.760	1633	1635	1638	rBV4	6187	10654	0.17%	0.024%
76	21.819	1638	1640	1643	rBV4	14207	31869	0.52%	0.072%
77	22.043	1658	1659	1662	rVB3	7844	10999	0.18%	0.025%
78	22.326	1680	1683	1684	rBV3	6265	11488	0.19%	0.026%
79	22.596	1704	1706	1707	rBV2	16317	23565	0.38%	0.053%
80	22.820	1723	1725	1727	rBV2	7755	11928	0.19%	0.027%
81	23.376	1766	1772	1785	rBV	1903266	6139184	100.00%	13.789%
82	23.660	1793	1796	1801	rVB2	87010	236187	3.85%	0.531%
83	24.203	1839	1842	1843	rVB3	8679	14893	0.24%	0.033%
84	24.239	1843	1845	1849	rBV4	7578	21752	0.35%	0.049%
85	24.463	1860	1864	1867	rBV5	20028	57761	0.94%	0.130%
86	24.829	1887	1895	1907	rVB	713189	2524491	41.12%	5.670%
87	25.077	1909	1916	1922	rVB	376158	1247891	20.33%	2.803%
88	25.634	1961	1963	1971	rVB7	9179	30701	0.50%	0.069%
89	26.449	2031	2032	2035	rBV3	8112	14121	0.23%	0.032%
90	26.922	2070	2072	2074	rVB2	7710	11921	0.19%	0.027%
91	27.061	2077	2084	2088	rBV8	14033	73150	1.19%	0.164%
92	27.215	2090	2097	2102	rBV7	30538	168801	2.75%	0.379%
93	28.372	2193	2195	2198	rVB4	6828	11106	0.18%	0.025%
94	28.689	2218	2222	2223	rBV3	6432	10938	0.18%	0.025%
95	29.503	2289	2291	2294	rBV3	5060	11396	0.19%	0.026%
96	30.354	2361	2363	2367	rBV4	6459	17154	0.28%	0.039%
97	31.677	2474	2475	2477	rBV	5946	11116	0.18%	0.025%
98	32.315	2527	2529	2536	rVB5	5533	15433	0.25%	0.035%
99	32.881	2575	2577	2582	rVB3	5920	11851	0.19%	0.027%
100	33.224	2602	2606	2607	rBV3	6482	10863	0.18%	0.024%

Sum of corrected areas: 44521433

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

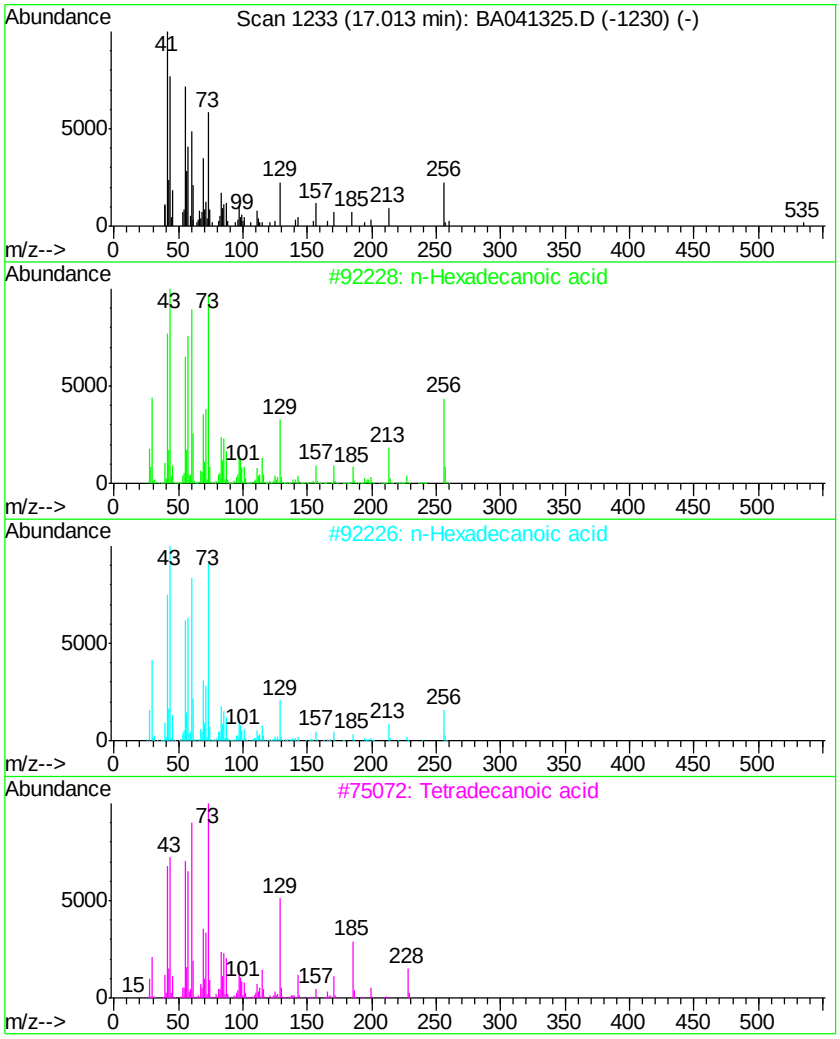
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

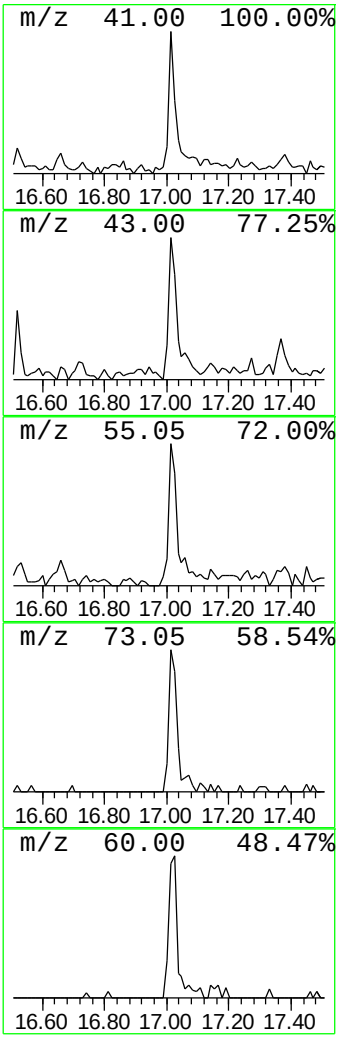
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.01	2.58 ng/ul	252624	Phenanthrene-d10	15.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	59
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	47
4	1-Phenazinecarboxylic acid, 6-[1...	506	C31H42N2O4	120464-92-8	47
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	43





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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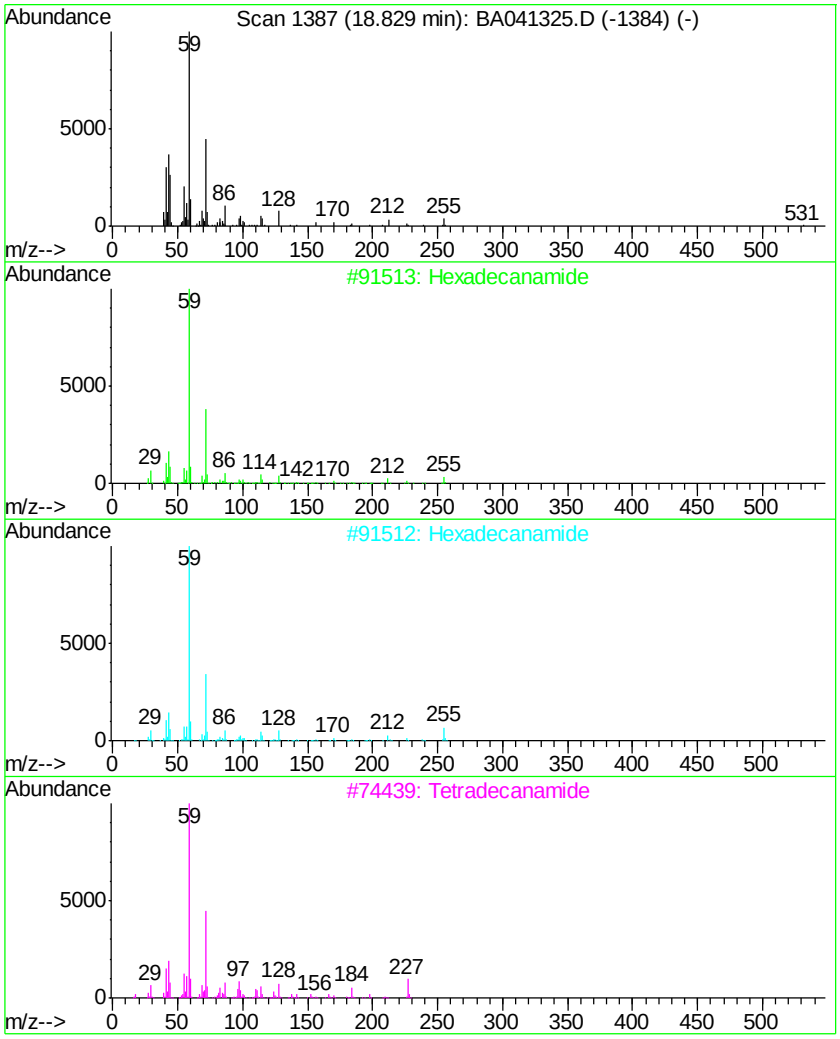
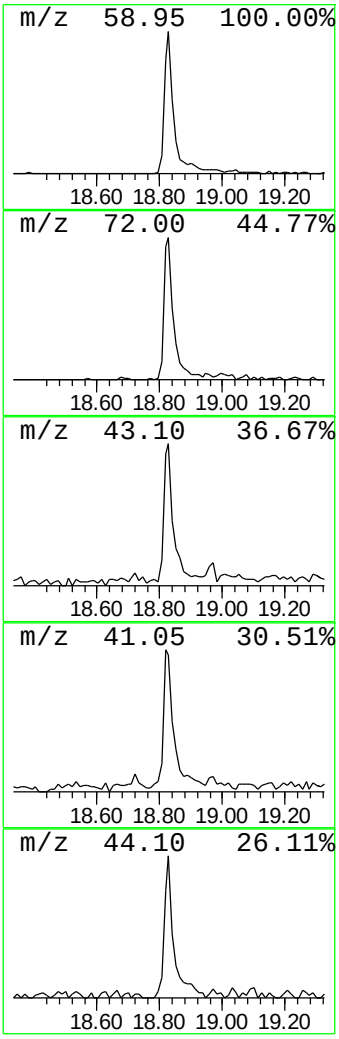
Peak Number 2 Hexadecanamide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.83	6.26 ng/ul	475559	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanamide	255	C16H33NO	000629-54-9	96
2	Hexadecanamide	255	C16H33NO	000629-54-9	93
3	Tetradecanamide	227	C14H29NO	000638-58-4	81
4	Tetradecanamide	227	C14H29NO	000638-58-4	80
5	Tetradecanamide	227	C14H29NO	000638-58-4	74





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

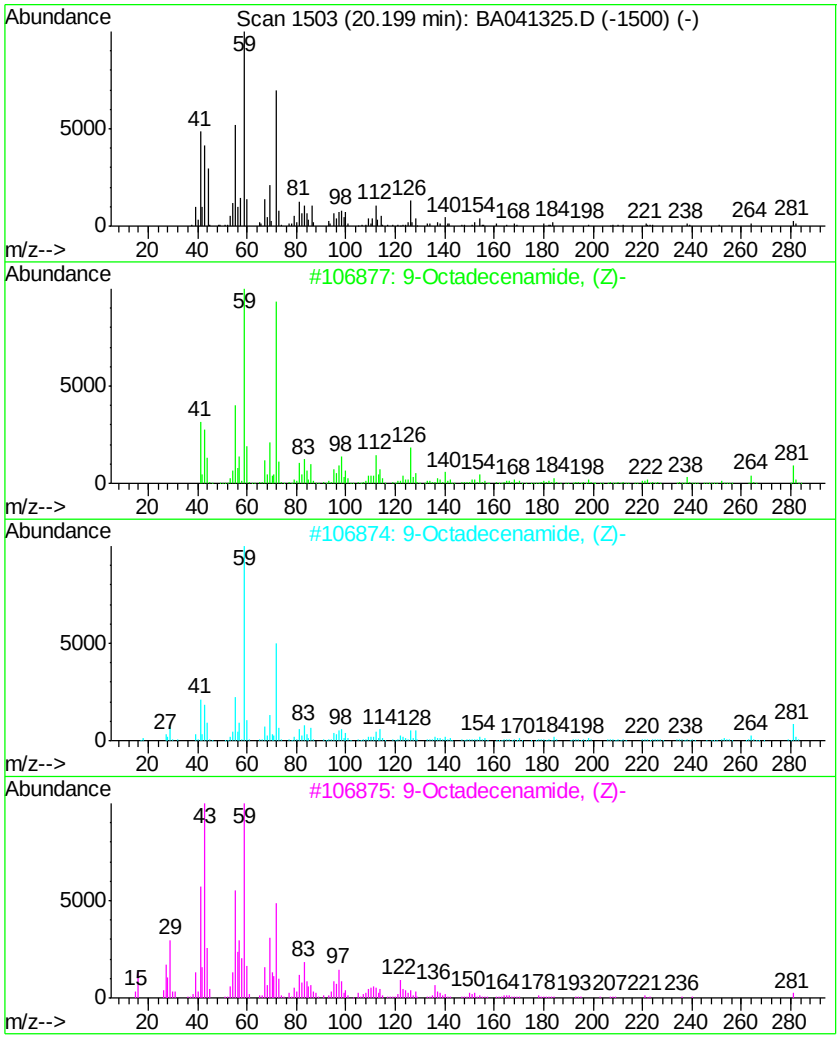
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

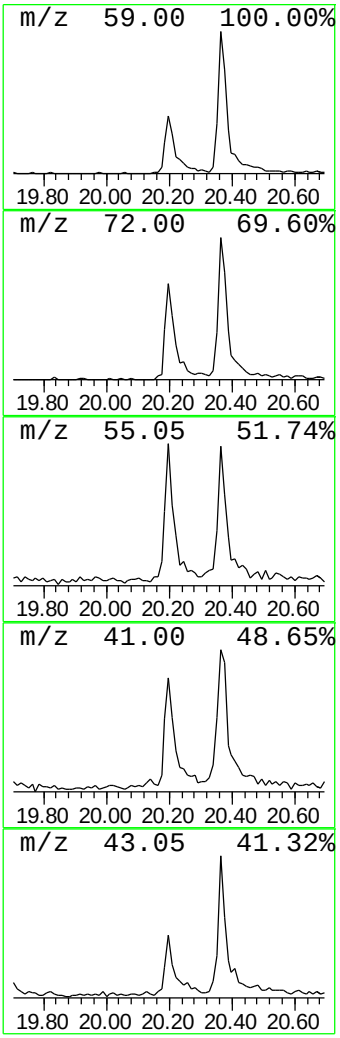
****

Peak Number 3 9-Octadecenamide, (Z)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.20	8.90 ng/ul	676940	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	92
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	91
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	80
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64
5	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	58





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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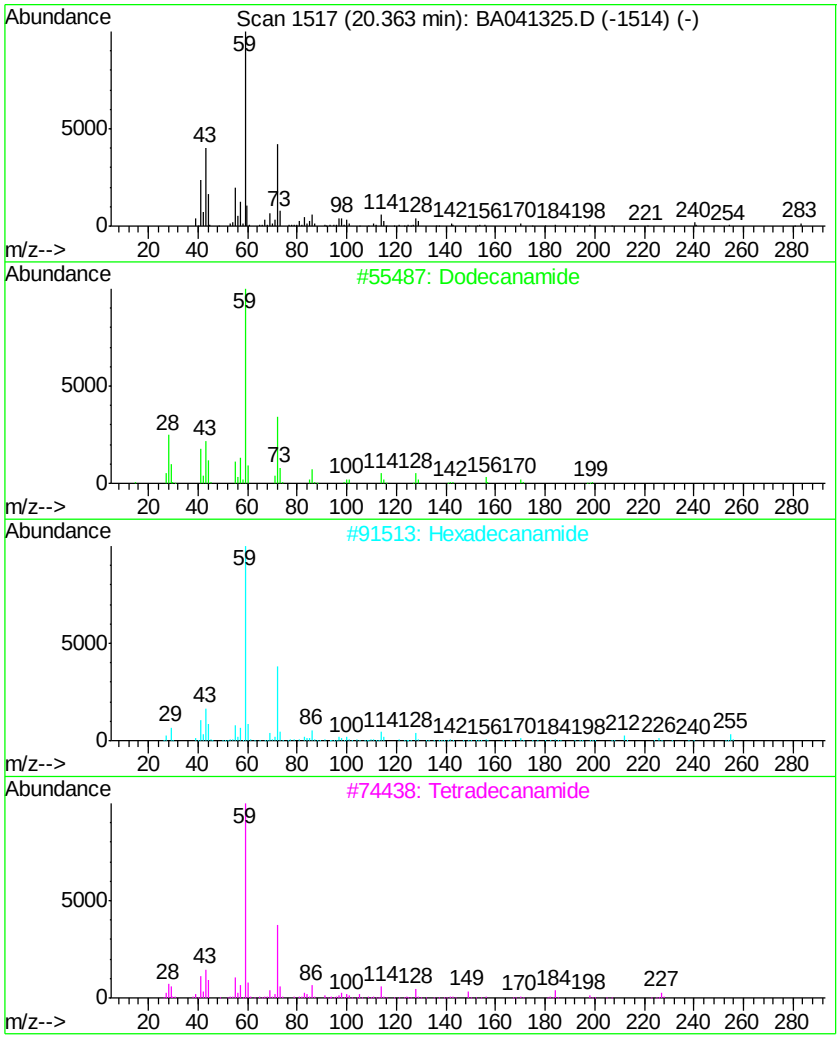
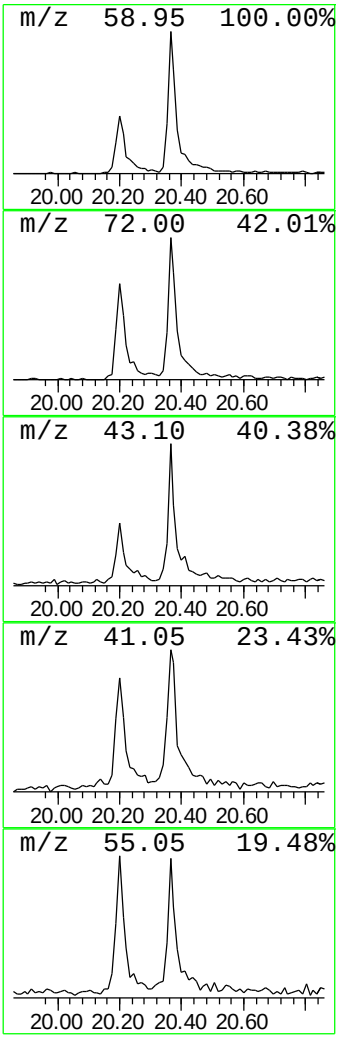
Peak Number 4 Dodecanamide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.36	12.90 ng/ul	980851	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecanamide	199	C12H25NO	001120-16-7	86
2	Hexadecanamide	255	C16H33NO	000629-54-9	83
3	Tetradecanamide	227	C14H29NO	000638-58-4	83
4	Dodecanamide	199	C12H25NO	001120-16-7	78
5	Hexadecanamide	255	C16H33NO	000629-54-9	78





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

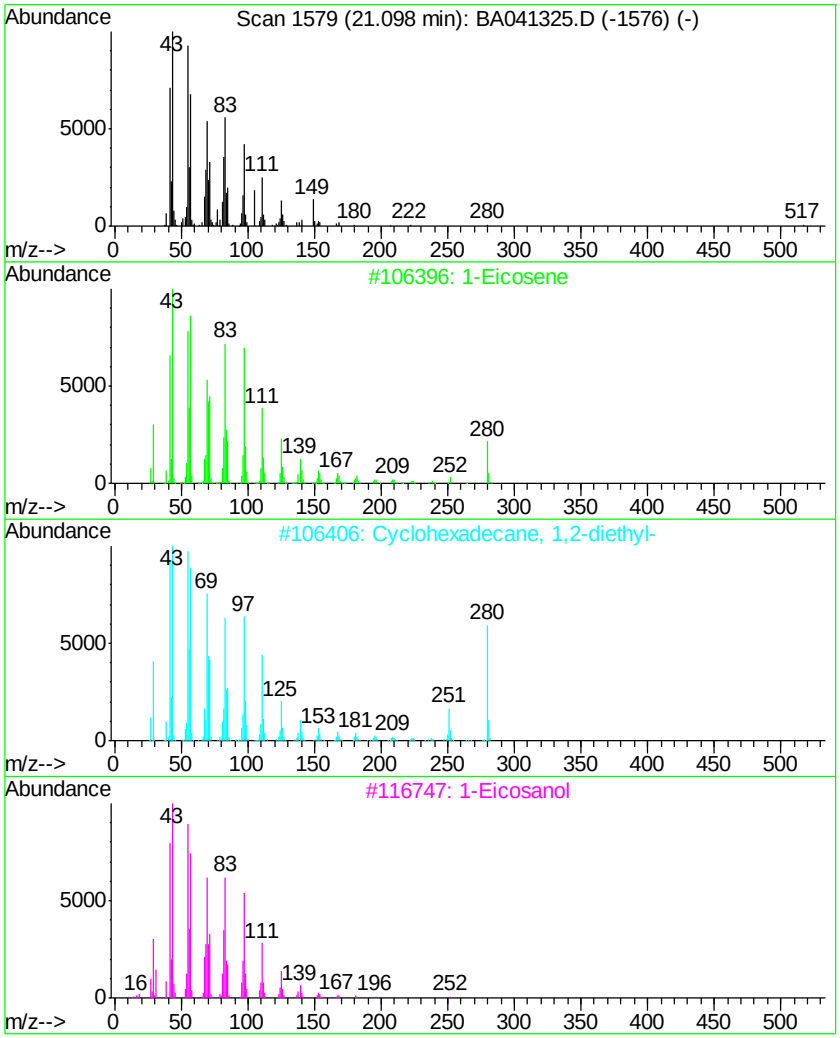
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

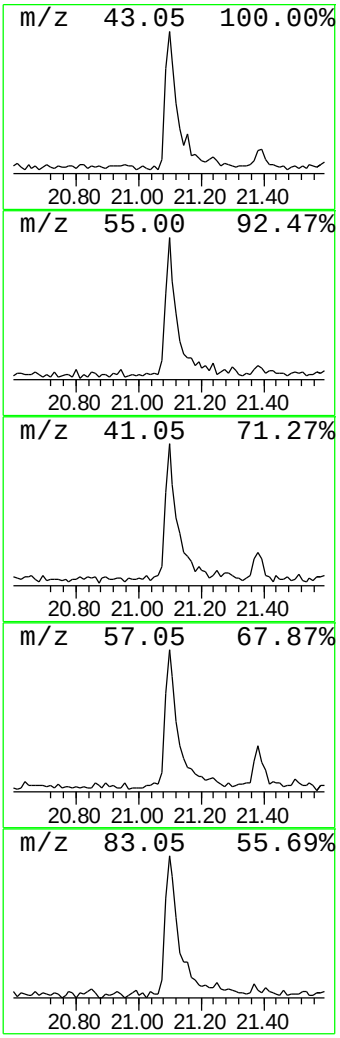
****

Peak Number 5 1-Eicosene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.10	14.37 ng/ul	1092120	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Eicosene	280	C20H40	003452-07-1	90
2	Cyclohexadecane, 1,2-diethyl-	280	C20H40	1000155-85-3	90
3	1-Eicosanol	298	C20H42O	000629-96-9	87
4	1-Eicosanol	298	C20H42O	000629-96-9	87
5	1-Heneicosyl formate	340	C22H44O2	077899-03-7	83





Library Search Compound Report

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Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On    : 20 Oct 2008  16:42
Operator  : HNP
Sample    : PB37183BRE
Misc      :
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library    : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P
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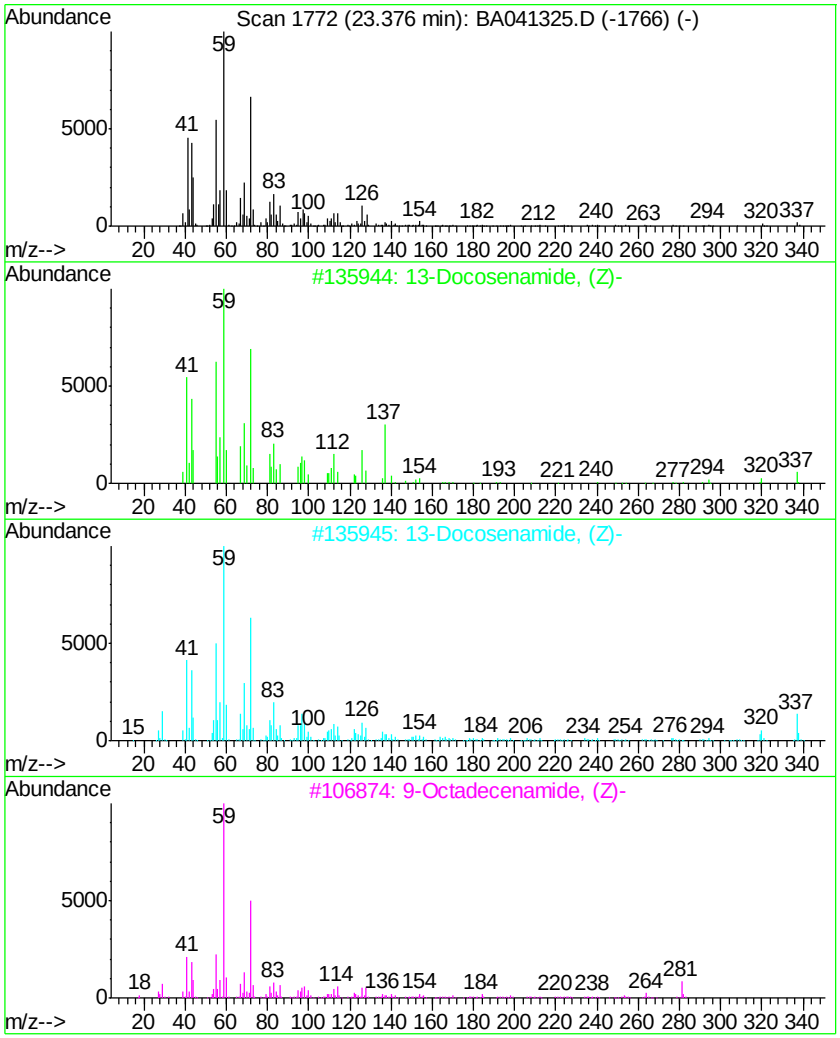
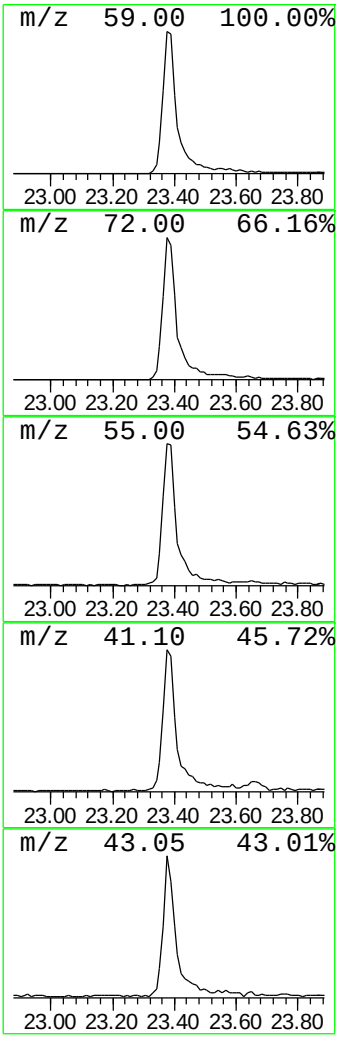
****

Peak Number 6 13-Docosenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.38	98.39 ng/ul	6139180	Perylene-d12	25.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	81
2	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	76
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	72
4	Octanamide	143	C8H17NO	000629-01-6	59
5	Dodecanamide	199	C12H25NO	001120-16-7	59





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

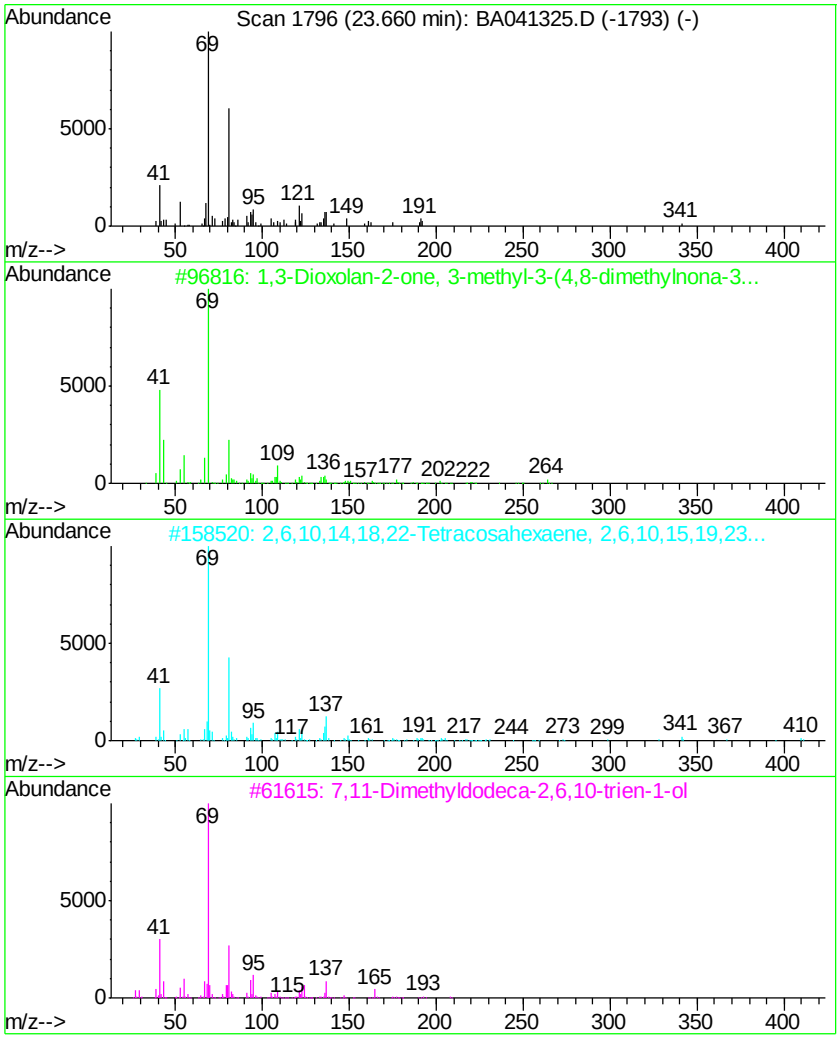
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

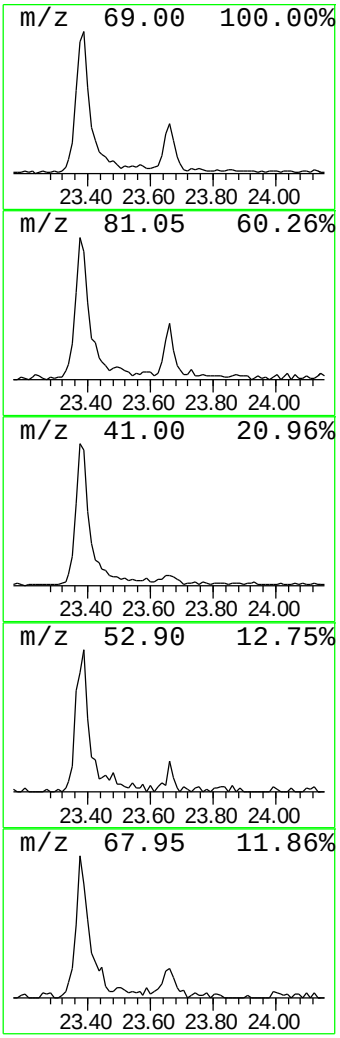
****

Peak Number 7 1,3-Dioxolan-2-one, 3-methy... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.66	3.79 ng/ul	236187	Perylene-d12	25.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolan-2-one, 3-methyl-3-(...	264	C16H24O3	336879-76-6	64
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	64
3	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	59
4	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	000106-28-5	56
5	3-Cyclohexene-1-carboxaldehyde, ...	192	C13H20O	052475-89-5	53





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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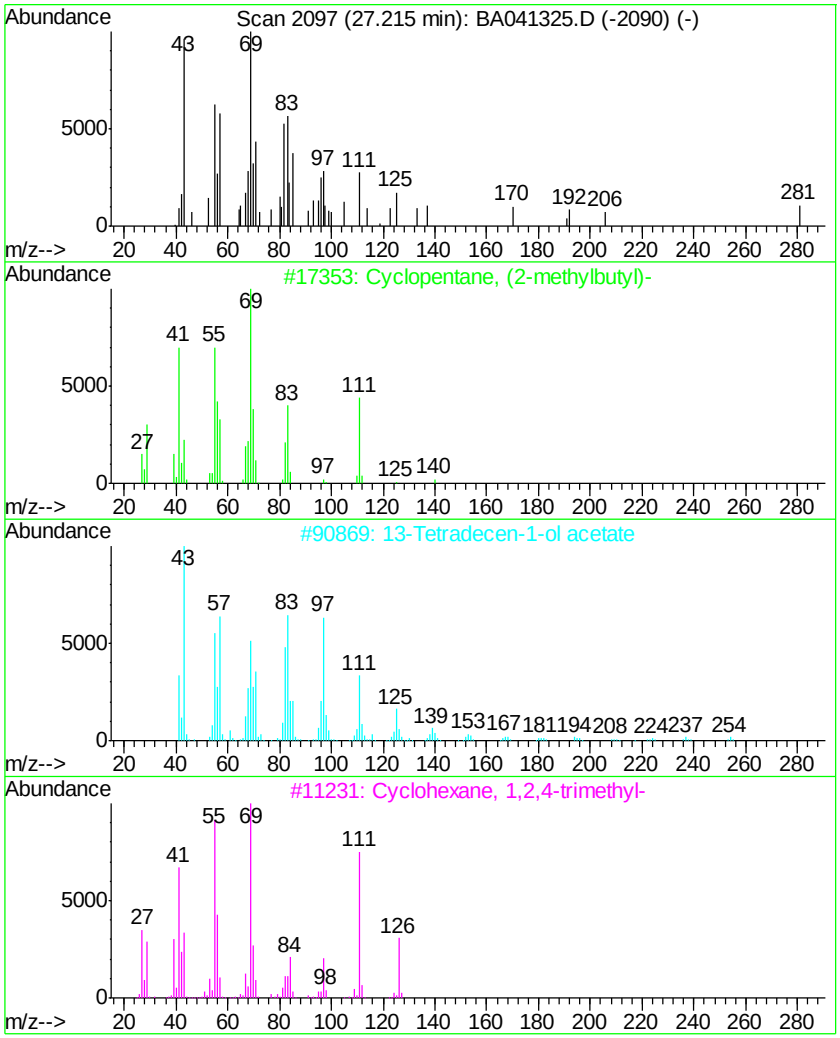
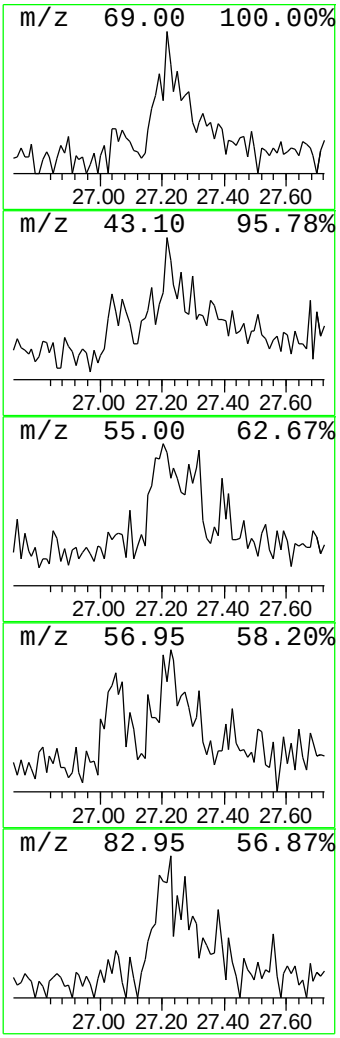
Peak Number 8 unknown27.22 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
27.22	2.71 ng/ul	168801	Perylene-d12	25.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, (2-methylbutyl)-	140	C10H20	053366-38-4	38
2	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	38
3	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	38
4	Cyclohexane, (1,2-dimethylbutyl)-	168	C12H24	061142-37-8	38
5	1-Hexadecanol	242	C16H34O	036653-82-4	35





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_A\DATA\BA102008\
Data File : BA041325.D
Acq On : 20 Oct 2008 16:42
Operator : HNP
Sample : PB37183BRE
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
n-Hexadecanoic acid	17.01	2.6	ng/ul	252624	4	15.74	1960580	20.0
Hexadecanamide	18.83	6.3	ng/ul	475559	5	21.29	1520500	20.0
9-Octadecenamide,...	20.20	8.9	ng/ul	676940	5	21.29	1520500	20.0
Dodecanamide	20.36	12.9	ng/ul	980851	5	21.29	1520500	20.0
1-Eicosene	21.10	14.4	ng/ul	1092120	5	21.29	1520500	20.0
13-Docosenamide, ...	23.38	98.4	ng/ul	6139180	6	25.08	1247890	20.0
1,3-Dioxolan-2-on...	23.66	3.8	ng/ul	236187	6	25.08	1247890	20.0
unknown27.22	27.22	2.7	ng/ul	168801	6	25.08	1247890	20.0

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-3MS

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-09MS

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041316.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.16 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	220	U
108-95-2	Phenol	1200	
111-44-4	Bis(2-chloroethyl)ether	220	U
95-57-8	2-Chlorophenol	1100	
95-48-7	2-Methylphenol	220	U
108-60-1	2,2'-Oxybis(1-chloropropane)	220	U
98-86-2	Acetophenone	210	J
106-44-5	4-Methylphenol	220	U
621-64-7	N-Nitroso-di-n-propylamine	1300	
67-72-1	Hexachloroethane	220	U
98-95-3	Nitrobenzene	220	U
78-59-1	Isophorone	220	U
88-75-5	2-Nitrophenol	220	U
105-67-9	2,4-Dimethylphenol	220	U
111-91-1	Bis(2-chloroethoxy)methane	220	U
120-83-2	2,4-Dichlorophenol	220	U
91-20-3	Naphthalene	220	U
106-47-8	4-Chloroaniline	220	U
87-68-3	Hexachlorobutadiene	220	U
105-60-2	Caprolactam	220	U
59-50-7	4-Chloro-3-methylphenol	1500	
91-57-6	2-Methylnaphthalene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U
92-52-4	1,1'-Biphenyl	220	U
91-58-7	2-Chloronaphthalene	220	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	220	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	1300	
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	1400	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-3MS

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-09MS

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041316.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.16 Dilution Factor: 1.0

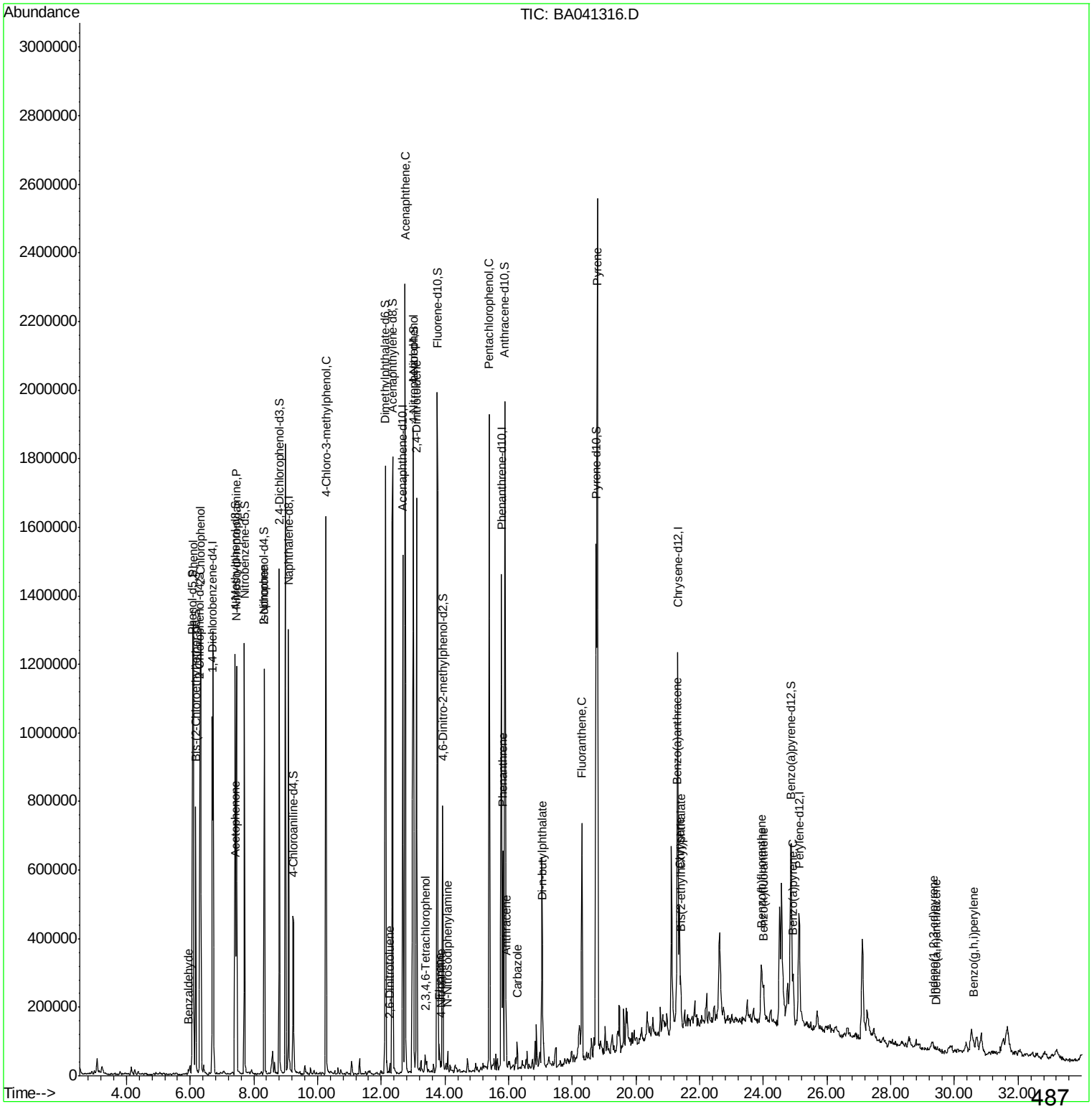
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	220	U
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	220	U
86-73-7	Fluorene	220	U
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	220	U
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U
101-55-3	4-Bromophenyl-phenylether	220	U
118-74-1	Hexachlorobenzene	220	U
1912-24-9	Atrazine	220	U
87-86-5	Pentachlorophenol	1500	
85-01-8	Phenanthrene	350	
120-12-7	Anthracene	79	J
86-74-8	Carbazole	220	U
84-74-2	Di-n-butylphthalate	120	J
206-44-0	Fluoranthene	380	
129-00-0	Pyrene	2100	
85-68-7	Butylbenzylphthalate	220	U
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	320	
218-01-9	Chrysene	360	
117-81-7	Bis(2-ethylhexyl)phthalate	120	JB
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	370	
207-08-9	Benzo(k)fluoranthene	140	J
50-32-8	Benzo(a)pyrene	250	
193-39-5	Indeno(1,2,3-cd)pyrene	90	J
53-70-3	Dibenzo(a,h)anthracene	220	U
191-24-2	Benzo(g,h,i)perylene	69	J
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1]Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041316.D
Acq On : 20 Oct 2008 9:03
Operator : QM
Sample : Z4920-09MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

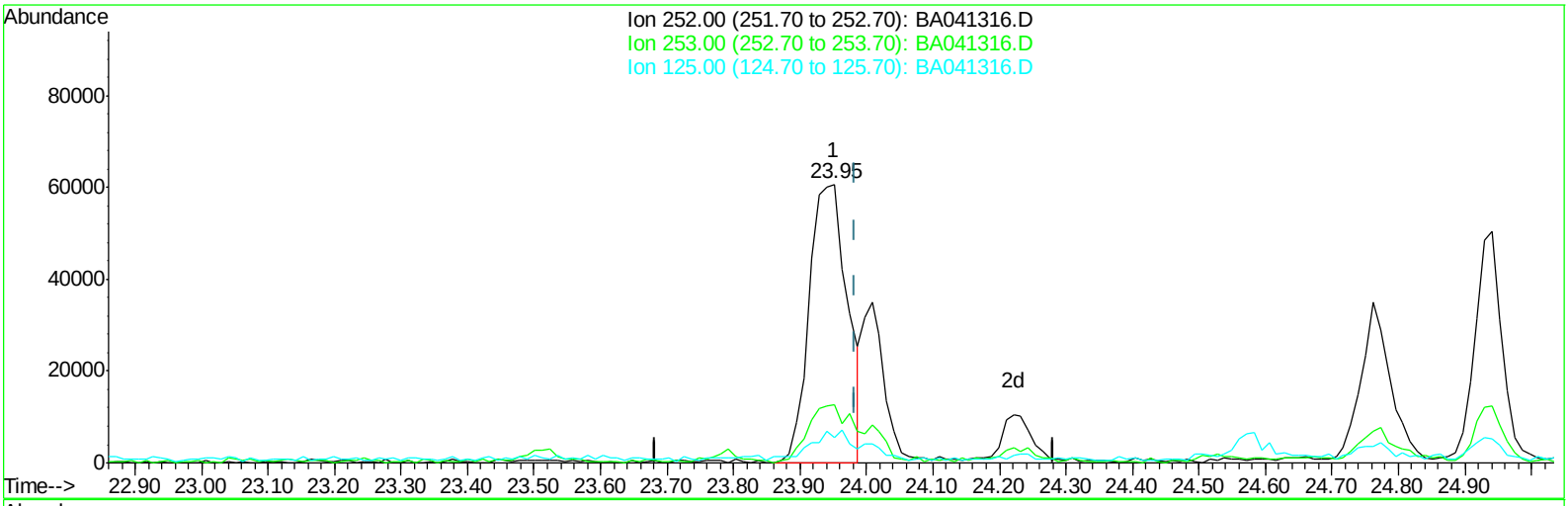
Quant Time: Oct 20 12:58:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

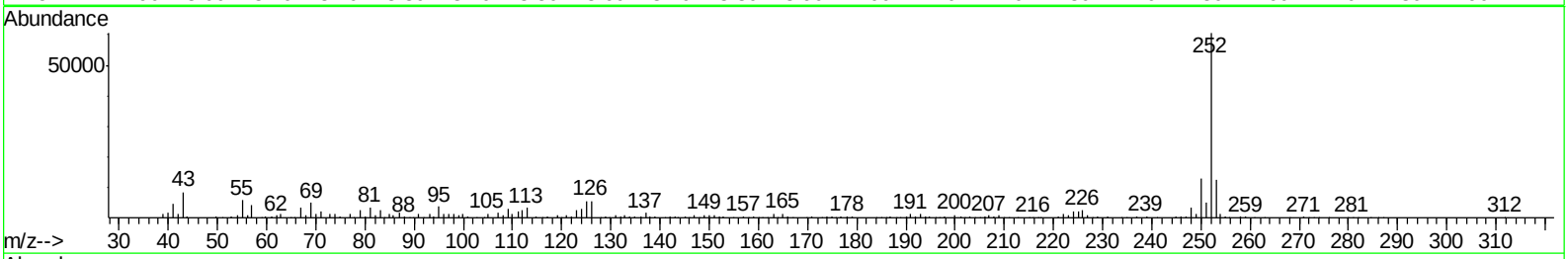


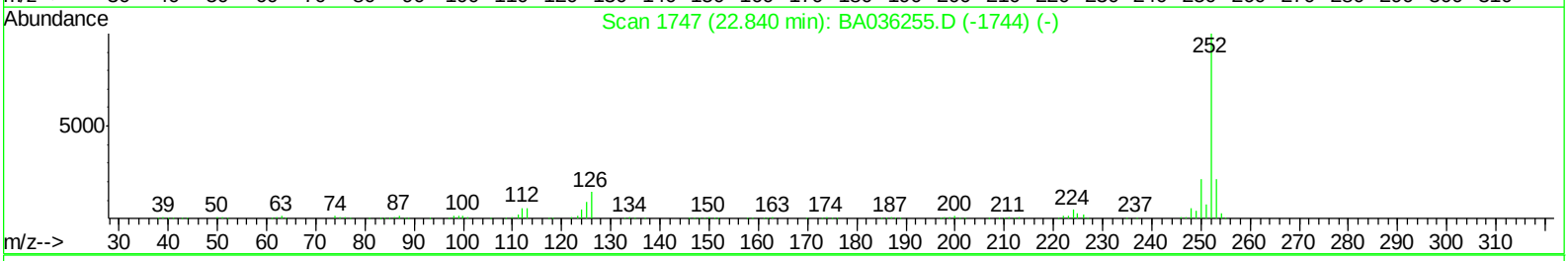
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041316.D
Acq On : 20 Oct 2008 9:03
Operator : QM
Sample : Z4920-09MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 11:30:31 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041316.D

(84) Benzo(k)fluoranthene

23.952min (-0.031) 10.10ng/ul

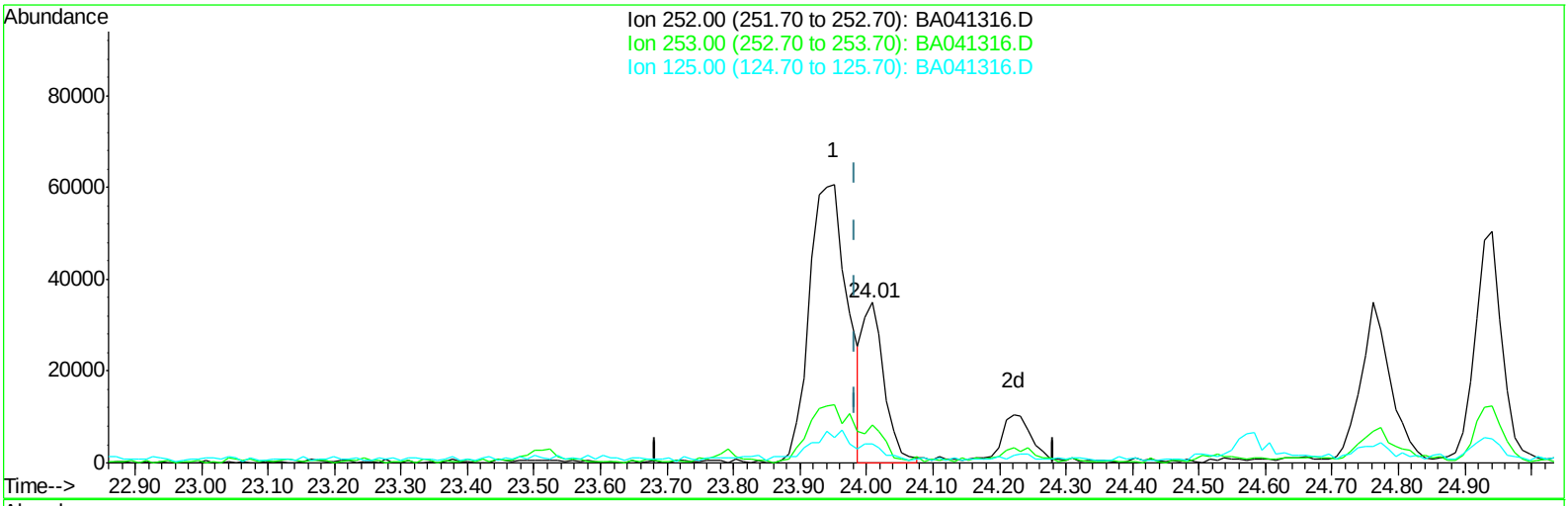
response 241375

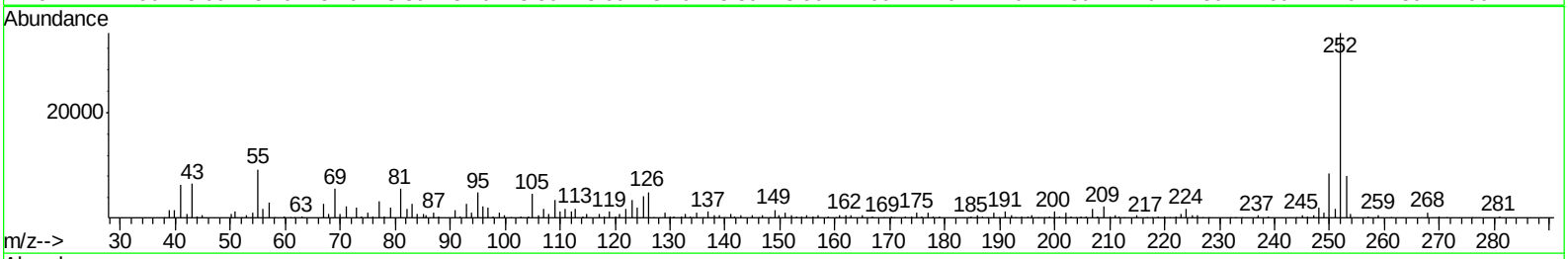
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	20.94
125.00	4.40	9.31#
0.00	0.00	0.00

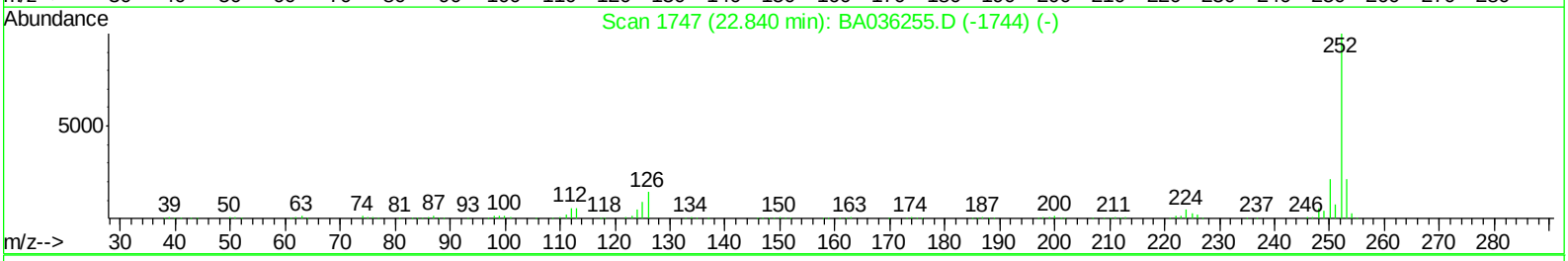
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041316.D
Acq On : 20 Oct 2008 9:03
Operator : QM
Sample : Z4920-09MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 11:30:31 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041316.D

(84) Benzo(k)fluoranthene

24.008min (+0.026) 3.36ng/ul m

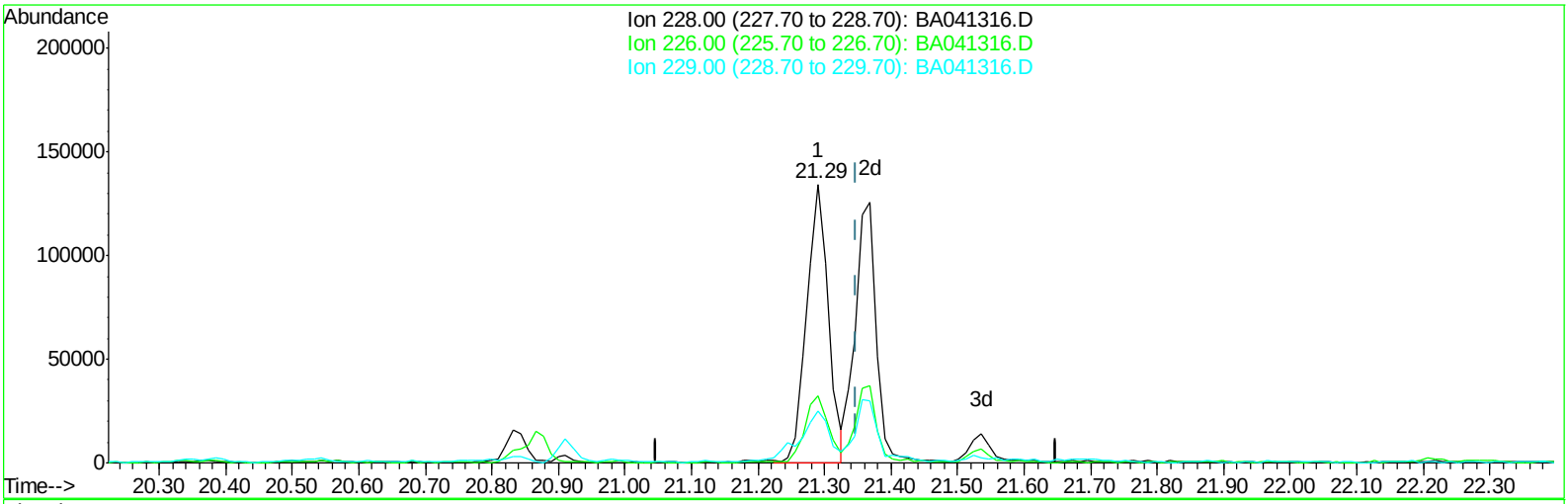
response 80251

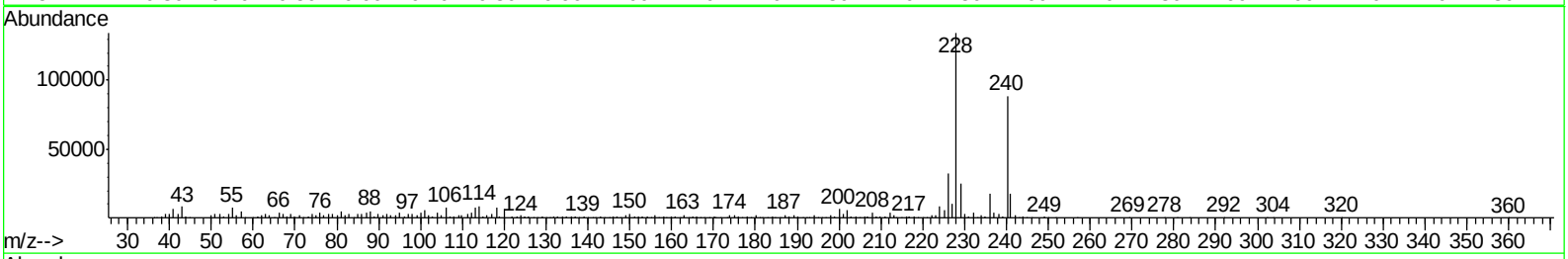
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	23.51
125.00	4.40	11.98#
0.00	0.00	0.00

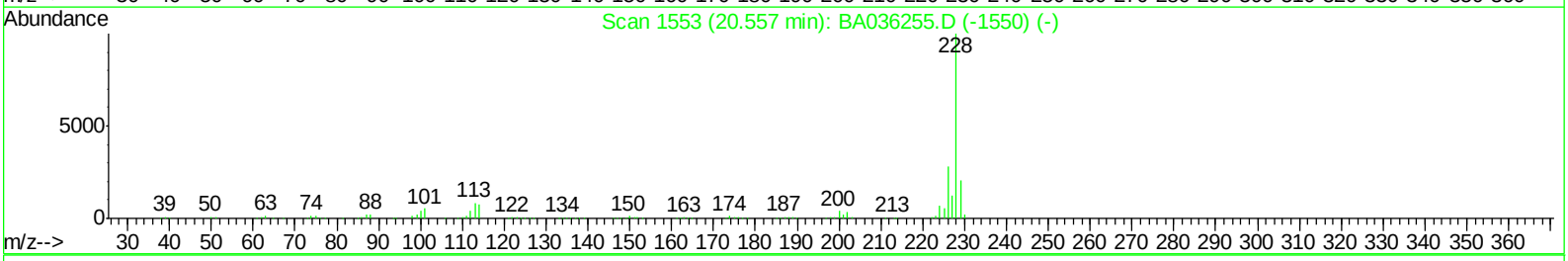
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041316.D
Acq On : 20 Oct 2008 9:03
Operator : QM
Sample : Z4920-09MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 11:30:31 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041316.D

(80) Chrysene

21.290min (-0.057) 9.06ng/ul

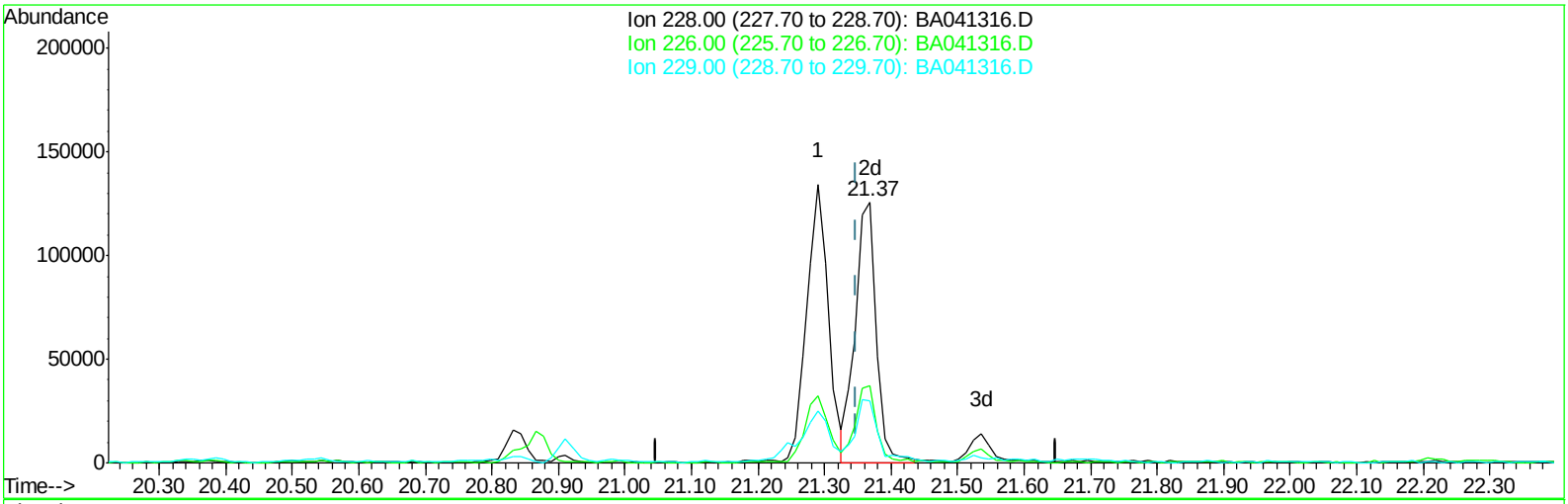
response 297493

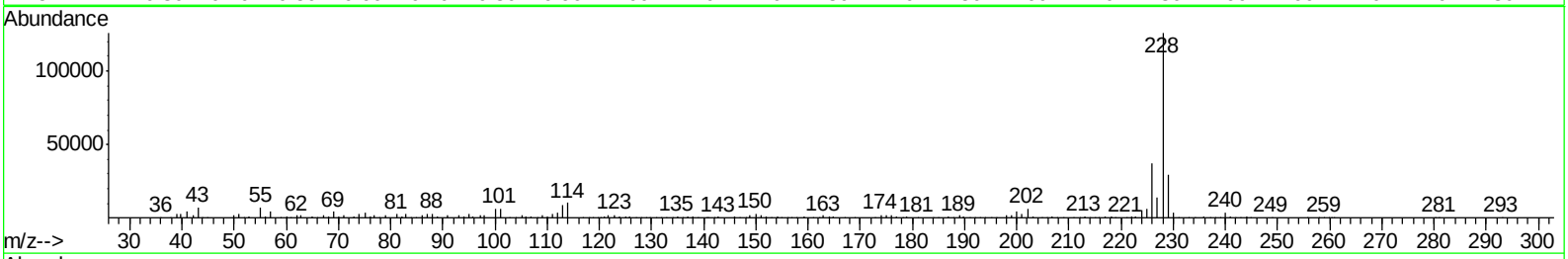
Ion	Exp%	Act%
228.00	100	100
226.00	25.80	23.98
229.00	18.00	18.54
0.00	0.00	0.00

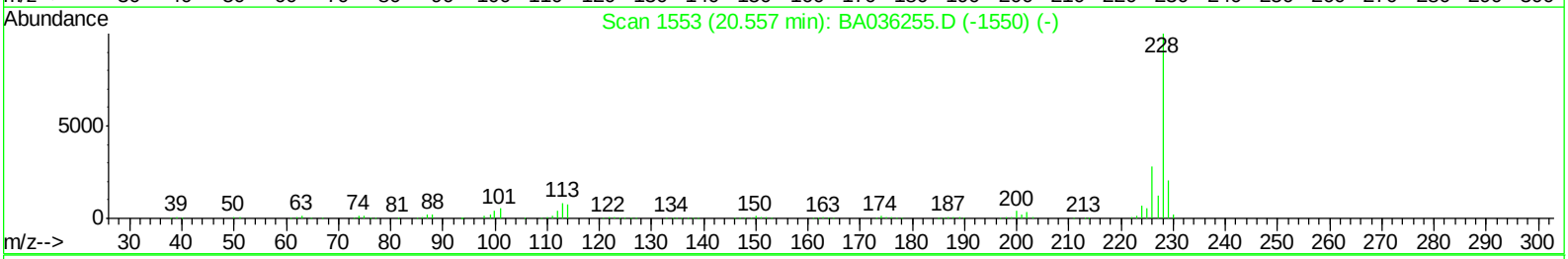
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041316.D
Acq On : 20 Oct 2008 9:03
Operator : QM
Sample : Z4920-09MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 11:30:31 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041316.D

(80) Chrysene

21.368min (+0.021) 8.44ng/ul m

response 277142

Ion	Exp%	Act%
228.00	100	100
226.00	25.80	29.48
229.00	18.00	23.63#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041316.D
Acq On : 20 Oct 2008 9:03
Operator : QM
Sample : Z4920-09MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 12:58:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	251725	20.00	ng/ul	0.02
16) Naphthalene-d8	9.09	136	760404	20.00	ng/ul	0.01
33) Acenaphthene-d10	12.68	164	587542	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.77	188	996731	20.00	ng/ul	0.02
73) Chrysene-d12	21.31	240	729437	20.00	ng/ul	0.02
81) Perylene-d12	25.13	264	430201	20.00	ng/ul	0.05
System Monitoring Compounds						
3) Phenol-d5	6.08	99	419820	27.55	ng/ul	0.02
5) Bis-(2-Chloroethyl)ether-d	6.17	67	286527	27.73	ng/ul	0.02
7) 2-Chlorophenol-d4	6.31	132	343765	26.54	ng/ul	0.01
11) 4-Methylphenol-d8	7.41	113	252328	24.40	ng/ul	0.02
17) Nitrobenzene-d5	7.71	128	215843	32.06	ng/ul	0.02
20) 2-Nitrophenol-d4	8.33	143	259920	31.37	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.80	165	470725	30.70	ng/ul	0.01
27) 4-Chloroaniline-d4	9.24	131	206345	13.61	ng/ul	0.02
41) Dimethylphthalate-d6	12.14	166	1261295	32.23	ng/ul	0.02
44) Acenaphthylene-d8	12.36	160	1373747	28.88	ng/ul	0.02
49) 4-Nitrophenol-d4	13.00	143	285133	35.75	ng/ul	0.04
55) Fluorene-d10	13.76	176	961156	30.54	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.93	200	214069	20.75	ng/ul	0.01
68) Anthracene-d10	15.89	188	1407596	29.50	ng/ul	0.02
74) Pyrene-d10	18.75	212	1219962	38.27	ng/ul	0.03
85) Benzo(a)pyrene-d12	24.86	264	655994	28.00	ng/ul	0.05

Target Compounds						Qvalue
2) Benzaldehyde	5.95	77	5331	0.78	ng/ul#	84
4) Phenol	6.10	94	476090	28.79	ng/ul	94
8) 2-Chlorophenol	6.33	128	387632	26.46	ng/ul	95
12) Acetophenone	7.42	105	99632	4.93	ng/ul	93
13) N-Nitroso-di-n-propylamine	7.46	70	316269	30.67	ng/ul#	92
19) Isophorone	8.33	82	31828	1.04	ng/ul#	76
31) 4-Chloro-3-methylphenol	10.27	107	461913	34.43	ng/ul#	89
43) 2,6-Dinitrotoluene	12.27	165	4894	0.45	ng/ul#	85
47) Acenaphthene	12.75	153	930750	30.22	ng/ul	97
50) 4-Nitrophenol	13.01	109	313964	32.83	ng/ul	95
52) 2,4-Dinitrotoluene	13.12	165	455042	32.28	ng/ul#	81
53) 2,3,4,6-Tetrachlorophenol	13.38	232	9159	0.71	ng/ul#	77
56) Fluorene	13.82	166	28678	0.76	ng/ul#	78
58) 4-Nitroaniline	13.88	138	4222	0.64	ng/ul#	78
62) N-Nitrosodiphenylamine	14.09	169	25112	0.88	ng/ul#	93
66) Pentachlorophenol	15.39	266	388769	35.61	ng/ul	92
67) Phenanthrene	15.82	178	417715	8.21	ng/ul	98
69) Anthracene	15.92	178	95271	1.86	ng/ul	96
70) Carbazole	16.27	167	48470	1.05	ng/ul	99
71) Di-n-butylphthalate	17.06	149	179103	2.70	ng/ul	97
72) Fluoranthene	18.30	202	531730	8.81	ng/ul#	90
75) Pyrene	18.79	202	1944424	48.04	ng/ul#	93
78) Benzo(a)anthracene	21.29	228	292310	7.56	ng/ul	97
79) Bis(2-ethylhexyl)phthalate	21.40	149	57962	2.82	ng/ul#	98

Quantitation Report (QT Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041316.D
Acq On : 20 Oct 2008 9:03
Operator : QM
Sample : Z4920-09MS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 20 12:58:22 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Chrysene	21.37	228	277142m	8.44	ng/ul	
83) Benzo(b)fluoranthene	23.95	252	241375	8.59	ng/ul#	96
84) Benzo(k)fluoranthene	24.01	252	80251m	3.36	ng/ul	
86) Benzo(a)pyrene	24.94	252	141403	5.84	ng/ul#	86
87) Indeno(1,2,3-cd)pyrene	29.34	276	47813	2.11	ng/ul#	80
88) Dibenzo(a,h)anthracene	29.43	278	13871	0.80	ng/ul#	85
89) Benzo(g,h,i)perylene	30.61	276	37019	1.61	ng/ul#	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-3DMSD

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-10MSD

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041317.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.17 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
100-52-7	Benzaldehyde	220	U
108-95-2	Phenol	1200	
111-44-4	Bis(2-chloroethyl)ether	220	U
95-57-8	2-Chlorophenol	1100	
95-48-7	2-Methylphenol	220	U
108-60-1	2,2'-Oxybis(1-chloropropane)	220	U
98-86-2	Acetophenone	170	J
106-44-5	4-Methylphenol	220	U
621-64-7	N-Nitroso-di-n-propylamine	1200	
67-72-1	Hexachloroethane	220	U
98-95-3	Nitrobenzene	220	U
78-59-1	Isophorone	220	U
88-75-5	2-Nitrophenol	220	U
105-67-9	2,4-Dimethylphenol	220	U
111-91-1	Bis(2-chloroethoxy)methane	220	U
120-83-2	2,4-Dichlorophenol	220	U
91-20-3	Naphthalene	220	U
106-47-8	4-Chloroaniline	220	U
87-68-3	Hexachlorobutadiene	220	U
105-60-2	Caprolactam	220	U
59-50-7	4-Chloro-3-methylphenol	1300	
91-57-6	2-Methylnaphthalene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U
92-52-4	1,1'-Biphenyl	220	U
91-58-7	2-Chloronaphthalene	220	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	220	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	1100	
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	1100	

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5-3DMSD

Lab Name: Chemtech Consulting Group Contract: DEWB01

Lab Code: CHEM Case No.: Z4920 Mod. Ref No.: Z4920 SDG No.: Z4920

Matrix (SOIL/SED/WATER): SOIL Lab Sample ID: Z4920-10MSD

Sample wt/vol: 30.0 (g/mL) g Lab File ID: BA041317.D

Level: (LOW/MED) LOW Extraction: (Type) SOXH

% Moisture: 22.0 Decanted: (Y/N) N Date Received: 10/09/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 10/13/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 10/20/2008

GPC Cleanup: (Y/N) Y pH: 7.17 Dilution Factor: 1.0

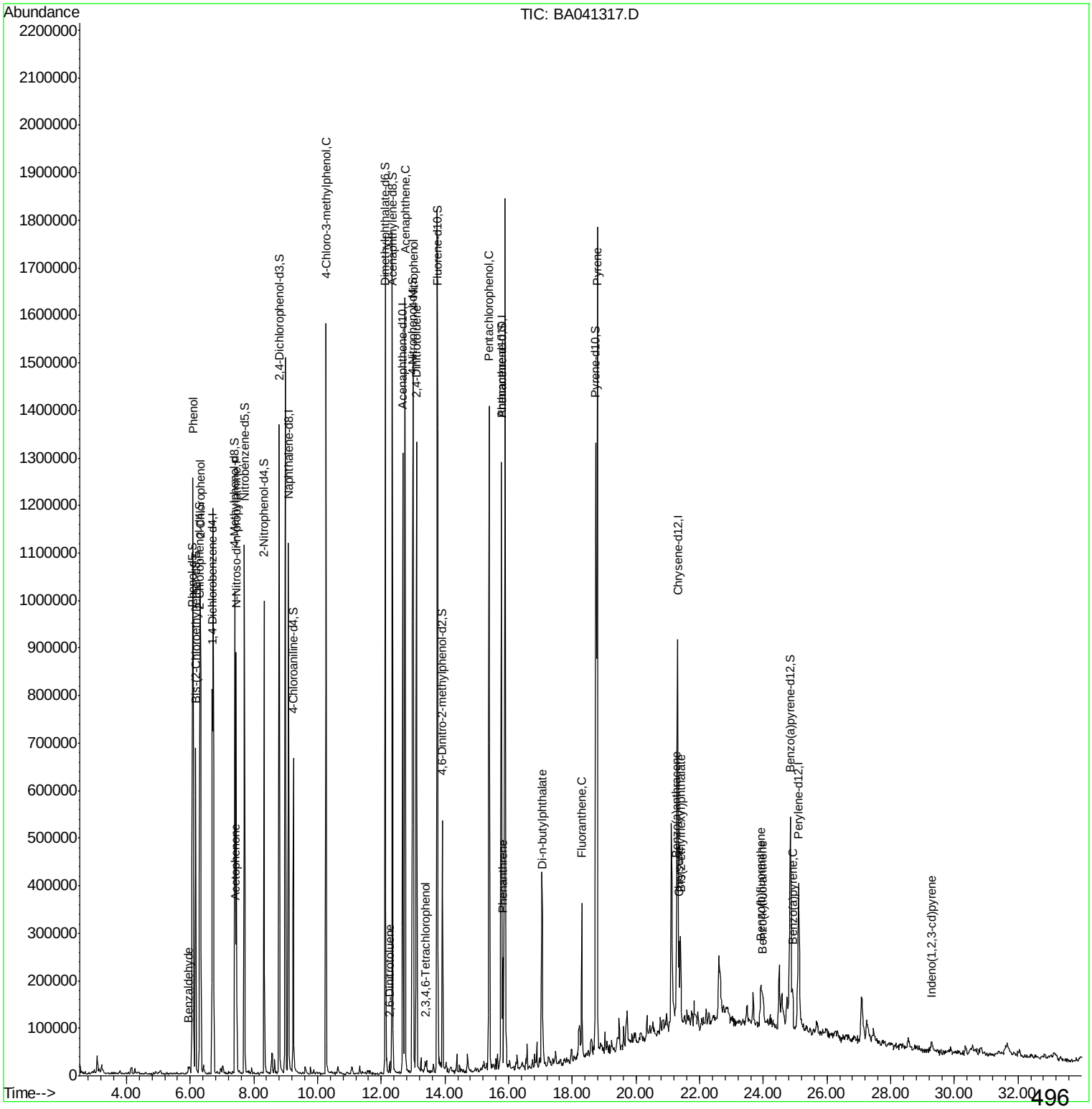
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
132-64-9	Dibenzofuran	220	U
121-14-2	2,4-Dinitrotoluene	1200	
84-66-2	Diethylphthalate	220	U
86-73-7	Fluorene	220	U
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine[1]	220	U
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U
101-55-3	4-Bromophenyl-phenylether	220	U
118-74-1	Hexachlorobenzene	220	U
1912-24-9	Atrazine	220	U
87-86-5	Pentachlorophenol	1200	
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	220	U
86-74-8	Carbazole	220	U
84-74-2	Di-n-butylphthalate	160	J
206-44-0	Fluoranthene	210	J
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	220	U
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	160	J
218-01-9	Chrysene	210	J
117-81-7	Bis(2-ethylhexyl)phthalate	220	B
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	200	J
207-08-9	Benzo(k)fluoranthene	79	J
50-32-8	Benzo(a)pyrene	140	J
193-39-5	Indeno(1,2,3-cd)pyrene	220	U
53-70-3	Dibenzo(a,h)anthracene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
58-90-2	2,3,4,6-Tetrachlorophenol	220	U

[1]Cannot be separated from Diphenylamine

Quantitation Report (QT Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041317.D
Acq On : 20 Oct 2008 9:44
Operator : QM
Sample : Z4920-10MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

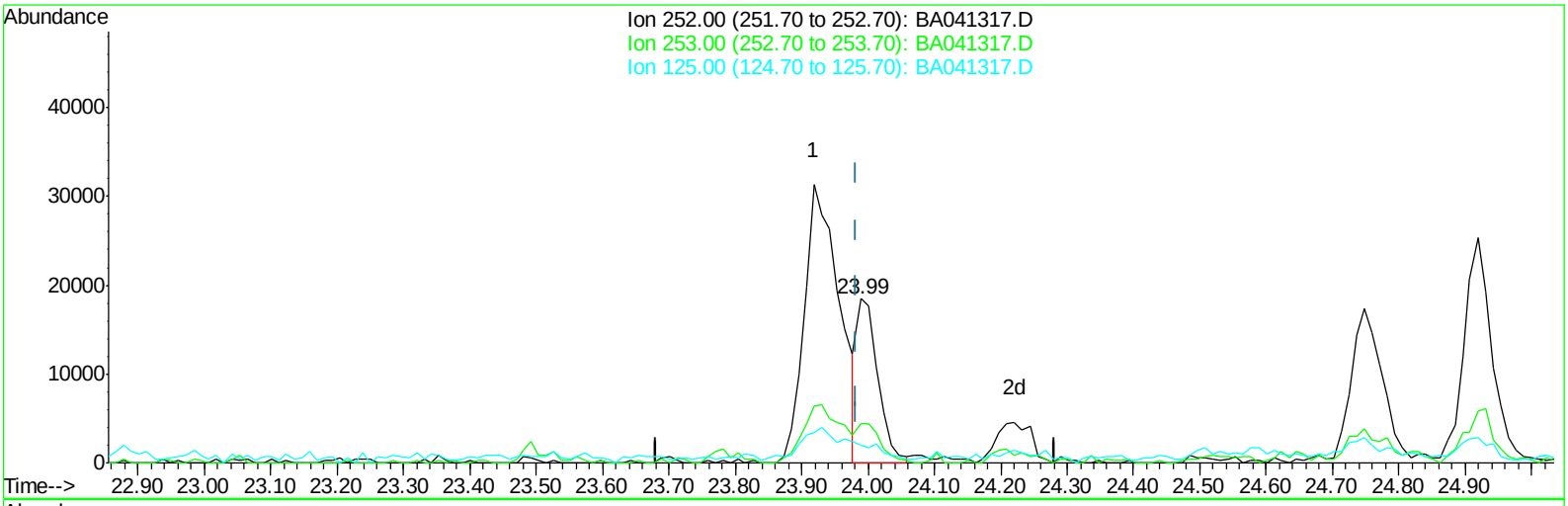
Quant Time: Oct 20 13:02:54 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

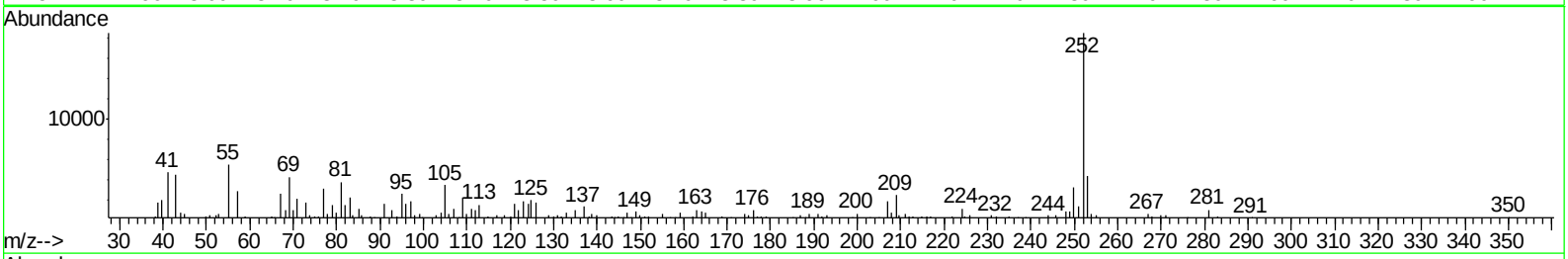


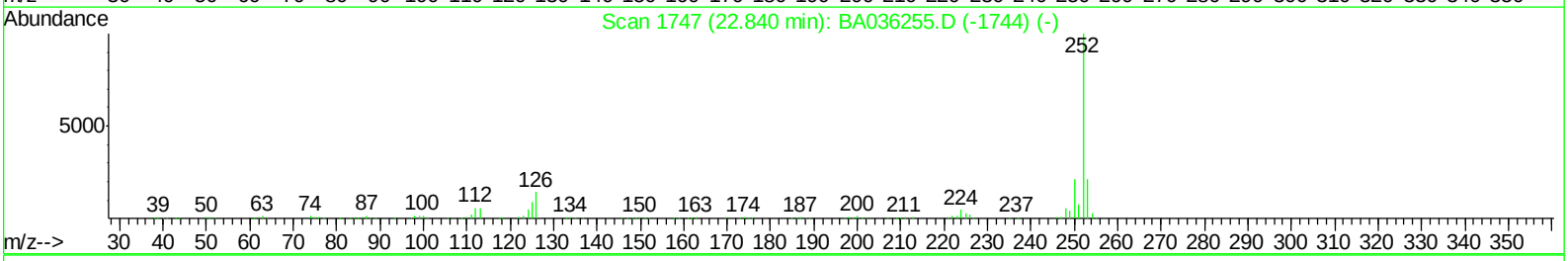
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041317.D
Acq On : 20 Oct 2008 9:44
Operator : QM
Sample : Z4920-10MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 20 12:59:04 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041317.D

(84) Benzo(k)fluoranthene

23.988min (+0.006) 1.85ng/ul m

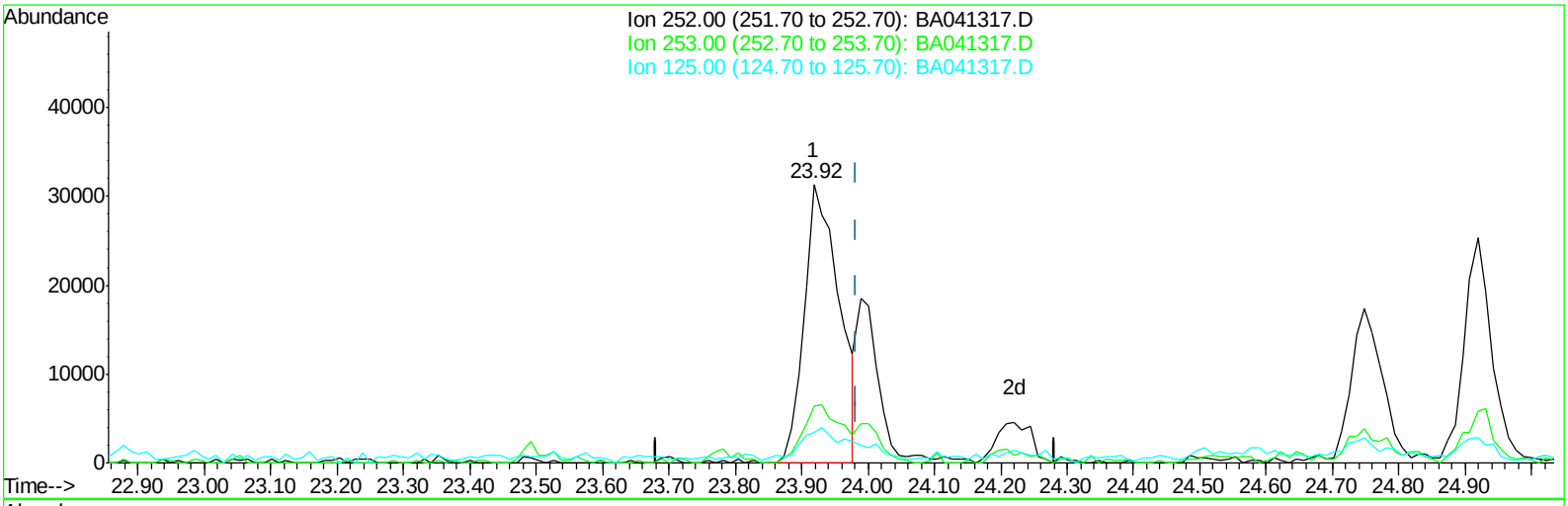
response 38975

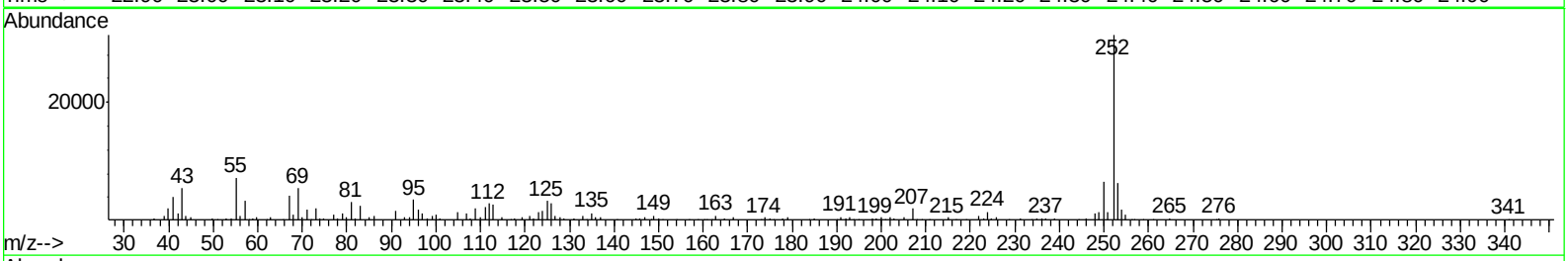
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	23.76
125.00	4.40	10.59#
0.00	0.00	0.00

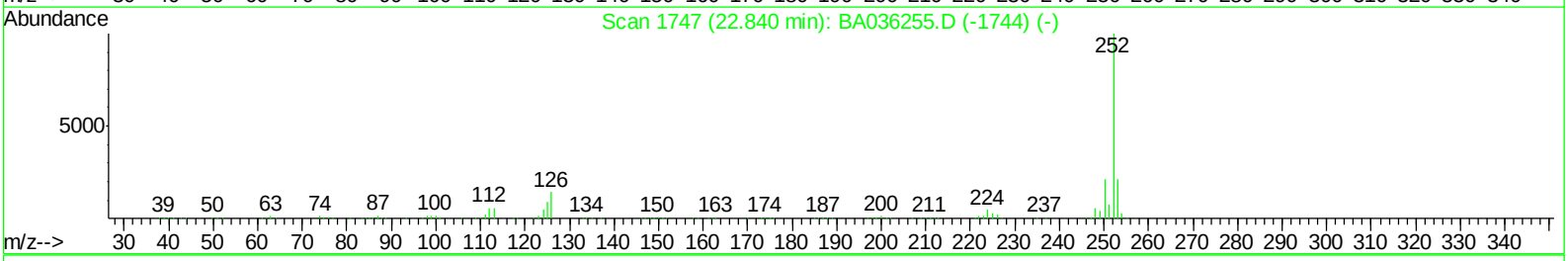
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_A\Data\BA101908\
Data File : BA041317.D
Acq On : 20 Oct 2008 9:44
Operator : QM
Sample : Z4920-10MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 20 12:59:04 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration







TIC: BA041317.D

(84) Benzo(k)fluoranthene

23.919min (-0.064) 5.44ng/ul

response 114370

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	20.35
125.00	4.40	10.80#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041317.D
Acq On : 20 Oct 2008 9:44
Operator : QM
Sample : Z4920-10MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 20 13:02:54 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	211476	20.00	ng/ul	0.02
16) Naphthalene-d8	9.09	136	676777	20.00	ng/ul	0.00
33) Acenaphthene-d10	12.68	164	524768	20.00	ng/ul	0.01
59) Phenanthrene-d10	15.77	188	862007	20.00	ng/ul	0.02
73) Chrysene-d12	21.31	240	606411	20.00	ng/ul	0.02
81) Perylene-d12	25.11	264	378174	20.00	ng/ul	0.04
System Monitoring Compounds						
3) Phenol-d5	6.07	99	339382	26.51	ng/ul	0.00
5) Bis-(2-Chloroethyl)ether-d	6.17	67	249264	28.71	ng/ul	0.02
7) 2-Chlorophenol-d4	6.30	132	298469	27.43	ng/ul	0.00
11) 4-Methylphenol-d8	7.40	113	212210	24.43	ng/ul	0.01
17) Nitrobenzene-d5	7.70	128	164872	27.52	ng/ul	0.01
20) 2-Nitrophenol-d4	8.33	143	211874	28.73	ng/ul	0.01
24) 2,4-Dichlorophenol-d3	8.80	165	419107	30.71	ng/ul	0.01
27) 4-Chloroaniline-d4	9.24	131	244749	18.13	ng/ul	0.02
41) Dimethylphthalate-d6	12.13	166	1050803	30.07	ng/ul	0.02
44) Acenaphthylene-d8	12.35	160	1227446	28.89	ng/ul	0.01
49) 4-Nitrophenol-d4	12.99	143	220452	30.95	ng/ul	0.03
55) Fluorene-d10	13.76	176	829905	29.53	ng/ul	0.02
60) 4,6-Dinitro-2-methylphenol	13.92	200	129513	14.52	ng/ul	0.00
68) Anthracene-d10	15.77	188	862007	20.89	ng/ul	-0.09
74) Pyrene-d10	18.74	212	975918	36.83	ng/ul	0.02
85) Benzo(a)pyrene-d12	24.85	264	558815	27.13	ng/ul	0.03
Target Compounds						Qvalue
2) Benzaldehyde	5.95	77	4011	0.70	ng/ul#	58
4) Phenol	6.09	94	375019	27.00	ng/ul	95
8) 2-Chlorophenol	6.32	128	323595	26.29	ng/ul	96
12) Acetophenone	7.42	105	66284	3.90	ng/ul	89
13) N-Nitroso-di-n-propylamine	7.45	70	253226	29.23	ng/ul	99
31) 4-Chloro-3-methylphenol	10.27	107	372220	31.17	ng/ul	89
43) 2,6-Dinitrotoluene	12.27	165	4400	0.46	ng/ul#	72
47) Acenaphthene	12.75	153	724596	26.34	ng/ul	96
50) 4-Nitrophenol	13.01	109	228588	26.76	ng/ul	97
52) 2,4-Dinitrotoluene	13.11	165	357467	28.40	ng/ul#	75
53) 2,3,4,6-Tetrachlorophenol	13.38	232	4549	0.39	ng/ul#	94
66) Pentachlorophenol	15.39	266	273971	29.02	ng/ul	92
67) Phenanthrene	15.82	178	149988	3.41	ng/ul	99
71) Di-n-butylphthalate	17.07	149	213768	3.73	ng/ul	98
72) Fluoranthene	18.29	202	255668	4.90	ng/ul#	92
75) Pyrene	18.79	202	1261893	37.50	ng/ul#	94
78) Benzo(a)anthracene	21.28	228	122931	3.82	ng/ul#	93
79) Bis(2-ethylhexyl)phthalate	21.40	149	88396	5.18	ng/ul#	91
80) Chrysene	21.36	228	133710	4.90	ng/ul#	94
83) Benzo(b)fluoranthene	23.92	252	114370	4.63	ng/ul#	96
84) Benzo(k)fluoranthene	23.99	252	38975m	1.85	ng/ul	
86) Benzo(a)pyrene	24.92	252	70947	3.33	ng/ul#	89
87) Indeno(1,2,3-cd)pyrene	29.28	276	23705	1.19	ng/ul#	73

Quantitation Report (QT Reviewed)

Data Path : U:\HPCHEM1\BNA_A\DATA\BA101908\
Data File : BA041317.D
Acq On : 20 Oct 2008 9:44
Operator : QM
Sample : Z4920-10MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 20 13:02:54 2008
Quant Method : Z:\HPCHEM1\BNA_A\METHOD\SOM01.2-BA101908.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 20 11:13:32 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

CHEMTECH

SEMI-VOLATILE MISCELLANEOUSDATA

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

Order ID:	Z4920	**Order Date:**	10/9/2008
Client :	Dewberry	**Project:**	Connecticut Superfund Site
Contact :	Corey Nachshen	**Location :**	I51

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Z4920-01	**RB-1**	**WATER**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/19/08	
Z4920-03	**AOC2-1**	**SOIL**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4920-04	**AOC2-2**	**SOIL**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4920-05	**AOC2-3**	**SOIL**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4920-06	**AOC5-1**	**SOIL**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4920-07	**AOC5-2**	**SOIL**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4920-08	**AOC5-3**	**SOIL**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4920-11	**DUP**	**SOIL**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4920-12	**AOC3-1A**	**SOIL**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	
Z4920-13	**AOC3-1B**	**SOIL**			**10/07/08**			**10/09/08**
			SVOCMS Group1	SOM01.2		10/13/08	10/20/08	

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Z4920 MATRIX: Water/soil

METHOD: SOM01.2

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓

5. GC/MS Calibration Requirements.
   a. Calibration Check Compounds for 8270 and CLP.
   b. System Performance Check Compounds for 8270 and CLP

8270 CALIBRATION CRITERIA

SPCC Compounds	MINRF	CCC Compounds Base/Neutral Fraction	CCC Compounds Acid Fraction
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%
For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank: ✓

The Blank analysis indicated presence of 4-Chloro-3-methylphenol (43ug/Kg) in file PB37183B due to possible lab contamination.

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for RB-1, SBLK01, SBLK02RE, SBLK03, SBLK03RE, AOC3-1B, AOC2-3, AOC5-3 and AOC5-1.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: The Calibration File ID BA041319.D met the requirements except for 2,4-Dinitrophenol. The Calibration File ID BA041323.D met the requirements except for 4-Nitroaniline. The Initial Calibration dated 10/19/08 met the requirements except for Di-n-octylphthalate , Benzo(b)fluoranthene and Indeno(1,2,3-cd)pyrene .
The % RSD of Di-n-octylphthalate(28.7), Benzo(b)fluoranthene (23.4) and Indeno(1,2,3-cd)pyrene (25.5)
As per method, the %RSD for four compounds allowed failing. No further action required.

Q Kalpana Raythattha
I have reviewed this document
2008.10.31 13:11:51 -04'00'

CHEMTECH EXTRACTION LOGPAGE

SOP#: M 5OM01.2

Matrix : Water

Clean Up Method: N/A.

Review By:

Batch# PB37177

Extraction Date : 10/13/2008 12:00:00 AM

Extracted By : MBS/ZNR

Method of Extraction

- [ ] Seperatory Funnel
- [x] Continious Liquid/Liquid
- [ ] Sonication
- [ ] Waste Dilution
- [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	40 ppm.	OEP1878

10-16

Chemical Used	Lot Number
Methylene Chloride	ER1535
Sodium Sulfate	ER1498
H2SO4 1:1	X811

10-16

Extraction Conformance/Non-Conformance Comments:

KD Bath Temperature: 59 c

Received Date: 10/16/08

Delivered Date: 10/16/08

Envap Temperature: 40 c

Received By:

Delivered By:

Analysis Group: HM, HP, QM

Extraction Group : BE, BP, DM, DP, DR, DS, IG, JM, JR, MA, MGS, MS, RP, SA

CHEMTECH

EXTRACTION LOGPAGE

— Water —

Method: SOW01.2 Supervisor Review: Date: 10/16/08 PREP Batch #: PB37177

Extraction Date: 10/13/2008 Initials: MBS Concentration Date: 10/14/08 Initials: JR

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
Z4920-01	RB-1	SVOCMS Group1	980	2 6	RD/MBS	1	
Z4923-17	FB	SVOCMS Group1	980	2 6			
Z4923-18	FB	SVOCMS Group1	940	2 5			
Z4923-19	RB	SVOCMS Group1	920	2 6			
Z4932-02	FIELDBLANK	SVOCMS Group1	970	2 5			10/16/08
Z4932-03	RINSATEBLANK	SVOCMS Group1	930	2 6			
PB37177BL		SVOCMS Group1	1000	2 5			

10/13

>>>

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in analytical lab, must sign.

CHEMTECH EXTRACTION LOGPAGE PrepBatch ID PB37177

Method:_____ Supervisor Review:_____ Date:_____/_____/_____

Initials:_____ Concentration Date:_____/_____

Extraction Date:_ 10/13/2008 12:00:00 AM Initials:_____

Lab Sample ID	Client Sample ID	Test	Weight/ Volume mL	PH	Ver. Sur./Spik	Final Vol. (mL)	Comments
PB37177BL	PB37177BL	SVOCMS Group1	1000	5	RajeshParikh	1	
Z4920-01	RB-1	SVOCMS Group1	980	6	RajeshParikh	1	
Z4923-17	FB	SVOCMS Group1	980	6	RajeshParikh	1	
Z4923-18	FB	SVOCMS Group1	940	5	RajeshParikh	1	
Z4923-19	RB	SVOCMS Group1	920	6	RajeshParikh	1	
Z4932-02	FIELDBLANK	SVOCMS Group1	970	5	RajeshParikh	1	
Z4932-03	RINSATEBLANK	SVOCMS Group1	930	6	RajeshParikh	1	

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in analytical lab, must sign.

CHEMTECH EXTRACTION LOGPAGE

SOP#: M 5OM01.2

Matrix : Solid

Clean Up Method: GPC Cleanup.

Review By:

Batch# PB37183

Extraction Date : 10/13/2008 12:00:00 AM

Extracted By :

Method of Extraction

- [ ] Seperatory Funnel
- [ ] Continious Liquid/Liquid
- [ ] Sonication
- [ ] Waste Dilution
- [x] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Matrix Spike	1.0ML	40 ppm	OEP1879
Surrogate	1.0ML	40 ppm.	OEP1878 /OEP1795

10/16/08

Chemical Used	Lot Number
Methylene Chloride	ER1535
Acetone	ER1532
Sodium Sulfate	ER1498
Sand	ER1487

10/16/08

Extraction Conformance/Non-Conformance Comments:

KD Bath Temperature: 59 c

Received Date: 10/16/08

Delivered Date: 10/16/08

Envap Temperature: 40 c

Received By:

Delivered By:

Analysis Group: HM, HP, QM

Extraction Group : BE, BP, DM, DP, DR, DS, IG, JM, JR, MA, MGS, MS, RR, SA

CHEMTECH

— SVOC —

EXTRACTION LOGPAGE

Method: SOM01.2 Supervisor Review: Date: 10/16/08 PREP Batch #: pb37183

Extraction Date: 10/13/2008 Initials: MG Concentration Date: 10/15/08 Initials: MG

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST	Weight/ Volume mL	PH	Ver. Sur./Spike	Final Vol. (mL)	COMMENTS
pb37183BL		SVOCMS Group1	30.04	NA	MG	0.5	
Z4920-03	AOC2-1	SVOCMS Group1	30.06	6.97			
Z4920-04	AOC2-2	SVOCMS Group1	30.03	6.89			
Z4920-05	AOC2-3	SVOCMS Group1	30.07	7.23			
Z4920-06	AOC5-1	SVOCMS Group1	30.01	7.51			
Z4920-07	AOC5-2	SVOCMS Group1	30.04	7.11			
Z4920-08	AOC5-3	SVOCMS Group1	30.08	7.17			
Z4920-09	Z4920-08MS	SVOCMS Group1	30.03	7.16			
Z4920-10	Z4920-08MSD	SVOCMS Group1	30.04	7.17			
Z4920-11	DUP	SVOCMS Group1	30.05	7.36			
Z4920-12	AOC3-1A	SVOCMS Group1	30.02	7.30			
Z4920-13	AOC3-1B	SVOCMS Group1	30.13	6.98			

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in analytical lab, must sign.

CHEMTECH EXTRACTION LOGPAGE **PrepBatch ID** **PB37183**

Method:_____ **Supervisor Review:**_____ **Date:**____/____/____

Initials:_____ **Concentration Date:**____/____

Extraction Date:_ 10/13/2008 12:00:00 AM **Initials:**_____

Lab Sample ID	Client Sample ID	Test	Weight/ Volume mL	PH	Ver. Sur./Solk	Final Vol. (mL)	Comments
PB37183BL	PB37183BL	SVOCMS Group1	30.04	N/A	Max	0.5	
Z4920-03	AOC2-1	SVOCMS Group1	30.06	6.97	Max	0.5	
Z4920-04	AOC2-2	SVOCMS Group1	30.03	6.89	Max	0.5	
Z4920-05	AOC2-3	SVOCMS Group1	30.07	7.23	Max	0.5	
Z4920-06	AOC5-1	SVOCMS Group1	30.01	7.51	Max	0.5	
Z4920-07	AOC5-2	SVOCMS Group1	30.04	7.11	Max	0.5	
Z4920-08	AOC5-3	SVOCMS Group1	30.08	7.17	Max	0.5	
Z4920-09	Z4920-08MS	SVOCMS Group1	30.03	7.16	Max	0.5	
Z4920-10	Z4920-08MSD	SVOCMS Group1	30.04	7.17	Max	0.5	
Z4920-11	DUP	SVOCMS Group1	30.05	7.36	Max	0.5	
Z4920-12	AOC3-1A	SVOCMS Group1	30.02	7.30	Max	0.5	
Z4920-13	AOC3-1B	SVOCMS Group1	30.13	6.98	Max	0.5	

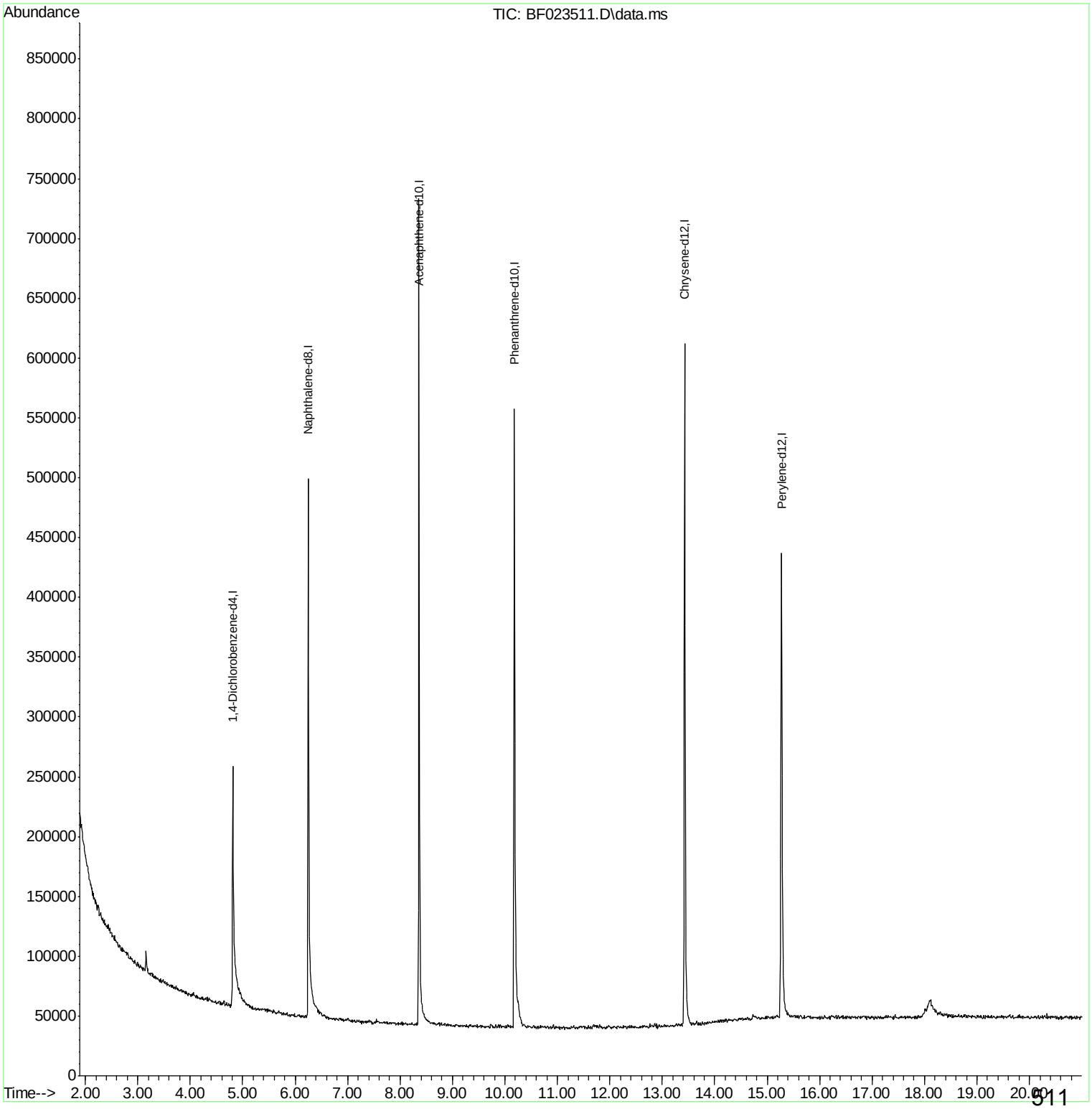
10/16/08

* Extracts relinguished on the same date as received. Both person who concentrated and delivered the extracts and person accepting the extracts in analytical lab, must sign.

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\Data\BF101208\
Data File : BF023511.D
Acq On : 12 Oct 2008 17:13
Operator : QM
Sample : Z4848-05
Misc : GPC BLK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 13 14:44:41 2008
Quant Method : Z:\HPCHEM1\BNA_F\METHOD\8270-BF100708.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Oct 12 19:37:42 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

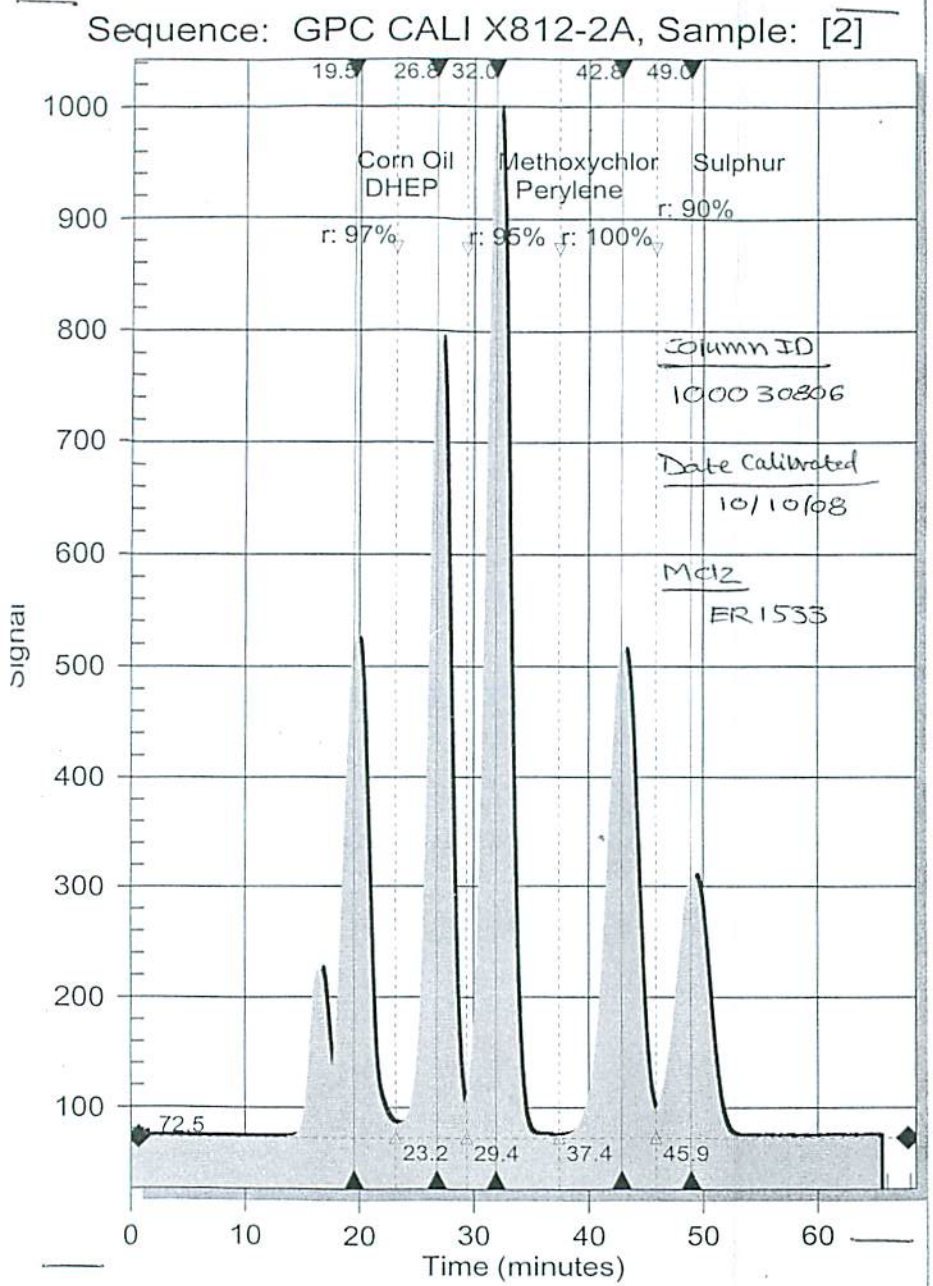
Data Path : Z:\HPCHEM1\BNA_F\Data\BF101208\
Data File : BF023511.D
Acq On : 12 Oct 2008 17:13
Operator : QM
Sample : Z4848-05
Misc : GPC BLK
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 13 14:44:41 2008
Quant Method : Z:\HPCHEM1\BNA_F\METHOD\8270-BF100708.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Oct 12 19:37:42 2008
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.810	152	71793	20.00 ng	0.00
22) Naphthalene-d8	6.251	136	357335	20.00 ng	0.00
39) Acenaphthene-d10	8.363	164	179262	20.00 ng	0.00
63) Phenanthrene-d10	10.180	188	298893	20.00 ng	0.00
75) Chrysene-d12	13.427	240	289589	20.00 ng	0.00
86) Perylene-d12	15.274	264	258557	20.00 ng	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.516	112	21	0.00 ng	0.03
6) Phenol-d5	4.434	99	37	0.01 ng	0.00
11) 2-Chlorophenol-d4	4.569	132	12	0.00 ng	0.00
14) 1,2-Dichlorobenzene-d4	0.000	152	0d	0.00 ng	
24) Nitrobenzene-d5	5.440	82	126	0.02 ng	0.00
42) 2,4,6-Tribromophenol	9.345	330	8	0.01 ng	0.00
45) 2-Fluorobiphenyl	7.563	172	129	0.01 ng	0.00
78) Terphenyl-d14	12.174	244	709	0.06 ng	0.01

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed



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513

Daily Analysis Runlog

J2 SCIENTIFIC ACCUPREP GPC System

Start Date: 10/9/08 End Date: 10/14/08 Analyst DP Review By: [illegible]

STD. Name	STD REF. #:	Check Standard	Data File and Date	Reagent
GPC Calibration	X816	BNA Blank Check		Methylene Chloride
Pest Check Std	GCP 7276 2ml	Pesticide Blank Check		Reagent Reference #
PCB Check Std	GCP 7704 1ml	Pesticide Check		ER 1533
CALIB. DATE:	10/7/08	PCB Check		[illegible]

	Port #	Sample ID	Volume Collected	Extraction Date	BNA	PEST	Comments
	1	column cleaned					PM
	2	GPC cal X816-2	–	–	–	–	UV Trace Analysis
	1	column cleaned					PM
	2	column cleaned					
	3	Pcb SPK	90	10/10/08		✓	Z4848
	4	Pest blank				✓	
	5	Pcb SPK				✓	
	6	Pest blank				✓	
	7	GPC blank	120		✓		
	1	Z4923-01	120	10/13/08	✓		Z4923
	2	-02			✓		(SVOC) 10/14/08
	3	-03			✓		
	4	-04			✓		
	5	-05			✓		
	6	-06			✓		
	7	-07			✓		
	8	-08			✓		
	9	-09			✓		
	10	-10			✓		
	11	-11			✓		

Doc Control # A3040662

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Daily Maintenance Runlog For J2 SCIENTIFIC ACCUPREP GPC System

	Analyst Initial	Performed
1.		None
2.		
3		
4		
5		

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Daily Analysis Runlog
J2 SCIENTIFIC ACCUPREP GPC System

Start Date: 10/8/08 End Date: 10/14/08 Analyst DP Review By: [illegible]

STD. Name	STD REF. #:	Check Standard	Data File and Date	Reagent
GPC Calibration	X816	BNA Blank Check		Methylene Chloride
Pest Check Std	GCP 7276 ZW	Pesticide Blank Check		Reagent Reference #
PCB Check Std	GCP 7704 LM	Pesticide Check		ER 1533
CALIB. DATE:	10/7/08	PCB Check		[illegible]

	Port #	Sample ID	Volume Collected	Extraction Date	BNA	PEST	Comments
	12	24923-12	120	10/13/08	✓		24923
	13	-13			✓		(SVOC) 10/14/08
	14	-14			✓		
	15	-15			✓		
	16	-16			✓		
	17	24923.01 MS			✓		
	18	24923.01 MSD			✓		
	19	PB37182BL			✓	[illegible]	
	1	GPC cleanup	—	—	—	—	—
	2	24920-03	120	10/13/08	✓		24920
	3	-04			✓		(SVOC)
	4	-05			✓		
	5	-06			✓		
	6	-07			✓		
	7	-08			✓		
	8	-09			✓		MS
	9	-10			✓		MSD
	10	-11			✓		
	11	-12			✓		
	12	24920 -13			✓	[illegible]	

Daily Maintenance Runlog For J2 SCIENTIFIC ACCUPREP GPC System

	Analyst Initial	Performed
1.		
2.		
3		
4		
5		10.14.08

Daily Analysis Runlog

J2 SCIENTIFIC ACCUPREP GPC System

Start Date: 10/8/08 End Date: 10/14/08 Analyst DP Review By: [illegible]

STD. Name	STD REF. #:	Check Standard	Data File and Date	Reagent
GPC Calibration	X816	BNA Blank Check		Methylene Chloride
Pest Check Std	GCP 7276 2ml	Pesticide Blank Check		Reagent Reference #
PCB Check Std	GCP 7704 1ml	Pesticide Check		ER 1533
CALIB. DATE:	10/7/08	PCB Check		[illegible]

	Port #	Sample ID	Volume Collected	Extraction Date	BNA	PEST	Comments
	1	GPC cleanup	—	—	—	—	pm.
	2	24920 -03	90	10/13/08		✓	24920 (Pest)
	3	-04				✓	
	4	-05				✓	
	5	-06				✓	
	6	-07				✓	
	7	-08				✓	
	8	-09				✓	MS
	9	-10				✓	MSD
	10	-11				✓	
	11	-12				✓	
	12	24920 -13				✓	
	13	PB3718013S				✓	
	14	PB3718013L				✓	
	15	GPC cleanup					pm.

10/15/

Daily Maintenance Runlog For J2 SCIENTIFIC ACCUPREP GPC System

	Analyst Initial	Performed
1.		
2.		
3		
4		
5		

Daily Analysis Runlog

J2 SCIENTIFIC ACCUPREP GPC System

Start Date: 10/9/08 End Date: 10/14/08 Analyst DP Review By: ____

STD. Name	STD REF. #:	Check Standard	Data File and Date	Reagent
GPC Calibration	X816	BNA Blank Check		Methylene Chloride
Pest Check Std	GCP 7276 2ml	Pesticide Blank Check		Reagent Reference #
PCB Check Std	GCP 7704 1ml	Pesticide Check		IER1533
CALIB. DATE:	10/7/08	PCB Check		

	Port #	Sample ID	Volume Collected	Extraction Date	BNA	PEST	Comments
	13	24923-01	90	10/13/08		✓	24923 (Pest)
	14	-02				✓	
	15	-03				✓	
	16	-04				✓	
	17	-05				✓	
	18	-06				✓	
	19	-07				✓	
	20	-08				✓	
	21	-09				✓	
	22	-10				✓	
	23	-11				✓	
	24	-12				✓	
	25	-13				✓	
	26	-14				✓	
	27	-15				✓	
	28	24923 -16				✓	
	29	24923-02 MS				✓	
	30	24923-03 MSD				✓	
	31	PB 3718135				✓	
	32	PB 3718136				✓	

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Manual Integration Report

Sequence	BA101908	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
ICC0020BA0048	BA041289.D	Caprolactam	himanshu	10/20/2008 1:31:50 PM	nimisha	10/22/2008 10:13:49 AM	Peak Integrated by Software incorrectly
ICC0020BA0048	BA041289.D	2,4,5-Trichlorophenol	himanshu	10/20/2008 1:31:50 PM	nimisha	10/22/2008 10:13:49 AM	Peak Integrated by Software incorrectly
Z4920-11	BA041314.D	Anthracene	himanshu	10/20/2008 1:32:53 PM	nimisha	10/22/2008 10:15:02 AM	Peak Integrated by Software incorrectly
Z4920-11	BA041314.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:53 PM	nimisha	10/22/2008 10:15:02 AM	Peak Integrated by Software incorrectly
Z4920-11	BA041314.D	Indeno(1,2,3-cd)pyrene	himanshu	10/20/2008 1:32:53 PM	nimisha	10/22/2008 10:15:02 AM	Peak Integrated by Software incorrectly
Z4920-06 5X	BA041315.D	Benzo(b) fluoranthene	himanshu	10/20/2008 1:32:57 PM	nimisha	10/22/2008 10:15:07 AM	Peak Integrated by Software incorrectly
Z4920-06 5X	BA041315.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:57 PM	nimisha	10/22/2008 10:15:07 AM	Peak Integrated by Software incorrectly
Z4920-09MS	BA041316.D	Chrysene	himanshu	10/20/2008 1:33:00 PM	nimisha	10/22/2008 10:15:11 AM	Peak Integrated by Software incorrectly
Z4920-09MS	BA041316.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:33:00 PM	nimisha	10/22/2008 10:15:11 AM	Peak Integrated by Software incorrectly
Z4920-10MSD	BA041317.D	Anthracene	himanshu	10/20/2008 1:33:02 PM	nimisha	10/22/2008 10:15:17 AM	Peak Integrated by Software incorrectly
Z4920-10MSD	BA041317.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:33:02 PM	nimisha	10/22/2008 10:15:17 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA101908	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
CCC0020BA0057	BA041319.D	Caprolactam	himanshu	10/20/2008 1:33:05 PM	nimisha	10/22/2008 10:15:22 AM	Peak Integrated by Software incorrectly
ICC0005BA0049	BA041290.D	2,4,5-Trichlorophenol	himanshu	10/20/2008 1:32:00 PM	nimisha	10/22/2008 10:13:54 AM	Peak Integrated by Software incorrectly
ICC0005BA0049	BA041290.D	Di-n-octyl phthalate	himanshu	10/20/2008 1:32:00 PM	nimisha	10/22/2008 10:13:54 AM	Peak Integrated by Software incorrectly
ICC0005BA0049	BA041290.D	Indeno(1,2,3-cd)pyrene	himanshu	10/20/2008 1:32:00 PM	nimisha	10/22/2008 10:13:54 AM	Peak Integrated by Software incorrectly
ICC0010BA0050	BA041291.D	Caprolactam	himanshu	10/20/2008 1:32:05 PM	nimisha	10/22/2008 10:13:58 AM	Peak Integrated by Software incorrectly
ICC0010BA0050	BA041291.D	2,4,5-Trichlorophenol	himanshu	10/20/2008 1:32:05 PM	nimisha	10/22/2008 10:13:58 AM	Peak Integrated by Software incorrectly
ICC0040BA0051	BA041292.D	4-Methylphenol-d8	himanshu	10/20/2008 1:32:08 PM	nimisha	10/22/2008 10:14:01 AM	Peak Integrated by Software incorrectly
ICC0040BA0051	BA041292.D	Caprolactam	himanshu	10/20/2008 1:32:08 PM	nimisha	10/22/2008 10:14:01 AM	Peak Integrated by Software incorrectly
ICC0080BA0052	BA041293.D	N-Nitroso-di-n-propylamine	himanshu	10/20/2008 1:32:11 PM	nimisha	10/22/2008 10:14:05 AM	Peak Integrated by Software incorrectly
ICC0080BA0052	BA041293.D	Caprolactam	himanshu	10/20/2008 1:32:11 PM	nimisha	10/22/2008 10:14:05 AM	Peak Integrated by Software incorrectly
ICC0080BA0052	BA041293.D	4-Nitroaniline	himanshu	10/20/2008 1:32:11 PM	nimisha	10/22/2008 10:14:05 AM	Peak Integrated by Software incorrectly
Z4920-01	BA041295.D	Anthracene-d10	himanshu	10/20/2008 1:32:16 PM	nimisha	10/22/2008 10:14:09 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA101908	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4923-17	BA041296.D	Anthracene-d10	himanshu	10/20/2008 1:32:19 PM	nimisha	10/22/2008 10:14:14 AM	Peak Integrated by Software incorrectly
Z4923-19	BA041298.D	Anthracene-d10	himanshu	10/20/2008 1:32:23 PM	nimisha	10/22/2008 10:15:32 AM	Peak Integrated by Software incorrectly
CCC0020BA0053	BA041302.D	Caprolactam	himanshu	10/20/2008 1:32:26 PM	nimisha	10/22/2008 10:14:19 AM	Peak Integrated by Software incorrectly
CCC0020BA0053	BA041302.D	Anthracene-d10	himanshu	10/20/2008 1:32:26 PM	nimisha	10/22/2008 10:14:19 AM	Peak Integrated by Software incorrectly
CCC0020BA0053	BA041302.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:26 PM	nimisha	10/22/2008 10:14:19 AM	Peak Integrated by Software incorrectly
CCC0020BA0055	BA041305.D	Caprolactam	himanshu	10/20/2008 1:33:14 PM	nimisha	10/22/2008 10:14:24 AM	Peak Integrated by Software incorrectly
Z4920-05	BA041308.D	Benzo(a) anthracene	himanshu	10/20/2008 1:32:31 PM	nimisha	10/22/2008 10:14:30 AM	Peak Integrated by Software incorrectly
Z4920-05	BA041308.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:31 PM	nimisha	10/22/2008 10:14:30 AM	Peak Integrated by Software incorrectly
Z4920-07	BA041309.D	Benzo(b) fluoranthene	himanshu	10/20/2008 1:32:35 PM	nimisha	10/22/2008 10:14:35 AM	Peak Integrated by Software incorrectly
Z4920-07	BA041309.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:35 PM	nimisha	10/22/2008 10:14:35 AM	Peak Integrated by Software incorrectly
Z4920-12	BA041310.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:38 PM	nimisha	10/22/2008 10:14:39 AM	Peak Integrated by Software incorrectly
Z4920-12	BA041310.D	Anthracene-d10	himanshu	10/20/2008 1:32:38 PM	nimisha	10/22/2008 10:14:39 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA101908	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4920-12	BA041310.D	Chrysene	himanshu	10/20/2008 1:32:38 PM	nimisha	10/22/2008 10:14:39 AM	Peak Integrated by Software incorrectly
Z4920-12	BA041310.D	Benzo(b) fluoranthene	himanshu	10/20/2008 1:32:38 PM	nimisha	10/22/2008 10:14:39 AM	Peak Integrated by Software incorrectly
Z4920-03	BA041311.D	Anthracene	himanshu	10/20/2008 1:32:41 PM	nimisha	10/22/2008 10:14:48 AM	Peak Integrated by Software incorrectly
Z4920-03	BA041311.D	Benzo(a) anthracene	himanshu	10/20/2008 1:32:41 PM	nimisha	10/22/2008 10:14:48 AM	Peak Integrated by Software incorrectly
Z4920-03	BA041311.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:41 PM	nimisha	10/22/2008 10:14:48 AM	Peak Integrated by Software incorrectly
Z4920-08	BA041312.D	Chrysene	himanshu	10/20/2008 1:32:45 PM	nimisha	10/22/2008 10:14:53 AM	Peak Integrated by Software incorrectly
Z4920-08	BA041312.D	Benzo(b) fluoranthene	himanshu	10/20/2008 1:32:45 PM	nimisha	10/22/2008 10:14:53 AM	Peak Integrated by Software incorrectly
Z4920-08	BA041312.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:45 PM	nimisha	10/22/2008 10:14:53 AM	Peak Integrated by Software incorrectly
Z4920-04	BA041313.D	Anthracene	himanshu	10/20/2008 1:32:49 PM	nimisha	10/22/2008 10:14:58 AM	Peak Integrated by Software incorrectly
Z4920-04	BA041313.D	Benzo(k) fluoranthene	himanshu	10/20/2008 1:32:49 PM	nimisha	10/22/2008 10:14:58 AM	Peak Integrated by Software incorrectly
Z4920-04	BA041313.D	Anthracene-d10	himanshu	10/20/2008 1:32:49 PM	nimisha	10/22/2008 10:14:58 AM	Peak Integrated by Software incorrectly

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	himanshu	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	OEP1889	Initial Calibration Stds	OEP1884-OEP1888
CCC	OEP1886	SubDirectory	BA101908
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOM01.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
1	DFTPPBA0013	BA041288.D	19 Oct 2008 13:20	QM	Ok
2	ICC0020BA0048	BA041289.D	19 Oct 2008 14:01	QM	Ok,M
3	ICC0005BA0049	BA041290.D	19 Oct 2008 15:12	QM	Ok,M
4	ICC0010BA0050	BA041291.D	19 Oct 2008 15:53	QM	Ok,M
5	ICC0040BA0051	BA041292.D	19 Oct 2008 16:35	QM	Ok,M
6	ICC0080BA0052	BA041293.D	19 Oct 2008 17:16	QM	Ok,M
7	PB37177B	BA041294.D	19 Oct 2008 17:57	QM	ReRun
8	Z4920-01	BA041295.D	19 Oct 2008 18:39	QM	Ok,M
9	Z4923-17	BA041296.D	19 Oct 2008 19:20	QM	Ok,M
10	Z4923-18	BA041297.D	19 Oct 2008 20:02	QM	Ok
11	Z4923-19	BA041298.D	19 Oct 2008 20:43	QM	Ok,M
12	Z4932-02	BA041299.D	19 Oct 2008 21:24	QM	Ok
13	Z4932-03	BA041300.D	19 Oct 2008 22:05	QM	Ok
14	PB37177B	BA041301.D	19 Oct 2008 22:46	QM	Confirms
15	CCC0020BA0053	BA041302.D	19 Oct 2008 23:28	QM	Ok,M
16	CCC0020BA0054	BA041303.D	20 Oct 2008 00:09	QM	Ok
17	DFTPPBA0014	BA041304.D	20 Oct 2008 00:51	QM	Ok
18	CCC0020BA0055	BA041305.D	20 Oct 2008 1:32	QM	Ok,M
19	PB37183B	BA041306.D	20 Oct 2008 2:13	QM	ReRun
20	Z4920-13	BA041307.D	20 Oct 2008 2:55	QM	Ok
21	Z4920-05	BA041308.D	20 Oct 2008 3:36	QM	Ok,M

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	himanshu	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	OEP1889	Initial Calibration Stds	OEP1884-OEP1888
CCC	OEP1886	SubDirectory	BA101908
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOM01.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
22	Z4920-07	BA041309.D	20 Oct 2008 4:17	QM	Ok,M
23	Z4920-12	BA041310.D	20 Oct 2008 4:58	QM	Ok,M
24	Z4920-03	BA041311.D	20 Oct 2008 5:39	QM	Ok,M
25	Z4920-08	BA041312.D	20 Oct 2008 6:20	QM	Ok,M
26	Z4920-04	BA041313.D	20 Oct 2008 7:01	QM	Ok,M
27	Z4920-11	BA041314.D	20 Oct 2008 7:41	QM	Ok,M
28	Z4920-06 5X	BA041315.D	20 Oct 2008 8:22	QM	ReRun
29	Z4920-09MS	BA041316.D	20 Oct 2008 9:03	QM	Ok,M
30	Z4920-10MSD	BA041317.D	20 Oct 2008 9:44	QM	Ok,M
31	CCC0020BA0056	BA041318.D	20 Oct 2008 10:26	QM	Not Ok
32	CCC0020BA0057	BA041319.D	20 Oct 2008 11:07	QM	Ok,M

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	himanshu	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	OEP1889	Initial Calibration Stds	OEP1884-OEP1888
CCC	OEP1886	SubDirectory	BA101908
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOM01.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
1	DFTPPBA0013	BA041288.D		Ok
2	ICC0020BA0048	BA041289.D		Ok,M
3	ICC0005BA0049	BA041290.D		Ok,M
4	ICC0010BA0050	BA041291.D		Ok,M
5	ICC0040BA0051	BA041292.D		Ok,M
6	ICC0080BA0052	BA041293.D		Ok,M
7	PB37177B	BA041294.D		ReRun
8	Z4920-01	BA041295.D		Ok,M
9	Z4923-17	BA041296.D		Ok,M
10	Z4923-18	BA041297.D		Ok
11	Z4923-19	BA041298.D		Ok,M
12	Z4932-02	BA041299.D		Ok
13	Z4932-03	BA041300.D		Ok
14	PB37177B	BA041301.D		Confirms
15	CCC0020BA0053	BA041302.D		Ok,M
16	CCC0020BA0054	BA041303.D	ZZZZZ	Ok
17	DFTPPBA0014	BA041304.D		Ok
18	CCC0020BA0055	BA041305.D		Ok,M
19	PB37183B	BA041306.D		ReRun
20	Z4920-13	BA041307.D		Ok
21	Z4920-05	BA041308.D		Ok,M

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	himanshu	Review On	10/20/2008 12:00:00 AM
Tune/Reschk	OEP1889	Initial Calibration Stds	OEP1884-OEP1888
CCC	OEP1886	SubDirectory	BA101908
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOM01.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
22	Z4920-07	BA041309.D		Ok,M
23	Z4920-12	BA041310.D		Ok,M
24	Z4920-03	BA041311.D		Ok,M
25	Z4920-08	BA041312.D		Ok,M
26	Z4920-04	BA041313.D		Ok,M
27	Z4920-11	BA041314.D		Ok,M
28	Z4920-06 5X	BA041315.D		ReRun
29	Z4920-09MS	BA041316.D		Ok,M
30	Z4920-10MSD	BA041317.D		Ok,M
31	CCC0020BA0056	BA041318.D		Not Ok
32	CCC0020BA0057	BA041319.D	Compound#48 %Dev=51.2	Ok,M

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Manual Integration Report

Sequence	BA102008	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4923-10	BA041346.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 8:54:32 AM	nimisha	10/21/2008 4:19:06 PM	Peak Integrated by Software incorrectly
Z4923-10	BA041346.D	Anthracene	yogesh patel	10/21/2008 8:54:32 AM	nimisha	10/21/2008 4:19:06 PM	Peak Integrated by Software incorrectly
Z4923-10	BA041346.D	Benzo(a) anthracene	yogesh patel	10/21/2008 8:54:32 AM	nimisha	10/21/2008 4:19:06 PM	Peak Integrated by Software incorrectly
Z4923-10	BA041346.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 8:54:32 AM	nimisha	10/21/2008 4:19:06 PM	Peak Integrated by Software incorrectly
Z4923-01	BA041347.D	Anthracene-d10	yogesh patel	10/21/2008 8:54:34 AM	nimisha	10/21/2008 4:19:12 PM	Peak Integrated by Software incorrectly
Z4923-01	BA041347.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 8:54:34 AM	nimisha	10/21/2008 4:19:12 PM	Peak Integrated by Software incorrectly
Z4923-01	BA041347.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 8:54:34 AM	nimisha	10/21/2008 4:19:12 PM	Peak Integrated by Software incorrectly
Z4923-09	BA041348.D	Benzo(k) fluoranthene	himanshu	10/21/2008 1:13:03 PM	nimisha	10/21/2008 4:19:16 PM	Peak Integrated by Software incorrectly
Z4923-05	BA041349.D	Chrysene	himanshu	10/21/2008 1:13:06 PM	nimisha	10/21/2008 4:19:21 PM	Peak Integrated by Software incorrectly
Z4923-05	BA041349.D	Benzo(k) fluoranthene	himanshu	10/21/2008 1:13:06 PM	nimisha	10/21/2008 4:19:21 PM	Peak Integrated by Software incorrectly
Z4923-01MS	BA041350.D	Chrysene	himanshu	10/21/2008 1:13:09 PM	nimisha	10/21/2008 4:19:25 PM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA102008	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4923-01MS	BA041350.D	Benzo(k) fluoranthene	himanshu	10/21/2008 1:13:09 PM	nimisha	10/21/2008 4:19:25 PM	Peak Integrated by Software incorrectly
Z4923-01MSD	BA041351.D	Benzo(a) anthracene	himanshu	10/21/2008 1:13:12 PM	nimisha	10/21/2008 4:19:30 PM	Peak Integrated by Software incorrectly
Z4923-01MSD	BA041351.D	Benzo(b) fluoranthene	himanshu	10/21/2008 1:13:12 PM	nimisha	10/21/2008 4:19:30 PM	Peak Integrated by Software incorrectly
Z4923-01MSD	BA041351.D	Benzo(k) fluoranthene	himanshu	10/21/2008 1:13:12 PM	nimisha	10/21/2008 4:19:30 PM	Peak Integrated by Software incorrectly
CCC0020BA0058	BA041323.D	Caprolactam	yogesh patel	10/21/2008 7:25:16 AM	nimisha	10/21/2008 4:16:54 PM	Peak Integrated by Software incorrectly
CCC0020BA0058	BA041323.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:16 AM	nimisha	10/21/2008 4:16:54 PM	Peak Integrated by Software incorrectly
PB37182B	BA041324.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:19 AM	nimisha	10/21/2008 4:17:21 PM	Peak Integrated by Software incorrectly
Z4920-06 5X	BA041326.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 7:25:22 AM	nimisha	10/21/2008 4:17:25 PM	Peak Integrated by Software incorrectly
Z4920-06 5X	BA041326.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 7:25:22 AM	nimisha	10/21/2008 4:17:25 PM	Peak Integrated by Software incorrectly
Z4973-05	BA041334.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:25 AM	nimisha	10/21/2008 4:18:02 PM	Peak Integrated by Software incorrectly
CCC0020BA0059	BA041337.D	Caprolactam	yogesh patel	10/21/2008 7:25:27 AM	nimisha	10/21/2008 4:18:07 PM	Peak Integrated by Software incorrectly
CCC0020BA0059	BA041337.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:27 AM	nimisha	10/21/2008 4:18:07 PM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA102008	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
CCC0020BA0060	BA041338.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:54 AM	nimisha	10/21/2008 4:18:15 PM	Peak Integrated by Software incorrectly
CCC0020BA0060	BA041338.D	Caprolactam	yogesh patel	10/21/2008 7:25:54 AM	nimisha	10/21/2008 4:18:15 PM	Peak Integrated by Software incorrectly
CCC0020BA0060	BA041338.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:54 AM	nimisha	10/21/2008 4:18:15 PM	Peak Integrated by Software incorrectly
CCC0020BA0060	BA041338.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 7:25:54 AM	nimisha	10/21/2008 4:18:15 PM	Peak Integrated by Software incorrectly
CCC0020BA0061	BA041340.D	Caprolactam	yogesh patel	10/21/2008 7:25:30 AM	nimisha	10/21/2008 4:18:23 PM	Peak Integrated by Software incorrectly
CCC0020BA0061	BA041340.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:30 AM	nimisha	10/21/2008 4:18:23 PM	Peak Integrated by Software incorrectly
CCC0020BA0061	BA041340.D	Dibenzo (a,h) anthracene	yogesh patel	10/21/2008 7:25:30 AM	nimisha	10/21/2008 4:18:23 PM	Peak Integrated by Software incorrectly
Z4923-06	BA041341.D	Benzo(a) anthracene	yogesh patel	10/21/2008 7:25:45 AM	nimisha	10/21/2008 4:18:43 PM	Peak Integrated by Software incorrectly
Z4923-02	BA041342.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:43 AM	nimisha	10/21/2008 4:18:48 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Dibenzo (a,h) anthracene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sequence	BA102008	Instrument	BNA_a

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Z4923-11	BA041344.D	Anthracene-d10	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Anthracene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-11	BA041344.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 7:25:40 AM	nimisha	10/21/2008 4:18:56 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Indeno (1,2,3-cd) pyrene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Benzo(a) anthracene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Benzo(b) fluoranthene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Benzo(k) fluoranthene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Benzaldehyde	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Phenanthrene	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly
Z4923-13	BA041345.D	Anthracene-d10	yogesh patel	10/21/2008 8:54:30 AM	nimisha	10/21/2008 4:19:01 PM	Peak Integrated by Software incorrectly

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	nimisha	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	OEP1844	Initial Calibration Stds	OEP1861-OEP1868
CCC	OEP1865	SubDirectory	BA102008
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOMO1.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
1	DFTPPBA0015	BA041320.D	20 Oct 2008 13:24	HNP	Not Ok

2	DFTPPBA0016	BA041321.D	20 Oct 2008 14:03	HNP	Not Ok
3	DFTPPBA0017	BA041322.D	20 Oct 2008 14:37	HNP	Ok
4	CCC0020BA0058	BA041323.D	20 Oct 2008 15:18	HNP	Ok,M
5	PB37182B	BA041324.D	20 Oct 2008 16:00	HNP	ReRun
6	PB37183BRE	BA041325.D	20 Oct 2008 16:42	HNP	Confirms
7	Z4920-06 5X	BA041326.D	20 Oct 2008 17:23	HNP	Ok,M
8	Z4923-04	BA041327.D	20 Oct 2008 18:04	HNP	Ok
9	Z4923-07	BA041328.D	20 Oct 2008 18:46	HNP	Ok
10	Z4923-08	BA041329.D	20 Oct 2008 19:28	HNP	Ok
11	Z4923-12	BA041330.D	20 Oct 2008 20:09	HNP	Ok
12	Z4923-14	BA041331.D	20 Oct 2008 20:51	HNP	Ok
13	Z4923-15	BA041332.D	20 Oct 2008 21:33	HNP	Ok
14	Z4923-16	BA041333.D	20 Oct 2008 22:14	HNP	Ok
15	Z4973-05	BA041334.D	20 Oct 2008 22:56	HNP	Ok,M
16	CLEAN UP	BA041335.D	20 Oct 2008 23:37	HNP	Ok
17	CLEAN UP	BA041336.D	21 Oct 2008 00:19	HNP	Ok
18	CCC0020BA0059	BA041337.D	21 Oct 2008 1:01	HNP	Ok,M
19	CCC0020BA0060	BA041338.D	21 Oct 2008 1:42	HNP	Ok,M
20	DFTPPBA0016	BA041339.D	21 Oct 2008 2:23	HNP	Ok
21	CCC0020BA0061	BA041340.D	21 Oct 2008 3:04	HNP	Ok,M

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	nimisha	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	OEP1844	Initial Calibration Stds	OEP1861-OEP1868
CCC	OEP1865	SubDirectory	BA102008
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOMO1.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Date-Time	Operator	Status
22	Z4923-06	BA041341.D	21 Oct 2008 3:46	HNP	Ok,M
23	Z4923-02	BA041342.D	21 Oct 2008 4:27	HNP	Ok,M
24	Z4923-03	BA041343.D	21 Oct 2008 5:09	HNP	Ok
25	Z4923-11	BA041344.D	21 Oct 2008 5:50	HNP	Ok,M
26	Z4923-13	BA041345.D	21 Oct 2008 6:31	HNP	Ok,M
27	Z4923-10	BA041346.D	21 Oct 2008 7:12	HNP	Ok,M
28	Z4923-01	BA041347.D	21 Oct 2008 7:53	HNP	Ok,M
29	Z4923-09	BA041348.D	21 Oct 2008 8:35	HNP	Ok,M
30	Z4923-05	BA041349.D	21 Oct 2008 9:16	HNP	Ok,M
31	Z4923-01MS	BA041350.D	21 Oct 2008 9:58	HNP	Ok,M
32	Z4923-01MSD	BA041351.D	21 Oct 2008 10:39	HNP	Ok,M
33	CLEAN UP	BA041352.D	21 Oct 2008 11:20	HNP	Ok
34	CLEAN UP	BA041353.D	21 Oct 2008 12:01	HNP	Ok
35	CCC0020BA0062	BA041354.D	21 Oct 2008 12:43	HNP	Ok

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	nimisha	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	OEP1844	Initial Calibration Stds	OEP1861-OEP1868
CCC	OEP1865	SubDirectory	BA102008
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOMO1.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
1	DFTPPBA0015	BA041320.D		Not Ok
2	DFTPPBA0016	BA041321.D		Not Ok
3	DFTPPBA0017	BA041322.D		Ok
4	CCC0020BA0058	BA041323.D	Compound#58 %Dev=-44.9	Ok,M
5	PB37182B	BA041324.D	Surrogate #74 fail	ReRun
6	PB37183BRE	BA041325.D	Surrogate #74 fail	Confirms
7	Z4920-06 5X	BA041326.D	Surrogate #11,44,55,74 fail	Ok,M
8	Z4923-04	BA041327.D	Surrogate #74 fail	Ok
9	Z4923-07	BA041328.D		Ok
10	Z4923-08	BA041329.D	Surrogate #74 fail	Ok
11	Z4923-12	BA041330.D		Ok
12	Z4923-14	BA041331.D		Ok
13	Z4923-15	BA041332.D		Ok
14	Z4923-16	BA041333.D		Ok
15	Z4973-05	BA041334.D		Ok,M
16	CLEAN UP	BA041335.D		Ok
17	CLEAN UP	BA041336.D		Ok
18	CCC0020BA0059	BA041337.D		Ok,M
19	CCC0020BA0060	BA041338.D	ZZZZZ	Ok,M
20	DFTPPBA0016	BA041339.D		Ok
21	CCC0020BA0061	BA041340.D	%dev of Compound#2 is -43.7	Ok,M

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Daily Analysis Runlog For Instrument ID # BNAA

STD. NAME	STD REF.#	STD. NAME	STD REF.#
Review By	nimisha	Review On	10/21/2008 12:00:00 AM
Tune/Reschk	OEP1844	Initial Calibration Stds	OEP1861-OEP1868
CCC	OEP1865	SubDirectory	BA102008
Internal Standard/PEM	OES3555	HP Acquire Method	BNA_A
ICV/I.BLK	NA	HP Processing Method	SOMO1.2-BA101908.M

Sr#	SampleId/DILF	Data File Name	Comment	Status
22	Z4923-06	BA041341.D		Ok,M
23	Z4923-02	BA041342.D	Surrogate #74 fail	Ok,M
24	Z4923-03	BA041343.D		Ok
25	Z4923-11	BA041344.D		Ok,M
26	Z4923-13	BA041345.D	Surrogate #5,7,11,44,74 fail	Ok,M
27	Z4923-10	BA041346.D	Surrogate #5,74 fail	Ok,M
28	Z4923-01	BA041347.D		Ok,M
29	Z4923-09	BA041348.D		Ok,M
30	Z4923-05	BA041349.D		Ok,M
31	Z4923-01MS	BA041350.D		Ok,M
32	Z4923-01MSD	BA041351.D		Ok,M
33	CLEAN UP	BA041352.D	ZZZZZ	Ok
34	CLEAN UP	BA041353.D	ZZZZZ	Ok
35	CCC0020BA0062	BA041354.D		Ok

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QC: LB410833

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 10/11/08

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
Z4914-21	C8(0-1.35)	69	1.15	8.72	6.59	71.9
Z4914-22	C8(0-1.35)	70	1.14	8.5	5.19	55.1
Z4914-23	C8(1.35-2.7)	71	1.15	8.84	6.39	68.2
Z4914-24	C8(1.35-2.7)	72	1.12	8.71	5.56	58.5
Z4920-03	AOC2-1	73	1.13	8.9	6.73	72.1
Z4920-04	AOC2-2	74	1.14	8.5	7.36	84.6
Z4920-05	AOC2-3	75	1.11	8.95	7.43	80.7
Z4920-06	AOC5-1	76	1.11	8.76	7.86	88.3
Z4920-07	AOC5-2	77	1.12	8.92	7.33	79.7
Z4920-08	AOC5-3	78	1.11	8.8	7.12	78.2
Z4920-09	Z4920-08MS	79	NR	NR	NR	NR
Z4920-10	Z4920-08MSD	80	NR	NR	NR	NR
Z4920-11	DUP	81	1.13	8.85	7.89	87.6
Z4920-12	AOC3-1A	82	1.14	8.8	6.09	64.7
Z4920-13	AOC3-1B	83	1.13	8.99	7.6	82.4
Z4923-01	AOC4-1A[0.0-0.5]	84	1.13	8.77	8.02	90.2
Z4923-02	AOC4-1B[4.5-5.0]	85	1.13	8.55	6.9	77.8
Z4923-03	AOC4-2A[0.0-0.5]	86	1.14	8.66	7.54	85.2
Z4923-04	AOC4-2B[4.5-5.0]	87	1.12	8.35	7.52	88.6
Z4923-05	AOC4-3A[0.0-0.5]	88	1.13	8.51	7.36	84.5
Z4923-06	AOC4-3B[4.5-5.0]	89	1.15	8.98	7.97	87.2
Z4923-07	AOC3-2A[0.0-0.5]	90	1.14	8.92	7.26	78.7
Z4923-08	AOC3-2B[4.0-4.5]	91	1.14	8.8	7.67	85.3
Z4923-09	AOC3-3A[0.0-0.5]	92	1.15	8.81	7.91	88.3
Z4923-10	AOC3-3B[4.0-4.5]	93	1.14	8.83	7.65	84.7
Z4923-11	BACK1A	94	1.14	8.52	7.19	82.0
Z4923-12	BACK1B	95	1.13	8.68	7.68	86.8
Z4923-13	BACK2A	96	1.13	8.85	7.27	79.6
Z4923-14	BACK2B	97	1.14	8.84	7.75	85.9
Z4923-15	BACK3A	98	1.13	8.99	7.63	82.7
Z4923-16	BACK3B	99	1.12	9.04	7.99	86.8
Z4901-12D	C20Q1S1CD	16D	1.12	8.75	7.91	89.0
Z4910-13D	B11(5.4-6.75)D	35D	1.13	8.73	7.78	87.5
Z4914-10D	C10(0-1.35)D	58D	1.13	8.85	8.45	94.9

OVEN TEMP: 106°C
TIME IN: 10/10/08 6:30PM [illegible]
TIME OUT: 10/11/08 10:00AM [illegible]

CHEMTECH

QC: LB40833

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 10/11/08

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
Z4920-08D	AOC5-3D	78D	1.11	8.83	7.22	79.2
Z4923-14D	BACK2BD	97D	1.14	8.87	7.85	86.9
BLANK	DISH	B1	1.13	1.13	1.13	0.0
BLANK	DISH	B2	1.14	1.14	1.14	0.0
BLANK	DISH	B3	1.12	1.12	1.12	0.0
BLANK	DISH	B4	1.13	1.13	1.13	0.0
BLANK	DISH	B5	1.15	1.15	1.15	0.0

OVEN TEMP: 106 C
TIME IN: 10/10/08 6:30PM
TIME OUT: 10/11/08 10:00AM

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

SHIPPING AND RECEIVING DOCUMENTATION

CHEMTECH
CHAIN OF CUSTODY RECORD

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(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

z 4920

CHEMTECH PROJECT NO.
QUOTE NO. Q0804002
COC Number 075885

536

CLIENT INFORMATION (REPORT TO BE SENT TO:)
COMPANY: DEWBERRY
ADDRESS: 600 Parsippany Road
CITY: Parsippany STATE: NJ ZIP: 07054
ATTENTION: Corey Nachshen
PHONE: 973-739-9400 FAX: 973-428-8509

CLIENT PROJECT INFORMATION
PROJECT NAME: FCI-DANBURY
PROJECT NO. 50013147 LOCATION: Danbury, CT
PROJECT MANAGER: Corey Nachshen
e-mail: cnachshen@dewberry.com
PHONE: 973-739-9400 FAX: 973-428-8509

CLIENT BILLING INFORMATION
BILL TO: DEWBERRY PO# 50013147
ADDRESS: 600 Parsippany Road
CITY: Parsippany STATE: NJ ZIP: 07054
ATTENTION: Corey Nachshen PHONE: 973-739-9400

DATA TURNAROUND INFORMATION
FAX: 10 DAYS *
HARD COPY: 10 DAYS *
EDD: 10 DAYS *
PREAPPROVED TAT: ☒ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
☐ RESULTS ONLY ☒ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☒ EDD FORMAT EXCEL

ANALYSIS
1 TCL VOC+10 (SOM01.2)
2 TCL SVOC+20 (SOM01.2)
3 TCL PEST (SOM01.2)
4 PCBs (SOM01.2)
5 TAL METALS (ILM05.4)
6 CYANIDE (ILM05.4)
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 A/E	2 E	3 E	4 E	5 B/E	6 D/E	7	8	9	COMMENTS
1.	RB-1	AQ	–		10-7-08	1100	7	X	X	X	X	X	X				
2.	TB-1	AQ	–		–	–	2	X									
3.	AOC2-1	SL		X	10-7-08	1330	2	X	X	X	X	X	X				
4.	AOC2-2	SL		X	"	1340	2	X	X	X	X	X	X				
5.	AOC2-3	SL		X	"	1345	2	X	X	X	X	X	X				
6.	AOC5-1	SL		X	"	1400	2	X	X	X	X	X	X				
7.	AOC5-2	SL		X	"	1410	2	X	X	X	X	X	X				
8.	AOC5-3	SL		X	"	1420	2	X	X	X	X	X	X				
9.	AOC5-3 MS	SL		X	"	1420	2	X	X	X	X	X	X				
10.	AOC5-3 MSD	SL		X	"	1420	2	X	X	X	X	X	X				

PRESERVATIVES — Specify Preservatives: A – HCl, B – HNO_3, C – H_2SO_4, D – NaOH, E – ICE, F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Corey	10/8/08	1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. FED EX	DATE/TIME: 10/9/08 930	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 4°C
Ice in Cooler?: yes

Page 1 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

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CHAIN OF CUSTODY RECORD

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CHEMTECH PROJECT NO.
QUOTE NO. 537
COC Number 075882

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: DEWBERRY
ADDRESS: 600 Parsippany Road
CITY: Parsippany STATE: NJ ZIP: 07054
ATTENTION: Corey Nachshen
PHONE: 973-739-9400 FAX: 973-428-8509

CLIENT PROJECT INFORMATION

PROJECT NAME: FCI-DANBURY
PROJECT NO: 50013147 LOCATION: Danbury, CT
PROJECT MANAGER: Corey Nachshen
e-mail: cnachshen@dewberry.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: DEWBERRY PO#: 50013147
ADDRESS: 600 Parsippany Road
CITY: Parsippany STATE: NJ ZIP: 07054
ATTENTION: Corey Nachshen PHONE: 973-739-9400

DATA TURNAROUND INFORMATION

FAX: 10 DAYS *
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EDD: 10 DAYS *
PREAPPROVED TAT: ☒ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☒ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☒ EDD FORMAT EXCEL

ANALYSIS

1 TCL VOLS (SOMO1.2)
2 TCL SVOLS 720 (SOMO1.2)
3 TCL PEST (SOMO1.2)
4 PCBs (SOMO1.2)
5 TAL METALS (FLMO5.4)
6 CYANIDE (FLMO5.4)
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/E	E	E	E	A/E	A/E				← Specify Preservatives A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other
1.	DUP	SL		X	10-7-08		2	X	X	X	X	X	X				
2.	AOC3-1A	SL		X	↓	1450	2	X	X	X	X	X	X				
3.	AOC3-1B	SL		X	↓	1500	2	X	X	X	X	X	X				
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 10/8/08	RECEIVED BY: 1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. FED EX	DATE/TIME: 10/9/08 930	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 4°C
Ice in Cooler?: yes

Page 2 of 2

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Origin ID: CBZA (973) 739-9400
Corey Nachshen
Dewberry
600 Parsippany Road

Parsippany, NJ 07054

JCL5091608/20/23

Ship Date: 08OCT08
ActWgt: 25.0 LB
CAD: 8717900/INET8091
Account#: S *********

Dims: 24 X 12 X 12 IN

Delivery Address Bar Code

Ref # 50013147 E001ODCS
Invoice #
PO #
Dept # 2235 6085

SHIP TO: (908) 789-8900 BILL SENDER

Sample Receiving
CHEMTECH
284 SHEFFIELD ST

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2 of 2

MPS# 0263 7960 9032 9115

Mstr# 7960 9032 9104 0201

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From: Origin ID: CBZA (973) 739-9400
Corey Nachshen
Dewberry
600 Parsippany Road

Parsippany, NJ 07054

FedEx Express

JCLS091608/20/23

Ship Date: 08OCT08
ActWgt: 25.0 LB
CAD: 8717900/INET8091
Account#: S *********

Dims: 24 X 12 X 12 IN

Delivery Address Bar Code

Ref # 50013147 E001ODCS
Invoice #
PO #
Dept # 2235 6085

SHIP TO: (908) 789-8900 BILL SENDER

Sample Receiving
CHEMTECH
284 SHEFFIELD ST

MOUNTAINSIDE, NJ 07092

1 of 2

TRK# 0201 7960 9032 9104

MASTER

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LABORATORY CERTIFICATION

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New Jersey	20012
New York	11376
Florida	E87935
Maryland	296
Massachusetts	M-NJ503
Oklahoma	9705
Rhode Island	LAO00259
Connecticut	PH-0649
Maine	NJ0503
Pennsylvania	68-548

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END OF ANALYTICAL RESULTS