TRIMATRIX LABORATORIES

SECTION - G

GC/MS SEMI-VOLATILE ORGANICS

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Individual sample results relate only to the sample tested.

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STATEMENT OF DATA QUALIFICATIONS

Semivolatile Organic Compounds by EPA Method 8270C

Qualification: The quality control batch(s), associated with the following samples and analyses, do not contain an MS/MSD or MS/DUP because client specific matrix QC was not requested. An LCS and LCSD were analyzed as the measure of batch precision and accuracy.

Analysis: USEPA-8270C

Sample/Analyte:
1205226-01 106091
1205226-02 106191
1205358-01 1060SL
1205374-01 106RCT

Qualification: Manual integration was performed on this sample for the analyte(s) listed below in accordance with the TriMatrix Manual Integration SOP. All necessary documentation, including the signed review, is included in the raw data section of the data package.

Analysis: USEPA-8270C

Sample/Analyte: 1205358-01 1060SL Benzo(k)fluoranthene

Qualification: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: USEPA-8270C

Sample/Analyte:

1205226-01 106091	Benzo(a)anthracene
1205226-01 106091	Benzo(k)fluoranthene
1205226-01 106091	Chrysene
1205226-02 106191	Benzo(a)anthracene
1205226-02 106191	Benzo(k)fluoranthene
1205358-01 1060SL	Anthracene
1205358-01 1060SL	Benzo(a)anthracene
1205358-01 1060SL	Chrysene
1205358-01 1060SL	Fluoranthene
1205358-01 1060SL	Phenanthrene
1205358-01 1060SL	Pyrene
1205374-01 106RCT	Benzo(a)anthracene

TriMatrix Laboratories, Inc.

TechLaw

Project: KNM

SDG: KNM050712

USEPA-8270C

SAMPLE ID SUMMARY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050712

Client: TechLaw

Project: KNM

Client Sample Id:	Lab Sample Id:
106091	1205226-01
106191	1205226-02
1060SL	1205358-01
106RCT	1205374-01

SURROGATE STANDARD RECOVERY AND RT SUMMARY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2E23055

SDG: KNM050712
Project: KNM
Calibration: 2E23023
Instrument: 195

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Calibration Check (2E23055-CCV1)		**Lab File ID: 10BNA0523.D Analyzed: 05/23/12 10:39**					
Nitrobenzene-d5	5.67	5.90	-0.23	+/-1.0	105	75 - 125	
2-Fluorobiphenyl	7.74	7.97	-0.23	+/-1.0	104	75 - 125	
o-Terphenyl	10.57	10.81	-0.24	+/-1.0	105	75 - 125	
Blank (1206145-BLK1)		**Lab File ID: 1206145-BLK1Analyzed: 05/23/12 12:21**					
Nitrobenzene-d5	5.67	5.90	-0.23	+/-1.0	65	31 - 123	
2-Fluorobiphenyl	7.73	7.97	-0.23	+/-1.0	75	25 - 113	
o-Terphenyl	10.57	10.81	-0.24	+/-1.0	83	42 - 125	
LCS (1206145-BS1)		**Lab File ID: 1206145-BS1.DAnalyzed: 05/23/12 12:46**					
Nitrobenzene-d5	5.67	5.90	-0.23	+/-1.0	61	31 - 123	
2-Fluorobiphenyl	7.73	7.97	-0.23	+/-1.0	68	25 - 113	
o-Terphenyl	10.57	10.81	-0.24	+/-1.0	75	42 - 125	
LCS Dup (1206145-BSD1)		**Lab File ID: 1206145-BSD1Analyzed: 05/23/12 13:12**					
Nitrobenzene-d5	5.67	5.90	-0.23	+/-1.0	56	31 - 123	
2-Fluorobiphenyl	7.74	7.97	-0.23	+/-1.0	65	25 - 113	
o-Terphenyl	10.57	10.81	-0.24	+/-1.0	73	42 - 125	
106091 (1205226-01)		**Lab File ID: 1205226-01.D Analyzed: 05/23/12 14:01**					
Nitrobenzene-d5	5.68	5.90	-0.22	+/-1.0	51	31 - 123	
2-Fluorobiphenyl	7.74	7.97	-0.23	+/-1.0	66	25 - 113	
o-Terphenyl	10.57	10.81	-0.24	+/-1.0	79	42 - 125	
106191 (1205226-02)		**Lab File ID: 1205226-02.D Analyzed: 05/23/12 14:27**					
Nitrobenzene-d5	5.67	5.90	-0.23	+/-1.0	53	31 - 123	
2-Fluorobiphenyl	7.74	7.97	-0.23	+/-1.0	53	25 - 113	
o-Terphenyl	10.57	10.81	-0.24	+/-1.0	71	42 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050712
Client: TechLaw
Project: KNM
Matrix: Water
Calibration: 2E31003
Sequence: 2E31014
Instrument: 308

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Calibration Check (2E31014-CCV1)		**Lab File ID: 10bna0530.D**		**Analyzed: 05/30/12 11:50**			
Nitrobenzene-d5	9.03	8.97	0.07	+/-1.0	105	75 - 125	
2-Fluorobiphenyl	13.17	13.11	0.06	+/-1.0	99	75 - 125	
o-Terphenyl	18.83	18.78	0.04	+/-1.0	98	75 - 125	
Blank (1206587-BLK1)		**Lab File ID: 1206587-blk1.I**		**Analyzed: 05/30/12 12:59**			
Nitrobenzene-d5	9.02	8.97	0.06	+/-1.0	92	31 - 123	
2-Fluorobiphenyl	13.17	13.11	0.06	+/-1.0	101	25 - 113	
o-Terphenyl	18.82	18.78	0.04	+/-1.0	108	42 - 125	
LCS (1206587-BS1)		**Lab File ID: 1206587-bs1.D**		**Analyzed: 05/30/12 13:35**			
Nitrobenzene-d5	9.04	8.97	0.07	+/-1.0	112	31 - 123	
2-Fluorobiphenyl	13.16	13.11	0.05	+/-1.0	90	25 - 113	
o-Terphenyl	18.82	18.78	0.04	+/-1.0	96	42 - 125	
LCS Dup (1206587-BSD1)		**Lab File ID: 1206587-bsd1.I**		**Analyzed: 05/30/12 14:10**			
Nitrobenzene-d5	9.03	8.97	0.06	+/-1.0	86	31 - 123	
2-Fluorobiphenyl	13.16	13.11	0.05	+/-1.0	87	25 - 113	
o-Terphenyl	18.82	18.78	0.04	+/-1.0	90	42 - 125	
1060SL (1205358-01)		**Lab File ID: 1205358-01.D**		**Analyzed: 05/30/12 15:20**			
Nitrobenzene-d5	9.03	8.97	0.06	+/-1.0	90	31 - 123	
2-Fluorobiphenyl	13.17	13.11	0.06	+/-1.0	91	25 - 113	
o-Terphenyl	18.82	18.78	0.04	+/-1.0	98	42 - 125	
106RCT (1205374-01)		**Lab File ID: 1205374-01.D**		**Analyzed: 05/30/12 15:55**			
Nitrobenzene-d5	9.03	8.97	0.06	+/-1.0	83	31 - 123	
2-Fluorobiphenyl	13.16	13.11	0.05	+/-1.0	87	25 - 113	
o-Terphenyl	18.82	18.78	0.04	+/-1.0	92	42 - 125	

LCS / LCS DUPLICATE RECOVERY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM050712
Project: KNM
Laboratory ID: 1206145-BS1
Preparation: 3510C Liquid-Liquid Extraction
Initial/Final: 1000 mL / 1 mL

QC Batch: 1206145
Sequence: 2E23055

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Acenaphthene	10.0	6.61	66	53 - 126	ug/L
Naphthalene	10.1	6.84	68	50 - 127	ug/L
Pyrene	10.0	7.56	76	60 - 134	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1206145

SDG: KNM050712

Project: KNM

Laboratory ID: 1206145-BSD1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 1000 mL / 1 mL

Sequence: 2E23055

Analyte	Spike Added ug/L	LCSD Conc.	LCSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Acenaphthene	10.0	6.43	64	3	20	53 - 126	ug/L
Naphthalene	10.1	6.58	65	4	20	50 - 127	ug/L
Pyrene	10.0	7.66	77	1	20	60 - 134	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1206587

SDG: KNM050712

Project: KNM

Laboratory ID: 1206587-BS1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 1000 mL / 1 mL

Sequence: 2E31014

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Acenaphthene	9.40	8.86	94	53 - 126	ug/L
Naphthalene	9.40	8.96	95	50 - 127	ug/L
Pyrene	9.40	9.21	98	60 - 134	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1206587

SDG: KNM050712

Project: KNM

Laboratory ID: 1206587-BSD1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 1000 mL / 1 mL

Sequence: 2E31014

Analyte	Spike Added ug/L	LCSD Conc.	LCSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Acenaphthene	9.40	8.71	93	2	20	53 - 126	ug/L
Naphthalene	9.40	8.43	90	6	20	50 - 127	ug/L
Pyrene	9.40	9.21	98	0	20	60 - 134	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD BLANK DATA SHEET
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050712

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1206145-BLK1 File ID: 1206145-BLK1.D

Prepared: 05/15/12 07:59 Analyzed: 05/23/12 12:21

Preparation: 3510C Liquid-Liquid Ext Initial/Final: 1000 mL / 1 mL

QC Batch: 1206145 Sequence: 2E23055 Calibration: 2E23023 Instrument: 195

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
83-32-9	Acenaphthene	5.0	ug/L	0.050	5.0	U
208-96-8	Acenaphthylene	5.0	ug/L	0.050	5.0	U
120-12-7	Anthracene	5.0	ug/L	0.018	5.0	U
56-55-3	Benzo(a)anthracene	0.040	ug/L	0.026	1.0	J
50-32-8	Benzo(a)pyrene	1.0	ug/L	0.040	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	ug/L	0.071	1.0	U
207-08-9	Benzo(k)fluoranthene	0.070	ug/L	0.031	1.0	J
191-24-2	Benzo(g,h,i)perylene	1.0	ug/L	0.026	1.0	U
218-01-9	Chrysene	0.050	ug/L	0.031	1.0	J
53-70-3	Dibenz(a,h)anthracene	2.0	ug/L	0.034	2.0	U
206-44-0	Fluoranthene	1.0	ug/L	0.017	1.0	U
86-73-7	Fluorene	5.0	ug/L	0.022	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	ug/L	0.024	2.0	U
91-57-6	2-Methylnaphthalene	5.0	ug/L	0.024	5.0	U
91-20-3	Naphthalene	5.0	ug/L	0.050	5.0	U
85-01-8	Phenanthrene	2.0	ug/L	0.024	2.0	U
129-00-0	Pyrene	5.0	ug/L	0.025	5.0	U

System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Nitrobenzene-d5	10.0	6.54	65	31 - 123	
2-Fluorobiphenyl	10.0	7.51	75	25 - 113	
o-Terphenyl	10.1	8.34	83	42 - 125	

Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
1,4-Dichlorobenzene-d4	446394	4.99	362232	5.24	
Naphthalene-d8	1968505	6.48	1571264	6.72	
Acenaphthene-d10	1148072	8.48	900280	8.72	
Phenanthrene-d10	1794953	10.14	1451803	10.38	
Chrysene-d12	1109288	13.07	888866	13.33	
Perylene-d12	1195485	14.55	1051882	14.81	

QC BATCH SUMMARY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050712

Client: TechLaw

Project: KNM

QC Batch: 1206145

QC Batch Matrix: Water

Preparation: 3510C Liquid-Liquid Extraction

Sample Name	Lab Sample ID	Date Prepared	Observations
106091	1205226-01	05/15/12 07:59	
106191	1205226-02	05/15/12 07:59	
Blank	1206145-BLK1	05/15/12 07:59	
LCS	1206145-BS1	05/15/12 07:59	
LCS Dup	1206145-BSD1	05/15/12 07:59	

METHOD BLANK DATA SHEET
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050712

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1206587-BLK1 File ID: 1206587-blk1.D

Prepared: 05/24/12 08:11 Analyzed: 05/30/12 12:59

Preparation: 3510C Liquid-Liquid Ext Initial/Final: 1000 mL / 1 mL

QC Batch: 1206587 Sequence: 2E31014 Calibration: 2E31003 Instrument: 308

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
83-32-9	Acenaphthene	5.0	ug/L	0.050	5.0	U
208-96-8	Acenaphthylene	5.0	ug/L	0.050	5.0	U
120-12-7	Anthracene	0.040	ug/L	0.018	5.0	J
56-55-3	Benzo(a)anthracene	0.070	ug/L	0.026	1.0	J
50-32-8	Benzo(a)pyrene	1.0	ug/L	0.040	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	ug/L	0.071	1.0	U
191-24-2	Benzo(g,h,i)perylene	1.0	ug/L	0.026	1.0	U
207-08-9	Benzo(k)fluoranthene	0.040	ug/L	0.031	1.0	J
218-01-9	Chrysene	0.060	ug/L	0.031	1.0	J
53-70-3	Dibenz(a,h)anthracene	2.0	ug/L	0.034	2.0	U
206-44-0	Fluoranthene	0.060	ug/L	0.017	1.0	J
86-73-7	Fluorene	5.0	ug/L	0.022	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	ug/L	0.024	2.0	J
91-57-6	2-Methylnaphthalene	5.0	ug/L	0.024	5.0	U
91-20-3	Naphthalene	5.0	ug/L	0.050	5.0	U
85-01-8	Phenanthrene	0.060	ug/L	0.024	2.0	J
129-00-0	Pyrene	0.070	ug/L	0.025	5.0	J

System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Nitrobenzene-d5	10.0	9.23	92	31 - 123	
2-Fluorobiphenyl	10.0	10.1	101	25 - 113	
o-Terphenyl	10.1	10.9	108	42 - 125	

Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
Naphthalene-d8	804097	10.596	1026583	10.538	
Acenaphthene-d10	381764	14.705	540093	14.648	
Phenanthrene-d10	505040	18.091	883336	18.04	
Chrysene-d12	244144	21.658	409265	21.619	
Perylene-d12	239407	23.401	367166	23.35	

QC BATCH SUMMARY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050712

Client: TechLaw

Project: KNM

QC Batch: 1206587 QC Batch Matrix: Water

Preparation: 3510C Liquid-Liquid Extraction

Sample Name	Lab Sample ID	Date Prepared	Observations
1060SL	1205358-01	05/24/12 08:11	
106RCT	1205374-01	05/24/12 08:11	
Blank	1206587-BLK1	05/24/12 08:11	Same as 1206588
LCS	1206587-BS1	05/24/12 08:11	Same as 1206588
LCS Dup	1206587-BSD1	05/24/12 08:11	Same as 1206588

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2E23075-TUN1
Injection Date: 05/01/12
Sequence: 2E23075

SDG: KNM050712
Project: KNM
Lab File ID: DFT0501B
Injection Time: 09:35
Calibration: 2E23023
Instrument ID: 195

m/z	Ion Abundance Criteria	% Relative Abundance	
51	30 - 60% of 198	30.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	34.5	PASS
70	Less than 2% of 69	0.694	PASS
127	40 - 60% of 198	47.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.46	PASS
275	10 - 30% of 198	25.8	PASS
365	1.0001 - 200% of 198	2.52	PASS
441	0.0001 - 99.9999% of 443	69	PASS
442	40.0001 - 200% of 198	79.4	PASS
443	17 - 23% of 442	19.7	PASS

INITIAL CALIBRATION STANDARDS

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Sequence: 2E23075

SDG: KNM050712

Project: KNM

Calibration: 2E23023

Instrument: 195

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2040943	dftpp tune	2E23075-TUN1	DFT0501B	05/01/12 09:35
2050106	0.5ppm BNA	2E23075-CAL1	05BNA0501.D	05/01/12 11:44
2050107	1ppm BNA	2E23075-CAL2	1BNA0501.D	05/01/12 12:10
2050108	2ppm BNA	2E23075-CAL3	2BNA0501.D	05/01/12 12:36
2050109	5ppm BNA	2E23075-CAL4	5BNA0501.D	05/01/12 13:02
2050110	10ppm BNA	2E23075-CAL5	10BNA0501A.D	05/01/12 13:28
2050112	20ppm BNA	2E23075-CAL7	20BNA0501.D	05/01/12 14:20
2050113	25ppm BNA	2E23075-CAL8	25BNA0501.D	05/01/12 14:47
2050111	15ppm BNA	2E23075-CAL6	15BNA0501R.D	05/01/12 15:23
2050114	10ppm LCS	2E23075-SCV1	LCSBNA0501.D	05/01/12 15:49

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Lab Sample ID: 2E31013-TUN1

Injection Date: 05/18/12

Sequence: 2E31013

SDG: KNM050712

Project: KNM

Lab File ID: dft0518d.D

Injection Time: 08:21

Calibration: 2E31003

Instrument ID: 308

m/z	Ion Abundance Criteria	% Relative Abundance	
51	30 - 60% of 198	42.5	PASS
68	Less than 2% of 69	1.59	PASS
69	Less than 200% of 198	45	PASS
70	Less than 2% of 69	0.299	PASS
127	40 - 60% of 198	49.6	PASS
197	Less than 1% of 198	0.14	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.96	PASS
275	10 - 30% of 198	22.6	PASS
365	1.0001 - 200% of 198	2.94	PASS
441	0.0001 - 99.9999% of 443	72.2	PASS
442	40.0001 - 200% of 198	54.9	PASS
443	17 - 23% of 442	20.4	PASS

INITIAL CALIBRATION STANDARDS

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Sequence: 2E31013

SDG: KNM050712

Project: KNM

Calibration: 2E31003

Instrument: 308

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2040943	dftpp tune	2E31013-TUN1	dft0518d.D	05/18/12 08:21
2050484	10ppm bna	2E31013-CAL5	10bna0518.D	05/18/12 09:45
2050488	0.5ppm bna	2E31013-CAL1	05bna0518.D	05/18/12 10:20
2050487	1ppm bna	2E31013-CAL2	1bna0518.D	05/18/12 10:55
2050486	2ppm bna	2E31013-CAL3	2bna0518.D	05/18/12 11:30
2050485	5ppm bna	2E31013-CAL4	5bna0518.D	05/18/12 12:05
2050482	20ppm bna	2E31013-CAL7	20bna0518.D	05/18/12 13:16
2050481	25ppm bna	2E31013-CAL8	25bna0518.D	05/18/12 13:51
2050483	15ppm bna	2E31013-CAL6	15bna0518a.D	05/18/12 14:26
2050489	10ppm bnaSCV	2E31013-SCV1	scvbna0518a.D	05/18/12 15:01

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050712
Client: TechLaw
Project: KNM
Lab Sample ID: 2E23055-TUN1
Lab File ID: DFT0523B
Injection Date: 05/23/12
Injection Time: 09:51
Sequence: 2E23055
Instrument ID: 195

m/z	Ion Abundance Criteria	% Relative Abundance	
51	30 - 60% of 198	35.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	40.4	PASS
70	Less than 2% of 69	0.675	PASS
127	40 - 60% of 198	52.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.75	PASS
275	10 - 30% of 198	23.2	PASS
365	1.0001 - 200% of 198	2.08	PASS
441	0.0001 - 99.9999% of 443	67.6	PASS
442	40.0001 - 200% of 198	63.5	PASS
443	17 - 23% of 442	20.5	PASS

ANALYSIS BATCH (SEQUENCE) SUMMARY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Sequence: 2E23055

SDG: KNM050712

Project: KNM

Calibration: 2E23023

Instrument: 195

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2E23055-TUN1	DFT0523B	05/23/12 09:51
Calibration Check	2E23055-CCV1	10BNA0523.D	05/23/12 10:39
Blank	1206145-BLK1	1206145-BLK1.D	05/23/12 12:21
LCS	1206145-BS1	1206145-BS1.D	05/23/12 12:46
LCS Dup	1206145-BSD1	1206145-BSD1.D	05/23/12 13:12
106091	1205226-01	1205226-01.D	05/23/12 14:01
106191	1205226-02	1205226-02.D	05/23/12 14:27

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050712
Client: TechLaw
Project: KNM
Lab Sample ID: 2E31014-TUN1
Lab File ID: dft0530b.D
Injection Date: 05/30/12
Injection Time: 11:29
Sequence: 2E31014
Instrument ID: 308

m/z	Ion Abundance Criteria	% Relative Abundance	
51	30 - 60% of 198	43.1	PASS
68	Less than 2% of 69	1.47	PASS
69	Less than 200% of 198	44.8	PASS
70	Less than 2% of 69	0.433	PASS
127	40 - 60% of 198	50.1	PASS
197	Less than 1% of 198	0.535	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.76	PASS
275	10 - 30% of 198	24.6	PASS
365	1.0001 - 200% of 198	3.37	PASS
441	0.0001 - 99.9999% of 443	74.1	PASS
442	40.0001 - 200% of 198	59.9	PASS
443	17 - 23% of 442	20.3	PASS

ANALYSIS BATCH (SEQUENCE) SUMMARY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Sequence: 2E31014

SDG: KNM050712

Project: KNM

Calibration: 2E31003

Instrument: 308

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2E31014-TUN1	dft0530b.D	05/30/12 11:29
Calibration Check	2E31014-CCV1	10bna0530.D	05/30/12 11:50
Blank	1206587-BLK1	1206587-blk1.D	05/30/12 12:59
LCS	1206587-BS1	1206587-bs1.D	05/30/12 13:35
LCS Dup	1206587-BSD1	1206587-bsd1.D	05/30/12 14:10
1060SL	1205358-01	1205358-01.D	05/30/12 15:20
106RCT	1205374-01	1205374-01.D	05/30/12 15:55

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050712
Client: TechLaw
Project: KNM
Matrix: Water
Calibration: 2E23023
Sequence: 2E23055
Instrument: 195

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2E23055-CCV1)			Lab File ID: 10BNA0523.D			Analyzed: 05/23/12 10:39			
1,4-Dichlorobenzene-d4	355951	4.99	362232	5.24	98	50 - 200	-0.2500	+/-0.50	
Naphthalene-d8	1596859	6.48	1571264	6.72	102	50 - 200	-0.2400	+/-0.50	
Acenaphthene-d10	918764	8.48	900280	8.72	102	50 - 200	-0.2400	+/-0.50	
Phenanthrene-d10	1444951	10.14	1451803	10.38	100	50 - 200	-0.2400	+/-0.50	
Chrysene-d12	909137	13.08	888866	13.33	102	50 - 200	-0.2500	+/-0.50	
Perylene-d12	1036136	14.55	1051882	14.81	99	50 - 200	-0.2600	+/-0.50	
Blank (1206145-BLK1)			Lab File ID: 1206145-BLK1.D			Analyzed: 05/23/12 12:21			
1,4-Dichlorobenzene-d4	446394	4.99	362232	5.24	123	50 - 200	-0.2500	+/-0.50	
Naphthalene-d8	1968505	6.48	1571264	6.72	125	50 - 200	-0.2400	+/-0.50	
Acenaphthene-d10	1148072	8.48	900280	8.72	128	50 - 200	-0.2400	+/-0.50	
Phenanthrene-d10	1794953	10.14	1451803	10.38	124	50 - 200	-0.2400	+/-0.50	
Chrysene-d12	1109288	13.07	888866	13.33	125	50 - 200	-0.2600	+/-0.50	
Perylene-d12	1195485	14.55	1051882	14.81	114	50 - 200	-0.2600	+/-0.50	
LCS (1206145-BS1)			Lab File ID: 1206145-BS1.D			Analyzed: 05/23/12 12:46			
1,4-Dichlorobenzene-d4	473331	4.99	362232	5.24	131	50 - 200	-0.2500	+/-0.50	
Naphthalene-d8	2111617	6.48	1571264	6.72	134	50 - 200	-0.2400	+/-0.50	
Acenaphthene-d10	1225883	8.48	900280	8.72	136	50 - 200	-0.2400	+/-0.50	
Phenanthrene-d10	1947280	10.13	1451803	10.38	134	50 - 200	-0.2500	+/-0.50	
Chrysene-d12	1177426	13.07	888866	13.33	132	50 - 200	-0.2600	+/-0.50	
Perylene-d12	1313299	14.55	1051882	14.81	125	50 - 200	-0.2600	+/-0.50	
LCS Dup (1206145-BSD1)			Lab File ID: 1206145-BSD1.D			Analyzed: 05/23/12 13:12			
1,4-Dichlorobenzene-d4	468117	4.99	362232	5.24	129	50 - 200	-0.2500	+/-0.50	
Naphthalene-d8	2044539	6.48	1571264	6.72	130	50 - 200	-0.2400	+/-0.50	
Acenaphthene-d10	1187331	8.48	900280	8.72	132	50 - 200	-0.2400	+/-0.50	
Phenanthrene-d10	1865398	10.13	1451803	10.38	128	50 - 200	-0.2500	+/-0.50	
Chrysene-d12	1086003	13.07	888866	13.33	122	50 - 200	-0.2600	+/-0.50	
Perylene-d12	1214046	14.55	1051882	14.81	115	50 - 200	-0.2600	+/-0.50	
106091 (1205226-01)			Lab File ID: 1205226-01.D			Analyzed: 05/23/12 14:01			
1,4-Dichlorobenzene-d4	460049	5	362232	5.24	127	50 - 200	-0.2400	+/-0.50	
Naphthalene-d8	2197256	6.48	1571264	6.72	140	50 - 200	-0.2400	+/-0.50	
Acenaphthene-d10	1162128	8.48	900280	8.72	129	50 - 200	-0.2400	+/-0.50	
Phenanthrene-d10	1812524	10.14	1451803	10.38	125	50 - 200	-0.2400	+/-0.50	
Chrysene-d12	1157599	13.07	888866	13.33	130	50 - 200	-0.2600	+/-0.50	
Perylene-d12	1317510	14.55	1051882	14.81	125	50 - 200	-0.2600	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050712
Client: TechLaw
Project: KNM
Matrix: Water
Calibration: 2E23023
Sequence: 2E23055
Instrument: 195

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
106191 (1205226-02)			Lab File ID: 1205226-02.D			Analyzed: 05/23/12 14:27			
1,4-Dichlorobenzene-d4	444442	5	362232	5.24	123	50 - 200	-0.2400	+/-0.50	
Naphthalene-d8	2189081	6.48	1571264	6.72	139	50 - 200	-0.2400	+/-0.50	
Acenaphthene-d10	1189781	8.49	900280	8.72	132	50 - 200	-0.2300	+/-0.50	
Phenanthrene-d10	1905229	10.14	1451803	10.38	131	50 - 200	-0.2400	+/-0.50	
Chrysene-d12	1215004	13.07	888866	13.33	137	50 - 200	-0.2600	+/-0.50	
Perylene-d12	1378101	14.55	1051882	14.81	131	50 - 200	-0.2600	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2E31014

SDG: KNM050712
Project: KNM
Calibration: 2E31003
Instrument: 308

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2E31014-CCV1)			**Lab File ID: 10bna0530.D**			**Analyzed: 05/30/12 11:50**			
Naphthalene-d8	1748237	10.601	1026583	10.538	170	50 - 200	0.0630	+/-0.50	
Acenaphthene-d10	946348	14.711	540093	14.648	175	50 - 200	0.0630	+/-0.50	
Phenanthrene-d10	1483026	18.091	883336	18.04	168	50 - 200	0.0510	+/-0.50	
Chrysene-d12	627515	21.658	409265	21.619	153	50 - 200	0.0390	+/-0.50	
Perylene-d12	496761	23.401	367166	23.35	135	50 - 200	0.0510	+/-0.50	
Blank (1206587-BLK1)			**Lab File ID: 1206587-blk1.D**			**Analyzed: 05/30/12 12:59**			
Naphthalene-d8	804097	10.596	1026583	10.538	78	50 - 200	0.0580	+/-0.50	
Acenaphthene-d10	381764	14.705	540093	14.648	71	50 - 200	0.0570	+/-0.50	
Phenanthrene-d10	505040	18.091	883336	18.04	57	50 - 200	0.0510	+/-0.50	
Chrysene-d12	244144	21.658	409265	21.619	60	50 - 200	0.0390	+/-0.50	
Perylene-d12	239407	23.401	367166	23.35	65	50 - 200	0.0510	+/-0.50	
LCS (1206587-BS1)			**Lab File ID: 1206587-bs1.D**			**Analyzed: 05/30/12 13:35**			
Naphthalene-d8	840280	10.596	1026583	10.538	82	50 - 200	0.0580	+/-0.50	
Acenaphthene-d10	428735	14.705	540093	14.648	79	50 - 200	0.0570	+/-0.50	
Phenanthrene-d10	588278	18.091	883336	18.04	67	50 - 200	0.0510	+/-0.50	
Chrysene-d12	295978	21.658	409265	21.619	72	50 - 200	0.0390	+/-0.50	
Perylene-d12	247180	23.401	367166	23.35	67	50 - 200	0.0510	+/-0.50	
LCS Dup (1206587-BSD1)			**Lab File ID: 1206587-bsd1.D**			**Analyzed: 05/30/12 14:10**			
Naphthalene-d8	938114	10.596	1026583	10.538	91	50 - 200	0.0580	+/-0.50	
Acenaphthene-d10	473108	14.705	540093	14.648	88	50 - 200	0.0570	+/-0.50	
Phenanthrene-d10	646512	18.091	883336	18.04	73	50 - 200	0.0510	+/-0.50	
Chrysene-d12	316173	21.653	409265	21.619	77	50 - 200	0.0340	+/-0.50	
Perylene-d12	270190	23.401	367166	23.35	74	50 - 200	0.0510	+/-0.50	
1060SL (1205358-01)			**Lab File ID: 1205358-01.D**			**Analyzed: 05/30/12 15:20**			
Naphthalene-d8	847001	10.596	1026583	10.538	83	50 - 200	0.0580	+/-0.50	
Acenaphthene-d10	414203	14.705	540093	14.648	77	50 - 200	0.0570	+/-0.50	
Phenanthrene-d10	534865	18.091	883336	18.04	61	50 - 200	0.0510	+/-0.50	
Chrysene-d12	254214	21.658	409265	21.619	62	50 - 200	0.0390	+/-0.50	
Perylene-d12	260716	23.401	367166	23.35	71	50 - 200	0.0510	+/-0.50	
106RCT (1205374-01)			**Lab File ID: 1205374-01.D**			**Analyzed: 05/30/12 15:55**			
Naphthalene-d8	842123	10.596	1026583	10.538	82	50 - 200	0.0580	+/-0.50	
Acenaphthene-d10	408104	14.705	540093	14.648	76	50 - 200	0.0570	+/-0.50	
Phenanthrene-d10	536744	18.091	883336	18.04	61	50 - 200	0.0510	+/-0.50	
Chrysene-d12	249402	21.653	409265	21.619	61	50 - 200	0.0340	+/-0.50	
Perylene-d12	257223	23.401	367166	23.35	70	50 - 200	0.0510	+/-0.50	

HOLDING TIME SUMMARY
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050712

Client: TechLaw

Project: KNM

Method: Semivolatile Organic Compounds by EPA Method 8270C

Sample Name	Date Collected	Date Received	Date Leached	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
106091	05/09/12	05/10/12		05/15/12	6	7	05/23/12	8	40	
106191	05/09/12	05/10/12		05/15/12	6	7	05/23/12	8	40	
1060SL	05/17/12	05/18/12		05/24/12	7	7	05/30/12	6	40	
106RCT	05/18/12	05/21/12		05/24/12	6	7	05/30/12	6	40	

ORGANIC ANALYSIS DATA SHEET
USEPA-8270C

106091

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050712

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205226-01 File ID: 1205226-01.D

Sampled: 05/09/12 10:00 Prepared: 05/15/12 07:59 Analyzed: 05/23/12 14:01

Solids: Preparation: 3510C Liquid-Liquid Ext Initial/Final: 980 mL / 1 mL

QC Batch: 1206145 Sequence: 2E23055 Calibration: 2E23023 Instrument: 195

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
83-32-9	Acenaphthene	1	5.0	0.050	5.0	U
208-96-8	Acenaphthylene	1	5.0	0.050	5.0	U
120-12-7	Anthracene	1	0.041	0.018	5.0	J
56-55-3	Benzo(a)anthracene	1	0.12	0.026	1.0	J
50-32-8	Benzo(a)pyrene	1	0.071	0.040	1.0	J
205-99-2	Benzo(b)fluoranthene	1	0.18	0.071	1.0	J
207-08-9	Benzo(k)fluoranthene	1	0.19	0.031	1.0	J
191-24-2	Benzo(g,h,i)perylene	1	0.11	0.026	1.0	J
218-01-9	Chrysene	1	0.16	0.031	1.0	J
53-70-3	Dibenz(a,h)anthracene	1	0.071	0.034	2.0	J
206-44-0	Fluoranthene	1	0.13	0.017	1.0	J
86-73-7	Fluorene	1	5.0	0.022	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.11	0.024	2.0	J
91-57-6	2-Methylnaphthalene	1	0.061	0.024	5.0	J
91-20-3	Naphthalene	1	5.0	0.050	5.0	U
85-01-8	Phenanthrene	1	0.092	0.024	2.0	J
129-00-0	Pyrene	1	0.20	0.025	5.0	J

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Nitrobenzene-d5	10.2	5.19	51	31 - 123	
2-Fluorobiphenyl	10.2	6.70	66	25 - 113	
o-Terphenyl	10.3	8.16	79	42 - 125	

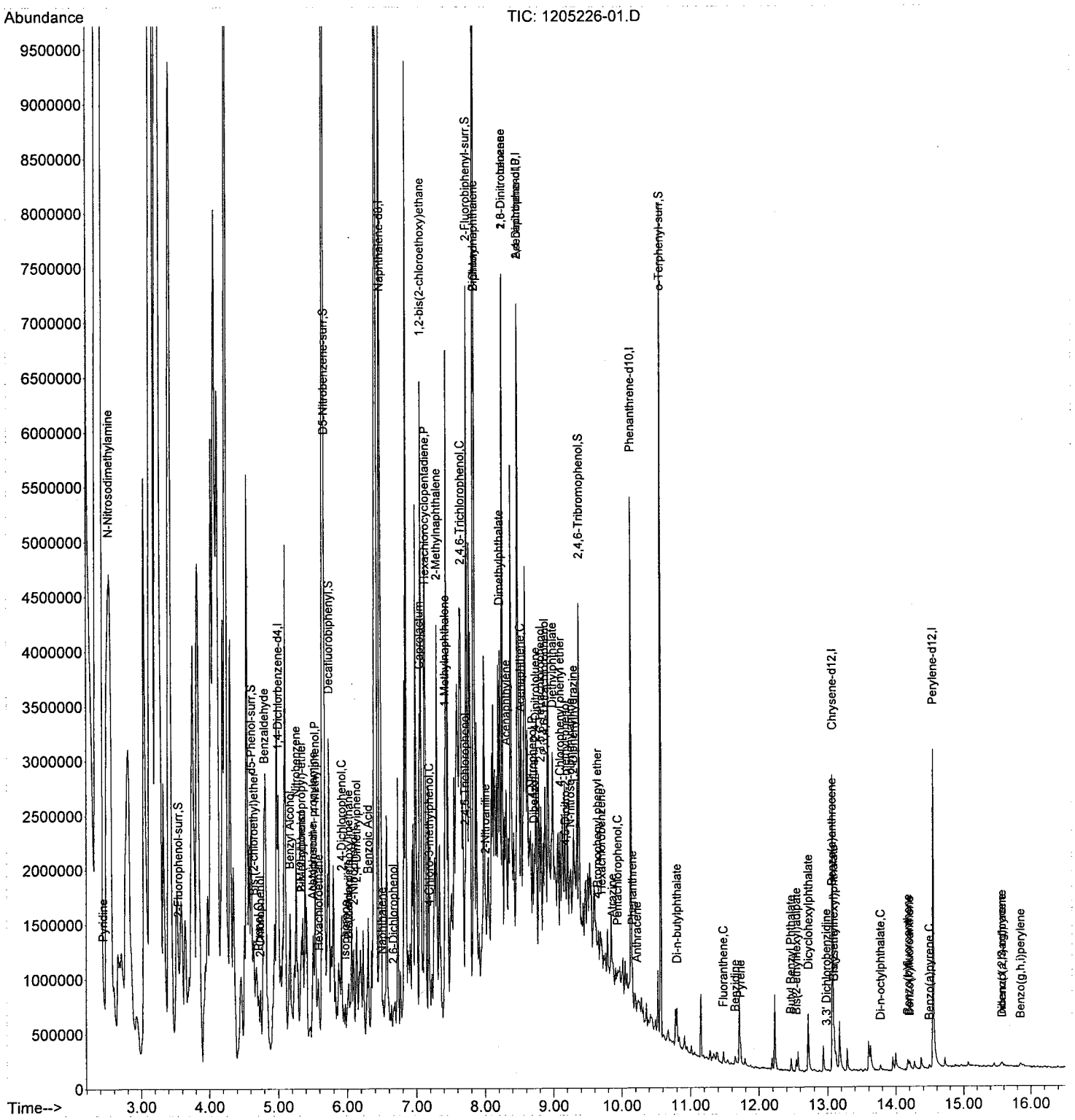
Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
1,4-Dichlorobenzene-d4	460049	5	362232	5.24	
Naphthalene-d8	2197256	6.48	1571264	6.72	
Acenaphthene-d10	1162128	8.48	900280	8.72	
Phenanthrene-d10	1812524	10.14	1451803	10.38	
Chrysene-d12	1157599	13.07	888866	13.33	
Perylene-d12	1317510	14.55	1051882	14.81	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



00779

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.00	152	460049	5.00 ug/l	0.00 127.00%
21) Naphthalene-d8	6.48	136	2197256	5.00 ug/l	0.00 139.84%
42) Acenaphthene-d10	8.48	164	1162128	5.00 ug/l	0.00 129.09%
65) Phenanthrene-d10	10.14	188	1812524	5.00 ug/l	0.00 124.85%
79) Chrysene-d12	13.07	240	1157599	5.00 ug/l	0.00 130.23%
90) Perylene-d12	14.55	264	1317510	5.00 ug/l	0.00 125.25%
System Monitoring Compounds					
4) 2-Fluorophenol-surr	3.55	112	746624	6.91 ug/l	0.02
5) d5-Phenol-surr	4.60	99	631420	4.63 ug/l	0.01
19) Decafluorobiphenyl	5.74	334	646887	6.49 ug/l	0.00
22) D5-Nitrobenzene-surr	5.68	128	313823	5.09 ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.74	172	1645178	6.57 ug/l	0.00
64) 2,4,6-Tribromophenol	9.38	330	378934	14.16 ug/l	0.00
76) o-Terphenyl-surr	10.57	230	1339599	8.00 ug/l	0.00
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	2.52	74	353557	5.05 ug/l	97
3) Pyridine	2.45	79	2313	0.02 ug/l #	34
6) Phenol	4.71	94	5978	0.04 ug/l	94
7) Bis (2-chloroethyl)ether	4.64	93	11375	0.09 ug/l #	57
8) 2-Chlorophenol	4.73	128	3943	0.03 ug/l #	43
9) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
10) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
11) Benzaldehyde	4.80	105	22080	19.17 ug/l #	57
12) Benzyl Alcohol	5.17	108	2936	0.04 ug/l #	1
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
14) 2-Methylphenol	5.33	108	24757	0.22 ug/l #	76
15) Bis-(2-chloroisopropyl)-et	5.34	45	16363	0.10 ug/l #	1
16) Acetophenone	5.49	105	15246	0.10 ug/l	98
17) 4-Methylphenol	5.53	107	17661	0.15 ug/l #	66
18) N-Nitrosodi-n-propylamine	5.51	70	9588	0.13 ug/l #	1
20) Hexachloroethane	5.59	117	24205	0.48 ug/l #	15
23) Nitrobenzene	5.26	77	7041	0.06 ug/l	92
24) Isophorone	5.97	82	84455	0.35 ug/l #	86
25) 2-Chloroaniline	6.02	127	44211	0.28 ug/l #	100
26) 2-Nitrophenol	6.09	139	12821	0.17 ug/l #	1
27) 2,4-Dimethylphenol	6.14	107	203696	1.65 ug/l	89
28) Benzoic Acid	6.30	105	229295	3.79 ug/l #	52
29) Bis(2-chloroethoxy)methane	6.02	93	5443	0.04 ug/l	86
30) 2,4-Dichlorophenol	5.91	162	4809	0.05 ug/l #	1
31) 1,2,4-Trichlorobenzene	6.43	180	1203	N.D.	
32) Naphthalene	6.51	128	7321	0.02 ug/l #	74
33) 4-Chloroaniline	6.62	127	5617	Below Cal #	1
34) 2,6-Dichlorophenol	6.66	162	1782	0.02 ug/l #	1

00780

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	0.00	225	0	N.D.	
36) Caprolactum	7.04	55	51068	1.19 ug/l #	22
37) 1,2-bis(2-chloroethoxy)eth	7.06	63	70392	0.62 ug/l #	83
38) 4-Chloro-3-methylphenol	7.20	107	16859	0.17 ug/l #	1
39) 2-Methylnaphthalene	7.31	142	16186	0.06 ug/l #	1
40) 1-Methylnaphthalene	7.42	142	78266	0.30 ug/l #	1
41) 1,3-Dinitrobenzene	8.26	168	1575	0.61 ug/l	100
43) Hexachlorocyclopentadiene	7.14	237	2891	0.05 ug/l #	83
44) 1,2,4,5-Tetrachlorobenze	0.00	216	0	N.D.	
45) 2,4,6-Trichlorophenol	7.65	196	1886	0.03 ug/l #	1
46) 2,4,5-Trichlorophenol	7.71	198	4059	0.06 ug/l #	1
48) 2-Chloronaphthalene	7.86	162	2626	0.01 ug/l #	39
49) Biphenyl	7.85	154	9311	0.03 ug/l #	1
50) 2-Nitroaniline	8.02	138	9898	0.15 ug/l #	18
51) Dimethylphthalate	8.21	163	33220	0.13 ug/l #	1
52) 2,6-Dinitrotoluene	8.27	165	5285	0.09 ug/l #	1
53) Acenaphthylene	8.32	152	4886	0.01 ug/l #	1
54) Acenaphthene	8.52	154	5766	0.03 ug/l #	54
55) 4-Nitrophenol	8.70	65	4426	0.76 ug/l #	1
56) 2,4-Dinitrotoluene	8.74	165	8833	0.13 ug/l	97
57) 2,4-Dinitrophenol	8.48	184	1265	1.37 ug/l #	1
58) Dibenzofuran	8.71	168	6918	0.02 ug/l #	1
59) 2,3,5,6-Tetrachlorophenol	8.83	232	3633	0.07 ug/l #	1
60) 2,3,4,6-Tetrachlorophenol	8.87	232	5366	0.10 ug/l #	1
61) Diethylphthalate	9.00	149	208106	0.73 ug/l	91
62) 4-Chlorophenyl phenyl ethe	9.10	204	5771	0.05 ug/l #	1
63) Fluorene	9.10	166	1626	N.D.	
66) 4,6-Dinitro-2-methyl-pheno	9.19	198	1771	0.73 ug/l #	1
67) 1,2-Diphenylhydrazine	9.30	77	196499	0.95 ug/l #	1
68) N-nitroso-diphenylamine	9.24	169	7297	0.04 ug/l #	71
69) 4-Bromophenyl phenyl ether	9.65	248	2820	0.05 ug/l #	1
70) Hexachlorobenzene	9.71	284	1064	0.02 ug/l #	22
71) Atrazine	9.87	200	11841	0.22 ug/l #	74
72) Pentachlorophenol	9.94	266	13815	0.94 ug/l	93
73) Phenanthrene	10.16	178	28329	0.09 ug/l #	31
74) Anthracene	10.22	178	13983	0.04 ug/l #	47
75) Carbazole	10.42	167	38389	Below Cal #	57
77) Di-n-butylphthalate	10.80	149	126488	0.39 ug/l #	94
78) Fluoranthene	11.48	202	41898	0.13 ug/l	97
80) Benzidine	11.65	184	1465	0.02 ug/l #	1
81) Pyrene	11.73	202	69662	0.20 ug/l	96
82) Butyl Benzyl Phthalate	12.46	149	28227	0.21 ug/l	87
83) Bis(2-ethylhexyl)adipate	12.55	129	21682	0.18 ug/l #	75
84) Bis(2-ethylhexyl)phthalate	13.09	149	43858	0.26 ug/l	99
85) Dicyclohexylphthalate	12.72	149	7938	0.03 ug/l	97
86) 3,3' Dichlorobenzidine	12.98	252	1496	0.02 ug/l #	67
87) Benzo(a)anthracene	13.06	228	34942	0.12 ug/l #	85
88) Chrysene	13.10	228	48304	0.16 ug/l	95
89) Di-n-octylphthalate	13.77	149	38716	0.75 ug/l #	100
91) Benzo(b)fluoroanthene	14.18	252	46995	0.18 ug/l #	90
92) Benzo(k)fluoroanthene	14.20	252	54250	0.19 ug/l	97
93) Benzo(a)pyrene	14.49	252	18218	0.07 ug/l #	79

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

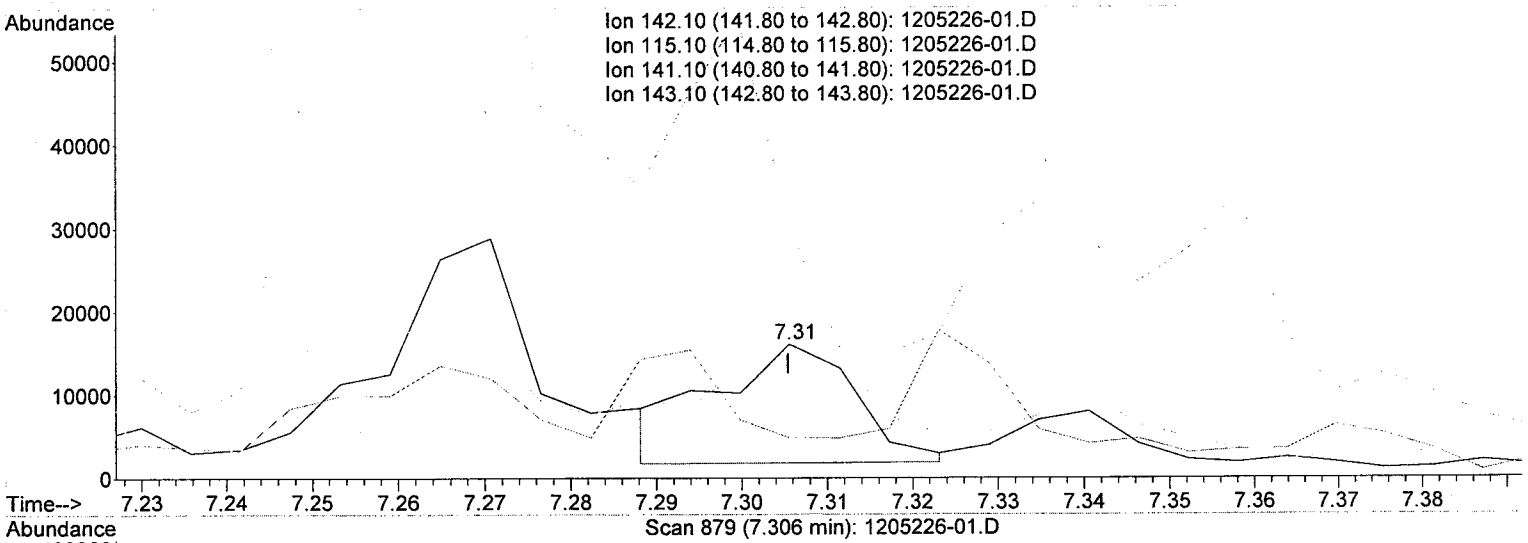
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.57	276	27549	0.11 ug/l	98
95) Dibenzo(a,h)anthracene	15.58	278	15402	0.07 ug/l #	76
96) Benzo(g,h,i)perylene	15.84	276	26213	0.11 ug/l	93

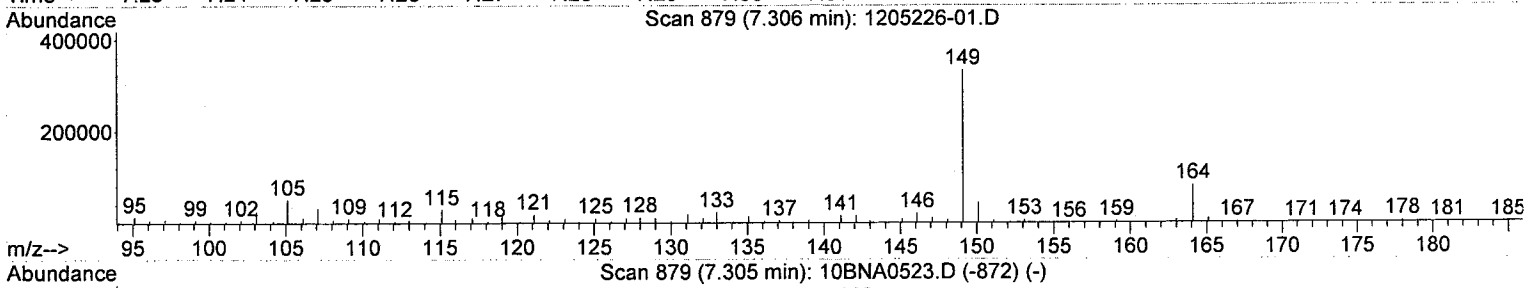
(#) = qualifier out of range (m) = manual integration (+) = signals summed

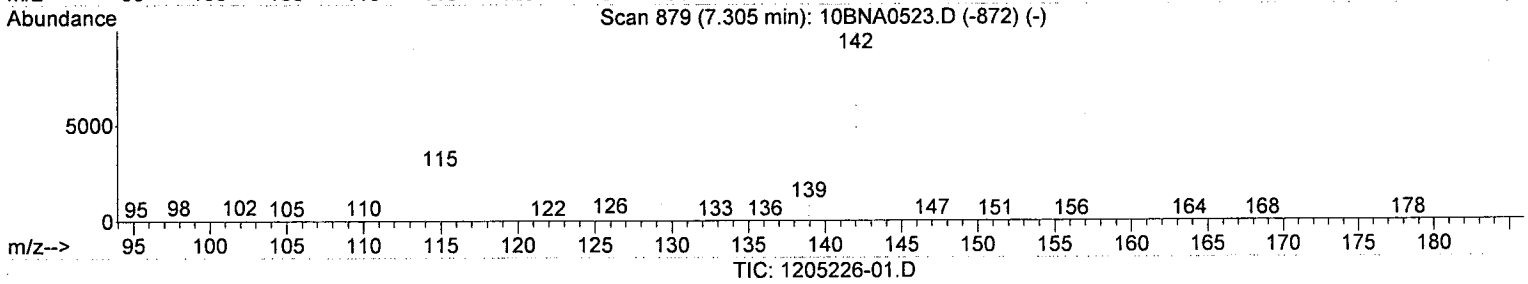
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration







TIC: 1205226-01.D

(39) 2-Methylnaphthalene

7.31min (+0.000) 0.06ug/l

response 16186

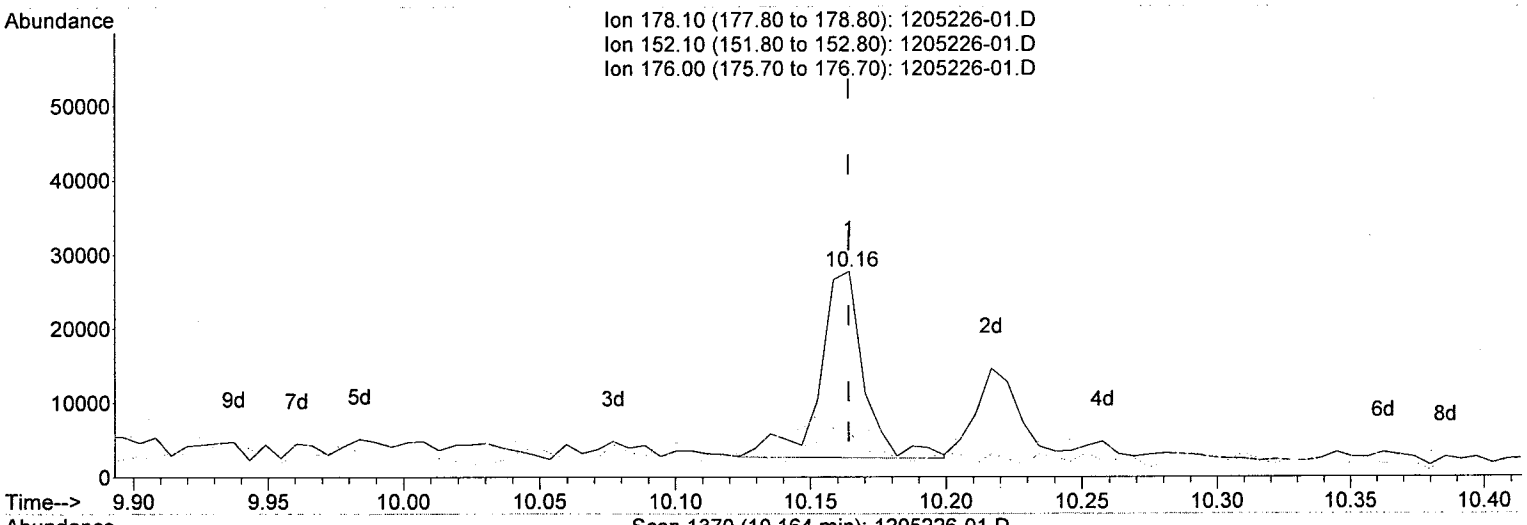
Ion	Exp%	Act%
142.10	100	100
115.10	33.30	221.99#
141.10	83.70	64.69#
143.10	11.60	47.84#

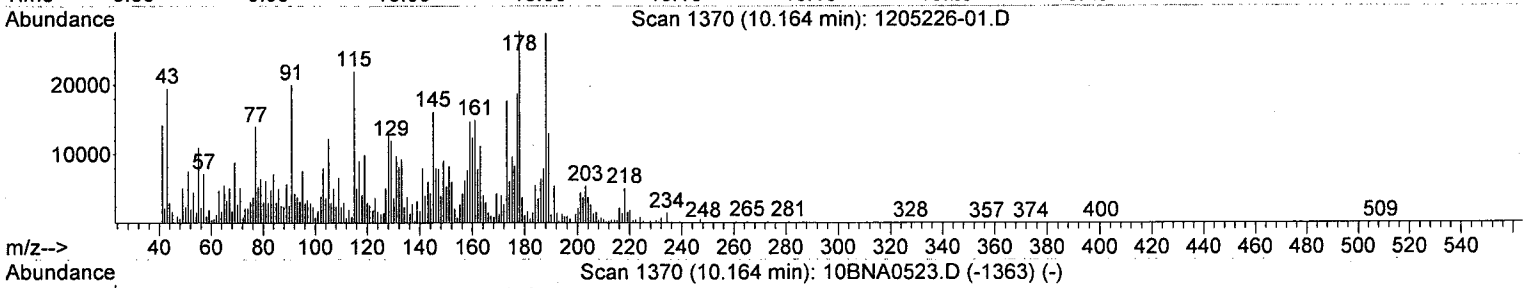
00783

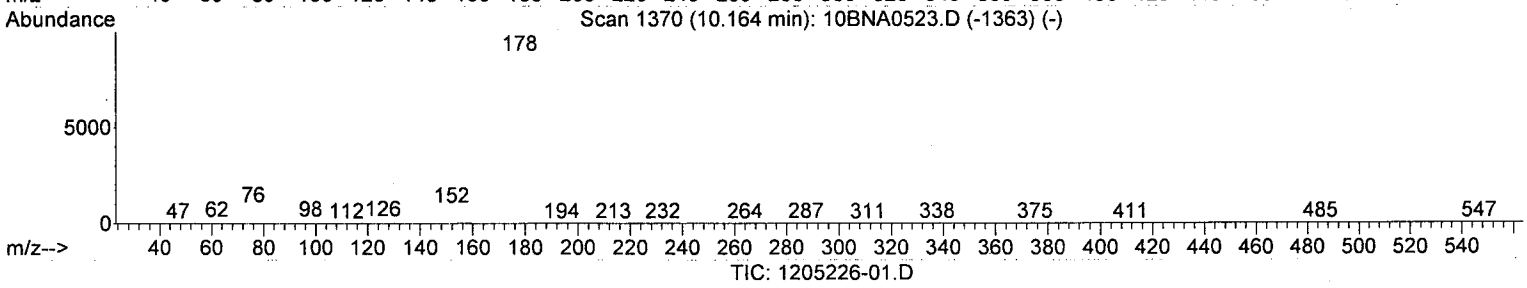
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration







TIC: 1205226-01.D

(73) Phenanthrene

10.16min (+0.000) 0.09ug/l

response 28329

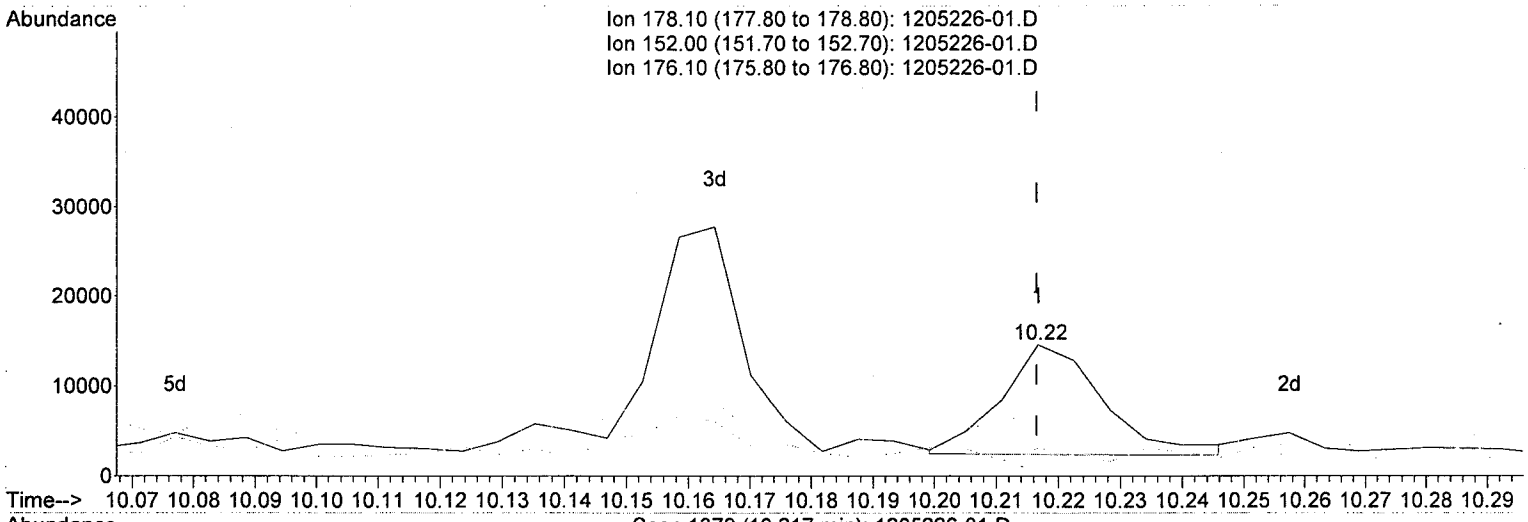
Ion	Exp%	Act%
178.10	100	100
152.10	9.40	25.80#
176.00	18.70	55.15#
0.00	0.00	0.00

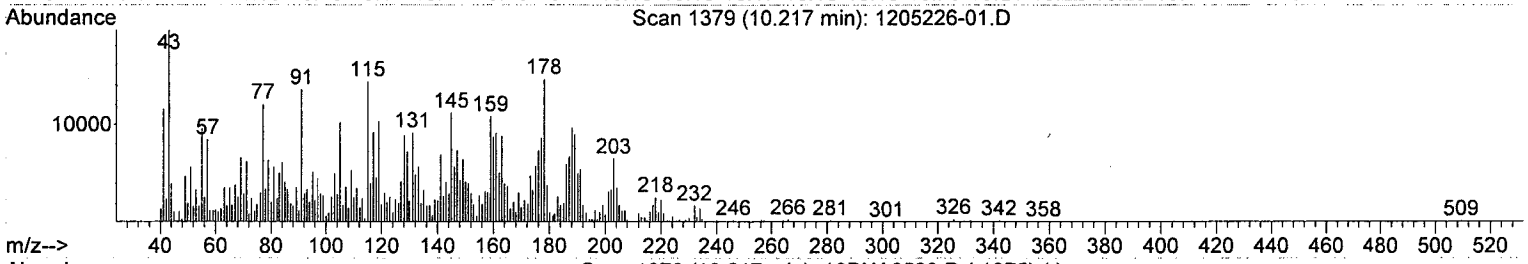
00784

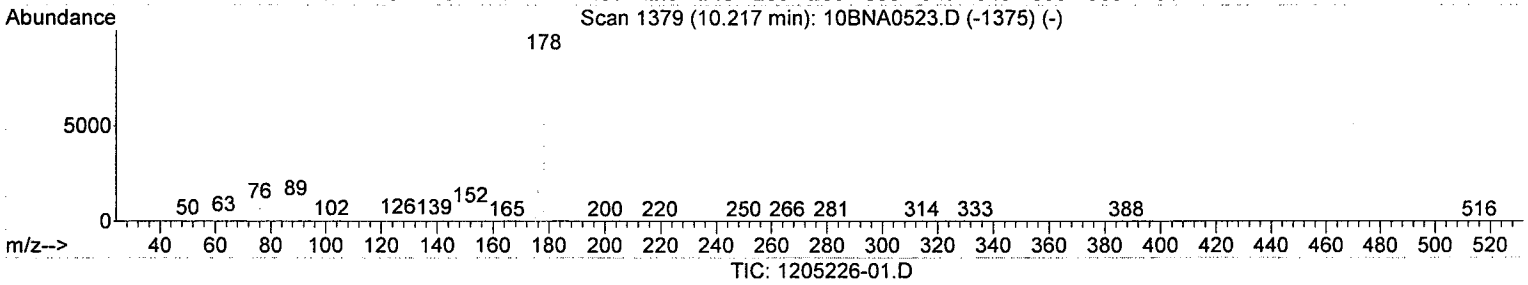
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration







(74) Anthracene

10.22min (+0.000) 0.04ug/l

response 13983

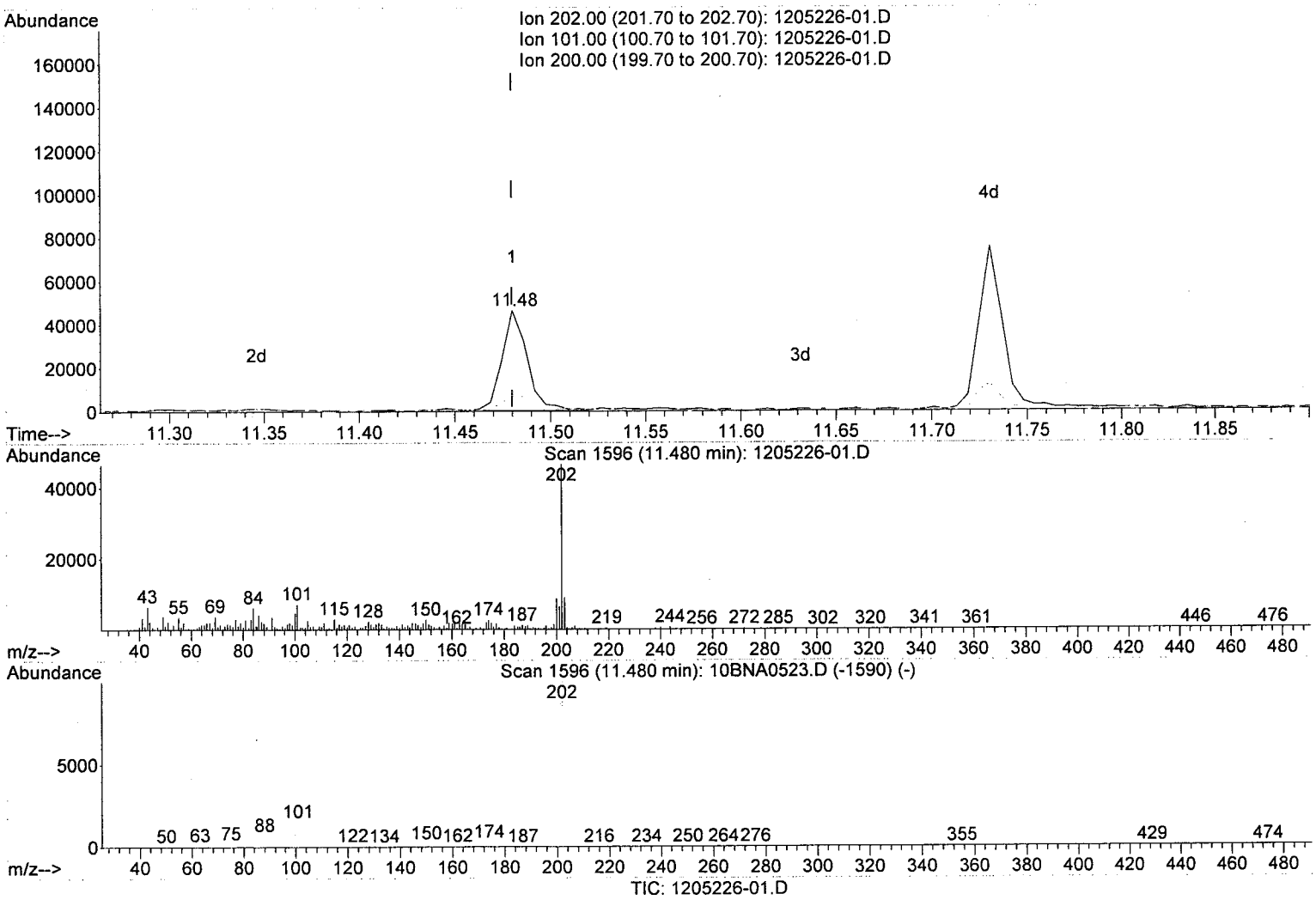
Ion	Exp%	Act%
178.10	100	100
152.00	7.70	17.95#
176.10	18.20	46.23#
0.00	0.00	0.00

00785

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1205226-01.D

(78) Fluoranthene (C)

11.48min (+0.000) 0.13ug/l

response 41898

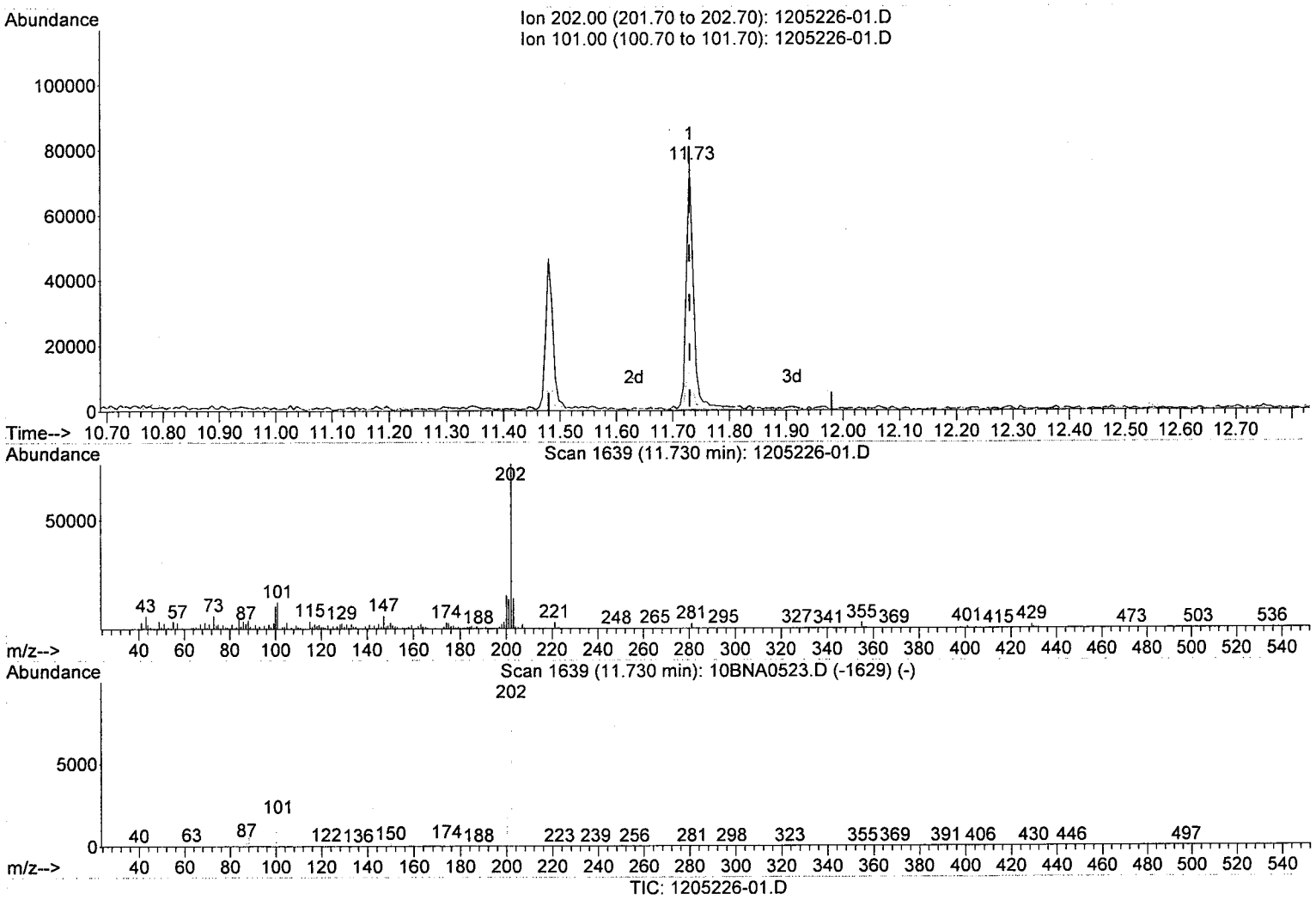
Ion	Exp%	Act%
202.00	100	100
101.00	16.20	16.00
200.00	20.20	22.47
0.00	0.00	0.00

00786

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(81) Pyrene

11.73min (+0.000) 0.20ug/l

response 69662

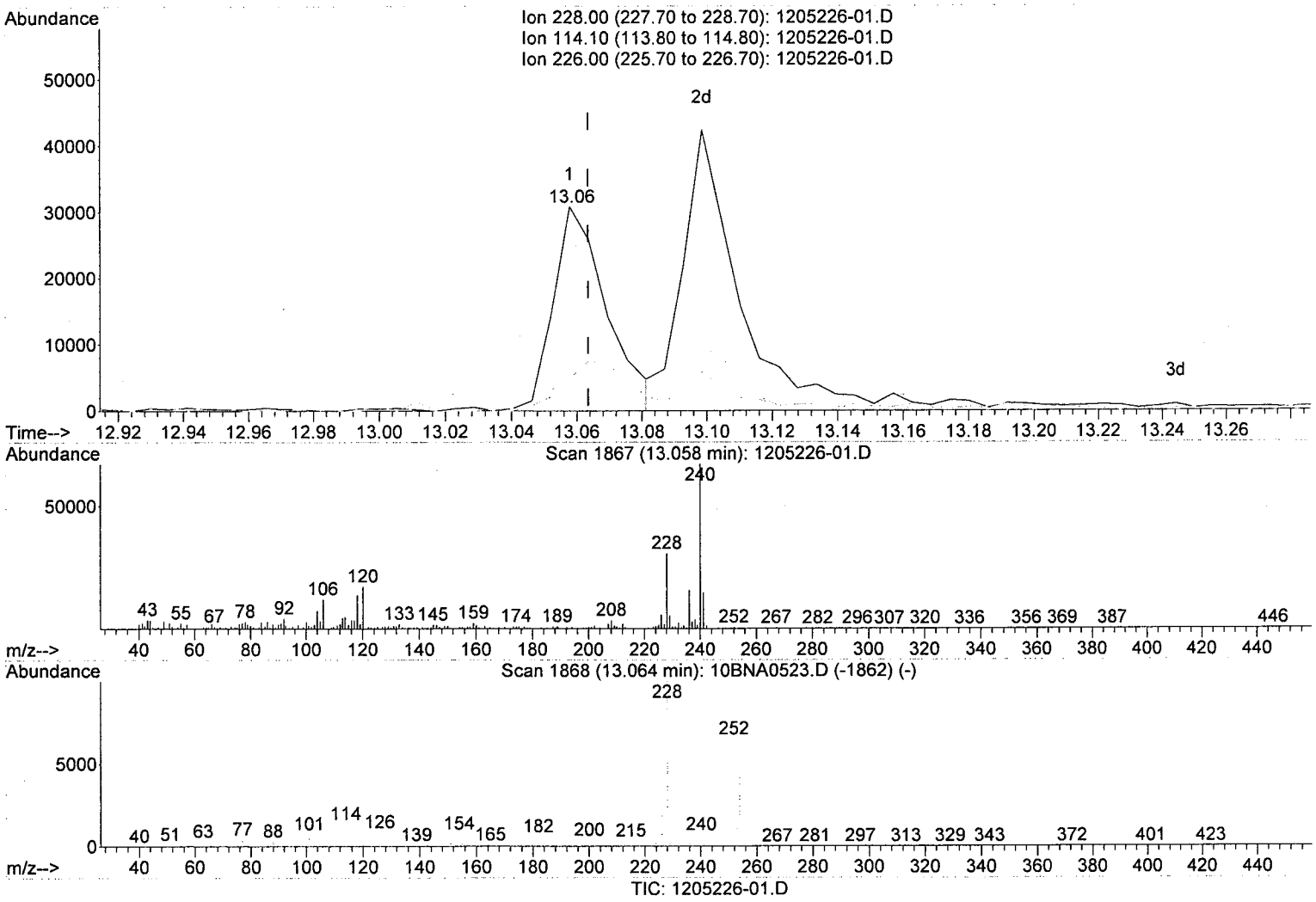
Ion	Exp%	Act%
202.00	100	100
101.00	16.20	18.02
0.00	0.00	0.00
0.00	0.00	0.00

00787

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1205226-01.D

(87) Benzo(a)anthracene

13.06min (-0.006) 0.12ug/l

response 34942

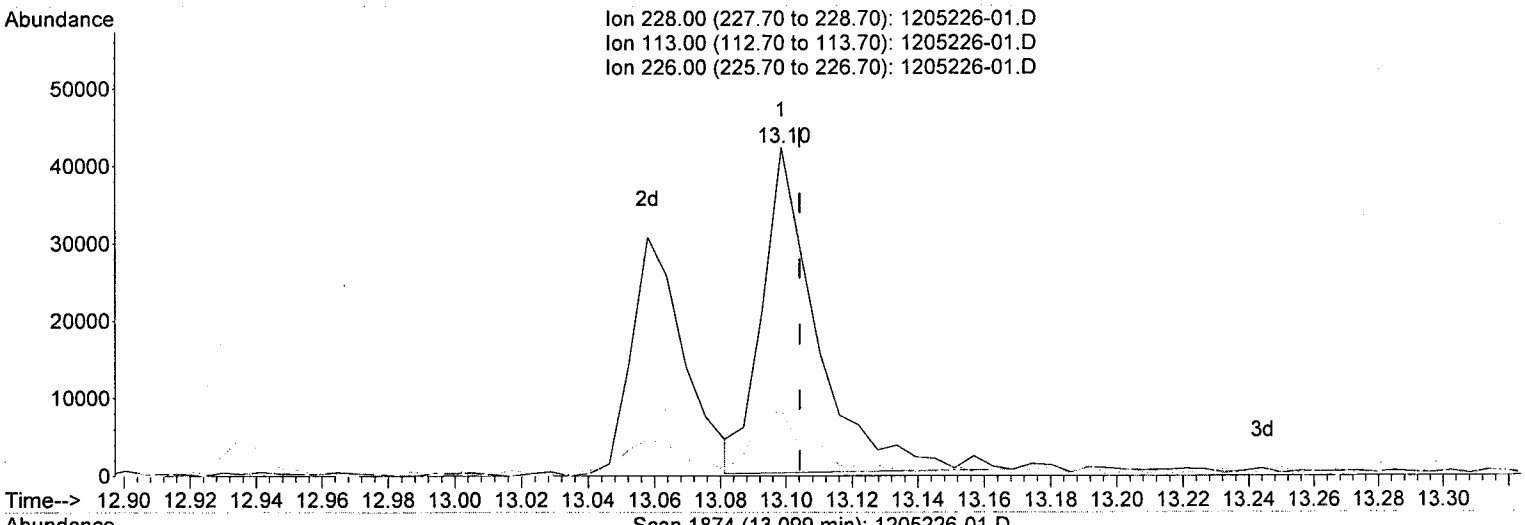
Ion	Exp%	Act%
228.00	100	100
114.10	15.50	30.57#
226.00	26.60	25.10
0.00	0.00	0.00

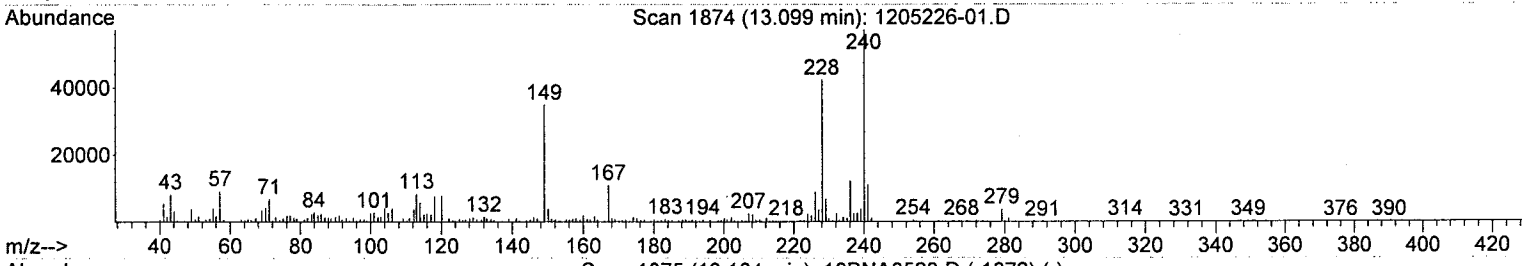
00788

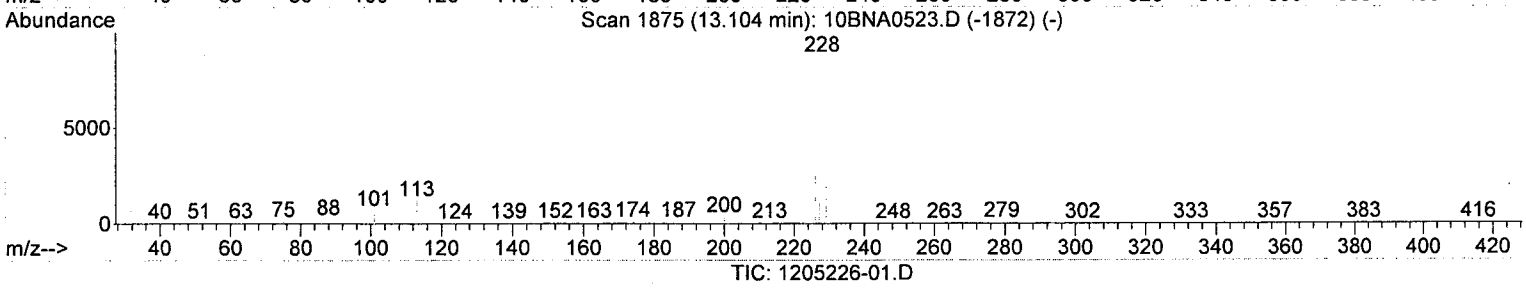
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration







TIC: 1205226-01.D

(88) Chrysene

13.10min (-0.006) 0.16ug/l

response 48304

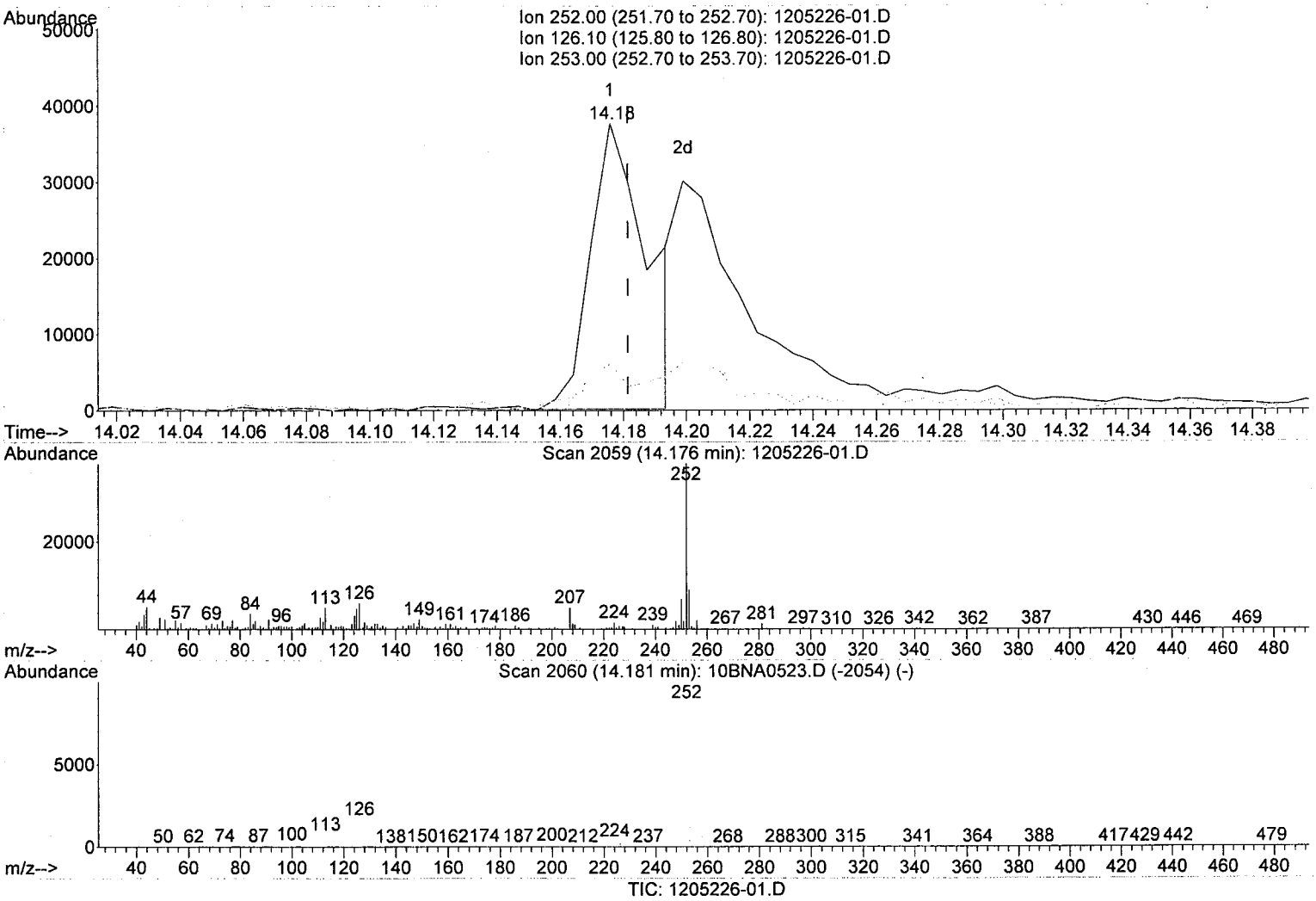
Ion	Exp%	Act%
228.00	100	100
113.00	22.00	21.97
226.00	28.80	23.89
0.00	0.00	0.00

00789

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1205226-01.D

(91) Benzo(b)fluoroanthene

14.18min (-0.006) 0.18ug/l

response 46995

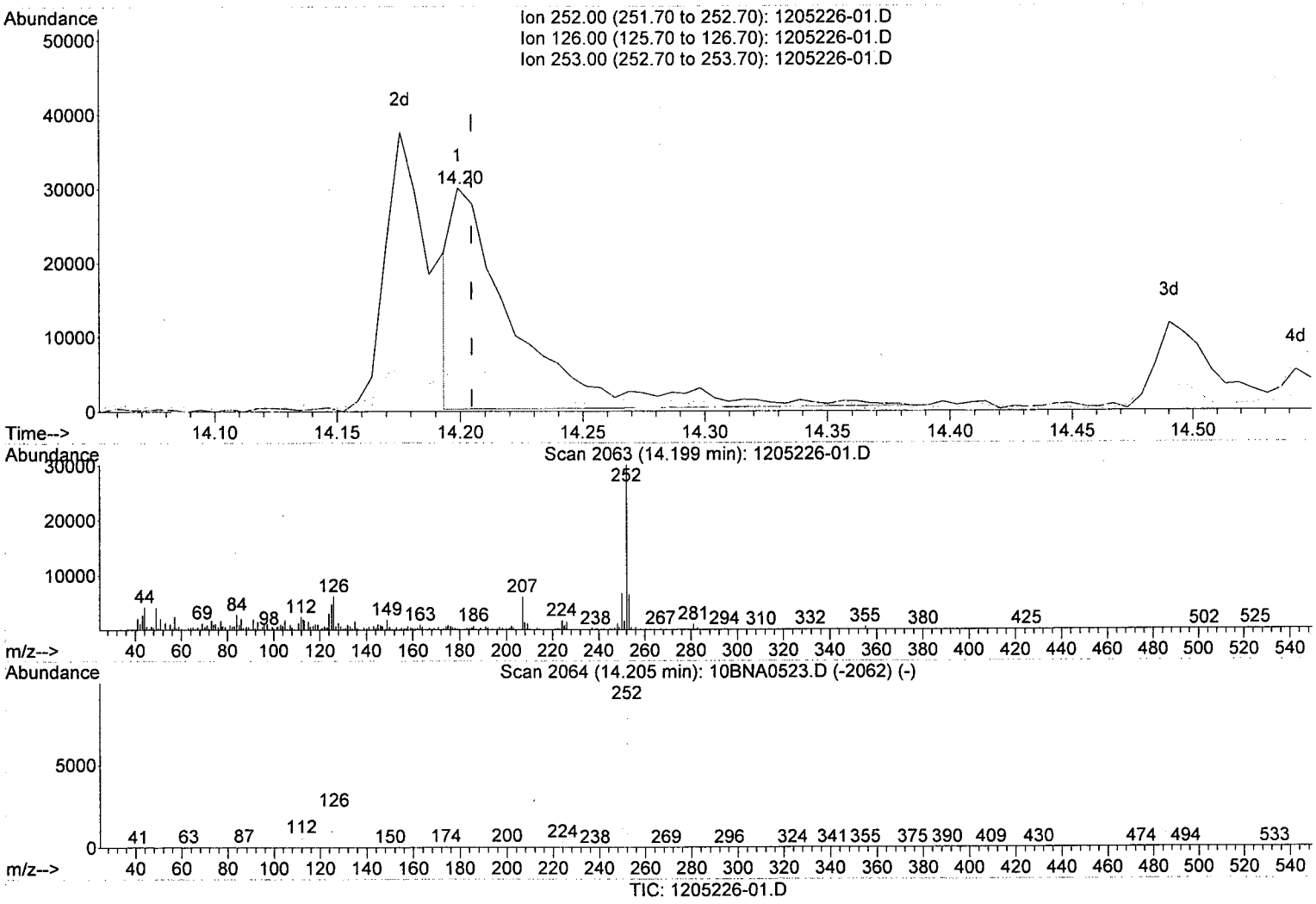
Ion	Exp%	Act%
252.00	100	100
126.10	16.70	13.68
253.00	22.30	16.76#
0.00	0.00	0.00

00790

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1205226-01.D

(92) Benzo(k)fluoroanthene

14.20min (-0.006) 0.19ug/l

response 54250

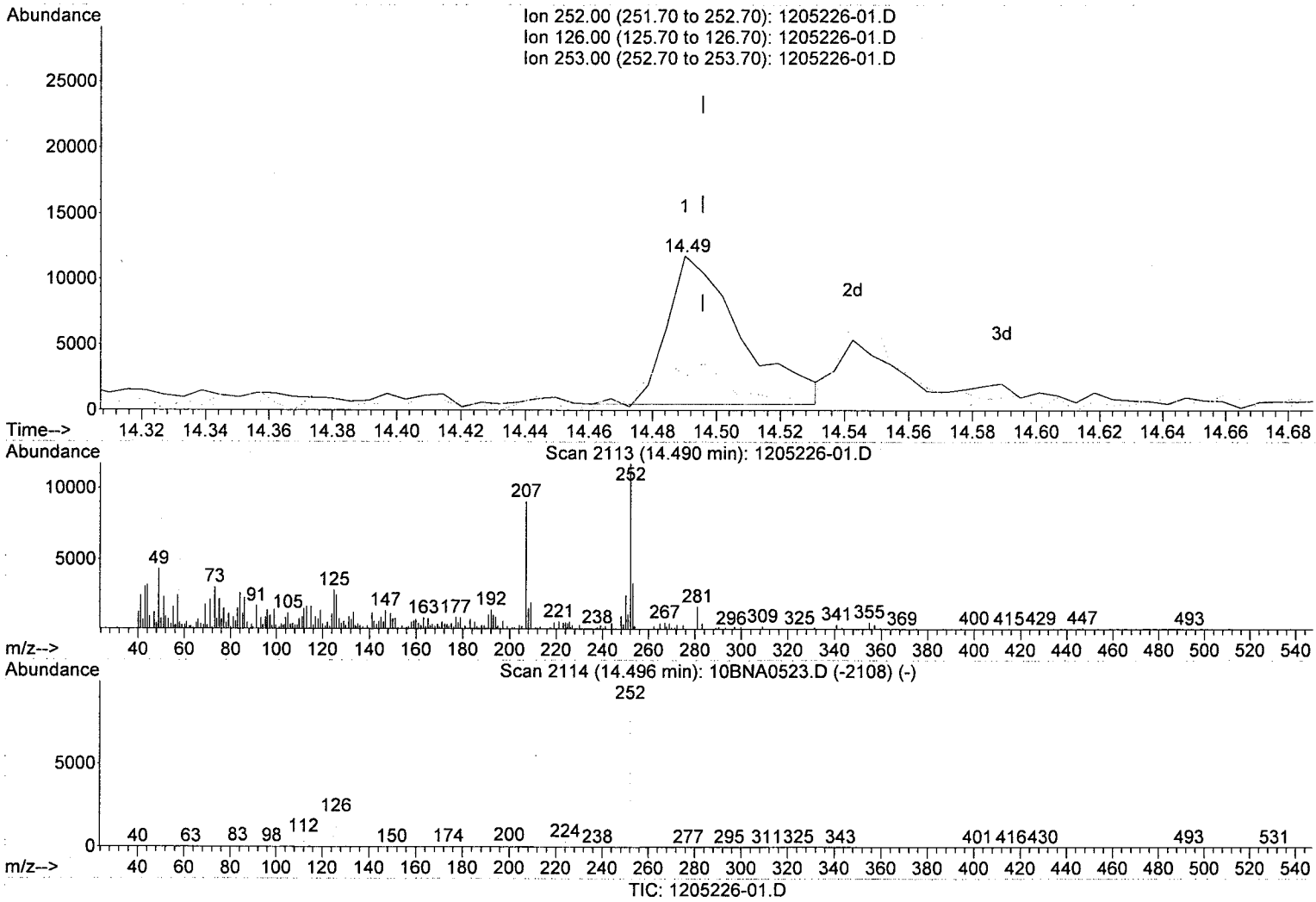
Ion	Exp%	Act%
252.00	100	100
126.00	20.30	17.83
253.00	22.20	21.54
0.00	0.00	0.00

00791

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(93) Benzo(a)pyrene (C)

14.49min (-0.006) 0.07ug/l

response 18218

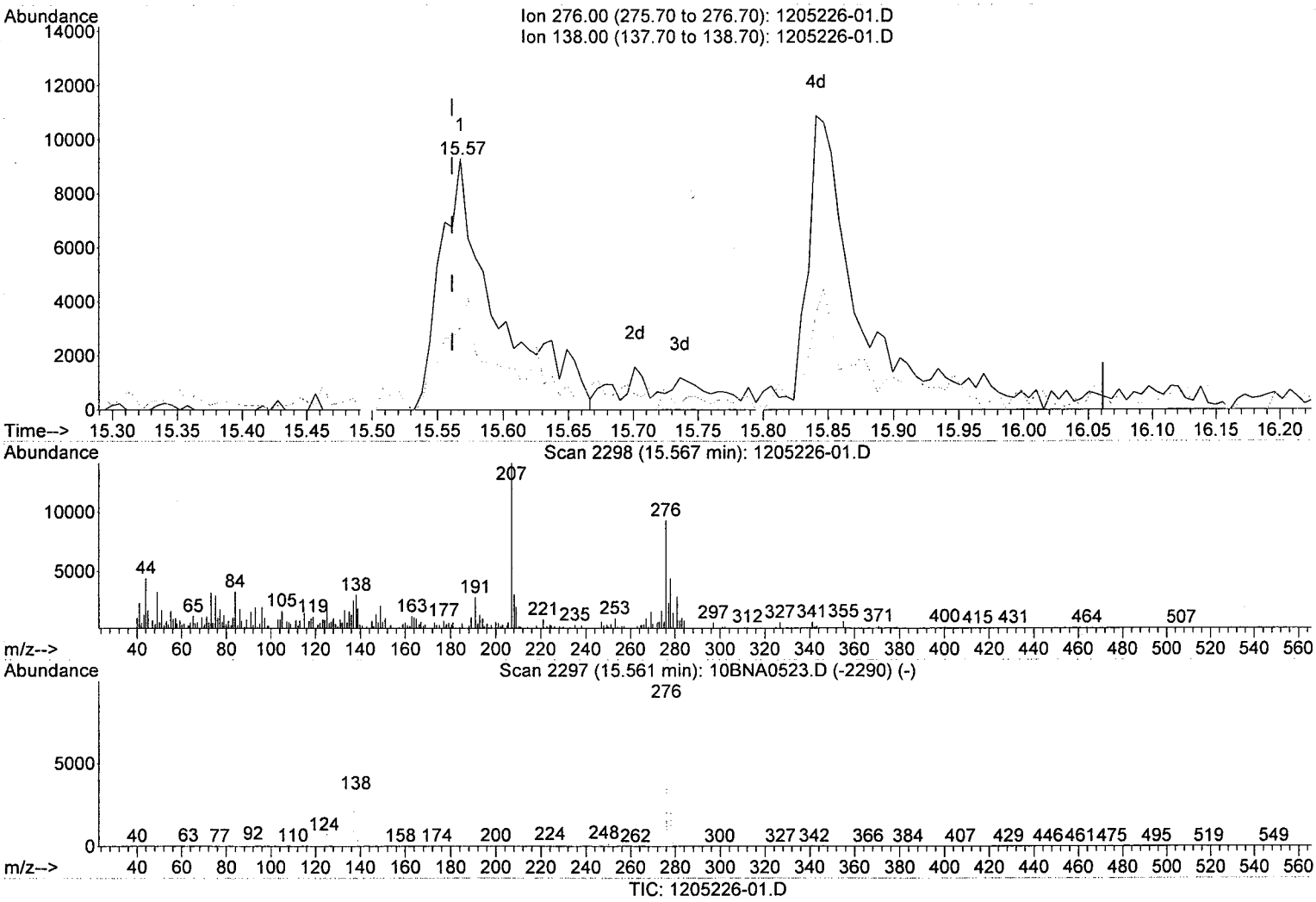
Ion	Exp%	Act%
252.00	100	100
126.00	18.60	33.72#
253.00	22.10	26.57#
0.00	0.00	0.00

00792

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(94) Indeno(1,2,3-cg)pyrene

15.57min (+0.006) 0.11ug/l

response 27549

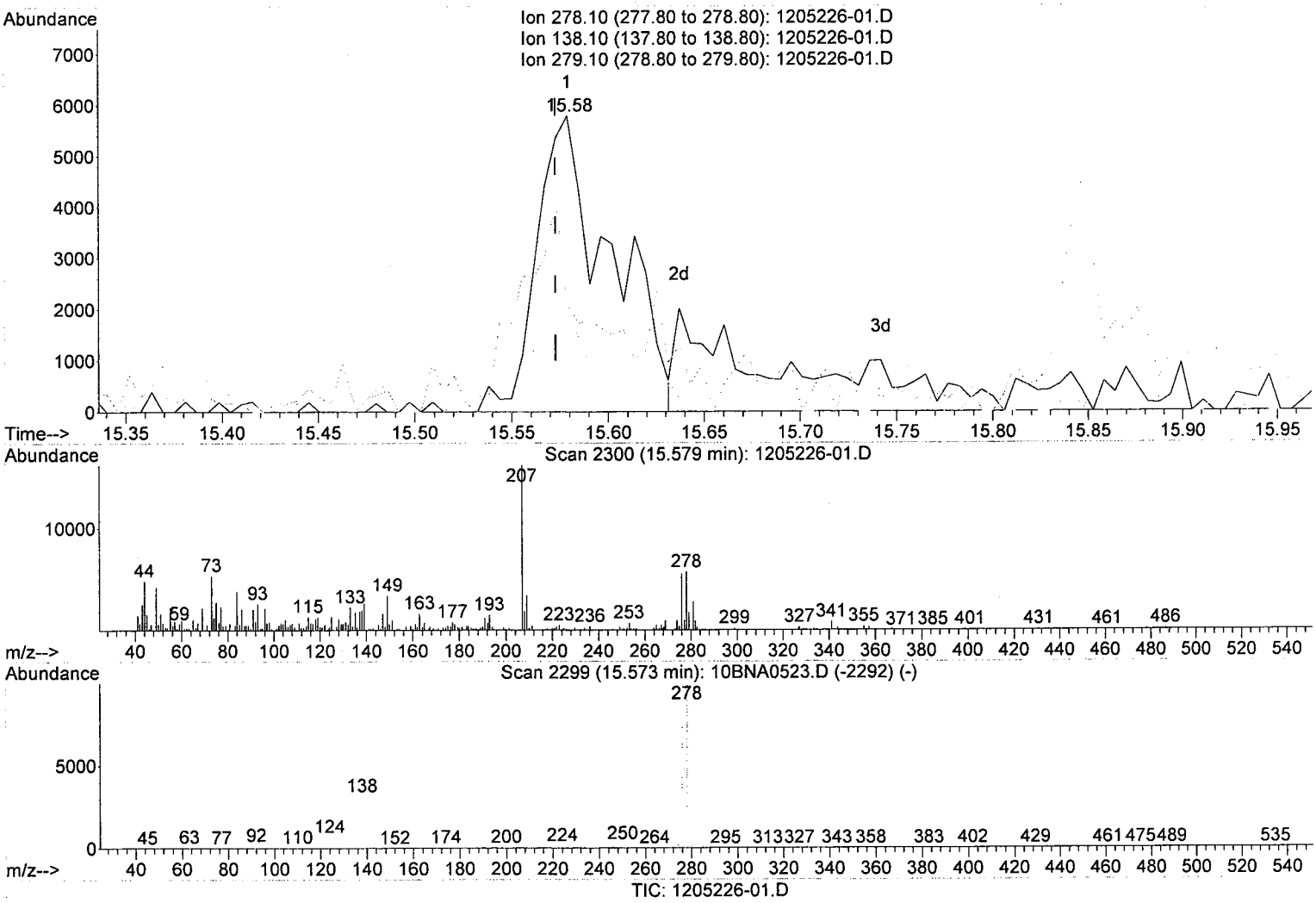
Ion	Exp%	Act%
276.00	100	100
138.00	33.60	34.78
0.00	0.00	0.00
0.00	0.00	0.00

00793

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(95) Dibenzo(a,h)anthracene

15.58min (+0.006) 0.07ug/l

response 15402

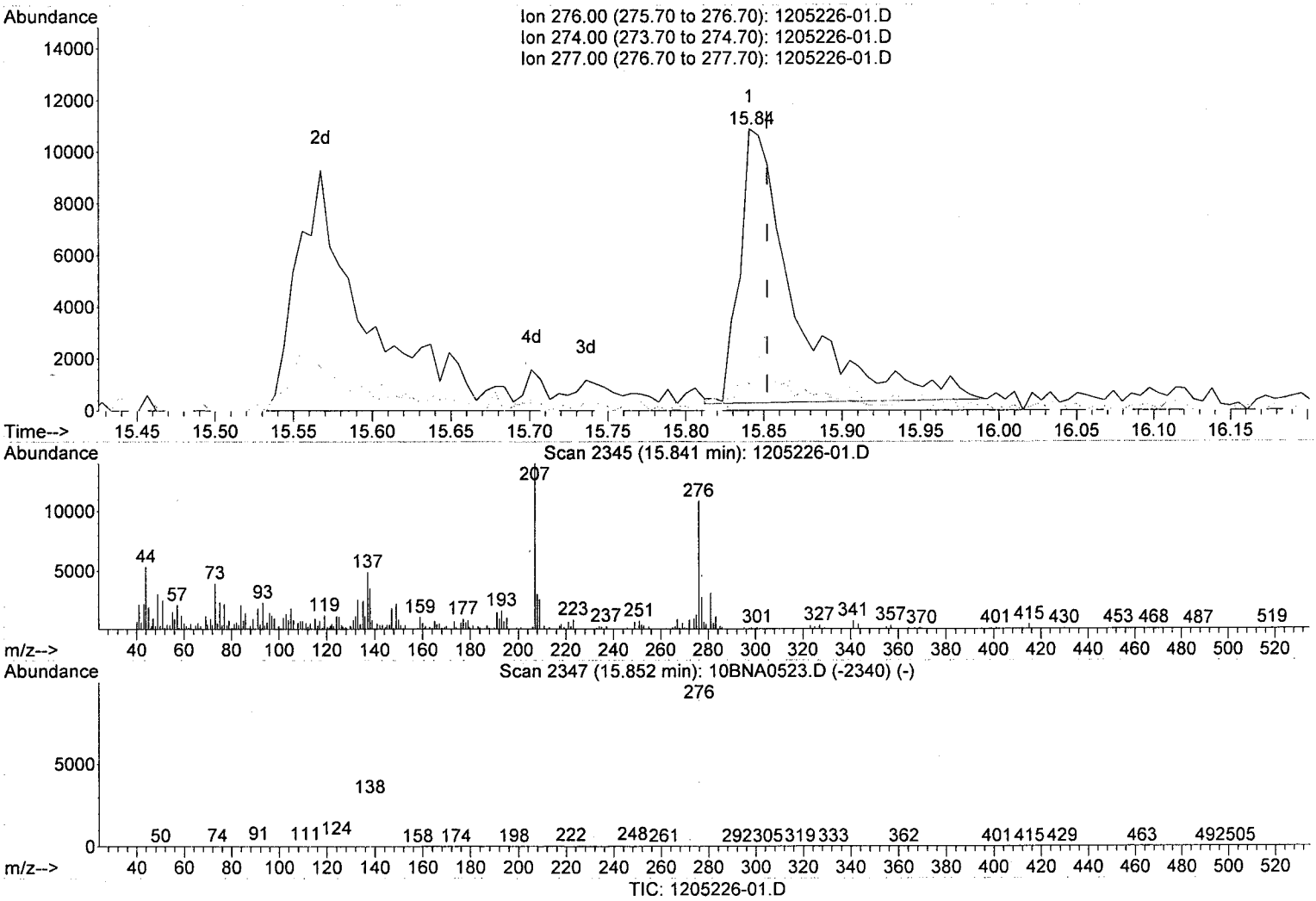
Ion	Exp%	Act%
278.10	100	100
138.10	40.30	62.21#
279.10	24.00	21.48
0.00	0.00	0.00

00794

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-01.D
Acq On : 23 May 2012 14:01
Operator : DMC
Sample : 1205226-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 14:43:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1205226-01.D

(96) Benzo(g,h,i)perylene

15.84min (-0.011) 0.11ug/l

response 26213

Ion	Exp%	Act%
276.00	100	100
274.00	21.30	17.72
277.00	24.20	27.18
0.00	0.00	0.00

00795

ORGANIC ANALYSIS DATA SHEET
USEPA-8270C

106191

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050712

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205226-02 File ID: 1205226-02.D

Sampled: 05/09/12 13:00 Prepared: 05/15/12 07:59 Analyzed: 05/23/12 14:27

Solids: Preparation: 3510C Liquid-Liquid Ext Initial/Final: 970 mL / 1 mL

QC Batch: 1206145 Sequence: 2E23055 Calibration: 2E23023 Instrument: 195

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
83-32-9	Acenaphthene	1	5.0	0.050	5.0	U
208-96-8	Acenaphthylene	1	5.0	0.050	5.0	U
120-12-7	Anthracene	1	5.0	0.018	5.0	U
56-55-3	Benzo(a)anthracene	1	0.031	0.026	1.0	J
50-32-8	Benzo(a)pyrene	1	1.0	0.040	1.0	U
205-99-2	Benzo(b)fluoranthene	1	1.0	0.071	1.0	U
207-08-9	Benzo(k)fluoranthene	1	0.041	0.031	1.0	J
191-24-2	Benzo(g,h,i)perylene	1	1.0	0.026	1.0	U
218-01-9	Chrysene	1	1.0	0.031	1.0	U
53-70-3	Dibenz(a,h)anthracene	1	2.0	0.034	2.0	U
206-44-0	Fluoranthene	1	1.0	0.017	1.0	U
86-73-7	Fluorene	1	5.0	0.022	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	2.0	0.024	2.0	U
91-57-6	2-Methylnaphthalene	1	0.052	0.024	5.0	J
91-20-3	Naphthalene	1	5.0	0.050	5.0	U
85-01-8	Phenanthrene	1	2.0	0.024	2.0	U
129-00-0	Pyrene	1	0.031	0.025	5.0	J

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Nitrobenzene-d5	10.3	5.51	53	31 - 123	
2-Fluorobiphenyl	10.3	5.49	53	25 - 113	
o-Terphenyl	10.4	7.35	71	42 - 125	

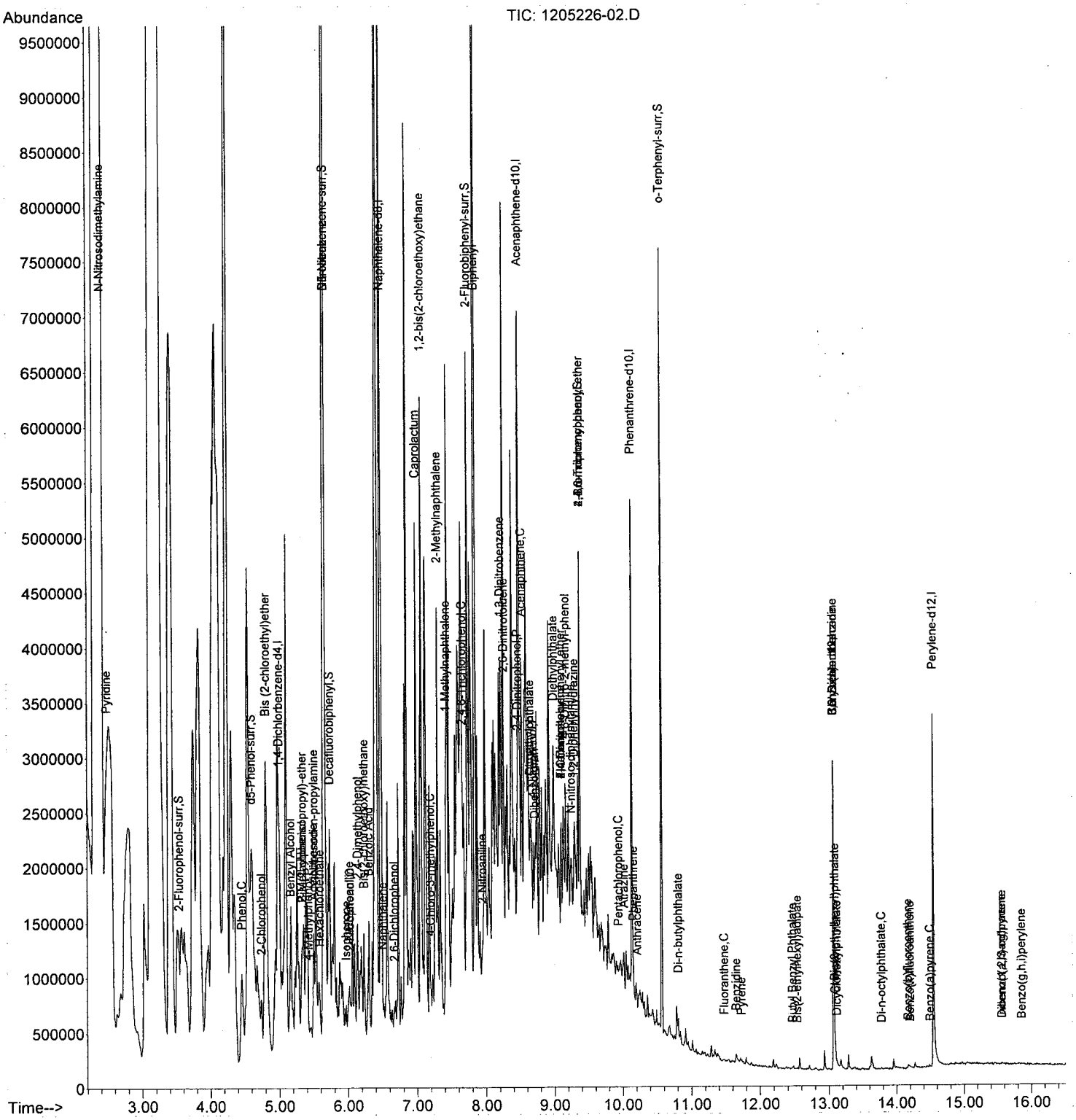
Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
1,4-Dichlorobenzene-d4	444442	5	362232	5.24	
Naphthalene-d8	2189081	6.48	1571264	6.72	
Acenaphthene-d10	1189781	8.49	900280	8.72	
Phenanthrene-d10	1905229	10.14	1451803	10.38	
Chrysene-d12	1215004	13.07	888866	13.33	
Perylene-d12	1378101	14.55	1051882	14.81	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



00797

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.00	152	444442	5.00	ug/l	0.00 122.70%
21) Naphthalene-d8	6.48	136	2189081	5.00	ug/l	0.00 139.32%
42) Acenaphthene-d10	8.49	164	1189781	5.00	ug/l	0.00 132.16%
65) Phenanthrene-d10	10.14	188	1905229	5.00	ug/l	0.00 131.23%
79) Chrysene-d12	13.07	240	1215004	5.00	ug/l	0.00 136.69%
90) Perylene-d12	14.55	264	1378101	5.00	ug/l	0.00 131.01%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.54	112	843999	8.08	ug/l	0.02
5) d5-Phenol-surr	4.60	99	729054	5.53	ug/l	0.01
19) Decafluorobiphenyl	5.74	334	425746	4.42	ug/l	0.00
22) D5-Nitrobenzene-surr	5.67	128	327650	5.34	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.74	172	1366787	5.33	ug/l	0.00
64) 2,4,6-Tribromophenol	9.38	330	384443	14.03	ug/l	0.00
76) o-Terphenyl-surr	10.57	230	1255472	7.13	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.40	74	5384	0.08	ug/l #	32
3) Pyridine	2.48	79	2805	0.02	ug/l #	1
6) Phenol	4.45	94	2459	0.02	ug/l	99
7) Bis (2-chloroethyl)ether	4.80	93	5485	0.04	ug/l	91
8) 2-Chlorophenol	4.74	128	4942	0.04	ug/l	94
9) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
10) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
11) Benzaldehyde	4.84	105	1669	Below Cal	#	13
12) Benzyl Alcohol	5.16	108	1257	0.02	ug/l #	1
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
14) 2-Methylphenol	5.33	108	24226	0.22	ug/l #	78
15) Bis-(2-chloroisopropyl)-et	5.33	45	18228	0.12	ug/l #	1
16) Acetophenone	5.49	105	15798	0.10	ug/l	84
17) 4-Methylphenol	5.43	107	6673	0.06	ug/l	91
18) N-Nitrosodi-n-propylamine	5.51	70	9202	0.12	ug/l #	1
20) Hexachloroethane	5.59	117	19548	0.40	ug/l #	15
23) Nitrobenzene	5.66	77	1571280	12.55	ug/l #	49
24) Isophorone	5.97	82	81955	0.35	ug/l #	83
25) 2-Chloroaniline	6.02	127	45210	0.29	ug/l #	100
26) 2-Nitrophenol	6.03	139	3593	0.05	ug/l #	1
27) 2,4-Dimethylphenol	6.13	107	207025	1.68	ug/l	90
28) Benzoic Acid	6.31	105	225709	3.75	ug/l #	52
29) Bis(2-chloroethoxy)methane	6.23	93	16895	0.11	ug/l #	46
30) 2,4-Dichlorophenol	0.00	162	0	N.D.		
31) 1,2,4-Trichlorobenzene	6.57	180	1212	N.D.		
32) Naphthalene	6.51	128	5276	0.01	ug/l #	1
33) 4-Chloroaniline	6.62	127	2781	Below Cal	#	1
34) 2,6-Dichlorophenol	6.66	162	1840	0.02	ug/l #	1

00798

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	0.00	225	0	N.D.			
36) Caprolactum	6.99	55	35747	0.84	ug/l	#	62
37) 1,2-bis(2-chloroethoxy)eth	7.07	63	66955	0.60	ug/l		87
38) 4-Chloro-3-methylphenol	7.20	107	6655	0.07	ug/l	#	1
39) 2-Methylnaphthalene	7.30	142	14050	0.05	ug/l	#	1
40) 1-Methylnaphthalene	7.42	142	74086	0.28	ug/l	#	1
41) 1,3-Dinitrobenzene	8.21	168	2265	0.63	ug/l		100
43) Hexachlorocyclopentadien	0.00	237	0	N.D.			
44) 1,2,4,5-Tetrachlorobenze	0.00	216	0	N.D.			
45) 2,4,6-Trichlorophenol	7.67	196	1504	0.02	ug/l	#	1
46) 2,4,5-Trichlorophenol	0.00	198	0	N.D.			
48) 2-Chloronaphthalene	7.87	162	1955	N.D.			
49) Biphenyl	7.85	154	7778	0.03	ug/l	#	1
50) 2-Nitroaniline	7.94	138	4685	0.07	ug/l	#	1
51) Dimethylphthalate	8.65	163	146565	0.56	ug/l		93
52) 2,6-Dinitrotoluene	8.27	165	3489	0.06	ug/l	#	1
53) Acenaphthylene	8.33	152	1221	N.D.			
54) Acenaphthene	8.52	154	3643	0.02	ug/l	#	8
55) 4-Nitrophenol	8.70	65	3408	0.72	ug/l	#	40
56) 2,4-Dinitrotoluene	9.10	165	4923	0.07	ug/l		95
57) 2,4-Dinitrophenol	8.46	184	2532	1.42	ug/l	#	1
58) Dibenzofuran	8.71	168	5571	0.02	ug/l	#	53
59) 2,3,5,6-Tetrachloropheno	0.00	232	0	N.D.			
60) 2,3,4,6-Tetrachloropheno	0.00	232	0	N.D.			
61) Diethylphthalate	9.00	149	209530	0.71	ug/l		91
62) 4-Chlorophenyl phenyl ethe	9.10	204	4457	0.04	ug/l	#	1
63) Fluorene	9.10	166	2859	0.01	ug/l	#	1
66) 4,6-Dinitro-2-methyl-pheno	9.17	198	2906	0.76	ug/l	#	1
67) 1,2-Diphenylhydrazine	9.30	77	160423	0.74	ug/l	#	1
68) N-nitroso-diphenylamine	9.24	169	9136	0.04	ug/l	#	90
69) 4-Bromophenyl phenyl ether	9.38	248	25363	0.39	ug/l	#	1
70) Hexachlorobenzene	0.00	284	0	N.D.			
71) Atrazine	10.02	200	4691	0.08	ug/l		93
72) Pentachlorophenol	9.94	266	3314	0.70	ug/l	#	1
73) Phenanthrene	10.16	178	9359	0.03	ug/l	#	1
74) Anthracene	10.22	178	4011	0.01	ug/l	#	52
75) Carbazole	10.42	167	7377	Below Cal		#	7
77) Di-n-butylphthalate	10.80	149	49174	0.15	ug/l	#	83
78) Fluoranthene	11.48	202	4706	0.01	ug/l	#	60
80) Benzidine	11.66	184	1377	0.02	ug/l	#	1
81) Pyrene	11.73	202	9669	0.03	ug/l		96
82) Butyl Benzyl Phthalate	12.46	149	5921	0.04	ug/l		98
83) Bis(2-ethylhexyl)adipate	12.54	129	6140	0.05	ug/l	#	1
84) Bis(2-ethylhexyl)phthalate	13.09	149	18281	0.10	ug/l		98
85) Dicyclohexylphthalate	13.12	149	5433	0.02	ug/l	#	68
86) 3,3' Dichlorobenzidine	13.07	252	1016	0.01	ug/l	#	1
87) Benzo(a)anthracene	13.06	228	10131	0.03	ug/l	#	20
88) Chrysene	13.10	228	10415	0.03	ug/l	#	82
89) Di-n-octylphthalate	13.77	149	5958	0.65	ug/l	#	100
91) Benzo(b)fluoroanthene	14.17	252	10976	0.04	ug/l	#	94
92) Benzo(k)fluoroanthene	14.20	252	13372	0.04	ug/l	#	60
93) Benzo(a)pyrene	14.49	252	9240	0.03	ug/l	#	78

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.57	276	4080	0.02	ug/l		97
95) Dibenzo(a,h)anthracene	15.57	278	4453	0.02	ug/l	#	71
96) Benzo(g,h,i)perylene	15.85	276	4086	0.02	ug/l	#	69

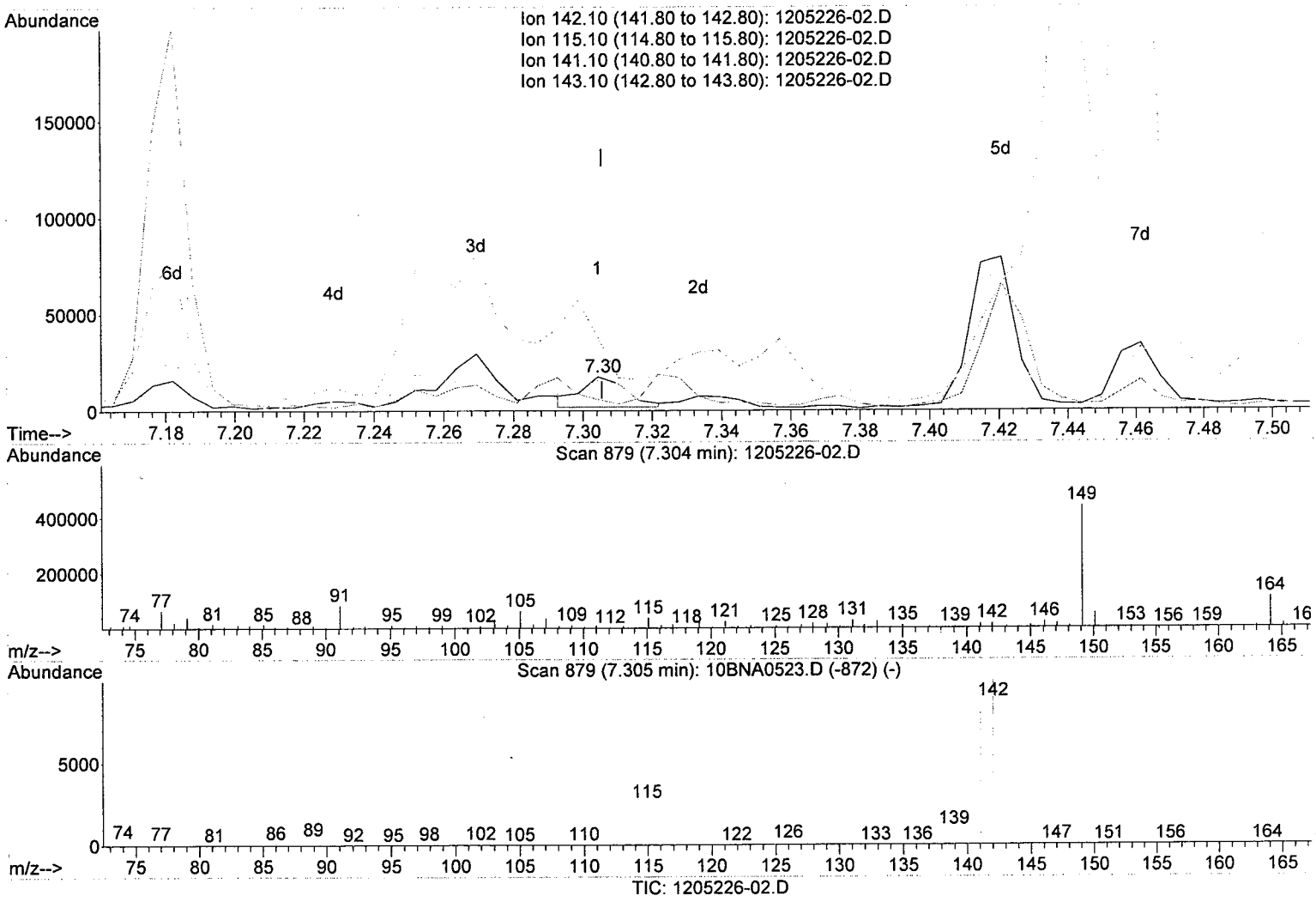
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00800

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(39) 2-Methylnaphthalene

7.30min (-0.001) 0.05ug/l

response 14050

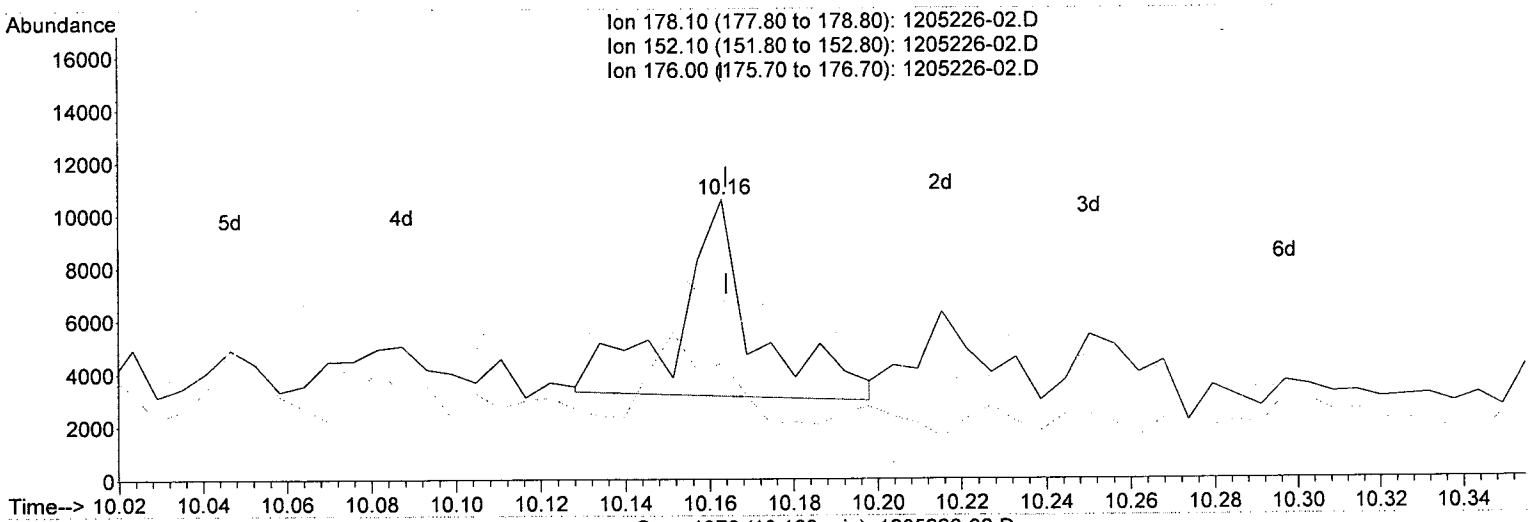
Ion	Exp%	Act%
142.10	100	100
115.10	33.30	223.54#
141.10	83.70	176.37#
143.10	11.60	76.36#

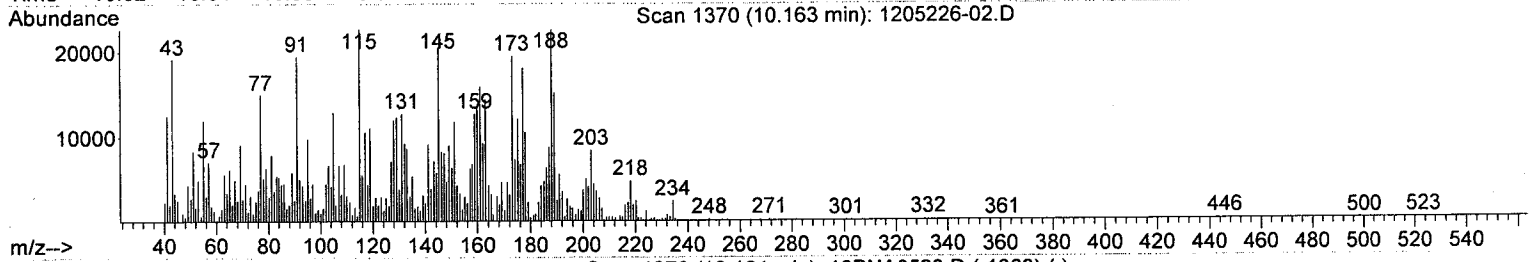
00801

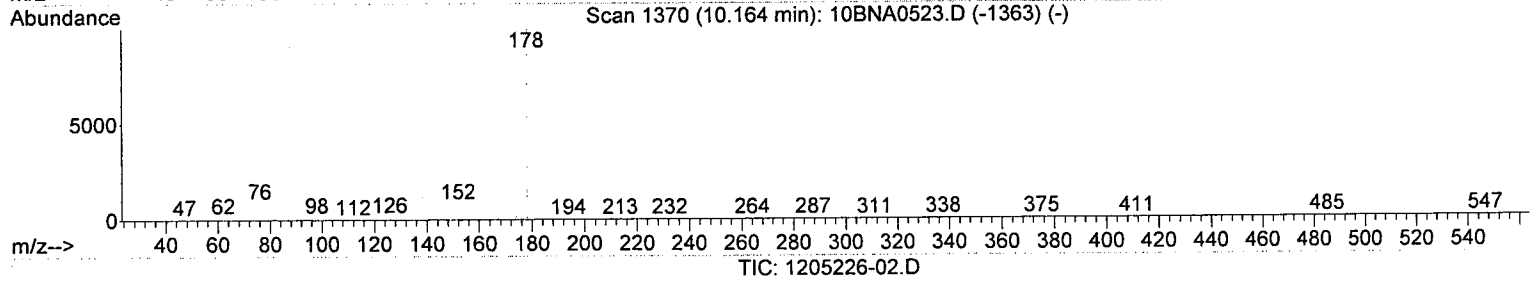
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration







TIC: 1205226-02.D

(73) Phenanthrene

10.16min (-0.001) 0.03ug/l

response 9359

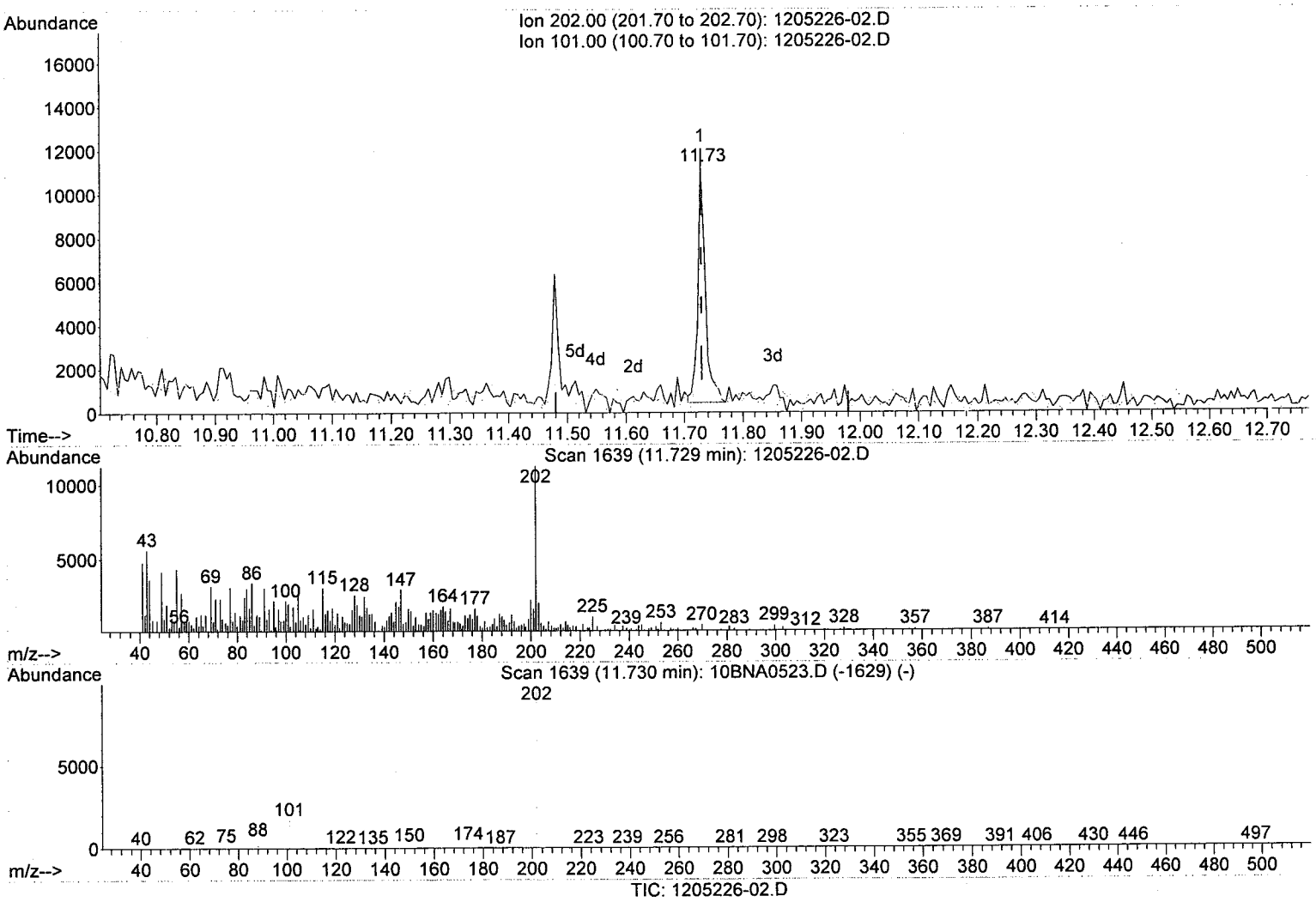
Ion	Exp%	Act%
178.10	100	100
152.10	9.40	55.43#
176.00	18.70	175.20#
0.00	0.00	0.00

00802

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(81) Pyrene

11.73min (-0.001) 0.03ug/l

response 9669

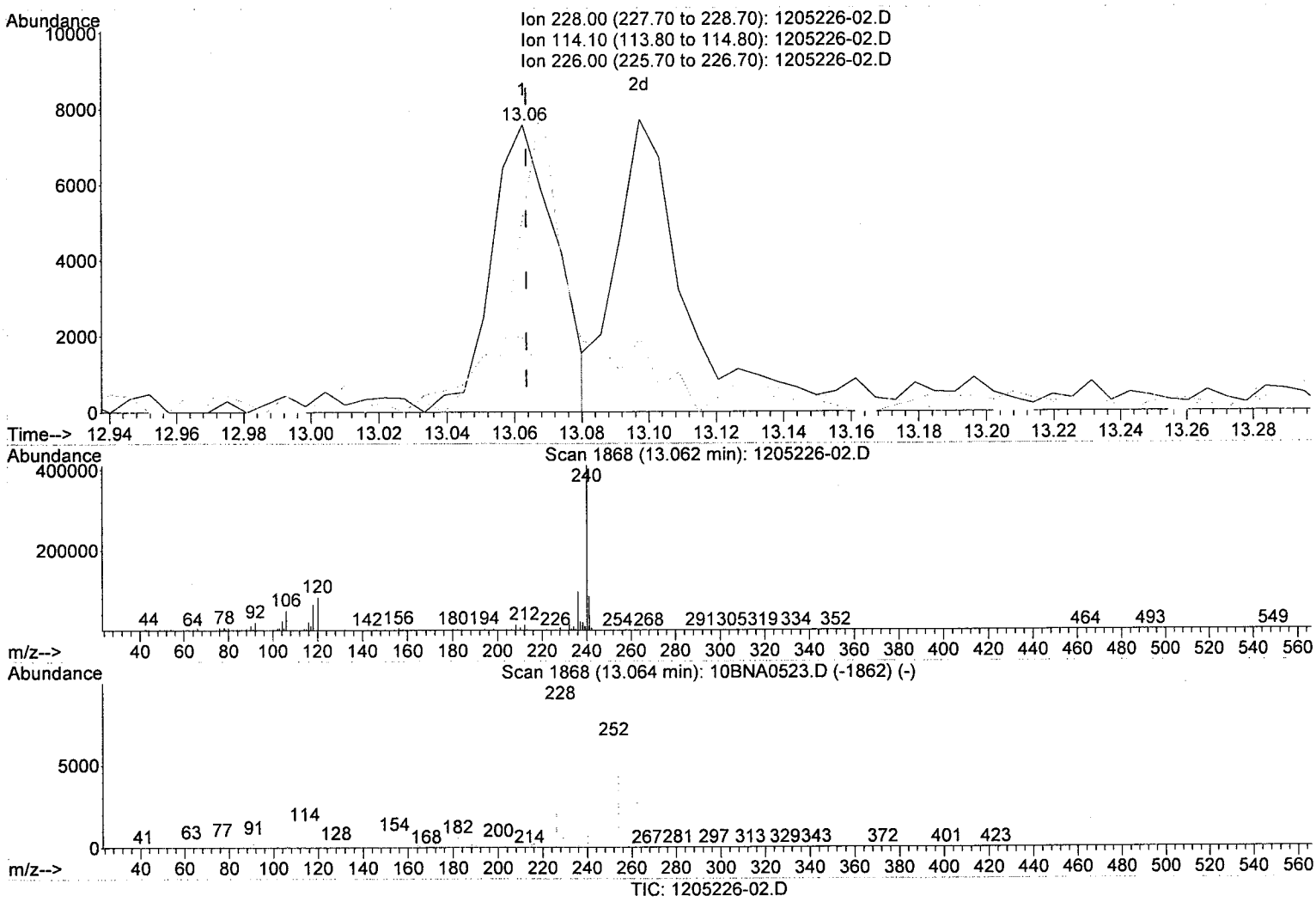
Ion	Exp%	Act%
202.00	100	100
101.00	16.20	18.07
0.00	0.00	0.00
0.00	0.00	0.00

00803

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(87) Benzo(a)anthracene

13.06min (-0.001) 0.03ug/l

response 10131

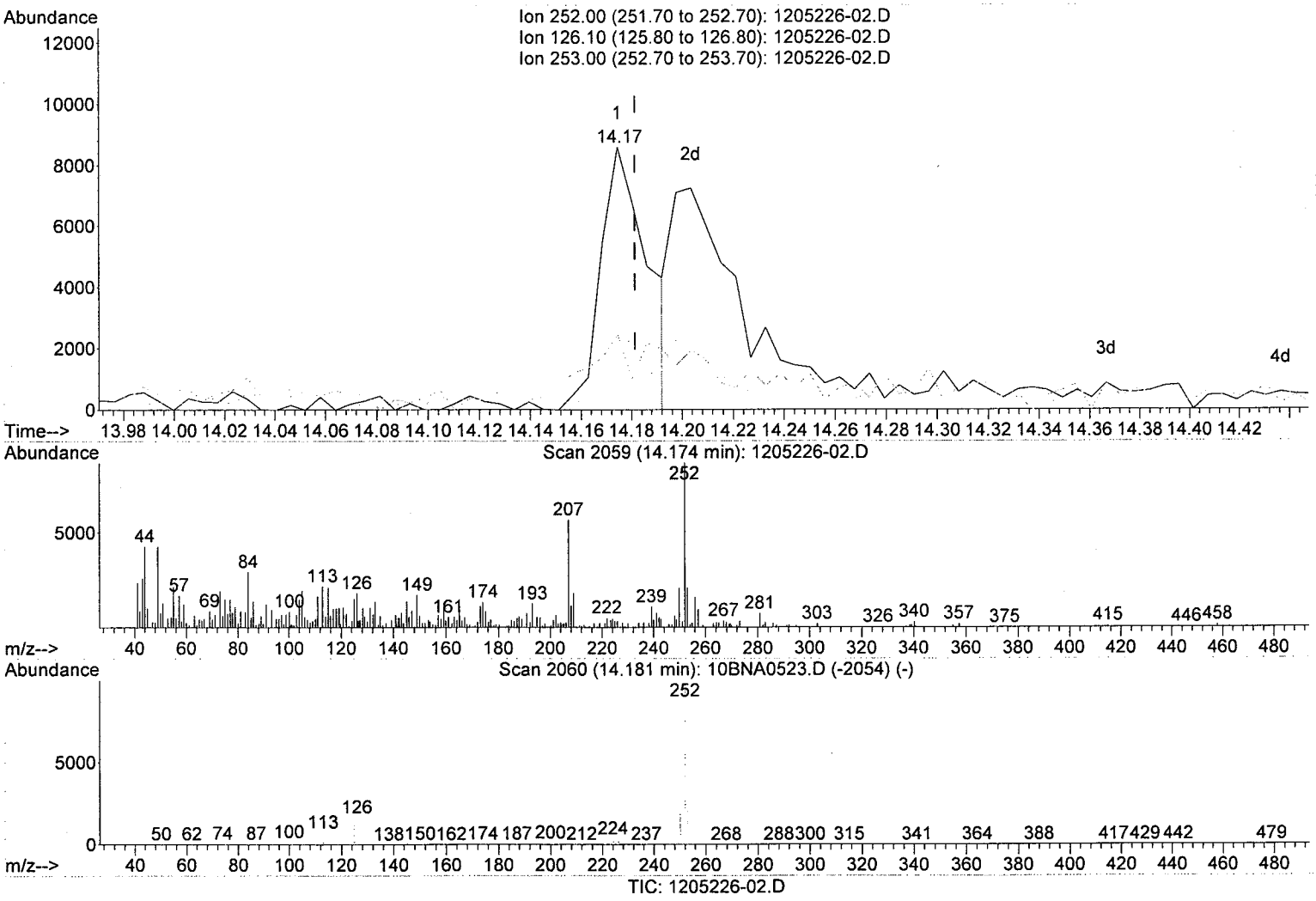
Ion	Exp%	Act%
228.00	100	100
114.10	15.50	104.28#
226.00	26.60	28.05
0.00	0.00	0.00

00804

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1205226-02.D

(91) Benzo(b)fluoroanthene

14.17min (-0.007) 0.04ug/l

response 10976

Ion	Exp%	Act%
252.00	100	100
126.10	16.70	20.99#
253.00	22.30	24.04
0.00	0.00	0.00

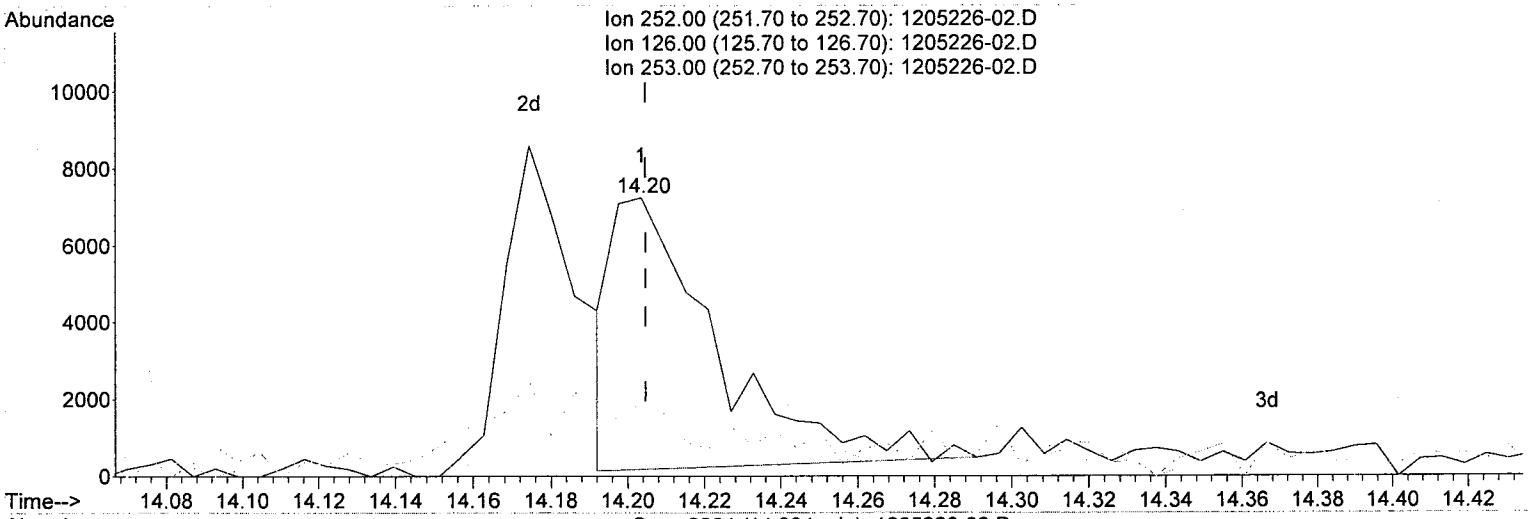
CLW

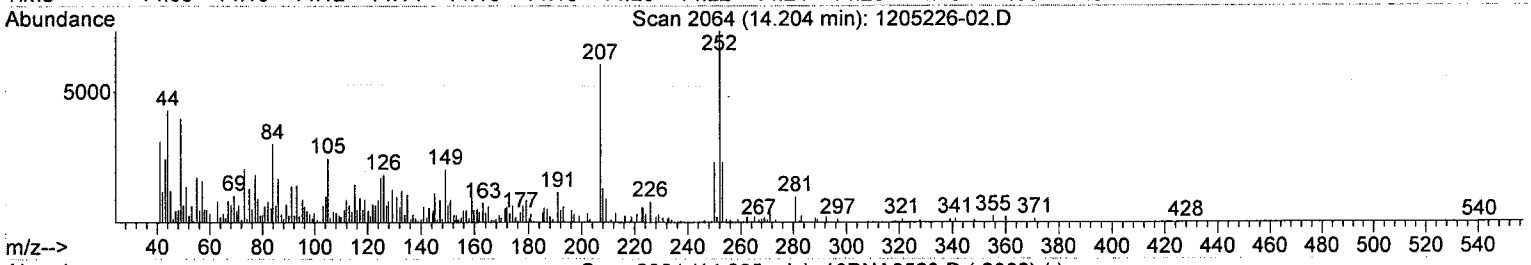
00805

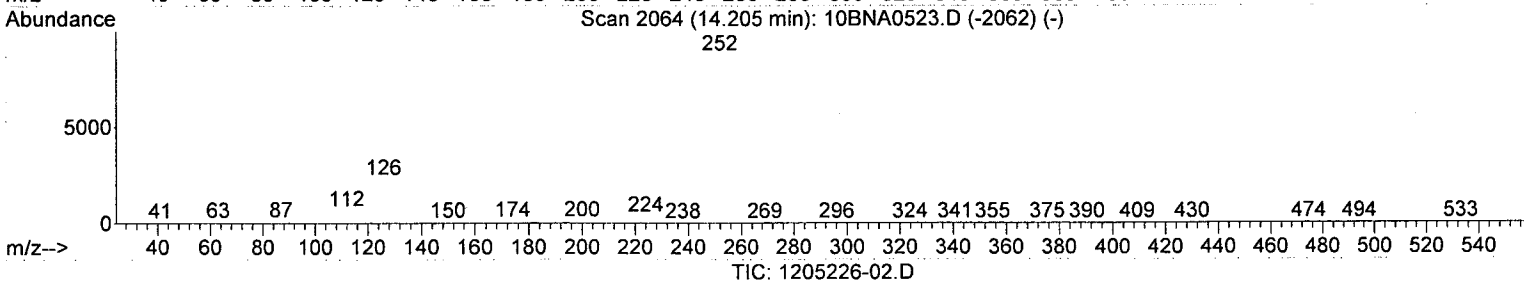
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1205226-02.D
Acq On : 23 May 2012 14:27
Operator : DMC
Sample : 1205226-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 23 14:47:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration







TIC: 1205226-02.D

(92) Benzo(k)fluoroanthene

14.20min (-0.001) 0.04ug/l

response 13372

Ion	Exp%	Act%
252.00	100	100
126.00	20.30	0.00#
253.00	22.20	39.32#
0.00	0.00	0.00

00806

ORGANIC ANALYSIS DATA SHEET
USEPA-8270C

1060SL

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050712

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205358-01 File ID: 1205358-01.D

Sampled: 05/17/12 10:00 Prepared: 05/24/12 08:11 Analyzed: 05/30/12 15:20

Solids: Preparation: 3510C Liquid-Liquid Ext Initial/Final: 970 mL / 1 mL

QC Batch: 1206587 Sequence: 2E31014 Calibration: 2E31003 Instrument: 308

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
83-32-9	Acenaphthene	1	5.0	0.050	5.0	U
208-96-8	Acenaphthylene	1	5.0	0.050	5.0	U
120-12-7	Anthracene	1	0.031	0.018	5.0	J
56-55-3	Benzo(a)anthracene	1	0.062	0.026	1.0	J
50-32-8	Benzo(a)pyrene	1	1.0	0.040	1.0	U
205-99-2	Benzo(b)fluoranthene	1	1.0	0.071	1.0	U
191-24-2	Benzo(g,h,i)perylene	1	1.0	0.026	1.0	U
207-08-9	Benzo(k)fluoranthene	1	1.0	0.031	1.0	U
218-01-9	Chrysene	1	0.041	0.031	1.0	J
53-70-3	Dibenz(a,h)anthracene	1	2.0	0.034	2.0	U
206-44-0	Fluoranthene	1	0.052	0.017	1.0	J
86-73-7	Fluorene	1	5.0	0.022	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	2.0	0.024	2.0	U
91-57-6	2-Methylnaphthalene	1	5.0	0.024	5.0	U
91-20-3	Naphthalene	1	5.0	0.050	5.0	U
85-01-8	Phenanthrene	1	0.052	0.024	2.0	J
129-00-0	Pyrene	1	0.062	0.025	5.0	J

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Nitrobenzene-d5	10.3	9.32	90	31 - 123	
2-Fluorobiphenyl	10.3	9.39	91	25 - 113	
o-Terphenyl	10.4	10.2	98	42 - 125	

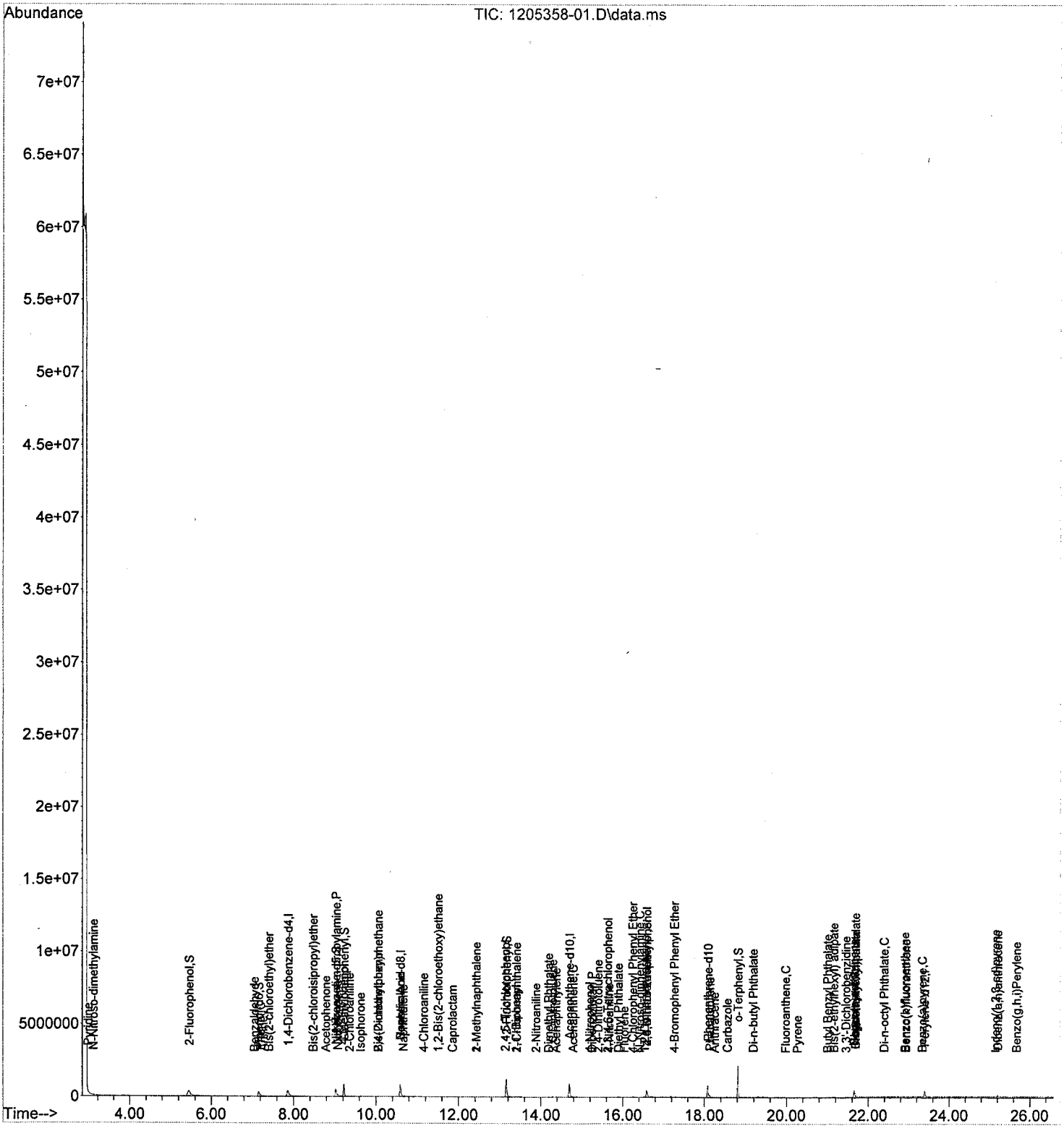
Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
Naphthalene-d8	847001	10.596	1026583	10.538	
Acenaphthene-d10	414203	14.705	540093	14.648	
Phenanthrene-d10	534865	18.091	883336	18.04	
Chrysene-d12	254214	21.658	409265	21.619	
Perylene-d12	260716	23.401	367166	23.35	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:42:36 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:42:36 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.868	152	221112	5.00	ng/uL	# 0.00
21) Naphthalene-d8	10.596	136	847001	5.00	ng/uL	0.00
43) Acenaphthene-d10	14.705	164	414203	5.00	ng/uL	0.00
67) Phenanthrene-d10	18.091	188	534865	5.00	ng/uL	0.00
82) Chrysene-d12	21.658	240	254214	5.00	ng/uL	# 0.00
93) Perylene-d12	23.401	264	260716	5.00	ng/uL	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.455	112	643619	11.81	ng/uL	-0.02
7) Phenol-d6	7.163	99	463567	7.33	ng/uL	-0.01
22) Nitrobenzene-d5	9.028	82	525701	9.04	ng/uL	0.00
24) Decafluorobiphenyl	9.226	334	297136	7.10	ng/uL	0.00
48) 2-Fluorobiphenyl	13.166	172	874181	9.11	ng/uL	0.00
71) 2,4,6-Tribromophenol	16.593	330	95854	14.04	ng/uL	-0.01
79) o-Terphenyl	18.820	230	536177	9.86	ng/uL	0.00
Target Compounds						Qvalue
2) N-Nitroso-dimethylamine	3.094	74	1942	0.06	ng/uL#	1
3) Pyridine	2.966	79	339	0.01	ng/uL#	1
5) Aniline	7.262	93	529	0.01	ng/uL#	33
6) Benzaldehyde	7.052	105	131	0.00	ng/uL#	1
8) Phenol	7.203	94	622	0.01	ng/uL#	18
9) Bis(2-chloroethyl)ether	7.402	93	157	0.00	ng/uL	100
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Bis(2-chloroisipropyl)...	8.474	45	58	0.00	ng/uL#	51
15) Benzyl Alcohol	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	8.783	105	141	0.00	ng/uL#	85
18) Hexachloroethane	0.000		0	N.D.		
19) 4-Methylphenol	9.214	107	302	0.01	ng/uL#	81
20) N-Nitroso-di-n-propyla...	9.028	70	76576	1.92	ng/uL#	3
23) Nitrobenzene	9.069	77	257	0.00	ng/uL#	30
25) Isophorone	9.622	82	2333	0.03	ng/uL#	64
26) 2-Chloroaniline	9.354	127	60	0.00	ng/uL#	1
27) 2-Nitrophenol	0.000		0	N.D.		
28) 2,4-Dimethylphenol	10.054	107	194	0.00	ng/uL#	5
29) Bis(2-chlorethoxy)methane	10.054	93	97	0.00	ng/uL	89
30) 2,4-Dichlorophenol	0.000		0	N.D.		
31) Benzoic Acid	10.596	105	831	1.32	ng/uL#	1
32) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
33) Naphthalene	10.660	128	622	0.00	ng/uL	95
34) 4-Chloroaniline	11.149	127	114	0.00	ng/uL	97
35) 2,6-Dichlorophenol	0.000		0	N.D.		
36) Hexachlorobutadiene	0.000		0	N.D.		
37) Caprolactam	11.855	55	380	0.72	ng/uL#	21
38) 1,2-Bis(2-chloroethoxy...	11.505	63	121	0.00	ng/uL#	100
39) 4-Chloro-3-methylphenol	0.000		0	N.D.		
40) 2-Methylnaphthalene	12.426	142	60	0.00	ng/uL#	17
41) 1-Methylnaphthalene	12.426	142	60	0.00	ng/uL#	15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:42:36 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,3 Dinitrobenzene	0.000		0	N.D.	
44) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
45) Hexachlorocyclopentadiene	0.000		0	N.D.	
46) 2,4,6-Trichlorophenol	0.000		0	N.D.	
47) 2,4,5-Trichlorophenol	13.137	196	121	0.01 ng/uL#	1
49) 2-Chloronaphthalene	13.405	162	241	0.00 ng/uL#	35
50) 1,1'-Biphenyl	13.393	154	1106	0.01 ng/uL#	63
51) 2-Nitroaniline	13.883	138	106	0.63 ng/uL#	49
52) Acenaphthylene	14.373	152	719	0.01 ng/uL#	55
53) 2,6-Dinitrotoluene	14.291	165	555	0.39 ng/uL#	8
54) Dimethyl Phthalate	14.186	163	4113	0.05 ng/uL	91
55) 3-Nitroaniline	0.000		0	N.D.	
56) Acenaphthene	14.786	153	476	0.01 ng/uL#	63
57) 2,4-Dinitrophenol	0.000		0	N.D.	
58) Dibenzofuran	15.247	168	189	0.00 ng/uL#	37
59) 4-Nitrophenol	15.194	65	126	1.32 ng/uL#	6
60) 2,4-Dinitrotoluene	15.398	165	140	0.51 ng/uL#	17
61) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.	
62) 2,3,4,6-Tetrachlorophenol	15.632	232	56	0.50 ng/uL#	1
63) Fluorene	16.034	166	170	0.00 ng/uL#	1
64) Diethyl Phthalate	15.894	149	9929	0.32 ng/uL	96
65) 4-Chlorophenyl Phenyl ...	16.249	204	220	0.01 ng/uL#	1
66) 4-Nitroaniline	15.667	138	224	0.03 ng/uL#	56
68) 4,6-Dinitro-2-methylph...	16.593	198	422	1.13 ng/uL#	1
69) N-Nitroso-diphenylamine	16.418	169	585	0.01 ng/uL#	58
70) 1,2-Diphenylhydrazine	16.535	182	103	0.01 ng/uL	96
72) 4-Bromophenyl Phenyl E...	17.269	248	61	0.00 ng/uL#	2
73) Hexachlorobenzene	0.000		0	N.D.	
74) Atrazine	0.000		0	N.D.	
75) Pentachlorophenol	0.000		0	N.D.	
76) Phenanthrene	18.138	178	4578	0.05 ng/uL	100
77) Anthracene	18.249	178	2935	0.03 ng/uL	100
78) Carbazole	18.558	167	644	0.14 ng/uL#	53
80) Di-n-butyl Phthalate	19.187	149	12142	0.13 ng/uL#	88
81) Fluoroanthene	19.974	202	3738	0.05 ng/uL#	76
83) Benzidine	0.000		0	N.D.	
84) Pyrene	20.265	202	4482	0.06 ng/uL#	82
85) Butyl Benzyl Phthalate	21.000	149	356	0.29 ng/uL	82
86) Bis(2-ethylhexyl) adipate	21.157	129	5553	0.42 ng/uL#	100
87) Benzo(a)anthracene	21.653	228	3223	0.06 ng/uL#	42
88) 3,3'-Dichlorobenzidine	21.449	252	61	0.16 ng/uL#	1
89) Chrysene	21.682	228	2357	0.04 ng/uL#	1
90) Bis(2-ethylhexyl)phtha...	21.682	149	50702	1.77 ng/uL	97
91) Dicyclohexyl Phthalate	21.682	149	50702	1.17 ng/uL#	100
92) Di-n-octyl Phthalate	22.393	149	1541	0.31 ng/uL	100
94) Benzo(b)fluoroanthene	22.906	252	1830	0.04 ng/uL#	81
95) Benzo(k)fluoranthene	22.935	252	1347m	0.03 ng/uL	
96) Benzo(a)pyrene	23.337	252	1346	0.03 ng/uL#	67
97) Indeno(1,2,3-cd)pyrene	25.150	276	563	0.01 ng/uL#	46
98) Dibenz(a,h)anthracene	25.208	278	438	0.01 ng/uL#	83
99) Benzo(g,h,i)Perylene	25.669	276	1021	~~0.03~~ ng/uL#	88

00810

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:42:36 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

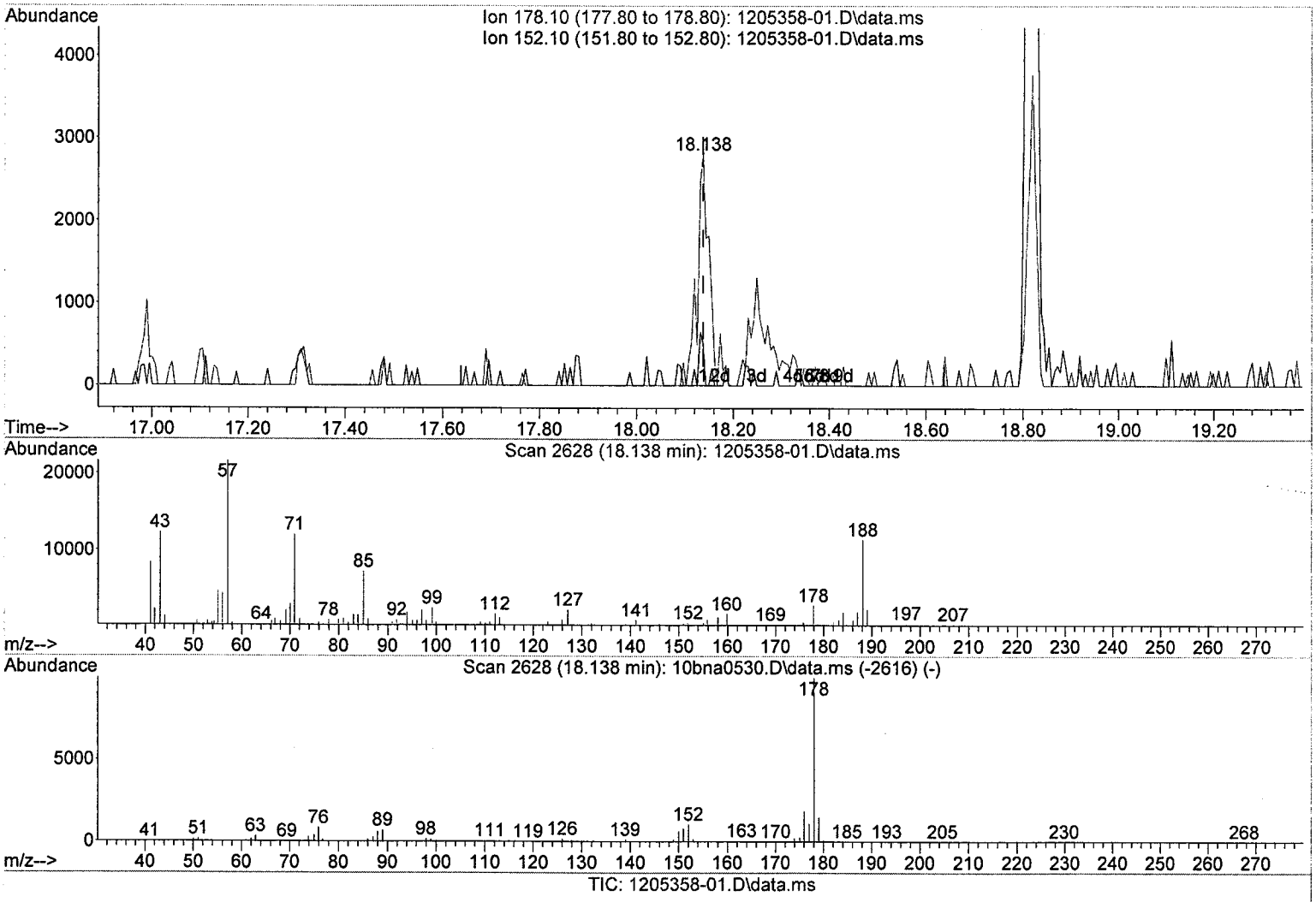
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00811

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:41:43 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1205358-01.D\data.ms

(76) Phenanthrene

18.138min (0.000) 0.05 ng/uL

response 4578

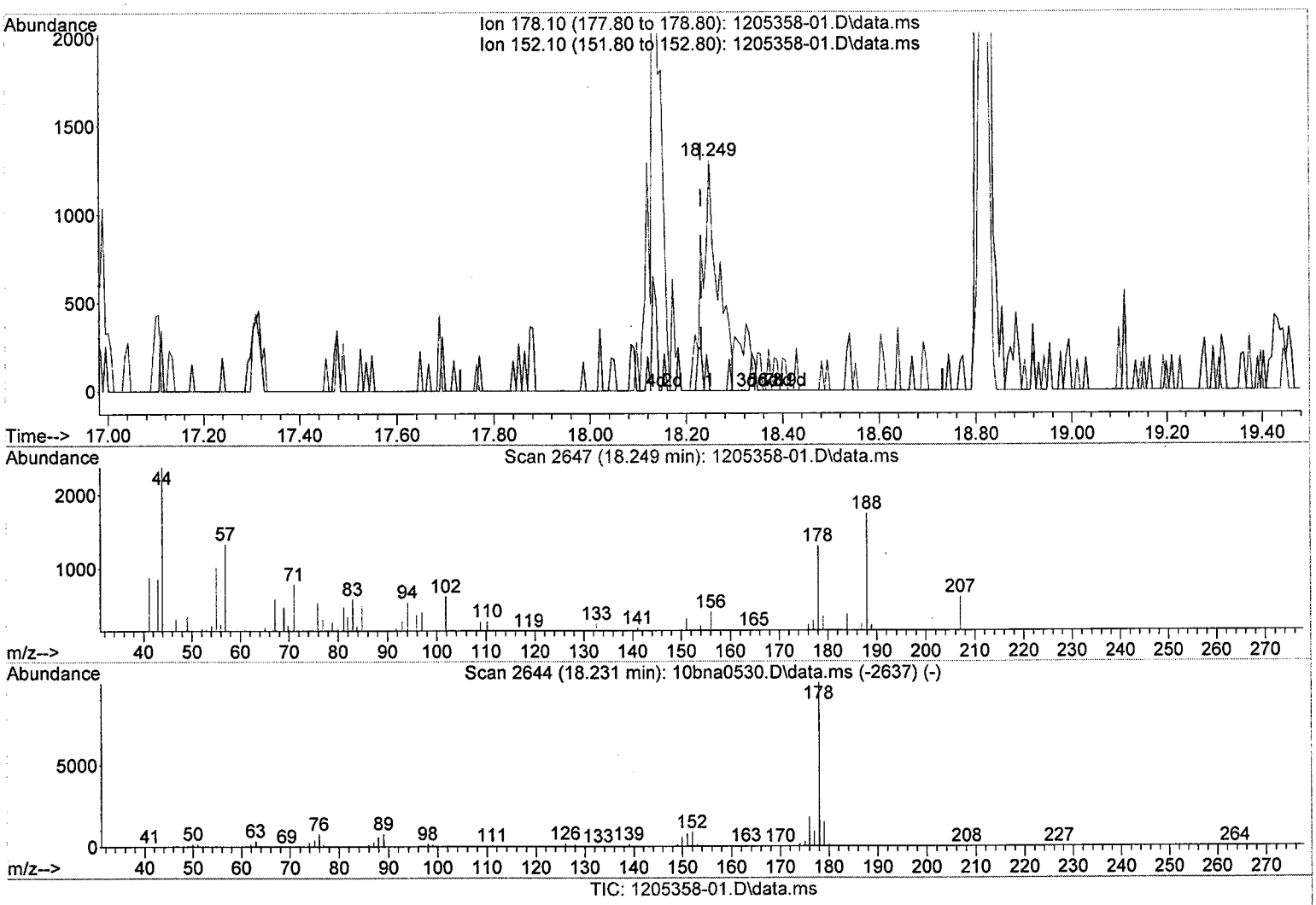
Ion	Exp%	Act%
178.10	100	100
152.10	10.10	10.27
0.00	0.00	0.00
0.00	0.00	0.00

00812

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:41:43 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



(77) Anthracene

18.249min (+0.017) 0.03 ng/uL

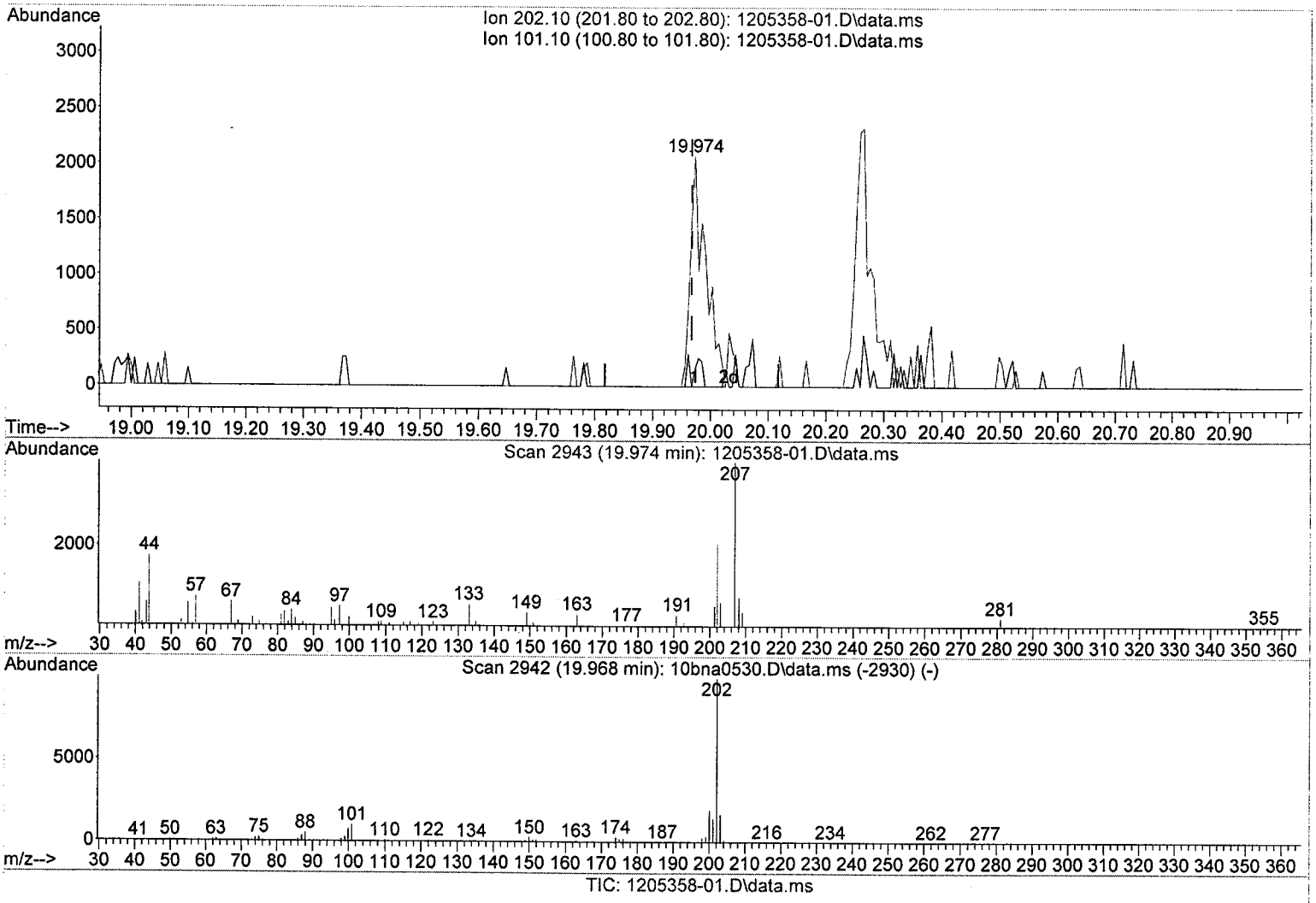
response 2935

Ion	Exp%	Act%
178.10	100	100
152.10	7.90	8.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:41:43 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1205358-01.D\data.ms

(81) Fluoroanthene (C)

19.974min (+0.006) 0.05 ng/uL

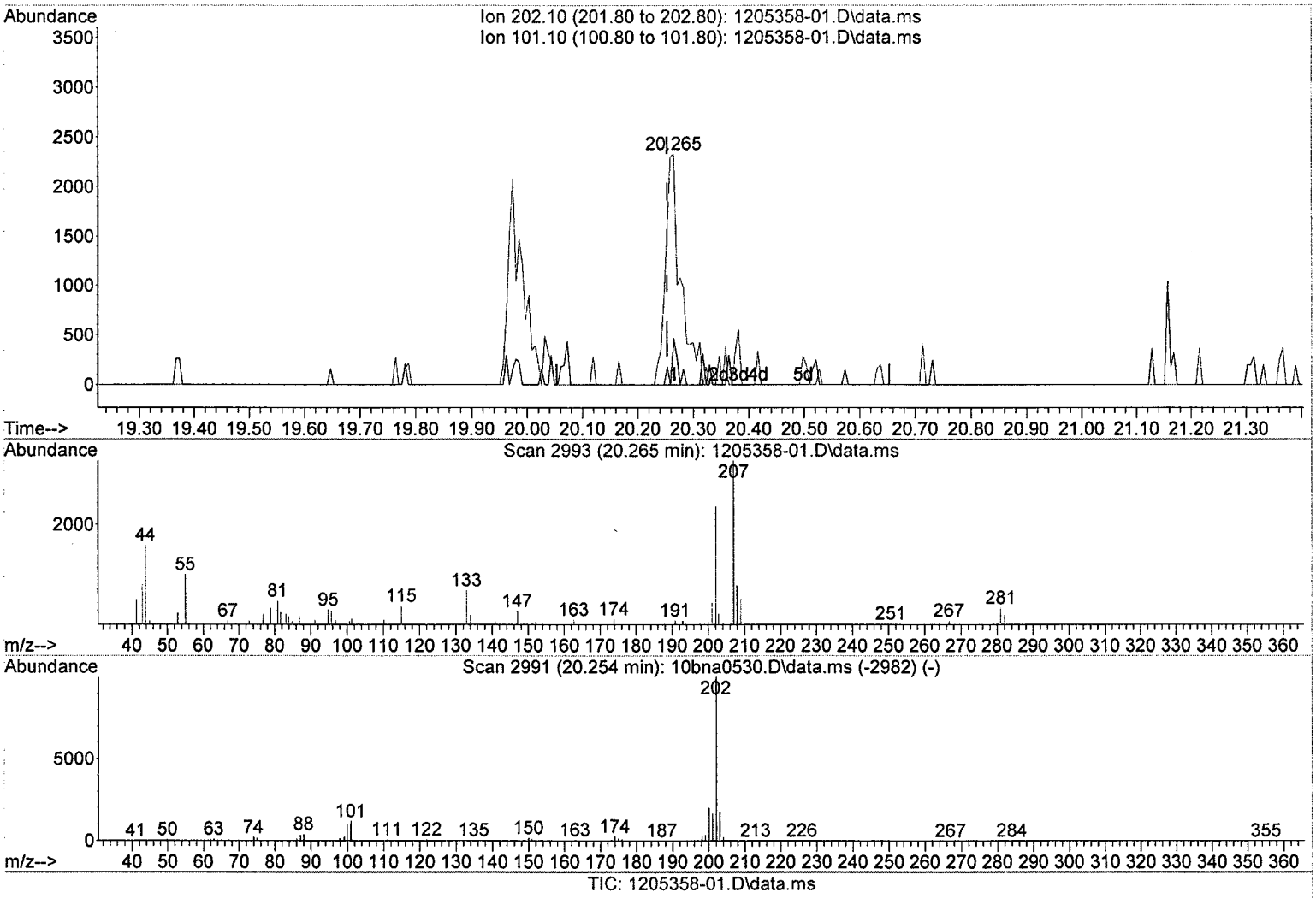
response 3738

Ion	Exp%	Act%
202.10	100	100
101.10	16.20	5.91#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:41:43 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1205358-01.D\data.ms

(84) Pyrene

20.265min (+0.012) 0.06 ng/uL

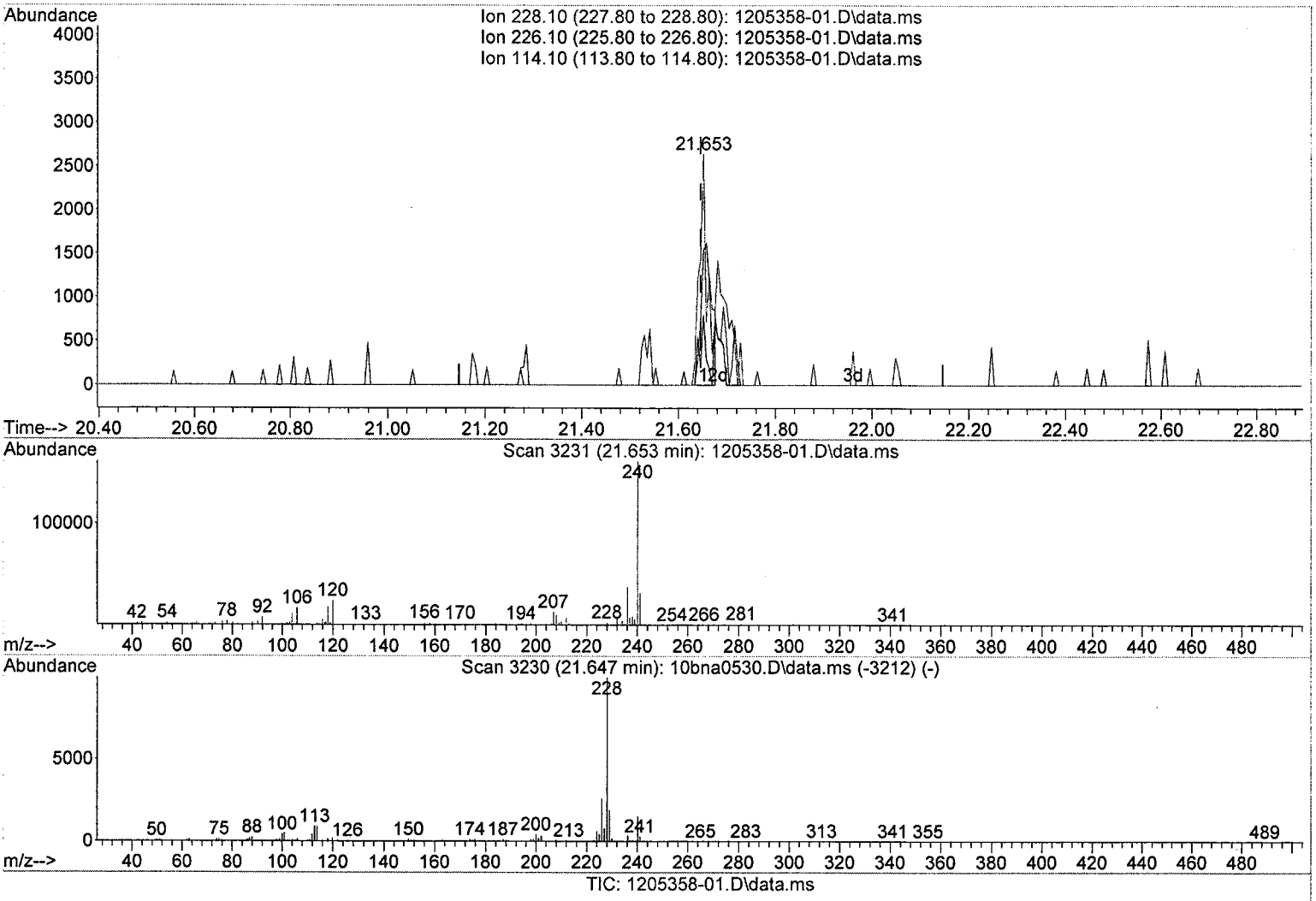
response 4482

Ion	Exp%	Act%
202.10	100	100
101.10	16.00	8.19#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:41:43 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



(87) Benzo(a)anthracene

21.653min (+0.006) 0.06 ng/uL

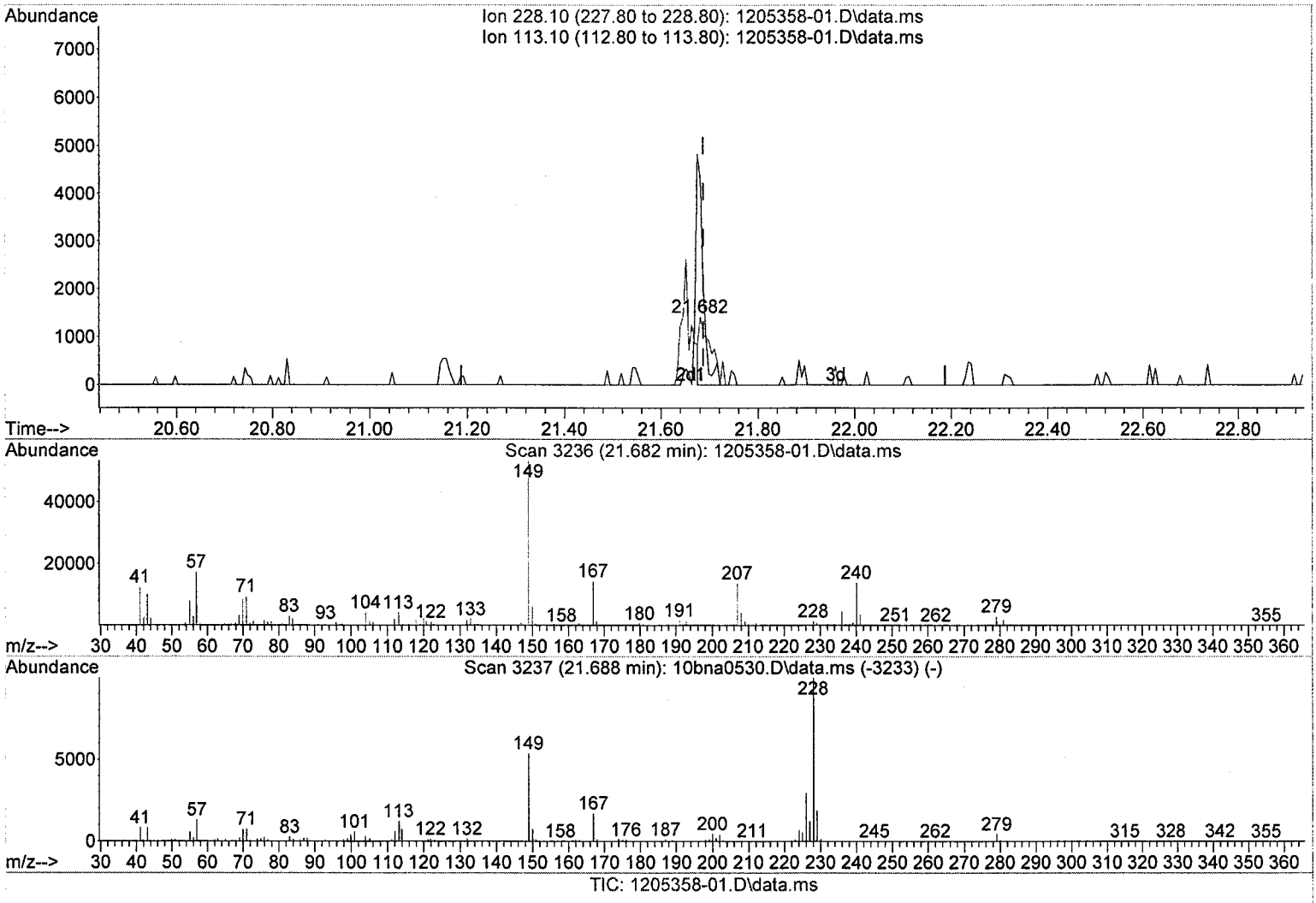
response 3223

Ion	Exp%	Act%
228.10	100	100
226.10	25.90	21.94
114.10	13.30	75.27#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:41:43 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1205358-01.D\data.ms

(89) Chrysene

21.682min (-0.006) 0.04 ng/uL

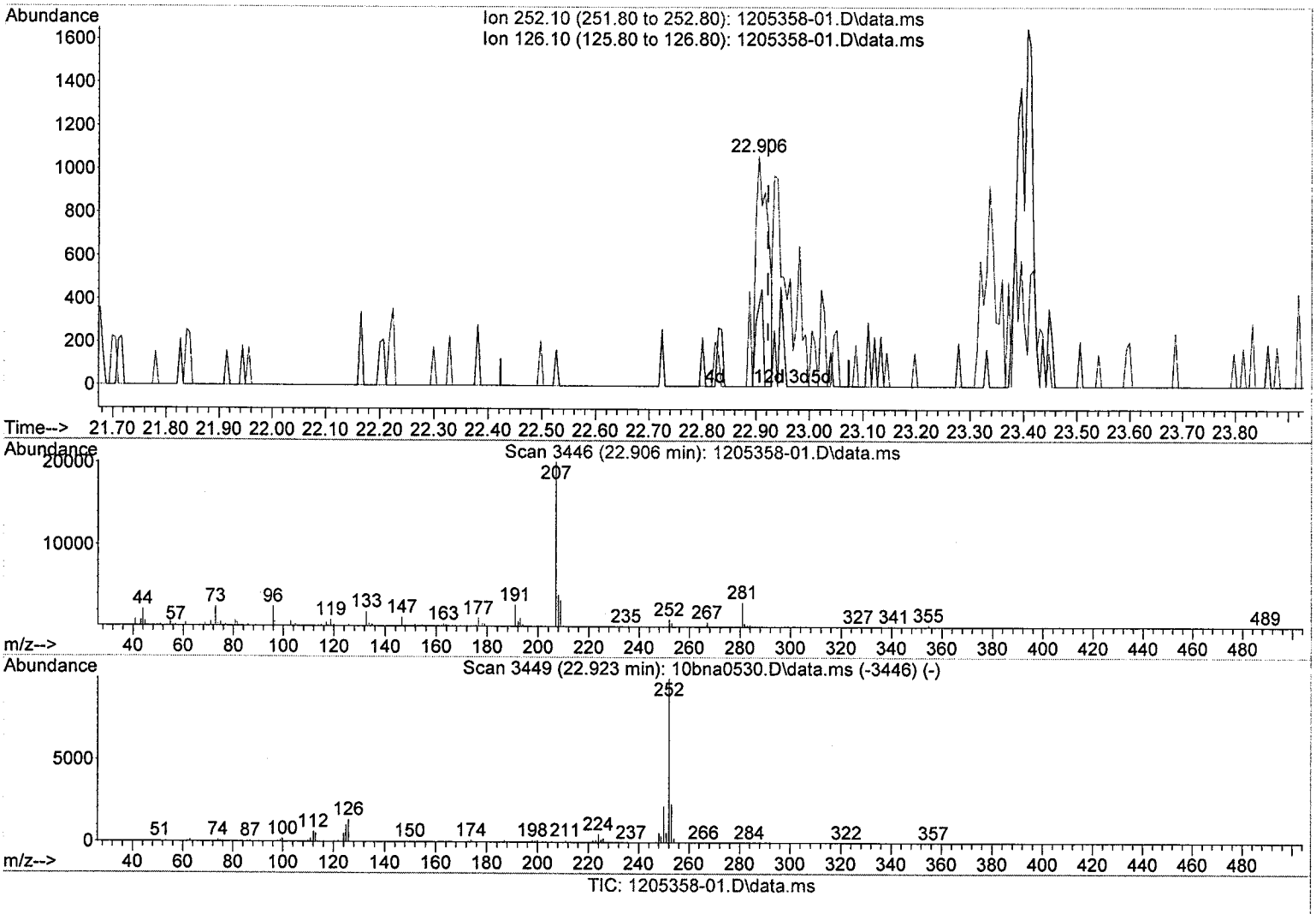
response 2357

Ion	Exp%	Act%
228.10	100	100
113.10	16.00	216.08#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:41:43 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



(95) Benzo(k)fluoranthene

22.906min (-0.017) 0.04 ng/uL

response 1830

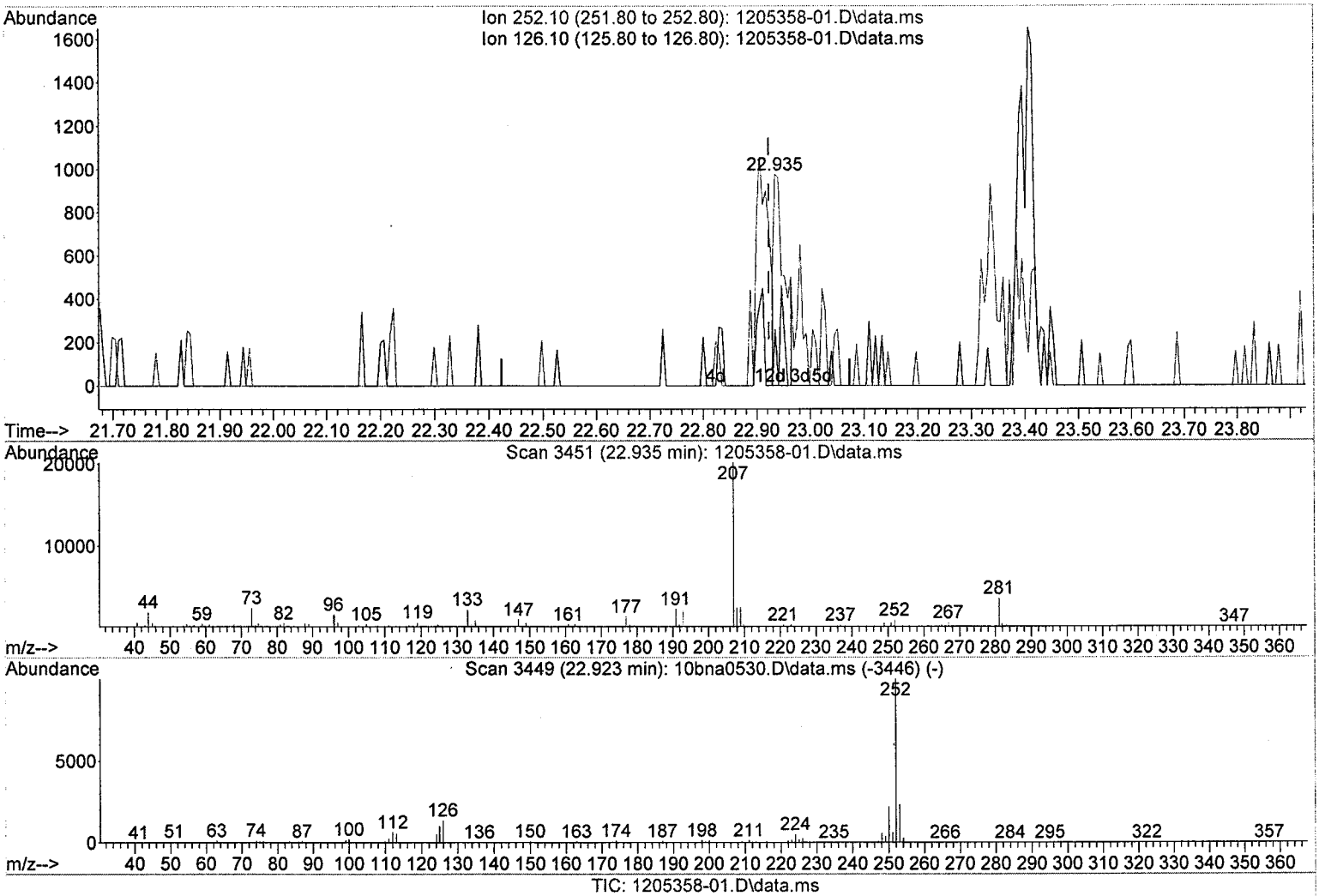
Ion	Exp%	Act%
252.10	100	100
126.10	18.90	21.37
0.00	0.00	0.00
0.00	0.00	0.00

JWB 5/31/12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205358-01.D
Acq On : 30 May 2012 15:20
Operator : JLB
Sample : 1205358-01 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 07:41:43 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1205358-01.D\data.ms

(95) Benzo(k)fluoranthene

22.935min (+0.012) 0.03 ng/uL m

response 1347

Ion	Exp%	Act%
252.10	100	100
126.10	18.90	29.03#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 2: Close eluting isomers integrated incorrectly by the software.

Flagged on Quantitation Report: Yes / No

Analyst: JLB Date: 5/31/12

Reviewed By: [signature] Date: 5/31/12

LMDL

ORGANIC ANALYSIS DATA SHEET
USEPA-8270C

106RCT

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050712

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205374-01 File ID: 1205374-01.D

Sampled: 05/18/12 09:30 Prepared: 05/24/12 08:11 Analyzed: 05/30/12 15:55

Solids: Preparation: 3510C Liquid-Liquid Ext Initial/Final: 950 mL / 1 mL

QC Batch: 1206587 Sequence: 2E31014 Calibration: 2E31003 Instrument: 308

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
83-32-9	Acenaphthene	1	5.0	0.050	5.0	U
208-96-8	Acenaphthylene	1	5.0	0.050	5.0	U
120-12-7	Anthracene	1	5.0	0.018	5.0	U
56-55-3	Benzo(a)anthracene	1	0.032	0.026	1.0	J
50-32-8	Benzo(a)pyrene	1	1.0	0.040	1.0	U
205-99-2	Benzo(b)fluoranthene	1	1.0	0.071	1.0	U
191-24-2	Benzo(g,h,i)perylene	1	1.0	0.026	1.0	U
207-08-9	Benzo(k)fluoranthene	1	1.0	0.031	1.0	U
218-01-9	Chrysene	1	1.0	0.031	1.0	U
53-70-3	Dibenz(a,h)anthracene	1	2.0	0.034	2.0	U
206-44-0	Fluoranthene	1	1.0	0.017	1.0	U
86-73-7	Fluorene	1	5.0	0.022	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	1	2.0	0.024	2.0	U
91-57-6	2-Methylnaphthalene	1	5.0	0.024	5.0	U
91-20-3	Naphthalene	1	5.0	0.050	5.0	U
85-01-8	Phenanthrene	1	2.0	0.024	2.0	U
129-00-0	Pyrene	1	5.0	0.025	5.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Nitrobenzene-d5	10.5	8.77	83	31 - 123	
2-Fluorobiphenyl	10.5	9.13	87	25 - 113	
o-Terphenyl	10.6	9.78	92	42 - 125	

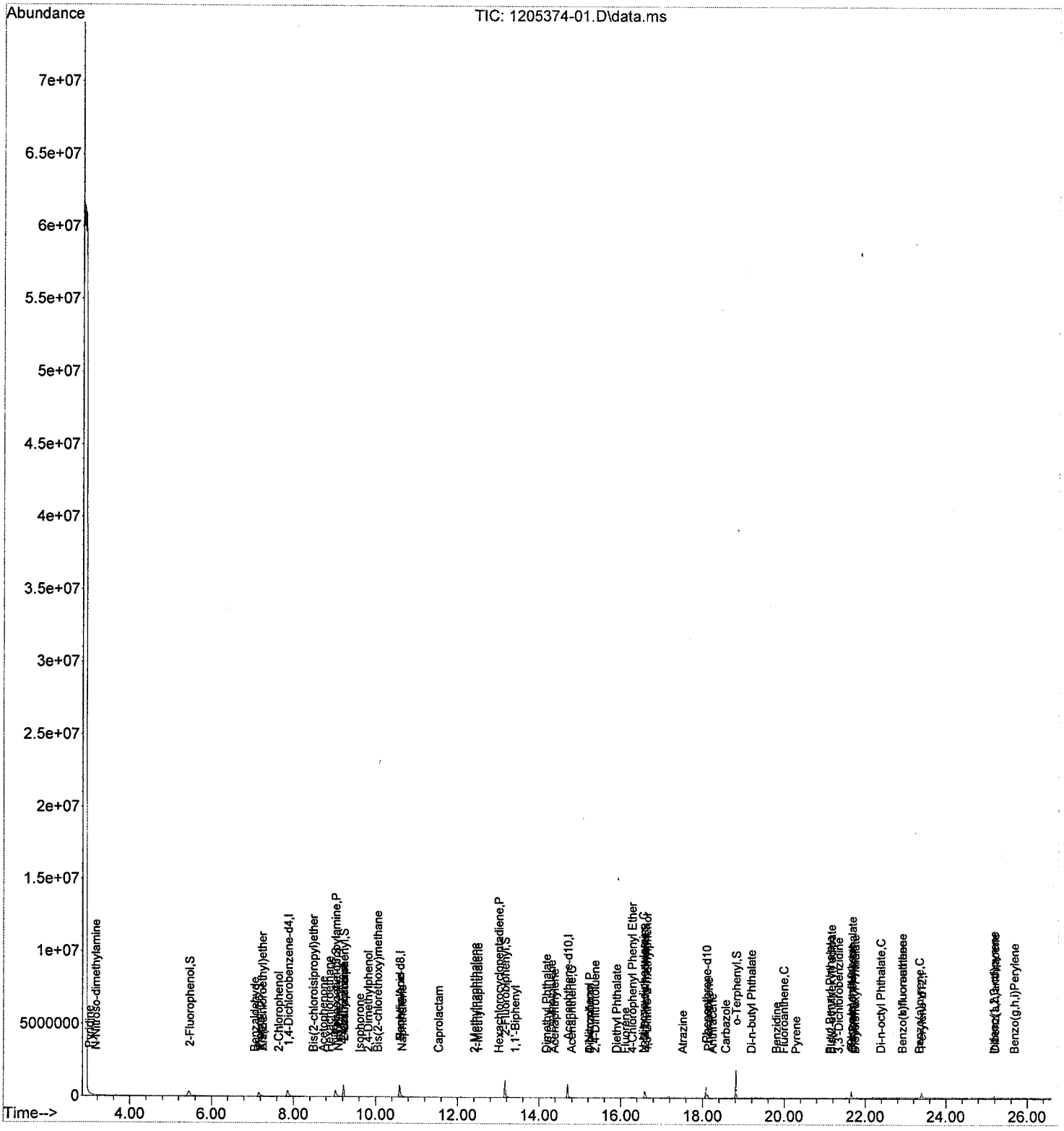
Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
Naphthalene-d8	842123	10.596	1026583	10.538	
Acenaphthene-d10	408104	14.705	540093	14.648	
Phenanthrene-d10	536744	18.091	883336	18.04	
Chrysene-d12	249402	21.653	409265	21.619	
Perylene-d12	257223	23.401	367166	23.35	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205374-01.D
Acq On : 30 May 2012 15:55
Operator : JLB
Sample : 1205374-01 Inst : 308
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 07:43:00 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205374-01.D
Acq On : 30 May 2012 15:55
Operator : JLB
Sample : 1205374-01 Inst : 308
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 07:43:00 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.874	152	215794	5.00	ng/uL	# 0.00
21) Naphthalene-d8	10.596	136	842123	5.00	ng/uL	0.00
43) Acenaphthene-d10	14.705	164	408104	5.00	ng/uL	0.00
67) Phenanthrene-d10	18.091	188	536744	5.00	ng/uL	0.00
82) Chrysene-d12	21.653	240	249402	5.00	ng/uL	# 0.00
93) Perylene-d12	23.401	264	257223	5.00	ng/uL	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.461	112	542962	10.21	ng/uL	-0.02
7) Phenol-d6	7.163	99	386574	6.26	ng/uL	-0.01
22) Nitrobenzene-d5	9.028	82	481298	8.33	ng/uL	0.00
24) Decafluorobiphenyl	9.226	334	286668	6.89	ng/uL	0.00
48) 2-Fluorobiphenyl	13.160	172	819999	8.67	ng/uL	-0.01
71) 2,4,6-Tribromophenol	16.593	330	100946	14.74	ng/uL	-0.01
79) o-Terphenyl	18.820	230	507000	9.29	ng/uL	0.00
Target Compounds						Qvalue
2) N-Nitroso-dimethylamine	3.147	74	2964	0.09	ng/uL#	61
3) Pyridine	2.995	79	447	0.01	ng/uL	88
5) Aniline	7.256	93	196	0.00	ng/uL#	1
6) Benzaldehyde	7.052	105	330	0.01	ng/uL#	56
8) Phenol	7.198	94	253	0.00	ng/uL#	18
9) Bis(2-chloroethyl)ether	7.244	93	132	0.00	ng/uL	100
10) 2-Chlorophenol	7.635	128	119	0.00	ng/uL#	1
11) 1,3-Dichlorobenzene	0.000		0	N.D.		
12) 1,4-Dichlorobenzene	0.000		0	N.D.		
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Bis(2-chloroisipropyl)...	8.480	45	60	0.00	ng/uL#	1
15) Benzyl Alcohol	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	8.719	105	121	0.00	ng/uL#	54
18) Hexachloroethane	8.865	119	255	0.01	ng/uL#	18
19) 4-Methylphenol	9.214	107	781	0.02	ng/uL#	52
20) N-Nitroso-di-n-propyla...	9.028	70	63564	1.64	ng/uL#	3
23) Nitrobenzene	9.086	77	224	0.00	ng/uL#	30
25) Isophorone	9.605	82	624	0.01	ng/uL#	58
26) 2-Chloroaniline	9.220	127	5316	0.09	ng/uL#	61
27) 2-Nitrophenol	0.000		0	N.D.		
28) 2,4-Dimethylphenol	9.815	107	63	0.00	ng/uL#	5
29) Bis(2-chlorethoxy)methane	10.048	93	243	0.00	ng/uL#	63
30) 2,4-Dichlorophenol	0.000		0	N.D.		
31) Benzoic Acid	10.596	105	1261	1.33	ng/uL#	1
32) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
33) Naphthalene	10.642	128	834	0.01	ng/uL#	74
34) 4-Chloroaniline	0.000		0	N.D.		
35) 2,6-Dichlorophenol	0.000		0	N.D.		
36) Hexachlorobutadiene	0.000		0	N.D.		
37) Caprolactam	11.528	55	454	0.73	ng/uL#	21
38) 1,2-Bis(2-chloroethoxy...	0.000		0	N.D.		
39) 4-Chloro-3-methylphenol	0.000		0	N.D.		
40) 2-Methylnaphthalene	12.408	142	120	0.00	ng/uL#	1
41) 1-Methylnaphthalene	12.496	142	169	0.00	ng/uL#	59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205374-01.D
Acq On : 30 May 2012 15:55
Operator : JLB
Sample : 1205374-01 Inst : 308
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 07:43:00 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,3 Dinitrobenzene	0.000		0	N.D.	
44) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
45) Hexachlorocyclopentadiene	13.003	237	123	0.57 ng/uL#	20
46) 2,4,6-Trichlorophenol	0.000		0	N.D.	
47) 2,4,5-Trichlorophenol	0.000		0	N.D.	
49) 2-Chloronaphthalene	0.000		0	N.D.	
50) 1,1'-Biphenyl	13.405	154	661	0.01 ng/uL#	1
51) 2-Nitroaniline	0.000		0	N.D.	
52) Acenaphthylene	14.373	152	71	0.00 ng/uL#	55
53) 2,6-Dinitrotoluene	14.297	165	617	0.39 ng/uL#	1
54) Dimethyl Phthalate	14.180	163	4517	0.06 ng/uL#	87
55) 3-Nitroaniline	0.000		0	N.D.	
56) Acenaphthene	14.786	153	87	0.00 ng/uL#	53
57) 2,4-Dinitrophenol	0.000		0	N.D.	
58) Dibenzofuran	15.229	168	117	0.00 ng/uL#	50
59) 4-Nitrophenol	15.224	65	114	1.32 ng/uL#	49
60) 2,4-Dinitrotoluene	15.363	165	528	0.53 ng/uL#	17
61) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.	
62) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
63) Fluorene	16.104	166	194	0.00 ng/uL#	1
64) Diethyl Phthalate	15.894	149	8618	0.30 ng/uL	91
65) 4-Chlorophenyl Phenyl ...	16.273	204	398	0.01 ng/uL#	3
66) 4-Nitroaniline	0.000		0	N.D.	
68) 4,6-Dinitro-2-methylph...	16.640	198	113	1.10 ng/uL#	1
69) N-Nitroso-diphenylamine	16.547	169	624	0.01 ng/uL#	68
70) 1,2-Diphenylhydrazine	16.582	182	166	0.01 ng/uL	91
72) 4-Bromophenyl Phenyl E...	0.000		0	N.D.	
73) Hexachlorobenzene	0.000		0	N.D.	
74) Atrazine	17.514	200	84	0.01 ng/uL#	25
75) Pentachlorophenol	0.000		0	N.D.	
76) Phenanthrene	18.138	178	1810	0.02 ng/uL#	87
77) Anthracene	18.231	178	396	0.00 ng/uL#	82
78) Carbazole	18.558	167	739	0.14 ng/uL#	62
80) Di-n-butyl Phthalate	19.187	149	10164	0.11 ng/uL#	94
81) Fluoroanthene	19.980	202	875	0.01 ng/uL#	62
83) Benzidine	19.799	184	181	0.09 ng/uL#	1
84) Pyrene	20.283	202	1631	0.02 ng/uL#	88
85) Butyl Benzyl Phthalate	21.122	149	548	0.30 ng/uL	96
86) Bis(2-ethylhexyl) adipate	21.157	129	900	0.22 ng/uL#	100
87) Benzo(a)anthracene	21.647	228	1868	0.03 ng/uL#	1
88) 3,3'-Dichlorobenzidine	21.332	252	55	0.15 ng/uL#	19
89) Chrysene	21.688	228	972	0.02 ng/uL#	1
90) Bis(2-ethylhexyl)phtha...	21.676	149	6338	0.69 ng/uL	96
91) Dicyclohexyl Phthalate	21.734	149	459	0.01 ng/uL#	100
92) Di-n-octyl Phthalate	22.375	149	619	0.29 ng/uL#	63
94) Benzo(b)fluoroanthene	22.912	252	660	0.01 ng/uL#	56
95) Benzo(k)fluoranthene	22.912	252	660	0.01 ng/uL#	58
96) Benzo(a)pyrene	23.337	252	965	0.02 ng/uL#	90
97) Indeno(1,2,3-cd)pyrene	25.173	276	514	0.01 ng/uL#	88
98) Dibenz(a,h)anthracene	25.196	278	69	0.00 ng/uL#	1
99) Benzo(g,h,i)Perylene	25.674	276	458	0.01 ng/uL#	42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205374-01.D
Acq On : 30 May 2012 15:55
Operator : JLB
Sample : 1205374-01 Inst : 308
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 07:43:00 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

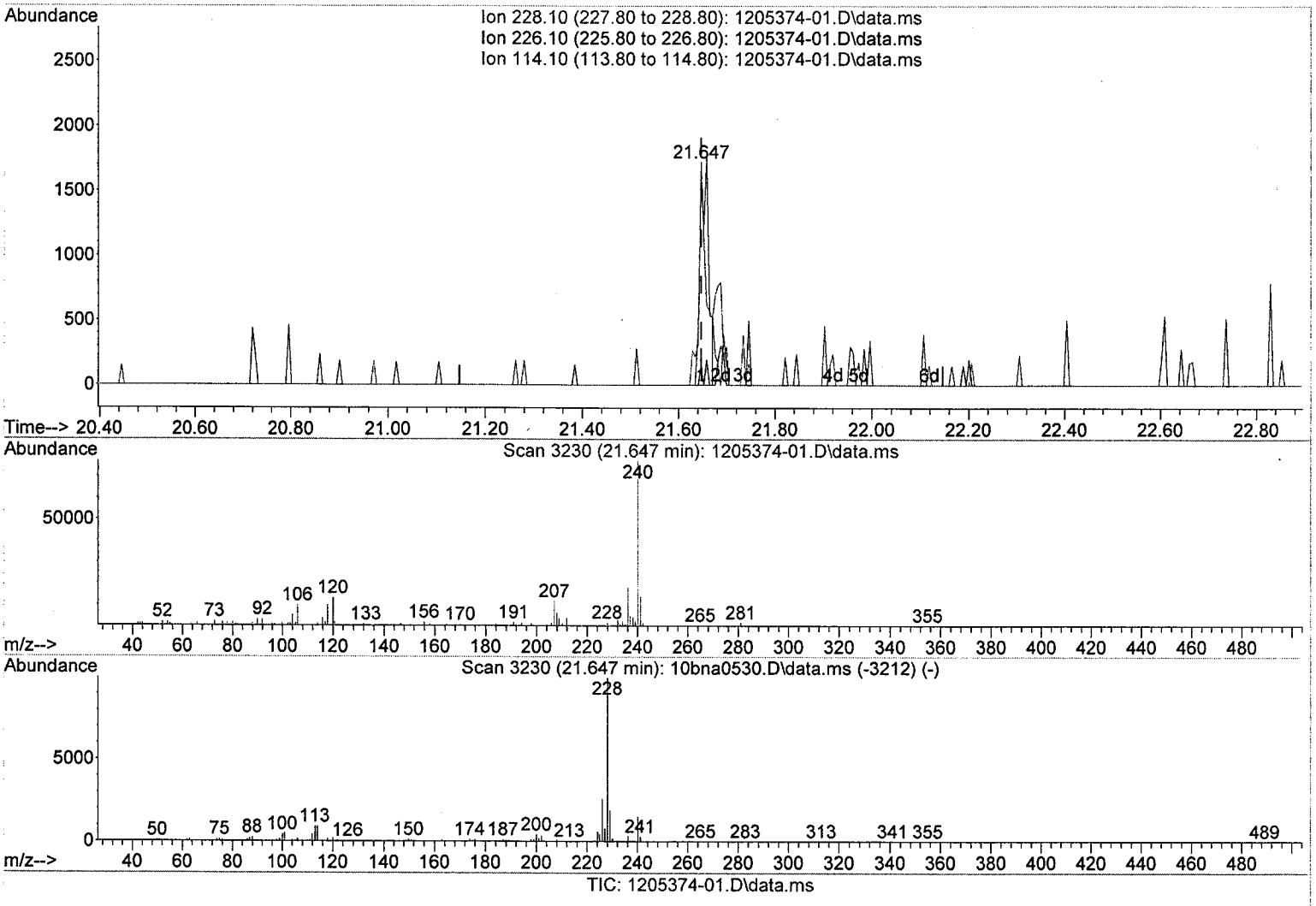
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1205374-01.D
Acq On : 30 May 2012 15:55
Operator : JLB
Sample : 1205374-01 Inst : 308
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 07:43:00 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1205374-01.D\data.ms

(87) Benzo(a)anthracene

21.647min (+0.000) 0.03 ng/uL

response 1868

Ion	Exp%	Act%
228.10	100	100
226.10	25.90	3.05#
114.10	13.30	123.98#
0.00	0.00	0.00

INITIAL CALIBRATION DATA
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2E23023

SDG: KNM050712

Project: KNM

Calibration Date: 05/01/12 15:41

Instrument: 195

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.5	0.9042801	1	1.029539	2	0.95493	5	0.9091418	10	0.9115597	15	0.9323773
Acenaphthylene	0.5	1.484421	1	1.683251	2	1.567854	5	1.52091	10	1.51353	15	1.567793
Anthracene	0.5	0.8181238	1	0.9586978	2	0.8993163	5	0.8895498	10	0.8968279	15	0.9045745
Benzo(a)anthracene	0.5	1.414441	1	1.316305	2	1.197343	5	1.168975	10	1.175506	15	1.244993
Benzo(a)pyrene	0.5	0.9639336	1	1.000782	2	0.9389438	5	0.9514988	10	0.9569876	15	1.018274
Benzo(b)fluoranthene	0.5	1.123872	1	1.096009	2	0.9749944	5	0.9326123	10	0.9215226	15	0.9968678
Benzo(k)fluoranthene	0.5	1.11726	1	1.197354	2	1.107303	5	1.109626	10	1.102642	15	1.144264
Benzo(g,h,i)perylene	0.5	0.8722222	1	0.9344617	2	0.8536544	5	0.8566748	10	0.8715236	15	0.9451876
Chrysene	0.5	1.455983	1	1.39843	2	1.27207	5	1.205388	10	1.208331	15	1.272382
Dibenz(a,h)anthracene	0.5	0.6430558	1	0.7866025	2	0.7275202	5	0.7743642	10	0.7921882	15	0.8538292
Fluoranthene	0.5	0.8268183	1	0.9388402	2	0.8705225	5	0.8975365	10	0.8914939	15	0.9149389
Fluorene	0.5	1.112408	1	1.226569	2	1.169432	5	1.100279	10	1.071802	15	1.08902
Indeno(1,2,3-cd)pyrene	0.5	0.8375615	1	0.9642409	2	0.908703	5	0.9759508	10	0.9891523	15	1.055555
2-Methylnaphthalene	0.5	0.5942658	1	0.7114848	2	0.6480454	5	0.6068661	10	0.6118539	15	0.6339301
Naphthalene	0.5	0.890125	1	1.041186	2	0.9332332	5	0.8801208	10	0.891228	15	0.9157136
Phenanthrene	0.5	0.9203676	1	0.9988297	2	0.9138653	5	0.875732	10	0.8676628	15	0.8767878
Pyrene	0.5	1.524694	1	1.65904	2	1.473535	5	1.447554	10	1.47659	15	1.525561
Nitrobenzene-d5	1	0.1361633	2.01	0.1428095	4.02	0.1372805	10	0.1329677	20.1	0.1391997	30.2	0.1473207
2-Fluorobiphenyl	1	1.252446	2	1.187231	4	1.21205	10	1.07516	20	1.019915	30	1.014899
o-Terphenyl	1.01	0.5356533	2.02	0.5185485	4.04	0.4936853	10.1	0.4532725	20.2	0.4368049	30.3	0.4238938

INITIAL CALIBRATION DATA (Continued)

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2E23023

SDG: KNM050712

Project: KNM

Calibration Date: 05/01/12 15:41

Instrument: 195

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	20	0.8977977	25	0.9262199								
Acenaphthylene	20	1.469937	25	1.484621								
Anthracene	20	0.8688428	25	0.8483092								
Benzo(a)anthracene	20	1.146297	25	1.166149								
Benzo(a)pyrene	20	0.9582402	25	0.9631016								
Benzo(b)fluoranthene	20	1.013559	25	0.9978046								
Benzo(k)fluoranthene	20	0.9720319	25	0.9854694								
Benzo(g,h,i)perylene	20	0.897029	25	0.9135136								
Chrysene	20	1.150362	25	1.191695								
Dibenz(a,h)anthracene	20	0.823399	25	0.841475								
Fluoranthene	20	0.8821657	25	0.8735993								
Fluorene	20	1.017791	25	1.039054								
Indeno(1,2,3-cd)pyrene	20	1.003851	25	1.027047								
2-Methylnaphthalene	20	0.5865724	25	0.6053843								
Naphthalene	20	0.8436535	25	0.8505688								
Phenanthrene	20	0.8340281	25	0.8127663								
Pyrene	20	1.416821	25	1.432318								
Nitrobenzene-d5	40.2	0.136611	50.2	0.1450079								
2-Fluorobiphenyl	40	0.9296883	50	0.932442								
o-Terphenyl	40.4	0.4005127	50.5	0.3981825								

INITIAL CALIBRATION DATA (Continued)

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2E23023

SDG: KNM050712

Project: KNM

Calibration Date: 05/01/12 15:41

Instrument: 195

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Acenaphthene	0.9332307	4.607033	8.7575	5.094769E-02			CCC (30)	
Acenaphthylene	1.53654	4.542598	8.5625	5.132299E-02			15	
Anthracene	0.8855303	4.725512	10.465	4.836625E-02			15	
Benzo(a)anthracene	1.228751	7.567386	13.31625	5.712826E-02			15	
Benzo(a)pyrene	0.9689702	2.749399	14.755	3.557813E-02			CCC (30)	
Benzo(b)fluoranthene	1.007155	7.088308	14.4375	4.775226E-02			15	
Benzo(k)fluoranthene	1.091994	6.997191	14.46625	4.973039E-02			15	
Benzo(g,h,i)perylene	0.8930334	3.934096	16.245	5.425922E-02			15	
Chrysene	1.26933	8.39645	13.36125	6.214182E-02			15	
Dibenz(a,h)anthracene	0.7803043	8.778436	15.93125	0.0392386			15	
Fluoranthene	0.8869894	3.73811	11.73375	4.642212E-02			CCC (30)	
Fluorene	1.103294	6.156524	9.335	0.0565094			15	
Indeno(1,2,3-cd)pyrene	0.9702577	7.12483	15.92125	3.778665E-02			15	
2-Methylnaphthalene	0.6248004	6.458335	7.54125	4.900993E-02			15	
Naphthalene	0.9057286	6.883664	6.7475	6.866624E-02			15	
Phenanthrene	0.887505	6.495209	10.4075	0.0662213			15	
Pyrene	1.494514	5.171497	11.98625	4.587767E-02			15	
Nitrobenzene-d5	0.13967	3.521997	5.90375	8.694972E-02			15	
2-Fluorobiphenyl	1.077979	11.67524	7.965	6.617272E-02			15	
o-Terphenyl	0.4575692	11.53065	10.81375	4.893236E-02			15	

Response Factor Report 195

Method Path : C:\MSDCHEM\1\METHODS\
Method File : VF050112.M
Title : 8270C/625 BNA
Last Update : Tue May 01 15:44:55 2012
Response Via : Initial Calibration

Calibration Files
1 =05BNA0501.D 2 =1BNA0501.D 3 =2BNA0501.D
4 =5BNA0501.D 5 =10BNA0501A.D 6 =15BNA0501R.D
7 =20BNA0501.D 8 =25BNA0501.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1)	I	1,4-Dichlorbenzene-d4	----------ISTD----------									
2)		N-Nitrosodimeth	0.649	0.792	0.738	0.716	0.777	0.814	0.793	0.761		7.40
3)		Pyridine	1.218	1.426	1.364	1.302	1.420	1.530	1.457	1.398		7.16
4)	S	2-Fluorophenol-	1.103	1.143	1.111	1.143	1.204	1.270	1.216	1.175		4.98
5)	S	d5-Phenol-surr	1.464	1.502	1.469	1.431	1.473	1.540	1.466	1.482		2.30
6)	C	Phenol	1.436	1.714	1.572	1.564	1.563	1.647	1.578	1.584		4.99
7)		Bis (2-chloroet	1.280	1.528	1.388	1.341	1.398	1.481	1.481	1.429		6.46
8)		2-Chlorophenol	1.197	1.507	1.336	1.313	1.357	1.457	1.398	1.373		6.97
9)		1,3-Dichloroben	1.484	1.853	1.612	1.538	1.541	1.613	1.538	1.592		7.12
10)	C	1,4-Dichloroben	1.486	1.717	1.570	1.523	1.518	1.616	1.542	1.566		4.61
11)		Benzaldehyde		0.024	0.019	0.011	0.009	0.010	0.013	-----		
									Q	A= 0.003 R=0.990		
										B= -0.001		
										C= 0.007		
12)		Benzyl Alcohol	0.641	0.779	0.734	0.781	0.800	0.896	0.839	0.791		9.96
13)		1,2-Dichloroben	1.429	1.695	1.539	1.464	1.428	1.485	1.429	1.490		6.13
14)		2-Methylphenol	1.002	1.299	1.163	1.194	1.223	1.309	1.257	1.217		8.29
15)		Bis-(2-chlorois	1.715	1.962	1.698	1.661	1.619	1.690	1.611	1.699		6.65
16)		Acetophenone	1.574	1.934	1.697	1.656	1.660	1.761	1.654	1.704		6.28
17)	P	4-Methylphenol	1.078	1.376	1.250	1.278	1.308	1.379	1.307	1.289		7.44
18)		N-Nitrosodi-n-p	0.787	0.956	0.864	0.815	0.801	0.838	0.781	0.833		6.81
19)	S	Decafluorobiphe	1.236	1.259	1.144	1.033	1.020	1.043	0.957	1.083		10.67
20)		Hexachloroethan	0.556	0.613	0.549	0.519	0.519	0.560	0.537	0.550		5.42
21)	I	Naphthalene-d8	----------ISTD----------									
22)	S	D5-Nitrobenzene	0.136	0.144	0.138	0.133	0.140	0.148	0.137	0.140		3.69
23)		Nitrobenzene	0.266	0.314	0.286	0.278	0.284	0.300	0.274	0.286		5.22
24)		Isophorone	0.492	0.608	0.551	0.521	0.538	0.567	0.516	0.542		6.54
25)		2-Chloroaniline	0.333	0.391	0.358	0.346	0.353	0.366	0.351	0.360		5.46

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26)	C	2-Nitrophenol	0.135	0.151	0.147	0.182	0.194	0.196	0.175	0.171	13.73
			0.189								
27)		2,4-Dimethylphe	0.253	0.309	0.281	0.272	0.277	0.297	0.273	0.281	5.99
			0.287								
28)		Benzoic Acid	0.088	0.115	0.126	0.155	0.190	0.212	0.204	-----	
			0.227								
								Q	A=	0.005	R=0.998
									B=	0.174	
									C=	-0.031	
29)		Bis(2-chloroeth	0.310	0.370	0.342	0.334	0.342	0.353	0.329	0.340	5.13
			0.336								
30)	C	2,4-Dichlorophe	0.192	0.242	0.229	0.235	0.247	0.252	0.237	0.235	8.02
			0.248								
31)		1,2,4-Trichloro	0.309	0.347	0.309	0.300	0.294	0.301	0.282	0.304	6.67
			0.285								
32)		Naphthalene	0.890	1.041	0.933	0.880	0.891	0.916	0.844	0.906	6.88
			0.851								
33)		4-Chloroaniline	0.107	0.164	0.141	0.142	0.105	0.106	0.113	-----	
								L	M=	0.107	R=0.992
									B=	0.011	
34)		2,6-Dichlorophe	0.212	0.242	0.227	0.226	0.234	0.251	0.235	0.234	5.34
			0.246								
35)	C	Hexachlorobutad	0.137	0.165	0.152	0.143	0.143	0.148	0.136	0.146	6.33
			0.142								
36)		Caprolactum	0.088	0.097	0.093	0.090	0.097	0.108	0.098	0.098	8.22
			0.111								
37)		1,2-bis(2-chlor	0.233	0.292	0.257	0.256	0.252	0.263	0.246	0.257	6.59
			0.255								
38)	C	4-Chloro-3-meth	0.179	0.235	0.221	0.220	0.234	0.253	0.230	0.227	9.92
			0.247								
39)		2-Methylnaphtha	0.594	0.711	0.648	0.607	0.612	0.634	0.587	0.625	6.46
			0.605								
40)		1-Methylnaphtha	0.574	0.693	0.603	0.580	0.579	0.606	0.564	0.599	6.78
			0.589								
41)		1,3-Dinitrobenz	0.062	0.085	0.084	0.092	0.102	0.116	0.107	-----	
			0.117								
								L	M=	0.116	R=0.996
									B=	-0.014	
42)	I	Acenaphthene-d10	----------ISTD----------								
43)	P	Hexachlorocyclo	0.190	0.205	0.213	0.220	0.236	0.257	0.248	0.228	11.08
			0.257								
44)		1,2,4,5-Tetrach	0.458	0.522	0.478	0.451	0.445	0.449	0.428	0.459	6.27
			0.445								
45)	C	2,4,6-Trichloro	0.247	0.257	0.274	0.270	0.286	0.311	0.295	0.281	8.12
			0.306								
46)		2,4,5-Trichloro	0.231	0.279	0.268	0.263	0.291	0.317	0.302	0.283	10.38
			0.316								
47)	S	2-Fluorobipheny	1.252	1.187	1.212	1.075	1.020	1.015	0.930	1.078	11.68
			0.932								
48)		2-Chloronaphtha	0.951	1.125	1.037	0.948	0.946	0.966	0.898	0.975	7.42
			0.929								
49)		Biphenyl	1.224	1.387	1.297	1.232	1.219	1.239	1.157	1.241	5.82
			1.177								
50)		2-Nitroaniline	0.227	0.244	0.257	0.280	0.300	0.333	0.311	0.285	13.94
			0.330								
51)		Dimethylphthala	1.157	1.161	1.137	1.078	1.044	1.089	1.012	1.092	4.99
			1.063								
52)		2,6-Dinitrotolu	0.201	0.216	0.271	0.228	0.243	0.265	0.249	0.243	10.78
			0.270								

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53)		Acenaphthylene	1.484	1.683	1.568	1.521	1.514	1.568	1.470	1.537	4.54
			1.485								
54)	C	Acenaphthene	0.904	1.030	0.955	0.909	0.912	0.932	0.898	0.933	4.61
			0.926								
55)	P	4-Nitrophenol	0.114	0.119	0.089	0.116	0.131	0.147	0.135	-----	
			0.147								
								Q A= 0.002 R=0.997			
								B= 0.130			
								C= -0.016			
56)		2,4-Dinitrotolu	0.200	0.263	0.279	0.288	0.297	0.317	0.298	0.283	13.58
			0.322								
57)	P	2,4-Dinitrophen	0.036	0.050	0.056	0.087	0.113	0.140	0.137	-----	
			0.157								
								Q A= 0.006 R=0.997			
								B= 0.097			
								C= -0.026			
58)		Dibenzofuran	1.415	1.518	1.451	1.355	1.315	1.327	1.254	1.364	6.64
			1.277								
59)		2,3,5,6-Tetrach	0.191	0.206	0.211	0.224	0.240	0.258	0.246	0.230	11.12
			0.261								
60)		2,3,4,6-Tetrach	0.175	0.231	0.229	0.229	0.241	0.259	0.247	0.234	11.46
			0.259								
61)		Diethylphthalat	1.454	1.128	1.018	1.019	0.981	1.014	0.953	-----	
			0.985								
								L M= 0.970 R=0.999			
								B= 0.038			
62)		4-Chlorophenyl	0.589	0.597	0.541	0.518	0.502	0.515	0.480	0.530	8.09
			0.496								
63)		Fluorene	1.112	1.227	1.169	1.100	1.072	1.089	1.018	1.103	6.16
			1.039								
64)	S	2,4,6-Tribromop	0.112	0.104	0.114	0.112	0.119	0.125	0.114	0.115	5.74
			0.122								
65)	I	Phenanthrene-d10	----------ISTD----------								
66)		4,6-Dinitro-2-m	0.033	0.055	0.053	0.074	0.092	0.110	0.107	-----	
			0.114								
								Q A= 0.005 R=0.998			
								B= 0.093			
								C= -0.013			
67)		1,2-Diphenylhyd	0.539	0.621	0.584	0.566	0.567	0.571	0.547	0.568	4.57
			0.548								
68)		N-nitroso-diphe	0.530	0.623	0.584	0.560	0.549	0.565	0.542	0.560	5.67
			0.525								
69)		4-Bromophenyl p	0.163	0.192	0.172	0.172	0.173	0.174	0.170	0.173	5.06
			0.166								
70)		Hexachlorobenze	0.200	0.222	0.189	0.185	0.178	0.176	0.173	0.187	9.21
			0.171								
71)		Atrazine	0.134	0.151	0.145	0.150	0.151	0.161	0.153	0.150	5.54
			0.158								
72)	C	Pentachlorophen	0.089	0.083	0.085	0.094	0.104	0.119	0.116	-----	
			0.120								
								L M= 0.121 R=0.997			
								B= -0.015			
73)		Phenanthrene	0.920	0.999	0.914	0.876	0.868	0.877	0.834	0.888	6.50
			0.813								
74)		Anthracene	0.818	0.959	0.899	0.890	0.897	0.905	0.869	0.886	4.73
			0.848								
75)		Carbazole	0.747	0.809	0.769	0.755	0.594	0.595	0.484	-----	
			0.460								
								Q A= -0.055 R=0.995			
								B= 0.721			

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									C= 0.027		
76)	S	o-Terphenyl-sur	0.541	0.524	0.499	0.458	0.441	0.428	0.405	0.462	11.53
			0.402								
77)		Di-n-butylphtha	0.816	0.889	0.849	0.895	0.917	0.939	0.906	0.887	4.37
			0.888								
78)	C	Fluoranthene	0.827	0.939	0.871	0.898	0.891	0.915	0.882	0.887	3.74
			0.874								
79)	I	Chrysene-d12	----------ISTD----------								
80)		Benzidine	0.294	0.357	0.340	0.286	0.297	0.319	0.274	0.307	9.38
			0.291								
81)		Pyrene	1.525	1.659	1.474	1.448	1.477	1.526	1.417	1.495	5.17
			1.432								
82)		Butyl Benzyl Ph	0.524	0.532	0.507	0.536	0.595	0.648	0.625	0.577	10.27
			0.652								
83)		Bis(2-ethylhexy	0.404	0.478	0.445	0.476	0.523	0.572	0.567	0.507	13.11
			0.589								
84)		Bis(2-ethylhexy	0.637	0.714	0.674	0.715	0.769	0.807	0.786	0.741	8.90
			0.823								
85)		Dicyclohexylpht	0.961	1.054	1.012	0.998	1.037	1.057	1.009	1.020	3.11
			1.030								
86)		3,3' Dichlorobe	0.359	0.362	0.346	0.321	0.341	0.368	0.343	0.349	4.23
			0.353								
87)		Benzo(a)anthrac	1.414	1.316	1.197	1.169	1.176	1.245	1.146	1.229	7.57
			1.166								
88)		Chrysene	1.456	1.398	1.272	1.205	1.208	1.272	1.150	1.269	8.40
			1.192								
89)	C	Di-n-octylphtha	0.954	1.015	0.945	1.100	1.274	1.405	1.383	-----	
			1.428								
									L M= 1.444 R=0.998		
									B= -0.183		
90)	I	Perylene-d12	----------ISTD----------								
91)		Benzo(b)fluoroa	1.124	1.096	0.975	0.933	0.922	0.997	1.014	1.007	7.09
			0.998								
92)		Benzo(k)fluoroa	1.117	1.197	1.107	1.110	1.103	1.144	0.972	1.092	7.00
			0.985								
93)	C	Benzo(a)pyrene	0.964	1.001	0.939	0.951	0.957	1.018	0.958	0.969	2.75
			0.963								
94)		Indeno(1,2,3-cg	0.838	0.964	0.909	0.976	0.989	1.056	1.004	0.970	7.12
			1.027								
95)		Dibenzo(a,h)ant	0.643	0.787	0.728	0.774	0.792	0.854	0.823	0.780	8.78
			0.841								
96)		Benzo(g,h,i)per	0.872	0.934	0.854	0.857	0.872	0.945	0.897	0.893	3.93
			0.914								

Total Average %RSD 7.17

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

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Total Cpnds : 96

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorbenzene-d4	152	5.24	1.000	A	2	A	B
2		N-Nitrosodimethylamine	74	2.64	0.503	A	1	A	B
3		Pyridine	79	2.70	0.515	A	1	A	B
4	S	2-Fluorophenol-surr	112	3.76	0.718	A	2	A	B
5	S	d5-Phenol-surr	99	4.82	0.920	A	1	A	B
6	C	Phenol	94	4.83	0.922	A	1	A	B
7		Bis (2-chloroethyl)ether	93	4.95	0.944	A	1	A	B
8		2-Chlorophenol	128	4.99	0.953	A	1	A	B
9		1,3-Dichlorobenzene	146	5.17	0.988	A	2	A	R
10	C	1,4-Dichlorobenzene	146	5.26	1.004	A	2	A	R
11		Benzaldehyde	105	5.54	1.058	Q	1	A	B
12		Benzyl Alcohol	108	5.42	1.034	A	2	A	B
13		1,2-Dichlorobenzene	146	5.44	1.038	A	2	A	R
14		2-Methylphenol	108	5.54	1.058	A	2	A	B
15		Bis-(2-chloroisopropyl)-ether	45	5.56	1.062	A	2	A	B
16		Acetophenone	105	5.73	1.093	A	1	A	B
17	P	4-Methylphenol	107	5.73	1.093	A	2	A	B
18		N-Nitrosodi-n-propylamine	70	5.73	1.094	A	2	A	B
19	S	Decafluorobiphenyl	334	5.95	1.137	A	1	A	B
20		Hexachloroethane	117	5.82	1.111	A	2	A	B
21	I	Naphthalene-d8	136	6.72	1.000	A	1	A	B
22	S	D5-Nitrobenzene-surr	128	5.90	0.878	A	2	A	B
23		Nitrobenzene	77	5.93	0.881	A	2	A	B
24		Isophorone	82	6.21	0.923	A	2	A	B
25		2-Chloroaniline	127	6.25	0.930	A	1	A	B
26	C	2-Nitrophenol	139	6.29	0.936	A	2	A	B
27		2,4-Dimethylphenol	107	6.34	0.944	A	1	A	B
28		Benzoic Acid	105	6.51	0.969	Q	2	A	B
29		Bis(2-chloroethoxy)methane	93	6.46	0.961	A	1	A	B
30	C	2,4-Dichlorophenol	162	6.57	0.977	A	2	A	B
31		1,2,4-Trichlorobenzene	180	6.66	0.990	A	2	A	B
32		Naphthalene	128	6.75	1.003	A	1	A	B
33		4-Chloroaniline	127	6.84	1.017	L	2	A	B
34		2,6-Dichlorophenol	162	6.83	1.016	A	2	A	B
35	C	Hexachlorobutadiene	225	6.89	1.025	A	2	A	B
36		Caprolactum	55	7.25	1.079	A	2	A	B
37		1,2-bis(2-chloroethoxy)ethane	63	7.30	1.086	A	1	A	B
38	C	4-Chloro-3-methylphenol	107	7.40	1.100	A	2	A	B
39		2-Methylnaphthalene	142	7.54	1.121	A	3	A	R
40		1-Methylnaphthalene	142	7.65	1.139	A	1	A	R
41		1,3-Dinitrobenzene	168	8.48	1.261	L	0	A	B
42	I	Acenaphthene-d10	164	8.72	1.000	A	2	A	B
43	P	Hexachlorocyclopentadiene	237	7.72	0.885	A	2	A	B
44		1,2,4,5-Tetrachlorobenzene	216	7.74	0.887	A	2	A	B
45	C	2,4,6-Trichlorophenol	196	7.88	0.903	A	2	A	R
46		2,4,5-Trichlorophenol	198	7.91	0.907	A	2	A	R
47	S	2-Fluorobiphenyl-surr	172	7.97	0.914	A	2	A	B
48		2-Chloronaphthalene	162	8.10	0.929	A	2	A	B
49		Biphenyl	154	8.07	0.926	A	1	A	B
50		2-Nitroaniline	138	8.24	0.945	A	2	A	B
51		Dimethylphthalate	163	8.44	0.968	A	2	A	B
52		2,6-Dinitrotoluene	165	8.51	0.976	A	2	A	B
53		Acenaphthylene	152	8.56	0.982	A	2	A	B
54	C	Acenaphthene	154	8.76	1.005	A	2	A	B

55	P	4-Nitrophenol	65	8.90	1.021	Q	2	A	B
56		2,4-Dinitrotoluene	165	8.96	1.027	A	2	A	B
57	P	2,4-Dinitrophenol	184	8.82	1.011	Q	2	A	B
58		Dibenzofuran	168	8.95	1.027	A	2	A	B
59		2,3,5,6-Tetrachlorophenol	232	9.05	1.037	A	2	A	R
60		2,3,4,6-Tetrachlorophenol	232	9.10	1.043	A	2	A	R
61		Diethylphthalate	149	9.22	1.057	L	1	A	B
62		4-Chlorophenyl phenyl ether	204	9.34	1.071	A	2	A	B
63		Fluorene	166	9.34	1.071	A	2	A	B
64	S	2,4,6-Tribromophenol	330	9.61	1.102	A	2	A	B
65	I	Phenanthrene-d10	188	10.38	1.000	A	1	A	B
66		4,6-Dinitro-2-methyl-phenol	198	9.41	0.906	Q	2	A	B
67		1,2-Diphenylhydrazine	77	9.52	0.917	A	2	A	B
68		N-nitroso-diphenylamine	169	9.48	0.913	A	2	A	B
69		4-Bromophenyl phenyl ether	248	9.88	0.952	A	2	A	B
70		Hexachlorobenzene	284	9.95	0.958	A	2	A	B
71		Atrazine	200	10.08	0.971	A	1	A	B
72	C	Pentachlorophenol	266	10.18	0.980	L	2	A	B
73		Phenanthrene	178	10.41	1.003	A	2	A	R
74		Anthracene	178	10.47	1.008	A	2	A	R
75		Carbazole	167	10.66	1.027	Q	2	A	B
76	S	o-Terphenyl-surr	230	10.81	1.042	A	2	A	B
77		Di-n-butylphthalate	149	11.04	1.063	A	1	A	B
78	C	Fluoranthene	202	11.73	1.130	A	2	A	R
79	I	Chrysene-d12	240	13.33	1.000	A	2	A	B
80		Benzidine	184	11.90	0.893	A	1	A	B
81		Pyrene	202	11.99	0.899	A	1	A	R
82		Butyl Benzyl Phthalate	149	12.71	0.953	A	1	A	B
83		Bis(2-ethylhexyl)adipate	129	12.77	0.958	A	2	A	B
84		Bis(2-ethylhexyl)phthalate	149	13.33	1.000	A	1	A	B
85		Dicyclohexylphthalate	149	13.37	1.003	A	2	A	B
86		3,3' Dichlorobenzidine	252	13.31	0.998	A	1	A	B
87		Benzo(a)anthracene	228	13.32	0.999	A	2	A	R
88		Chrysene	228	13.36	1.002	A	2	A	R
89	C	Di-n-octylphthalate	149	14.01	1.051	L	1	A	B
90	I	Perylene-d12	264	14.81	1.000	A	2	A	B
91		Benzo(b)fluoroanthene	252	14.44	0.975	A	2	A	R
92		Benzo(k)fluoroanthene	252	14.47	0.977	A	2	A	R
93	C	Benzo(a)pyrene	252	14.76	0.996	A	2	A	R
94		Indeno(1,2,3-cg)pyrene	276	15.93	1.075	A	1	A	B
95		Dibenzo(a,h)anthracene	278	15.94	1.076	A	2	A	B
96		Benzo(g,h,i)perylene	276	16.25	1.097	A	2	A	B

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

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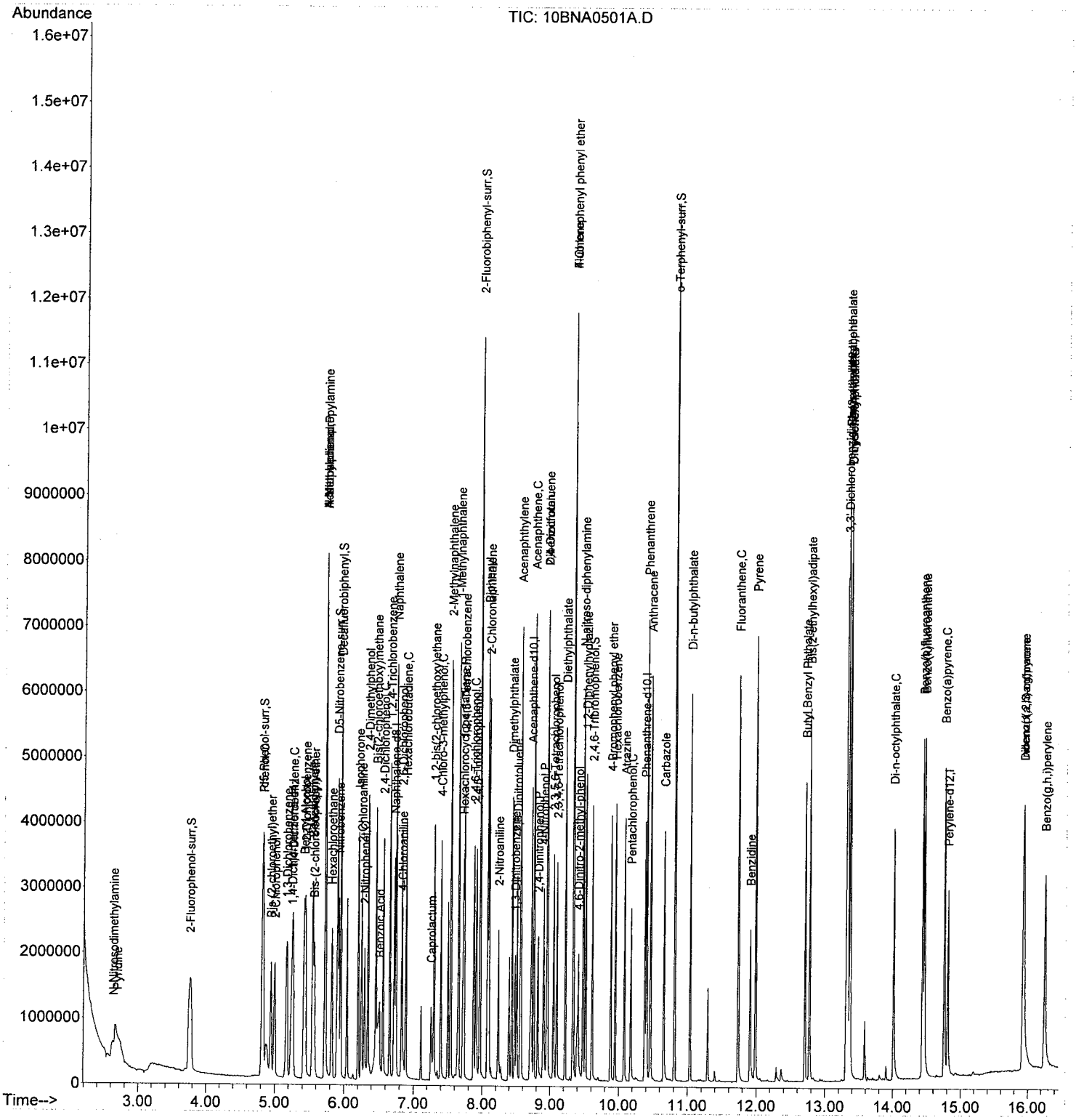
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:44:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration



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Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:44:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.24	152	362232	5.00	ug/l	0.00 69.92%
21) Naphthalene-d8	6.72	136	1571264	5.00	ug/l	0.00 70.71%
42) Acenaphthene-d10	8.72	164	900280	5.00	ug/l	0.00 68.57%
65) Phenanthrene-d10	10.38	188	1451803	5.00	ug/l	0.00 66.81%
79) Chrysene-d12	13.33	240	888866	5.00	ug/l	0.00 65.07%
90) Perylene-d12	14.81	264	1051882	5.00	ug/l	0.00 66.61%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.76	112	1744334	22.46	ug/l	0.00
5) d5-Phenol-surr	4.82	99	2134581	20.95	ug/l	0.00
19) Decafluorobiphenyl	5.95	334	1477333	20.64	ug/l	0.00
22) D5-Nitrobenzene-surr	5.90	128	879252	20.78	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.97	172	3672835m	20.82	ug/l	0.00
64) 2,4,6-Tribromophenol	9.61	330	427729	21.73	ug/l	0.00
76) o-Terphenyl-surr	10.81	230	2561985	20.26	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.64	74	563109	11.85	ug/l #	76
3) Pyridine	2.70	79	1028412	11.73	ug/l #	65
6) Phenol	4.83	94	1132674	11.61	ug/l #	55
7) Bis (2-chloroethyl)ether	4.95	93	1013130	11.12	ug/l #	72
8) 2-Chlorophenol	4.99	128	983227	11.60	ug/l #	86
9) 1,3-Dichlorobenzene	5.17	146	1116753	10.92	ug/l #	88
10) 1,4-Dichlorobenzene	5.26	146	1099939	11.07	ug/l #	90
11) Benzaldehyde	5.54	105	6473	2.20	ug/l #	1
12) Benzyl Alcohol	5.42	108	579637	11.37	ug/l	92
13) 1,2-Dichlorobenzene	5.44	146	1034383	10.91	ug/l #	88
14) 2-Methylphenol	5.54	108	885944	11.80	ug/l #	93
15) Bis-(2-chloroisopropyl)-et	5.56	45	1172565	10.79	ug/l	93
16) Acetophenone	5.73	105	1202850	11.13	ug/l	84
17) 4-Methylphenol	5.73	107	947855	11.97	ug/l	91
18) N-Nitrosodi-n-propylamine	5.73	70	580230	11.58	ug/l #	87
20) Hexachloroethane	5.82	117	376035	10.98	ug/l	90
23) Nitrobenzene	5.93	77	893922	10.96	ug/l #	91
24) Isophorone	6.21	82	1689330	11.56	ug/l #	92
25) 2-Chloroaniline	6.25	127	1108887	11.52	ug/l #	100
26) 2-Nitrophenol	6.29	139	610199	12.17	ug/l #	72
27) 2,4-Dimethylphenol	6.34	107	869570	11.37	ug/l	91
28) Benzoic Acid	6.51	105	1195209	28.13	ug/l	90
29) Bis(2-chloroethoxy)methane	6.46	93	1075304	11.21	ug/l	93
30) 2,4-Dichlorophenol	6.57	162	776049	11.55	ug/l	96
31) 1,2,4-Trichlorobenzene	6.66	180	925021	10.73	ug/l	99
32) Naphthalene	6.75	128	2800709	11.12	ug/l	96
33) 4-Chloroaniline	6.84	127	331428	11.93	ug/l #	43
34) 2,6-Dichlorophenol	6.83	162	736546	11.15	ug/l	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:44:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.89	225	450176	10.99	ug/l		98
36) Caprolactum	7.25	55	303815	11.80	ug/l		92
37) 1,2-bis(2-chloroethoxy)eth	7.30	63	793073	10.71	ug/l		94
38) 4-Chloro-3-methylphenol	7.40	107	736662	11.71	ug/l		87
39) 2-Methylnaphthalene	7.54	142	1922768	10.93	ug/l		95
40) 1-Methylnaphthalene	7.65	142	1820759	10.82	ug/l		90
41) 1,3-Dinitrobenzene	8.48	168	319566	11.59	ug/l		100
43) Hexachlorocyclopentadiene	7.72	237	424728	10.61	ug/l		99
44) 1,2,4,5-Tetrachlorobenzene	7.74	216	800897	10.96	ug/l		99
45) 2,4,6-Trichlorophenol	7.88	196	514126	11.82	ug/l		94
46) 2,4,5-Trichlorophenol	7.91	198	524074	11.28	ug/l		94
48) 2-Chloronaphthalene	8.10	162	1702889	11.15	ug/l		100
49) Biphenyl	8.07	154	2195482	11.27	ug/l		95
50) 2-Nitroaniline	8.24	138	540232	12.31	ug/l	#	80
51) Dimethylphthalate	8.44	163	1879125	11.22	ug/l	#	91
52) 2,6-Dinitrotoluene	8.51	165	436920m	11.47	ug/l	#	87
53) Acenaphthylene	8.56	152	2725201	11.20	ug/l		98
54) Acenaphthene	8.76	154	1641318	11.08	ug/l		97
55) 4-Nitrophenol	8.90	65	472346	23.21	ug/l	#	78
56) 2,4-Dinitrotoluene	8.96	165	534742	12.34	ug/l	#	74
57) 2,4-Dinitrophenol	8.82	184	406380	29.30	ug/l	#	82
58) Dibenzofuran	8.95	168	2368524	10.98	ug/l	#	98
59) 2,3,5,6-Tetrachlorophenol	9.05	232	432983	11.58	ug/l		96
60) 2,3,4,6-Tetrachlorophenol	9.10	232	434699	11.30	ug/l		99
61) Diethylphthalate	9.22	149	1766090	10.34	ug/l		100
62) 4-Chlorophenyl phenyl ethe	9.34	204	903164	10.73	ug/l	#	91
63) Fluorene	9.34	166	1929843	11.15	ug/l	#	97
66) 4,6-Dinitro-2-methyl-pheno	9.41	198	265981	14.19	ug/l		87
67) 1,2-Diphenylhydrazine	9.52	77	1647000	11.82	ug/l	#	86
68) N-nitroso-diphenylamine	9.48	169	1594409	11.33	ug/l	#	96
69) 4-Bromophenyl phenyl ether	9.88	248	503386	11.18	ug/l		99
70) Hexachlorobenzene	9.95	284	516684	10.64	ug/l		92
71) Atrazine	10.08	200	438822	11.94	ug/l		99
72) Pentachlorophenol	10.18	266	300961	12.20	ug/l		93
73) Phenanthrene	10.41	178	2519351	11.16	ug/l		98
74) Anthracene	10.47	178	2604035	11.77	ug/l		97
75) Carbazole	10.66	167	1725358	10.17	ug/l	#	93
77) Di-n-butylphthalate	11.04	149	2663721	12.97	ug/l		99
78) Fluoranthene	11.73	202	2588547	11.58	ug/l		95
80) Benzidine	11.90	184	1054590	25.61	ug/l	#	95
81) Pyrene	11.99	202	2624982	11.12	ug/l		100
82) Butyl Benzyl Phthalate	12.71	149	1058120m	13.60	ug/l	#	98
83) Bis(2-ethylhexyl)adipate	12.77	129	928881	13.54	ug/l	#	88
84) Bis(2-ethylhexyl)phthalate	13.33	149	1367923	13.94	ug/l		99
85) Dicyclohexylphthalate	13.37	149	1842870	12.69	ug/l	#	84
86) 3,3' Dichlorobenzidine	13.31	252	1213455	25.42	ug/l		99
87) Benzo(a)anthracene	13.32	228	2089734	11.73	ug/l		99
88) Chrysene	13.36	228	2148088	10.90	ug/l	#	91
89) Di-n-octylphthalate	14.01	149	2265564	15.19	ug/l	#	100
91) Benzo(b)fluoroanthene	14.44	252	1938666	11.28	ug/l		98
92) Benzo(k)fluoroanthene	14.47	252	2319698	10.98	ug/l		98
93) Benzo(a)pyrene	14.76	252	2013276	11.70	ug/l		99

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:44:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration

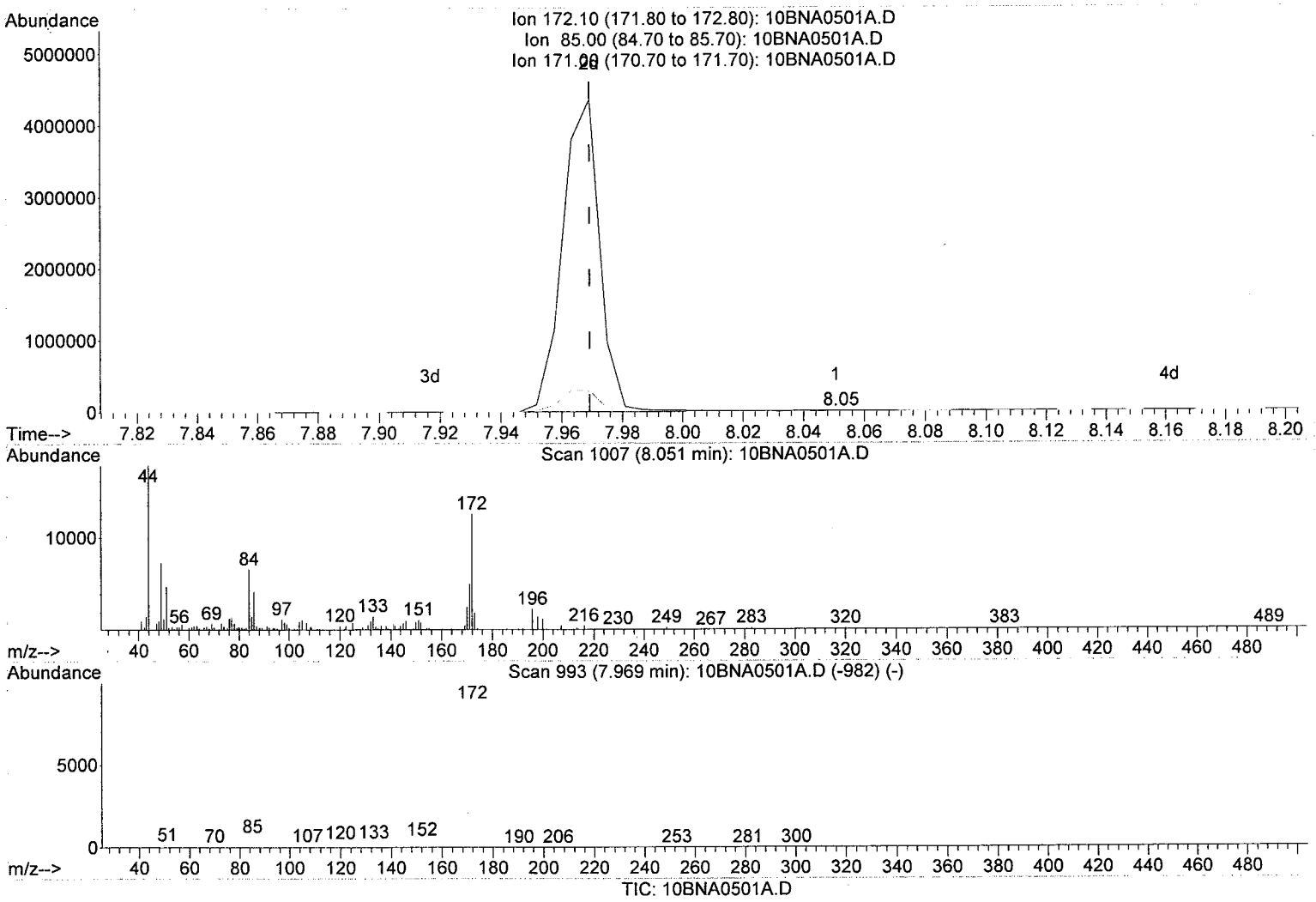
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.93	276	2080943	11.69	ug/l	97
95) Dibenzo(a,h)anthracene	15.94	278	1666577	11.47	ug/l	95
96) Benzo(g,h,i)perylene	16.25	276	1833480	10.87	ug/l	99

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

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:42:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration



TIC: 10BNA0501A.D

(47) 2-Fluorobiphenyl-surr (S)

8.05min (+0.082) 0.15ug/l

response 26426

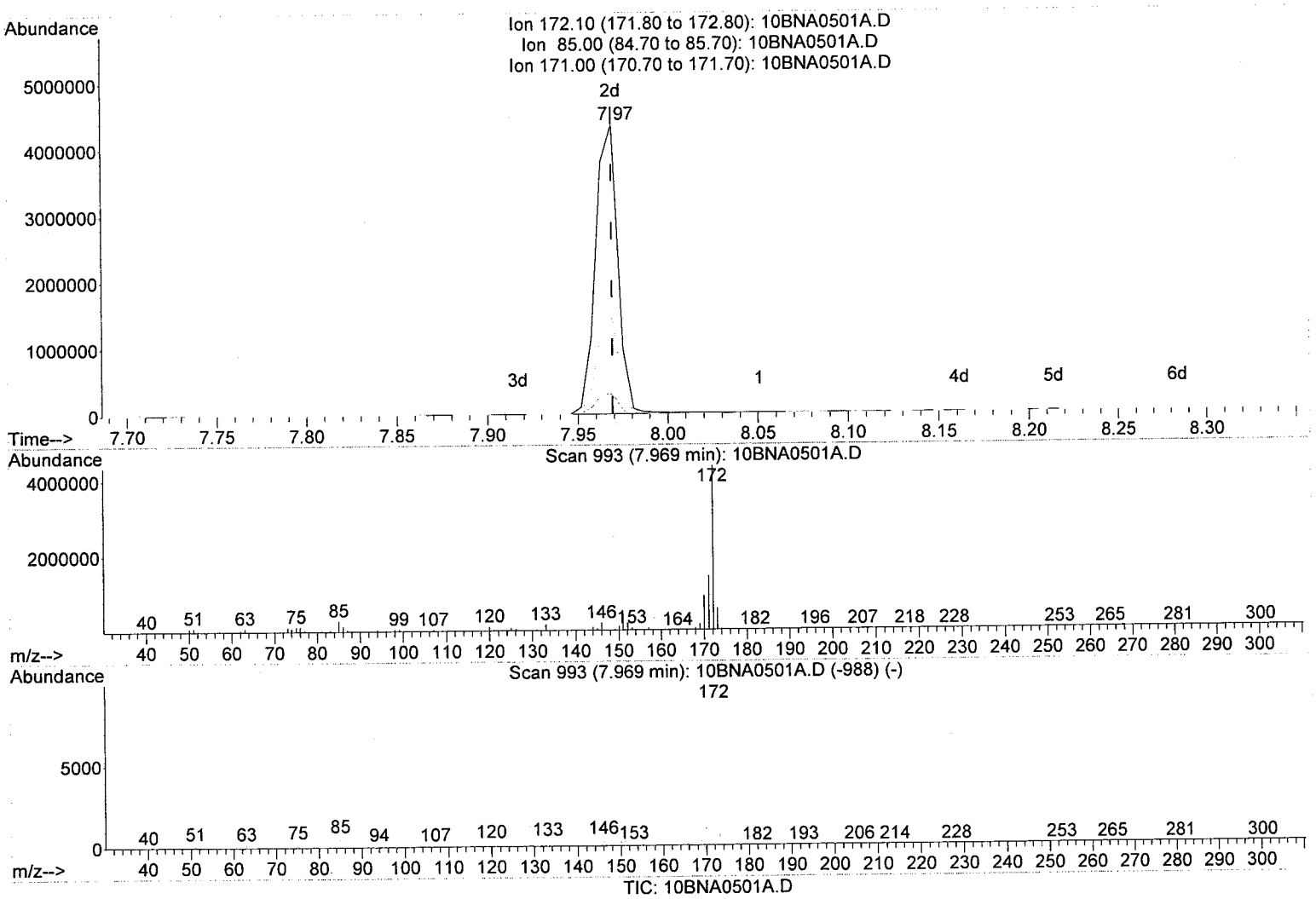
Ion	Exp%	Act%
172.10	100	100
85.00	9.50	8.03
171.00	33.80	35.93
0.00	0.00	0.00

C 5/1
JWS 5/10/12

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:44:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration



(47) 2-Fluorobiphenyl-surr (S)

7.97min (0.000) 20.82ug/l m

response 3672835

Ion	Exp%	Act%
172.10	100	100
85.00	9.50	0.06#
171.00	33.80	0.26#
0.00	0.00	0.00

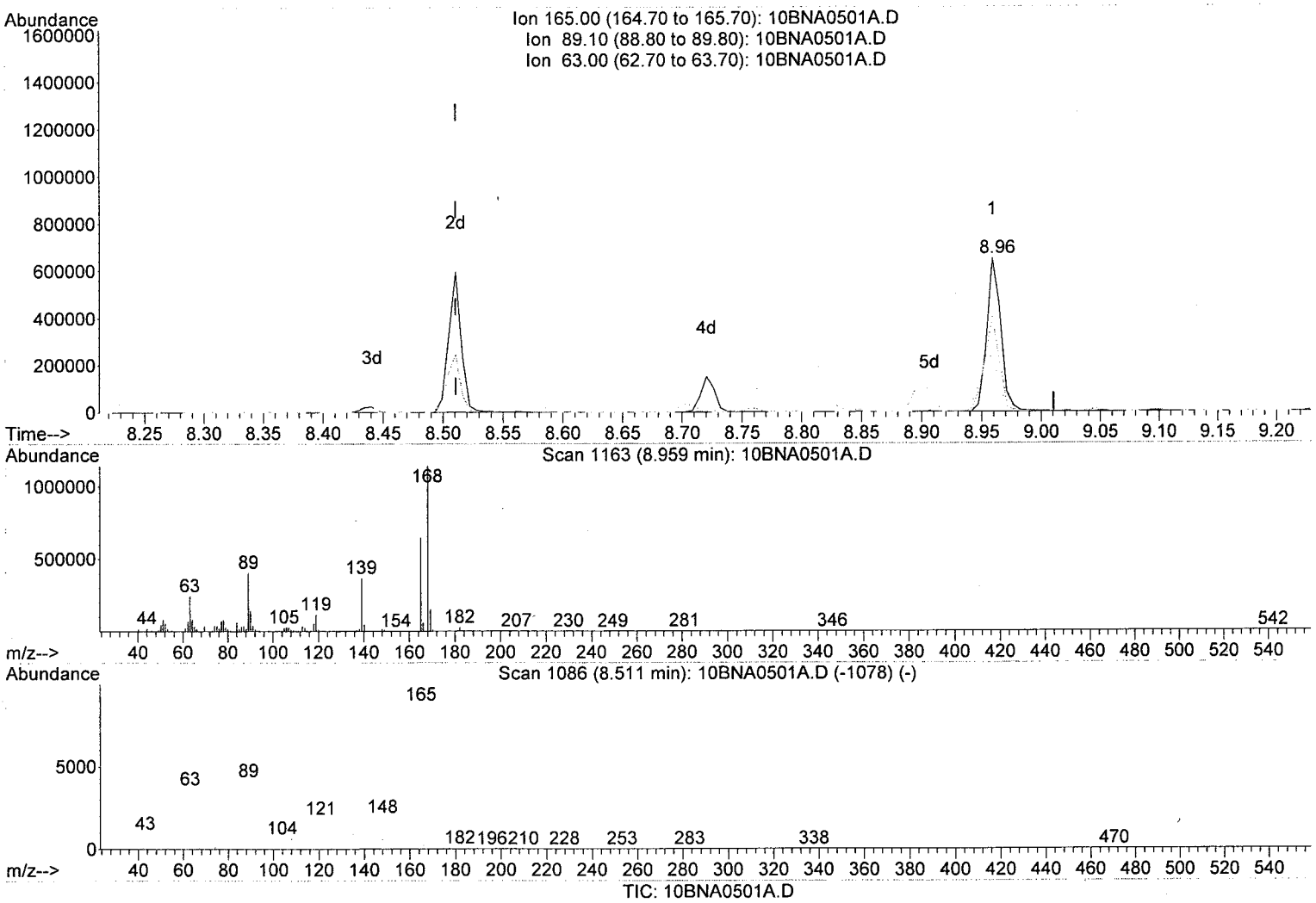
Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No
Analyst: L Date: 5/10/12
Reviewed By: JMB Date: 5/10/12

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:42:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration



(52) 2,6-Dinitrotoluene

8.96min (+0.448) 13.85ug/l

response 527320

Ion	Exp%	Act%
165.00	100	100
89.10	59.10	66.71
63.00	58.70	47.27
0.00	0.00	0.00

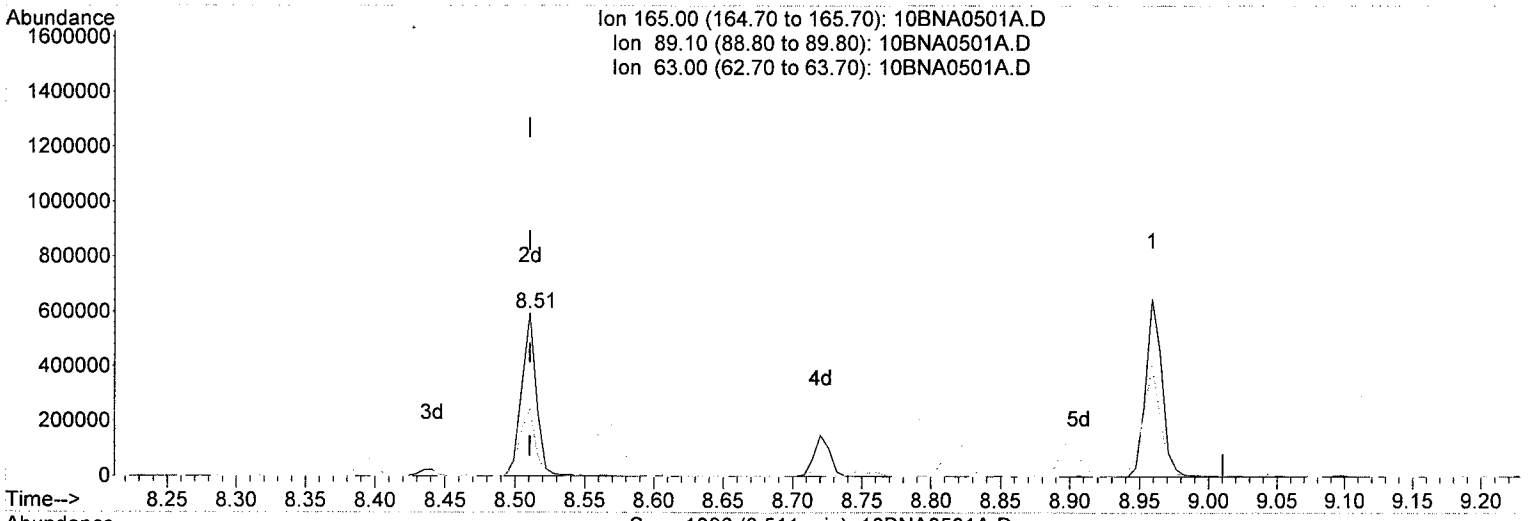
5-1-12

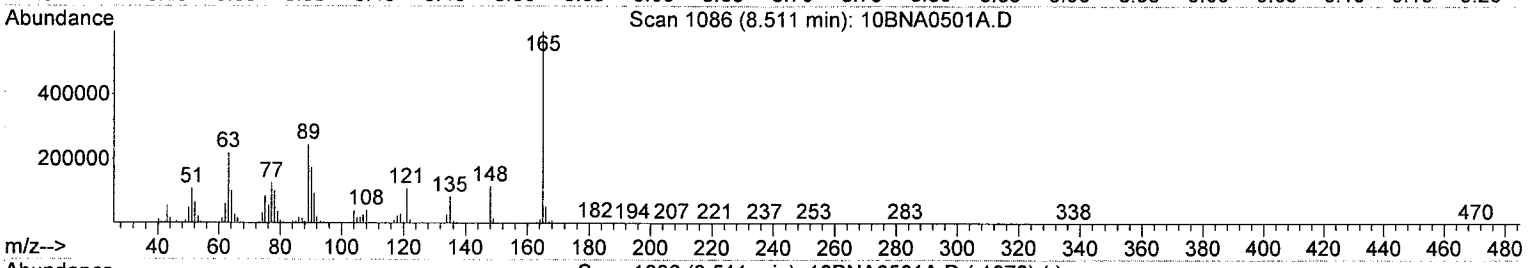
00841

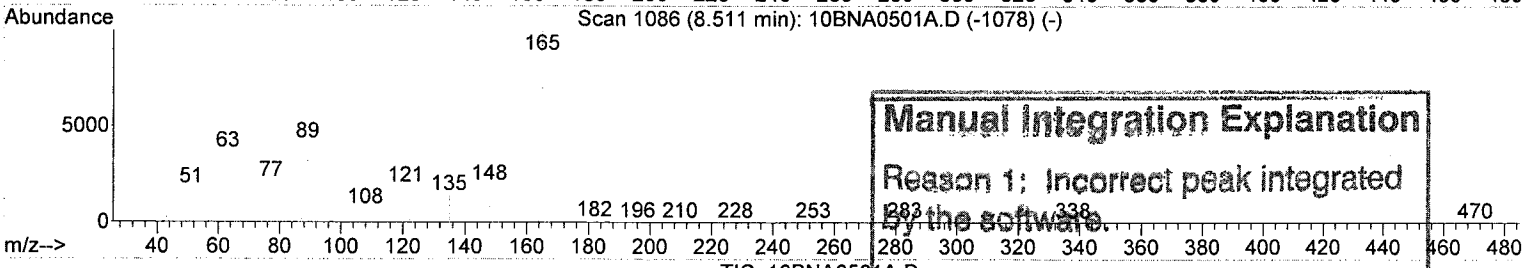
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:42:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration







Manual Integration Explanation

Reason 1: Incorrect peak integrated by the software.

Flagged on Quantitation Report: Yes / No
Analyst: C Date: 5/3/12
Reviewed By: JWB Date: 5/10/12

(52) 2,6-Dinitrotoluene

8.51min (0.000) 11.47ug/l m

response 436920

Ion	Exp%	Act%
165.00	100	100
89.10	59.10	80.51#
63.00	58.70	57.05
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: ~~The~~ incorrect peak was not integrated during initial quantitation of the sample.

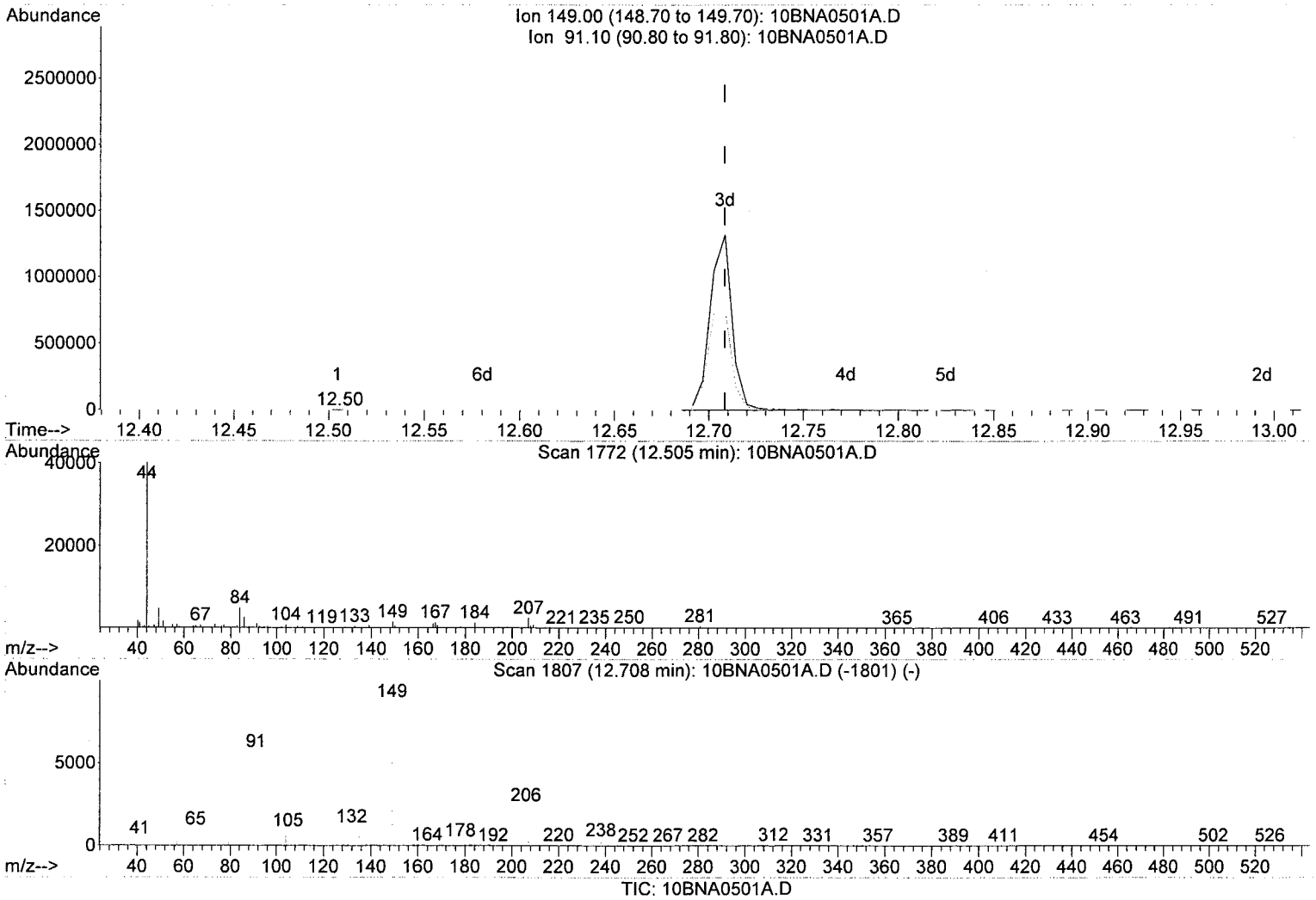
Flagged on Quantitation Report: Yes / No
Analyst: C Date: 5/3/12
Reviewed By: Date:

00842

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:42:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration



(82) Butyl Benzyl Phthalate

12.50min (-0.204) 0.02ug/l

response 1474

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	82.70
0.00	0.00	0.00
0.00	0.00	0.00

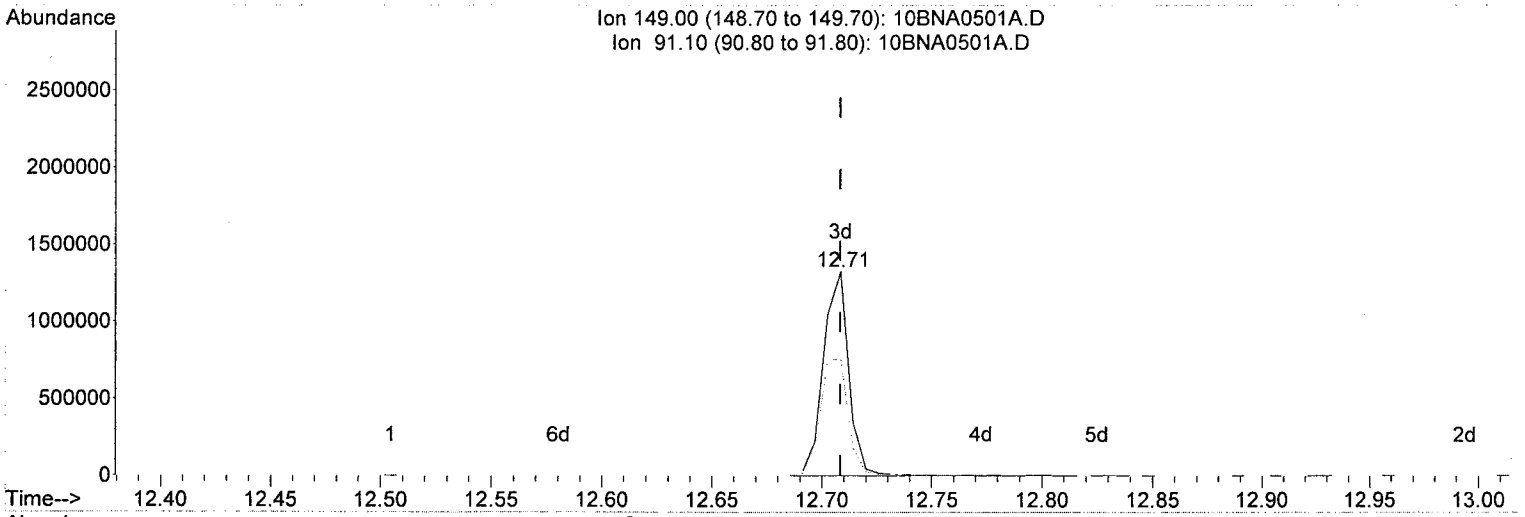
1 5/1-

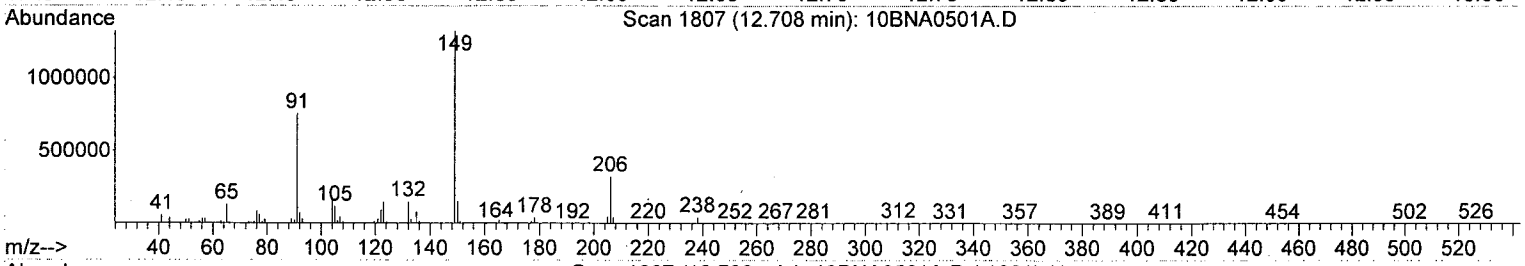
JW 5/10/12

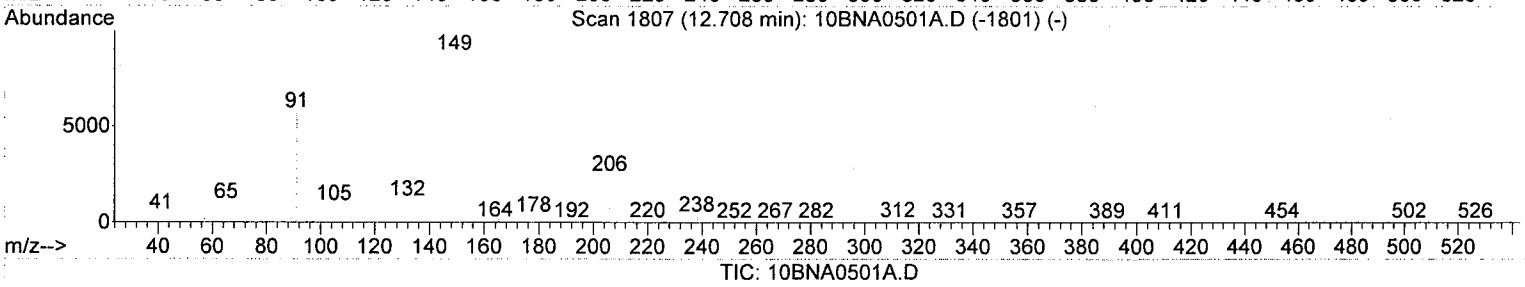
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 10BNA0501A.D
Acq On : 1 May 2012 13:28
Operator : DMC
Sample : 10BNA0501A
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 01 14:42:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:42:18 2012
Response via : Initial Calibration







TIC: 10BNA0501A.D

(82) Butyl Benzyl Phthalate

12.71min (0.000) 13.60ug/l m

response 1058120

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	0.12#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation:

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

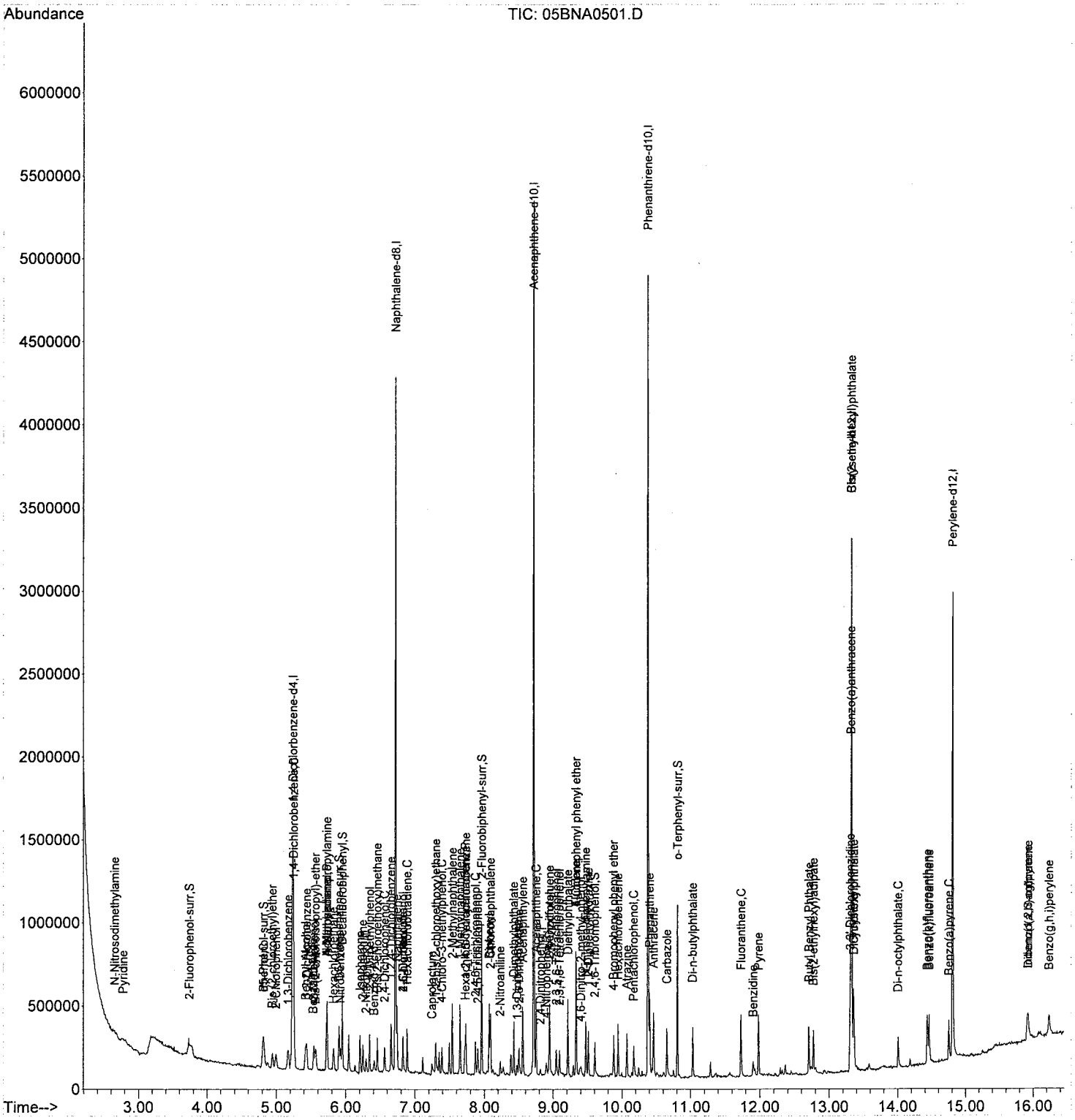
Analyst: _____ Date: 5/...

Reviewed By: dwb Date: 5/10/12

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:46:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:46:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.23	152	419432	5.00	ug/l	0.00 115.79%
21) Naphthalene-d8	6.72	136	1848920	5.00	ug/l	0.00 117.67%
42) Acenaphthene-d10	8.72	164	1062569	5.00	ug/l	0.00 118.03%
65) Phenanthrene-d10	10.38	188	1727538m	5.00	ug/l	0.00 118.99%
79) Chrysene-d12	13.33	240	989366	5.00	ug/l	0.00 111.31%
90) Perylene-d12	14.81	264	1069223	5.00	ug/l	0.00 101.65%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.75	112	92555	1.02	ug/l	-0.01
5) d5-Phenol-surr	4.81	99	122805	1.04	ug/l	0.00
19) Decafluorobiphenyl	5.95	334	103667	1.24	ug/l	0.00
22) D5-Nitrobenzene-surr	5.90	128	50351	1.01	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.96	172	266162	1.26	ug/l	0.00
64) 2,4,6-Tribromophenol	9.61	330	23740	1.02	ug/l	0.00
76) o-Terphenyl-surr	10.81	230	186923	1.23	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.65	74	27239	0.48	ug/l #	80
3) Pyridine	2.78	79	51082	0.49	ug/l #	73
6) Phenol	4.83	94	60251	0.52	ug/l #	57
7) Bis (2-chloroethyl)ether	4.94	93	53688	0.50	ug/l #	76
8) 2-Chlorophenol	4.99	128	50210	0.50	ug/l	91
9) 1,3-Dichlorobenzene	5.17	146	62252	0.51	ug/l #	92
10) 1,4-Dichlorobenzene	5.26	146	62315	0.53	ug/l #	56
11) Benzaldehyde	5.52	105	1764	0.58	ug/l #	1
12) Benzyl Alcohol	5.42	108	26899	0.44	ug/l	91
13) 1,2-Dichlorobenzene	5.44	146	59930	0.53	ug/l #	90
14) 2-Methylphenol	5.54	108	42044	0.47	ug/l	88
15) Bis-(2-chloroisopropyl)-et	5.57	45	71923	0.56	ug/l	94
16) Acetophenone	5.72	105	66026	0.51	ug/l	84
17) 4-Methylphenol	5.72	107	45233	0.48	ug/l	92
18) N-Nitrosodi-n-propylamine	5.73	70	33009	0.55	ug/l #	85
20) Hexachloroethane	5.82	117	23341	0.57	ug/l	98
23) Nitrobenzene	5.92	77	49208	0.50	ug/l #	90
24) Isophorone	6.21	82	90922	0.51	ug/l #	91
25) 2-Chloroaniline	6.25	127	61564	0.53	ug/l #	100
26) 2-Nitrophenol	6.29	139	24910	0.41	ug/l #	82
27) 2,4-Dimethylphenol	6.35	107	46833	0.51	ug/l	94
28) Benzoic Acid	6.42	105	32542	0.62	ug/l	92
29) Bis(2-chloroethoxy)methane	6.46	93	57408	0.49	ug/l	99
30) 2,4-Dichlorophenol	6.56	162	35579	0.44	ug/l	97
31) 1,2,4-Trichlorobenzene	6.65	180	57159	0.55	ug/l	97
32) Naphthalene	6.74	128	164577	0.54	ug/l	95
33) 4-Chloroaniline	6.83	127	19751	0.57	ug/l #	24
34) 2,6-Dichlorophenol	6.83	162	39107	0.49	ug/l	97

00846

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:46:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.89	225	25399	0.51	ug/l		90
36) Caprolactum	7.24	55	16245	0.52	ug/l		93
37) 1,2-bis(2-chloroethoxy)eth	7.30	63	43114	0.48	ug/l		94
38) 4-Chloro-3-methylphenol	7.39	107	33133	0.44	ug/l		88
39) 2-Methylnaphthalene	7.54	142	109875	0.52	ug/l		97
40) 1-Methylnaphthalene	7.65	142	106205	0.52	ug/l		98
41) 1,3-Dinitrobenzene	8.48	168	11512	0.35	ug/l		100
43) Hexachlorocyclopentadiene	7.72	237	20137	0.42	ug/l		97
44) 1,2,4,5-Tetrachlorobenzene	7.73	216	48615	0.55	ug/l		97
45) 2,4,6-Trichlorophenol	7.87	196	26212	0.50	ug/l		92
46) 2,4,5-Trichlorophenol	7.91	198	24530	0.44	ug/l		89
48) 2-Chloronaphthalene	8.09	162	101000	0.54	ug/l		96
49) Biphenyl	8.07	154	130039	0.55	ug/l		100
50) 2-Nitroaniline	8.23	138	24101	0.45	ug/l		85
51) Dimethylphthalate	8.43	163	122905	0.60	ug/l	#	90
52) 2,6-Dinitrotoluene	8.51	165	21327	0.46	ug/l	#	84
53) Acenaphthylene	8.56	152	157730	0.53	ug/l		99
54) Acenaphthene	8.76	154	96086	0.53	ug/l		96
55) 4-Nitrophenol	8.90	65	24190m	0.99	ug/l	#	92
56) 2,4-Dinitrotoluene	8.95	165	21294	0.40	ug/l		92
57) 2,4-Dinitrophenol	8.81	184	7583m	0.45	ug/l	#	97
58) Dibenzofuran	8.95	168	150302	0.57	ug/l		92
59) 2,3,5,6-Tetrachlorophenol	9.05	232	20314	0.45	ug/l		96
60) 2,3,4,6-Tetrachlorophenol	9.09	232	18584	0.40	ug/l		95
61) Diethylphthalate	9.22	149	154498	0.74	ug/l		98
62) 4-Chlorophenyl phenyl ethe	9.34	204	62536	0.61	ug/l	#	92
63) Fluorene	9.33	166	118201	0.56	ug/l		98
66) 4,6-Dinitro-2-methyl-pheno	9.40	198	5684	0.24	ug/l	#	87
67) 1,2-Diphenylhydrazine	9.51	77	93155	0.54	ug/l	#	84
68) N-nitroso-diphenylamine	9.47	169	91641	0.53	ug/l	#	97
69) 4-Bromophenyl phenyl ether	9.88	248	28112	0.51	ug/l		97
70) Hexachlorobenzene	9.94	284	34578	0.58	ug/l		89
71) Atrazine	10.07	200	23120	0.51	ug/l		99
72) Pentachlorophenol	10.17	266	15292	0.50	ug/l	#	95
73) Phenanthrene	10.40	178	158997	0.58	ug/l		99
74) Anthracene	10.46	178	141334	0.52	ug/l		100
75) Carbazole	10.65	167	129075	0.63	ug/l	#	92
77) Di-n-butylphthalate	11.03	149	141008	0.55	ug/l		99
78) Fluoranthene	11.73	202	142836	0.52	ug/l		97
80) Benzidine	11.91	184	58114	1.24	ug/l	#	92
81) Pyrene	11.98	202	150848	0.56	ug/l		99
82) Butyl Benzyl Phthalate	12.70	149	51880	0.57	ug/l	#	79
83) Bis(2-ethylhexyl)adipate	12.77	129	39999	0.50	ug/l		90
84) Bis(2-ethylhexyl)phthalate	13.33	149	63070	0.55	ug/l		98
85) Dicyclohexylphthalate	13.37	149	95081	0.56	ug/l	#	85
86) 3,3' Dichlorobenzidine	13.30	252	70976	1.30	ug/l		96
87) Benzo(a)anthracene	13.31	228	139940	0.68	ug/l	#	96
88) Chrysene	13.36	228	144050	0.64	ug/l	#	92
89) Di-n-octylphthalate	14.01	149	94384	0.54	ug/l	#	100
91) Benzo(b)fluoroanthene	14.43	252	120167	0.67	ug/l		99
92) Benzo(k)fluoroanthene	14.46	252	119460	0.54	ug/l		96
93) Benzo(a)pyrene	14.75	252	103066	0.57	ug/l		98

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:46:42 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration

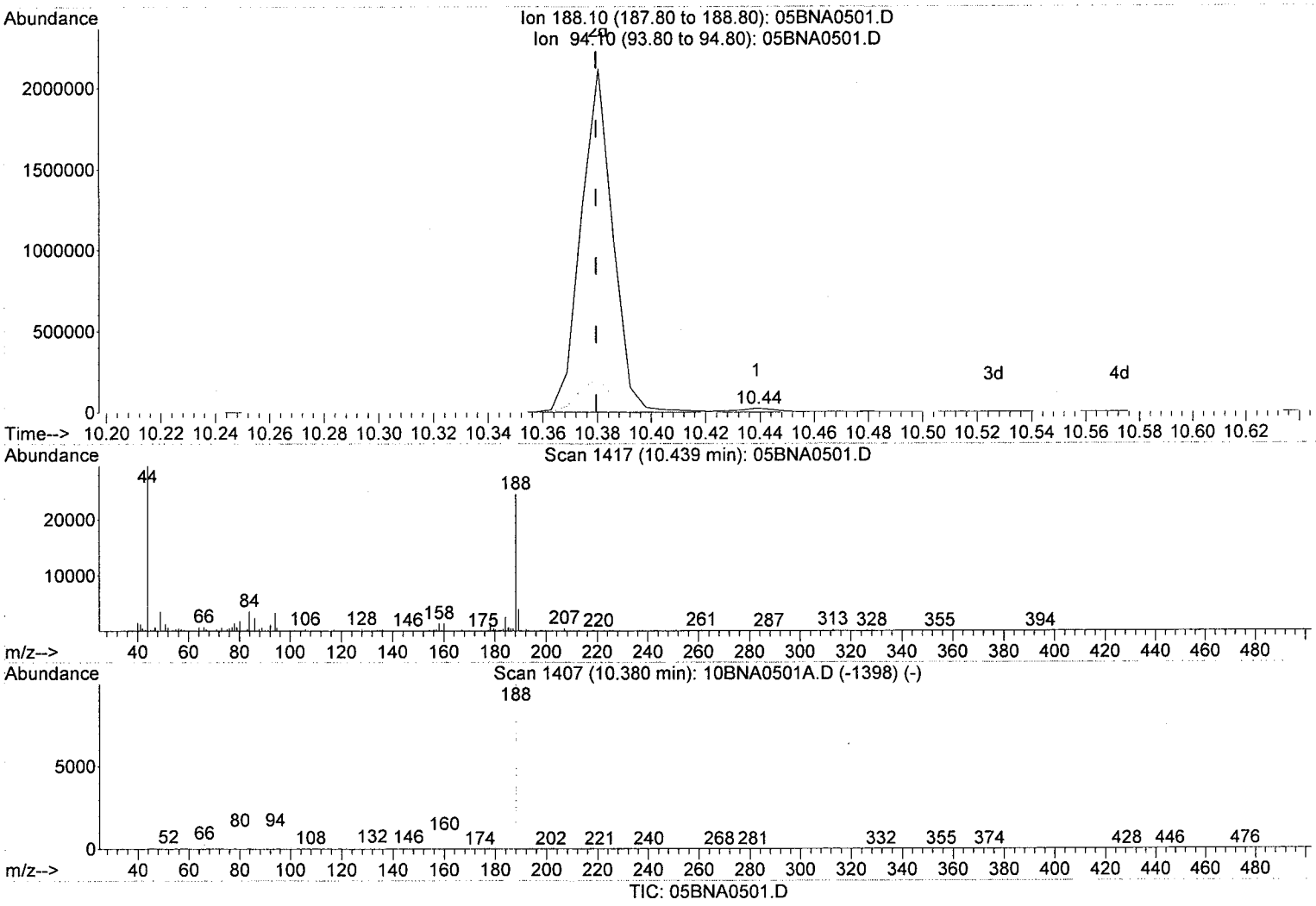
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.92	276	89554	0.48	ug/l		93
95) Dibenzo(a,h)anthracene	15.93	278	68757	0.45	ug/l	#	90
96) Benzo(g,h,i)perylene	16.24	276	93260	0.53	ug/l		96

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

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:44:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration



(65) Phenanthrene-d10 (I)

10.44min (+0.059) 5.00ug/l

response 29677

Ion	Exp%	Act%
188.10	100	100
94.10	13.20	11.96
0.00	0.00	0.00
0.00	0.00	0.00

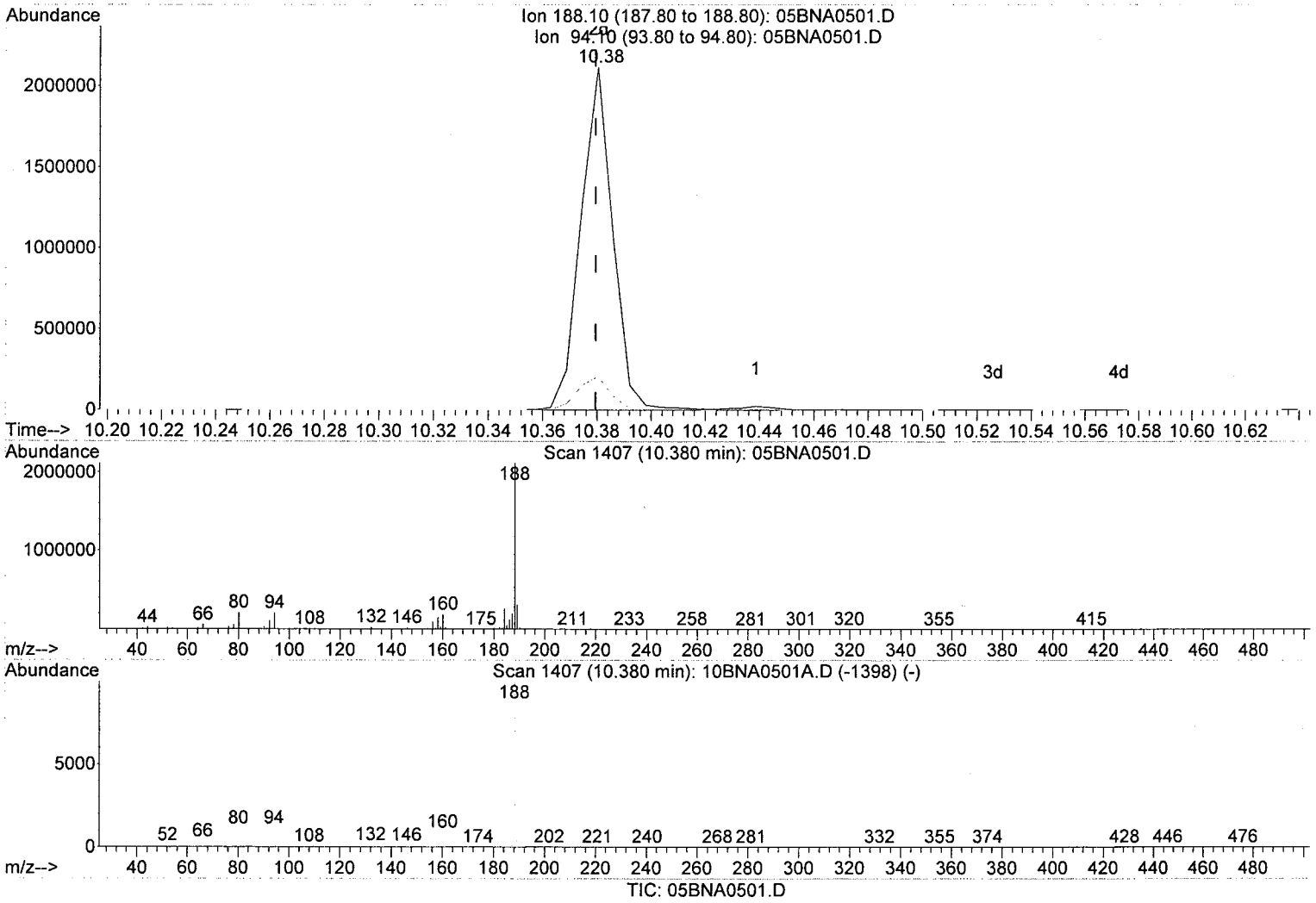
5/10/12

00849

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:44:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration



TIC: 05BNA0501.D

(65) Phenanthrene-d10 (I)

10.38min (+0.001) 5.00ug/l m

response 1727538

Ion	Exp%	Act%
188.10	100	100
94.10	13.20	0.21#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

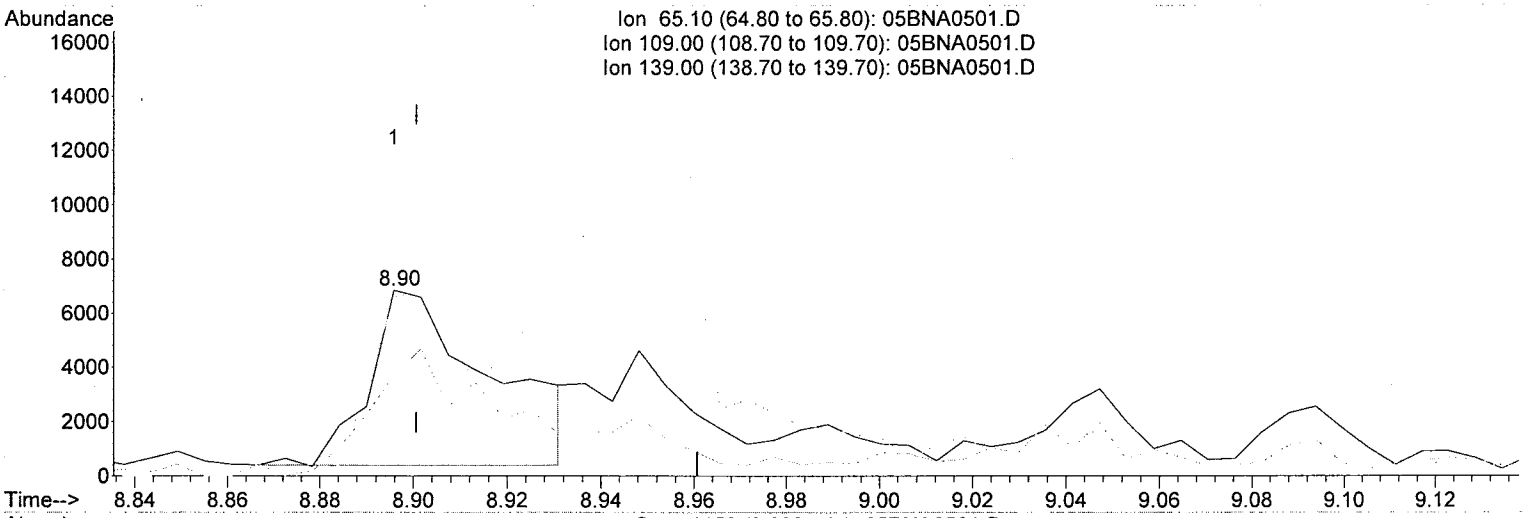
Analyst: C Date: 5/1/12

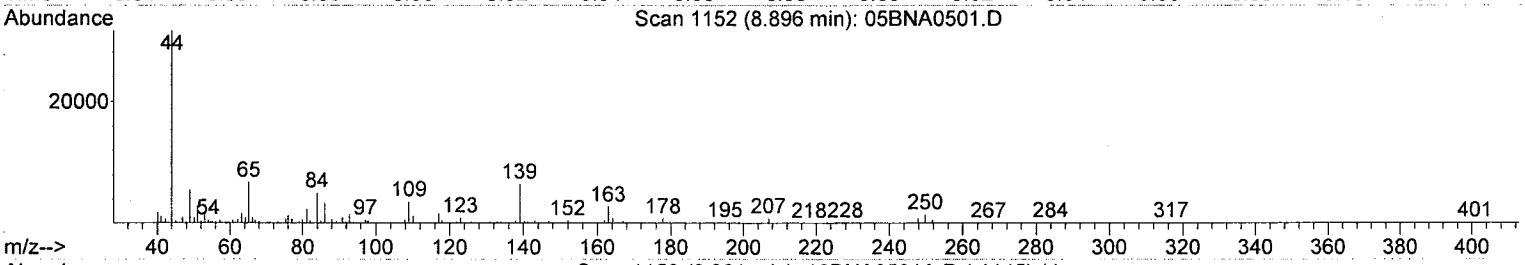
Reviewed By: JWB Date: 5/10/12

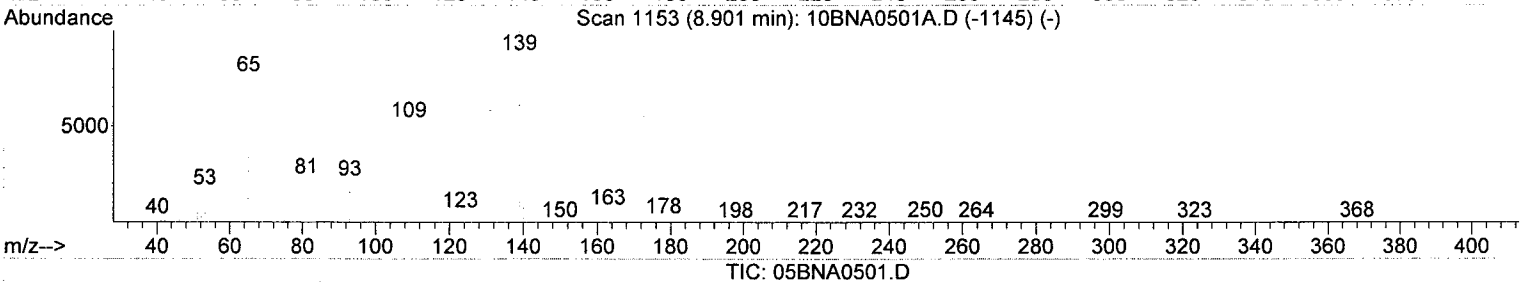
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:44:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration







TIC: 05BNA0501.D

(55) 4-Nitrophenol (P)

8.90min (-0.005) 0.47ug/l

response 11566

Ion	Exp%	Act%
65.10	100	100
109.00	63.00	74.09
139.00	98.10	94.30
0.00	0.00	0.00

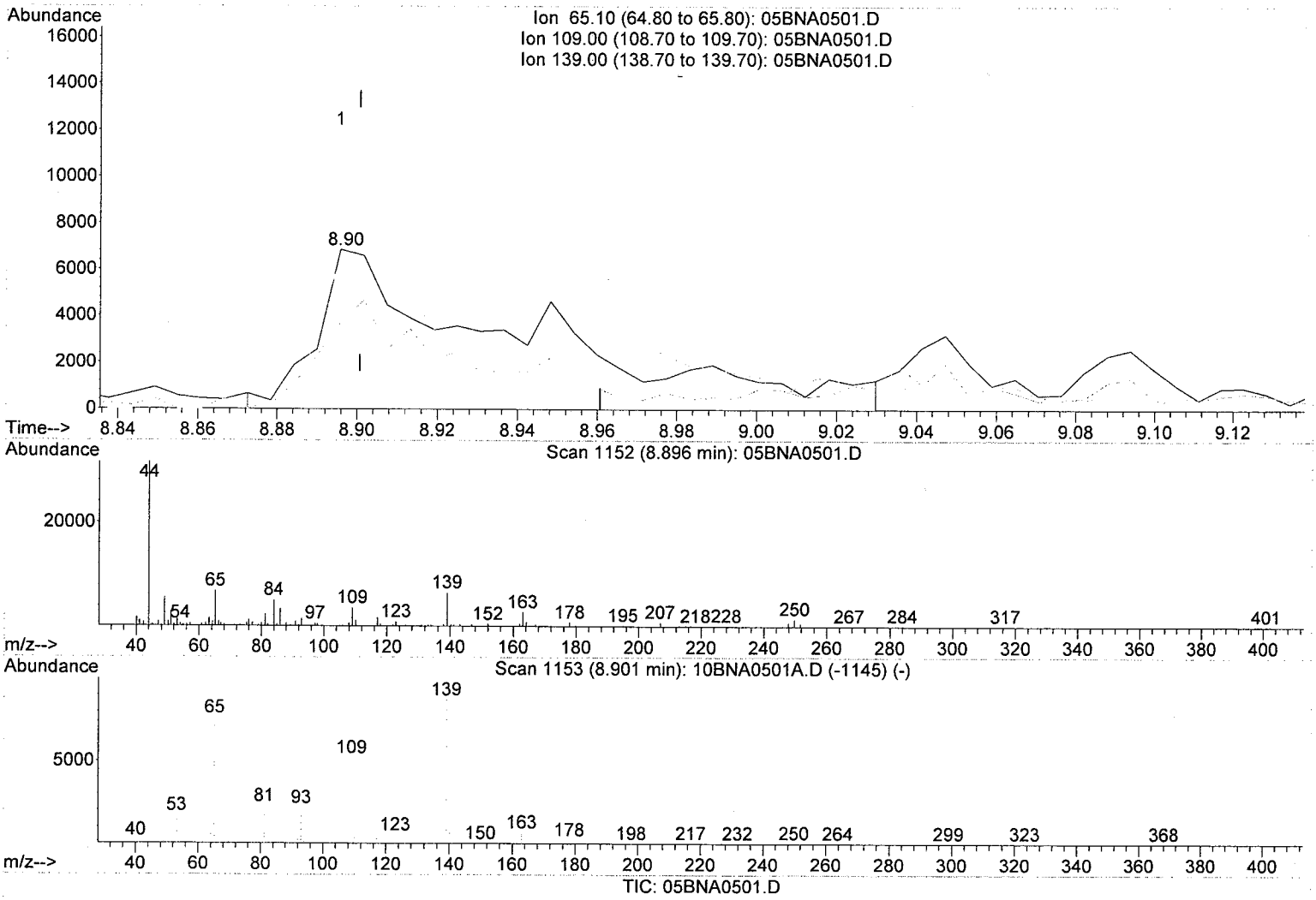
JWS 5/10/12

00851

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:44:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration



TIC: 05BNA0501.D

(55) 4-Nitrophenol (P)

8.90min (-0.005) 0.99ug/l m

response 24190

Ion	Exp%	Act%
65.10	100	100
109.00	63.00	35.42#
139.00	98.10	45.09#
0.00	0.00	0.00

Manual Integration Explanation

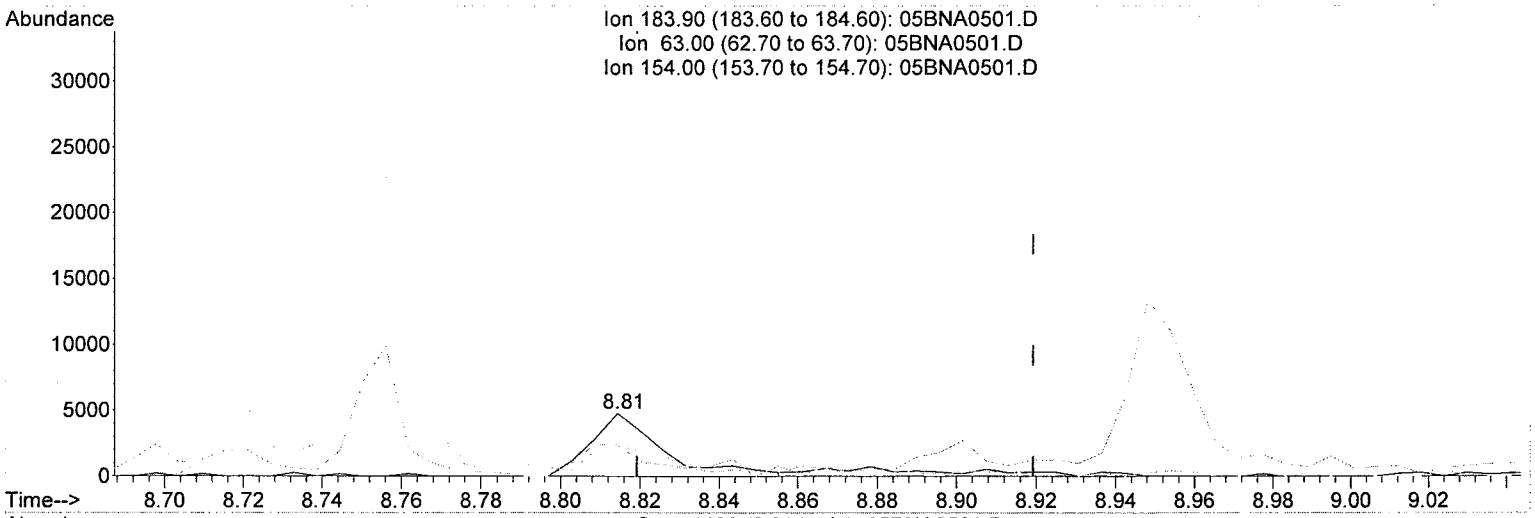
Reason 3: Incorrect baseline drawn by the software.

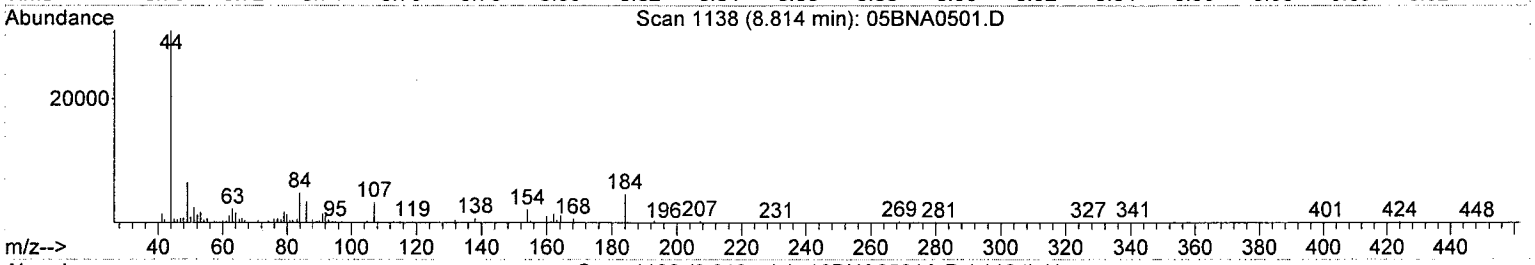
Flagged on Quantitation Report: Yes / No
Analyst: C Date: 5/31-
Reviewed By: JWB Date: 5/10/12

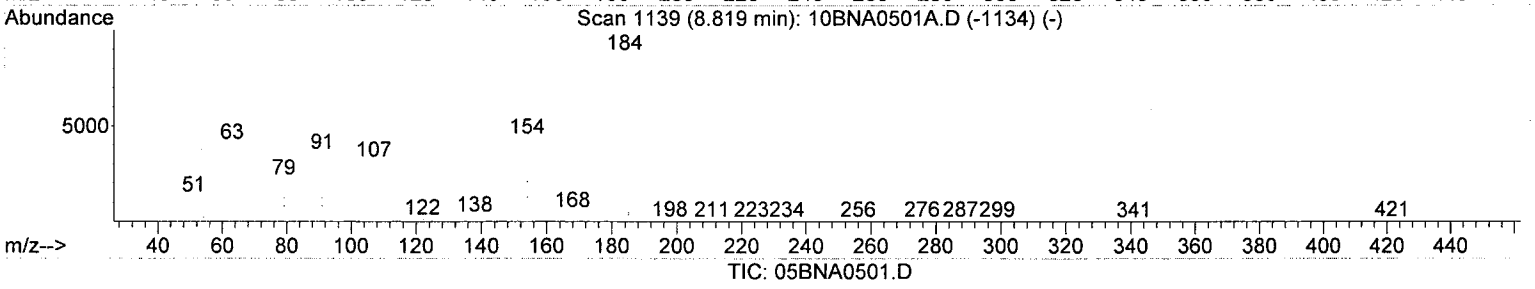
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:44:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration







TIC: 05BNA0501.D

(57) 2,4-Dinitrophenol (P)

8.81min (-0.005) 0.35ug/l

response 5902

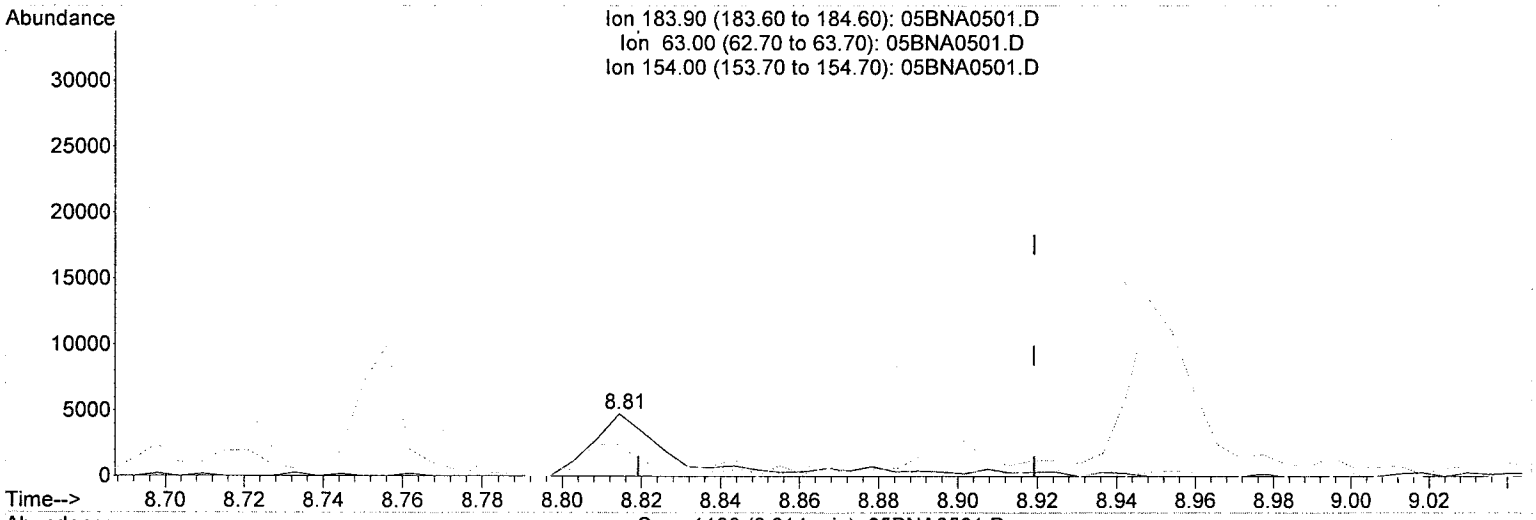
Ion	Exp%	Act%
183.90	100	100
63.00	67.70	66.84
154.00	48.30	44.36
0.00	0.00	0.00

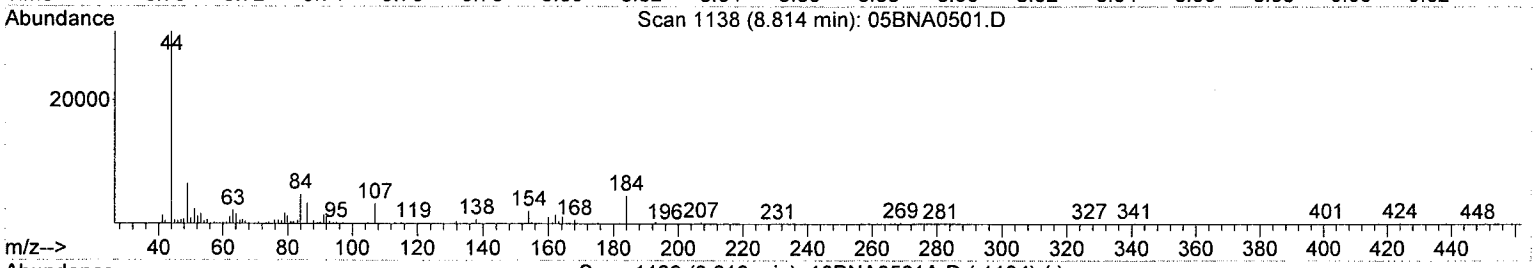
JMB 5/10/12

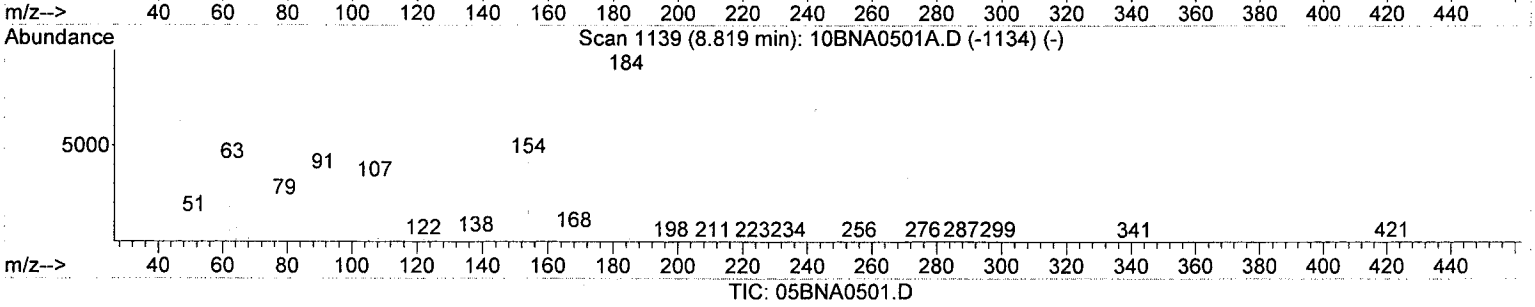
00853

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 05BNA0501.D
Acq On : 1 May 2012 11:44
Operator : DMC
Sample : 05BNA0501
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 01 14:44:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:44:46 2012
Response via : Initial Calibration







TIC: 05BNA0501.D

(57) 2,4-Dinitrophenol (P)

8.81min (-0.005) 0.45ug/l m

response 7583

Ion	Exp%	Act%
183.90	100	100
63.00	67.70	52.02#
154.00	48.30	34.52#
0.00	0.00	0.00

Manual Integration Explanation

Reason 3: Incorrect baseline drawn by the software.

Flagged on Quantitation Report: Yes / No

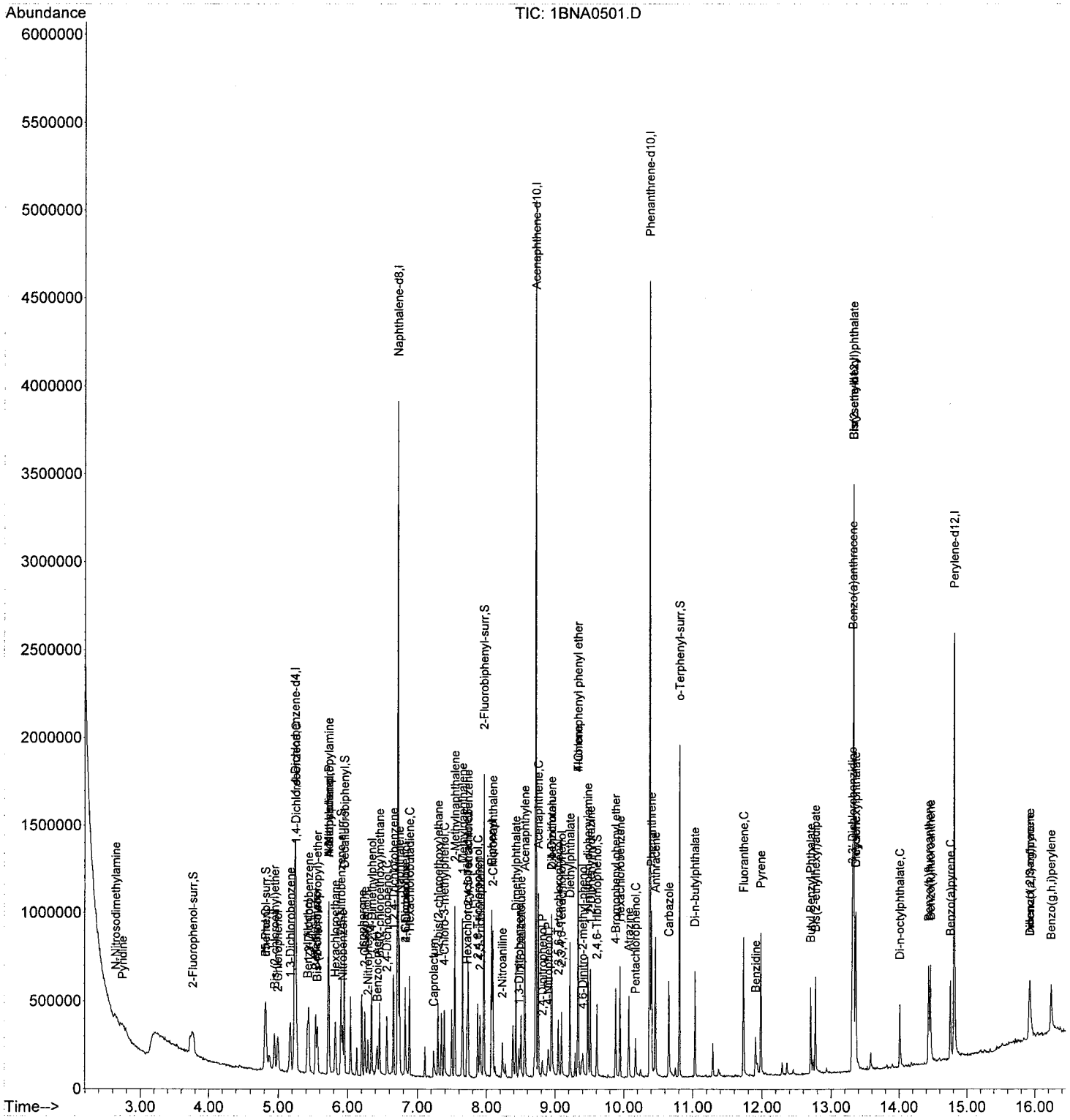
Analyst: [signature] Date: 5/1-

Reviewed By: JWB Date: 5/10/12

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:48:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:48:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.24	152	392907m	5.00	ug/l	0.00 108.47%
21) Naphthalene-d8	6.72	136	1719875	5.00	ug/l	0.00 109.46%
42) Acenaphthene-d10	8.72	164	1027761	5.00	ug/l	0.00 114.16%
65) Phenanthrene-d10	10.38	188	1608197	5.00	ug/l	0.00 110.77%
79) Chrysene-d12	13.33	240	943136	5.00	ug/l	0.00 106.11%
90) Perylene-d12	14.81	264	1002711	5.00	ug/l	0.00 95.33%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.77	112	179578	2.07	ug/l	0.00
5) d5-Phenol-surr	4.81	99	236084	2.10	ug/l	0.00
19) Decafluorobiphenyl	5.95	334	197931	2.49	ug/l	0.00
22) D5-Nitrobenzene-surr	5.90	128	98737	2.11	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.96	172	488076	2.37	ug/l	0.00
64) 2,4,6-Tribromophenol	9.61	330	42692	1.86	ug/l	0.00
76) o-Terphenyl-surr	10.81	230	336907	2.36	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.64	74	62215	1.16	ug/l #	77
3) Pyridine	2.75	79	112051	1.14	ug/l #	63
6) Phenol	4.83	94	134656	1.22	ug/l #	54
7) Bis (2-chloroethyl)ether	4.95	93	120063m	1.18	ug/l #	99
8) 2-Chlorophenol	4.99	128	118384	1.24	ug/l #	86
9) 1,3-Dichlorobenzene	5.17	146	145574	1.28	ug/l #	88
10) 1,4-Dichlorobenzene	5.26	146	134917	1.21	ug/l #	85
11) Benzaldehyde	5.54	105	1888	0.68	ug/l #	1
12) Benzyl Alcohol	5.42	108	61241	1.09	ug/l	94
13) 1,2-Dichlorobenzene	5.44	146	133225	1.26	ug/l #	89
14) 2-Methylphenol	5.54	108	102086	1.21	ug/l #	91
15) Bis-(2-chloroisopropyl)-et	5.57	45	154151	1.27	ug/l #	95
16) Acetophenone	5.72	105	151992	1.25	ug/l	82
17) 4-Methylphenol	5.73	107	108153	1.21	ug/l	96
18) N-Nitrosodi-n-propylamine	5.73	70	75138	1.32	ug/l #	85
20) Hexachloroethane	5.82	117	48151	1.24	ug/l #	92
23) Nitrobenzene	5.93	77	107840	1.17	ug/l	91
24) Isophorone	6.21	82	209240	1.26	ug/l #	92
25) 2-Chloroaniline	6.25	127	134338	1.22	ug/l #	100
26) 2-Nitrophenol	6.29	139	52025	0.92	ug/l #	82
27) 2,4-Dimethylphenol	6.35	107	106158	1.22	ug/l	98
28) Benzoic Acid	6.43	105	78853	1.61	ug/l	92
29) Bis(2-chloroethoxy)methane	6.46	93	127355	1.18	ug/l	97
30) 2,4-Dichlorophenol	6.56	162	83204	1.11	ug/l	93
31) 1,2,4-Trichlorobenzene	6.66	180	119400	1.23	ug/l	99
32) Naphthalene	6.74	128	358142	1.26	ug/l	99
33) 4-Chloroaniline	6.83	127	56251	1.76	ug/l #	40
34) 2,6-Dichlorophenol	6.83	162	83227	1.12	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:48:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.89	225	56655	1.23	ug/l		93
36) Caprolactum	7.24	55	33285	1.12	ug/l		95
37) 1,2-bis(2-chloroethoxy)eth	7.30	63	100558	1.23	ug/l		96
38) 4-Chloro-3-methylphenol	7.39	107	80808	1.14	ug/l	#	89
39) 2-Methylnaphthalene	7.54	142	244733	1.23	ug/l		98
40) 1-Methylnaphthalene	7.65	142	238410	1.26	ug/l		91
41) 1,3-Dinitrobenzene	8.48	168	29352	0.95	ug/l		100
43) Hexachlorocyclopentadiene	7.72	237	42121	0.91	ug/l		98
44) 1,2,4,5-Tetrachlorobenzene	7.73	216	107246	1.25	ug/l		99
45) 2,4,6-Trichlorophenol	7.87	196	52916	1.02	ug/l		94
46) 2,4,5-Trichlorophenol	7.91	198	57354	1.06	ug/l	#	91
48) 2-Chloronaphthalene	8.09	162	231219	1.28	ug/l		95
49) Biphenyl	8.07	154	285113	1.24	ug/l		94
50) 2-Nitroaniline	8.23	138	50249	0.95	ug/l		87
51) Dimethylphthalate	8.43	163	238713	1.18	ug/l	#	92
52) 2,6-Dinitrotoluene	8.51	165	44362	0.98	ug/l	#	86
53) Acenaphthylene	8.56	152	345996	1.21	ug/l		99
54) Acenaphthene	8.76	154	211624	1.21	ug/l		98
55) 4-Nitrophenol	8.90	65	48733m	2.02	ug/l	#	80
56) 2,4-Dinitrotoluene	8.95	165	53981	1.04	ug/l		87
57) 2,4-Dinitrophenol	8.81	184	20380	1.21	ug/l	#	87
58) Dibenzofuran	8.95	168	312010	1.22	ug/l		93
59) 2,3,5,6-Tetrachlorophenol	9.05	232	42439	0.96	ug/l		99
60) 2,3,4,6-Tetrachlorophenol	9.09	232	47408	1.07	ug/l		98
61) Diethylphthalate	9.22	149	231828	1.18	ug/l		96
62) 4-Chlorophenyl phenyl ethe	9.34	204	122735	1.22	ug/l	#	90
63) Fluorene	9.33	166	252124	1.23	ug/l	#	98
66) 4,6-Dinitro-2-methyl-pheno	9.40	198	17568	0.79	ug/l	#	83
67) 1,2-Diphenylhydrazine	9.51	77	199762	1.23	ug/l	#	88
68) N-nitroso-diphenylamine	9.47	169	200265	1.24	ug/l		98
69) 4-Bromophenyl phenyl ether	9.88	248	61787	1.20	ug/l		96
70) Hexachlorobenzene	9.94	284	71468	1.28	ug/l		95
71) Atrazine	10.08	200	48513	1.14	ug/l		96
72) Pentachlorophenol	10.17	266	26629	0.93	ug/l		89
73) Phenanthrene	10.40	178	321263	1.24	ug/l		99
74) Anthracene	10.46	178	308355	1.21	ug/l		98
75) Carbazole	10.65	167	260122	1.33	ug/l	#	94
77) Di-n-butylphthalate	11.03	149	286024	1.18	ug/l		98
78) Fluoranthene	11.73	202	301968	1.18	ug/l		96
80) Benzidine	11.91	184	134694	2.90	ug/l	#	89
81) Pyrene	11.98	202	312940	1.20	ug/l		100
82) Butyl Benzyl Phthalate	12.70	149	100382	1.11	ug/l	#	82
83) Bis(2-ethylhexyl)adipate	12.77	129	90152	1.15	ug/l	#	86
84) Bis(2-ethylhexyl)phthalate	13.33	149	134698	1.17	ug/l		98
85) Dicyclohexylphthalate	13.37	149	198868	1.20	ug/l	#	86
86) 3,3' Dichlorobenzidine	13.30	252	136498	2.47	ug/l		98
87) Benzo(a)anthracene	13.31	228	248291	1.21	ug/l		97
88) Chrysene	13.36	228	263782	1.20	ug/l	#	90
89) Di-n-octylphthalate	14.01	149	191491	1.07	ug/l	#	100
91) Benzo(b)fluoroanthene	14.43	252	219796	1.24	ug/l		97
92) Benzo(k)fluoroanthene	14.46	252	240120	1.16	ug/l		97
93) Benzo(a)pyrene	14.75	252	200699	1.14	ug/l		95

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:48:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration

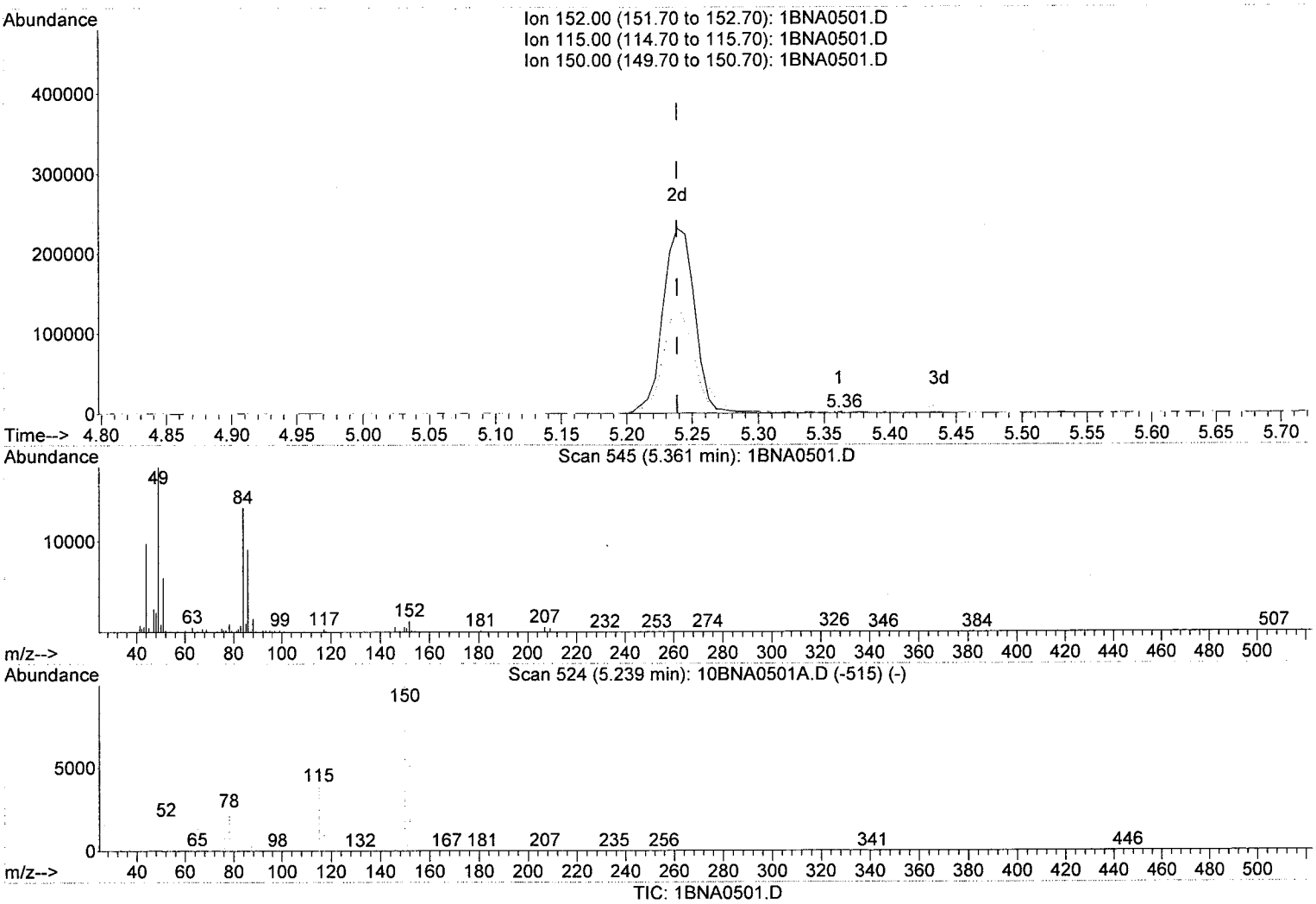
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.92	276	193371	1.09	ug/l	97
95) Dibenzo(a,h)anthracene	15.93	278	157747	1.10	ug/l	96
96) Benzo(g,h,i)perylene	16.24	276	187399	1.12	ug/l	100

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

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:47:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration



(1) 1,4-Dichlorbenzene-d4 (I)

5.36min (+0.123) 5.00ug/l

response 2195

Ion	Exp%	Act%
152.00	100	100
115.00	61.00	54.58
150.00	225.00	228.25
0.00	0.00	0.00

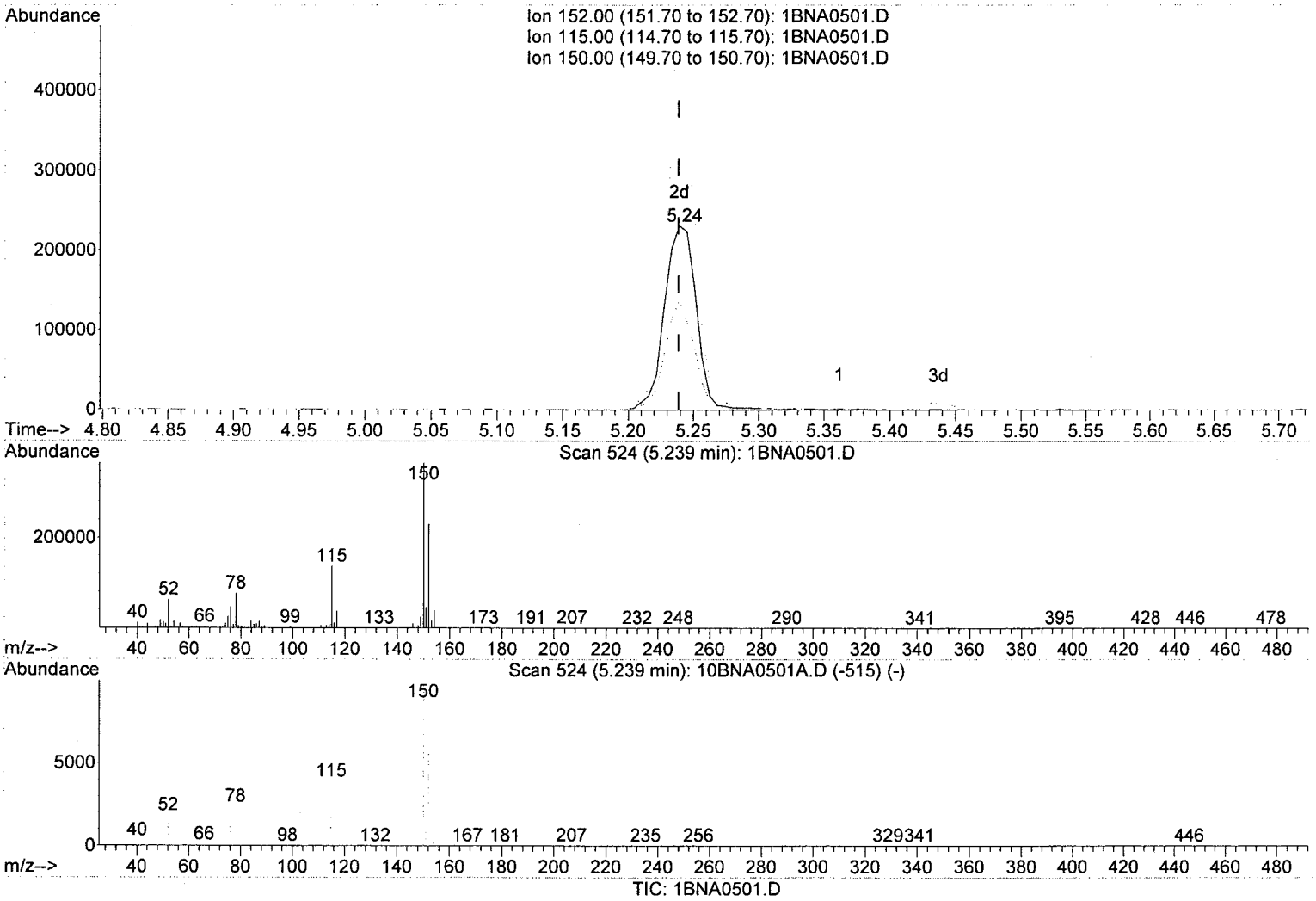
JWB 5/10/12

00859

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:47:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration



(1) 1,4-Dichlorbenzene-d4 (I)

5.24min (+0.000) 5.00ug/l m

response 392907

Ion	Exp%	Act%
152.00	100	100
115.00	61.00	0.30#
150.00	225.00	1.28#
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

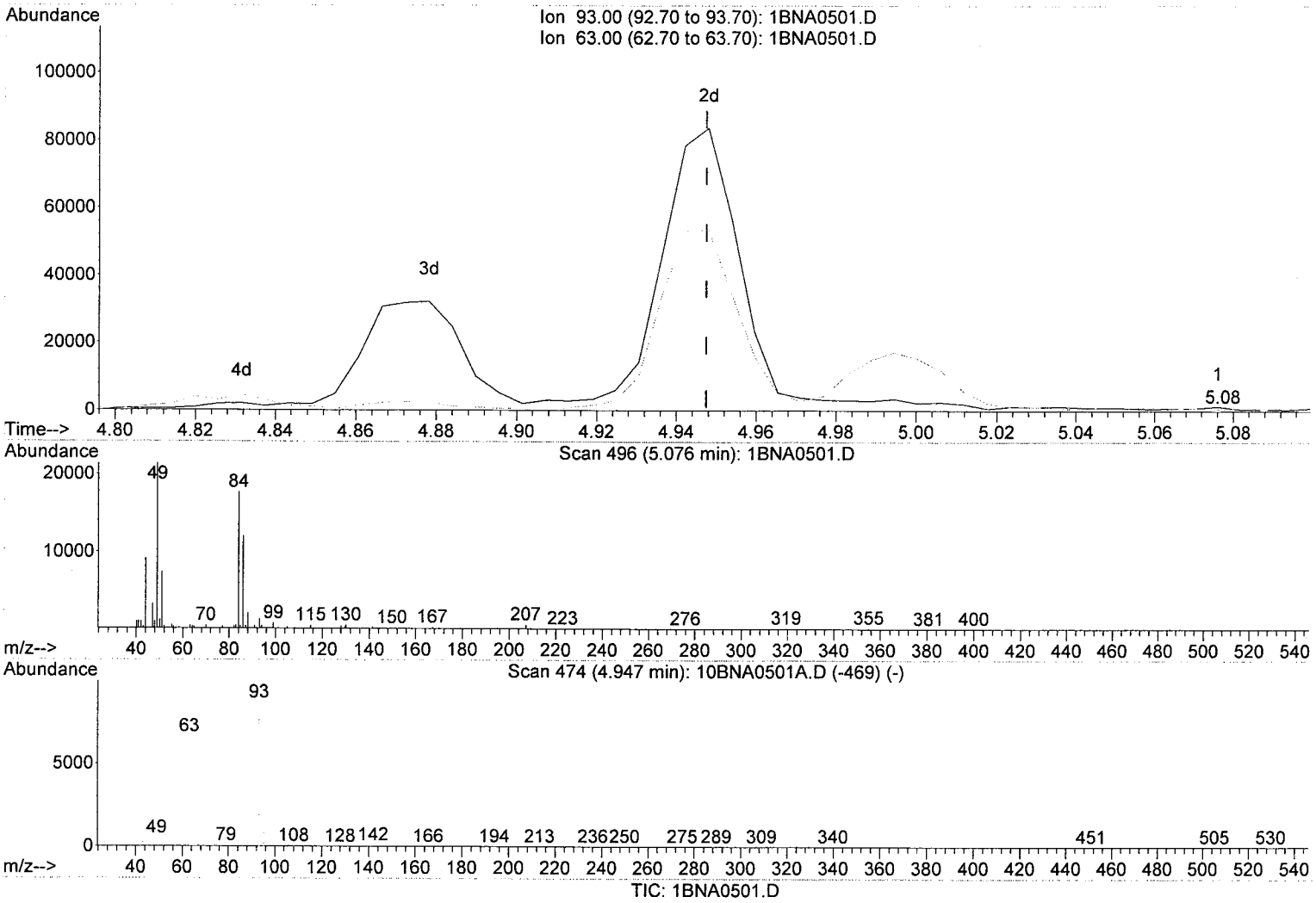
Flagged on Quantitation Report: Yes / No

Analyst: _____ Date: 5/6

Reviewed By: JWB Date: 5/10/12

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:47:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration



TIC: 1BNA0501.D

(7) Bis (2-chloroethyl)ether

5.08min (+0.129) 0.02ug/l

response 1610

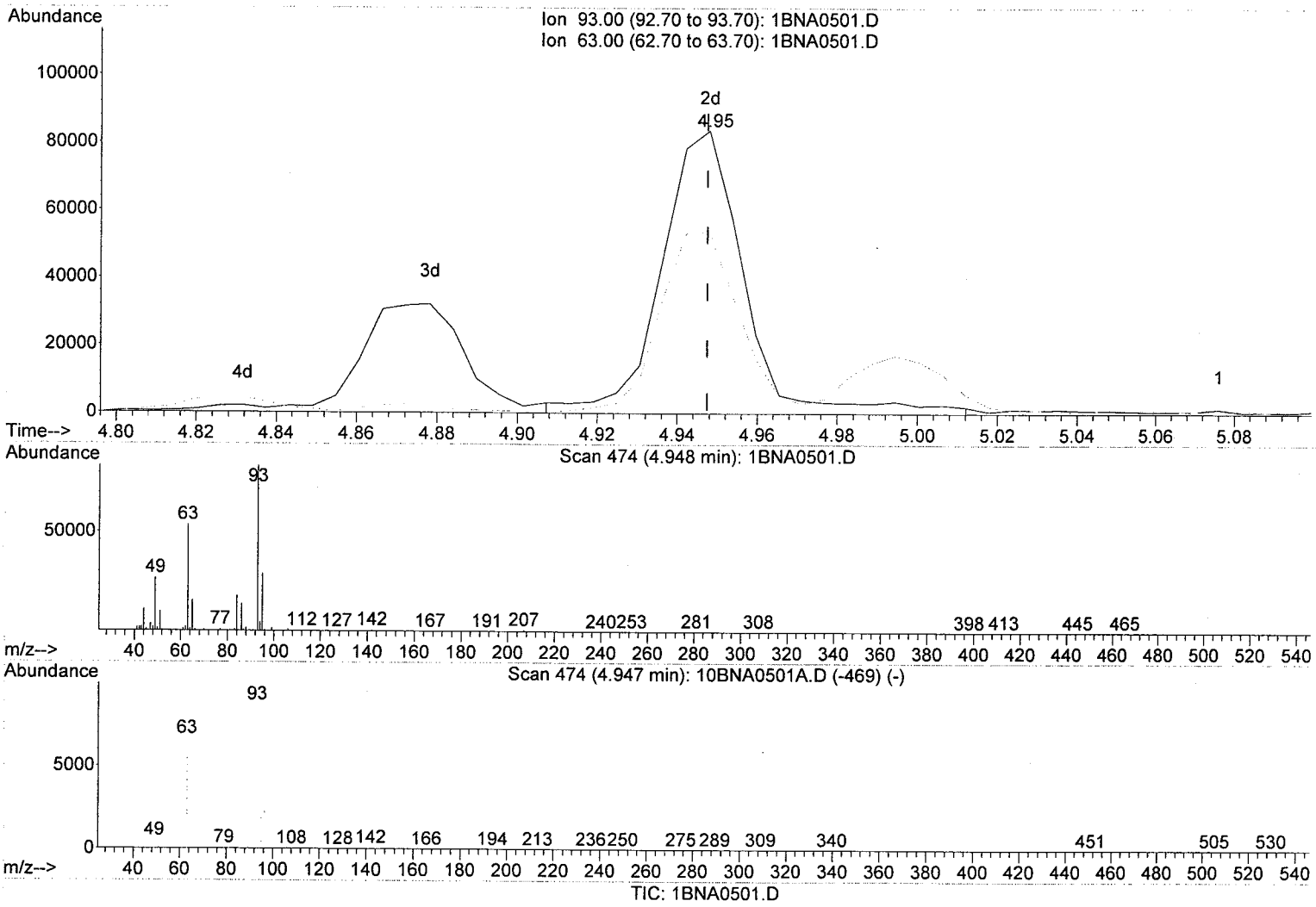
Ion	Exp%	Act%
93.00	100	100
63.00	85.50	86.65
0.00	0.00	0.00
0.00	0.00	0.00

5/12
Jus Sholz

00861

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:47:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration



(7) Bis (2-chloroethyl)ether

4.95min (+0.000) 1.18ug/l m

response 120063

Ion	Exp%	Act%
93.00	100	100
63.00	85.50	1.16#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

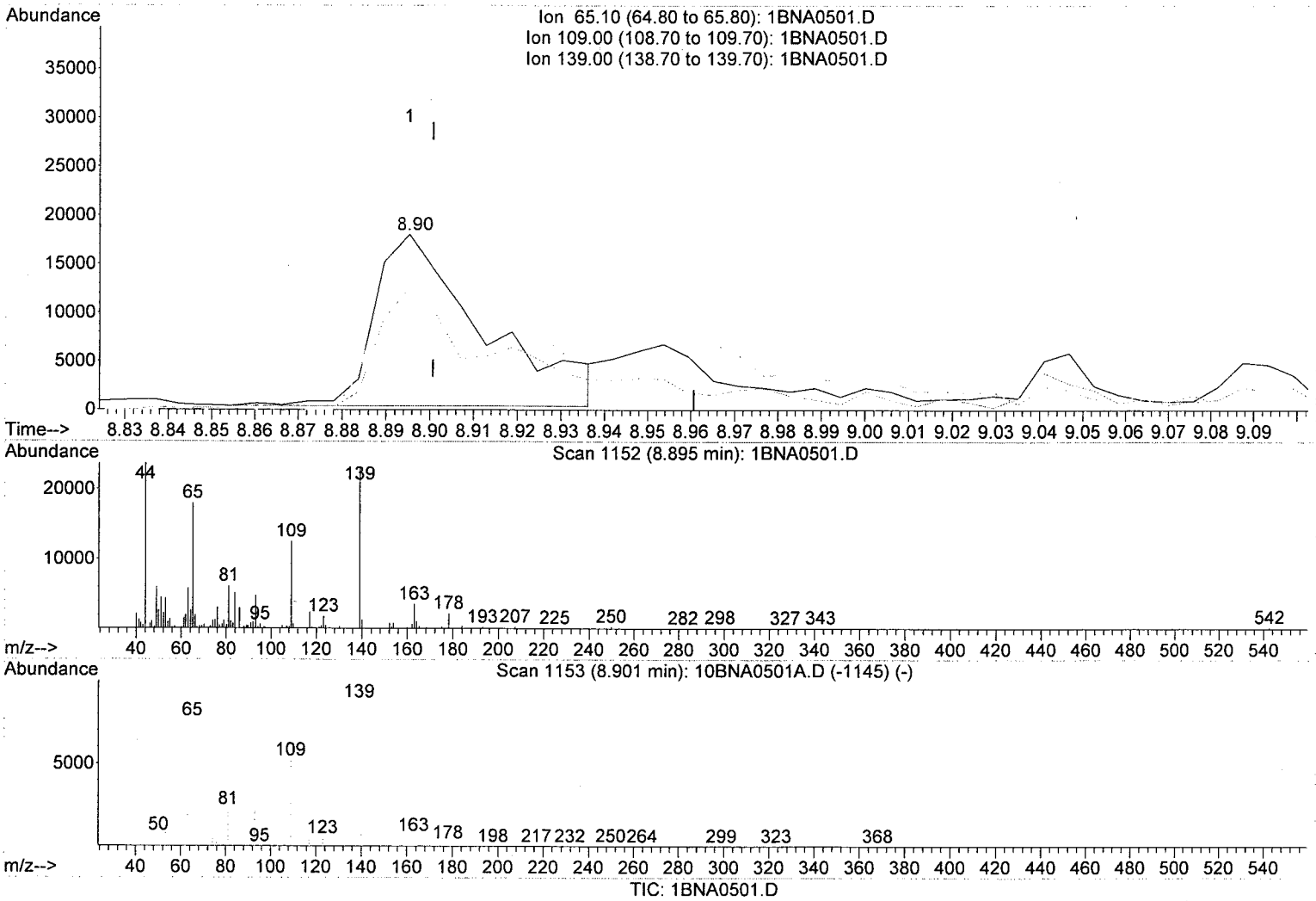
Analyst: _____ Date: _____

Reviewed By: _____ Date: 5/10/12

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:47:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration



TIC: 1BNA0501.D

(55) 4-Nitrophenol (P)

8.90min (-0.005) 1.26ug/l

response 30462

Ion	Exp%	Act%
65.10	100	100
109.00	63.00	73.31
139.00	98.10	121.89#
0.00	0.00	0.00

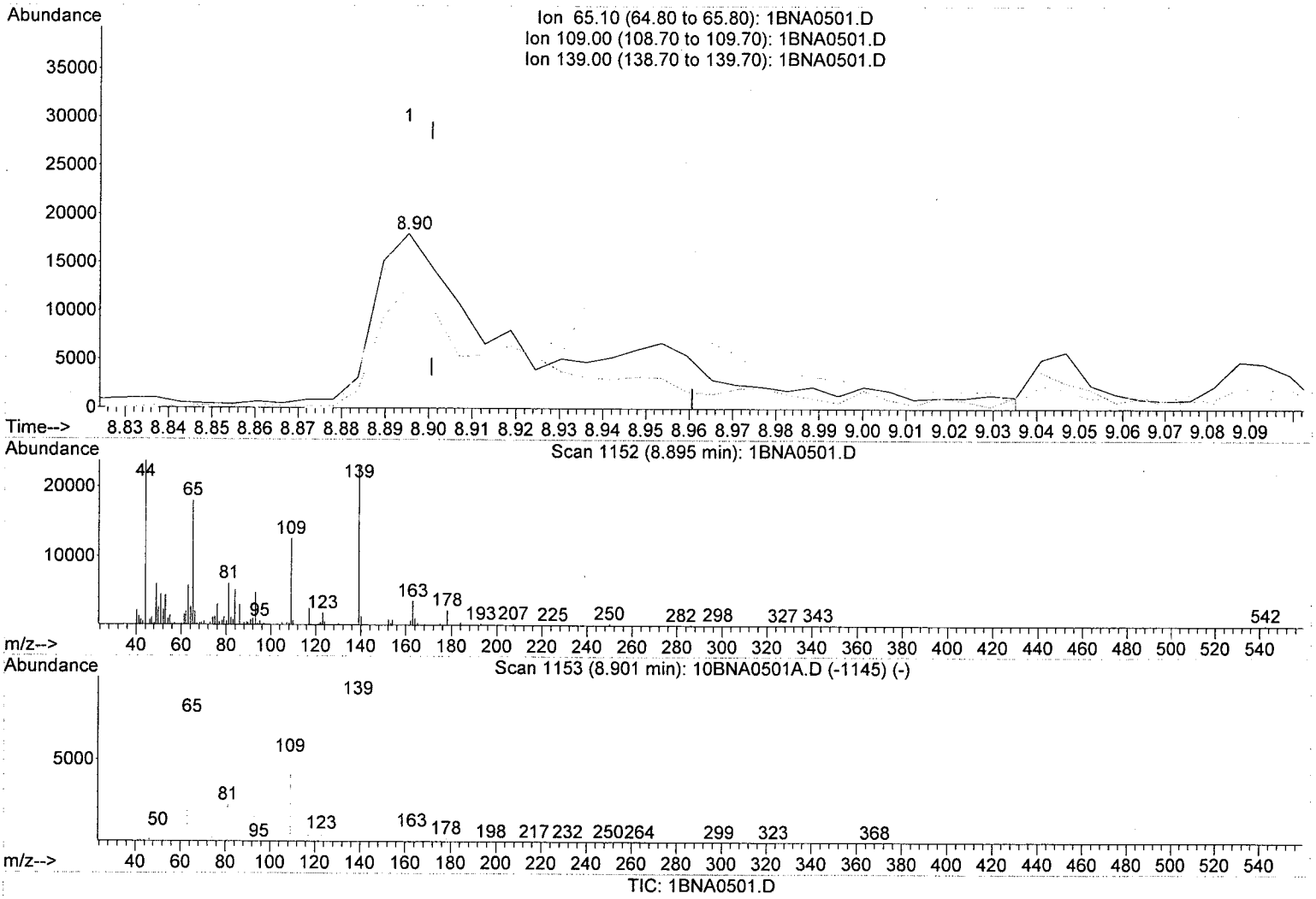
5-31-

Jus Stoltz

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 1BNA0501.D
Acq On : 1 May 2012 12:10
Operator : DMC
Sample : 1BNA0501
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 01 14:47:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:47:13 2012
Response via : Initial Calibration



TIC: 1BNA0501.D

(55) 4-Nitrophenol (P)

8.90min (-0.005) 2.02ug/l m

response 48733

Ion	Exp%	Act%
65.10	100	100
109.00	63.00	45.83#
139.00	98.10	76.19#
0.00	0.00	0.00

Manual Integration Explanation

Reason 3: Incorrect baseline drawn by the software.

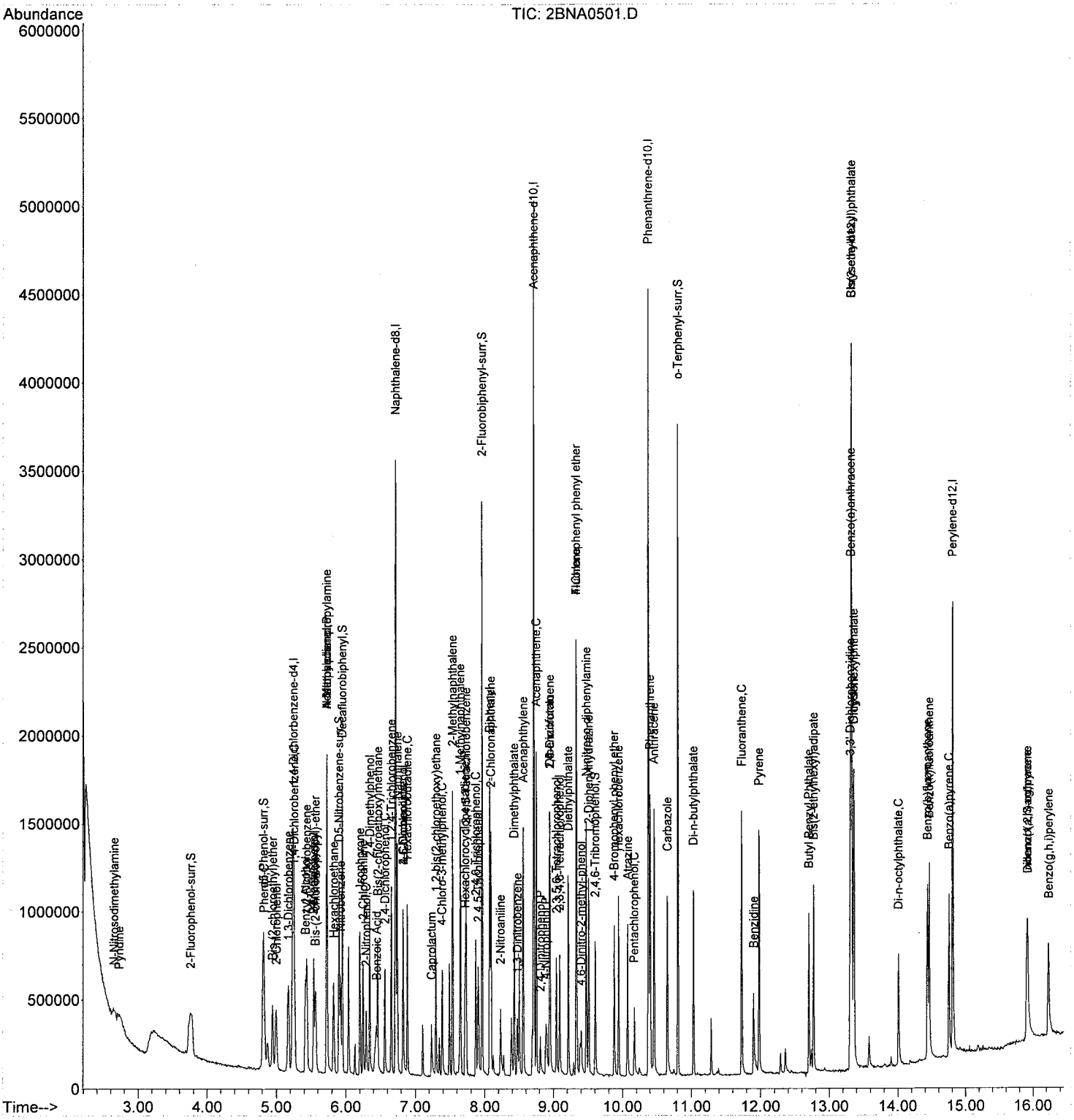
Flagged on Quantitation Report: Yes / No
Analyst: _____ Date: 5/10/12
Reviewed By: _____ Date: 5/10/12

00864

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:51:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:51:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.24	152	387292	5.00	ug/l	0.00 106.92%
21) Naphthalene-d8	6.72	136	1682251	5.00	ug/l	0.00 107.06%
42) Acenaphthene-d10	8.72	164	948347	5.00	ug/l	0.00 105.34%
65) Phenanthrene-d10	10.38	188	1561275m	5.00	ug/l	0.00 107.54%
79) Chrysene-d12	13.33	240	953094	5.00	ug/l	0.00 107.23%
90) Perylene-d12	14.81	264	1048665	5.00	ug/l	0.00 99.69%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.77	112	344209	3.93	ug/l	0.00
5) d5-Phenol-surr	4.81	99	455140	4.07	ug/l	0.00
19) Decafluorobiphenyl	5.95	334	354444	4.42	ug/l	0.00
22) D5-Nitrobenzene-surr	5.90	128	185676	3.98	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.96	172	919555	4.80	ug/l	0.00
64) 2,4,6-Tribromophenol	9.61	330	86154	4.03	ug/l	0.00
76) o-Terphenyl-surr	10.81	230	622789	4.47	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.65	74	114310	2.09	ug/l #	71
3) Pyridine	2.72	79	211301	2.12	ug/l #	68
6) Phenol	4.83	94	243585m	2.14	ug/l #	95
7) Bis (2-chloroethyl)ether	4.95	93	214956	2.08	ug/l #	72
8) 2-Chlorophenol	5.00	128	206922	2.10	ug/l #	83
9) 1,3-Dichlorobenzene	5.17	146	249669	2.15	ug/l #	88
10) 1,4-Dichlorobenzene	5.26	146	243219	2.15	ug/l	93
11) Benzaldehyde	5.55	105	2967	1.21	ug/l #	1
12) Benzyl Alcohol	5.42	108	113641	2.00	ug/l	91
13) 1,2-Dichlorobenzene	5.44	146	238437	2.22	ug/l #	87
14) 2-Methylphenol	5.54	108	180155	2.07	ug/l #	91
15) Bis-(2-chloroisopropyl)-et	5.57	45	262999	2.13	ug/l	96
16) Acetophenone	5.72	105	262820	2.12	ug/l	86
17) 4-Methylphenol	5.73	107	193590	2.12	ug/l	92
18) N-Nitrosodi-n-propylamine	5.73	70	133845	2.28	ug/l #	89
20) Hexachloroethane	5.83	117	85096	2.17	ug/l	94
23) Nitrobenzene	5.93	77	192185	2.07	ug/l #	92
24) Isophorone	6.20	82	370438	2.20	ug/l #	94
25) 2-Chloroaniline	6.25	127	240659	2.16	ug/l #	100
26) 2-Nitrophenol	6.30	139	99138	1.75	ug/l #	80
27) 2,4-Dimethylphenol	6.34	107	188871	2.14	ug/l	96
28) Benzoic Acid	6.44	105	169505	3.36	ug/l	89
29) Bis(2-chloroethoxy)methane	6.46	93	230453	2.13	ug/l	93
30) 2,4-Dichlorophenol	6.57	162	154346	2.06	ug/l	95
31) 1,2,4-Trichlorobenzene	6.66	180	208231	2.15	ug/l	99
32) Naphthalene	6.75	128	627973	2.20	ug/l	97
33) 4-Chloroaniline	6.83	127	94831	2.86	ug/l #	36
34) 2,6-Dichlorophenol	6.83	162	152678	2.04	ug/l	98

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:51:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.89	225	102296	2.21	ug/l		97
36) Caprolactum	7.24	55	62530	2.05	ug/l		91
37) 1,2-bis(2-chloroethoxy)eth	7.30	63	172622	2.10	ug/l		94
38) 4-Chloro-3-methylphenol	7.39	107	148875	2.09	ug/l	#	91
39) 2-Methylnaphthalene	7.54	142	436070	2.20	ug/l		96
40) 1-Methylnaphthalene	7.65	142	405927	2.14	ug/l		91
41) 1,3-Dinitrobenzene	8.48	168	56756	1.82	ug/l		100
43) Hexachlorocyclopentadiene	7.72	237	80882	1.90	ug/l		95
44) 1,2,4,5-Tetrachlorobenzene	7.73	216	181258	2.24	ug/l		98
45) 2,4,6-Trichlorophenol	7.87	196	104080	2.12	ug/l	#	93
46) 2,4,5-Trichlorophenol	7.91	198	101626	1.99	ug/l	#	94
48) 2-Chloronaphthalene	8.09	162	393370	2.29	ug/l		98
49) Biphenyl	8.07	154	491881	2.26	ug/l		99
50) 2-Nitroaniline	8.23	138	97631	1.94	ug/l	#	82
51) Dimethylphthalate	8.43	163	431242	2.26	ug/l	#	90
52) 2,6-Dinitrotoluene	8.96	165	102916	2.41	ug/l		90
53) Acenaphthylene	8.56	152	594748	2.18	ug/l		99
54) Acenaphthene	8.75	154	362242	2.18	ug/l		99
55) 4-Nitrophenol	8.89	65	67891	2.96	ug/l	#	85
56) 2,4-Dinitrotoluene	8.96	165	105738	2.14	ug/l	#	79
57) 2,4-Dinitrophenol	8.81	184	42510	2.60	ug/l	#	86
58) Dibenzofuran	8.95	168	550368	2.29	ug/l		95
59) 2,3,5,6-Tetrachlorophenol	9.05	232	80210	1.93	ug/l		95
60) 2,3,4,6-Tetrachlorophenol	9.09	232	86890	2.07	ug/l		99
61) Diethylphthalate	9.21	149	386192	2.07	ug/l		99
62) 4-Chlorophenyl phenyl ethe	9.34	204	205331	2.16	ug/l	#	93
63) Fluorene	9.33	166	443611m	2.28	ug/l	#	92
66) 4,6-Dinitro-2-methyl-pheno	9.41	198	33133	1.46	ug/l		93
67) 1,2-Diphenylhydrazine	9.51	77	364435	2.23	ug/l	#	86
68) N-nitroso-diphenylamine	9.48	169	364673	2.26	ug/l		99
69) 4-Bromophenyl phenyl ether	9.88	248	107480	2.11	ug/l		99
70) Hexachlorobenzene	9.94	284	117926	2.13	ug/l		93
71) Atrazine	10.08	200	90686	2.13	ug/l		100
72) Pentachlorophenol	10.18	266	53001	1.92	ug/l		96
73) Phenanthrene	10.40	178	570718	2.21	ug/l		98
74) Anthracene	10.46	178	561632	2.20	ug/l		98
75) Carbazole	10.65	167	480470	2.46	ug/l	#	94
77) Di-n-butylphthalate	11.04	149	530127	2.17	ug/l		99
78) Fluoranthene	11.73	202	543650	2.12	ug/l		96
80) Benzidine	11.90	184	259359	5.21	ug/l		97
81) Pyrene	11.98	202	561767	2.10	ug/l		99
82) Butyl Benzyl Phthalate	12.70	149	193140	2.00	ug/l	#	82
83) Bis(2-ethylhexyl)adipate	12.77	129	169809	2.03	ug/l	#	87
84) Bis(2-ethylhexyl)phthalate	13.33	149	256994	2.08	ug/l		98
85) Dicyclohexylphthalate	13.37	149	385711	2.20	ug/l	#	85
86) 3,3' Dichlorobenzidine	13.30	252	263771	4.48	ug/l		99
87) Benzo(a)anthracene	13.31	228	456472	2.12	ug/l		98
88) Chrysene	13.35	228	484961	2.13	ug/l	#	91
89) Di-n-octylphthalate	14.01	149	360335	1.88	ug/l	#	100
91) Benzo(b)fluoroanthene	14.43	252	408977	2.12	ug/l		99
92) Benzo(k)fluoroanthene	14.46	252	464476	2.11	ug/l		99
93) Benzo(a)pyrene	14.75	252	393855	2.08	ug/l		98

00867

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:51:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration

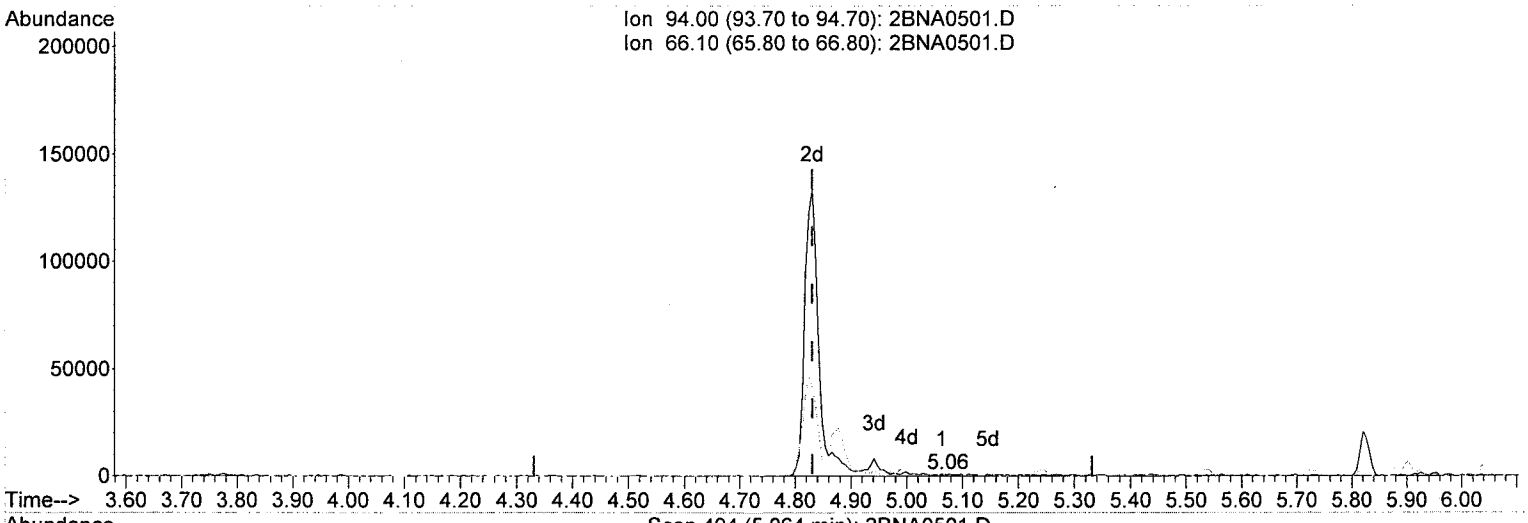
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.91	276	381170	2.00	ug/l	98
95) Dibenzo(a,h)anthracene	15.92	278	305170	1.97	ug/l	96
96) Benzo(g,h,i)perylene	16.23	276	358079	1.97	ug/l	97

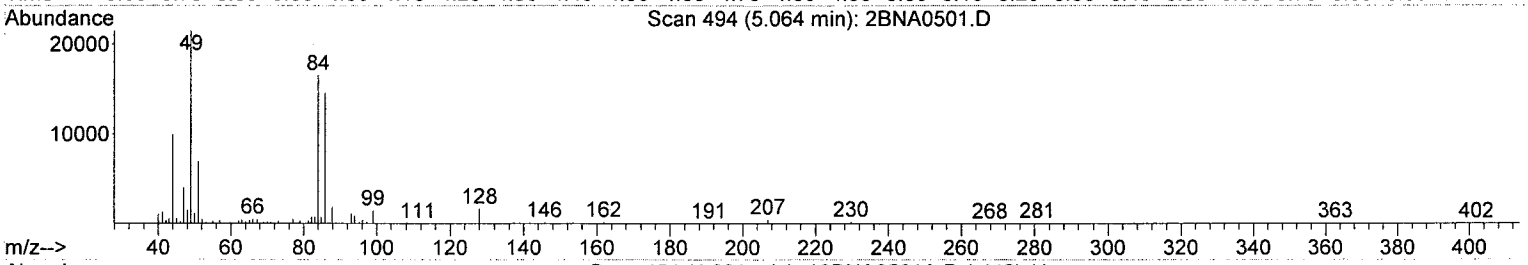
(#) = qualifier out of range (m) = manual integration (+) = signals summed

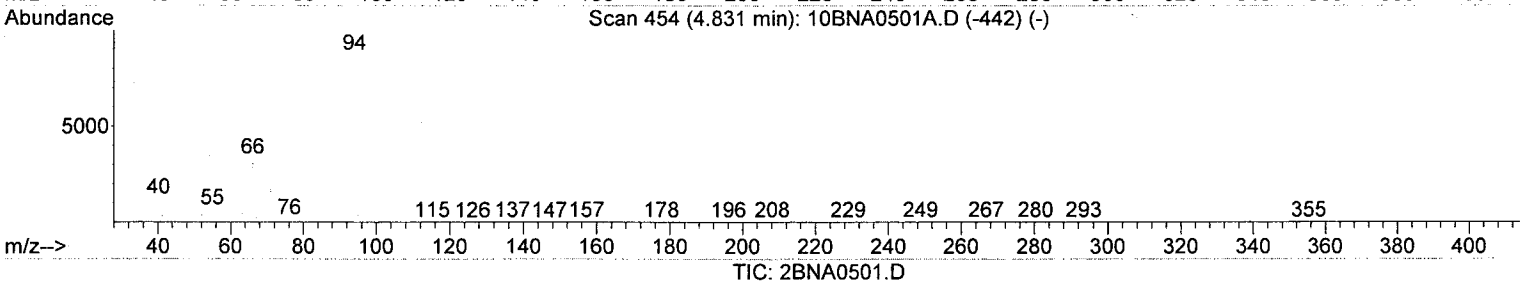
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:49:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration







TIC: 2BNA0501.D

(6) Phenol (C)

5.06min (+0.232) 0.01ug/l

response 1592

Ion	Exp%	Act%
94.00	100	100
66.10	73.10	68.97
0.00	0.00	0.00
0.00	0.00	0.00

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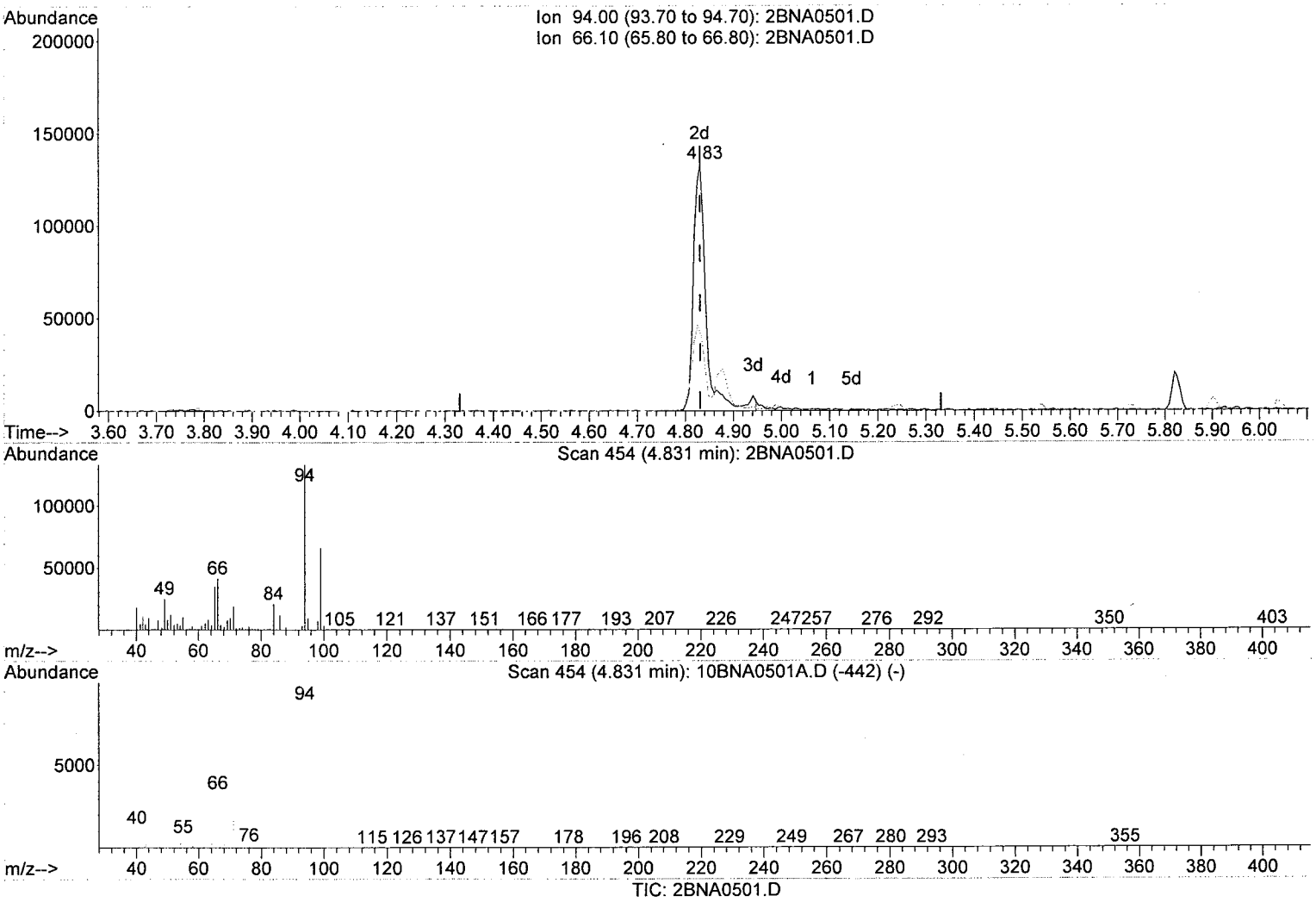
00869

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:49:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration



TIC: 2BNA0501.D

(6) Phenol (C)

4.83min (-0.000) 2.14ug/l m

response 243585

Ion	Exp%	Act%
94.00	100	100
66.10	73.10	0.45#
0.00	0.00	0.00
0.00	0.00	0.00

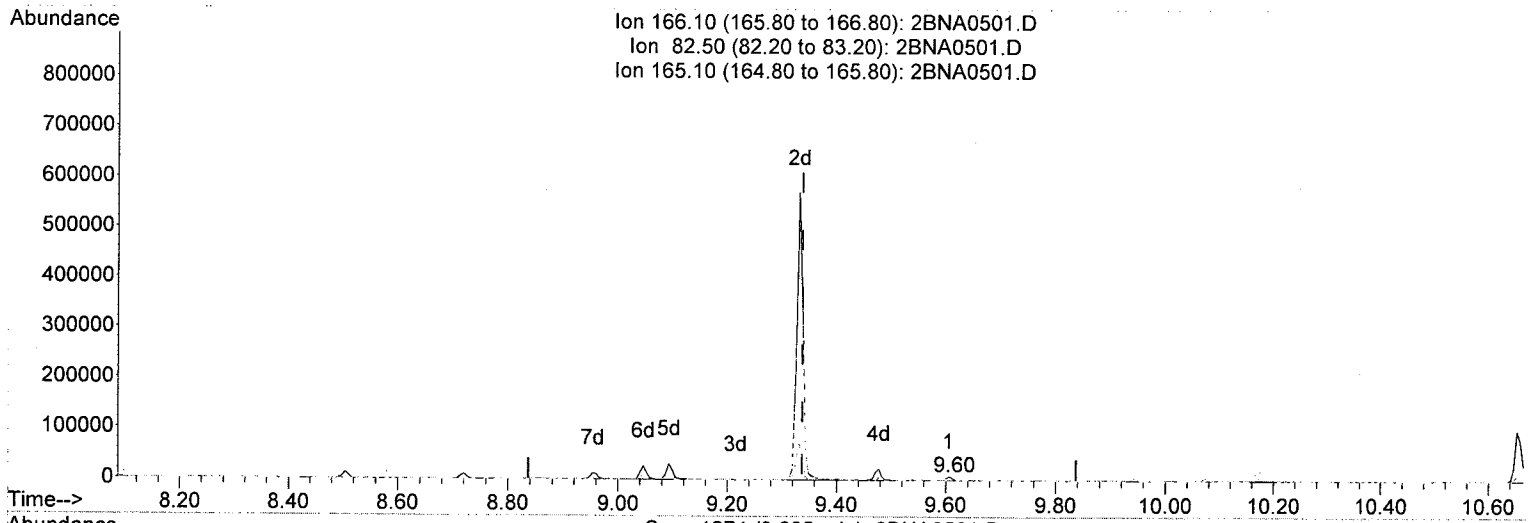
Manual Integration Explanation

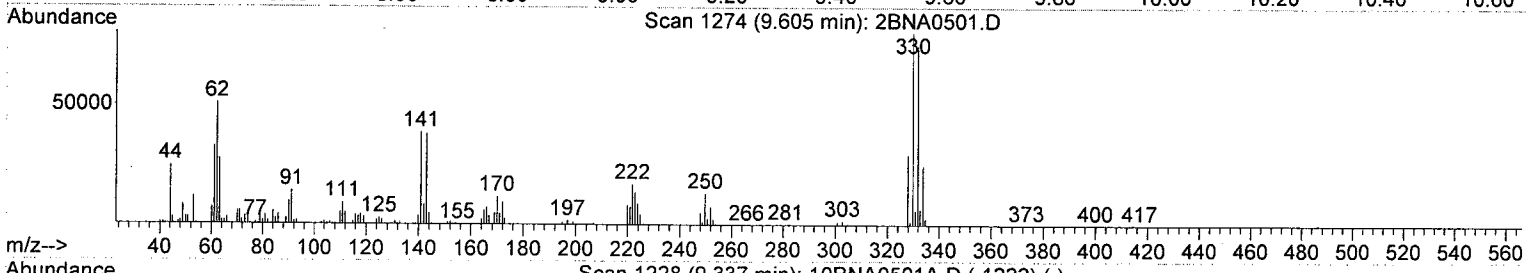
Reason 4: The peak was not integrated during initial quantitation of the sample.

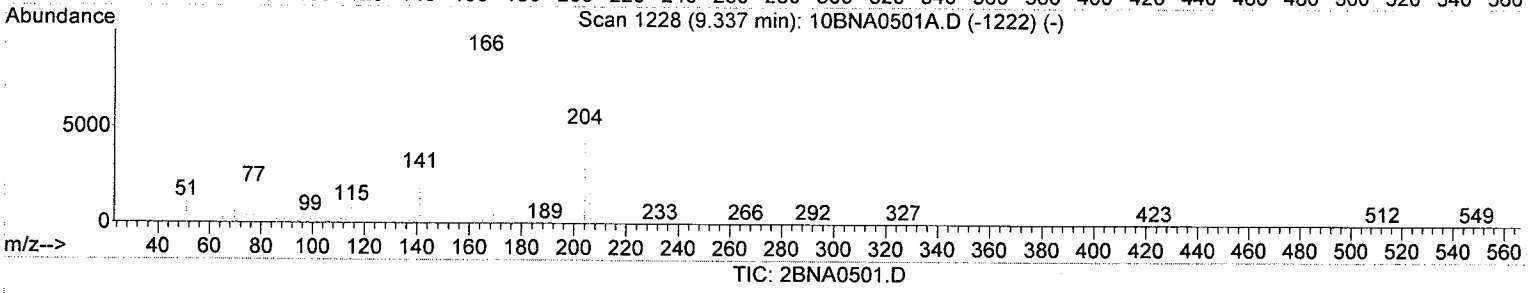
Flagged on Quantitation Report: Yes / No
Analyst: L Date: 5/1/12
Reviewed By: JLB Date: 5/10/12

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:49:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration







TIC: 2BNA0501.D

(63) Fluorene

9.60min (+0.267) 0.04ug/l

response 6926

Ion	Exp%	Act%
166.10	100	100
82.50	16.50	15.90
165.10	90.90	99.29
0.00	0.00	0.00

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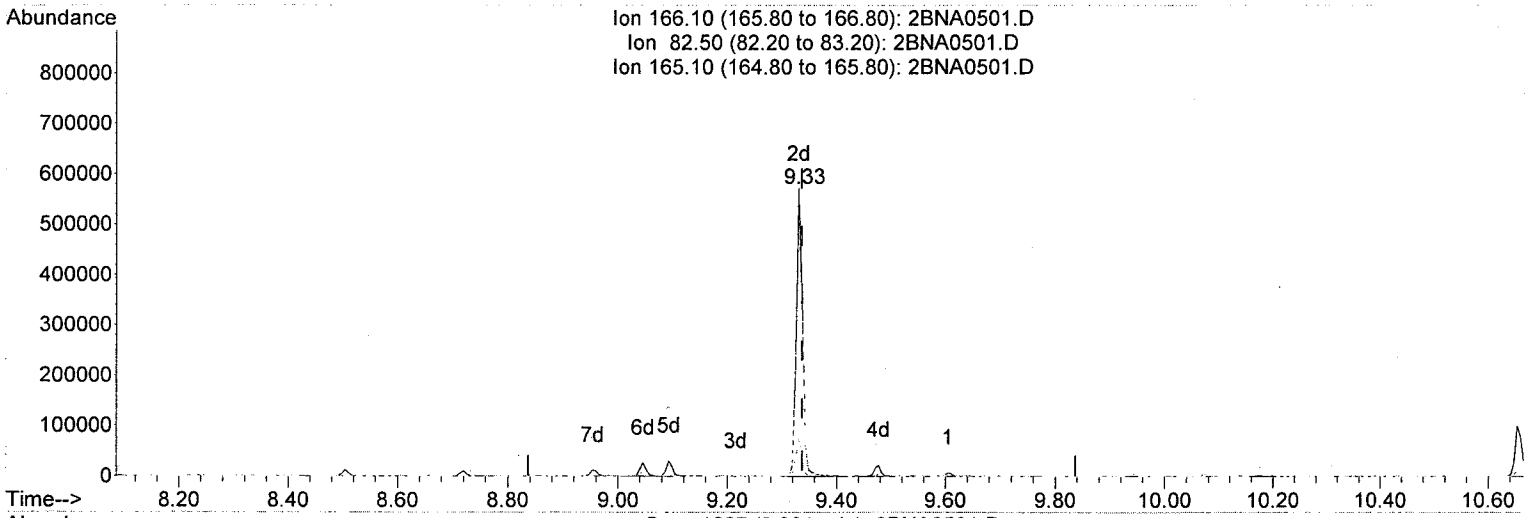
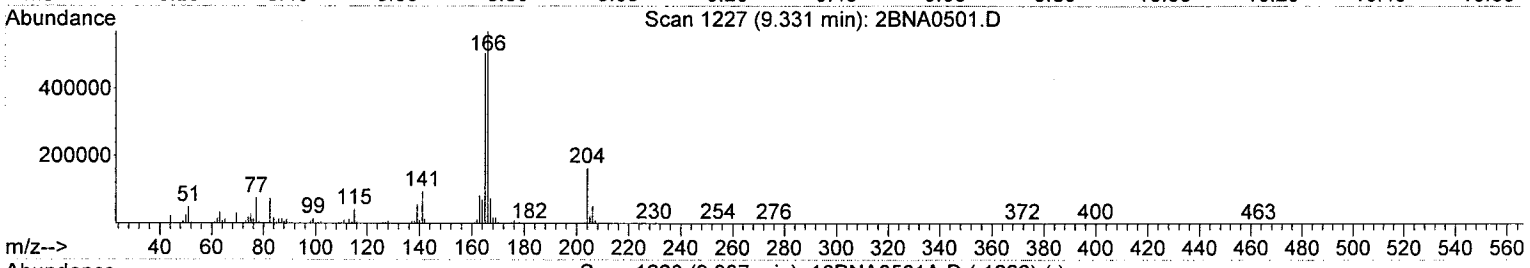
00871

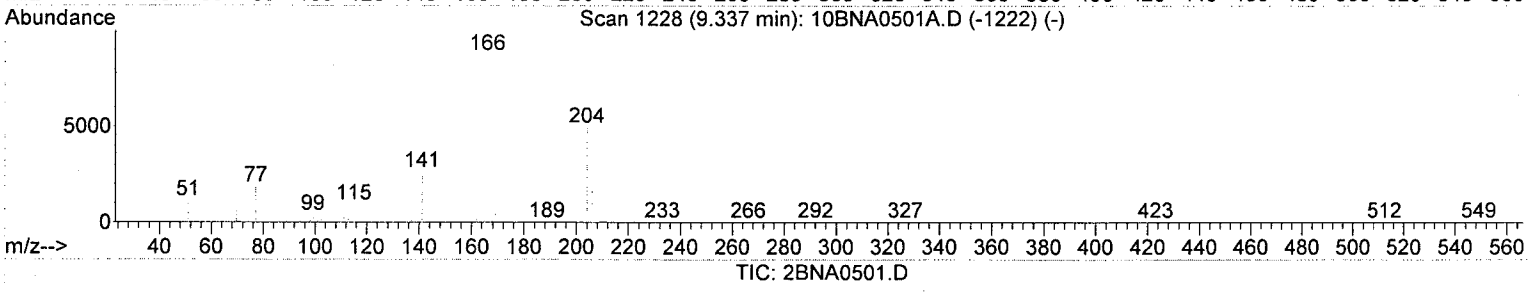
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:49:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration







TIC: 2BNA0501.D

(63) Fluorene

9.33min (-0.006) 2.28ug/l m

response 443611

Ion	Exp%	Act%
166.10	100	100
82.50	16.50	0.25#
165.10	90.90	1.55#
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

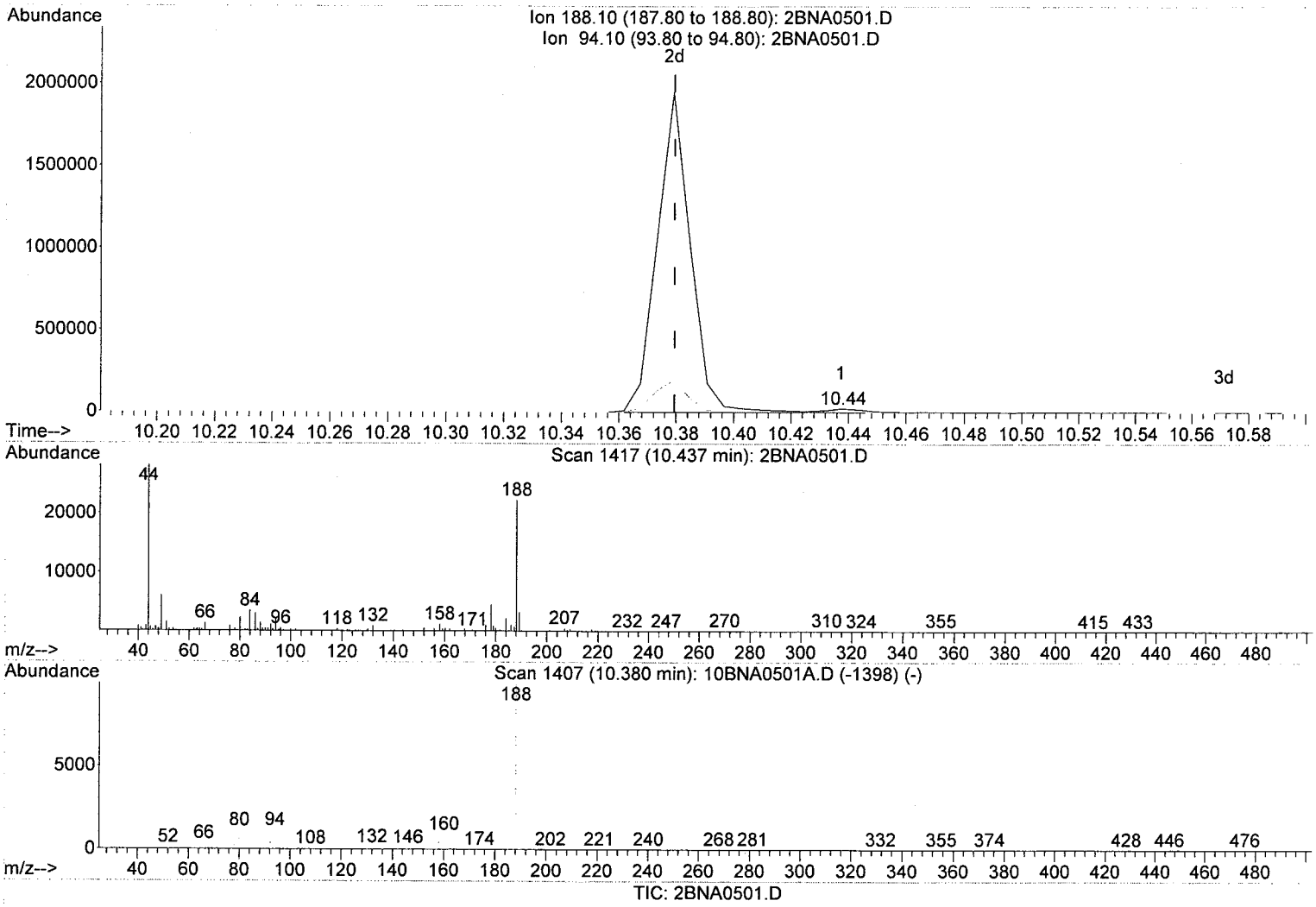
Analyst: [signature] Date: 5/10

Reviewed By: [signature] Date: 5/10/12

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:49:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration



TIC: 2BNA0501.D

(65) Phenanthrene-d10 (I)

10.44min (+0.058) 5.00ug/l

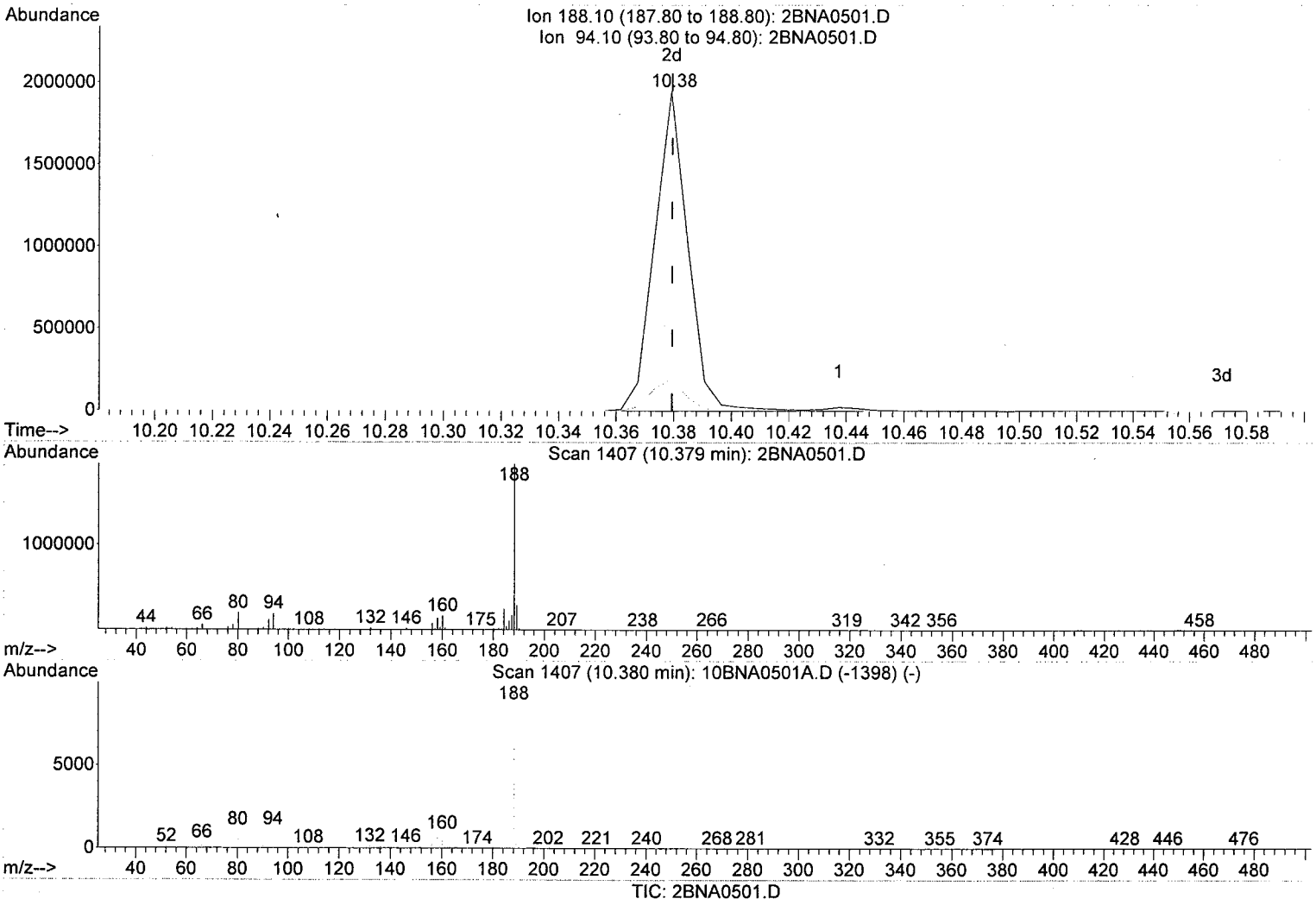
response 29926

Ion	Exp%	Act%
188.10	100	100
94.10	13.20	13.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 2BNA0501.D
Acq On : 1 May 2012 12:36
Operator : DMC
Sample : 2BNA0501
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 01 14:49:57 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:49:45 2012
Response via : Initial Calibration



TIC: 2BNA0501.D

(65) Phenanthrene-d10 (I)

10.38min (-0.000) 5.00ug/l m

response 1561275

Ion	Exp%	Act%
188.10	100	100
94.10	13.20	0.26#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

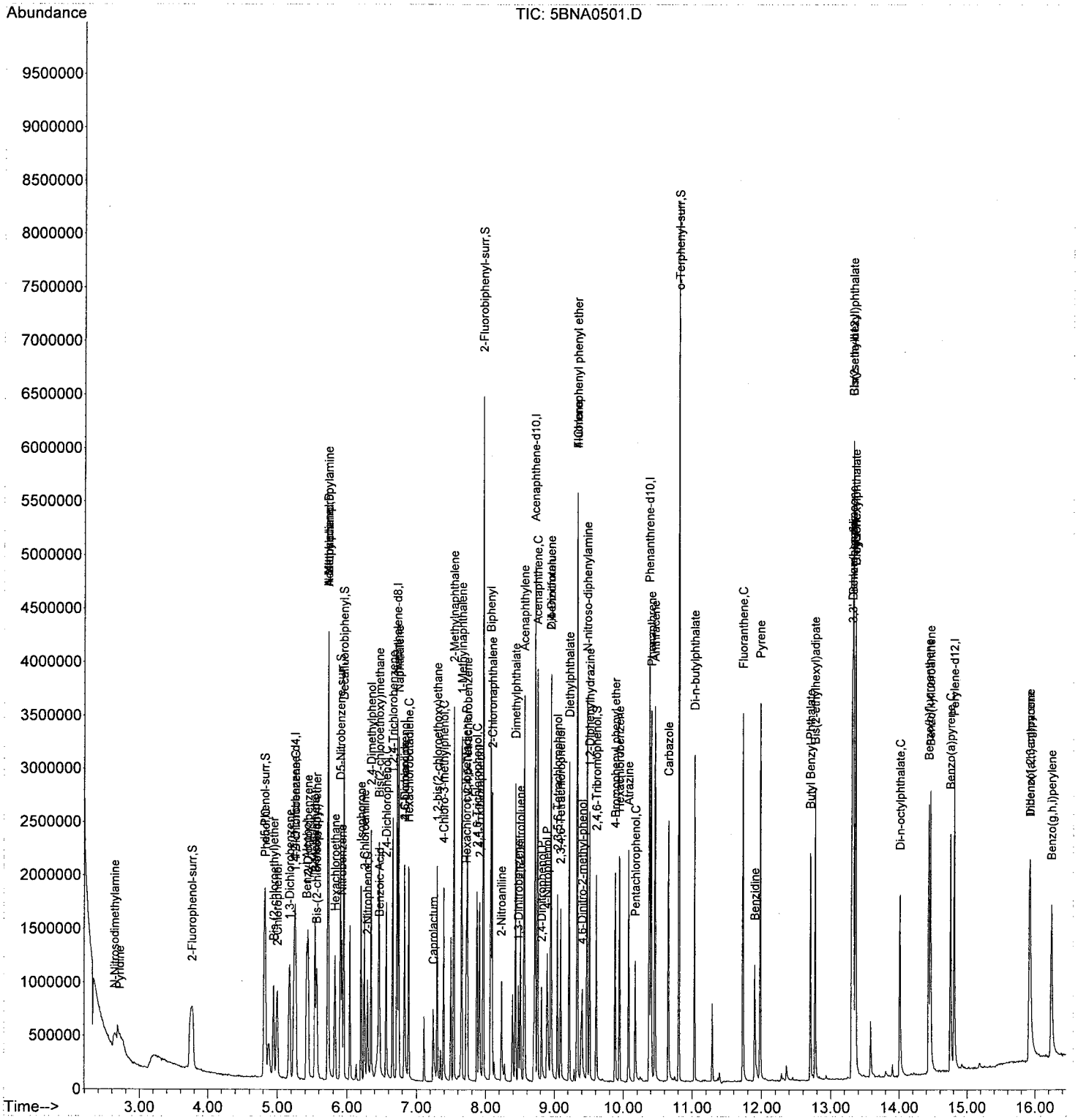
Analyst: _____ Date: 5/1/12

Reviewed By: _____ Date: 5/10/12

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 01 14:53:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration



Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 01 14:53:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.24	152	361223	5.00	ug/l	0.00 99.72%
21) Naphthalene-d8	6.72	136	1592661	5.00	ug/l	0.00 101.36%
42) Acenaphthene-d10	8.72	164	913941	5.00	ug/l	0.00 101.52%
65) Phenanthrene-d10	10.38	188	1499509m	5.00	ug/l	0.00 103.29%
79) Chrysene-d12	13.32	240	957264	5.00	ug/l	0.00 107.69%
90) Perylene-d12	14.81	264	1064942	5.00	ug/l	0.00 101.24%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.76	112	825919	10.01	ug/l	0.00
5) d5-Phenol-surr	4.81	99	1033723	9.87	ug/l	0.00
19) Decafluorobiphenyl	5.95	334	746429	9.88	ug/l	0.00
22) D5-Nitrobenzene-surr	5.90	128	423545	9.58	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.96	172	1965266	10.52	ug/l	0.00
64) 2,4,6-Tribromophenol	9.61	330	205449	9.91	ug/l	0.00
76) o-Terphenyl-surr	10.81	230	1372966	10.21	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.64	74	258589	4.95	ug/l #	75
3) Pyridine	2.72	79	470169	4.98	ug/l #	66
6) Phenol	4.83	94	565128	5.25	ug/l #	53
7) Bis (2-chloroethyl)ether	4.95	93	484431	4.96	ug/l #	75
8) 2-Chlorophenol	5.00	128	474217	5.10	ug/l #	84
9) 1,3-Dichlorobenzene	5.17	146	555417	5.06	ug/l #	89
10) 1,4-Dichlorobenzene	5.26	146	550177	5.16	ug/l	92
11) Benzaldehyde	5.54	105	3901	1.96	ug/l #	1
12) Benzyl Alcohol	5.42	108	282049	5.29	ug/l	90
13) 1,2-Dichlorobenzene	5.44	146	528838	5.21	ug/l #	87
14) 2-Methylphenol	5.54	108	431141	5.26	ug/l #	92
15) Bis-(2-chloroisopropyl)-et	5.56	45	599981	5.19	ug/l	93
16) Acetophenone	5.73	105	598100	5.13	ug/l	85
17) 4-Methylphenol	5.73	107	461613	5.34	ug/l	92
18) N-Nitrosodi-n-propylamine	5.73	70	294356	5.29	ug/l #	86
20) Hexachloroethane	5.83	117	187508	5.05	ug/l	92
23) Nitrobenzene	5.92	77	443322	5.07	ug/l #	90
24) Isophorone	6.20	82	829036	5.12	ug/l #	92
25) 2-Chloroaniline	6.25	127	550459	5.16	ug/l #	100
26) 2-Nitrophenol	6.29	139	290133	5.46	ug/l #	72
27) 2,4-Dimethylphenol	6.34	107	433293	5.15	ug/l	93
28) Benzoic Acid	6.47	105	494239	10.11	ug/l	89
29) Bis(2-chloroethoxy)methane	6.46	93	531495	5.18	ug/l	91
30) 2,4-Dichlorophenol	6.57	162	373602	5.26	ug/l	96
31) 1,2,4-Trichlorobenzene	6.66	180	478095	5.21	ug/l	99
32) Naphthalene	6.75	128	1401734	5.14	ug/l	96
33) 4-Chloroaniline	6.83	127	226239	6.96	ug/l #	43
34) 2,6-Dichlorophenol	6.83	162	360279	5.06	ug/l	98

00876

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 01 14:53:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.89	225	227445	5.16	ug/l		98
36) Caprolactum	7.24	55	143921	4.85	ug/l		93
37) 1,2-bis(2-chloroethoxy)eth	7.30	63	407005	5.24	ug/l		96
38) 4-Chloro-3-methylphenol	7.39	107	350019	5.14	ug/l		87
39) 2-Methylnaphthalene	7.54	142	966532	5.12	ug/l		96
40) 1-Methylnaphthalene	7.65	142	924013	5.11	ug/l		90
41) 1,3-Dinitrobenzene	8.47	168	147009	4.97	ug/l		100
43) Hexachlorocyclopentadiene	7.72	237	200778	4.92	ug/l		96
44) 1,2,4,5-Tetrachlorobenzene	7.74	216	411800	5.21	ug/l		98
45) 2,4,6-Trichlorophenol	7.87	196	246844	5.13	ug/l		93
46) 2,4,5-Trichlorophenol	7.91	198	240341	4.87	ug/l		92
48) 2-Chloronaphthalene	8.10	162	866078	5.17	ug/l		100
49) Biphenyl	8.07	154	1125688	5.30	ug/l		95
50) 2-Nitroaniline	8.24	138	255647	5.19	ug/l	#	82
51) Dimethylphthalate	8.43	163	984997	5.29	ug/l	#	91
52) 2,6-Dinitrotoluene	8.50	165	208057m	4.89	ug/l	#	87
53) Acenaphthylene	8.56	152	1390022	5.23	ug/l		99
54) Acenaphthene	8.75	154	830902	5.14	ug/l		99
55) 4-Nitrophenol	8.89	65	211195	9.76	ug/l	#	77
56) 2,4-Dinitrotoluene	8.96	165	262953	5.42	ug/l	#	76
57) 2,4-Dinitrophenol	8.81	184	158143	9.67	ug/l	#	83
58) Dibenzofuran	8.95	168	1238548	5.29	ug/l	#	97
59) 2,3,5,6-Tetrachlorophenol	9.05	232	204555	5.07	ug/l		97
60) 2,3,4,6-Tetrachlorophenol	9.10	232	209009	5.13	ug/l		98
61) Diethylphthalate	9.22	149	931530	5.14	ug/l		99
62) 4-Chlorophenyl phenyl ethe	9.34	204	473522	5.15	ug/l	#	92
63) Fluorene	9.33	166	1005590	5.29	ug/l	#	98
66) 4,6-Dinitro-2-methyl-pheno	9.41	198	111583	5.05	ug/l		90
67) 1,2-Diphenylhydrazine	9.51	77	849421	5.34	ug/l	#	87
68) N-nitroso-diphenylamine	9.48	169	839711	5.34	ug/l	#	97
69) 4-Bromophenyl phenyl ether	9.88	248	257713	5.24	ug/l		99
70) Hexachlorobenzene	9.95	284	277534	5.20	ug/l		95
71) Atrazine	10.08	200	224966	5.40	ug/l		99
72) Pentachlorophenol	10.17	266	140967	5.09	ug/l	#	94
73) Phenanthrene	10.41	178	1313168	5.24	ug/l		98
74) Anthracene	10.46	178	1333888	5.37	ug/l		98
75) Carbazole	10.66	167	1132073	5.98	ug/l	#	92
77) Di-n-butylphthalate	11.04	149	1342088	5.59	ug/l		100
78) Fluoranthene	11.73	202	1345864	5.42	ug/l		95
80) Benzidine	11.90	184	548407	10.49	ug/l		97
81) Pyrene	11.99	202	1385691	5.13	ug/l		99
82) Butyl Benzyl Phthalate	12.71	149	513395m	5.15	ug/l	#	92
83) Bis(2-ethylhexyl)adipate	12.77	129	456042	5.26	ug/l	#	87
84) Bis(2-ethylhexyl)phthalate	13.32	149	684918	5.35	ug/l		98
85) Dicyclohexylphthalate	13.37	149	955431	5.32	ug/l	#	85
86) 3,3' Dichlorobenzidine	13.31	252	614895	10.03	ug/l		99
87) Benzo(a)anthracene	13.31	228	1119018	5.11	ug/l		98
88) Chrysene	13.35	228	1153875	5.00	ug/l	#	91
89) Di-n-octylphthalate	14.01	149	1052975	5.28	ug/l	#	100
91) Benzo(b)fluoroanthene	14.44	252	993178	4.99	ug/l		99
92) Benzo(k)fluoroanthene	14.46	252	1181687	5.25	ug/l		98
93) Benzo(a)pyrene	14.75	252	1013291	5.17	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

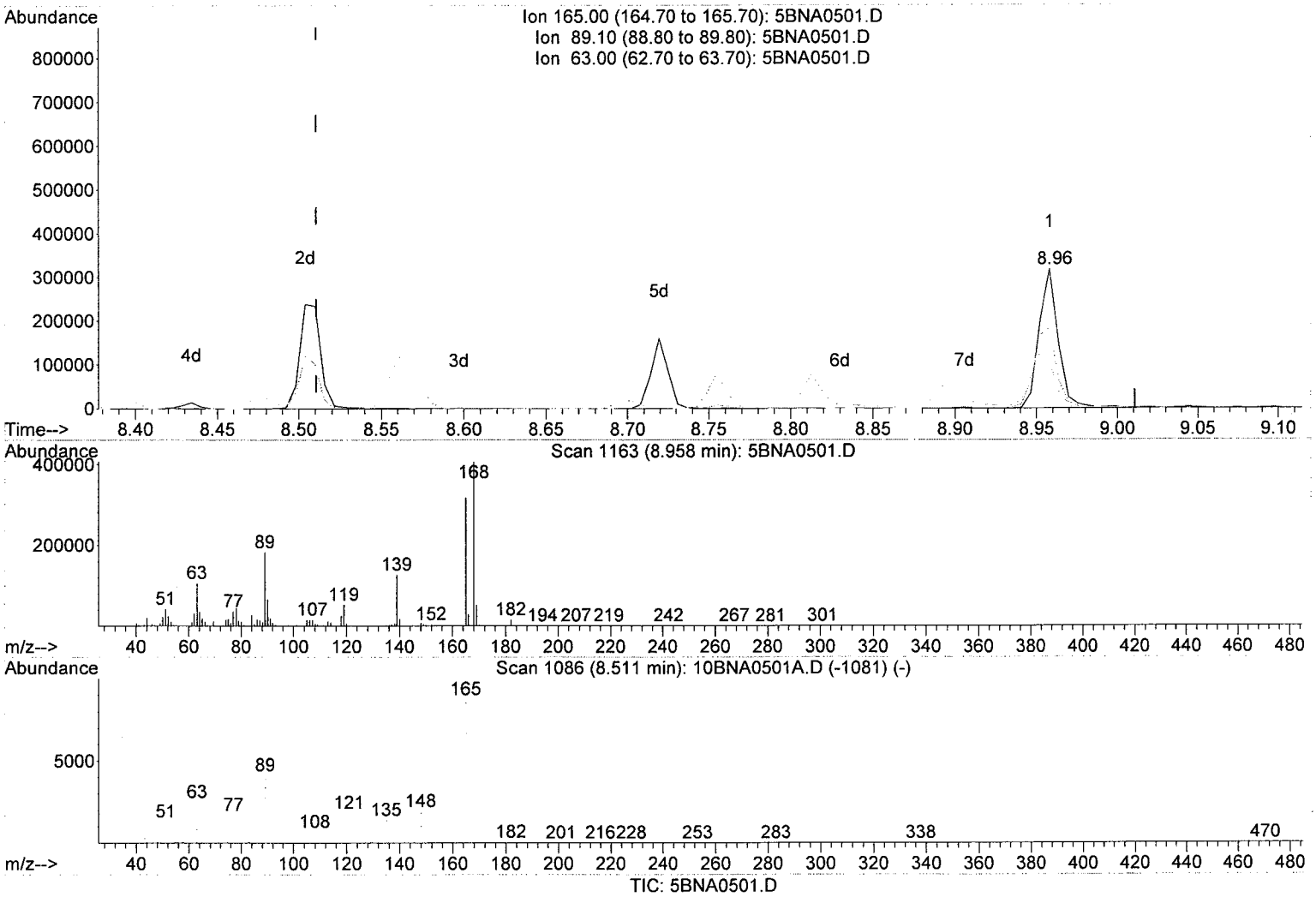
Quant Time: May 01 14:53:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.92	276	1039331	5.34	ug/l	99
95) Dibenzo(a,h)anthracene	15.93	278	824653	5.21	ug/l	96
96) Benzo(g,h,i)perylene	16.24	276	912309	4.92	ug/l	98

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

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 01 14:52:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration



TIC: 5BNA0501.D

(52) 2,6-Dinitrotoluene

8.96min (+0.447) 6.06ug/l

response 258230

Ion	Exp%	Act%
165.00	100	100
89.10	59.10	68.67
63.00	58.70	49.09
0.00	0.00	0.00

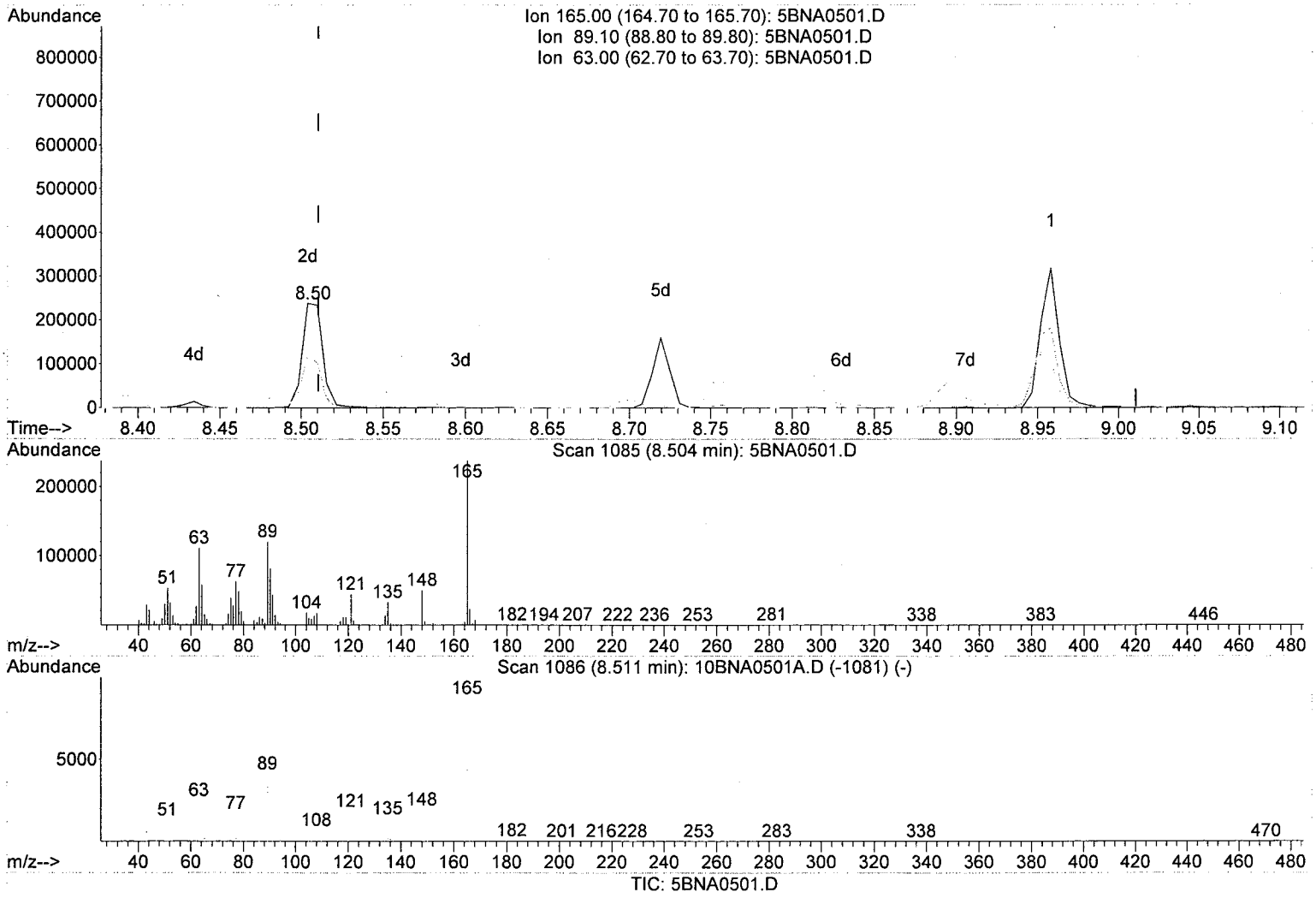
CTJ 5/10/12

00879

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 01 14:52:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration



TIC: 5BNA0501.D

(52) 2,6-Dinitrotoluene

8.50min (-0.007) 4.89ug/l m

response 208057

Ion	Exp%	Act%
165.00	100	100
89.10	59.10	85.23#
63.00	58.70	60.92
0.00	0.00	0.00

Manual Integration Explanation

Reason 1: Incorrect peak integrated by the software.

Flagged on Quantitation Report: Yes / No

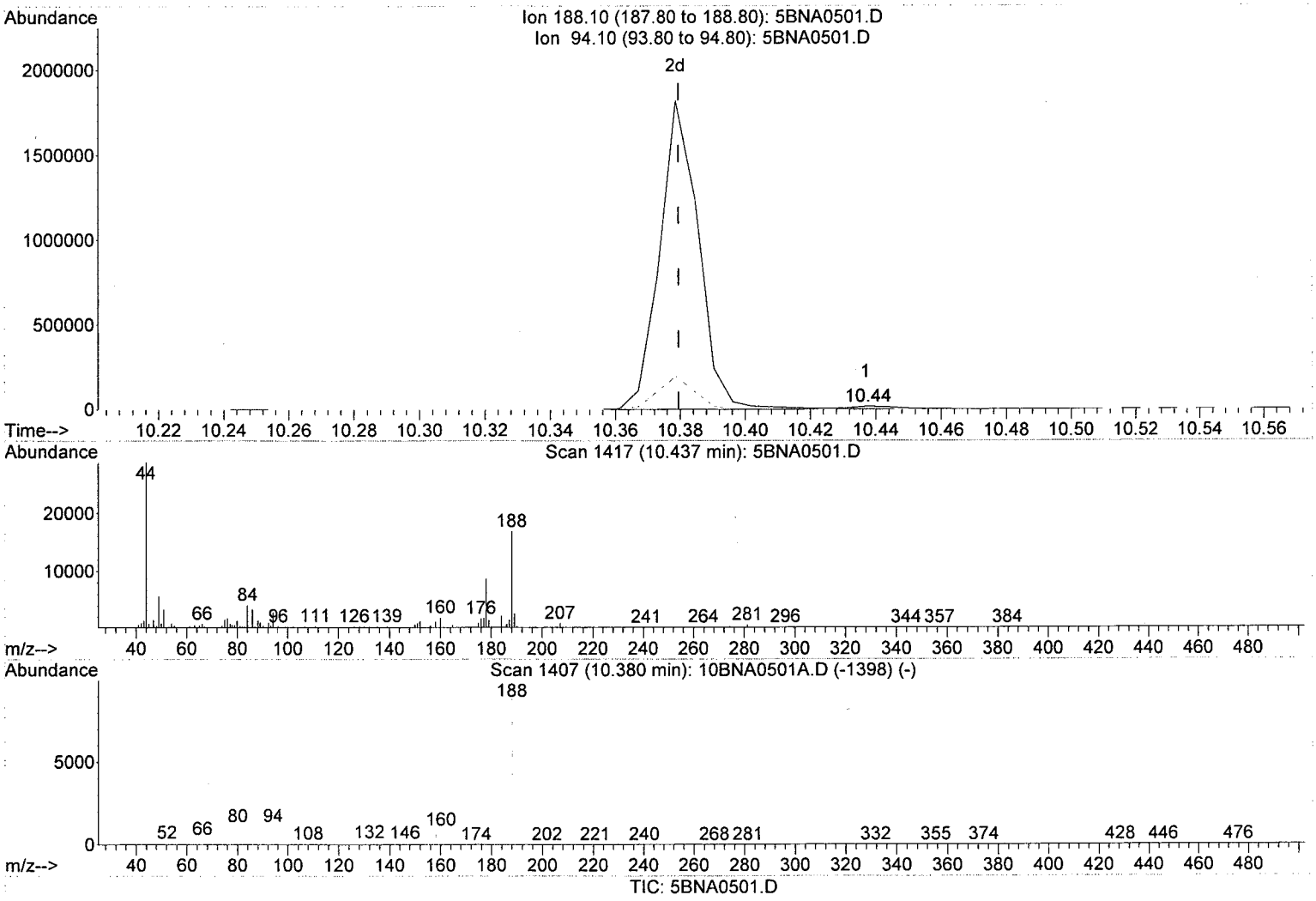
Analyst: L Date: 5/10/12

Reviewed By: JWS Date: 5/10/12

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 01 14:52:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration



TIC: 5BNA0501.D

(65) Phenanthrene-d10 (I)

10.44min (+0.057) 5.00ug/l

response 21189

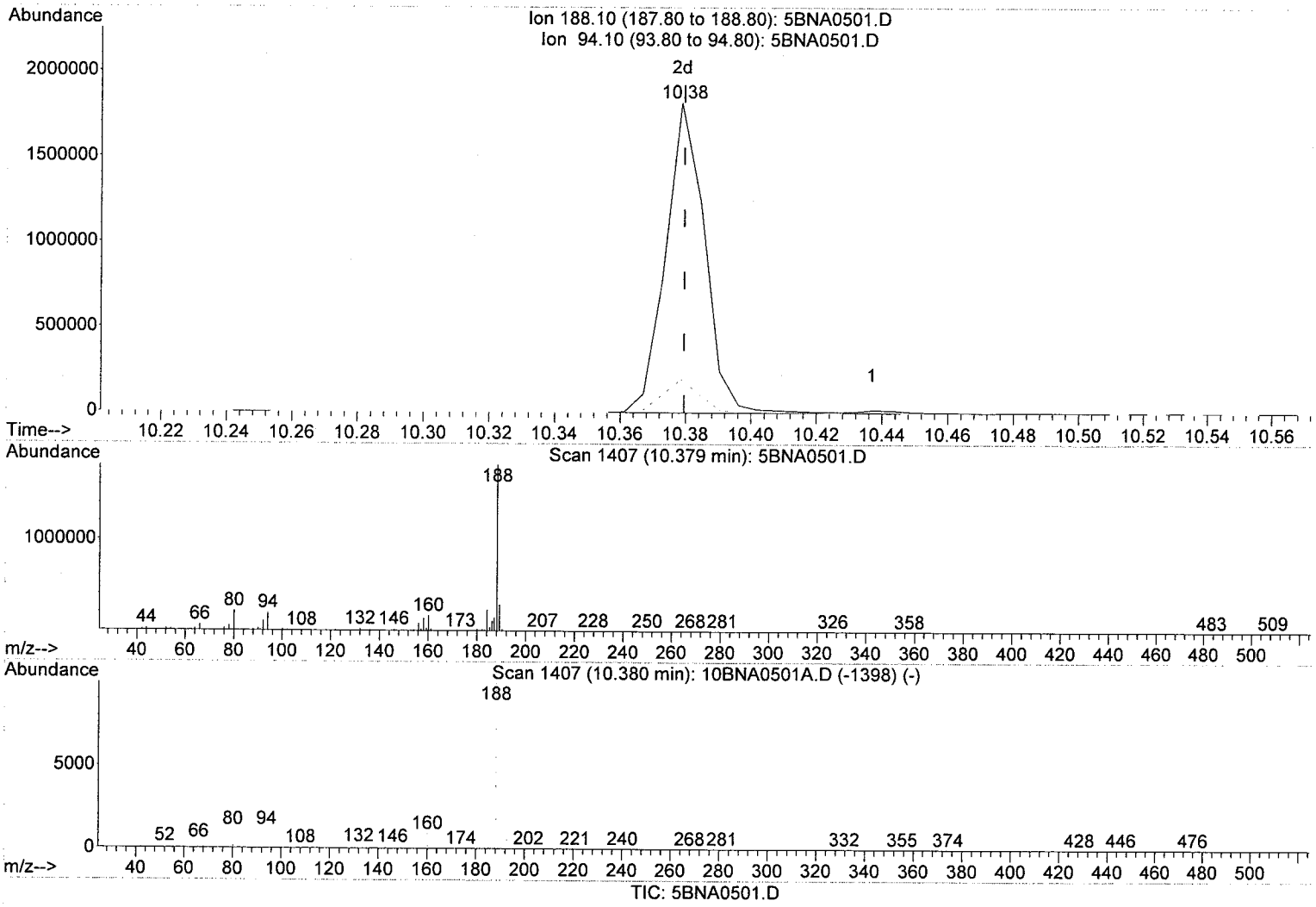
Ion	Exp%	Act%
188.10	100	100
94.10	13.20	13.39
0.00	0.00	0.00
0.00	0.00	0.00

1 of 16
JMS 5/10/12

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 01 14:52:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration



TIC: 5BNA0501.D

(65) Phenanthrene-d10 (I)

10.38min (-0.001) 5.00ug/l m

response 1499509

Ion	Exp%	Act%
188.10	100	100
94.10	13.20	0.19#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

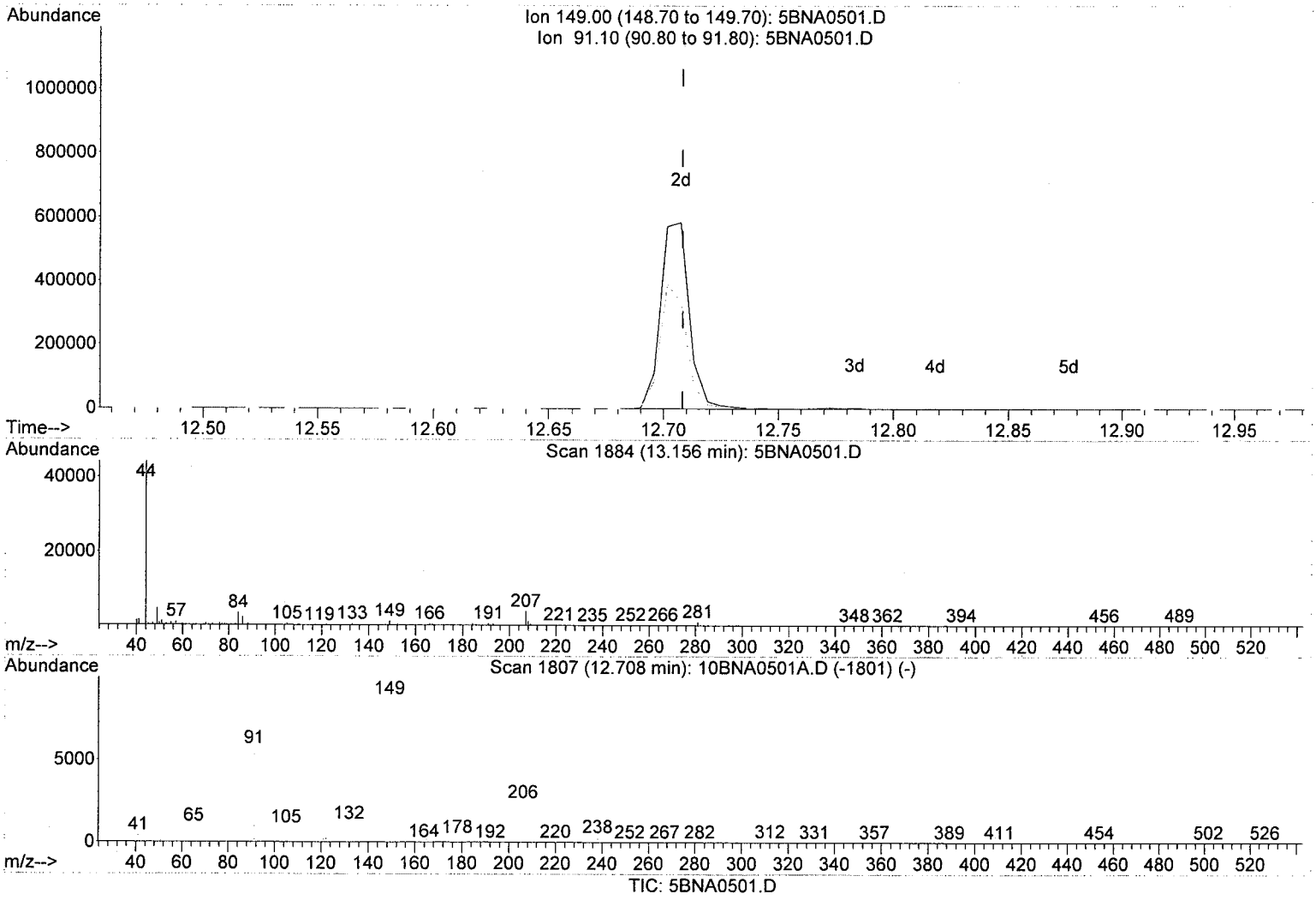
Analyst: _____ Date: 5/2

Reviewed By: _____ Date: 5/10/12

00882

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 01 14:52:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration



(82) Butyl Benzyl Phthalate

13.16min (+0.447) 0.01ug/l

response 1331

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	87.60
0.00	0.00	0.00
0.00	0.00	0.00

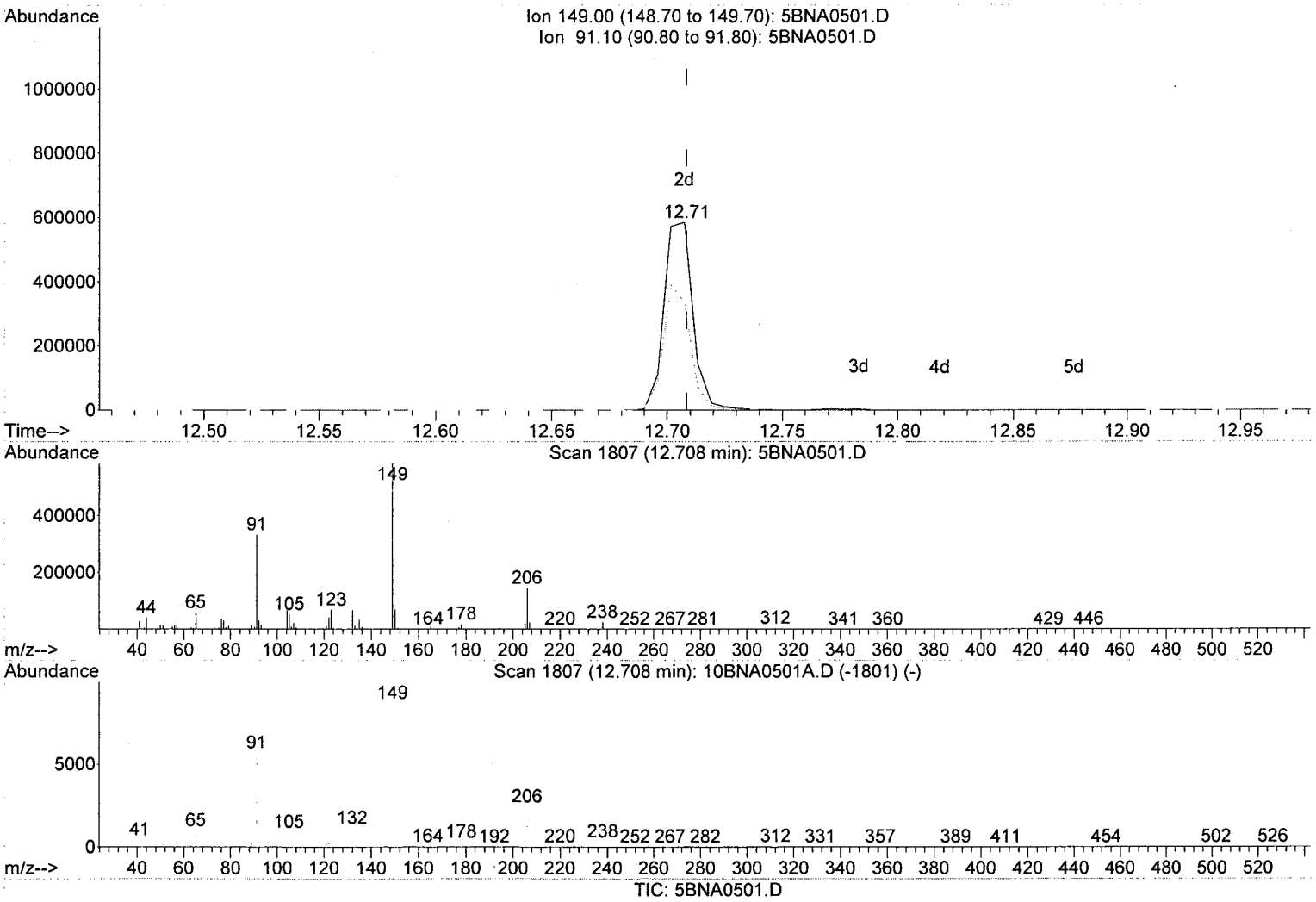
CT SC

00883

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 5BNA0501.D
Acq On : 1 May 2012 13:02
Operator : DMC
Sample : 5BNA0501
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 01 14:52:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:51:48 2012
Response via : Initial Calibration



TIC: 5BNA0501.D

(82) Butyl Benzyl Phthalate

12.71min (-0.001) 5.15ug/l m

response 513395

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	0.23#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

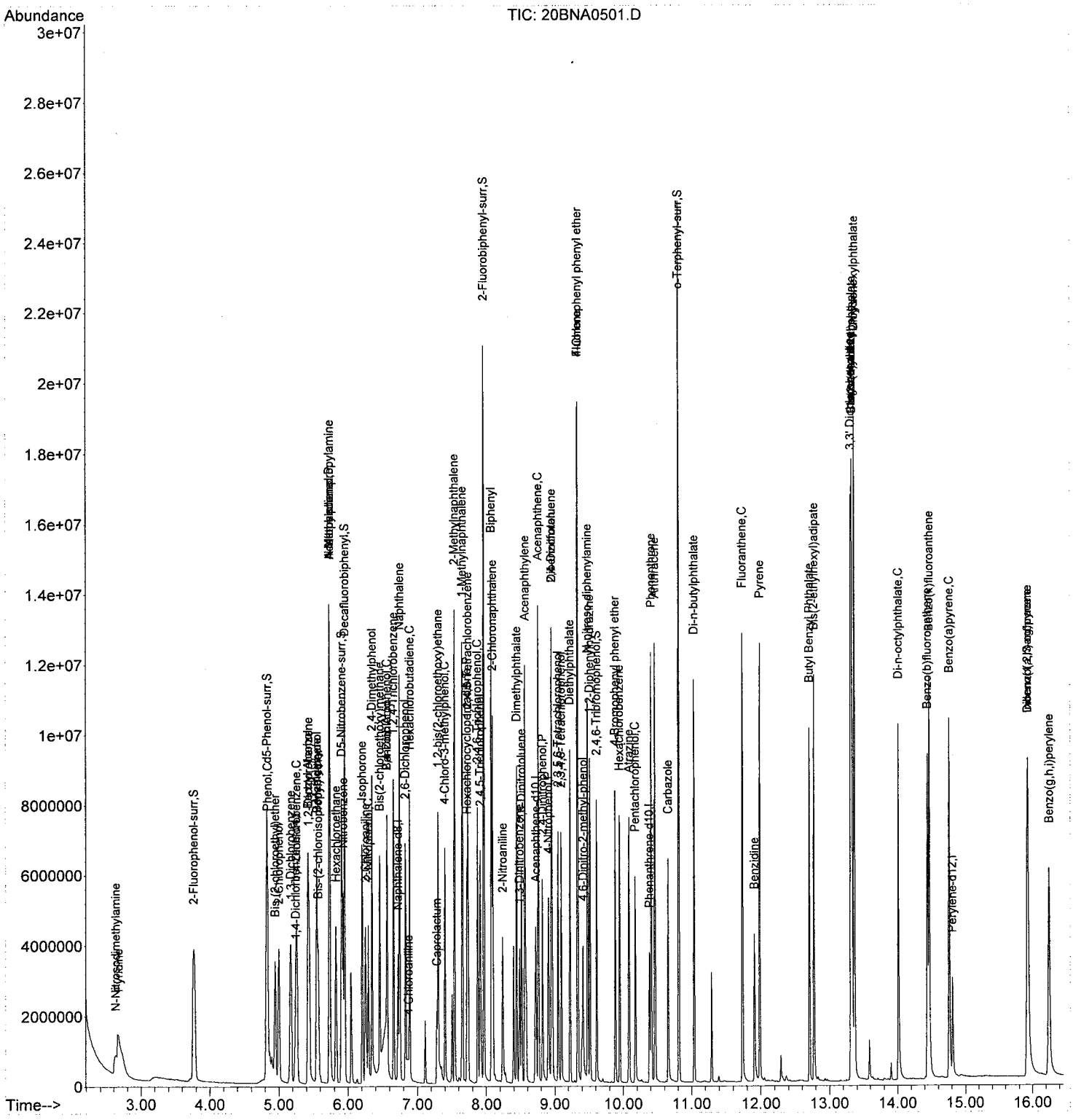
Reason 4: The peak was not integrated during initial quantitation of the sample

Flagged on Quantitation Report: Yes / No
Analyst: L Date: 5/2
Reviewed By: JJS Date: 5/10/12

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:58:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



00885

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:58:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.24	152	355457	5.00	ug/l		0.00
							98.13%
21) Naphthalene-d8	6.72	136	1594316	5.00	ug/l		0.00
							101.47%
42) Acenaphthene-d10	8.73	164	900437	5.00	ug/l		0.00
							100.02%
65) Phenanthrene-d10	10.38	188	1460351m	5.00	ug/l		0.00
							100.59%
79) Chrysene-d12	13.34	240	914550	5.00	ug/l		0.00
							102.89%
90) Perylene-d12	14.82	264	1113571	5.00	ug/l		0.00
							105.86%
System Monitoring Compounds							
4) 2-Fluorophenol-surr	3.76	112	3457487	42.13	ug/l		0.00
5) d5-Phenol-surr	4.83	99	4170107	40.15	ug/l		0.01
19) Decafluorobiphenyl	5.95	334	2720825	36.02	ug/l		0.00
22) D5-Nitrobenzene-surr	5.91	128	1751121	39.62	ug/l		0.00
47) 2-Fluorobiphenyl-surr	7.97	172	6697006	35.55	ug/l		0.00
64) 2,4,6-Tribromophenol	9.62	330	820986	40.17	ug/l		0.00
76) o-Terphenyl-surr	10.82	230	4725904	35.74	ug/l		0.00
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	2.63	74	1128013	21.47	ug/l	#	74
3) Pyridine	2.68	79	2071729m	21.67	ug/l	#	95
6) Phenol	4.84	94	2243175m	20.59	ug/l	#	90
7) Bis (2-chloroethyl)ether	4.95	93	2105535m	21.52	ug/l	#	97
8) 2-Chlorophenol	5.00	128	1987784	21.13	ug/l	#	86
9) 1,3-Dichlorobenzene	5.17	146	2186375	19.90	ug/l	#	89
10) 1,4-Dichlorobenzene	5.26	146	2192567	20.37	ug/l	#	88
11) Benzaldehyde	5.55	105	18840	10.87	ug/l	#	1
12) Benzyl Alcohol	5.42	108	1193222	22.14	ug/l		90
13) 1,2-Dichlorobenzene	5.44	146	2031771	19.78	ug/l	#	88
14) 2-Methylphenol	5.55	108	1786906	21.53	ug/l	#	94
15) Bis-(2-chloroisopropyl)-et	5.57	45	2290045	19.64	ug/l	#	92
16) Acetophenone	5.73	105	2351850	20.03	ug/l		84
17) 4-Methylphenol	5.74	107	1858913	21.13	ug/l		90
18) N-Nitrosodi-n-propylamine	5.74	70	1110411	19.61	ug/l	#	84
20) Hexachloroethane	5.83	117	762973	20.28	ug/l		92
23) Nitrobenzene	5.93	77	1746769	19.66	ug/l	#	90
24) Isophorone	6.20	82	3292804	19.80	ug/l	#	91
25) 2-Chloroaniline	6.26	127	2238793	20.31	ug/l	#	100
26) 2-Nitrophenol	6.30	139	1116301	20.41	ug/l	#	77
27) 2,4-Dimethylphenol	6.35	107	1742629	20.22	ug/l		92
28) Benzoic Acid	6.56	105	2604361	51.67	ug/l		90
29) Bis(2-chloroethoxy)methane	6.46	93	2099227	20.01	ug/l		90
30) 2,4-Dichlorophenol	6.57	162	1509658	20.80	ug/l		96
31) 1,2,4-Trichlorobenzene	6.66	180	1798273	19.16	ug/l		98
32) Naphthalene	6.75	128	5380201	19.28	ug/l		96
33) 4-Chloroaniline	6.87	127	722052	19.90	ug/l	#	32
34) 2,6-Dichlorophenol	6.83	162	1497193	20.72	ug/l		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:58:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.89	225	868840	19.32	ug/l		97
36) Caprolactum	7.28	55	624252m	20.76	ug/l	#	92
37) 1,2-bis(2-chloroethoxy)eth	7.30	63	1567294	19.79	ug/l		93
38) 4-Chloro-3-methylphenol	7.40	107	1466035	21.07	ug/l		87
39) 2-Methylnaphthalene	7.54	142	3740727	19.37	ug/l		95
40) 1-Methylnaphthalene	7.65	142	3599137	19.46	ug/l		90
41) 1,3-Dinitrobenzene	8.49	168	681107	22.82	ug/l		100
43) Hexachlorocyclopentadiene	7.72	237	894363	22.28	ug/l		98
44) 1,2,4,5-Tetrachlorobenzene	7.74	216	1541736	19.26	ug/l		98
45) 2,4,6-Trichlorophenol	7.88	196	1061981	21.85	ug/l		93
46) 2,4,5-Trichlorophenol	7.92	198	1086951	21.97	ug/l	#	94
48) 2-Chloronaphthalene	8.10	162	3232769	19.07	ug/l		98
49) Biphenyl	8.08	154	4166053	19.31	ug/l		96
50) 2-Nitroaniline	8.24	138	1121924	22.64	ug/l	#	79
51) Dimethylphthalate	8.45	163	3645039	19.30	ug/l	#	91
52) 2,6-Dinitrotoluene	8.52	165	898043m	21.10	ug/l	#	86
53) Acenaphthylene	8.57	152	5294341	19.79	ug/l		100
54) Acenaphthene	8.76	154	3233641	19.80	ug/l		96
55) 4-Nitrophenol	8.91	65	975216	44.75	ug/l	#	73
56) 2,4-Dinitrotoluene	8.96	165	1073519	21.80	ug/l	#	75
57) 2,4-Dinitrophenol	8.82	184	983743	58.50	ug/l	#	82
58) Dibenzofuran	8.96	168	4516519	19.02	ug/l	#	98
59) 2,3,5,6-Tetrachlorophenol	9.05	232	887583	22.05	ug/l		95
60) 2,3,4,6-Tetrachlorophenol	9.10	232	888727	21.85	ug/l		99
61) Diethylphthalate	9.23	149	3430873	18.53	ug/l		98
62) 4-Chlorophenyl phenyl ethe	9.34	204	1729557	18.63	ug/l	#	92
63) Fluorene	9.34	166	3665827	19.04	ug/l	#	96
66) 4,6-Dinitro-2-methyl-pheno	9.42	198	625783	28.35	ug/l	#	86
67) 1,2-Diphenylhydrazine	9.52	77	3198108	20.07	ug/l	#	85
68) N-nitroso-diphenylamine	9.48	169	3167022	20.15	ug/l	#	95
69) 4-Bromophenyl phenyl ether	9.88	248	991731	20.26	ug/l		99
70) Hexachlorobenzene	9.95	284	1009707	19.03	ug/l		92
71) Atrazine	10.09	200	893550	21.29	ug/l		100
72) Pentachlorophenol	10.18	266	675435	24.22	ug/l		98
73) Phenanthrene	10.41	178	4871895	19.51	ug/l		98
74) Anthracene	10.47	178	5075262	20.40	ug/l		98
75) Carbazole	10.66	167	2827814	15.11	ug/l	#	96
77) Di-n-butylphthalate	11.04	149	5291474	21.57	ug/l		99
78) Fluoranthene	11.74	202	5153086	20.72	ug/l		96
80) Benzidine	11.91	184	2004488	34.19	ug/l	#	96
81) Pyrene	11.99	202	5183016	19.70	ug/l		99
82) Butyl Benzyl Phthalate	12.71	149	2285534m	22.93	ug/l	#	92
83) Bis(2-ethylhexyl)adipate	12.78	129	2072458	23.78	ug/l	#	85
84) Bis(2-ethylhexyl)phthalate	13.33	149	2875277	22.38	ug/l		100
85) Dicyclohexylphthalate	13.37	149	3690394	20.75	ug/l	#	84
86) 3,3' Dichlorobenzidine	13.31	252	2506998	38.43	ug/l		96
87) Benzo(a)anthracene	13.32	228	4193385	19.49	ug/l		99
88) Chrysene	13.37	228	4208256	18.72	ug/l	#	92
89) Di-n-octylphthalate	14.01	149	5057860	25.01	ug/l	#	100
91) Benzo(b)fluoroanthene	14.44	252	4514680	21.01	ug/l		100
92) Benzo(k)fluoroanthene	14.47	252	4329706	18.19	ug/l		99
93) Benzo(a)pyrene	14.76	252	4268274	20.37	ug/l		99

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:58:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration

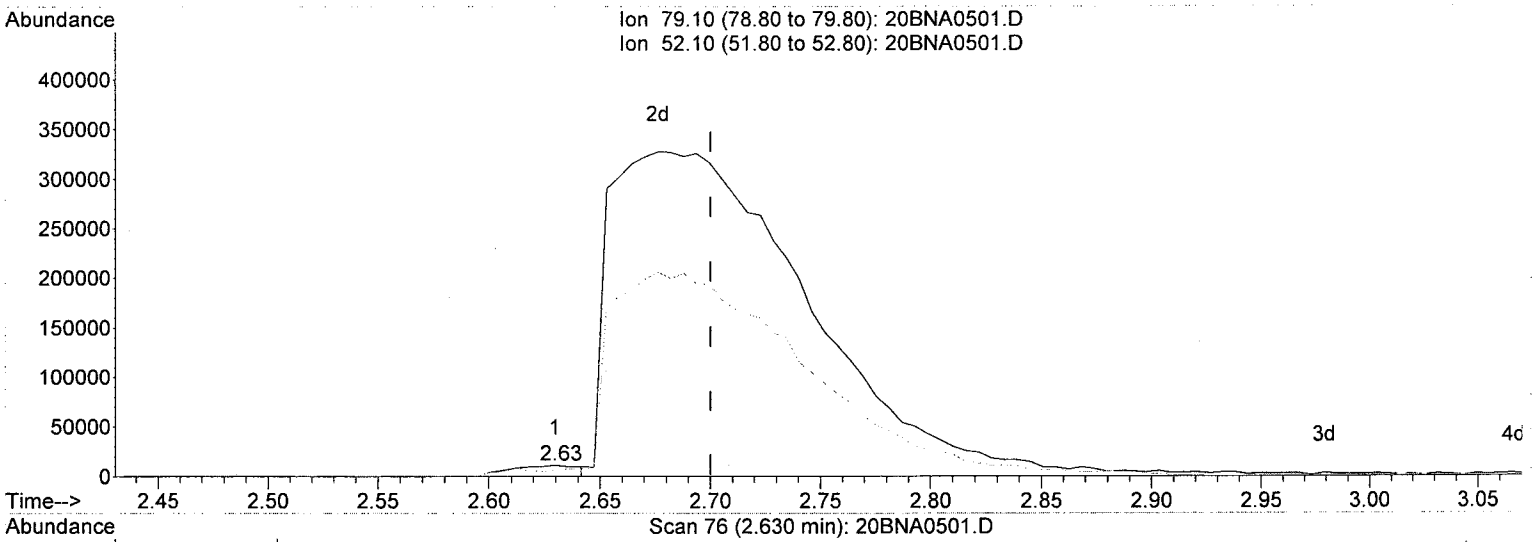
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.92	276	4471437	21.40	ug/l	96
95) Dibenzo(a,h)anthracene	15.93	278	3667653	21.74	ug/l	96
96) Benzo(g,h,i)perylene	16.25	276	3995622	20.50	ug/l	99

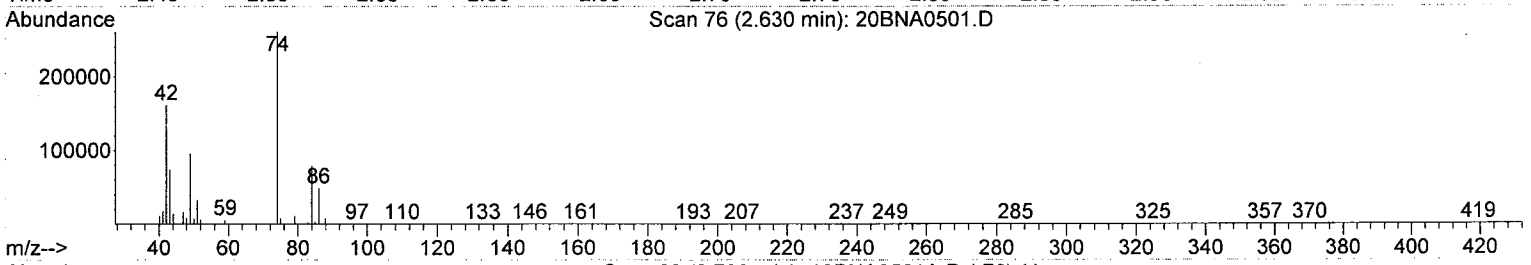
(#) = qualifier out of range (m) = manual integration (+) = signals summed

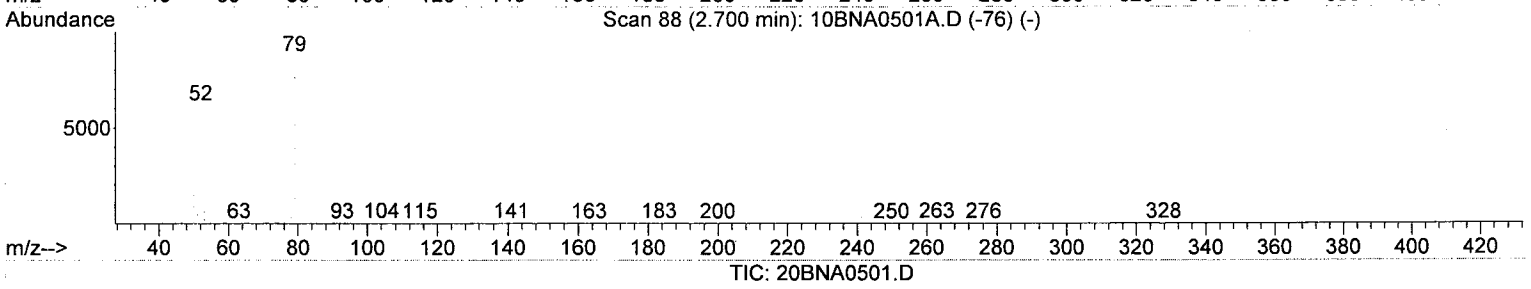
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration







TIC: 20BNA0501.D

(3) Pyridine

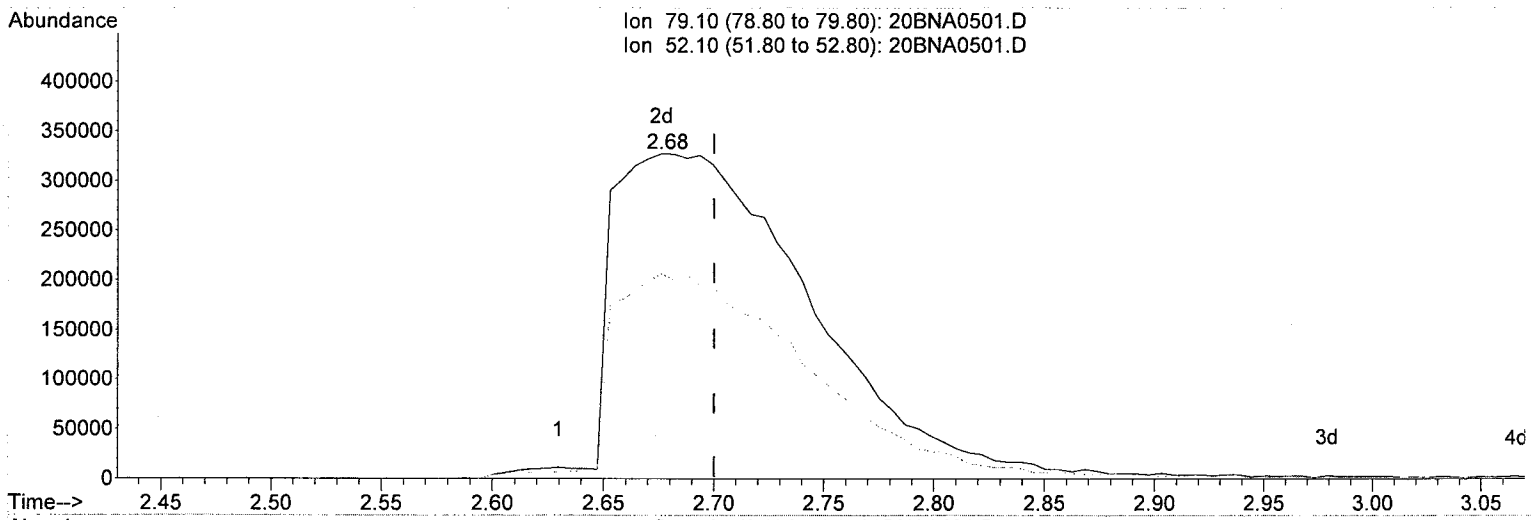
2.63min (-0.071) 0.25ug/l

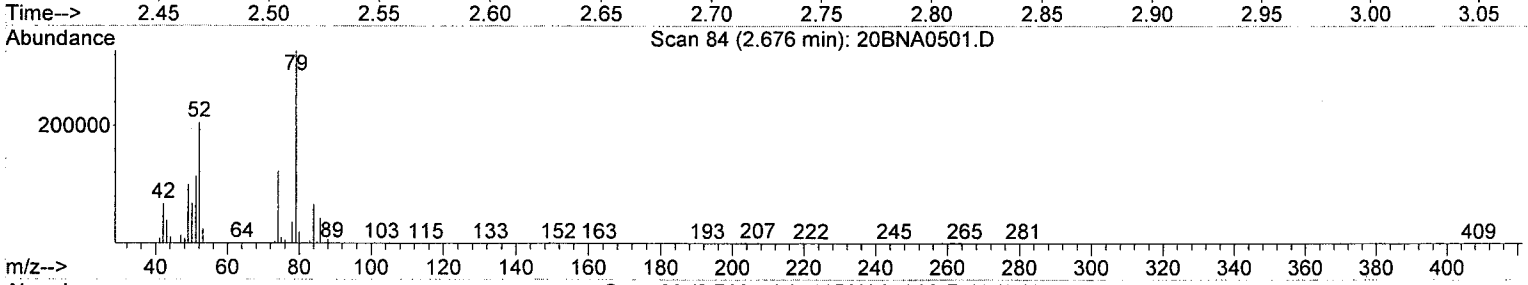
response 24292

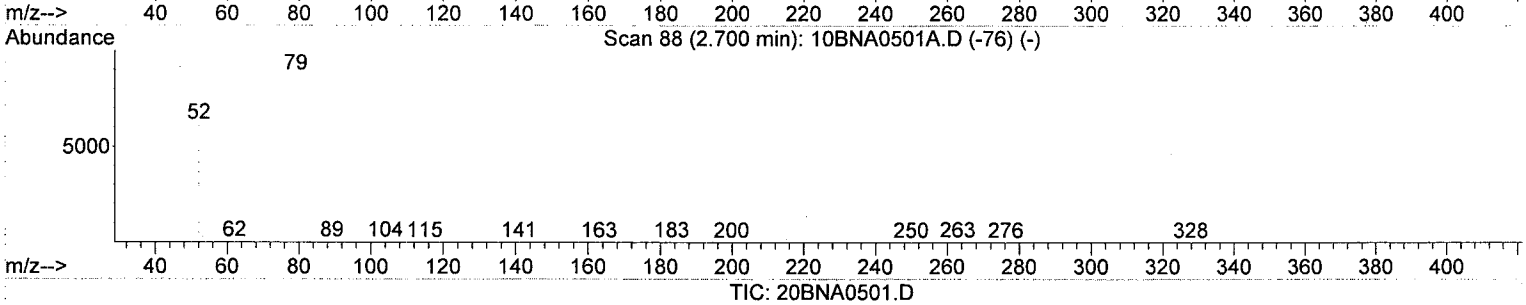
Ion	Exp%	Act%
79.10	100	100
52.10	41.00	37.97
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration







(3) Pyridine

2.68min (-0.024) 21.67ug/l m

response 2071729

Ion	Exp%	Act%
79.10	100	100
52.10	41.00	0.45#
0.00	0.00	0.00
0.00	0.00	0.00

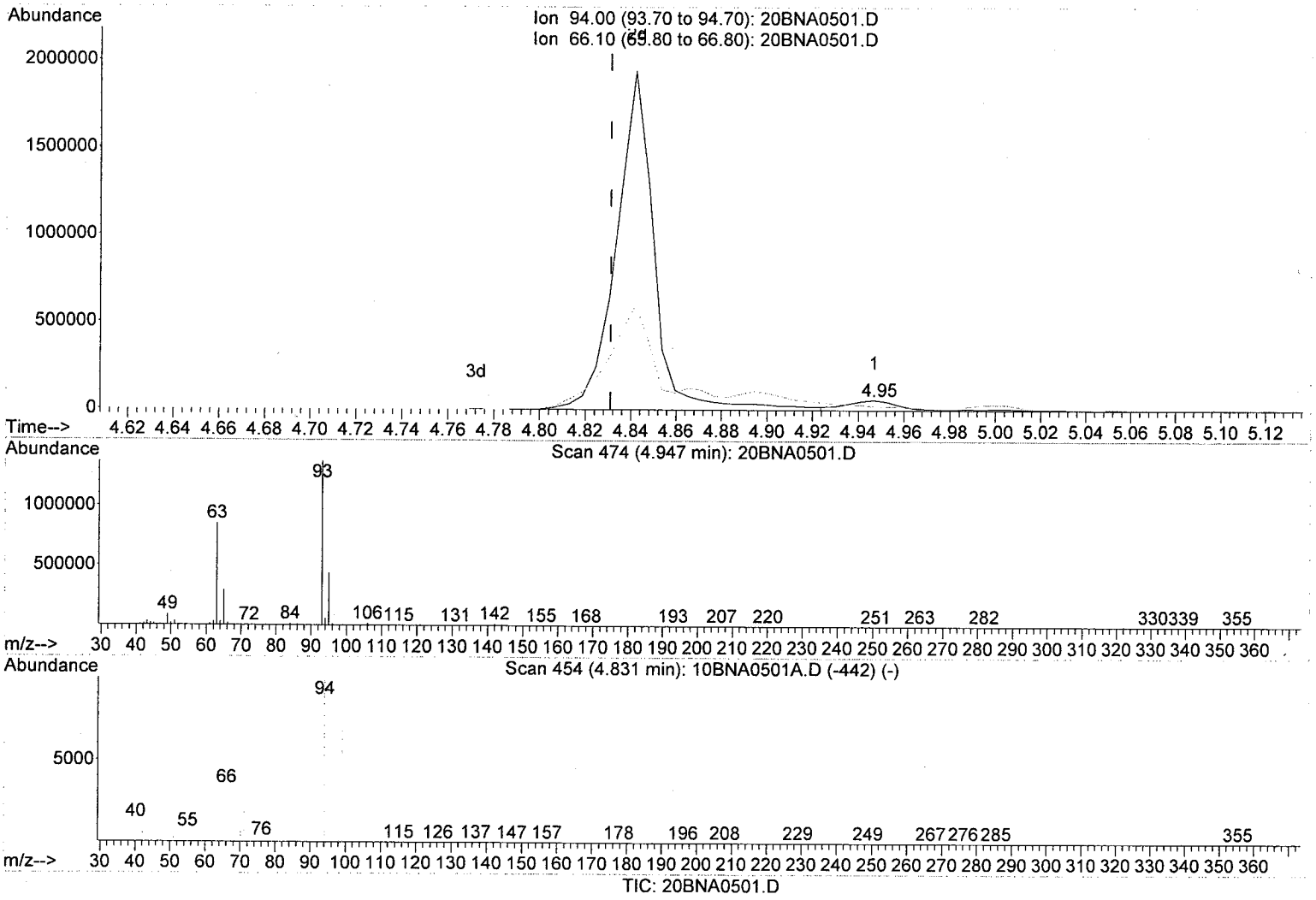
Manual Integration Explanation

Reason 1: Incorrect peak integrated by the software.

Flagged on Quantitation Report: Yes / No
Analyst: [signature] Date: 5/1
Reviewed By: [signature] Date: 5/10/12

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



(6) Phenol (C)

4.95min (+0.116) 1.06ug/l

response 115854

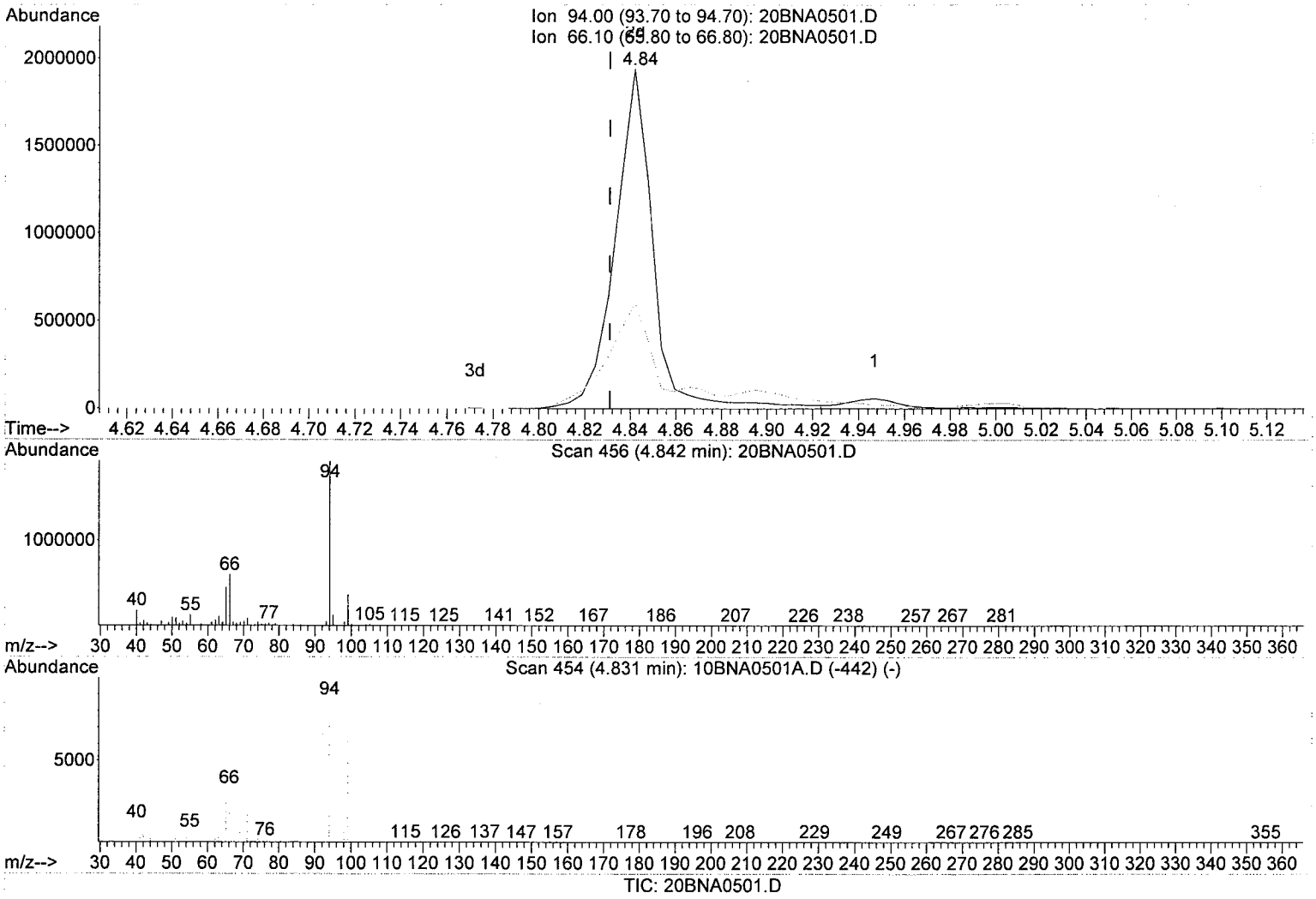
Ion	Exp%	Act%
94.00	100	100
66.10	73.10	64.67
0.00	0.00	0.00
0.00	0.00	0.00

5/7/12
Jus 5/10/12

00891

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



TIC: 20BNA0501.D

(6) Phenol (C)

4.84min (+0.011) 20.59ug/l m

response 2243175

Ion	Exp%	Act%
94.00	100	100
66.10	73.10	3.34#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 1: Incorrect peak integrated by the software.

Flagged on Quantitation Report: Yes / No

Analyst: _____ Date: 5/1

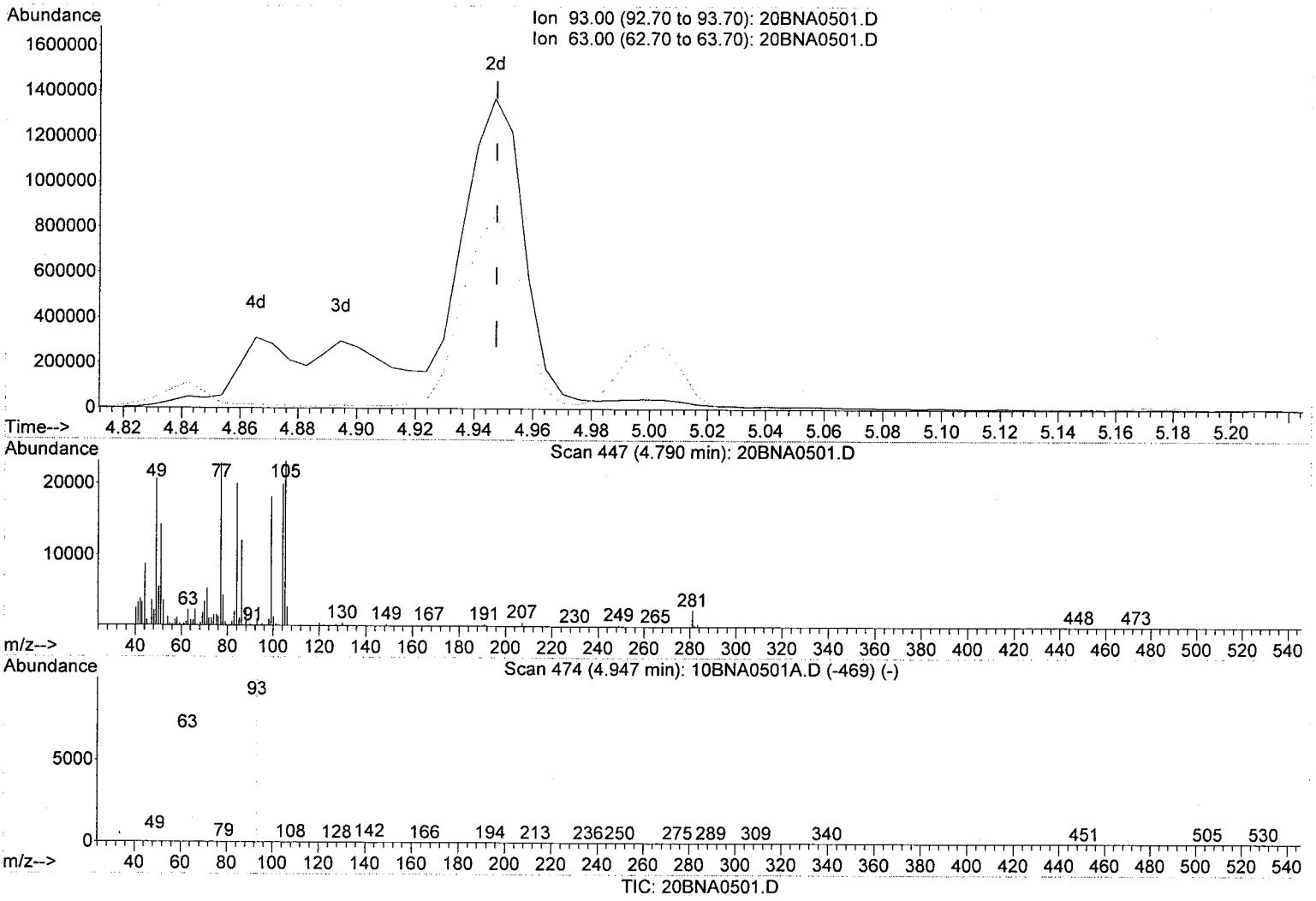
Reviewed By: _____ Date: 5/10/12

00892

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



TIC: 20BNA0501.D

(7) Bis (2-chloroethyl)ether

4.79min (-0.158) 0.01ug/l

response 1303

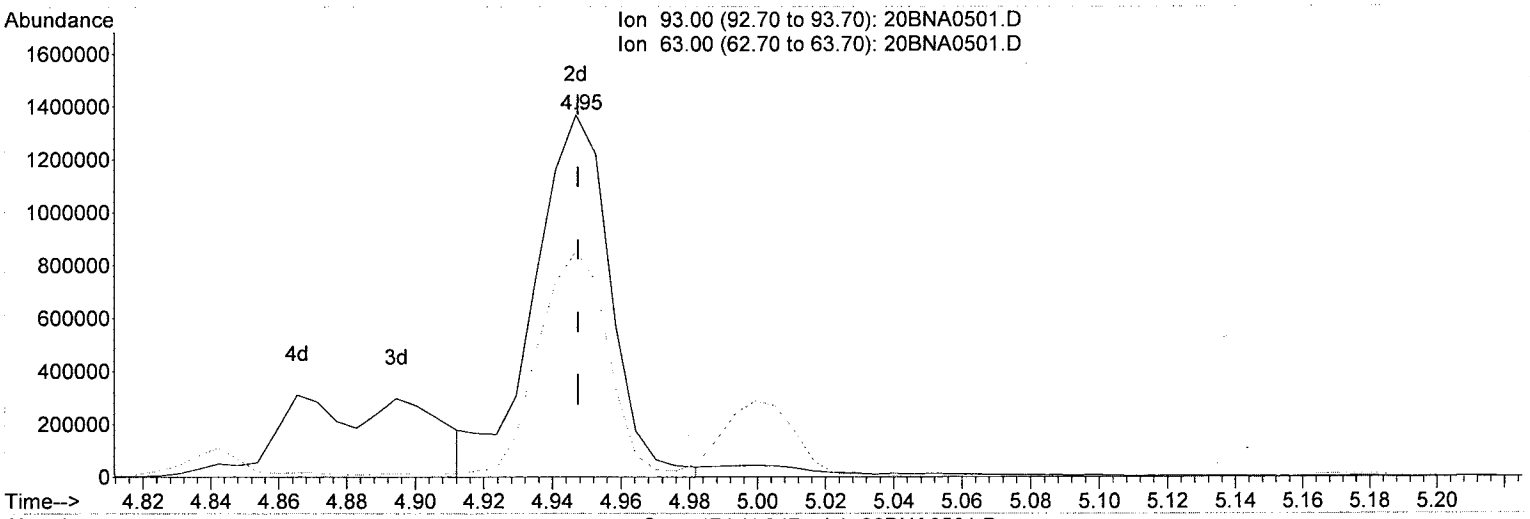
Ion	Exp%	Act%
93.00	100	100
63.00	85.50	88.49
0.00	0.00	0.00
0.00	0.00	0.00

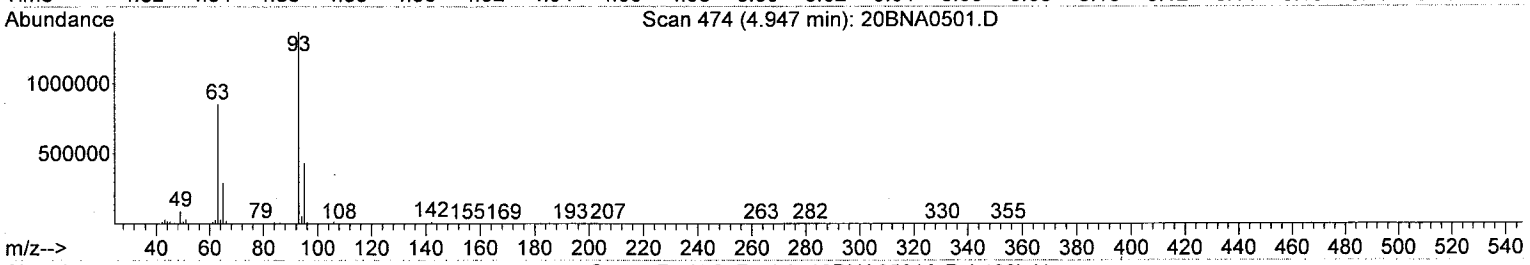
JWS 11/01/12

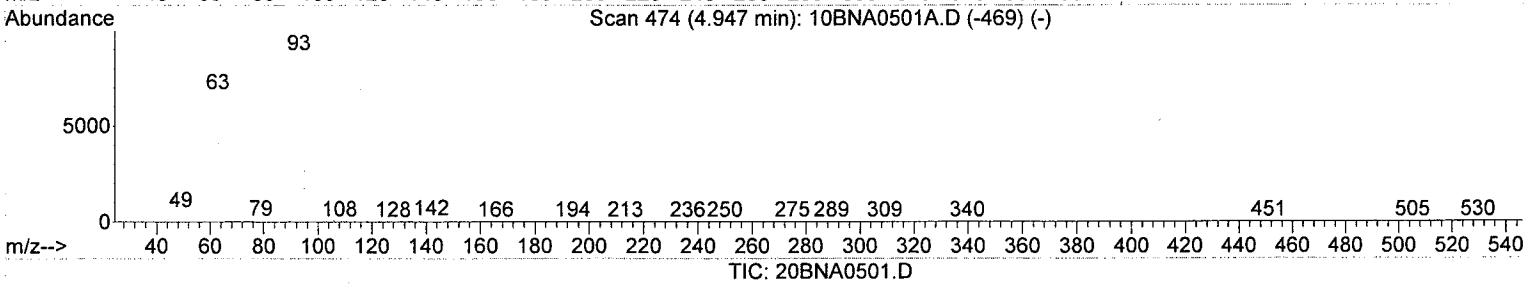
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration







TIC: 20BNA0501.D

(7) Bis (2-chloroethyl)ether

4.95min (-0.001) 21.52ug/l m

response 2105535

Ion	Exp%	Act%
93.00	100	100
63.00	85.50	0.05#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

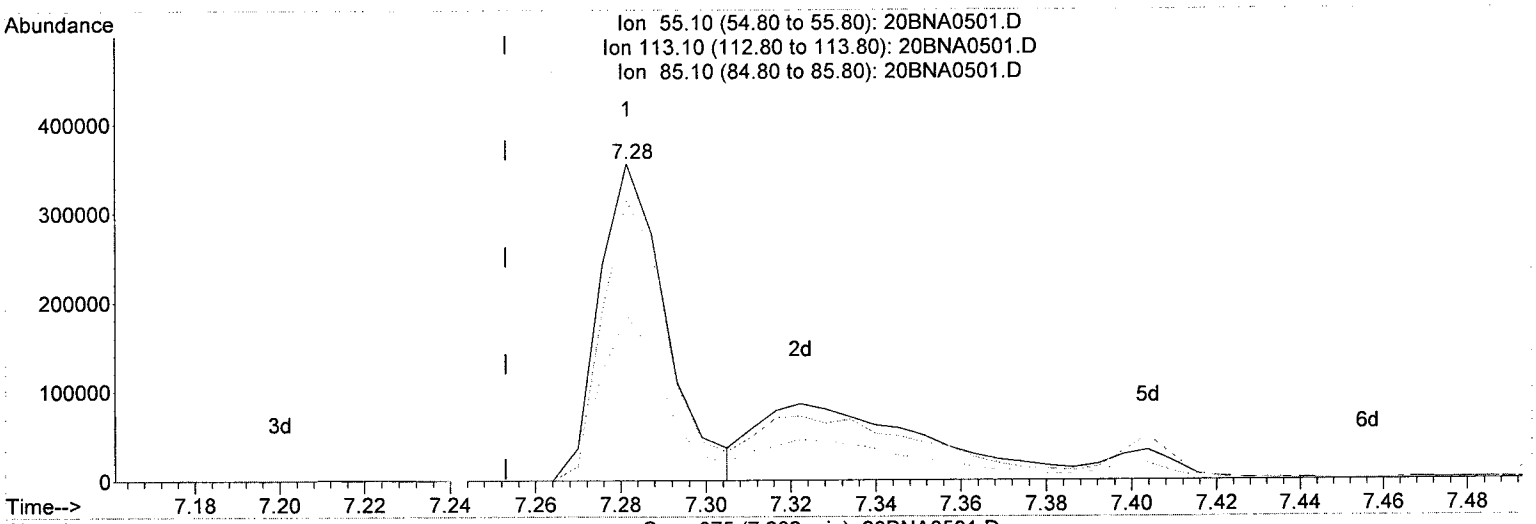
Flagged on Quantitation Report: Yes / No
Analyst: _____ Date: 5/1
Reviewed By: _____ Date: 5/10/12

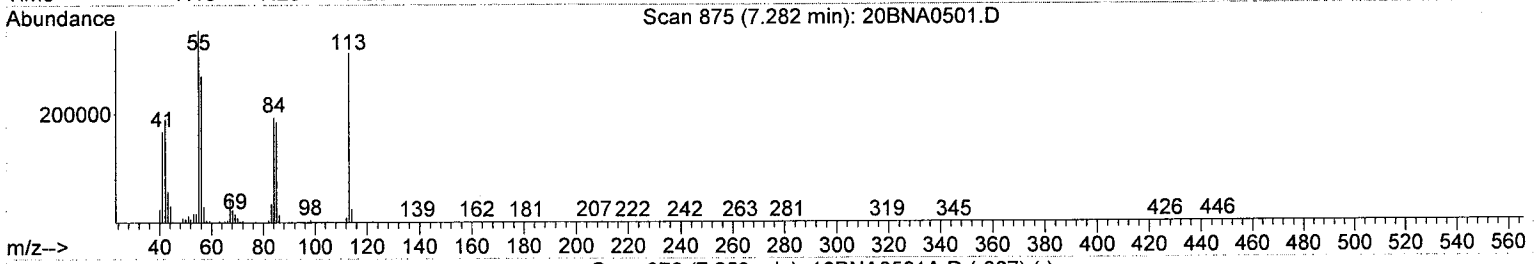
00894

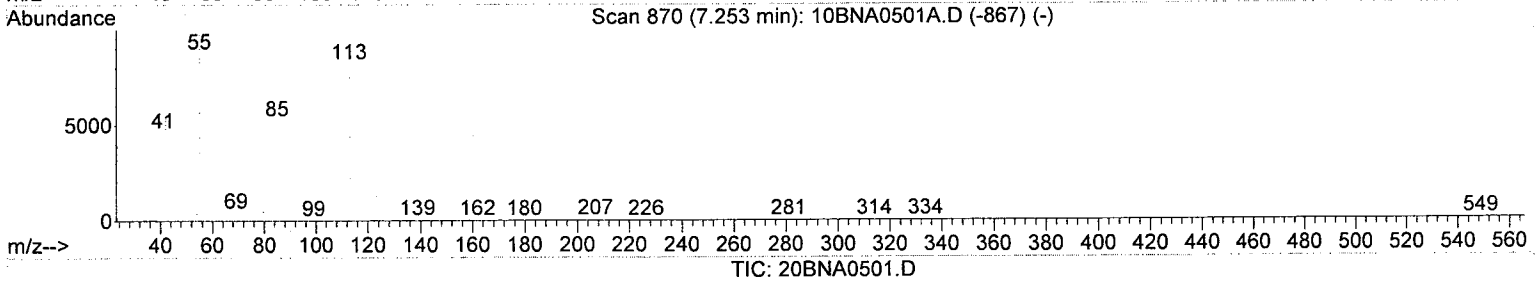
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration







TIC: 20BNA0501.D

(36) Caprolactum

7.28min (+0.029) 12.85ug/l

response 386461

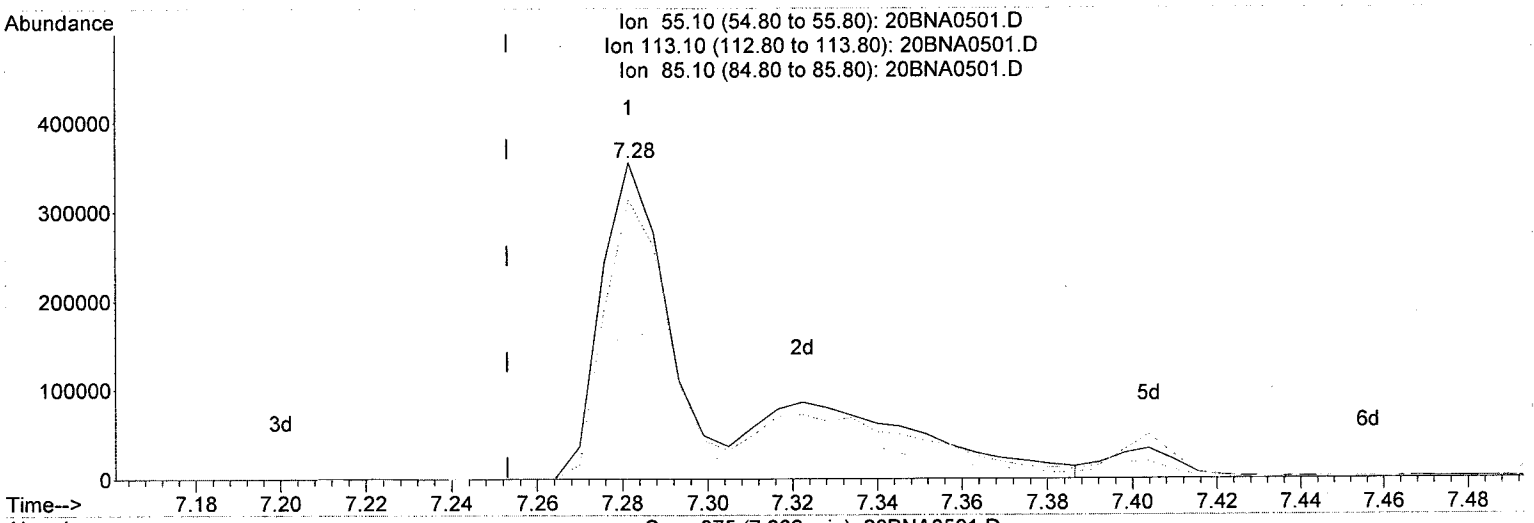
Ion	Exp%	Act%
55.10	100	100
113.10	76.10	87.34
85.10	52.80	52.10
0.00	0.00	0.00

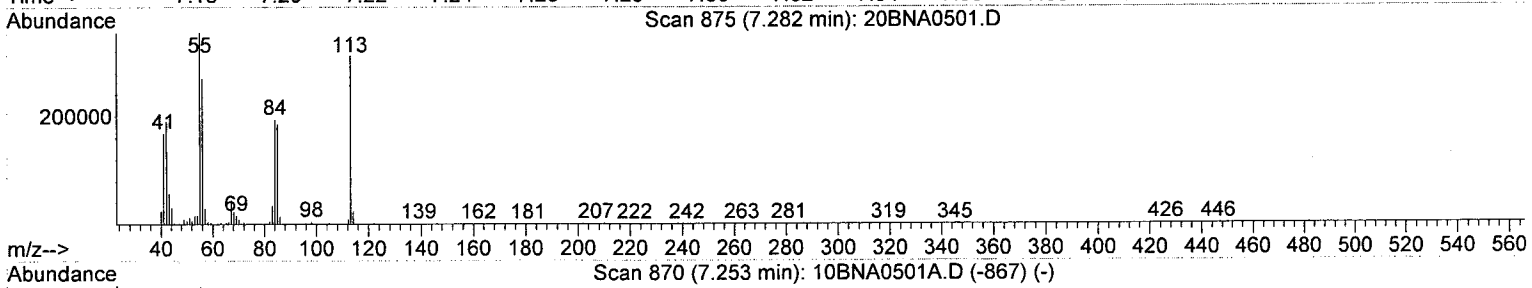
1,2,4
Substitute

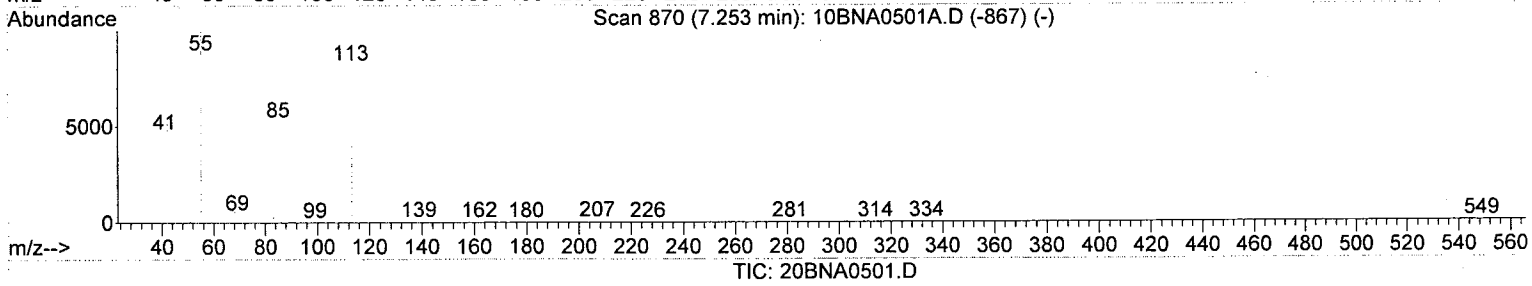
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration







TIC: 20BNA0501.D

(36) Caprolactum

7.28min (+0.029) 20.76ug/l m

response 624252

Ion	Exp%	Act%
55.10	100	100
113.10	76.10	54.07#
85.10	52.80	32.25#
0.00	0.00	0.00

Manual Integration Explanation

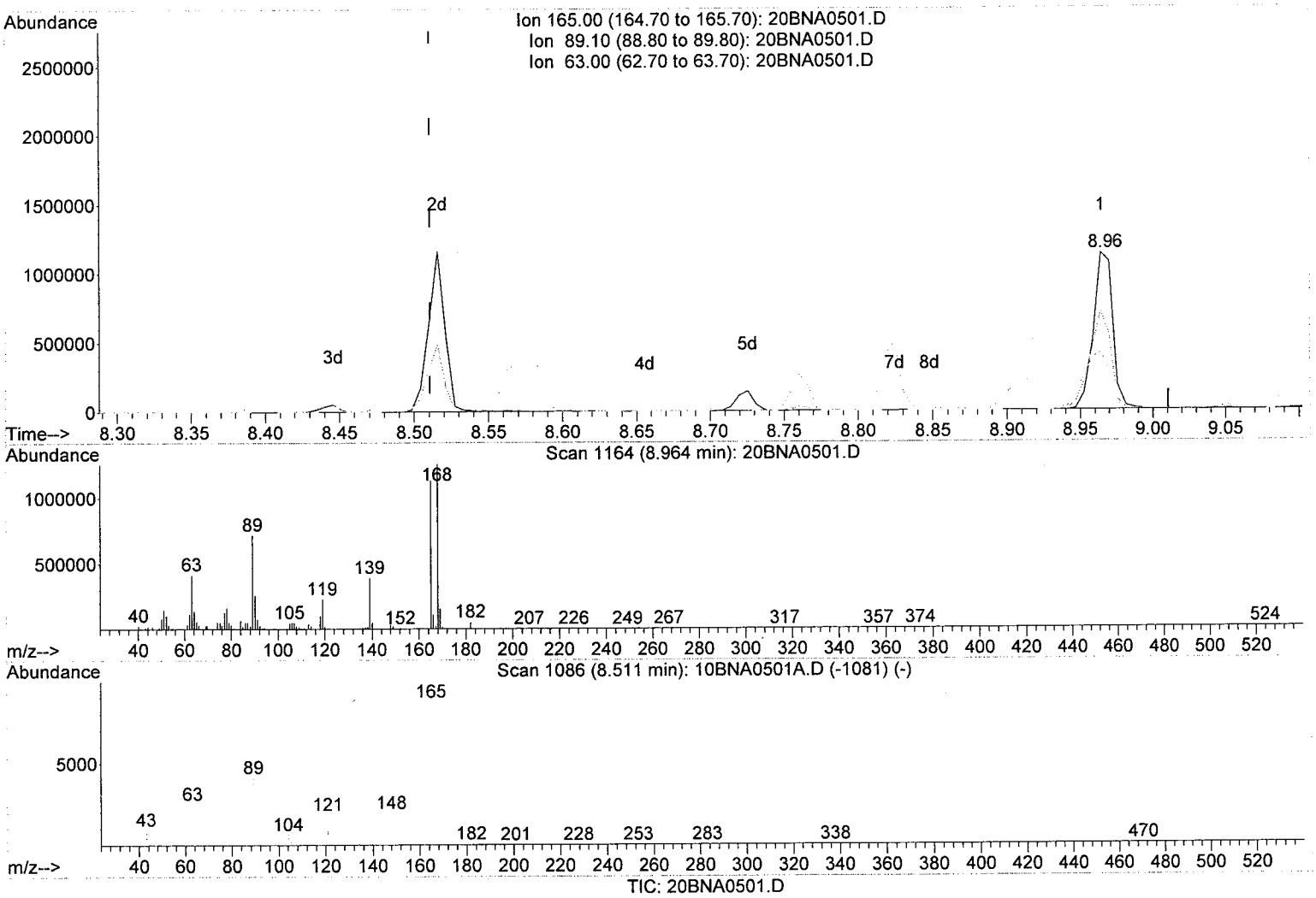
Reason 3: Incorrect baseline drawn by the software.

Flagged on Quantitation Report: Yes / No
Analyst: L Date: 5/4
Reviewed By: JV Date: 5/10/12

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



(52) 2,6-Dinitrotoluene

8.96min (+0.454) 25.06ug/l

response 1066512

Ion	Exp%	Act%
165.00	100	100
89.10	59.10	67.96
63.00	58.70	47.23
0.00	0.00	0.00

c 5 J/-

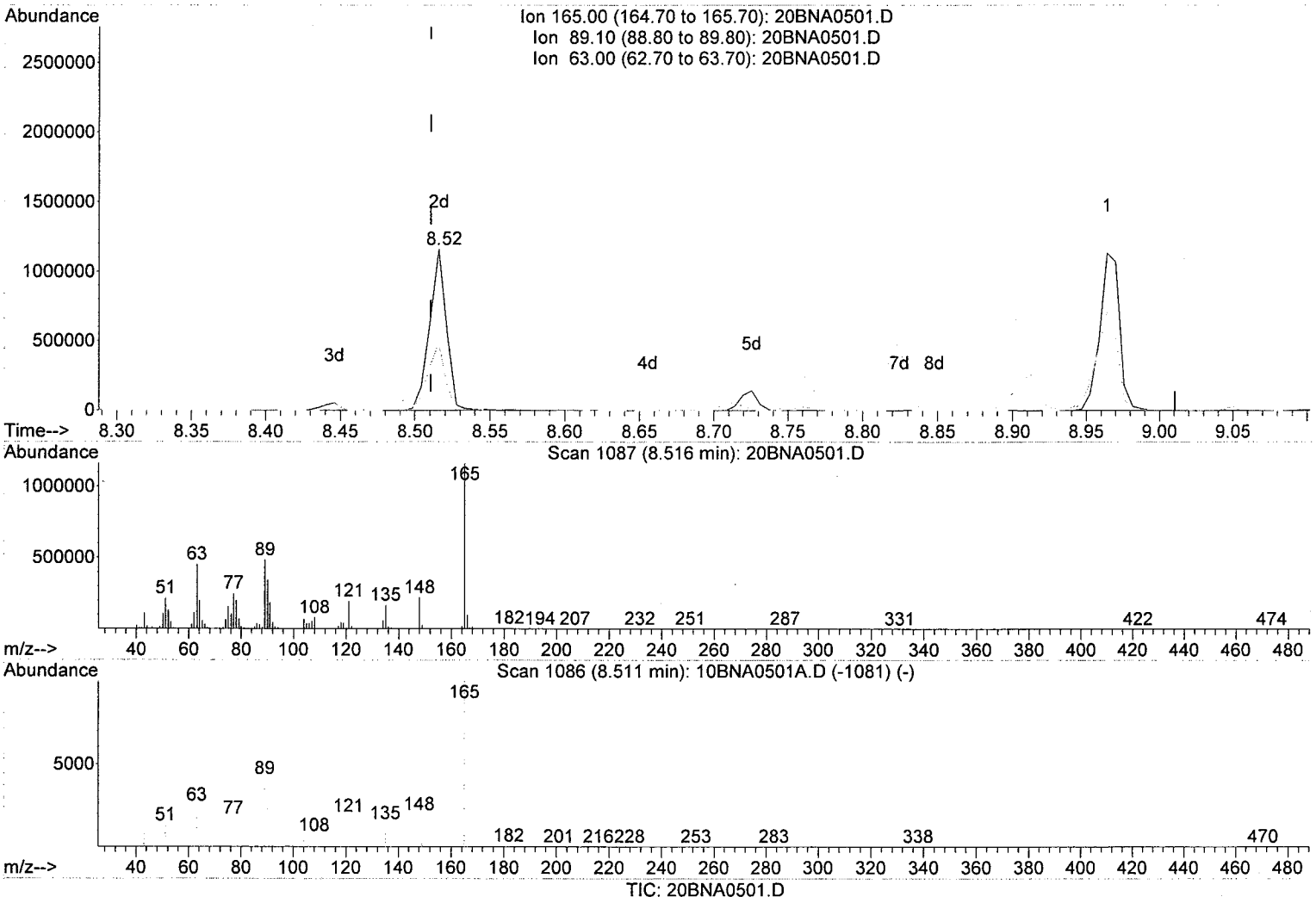
JWB 5/10/12

00897

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



TIC: 20BNA0501.D

(52) 2,6-Dinitrotoluene

8.52min (+0.005) 21.10ug/l m

response 898043

Ion	Exp%	Act%
165.00	100	100
89.10	59.10	80.70#
63.00	58.70	56.09
0.00	0.00	0.00

Manual Integration Explanation

Reason 1: Incorrect peak integrated by the software.

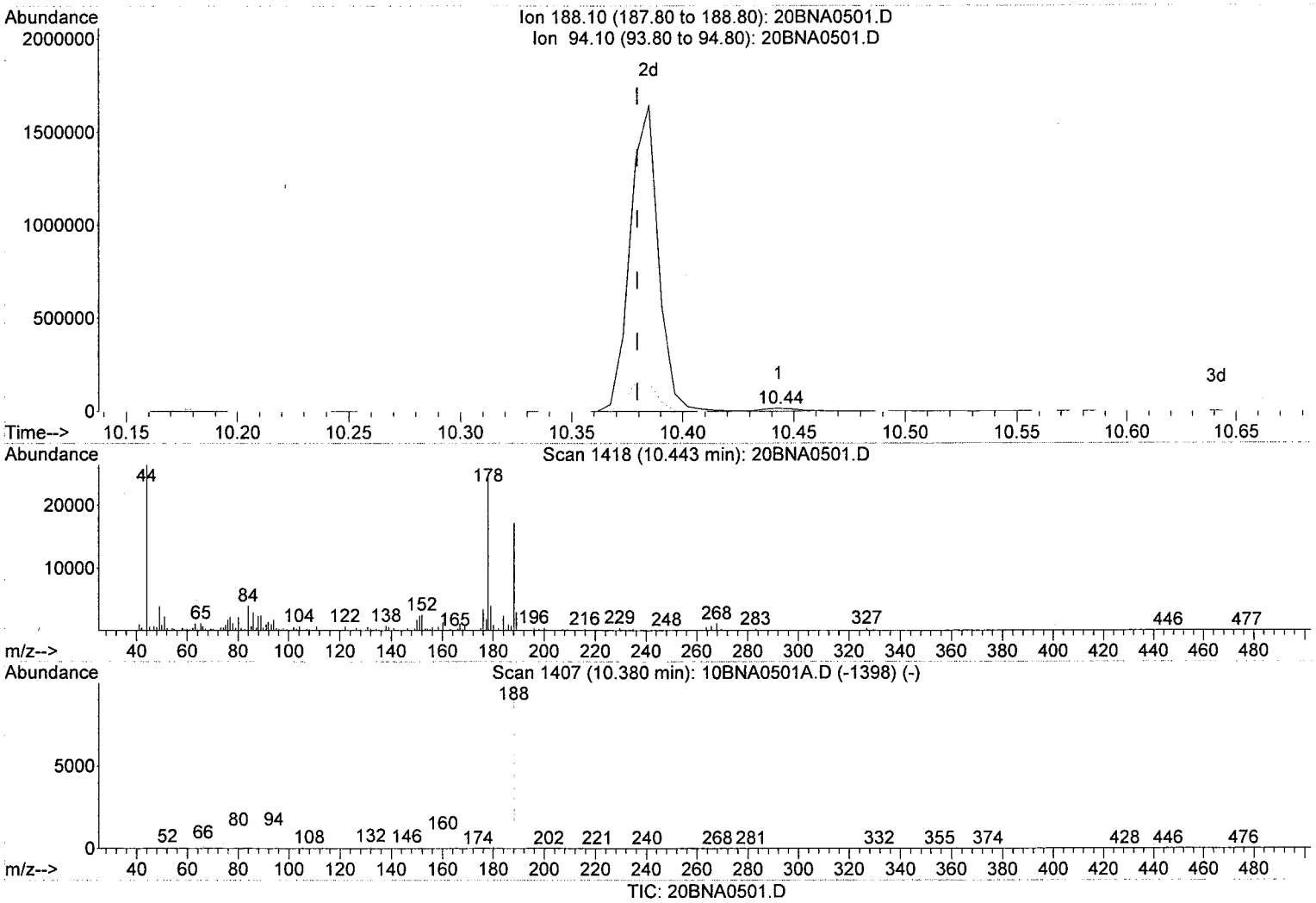
Flagged on Quantitation Report: Yes / No
Analyst: _____ Date: 5/1
Reviewed By: _____ Date: 5/10/12

00898

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



(65) Phenanthrene-d10 (I)

10.44min (+0.063) 5.00ug/l

response 18983

Ion	Exp%	Act%
188.10	100	100
94.10	13.20	12.62
0.00	0.00	0.00
0.00	0.00	0.00

65)

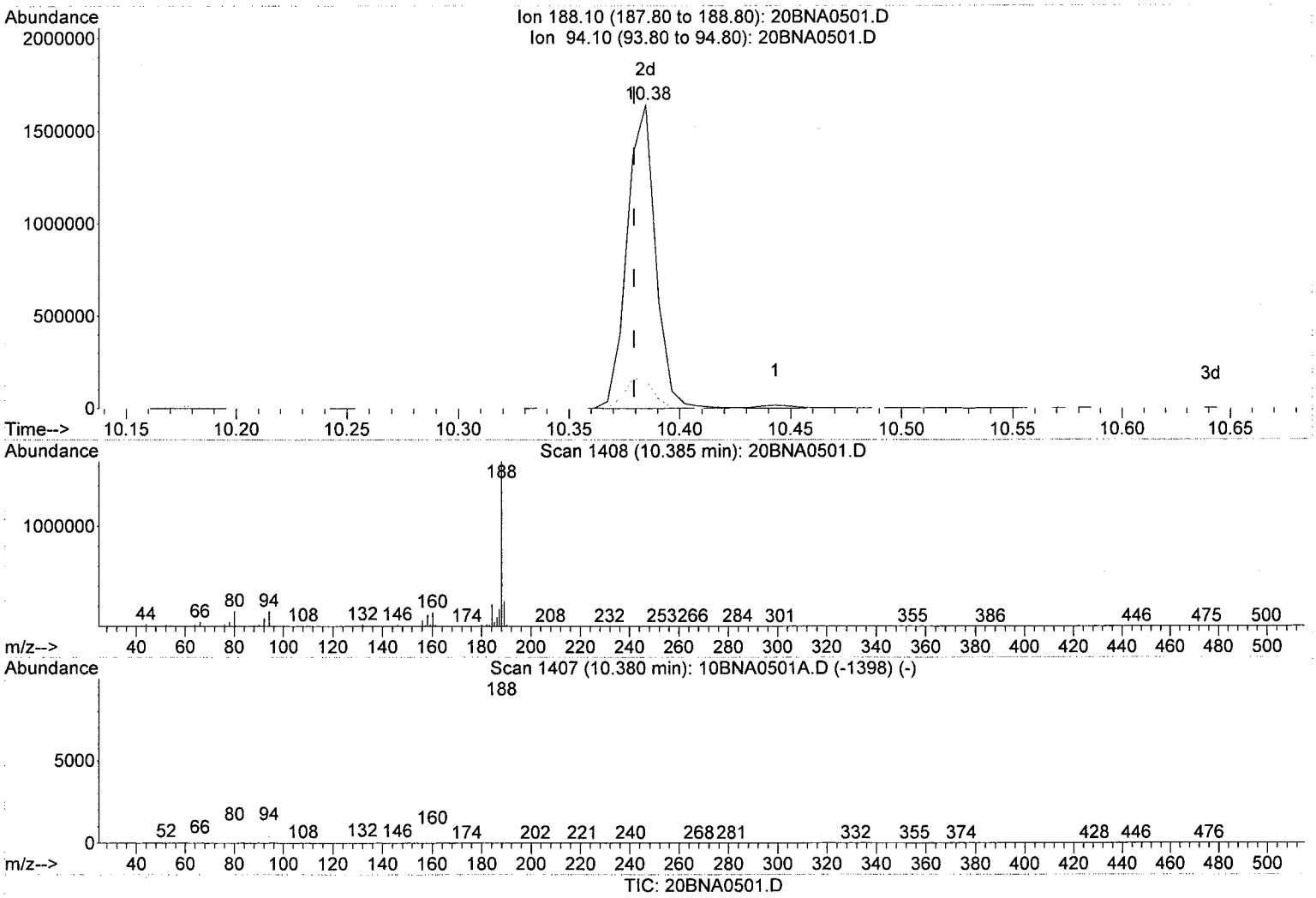
Jub 5/10/12

00899

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



(65) Phenanthrene-d10 (I)

10.38min (+0.005) 5.00ug/l m

response 1460351

Ion	Exp%	Act%
188.10	100	100
94.10	13.20	0.16#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

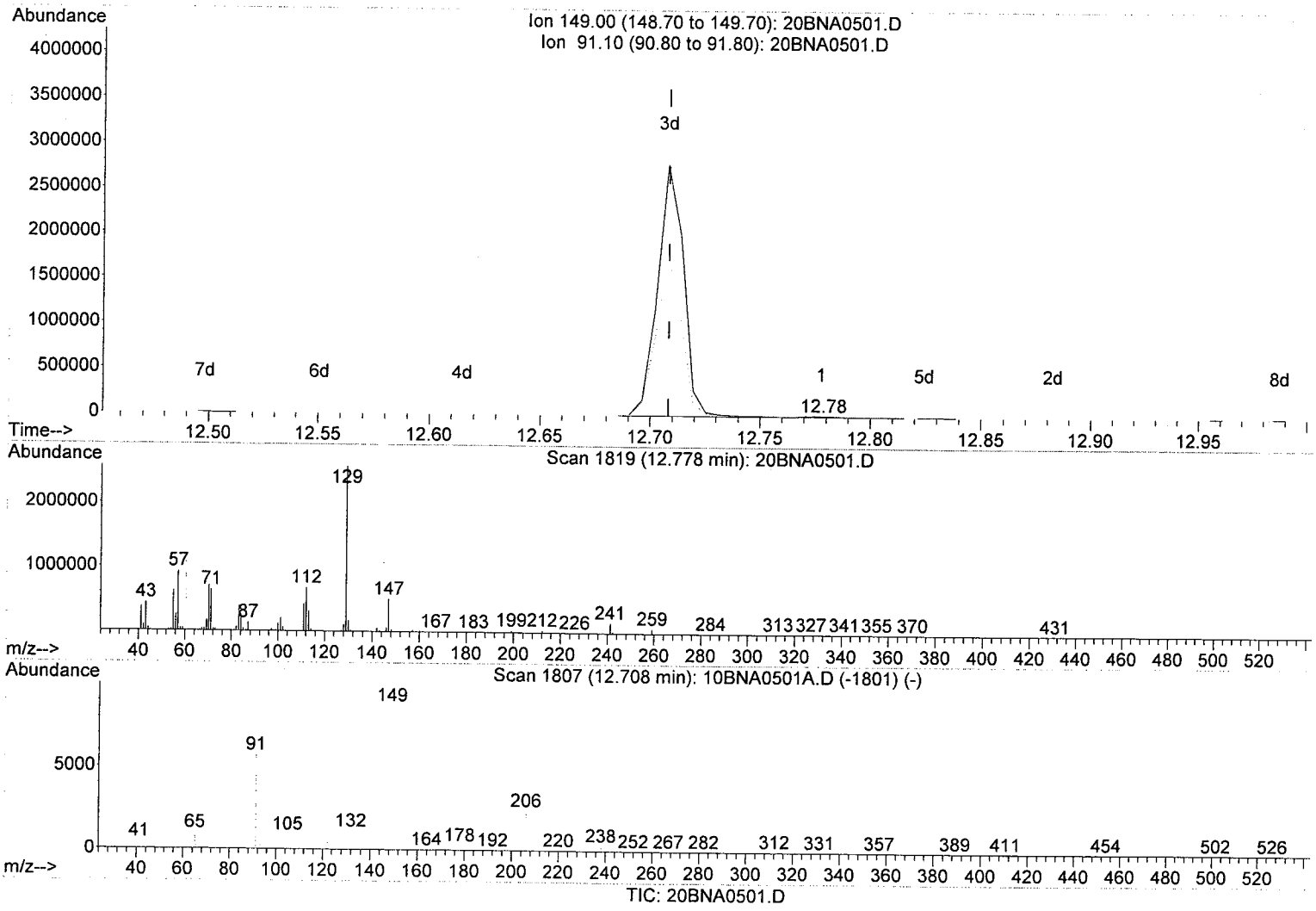
Flagged on Quantitation Report: Yes / No
Analyst: C Date: 5/10
Reviewed By: [illegible] Date: 5/10/12

00900

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



(82) Butyl Benzyl Phthalate

12.78min (+0.069) 0.12ug/l

response 11854

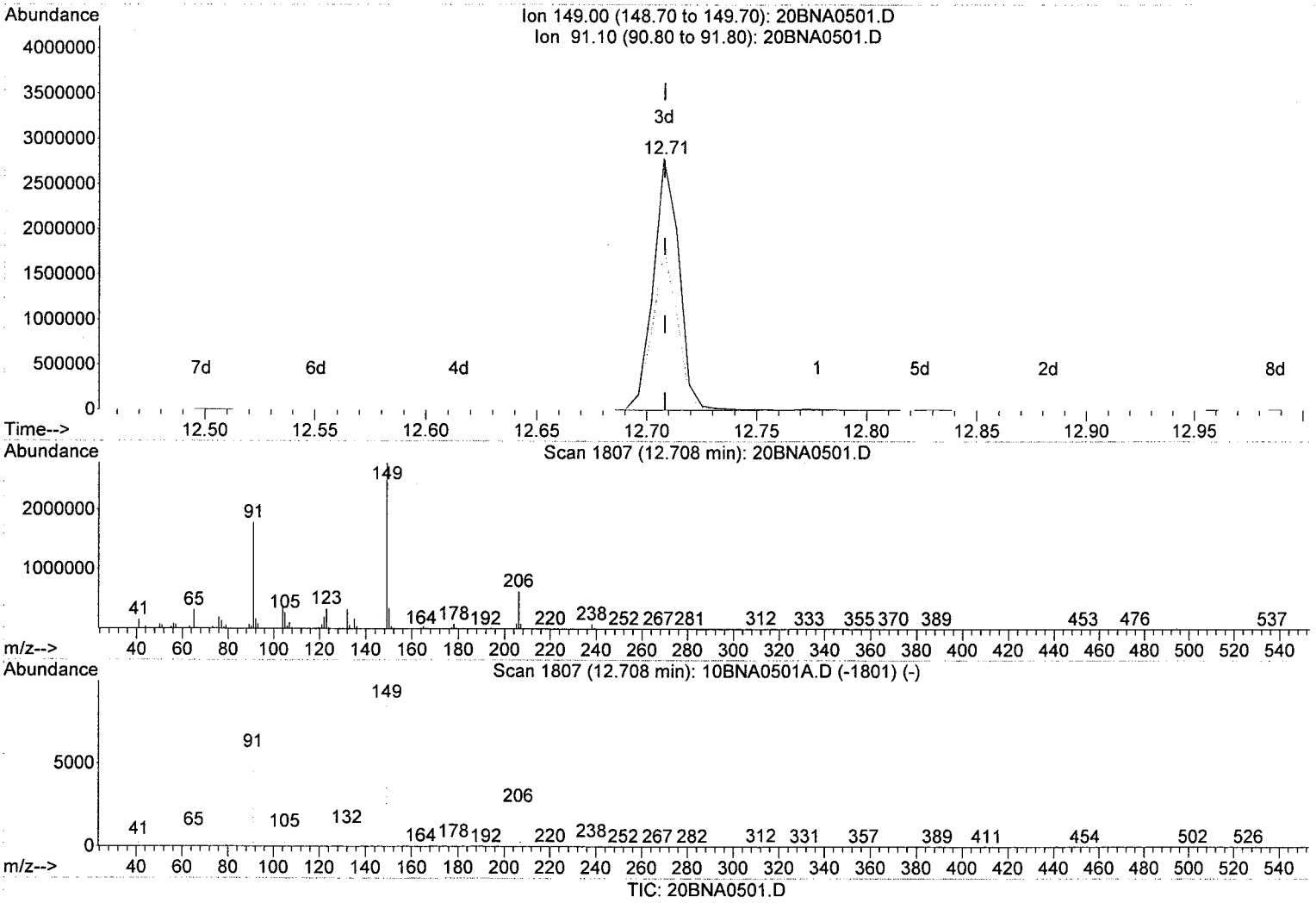
Ion	Exp%	Act%
149.00	100	100
91.10	80.80	73.44
0.00	0.00	0.00
0.00	0.00	0.00

00901

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 20BNA0501.D
Acq On : 1 May 2012 14:20
Operator : DMC
Sample : 20BNA0501
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 01 14:56:11 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:56:02 2012
Response via : Initial Calibration



TIC: 20BNA0501.D

(82) Butyl Benzyl Phthalate

12.71min (-0.001) 22.93ug/l m

response 2285534

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	0.38#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

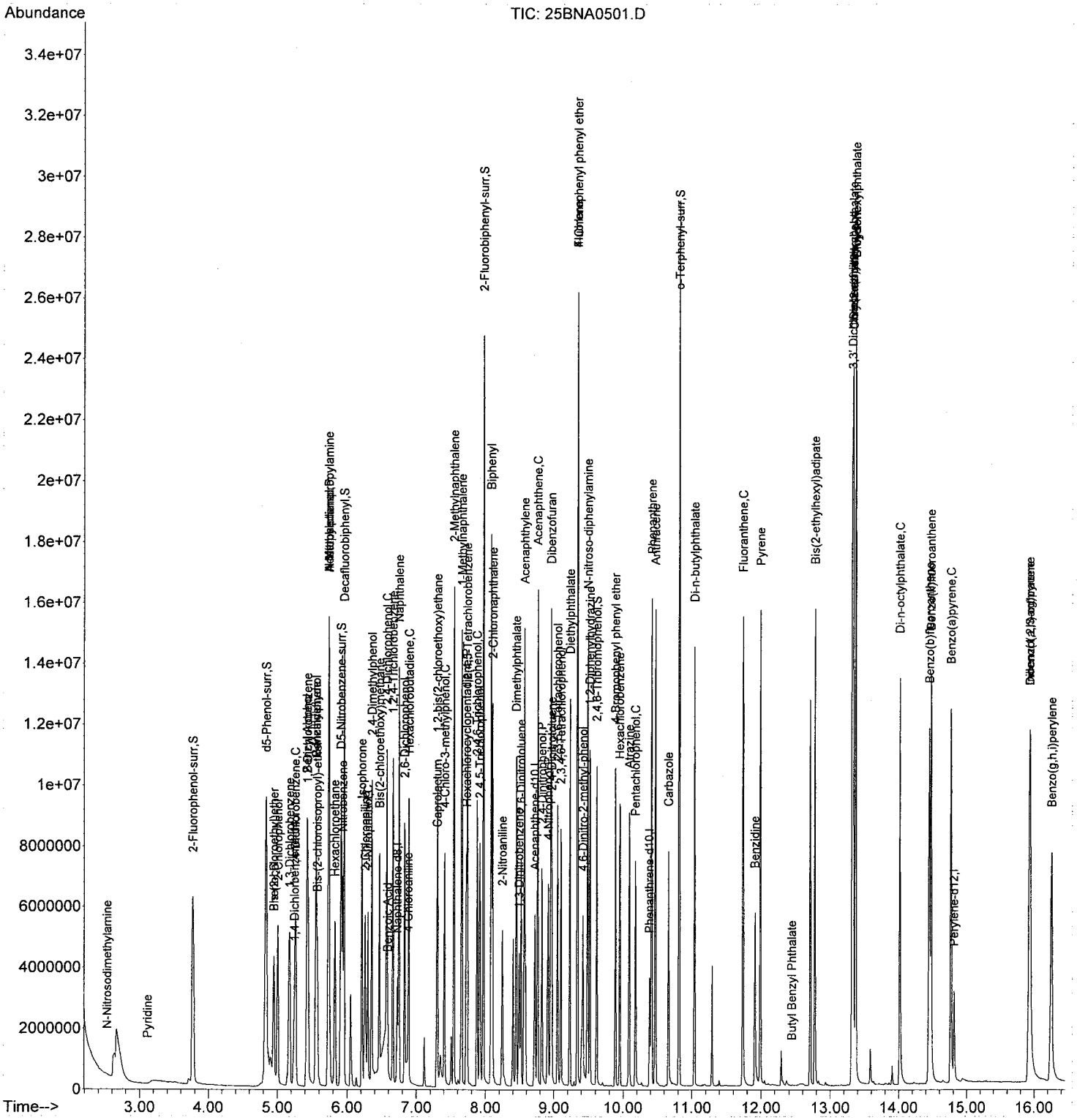
Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No
Analyst: _____ Date: 5/14
Reviewed By: JWB Date: 5/16/12

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:26:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration



00903

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:26:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.24	152	351791	5.00	ug/l		0.00 97.12%
21) Naphthalene-d8	6.72	136	1555250	5.00	ug/l		0.00 98.98%
42) Acenaphthene-d10	8.72	164	895849	5.00	ug/l		0.00 99.51%
65) Phenanthrene-d10	10.38	188	1531422	5.00	ug/l		0.00 105.48%
79) Chrysene-d12	13.34	240	928407	5.00	ug/l		0.00 104.45%
90) Perylene-d12	14.82	264	1177346	5.00	ug/l		0.00 111.93%
System Monitoring Compounds							
4) 2-Fluorophenol-surr	3.77	112	4255205	51.72	ug/l		0.01
5) d5-Phenol-surr	4.83	99	5320990	51.18	ug/l		0.01
19) Decafluorobiphenyl	5.96	334	3434687	45.21	ug/l		0.00
22) D5-Nitrobenzene-surr	5.91	128	2264256	52.28	ug/l		0.00
47) 2-Fluorobiphenyl-surr	7.97	172	8353272	43.27	ug/l		0.00
64) 2,4,6-Tribromophenol	9.62	330	1096772	53.46	ug/l		0.00
76) o-Terphenyl-surr	10.82	230	6158833	43.61	ug/l		0.00
Target Compounds							Qvalue
2) N-Nitrosodimethylamine	2.53	74	~~34819~~ 1418250 m 2604	~~0.65~~	ug/l		94
3) Pyridine	3.11	79	~~4153~~ m	~~0.04~~	ug/l		99 2585802/26.63
6) Phenol	4.95	94	~~143630~~ m	~~1.30~~	ug/l		97 2812969/24.93
7) Bis (2-chloroethyl)ether	4.95	93	2705910	27.06	ug/l	#	69
8) 2-Chlorophenol	5.01	128	2501184	26.08	ug/l	#	88
9) 1,3-Dichlorobenzene	5.18	146	2741625	24.66	ug/l	#	88
10) 1,4-Dichlorobenzene	5.26	146	2742793	25.10	ug/l	#	88
11) Benzaldehyde	5.55	105	17911	19.66	ug/l	#	1
12) Benzyl Alcohol	5.43	108	1502248	27.29	ug/l		90
13) 1,2-Dichlorobenzene	5.44	146	2548482	24.48	ug/l	#	88
14) 2-Methylphenol	5.55	108	2262396	26.67	ug/l	#	95
15) Bis-(2-chloroisopropyl)-et	5.57	45	2874361	24.20	ug/l	#	92
16) Acetophenone	5.73	105	2976354	25.02	ug/l		84
17) 4-Methylphenol	5.74	107	2345438	26.06	ug/l		90
18) N-Nitrosodi-n-propylamine	5.74	70	1441874	24.79	ug/l	#	84
20) Hexachloroethane	5.82	117	957991	24.94	ug/l		92
23) Nitrobenzene	5.93	77	2225915	25.28	ug/l	#	90
24) Isophorone	6.21	82	4253324	25.43	ug/l	#	91
25) 2-Chloroaniline	6.26	127	3000245	26.91	ug/l	#	100
26) 2-Nitrophenol	6.30	139	1465847	27.35	ug/l	#	77
27) 2,4-Dimethylphenol	6.36	107	2232710	25.74	ug/l		92
28) Benzoic Acid	6.59	105	3537207	50.42	ug/l		90
29) Bis(2-chloroethoxy)methane	6.47	93	2613977	24.93	ug/l		92
30) 2,4-Dichlorophenol	6.57	162	1927408	26.54	ug/l		95
31) 1,2,4-Trichlorobenzene	6.66	180	2216953	23.64	ug/l		96
32) Naphthalene	6.75	128	6614236	23.65	ug/l		97
33) 4-Chloroaniline	6.88	127	1021222	29.55	ug/l	#	33
34) 2,6-Dichlorophenol	6.83	162	1909249	26.45	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:26:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.89	225	1101171	24.49 ug/l	98
36) Caprolactum	7.29	55	~~500848~~ m	~~16.73~~ ug/l	91 8L2 c17 / 28.12
37) 1,2-bis(2-chloroethoxy)eth	7.31	63	1984988	25.02 ug/l	91
38) 4-Chloro-3-methylphenol	7.41	107	1921816	27.48 ug/l	86
39) 2-Methylnaphthalene	7.55	142	4707620	24.39 ug/l	95
40) 1-Methylnaphthalene	7.66	142	4583540	24.75 ug/l	90
41) 1,3-Dinitrobenzene	8.49	168	906528	26.14 ug/l	100
43) Hexachlorocyclopentadiene	7.72	237	1150661	28.40 ug/l	99
44) 1,2,4,5-Tetrachlorobenzene	7.74	216	1992744	24.31 ug/l	97
45) 2,4,6-Trichlorophenol	7.88	196	1372705	27.50 ug/l	93
46) 2,4,5-Trichlorophenol	7.92	198	1416546	28.06 ug/l	94
48) 2-Chloronaphthalene	8.10	162	4162674	23.99 ug/l	98
49) Biphenyl	8.08	154	5270843	23.80 ug/l	98
50) 2-Nitroaniline	8.24	138	1479818	29.27 ug/l #	79
51) Dimethylphthalate	8.45	163	4762202	24.50 ug/l #	91
52) 2,6-Dinitrotoluene	8.52	165	1208495	28.06 ug/l #	74
53) Acenaphthylene	8.57	152	6649980	24.28 ug/l	99
54) Acenaphthene	8.76	154	4148766	24.88 ug/l	95
55) 4-Nitrophenol	8.92	65	1317198	50.40 ug/l #	70
56) 2,4-Dinitrotoluene	8.97	165	1441726	28.71 ug/l #	73
57) 2,4-Dinitrophenol	8.83	184	1408516	50.31 ug/l #	80
58) Dibenzofuran	8.96	168	5717835	23.47 ug/l #	97
59) 2,3,5,6-Tetrachlorophenol	9.05	232	1169363	28.58 ug/l	94
60) 2,3,4,6-Tetrachlorophenol	9.11	232	1159673	27.96 ug/l	97
61) Diethylphthalate	9.23	149	4413326	25.35 ug/l	97
62) 4-Chlorophenyl phenyl ethe	9.34	204	2221738	23.55 ug/l #	91
63) Fluorene	9.34	166	4654178	23.64 ug/l	95
66) 4,6-Dinitro-2-methyl-pheno	9.42	198	869276	24.94 ug/l #	84
67) 1,2-Diphenylhydrazine	9.52	77	4194763	24.25 ug/l #	84
68) N-nitroso-diphenylamine	9.49	169	4020644	23.63 ug/l #	95
69) 4-Bromophenyl phenyl ether	9.89	248	1270805	24.11 ug/l	97
70) Hexachlorobenzene	9.96	284	1309523	22.97 ug/l	92
71) Atrazine	10.09	200	1209300	26.48 ug/l	99
72) Pentachlorophenol	10.18	266	920814	30.17 ug/l	98
73) Phenanthrene	10.42	178	6223441	23.06 ug/l	99
74) Anthracene	10.47	178	6495597	24.07 ug/l	99
75) Carbazole	10.66	167	3524308	25.76 ug/l #	94
77) Di-n-butylphthalate	11.04	149	6797524	25.15 ug/l	98
78) Fluoranthene	11.74	202	6689246	24.78 ug/l	96
80) Benzidine	11.91	184	2698378	47.57 ug/l #	96
81) Pyrene	11.99	202	6648869 m	24.17 ug/l	98
82) Butyl Benzyl Phthalate	12.44	149	~~1476~~	~~0.01~~ ug/l	93 302 523C / 28.43
83) Bis(2-ethylhexyl)adipate	12.78	129	2735297	29.29 ug/l #	85
84) Bis(2-ethylhexyl)phthalate	13.33	149	3818270	27.90 ug/l	99
85) Dicyclohexylphthalate	13.37	149	4780961	25.40 ug/l #	83
86) 3,3' Dichlorobenzidine	13.31	252	3277879	50.97 ug/l	97
87) Benzo(a)anthracene	13.33	228	5413304	24.00 ug/l	99
88) Chrysene	13.37	228	5531892	23.73 ug/l #	91
89) Di-n-octylphthalate	14.01	149	6626942	25.56 ug/l #	100
91) Benzo(b)fluoroanthene	14.45	252	5873806	24.90 ug/l	97
92) Benzo(k)fluoroanthene	14.48	252	5801192	22.84 ug/l	98
93) Benzo(a)pyrene	14.76	252	5669519	25.05 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:26:43 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.93	276	6045951	26.72	ug/l	96
95) Dibenzo(a,h)anthracene	15.94	278	4953536	27.21	ug/l	96
96) Benzo(g,h,i)perylene	16.26	276	5377608	25.81	ug/l	99

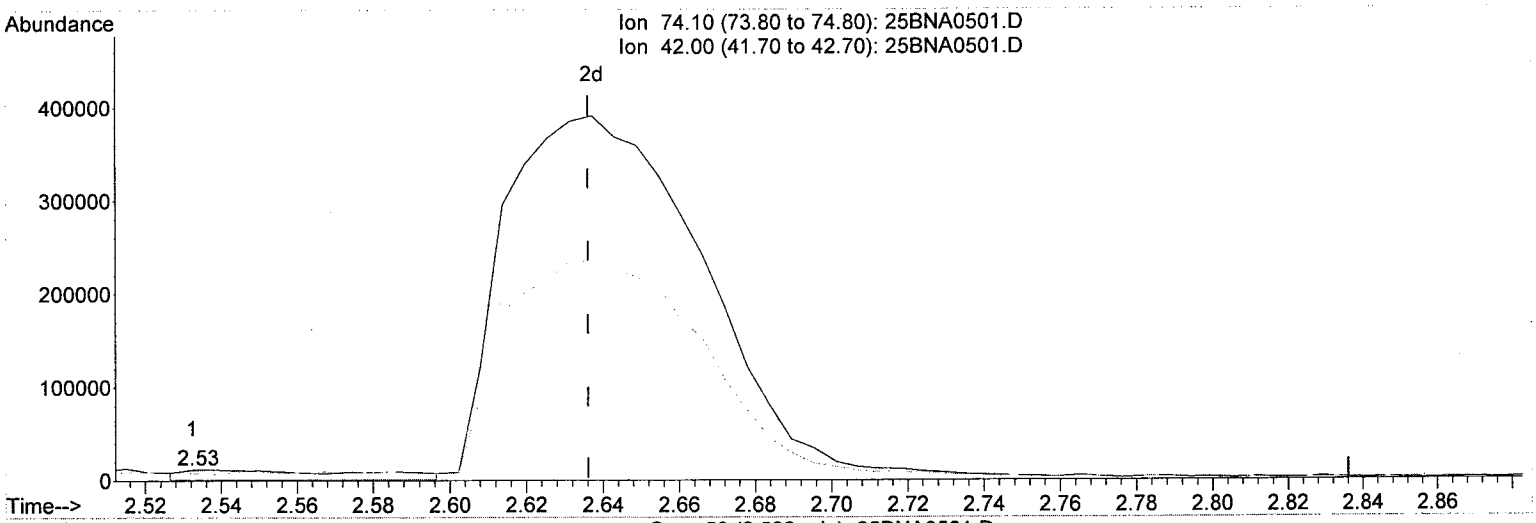
(#) = qualifier out of range (m) = manual integration (+) = signals summed

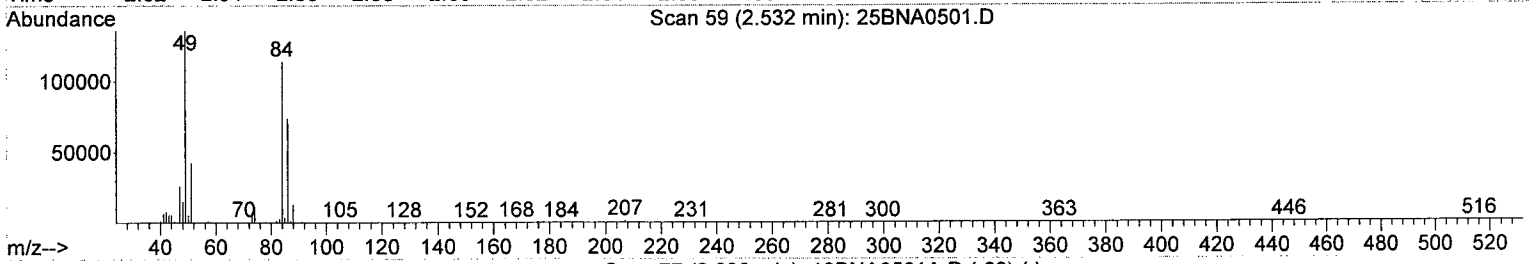
00906

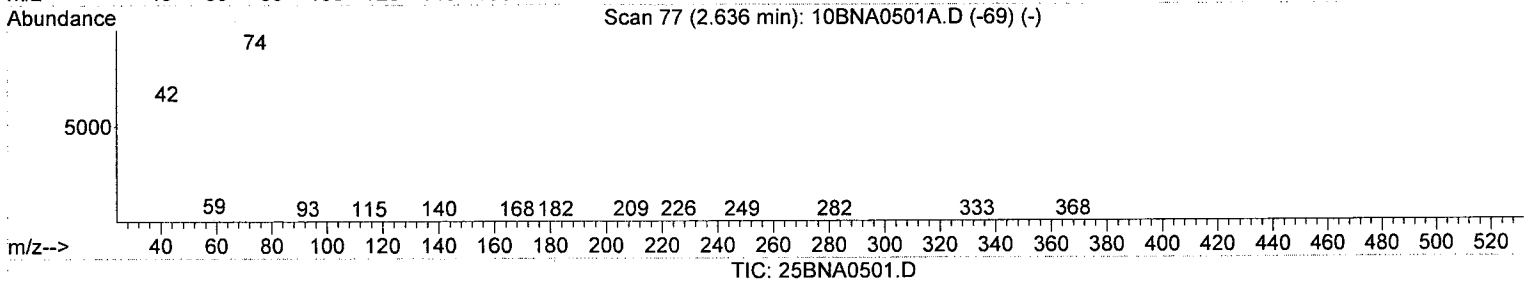
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration







TIC: 25BNA0501.D

(2) N-Nitrosodimethylamine

2.53min (-0.104) 0.64ug/l

response 34819

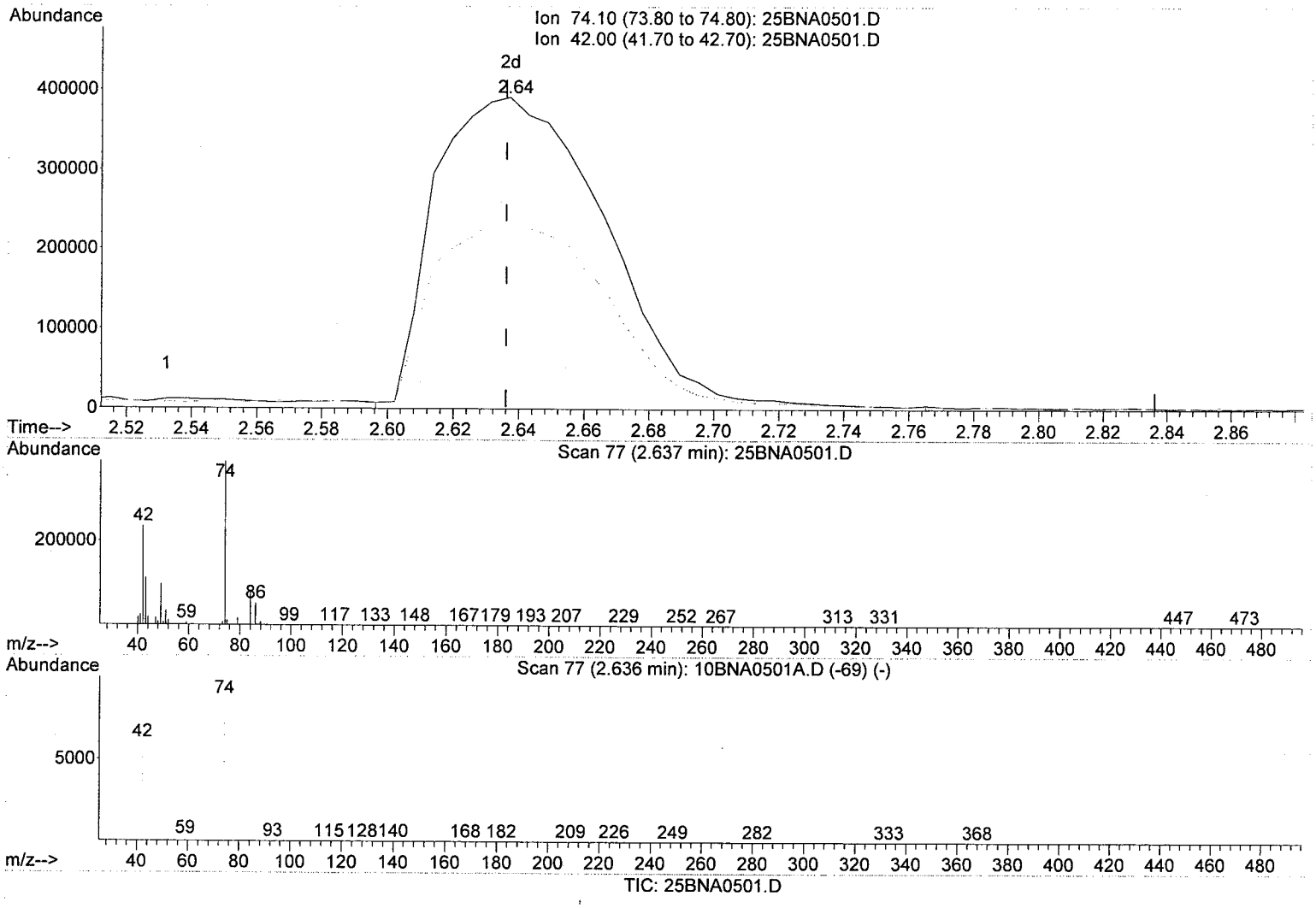
Ion	Exp%	Act%
74.10	100	100
42.00	44.50	48.27
0.00	0.00	0.00
0.00	0.00	0.00

5-31-12
Jus 5/10/12

00907

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration



(2) N-Nitrosodimethylamine

2.64min (+0.001) 26.04ug/l m

response 1418250

Ion	Exp%	Act%
74.10	100	100
42.00	44.50	1.19#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

Analyst: C Date: 5/11

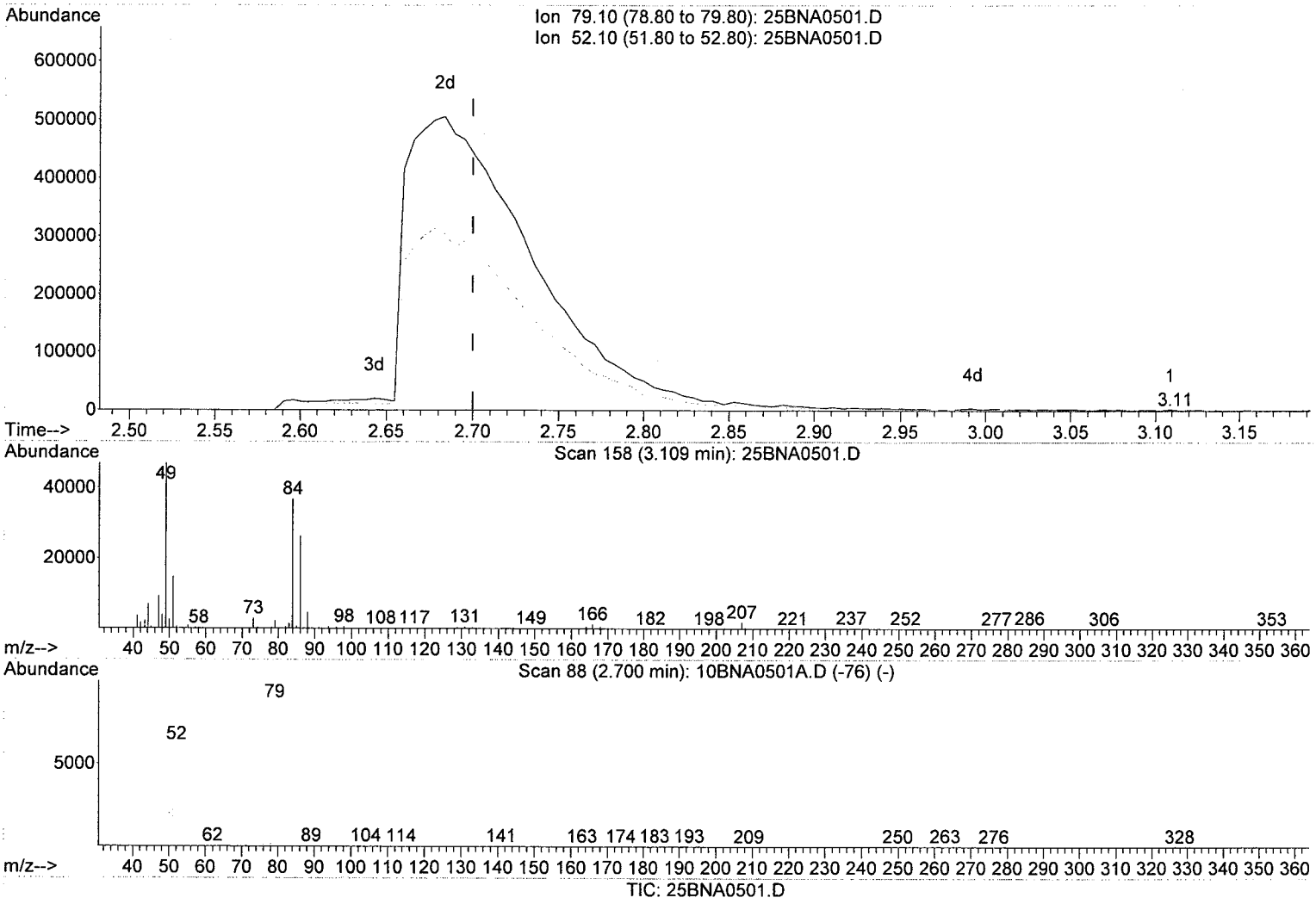
Reviewed By: JWB Date: 5/10/12

00908

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration



TIC: 25BNA0501.D

(3) Pyridine

3.11min (+0.409) 0.04ug/l

response 4153

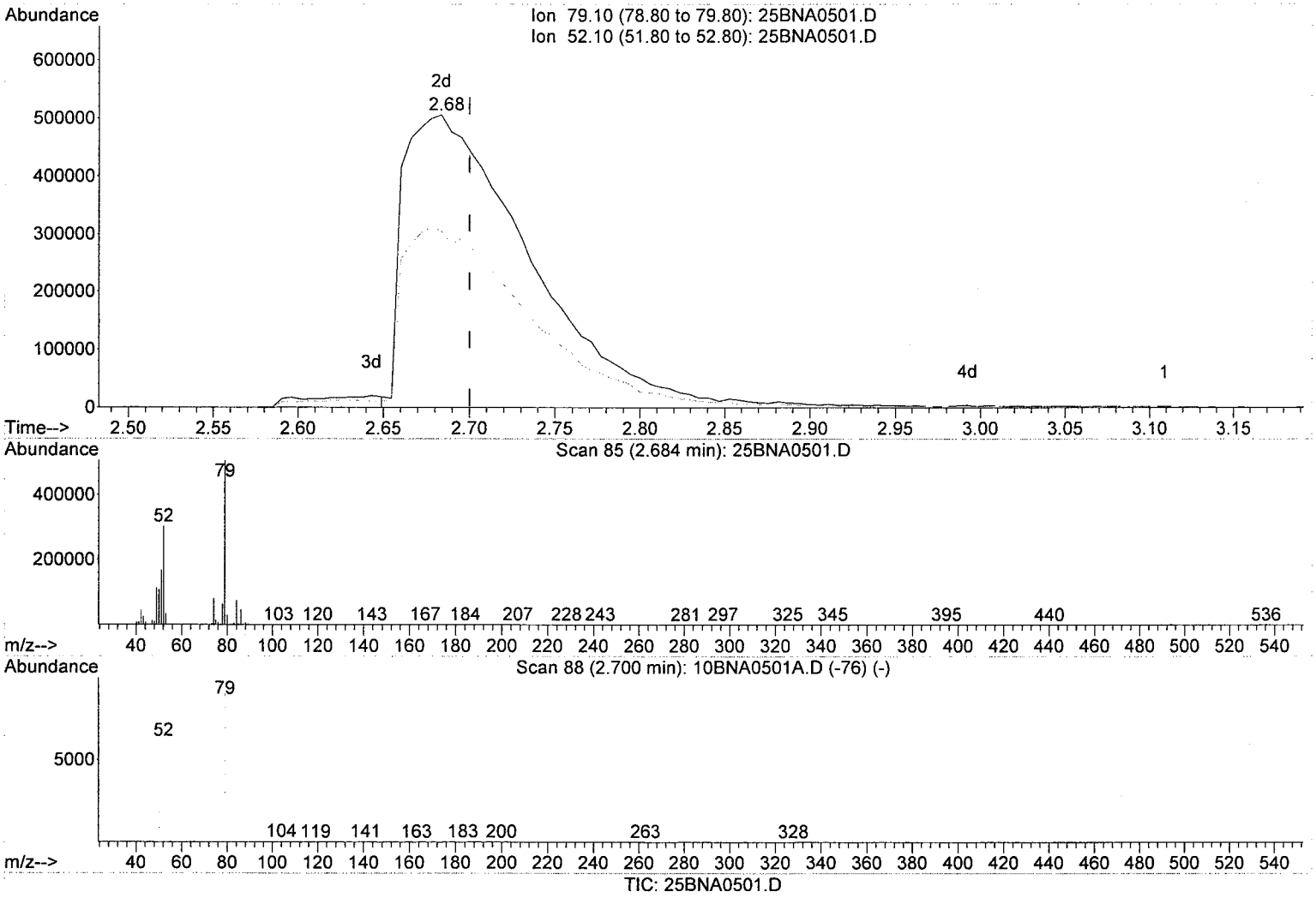
Ion	Exp%	Act%
79.10	100	100
52.10	41.00	41.39
0.00	0.00	0.00
0.00	0.00	0.00

1536

JWS 5/10/12

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration



TIC: 25BNA0501.D

(3) Pyridine

2.68min (-0.016) 26.03ug/l m

response 2585402

Ion	Exp%	Act%
79.10	100	100
52.10	41.00	0.07#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

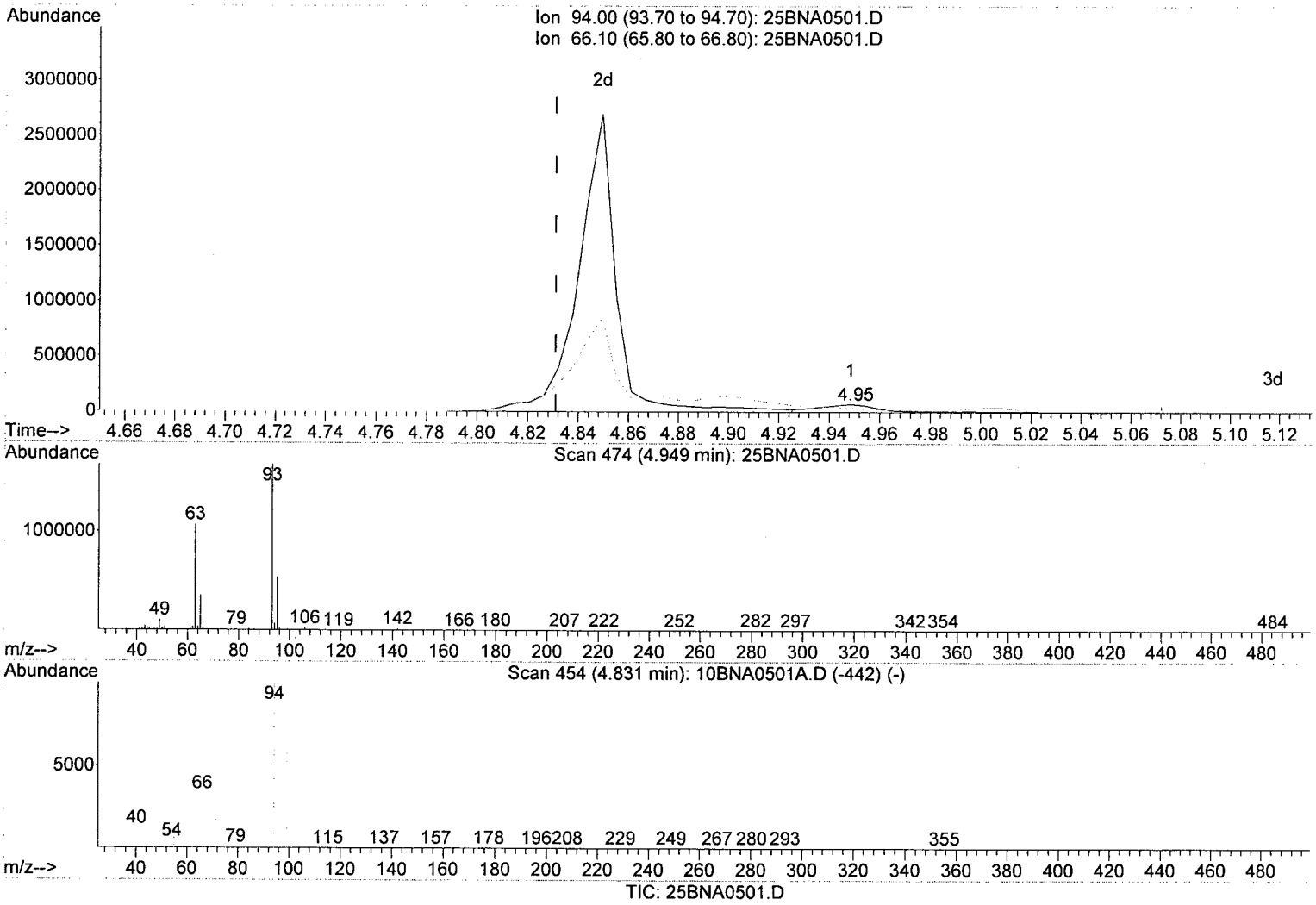
Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No
Analyst: L Date: 5/2
Reviewed By: JMB Date: 5/10/12

00910

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration



TIC: 25BNA0501.D

(6) Phenol (C)

4.95min (+0.117) 1.27ug/l

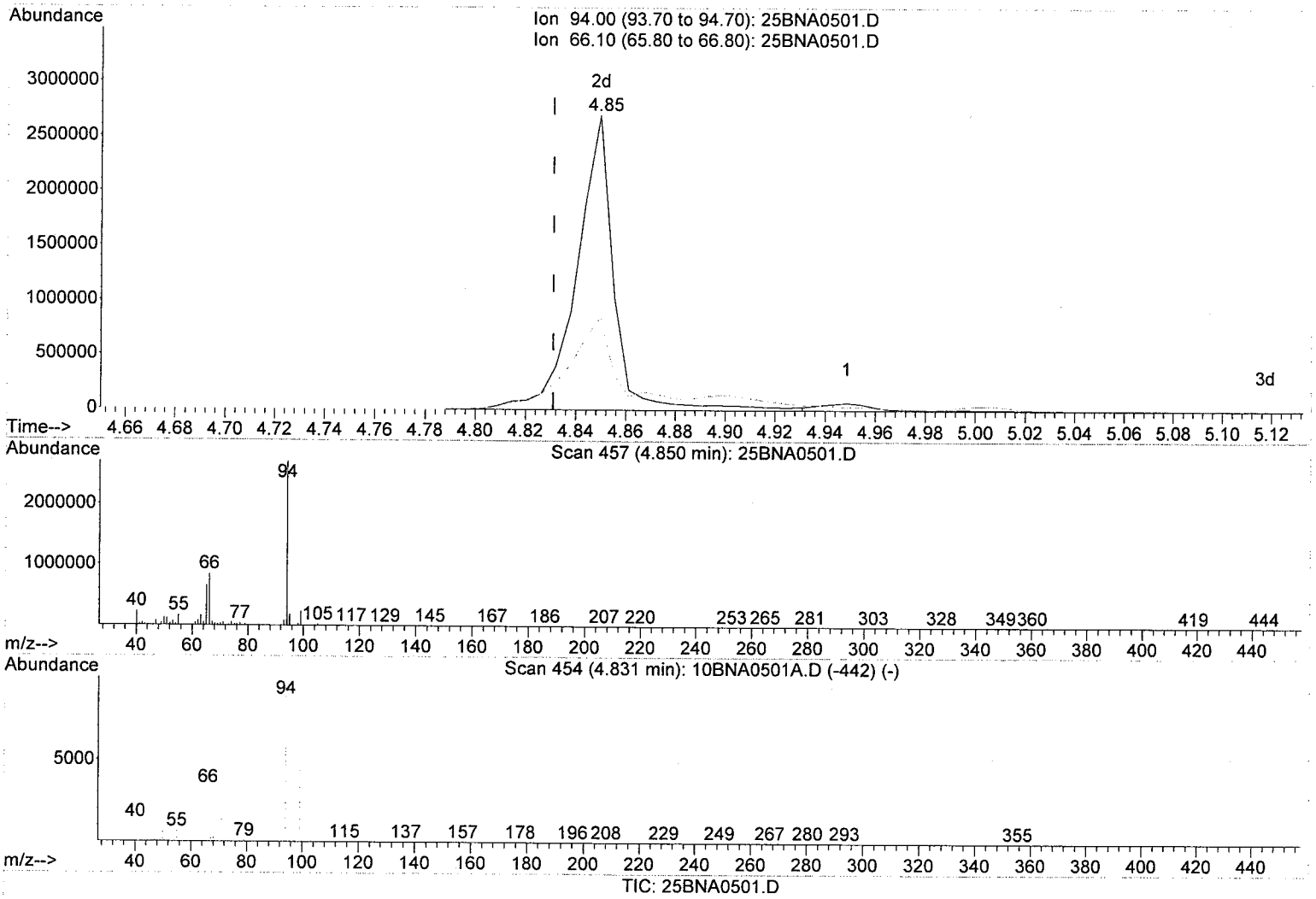
response 143630

Ion	Exp%	Act%
94.00	100	100
66.10	73.10	70.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration



(6) Phenol (C)

4.85min (+0.018) 24.95ug/l m

response 2812969

Ion	Exp%	Act%
94.00	100	100
66.10	73.10	3.59#
0.00	0.00	0.00
0.00	0.00	0.00

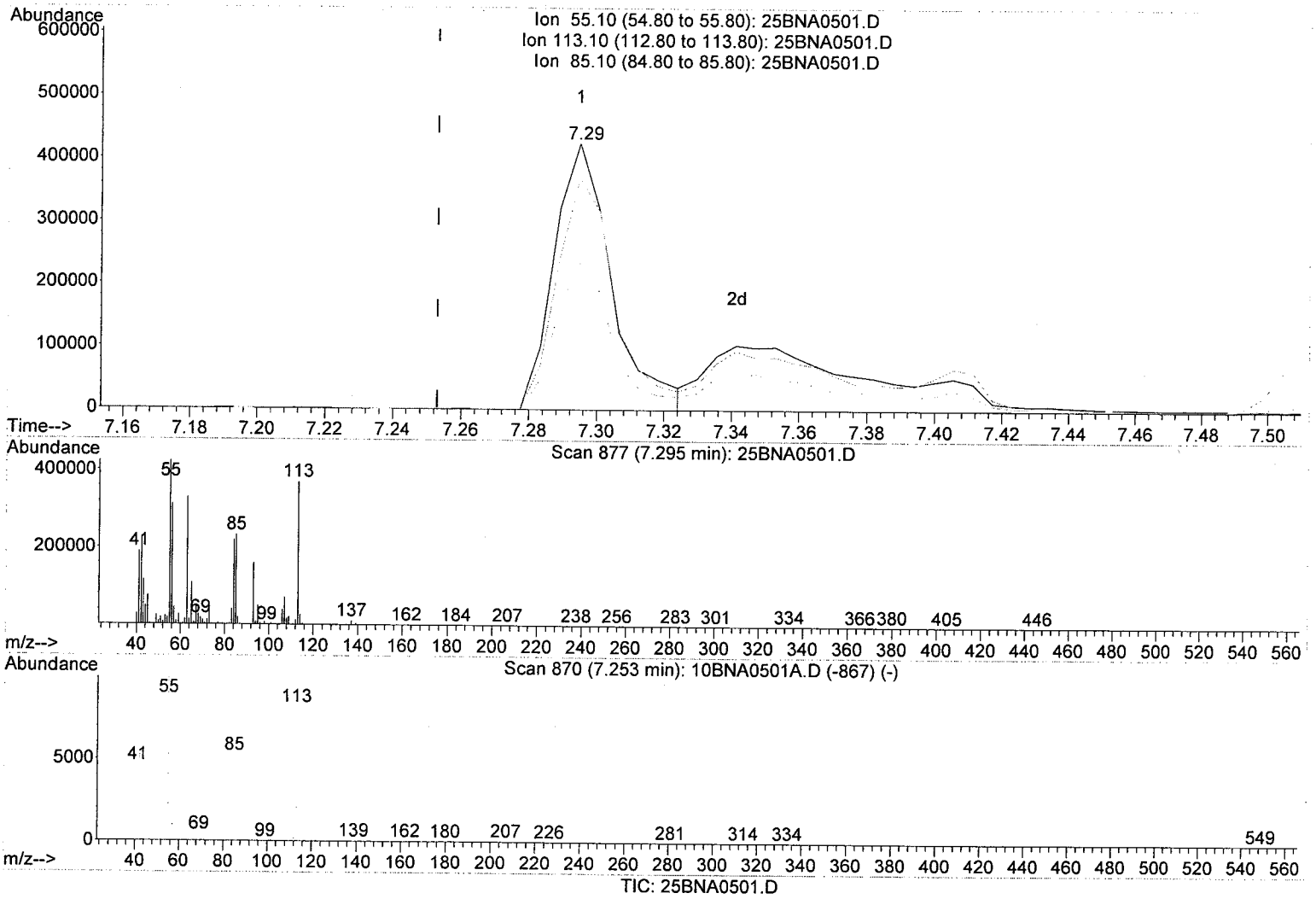
Manual integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No
Analyst: [signature] Date: 5/10
Reviewed By: [signature] Date: 5/10/12

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration



(36) Caprolactum

7.29min (+0.042) 16.34ug/l

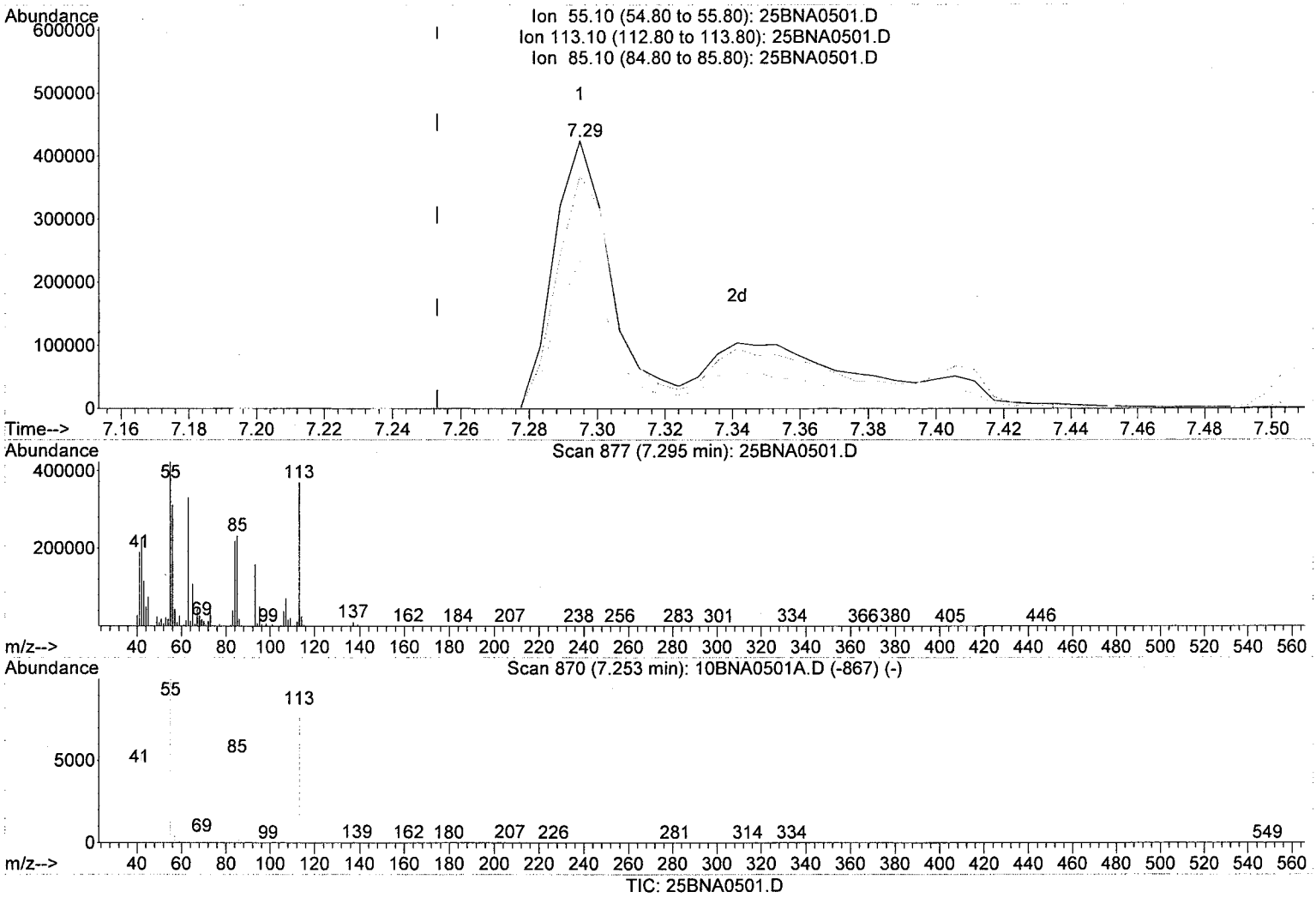
response 500848

Ion	Exp%	Act%
55.10	100	100
113.10	76.10	88.07
85.10	52.80	54.94
0.00	0.00	0.00

WRK
5/10/12

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration



TIC: 25BNA0501.D

(36) Caprolactum

7.29min (+0.042) 28.12ug/l m

response 862017

Ion	Exp%	Act%
55.10	100	100
113.10	76.10	51.17#
85.10	52.80	31.92#
0.00	0.00	0.00

Manual Integration Explanation

Reason 3: Incorrect baseline drawn by the software.

Flagged on Quantitation Report: Yes / No

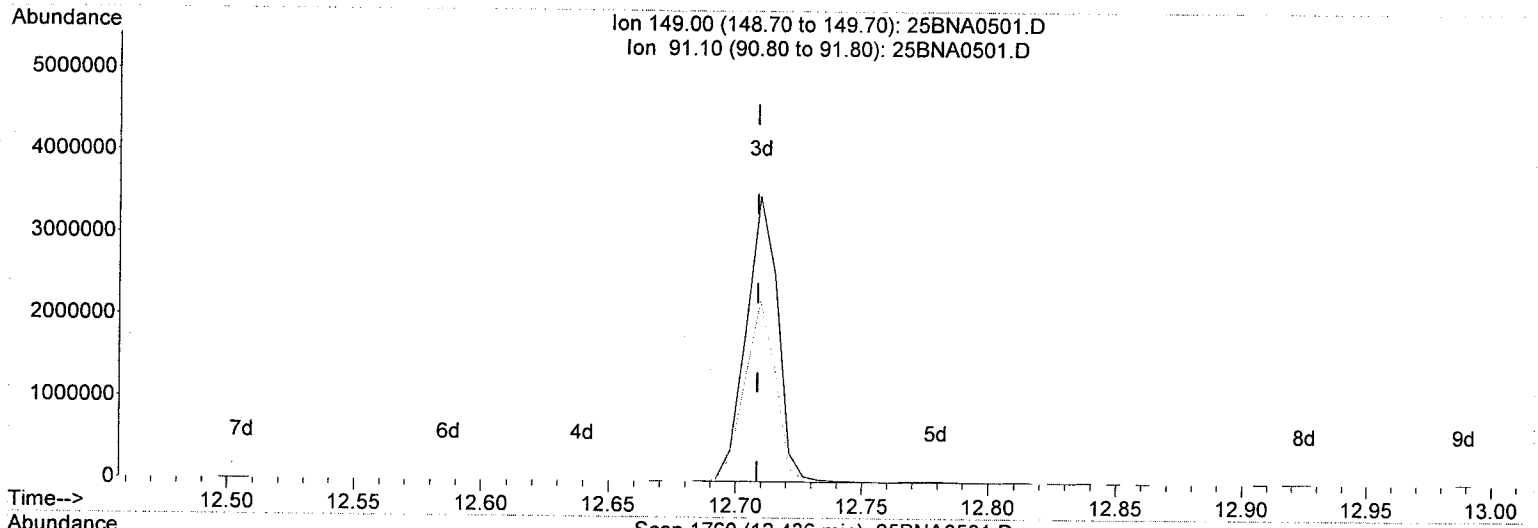
Analyst: _____ Date: 5/1/12

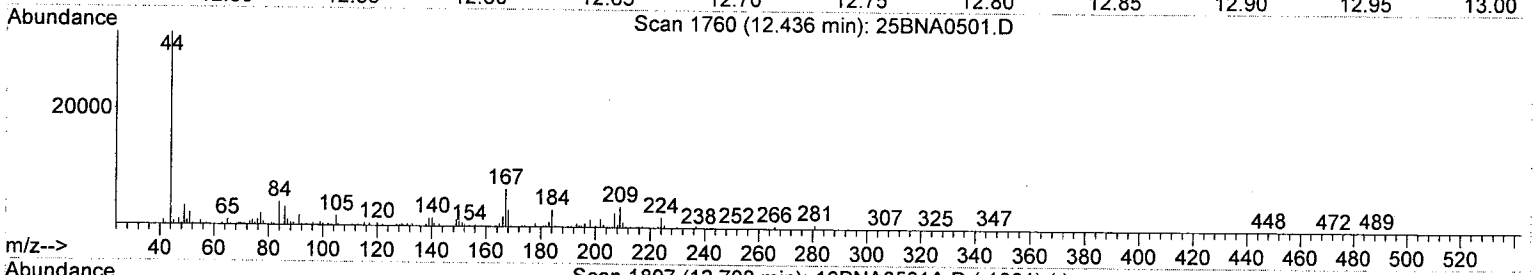
Reviewed By: JWB Date: 5/10/12

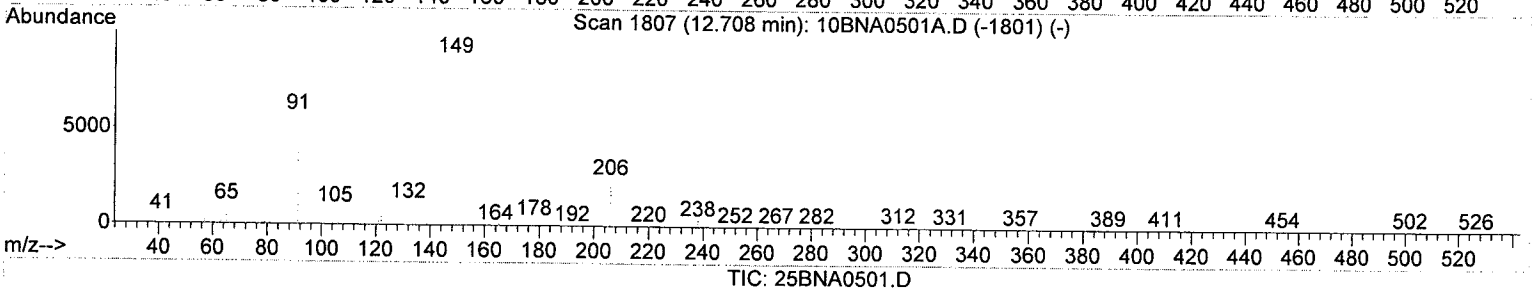
00914

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration







(82) Butyl Benzyl Phthalate

12.44min (-0.273) 0.01ug/l

response 1476

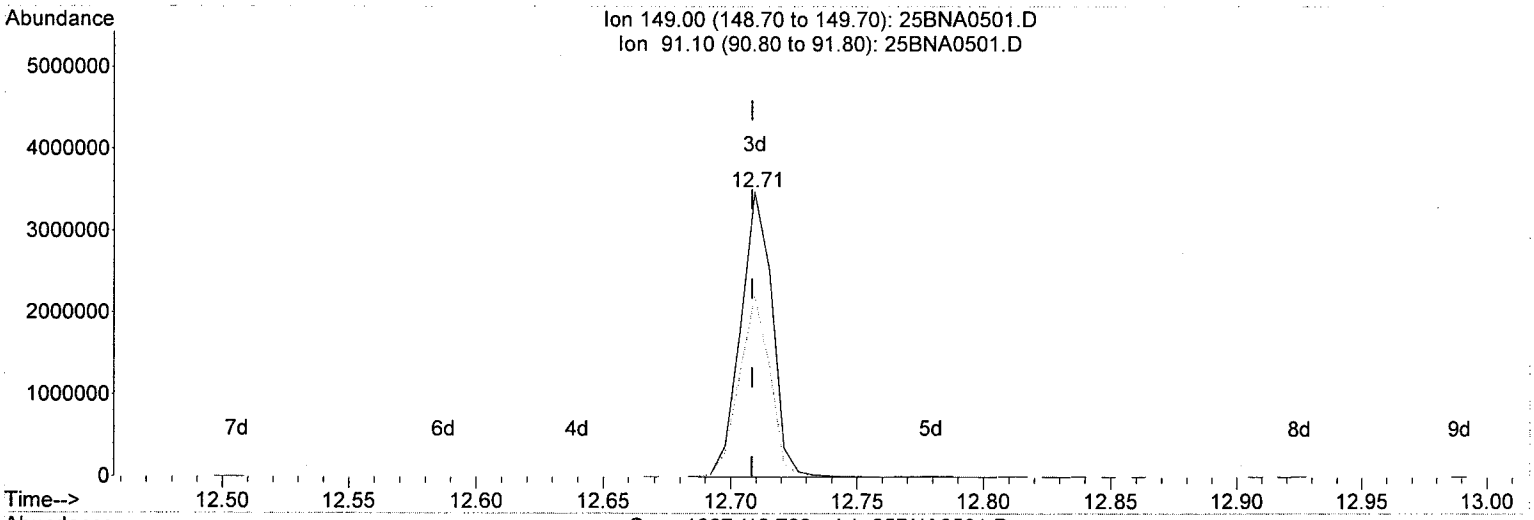
Ion	Exp%	Act%
149.00	100	100
91.10	80.80	86.86
0.00	0.00	0.00
0.00	0.00	0.00

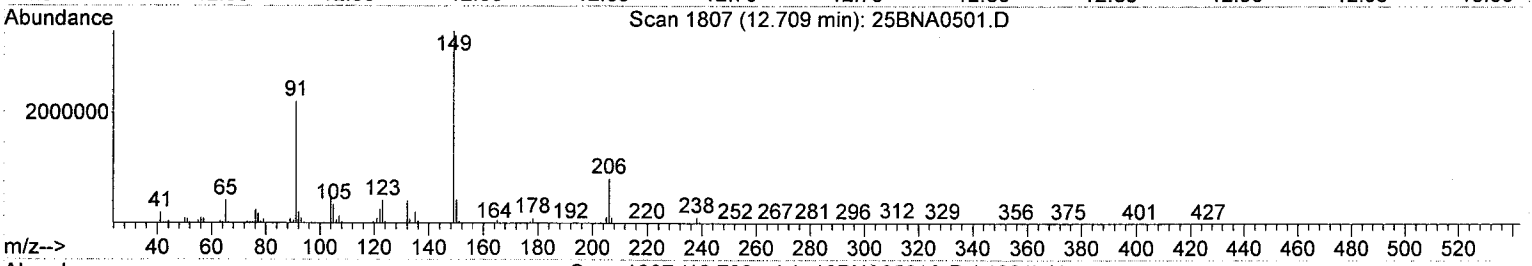
00915

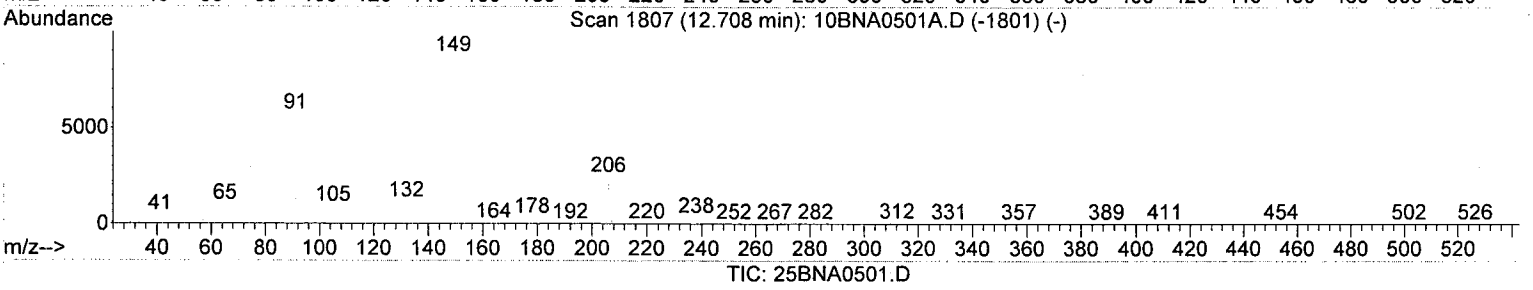
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 25BNA0501.D
Acq On : 1 May 2012 14:47
Operator : DMC
Sample : 25BNA0501
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 01 15:04:59 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 14:58:50 2012
Response via : Initial Calibration







TIC: 25BNA0501.D

(82) Butyl Benzyl Phthalate

12.71min (+0.001) 28.43ug/l m

response 3025235

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	0.04#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

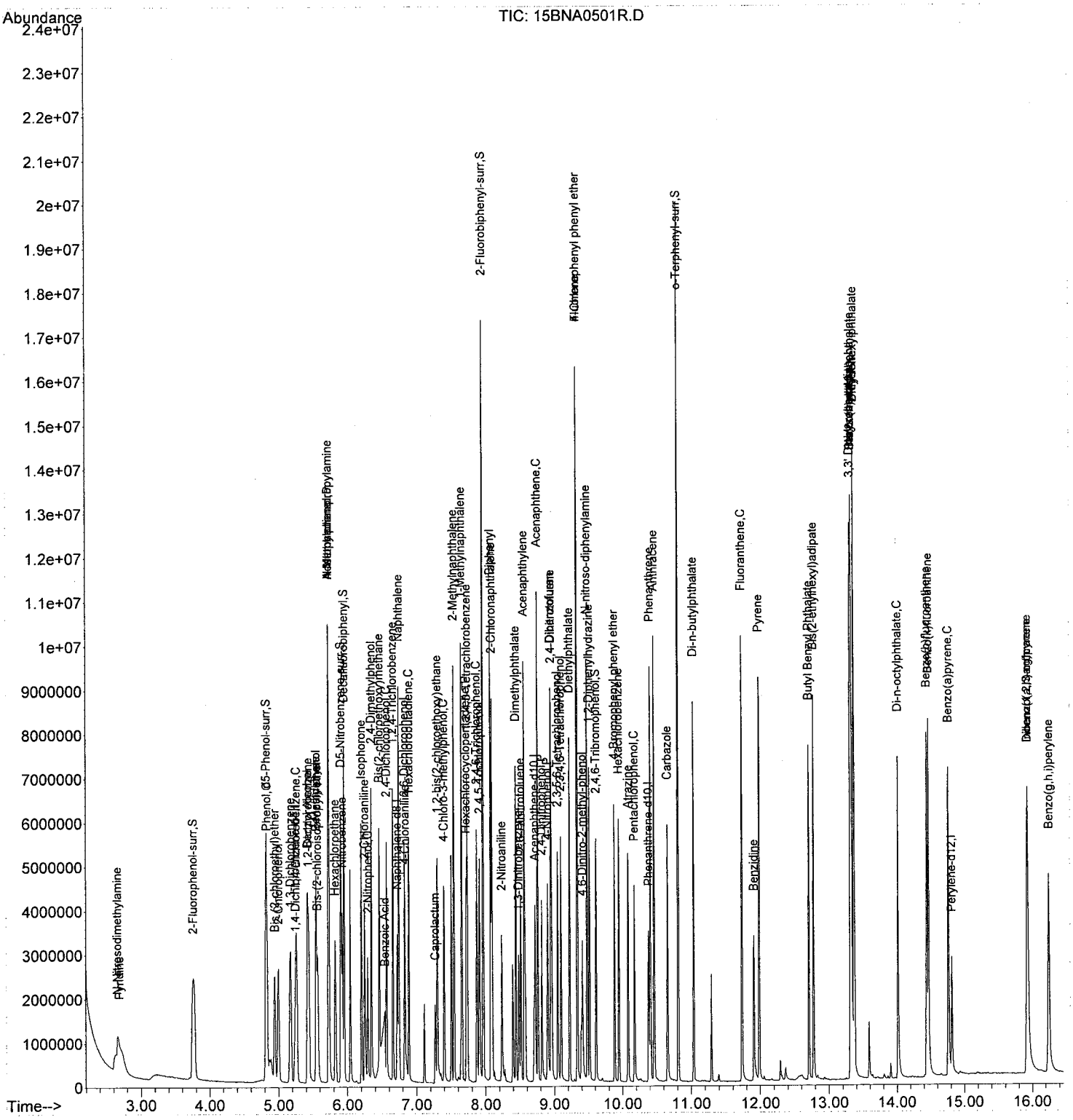
Analyst: _____ Date: 5/10/12

Reviewed By: _____ Date: 5/10/12

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:42:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration



00917

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:42:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.24	152	329522	5.00	ug/l	0.00 90.97%
21) Naphthalene-d8	6.72	136	1443717	5.00	ug/l	0.00 91.88%
42) Acenaphthene-d10	8.72	164	842957	5.00	ug/l	0.00 93.63%
65) Phenanthrene-d10	10.39	188	1409054	5.00	ug/l	0.00 97.06%
79) Chrysene-d12	13.33	240	869920	5.00	ug/l	0.00 97.87%
90) Perylene-d12	14.82	264	1041243	5.00	ug/l	0.00 98.99%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.77	112	2510423	32.58	ug/l	0.00
5) d5-Phenol-surr	4.82	99	3045369	31.27	ug/l	0.00
19) Decafluorobiphenyl	5.95	334	2061816	28.98	ug/l	0.00
22) D5-Nitrobenzene-surr	5.91	128	1284644	31.96	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.97	172	5133097	28.26	ug/l	0.00
64) 2,4,6-Tribromophenol	9.62	330	629975	32.63	ug/l	0.00
76) o-Terphenyl-surr	10.82	230	3619573	27.86	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.65	74	804919	16.15	ug/l #	75
3) Pyridine	2.69	79	1512460m	16.60	ug/l #	95
6) Phenol	4.84	94	1627733m	15.72	ug/l #	94
7) Bis (2-chloroethyl)ether	4.95	93	1463980	15.63	ug/l #	71
8) 2-Chlorophenol	5.00	128	1439885	16.03	ug/l #	85
9) 1,3-Dichlorobenzene	5.17	146	1594323	15.31	ug/l #	89
10) 1,4-Dichlorobenzene	5.26	146	1597124	15.60	ug/l #	87
11) Benzaldehyde	5.55	105	9482	13.72	ug/l #	1
12) Benzyl Alcohol	5.42	108	885871	17.18	ug/l	90
13) 1,2-Dichlorobenzene	5.44	146	1467721	15.05	ug/l #	87
14) 2-Methylphenol	5.55	108	1294378	16.29	ug/l #	94
15) Bis-(2-chloroisopropyl)-et	5.56	45	1670637	15.01	ug/l	92
16) Acetophenone	5.73	105	1741224	15.62	ug/l	84
17) 4-Methylphenol	5.73	107	1363382	16.17	ug/l	91
18) N-Nitrosodi-n-propylamine	5.73	70	828223	15.20	ug/l #	85
20) Hexachloroethane	5.82	117	554059	15.40	ug/l	92
23) Nitrobenzene	5.93	77	1300107	15.90	ug/l #	91
24) Isophorone	6.21	82	2457240	15.83	ug/l #	92
25) 2-Chloroaniline	6.25	127	1586256	15.33	ug/l #	100
26) 2-Nitrophenol	6.30	139	848003	17.05	ug/l #	75
27) 2,4-Dimethylphenol	6.35	107	1286493	15.98	ug/l	94
28) Benzoic Acid	6.54	105	1833539	31.92	ug/l	90
29) Bis(2-chloroethoxy)methane	6.46	93	1527076	15.69	ug/l	91
30) 2,4-Dichlorophenol	6.57	162	1091149	16.18	ug/l	95
31) 1,2,4-Trichlorobenzene	6.66	180	1305338	15.00	ug/l	99
32) Naphthalene	6.75	128	3966094	15.28	ug/l	96
33) 4-Chloroaniline	6.84	127	457824	14.03	ug/l #	45
34) 2,6-Dichlorophenol	6.83	162	1085726	16.20	ug/l	97

00918

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:42:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.89	225	640597	15.35	ug/l		98
36) Caprolactum	7.27	55	467014m	16.81	ug/l	#	92
37) 1,2-bis(2-chloroethoxy)eth	7.30	63	1138828	15.46	ug/l		94
38) 4-Chloro-3-methylphenol	7.40	107	1094757	16.87	ug/l	#	87
39) 2-Methylnaphthalene	7.54	142	2745647	15.33	ug/l		95
40) 1-Methylnaphthalene	7.65	142	2622985	15.26	ug/l		90
41) 1,3-Dinitrobenzene	8.48	168	501360	15.84	ug/l		100
43) Hexachlorocyclopentadiene	7.72	237	651163	17.08	ug/l		98
44) 1,2,4,5-Tetrachlorobenzene	7.74	216	1136585	14.73	ug/l		98
45) 2,4,6-Trichlorophenol	7.88	196	785643	16.73	ug/l		94
46) 2,4,5-Trichlorophenol	7.92	198	802186	16.89	ug/l		95
48) 2-Chloronaphthalene	8.10	162	2443283	14.97	ug/l		98
49) Biphenyl	8.08	154	3134232	15.04	ug/l		95
50) 2-Nitroaniline	8.24	138	841484	17.69	ug/l	#	78
51) Dimethylphthalate	8.44	163	2752921	15.05	ug/l	#	90
52) 2,6-Dinitrotoluene	8.52	165	669273	16.52	ug/l	#	77
53) Acenaphthylene	8.56	152	3964745	15.38	ug/l		99
54) Acenaphthene	8.76	154	2357862	15.03	ug/l		97
55) 4-Nitrophenol	8.91	65	741577	32.51	ug/l	#	74
56) 2,4-Dinitrotoluene	8.96	165	800438	16.94	ug/l	#	73
57) 2,4-Dinitrophenol	8.82	184	705618	32.19	ug/l	#	82
58) Dibenzofuran	8.95	168	3354999	14.64	ug/l	#	97
59) 2,3,5,6-Tetrachlorophenol	9.05	232	652611	16.95	ug/l		97
60) 2,3,4,6-Tetrachlorophenol	9.10	232	654858	16.78	ug/l		99
61) Diethylphthalate	9.23	149	2564751	15.59	ug/l		98
62) 4-Chlorophenyl phenyl ethe	9.34	204	1302513	14.67	ug/l	#	91
63) Fluorene	9.34	166	2753990	14.87	ug/l	#	96
66) 4,6-Dinitro-2-methyl-pheno	9.41	198	464023	16.35	ug/l	#	85
67) 1,2-Diphenylhydrazine	9.52	77	2414457	15.17	ug/l	#	86
68) N-nitroso-diphenylamine	9.48	169	2390127	15.27	ug/l	#	94
69) 4-Bromophenyl phenyl ether	9.88	248	737622	15.21	ug/l		99
70) Hexachlorobenzene	9.95	284	745427	14.21	ug/l		93
71) Atrazine	10.09	200	682058	16.23	ug/l		98
72) Pentachlorophenol	10.18	266	503803	17.94	ug/l		98
73) Phenanthrene	10.41	178	3706324	14.92	ug/l		98
74) Anthracene	10.47	178	3823783	15.40	ug/l		97
75) Carbazole	10.66	167	2515316	17.30	ug/l	#	95
77) Di-n-butylphthalate	11.04	149	3970917	15.97	ug/l		99
78) Fluoranthene	11.74	202	3867595	15.57	ug/l		95
80) Benzidine	11.91	184	1665993	31.34	ug/l	#	94
81) Pyrene	11.99	202	3981347	15.44	ug/l		100
82) Butyl Benzyl Phthalate	12.71	149	1691410m	16.98	ug/l	#	83
83) Bis(2-ethylhexyl)adipate	12.78	129	1492400	17.06	ug/l	#	86
84) Bis(2-ethylhexyl)phthalate	13.33	149	2106228	16.43	ug/l		100
85) Dicyclohexylphthalate	13.37	149	2757995	15.64	ug/l	#	84
86) 3,3' Dichlorobenzidine	13.31	252	1921641	31.89	ug/l		96
87) Benzo(a)anthracene	13.32	228	3249133	15.37	ug/l		98
88) Chrysene	13.37	228	3320611	15.21	ug/l	#	90
89) Di-n-octylphthalate	14.01	149	3665735	15.37	ug/l	#	100
91) Benzo(b)fluoroanthene	14.44	252	3113945	14.93	ug/l		98
92) Benzo(k)fluoroanthene	14.47	252	3574371	15.91	ug/l		99
93) Benzo(a)pyrene	14.76	252	3180812	15.89	ug/l		99

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:42:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration

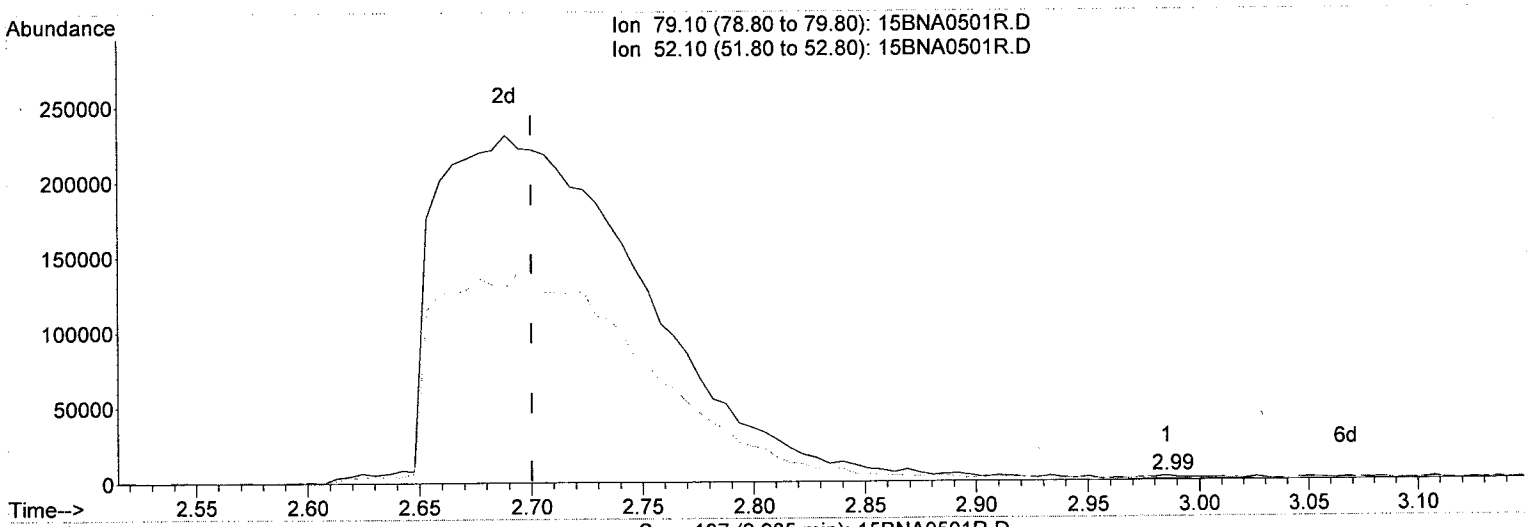
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.92	276	3297267	16.48	ug/l	97
95) Dibenzo(a,h)anthracene	15.93	278	2667131	16.56	ug/l	96
96) Benzo(g,h,i)perylene	16.25	276	2952510	16.02	ug/l	98

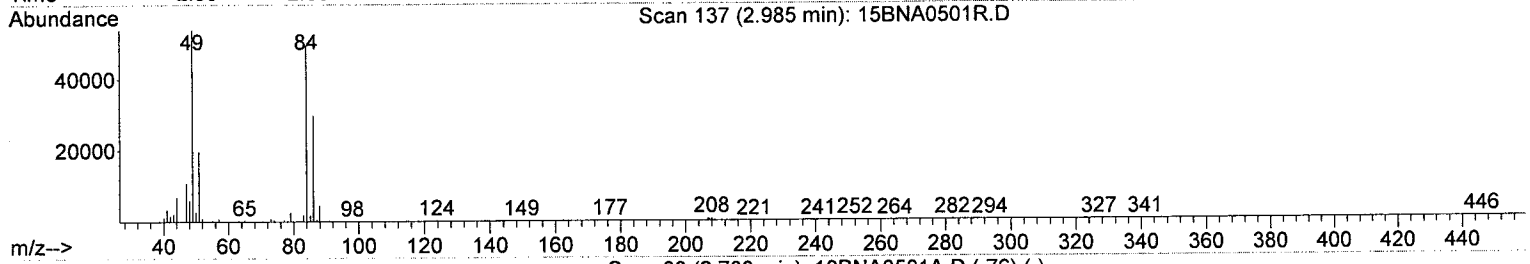
(#) = qualifier out of range (m) = manual integration (+) = signals summed

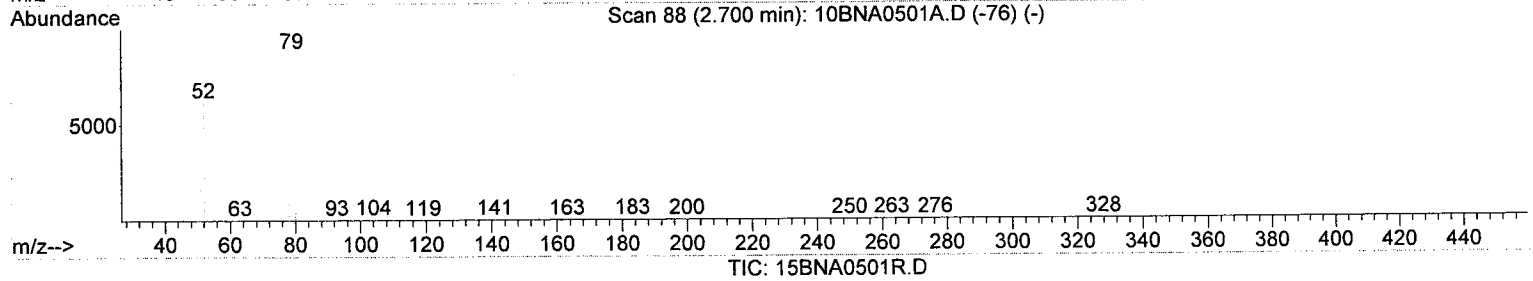
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:41:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration







TIC: 15BNA0501R.D

(3) Pyridine

2.99min (+0.285) 0.05ug/l

response 4621

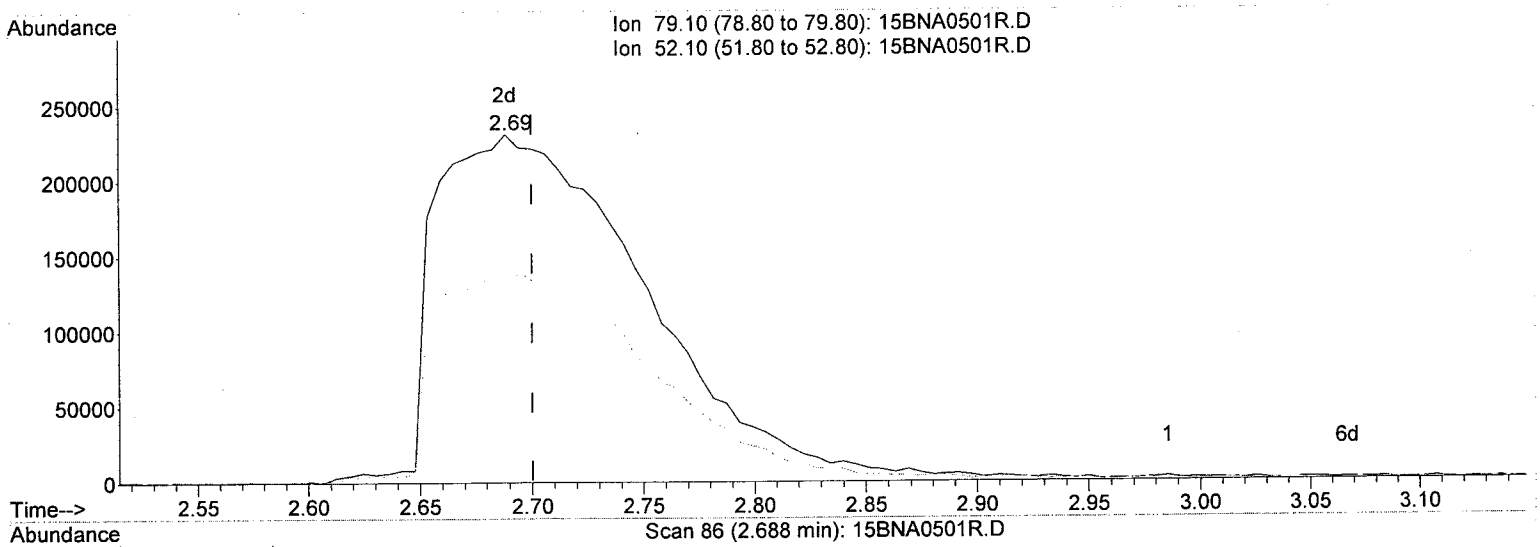
Ion	Exp%	Act%
79.10	100	100
52.10	41.00	37.78
0.00	0.00	0.00
0.00	0.00	0.00

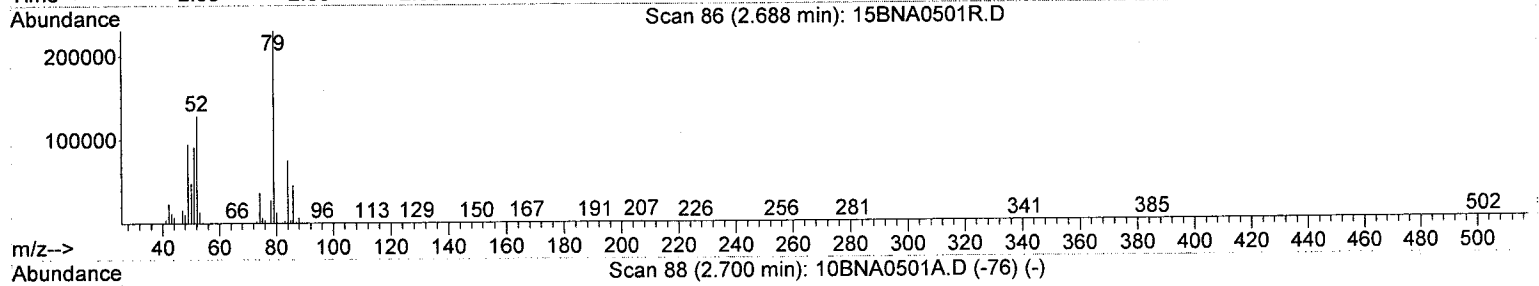
00921

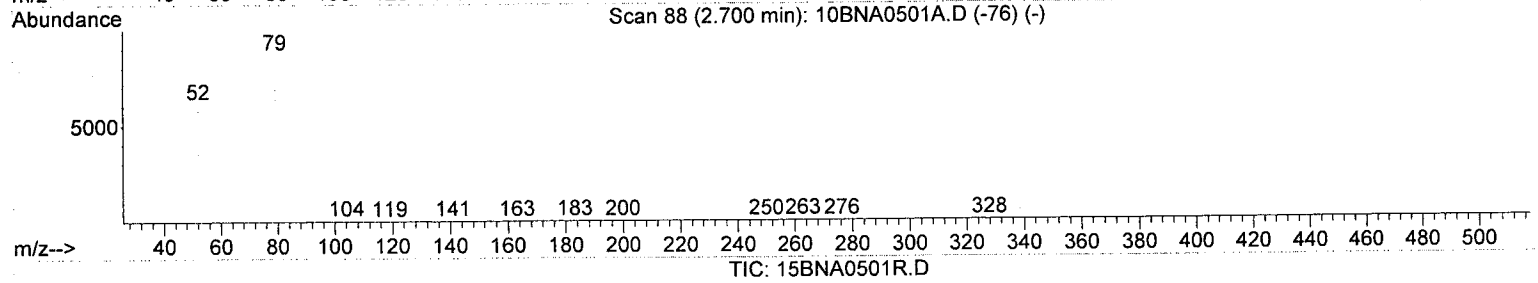
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:41:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration







TIC: 15BNA0501R.D

(3) Pyridine

2.69min (-0.012) 16.60ug/l m

response 1512460

Ion	Exp%	Act%
79.10	100	100
52.10	41.00	0.12#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

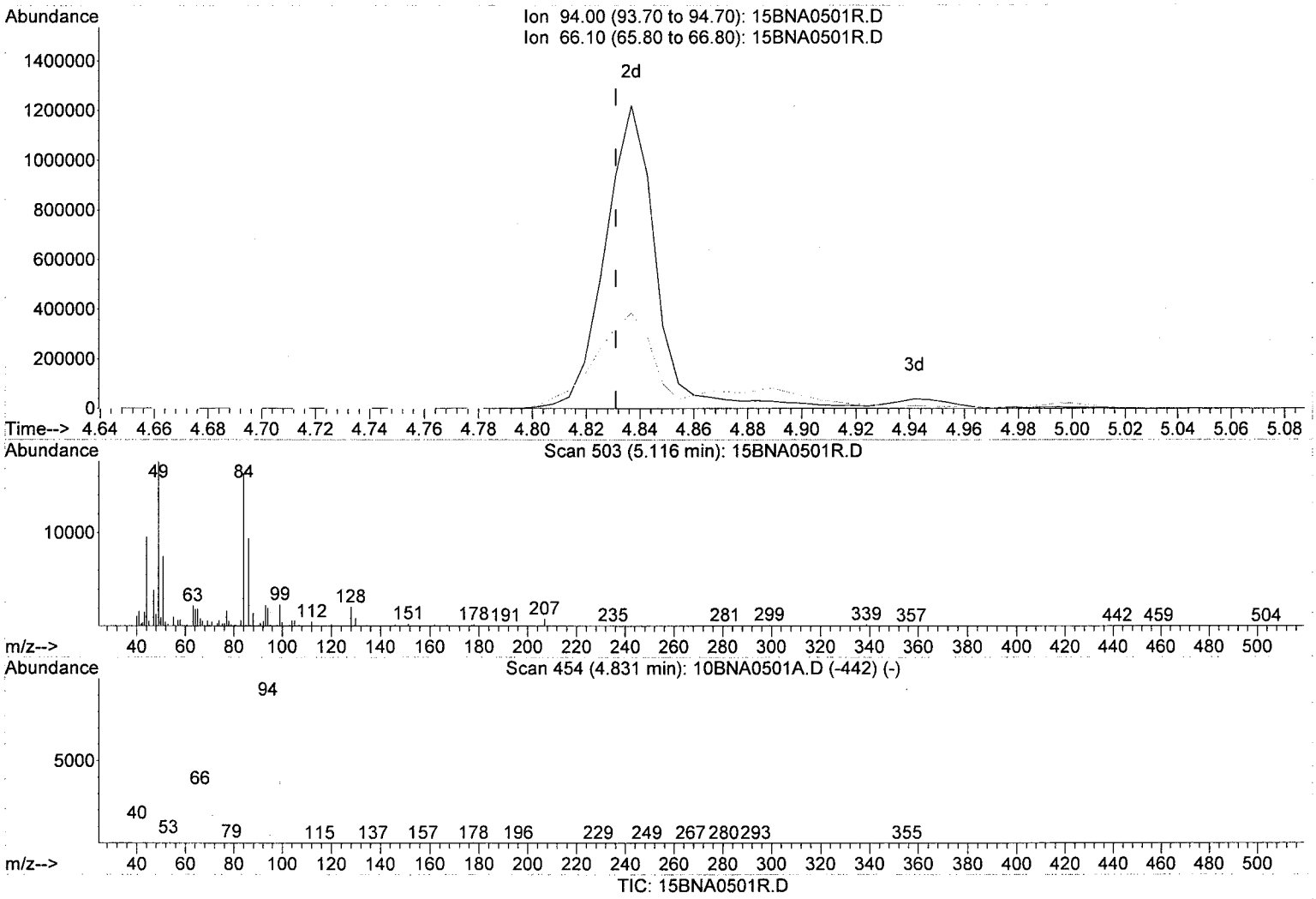
Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No
Analyst: L Date: 5/10/12
Reviewed By: JWB Date: 5/10/12

00922

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:41:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration



(6) Phenol (C)

5.12min (+0.285) 0.04ug/l

response 4082

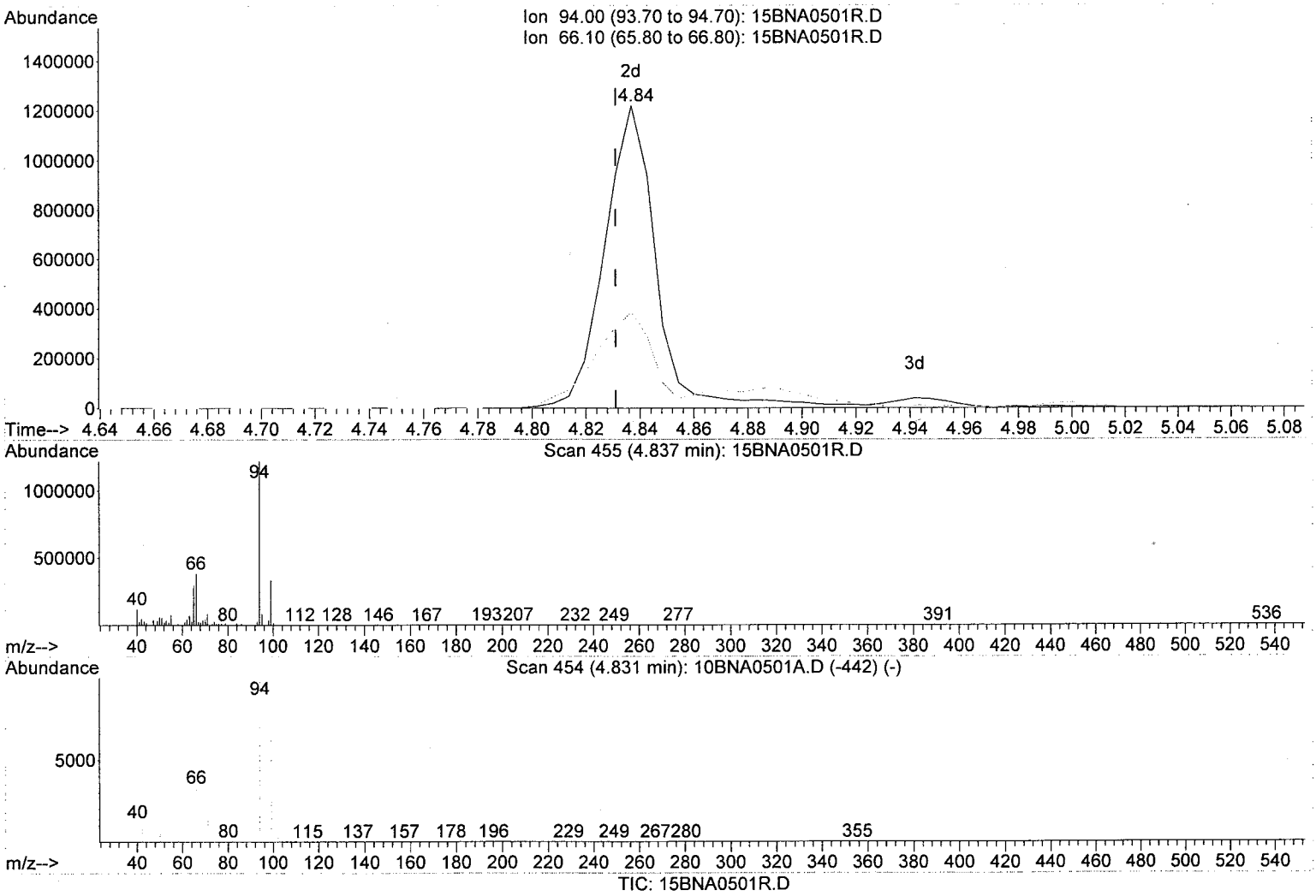
Ion	Exp%	Act%
94.00	100	100
66.10	73.10	67.91
0.00	0.00	0.00
0.00	0.00	0.00

GRS 5/10/12

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:41:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration



(6) Phenol (C)

4.84min (+0.006) 15.72ug/l m

response 1627733

Ion	Exp%	Act%
94.00	100	100
66.10	73.10	0.17#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

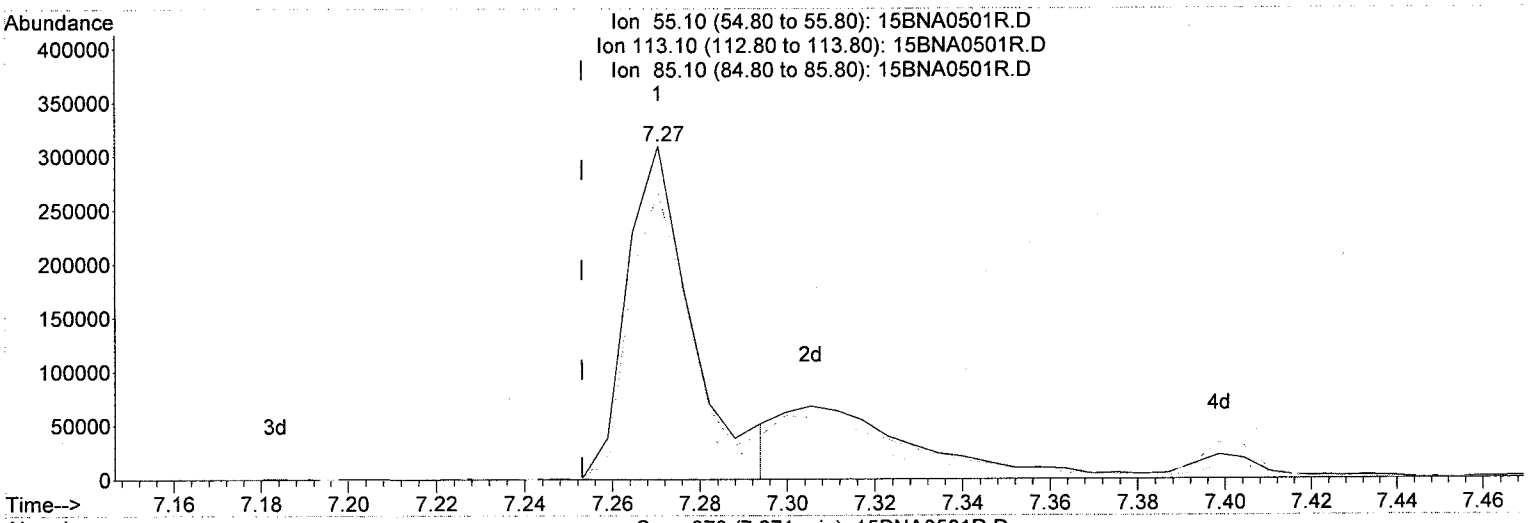
Flagged on Quantitation Report: Yes / No
Analyst: [illegible] Date: 5/1/12
Reviewed By: [illegible] Date: 5/10/12

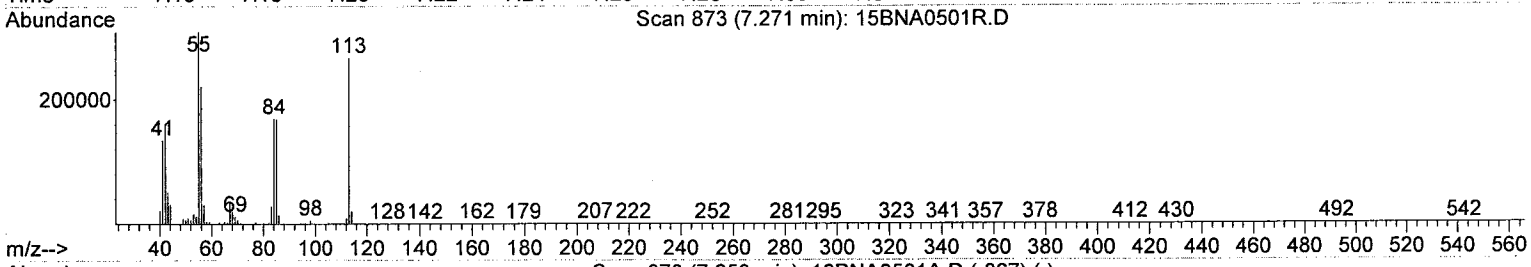
00924

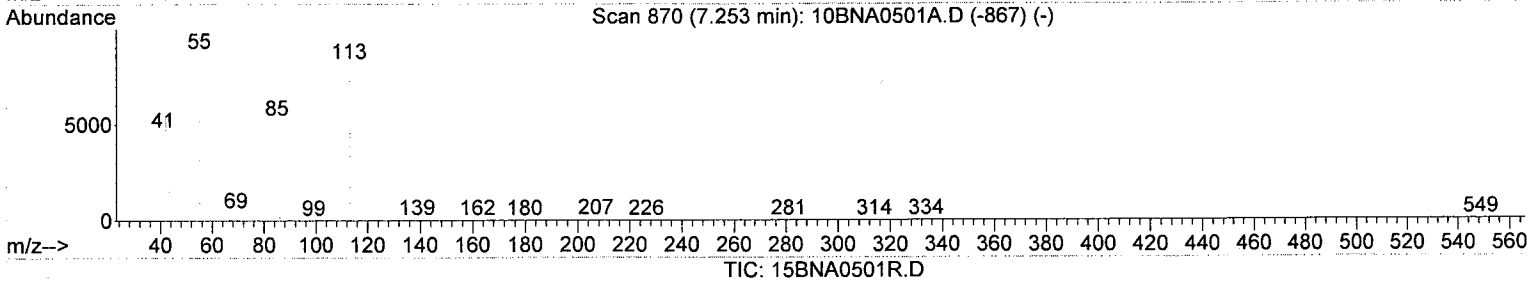
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:41:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration







TIC: 15BNA0501R.D

(36) Caprolactum

7.27min (+0.017) 11.48ug/l

response 319002

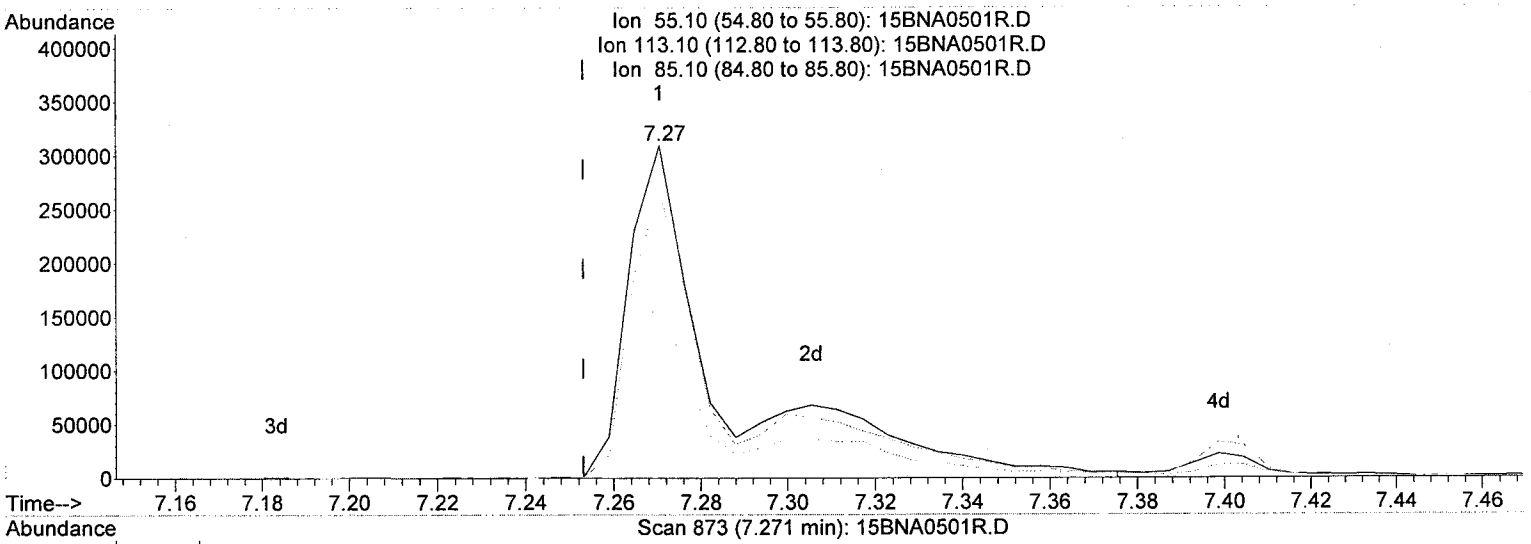
Ion	Exp%	Act%
55.10	100	100
113.10	76.10	86.43
85.10	52.80	54.11
0.00	0.00	0.00

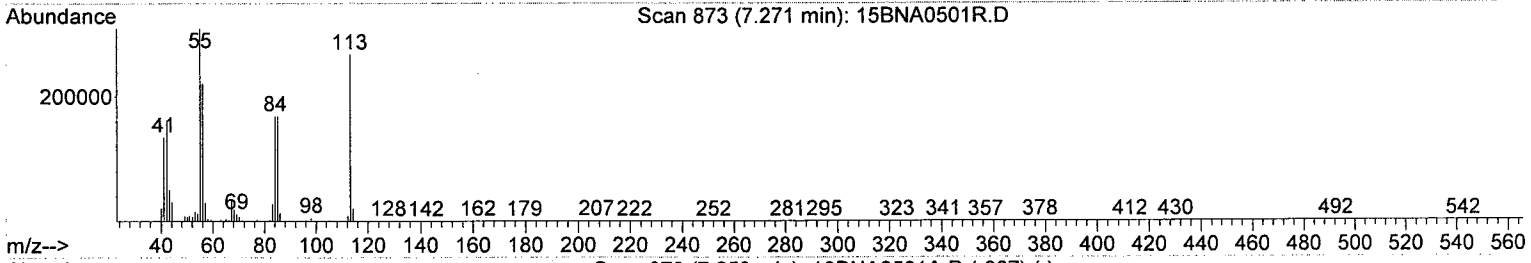
00925

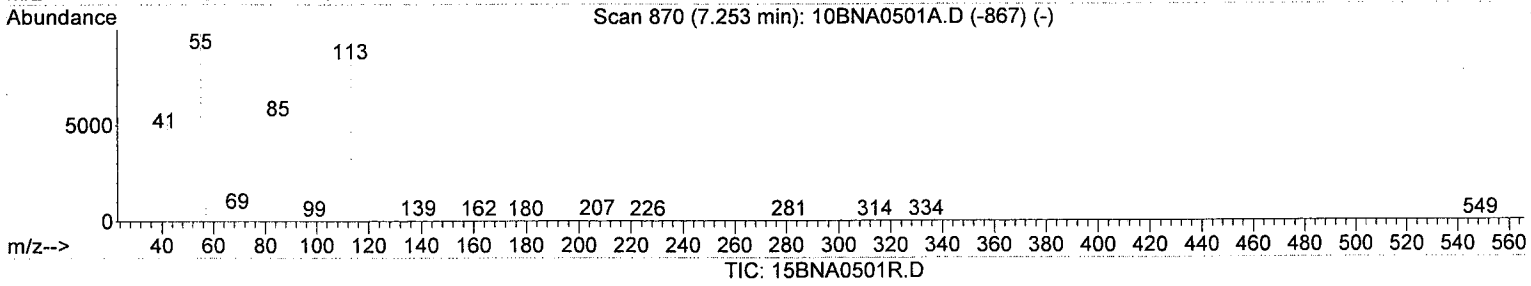
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:41:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration







TIC: 15BNA0501R.D

(36) Caprolactum

7.27min (+0.017) 16.81ug/l m

response 467014

Ion	Exp%	Act%
55.10	100	100
113.10	76.10	59.04#
85.10	52.80	36.96#
0.00	0.00	0.00

Manual Integration Explanation

Reason 3: Incorrect baseline drawn by the software.

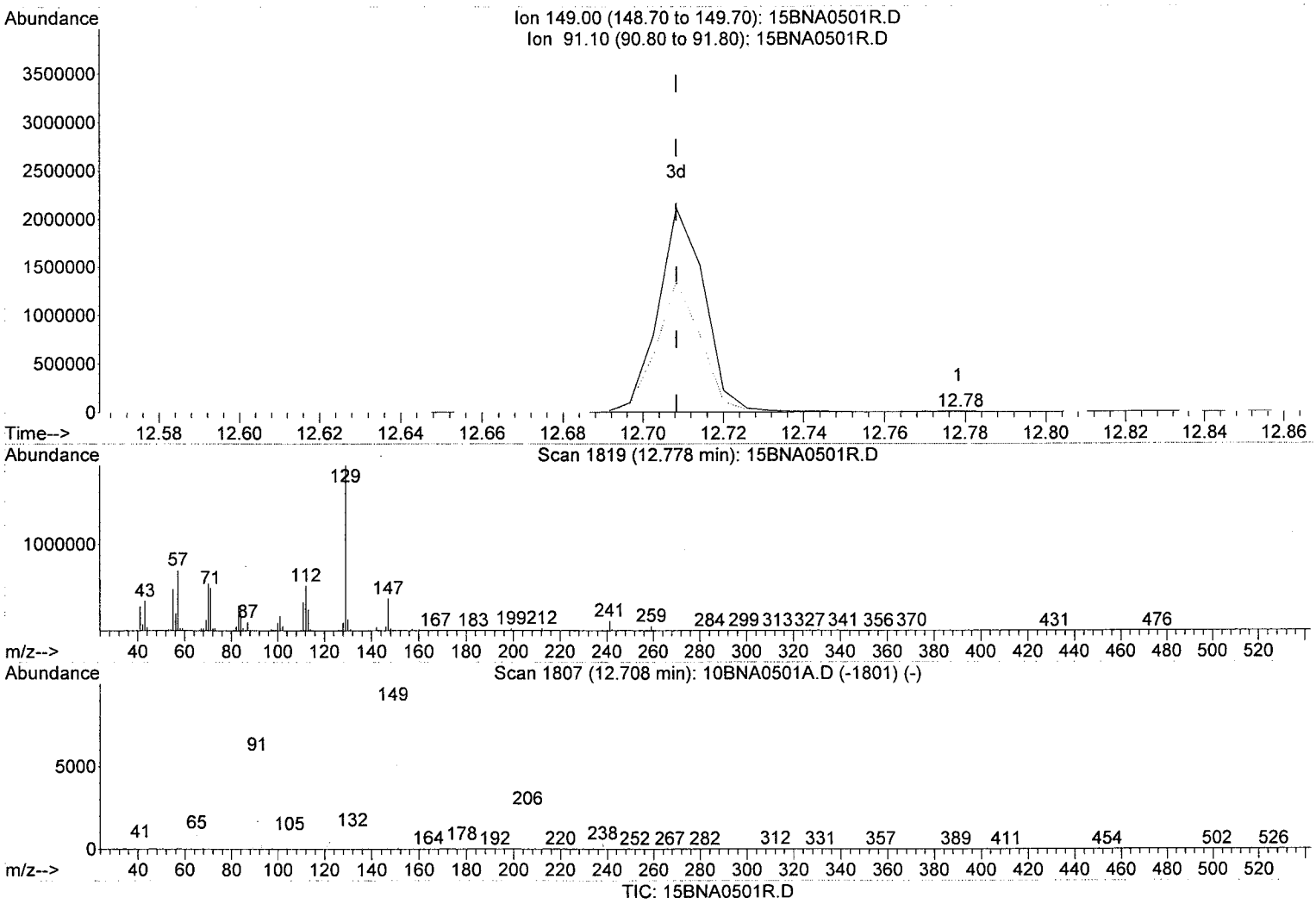
Flagged on Quantitation Report: Yes / No
Analyst: L Date: 5/10/12
Reviewed By: JWS Date: 5/10/12

00926

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:41:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration



TIC: 15BNA0501R.D

(82) Butyl Benzyl Phthalate

12.78min (+0.070) 0.11ug/l

response 10745

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	65.71
0.00	0.00	0.00
0.00	0.00	0.00

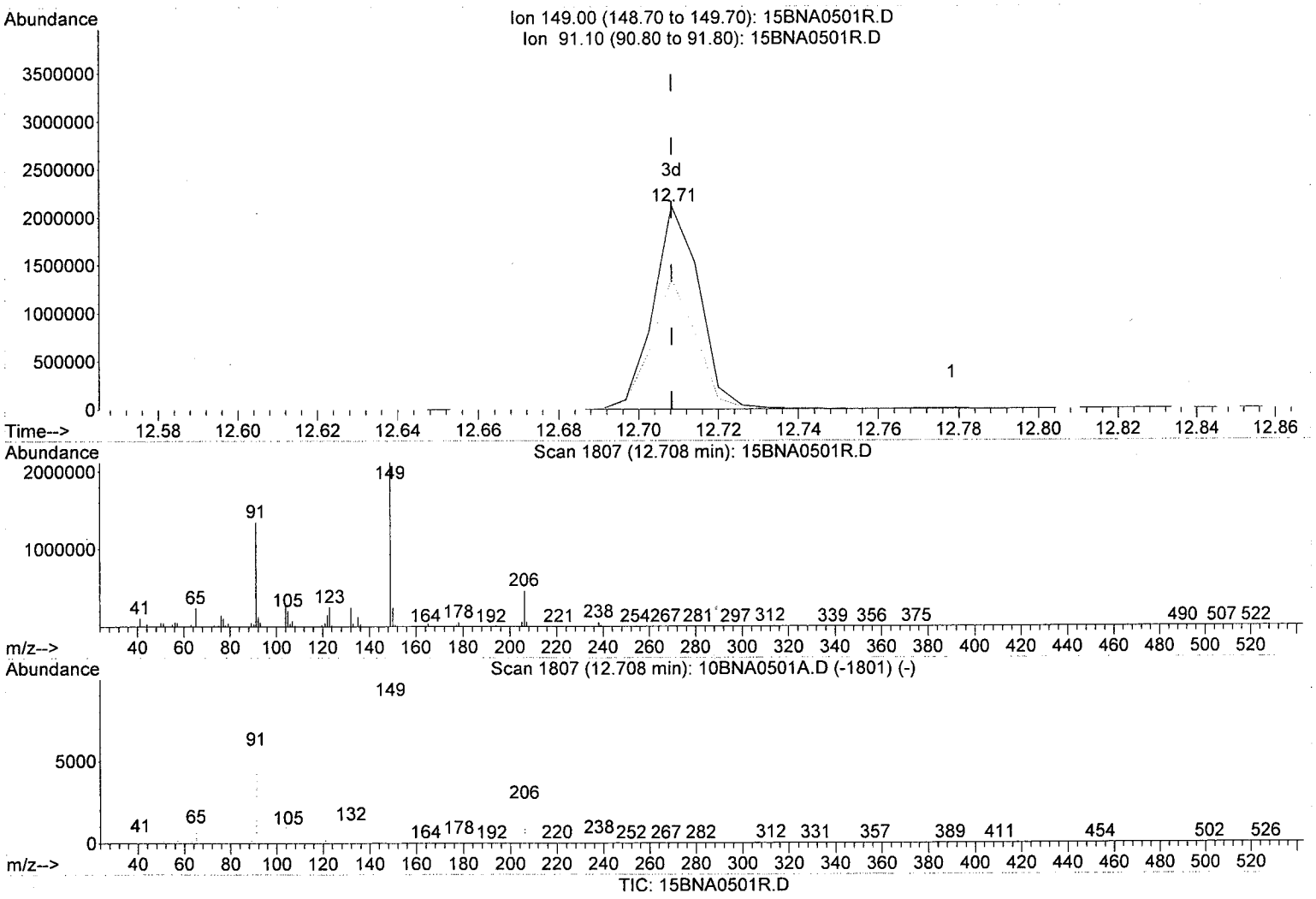
Jab 5/10/12

00927

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : 15BNA0501R.D
Acq On : 1 May 2012 15:23
Operator : DMC
Sample : 15BNA0501R
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 01 15:41:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:12:31 2012
Response via : Initial Calibration



TIC: 15BNA0501R.D

(82) Butyl Benzyl Phthalate

12.71min (-0.000) 16.98ug/l m

response 1691410

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	0.42#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

Analyst: C Date: 5/10

Reviewed By: JWS Date: 5/10/12

00928

INITIAL CALIBRATION DATA
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2E31003

SDG: KNM050712

Project: KNM

Calibration Date: 05/18/12 08:17

Instrument: 308

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.5	0.9752073	1	0.8651434	2	0.8002604	5	1.072428	10	0.9505465	15	0.9178962
Acenaphthylene	0.5	1.498567	1	1.325953	2	1.225311	5	1.663877	10	1.49269	15	1.469691
Anthracene	0.5	0.9249927	1	0.7588348	2	0.6828801	5	0.9358888	10	0.8396329	15	0.8583889
Benzo(a)anthracene	0.5	1.26448	1	0.9946688	2	0.8996587	5	1.158942	10	1.082968	15	1.091956
Benzo(a)pyrene	0.5	0.9372231	1	0.7793471	2	0.6995772	5	0.9491242	10	0.8959136	15	0.8987578
Benzo(b)fluoranthene	0.5	1.072106	1	0.7949558	2	0.7119199	5	1.0473	10	0.949561	15	0.9536962
Benzo(g,h,i)perylene	0.5	0.786371	1	0.6639488	2	0.6260156	5	0.823819	10	0.767311	15	0.7454758
Benzo(k)fluoranthene	0.5	0.9803413	1	0.9323259	2	0.8186368	5	1.066848	10	0.9693558	15	1.011089
Chrysene	0.5	1.356503	1	1.057231	2	0.9314102	5	1.198489	10	1.069112	15	1.087897
Dibenz(a,h)anthracene	0.5	0.7106487	1	0.5974091	2	0.5493124	5	0.7592654	10	0.7251121	15	0.7159364
Fluoranthene	0.5	0.9477054	1	0.6910683	2	0.6061938	5	0.7871806	10	0.7311499	15	0.7316558
Fluorene	0.5	1.011586	1	0.868146	2	0.825594	5	1.127682	10	1.009993	15	0.9956208
Indeno(1,2,3-cd)pyrene	0.5	0.8448402	1	0.7319348	2	0.6483334	5	0.8813396	10	0.8153385	15	0.8141566
2-Methylnaphthalene	0.5	0.568313	1	0.5055418	2	0.4661755	5	0.6178705	10	0.5611573	15	0.5594523
Naphthalene	0.5	0.8666294	1	0.8273747	2	0.7368386	5	0.9592373	10	0.8647279	15	0.8489841
Phenanthrene	0.5	1.036819	1	0.8108304	2	0.7312746	5	0.9360955	10	0.8467939	15	0.8468757
Pyrene	0.5	1.633455	1	1.296623	2	1.146926	5	1.643465	10	1.531761	15	1.567435
Nitrobenzene-d5	1	0.3002881	2.01	0.3139191	4.02	0.3059065	10	0.3869578	20.1	0.3421322	30.2	0.3562355
2-Fluorobiphenyl	1	1.098424	2	1.137263	4	1.091755	10	1.306418	20	1.108552	30	1.127897
o-Terphenyl	1.01	0.5032815	2.02	0.4683637	4.04	0.4607	10.1	0.5495901	20.2	0.4657784	30.3	0.4967435

INITIAL CALIBRATION DATA (Continued)

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2E31003

SDG: KNM050712

Project: KNM

Calibration Date: 05/18/12 08:17

Instrument: 308

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	20	0.9629128	25	0.9466238								
Acenaphthylene	20	1.522057	25	1.504704								
Anthracene	20	0.8824465	25	0.9073294								
Benzo(a)anthracene	20	1.103816	25	1.127								
Benzo(a)pyrene	20	0.9531594	25	0.9468333								
Benzo(b)fluoranthene	20	1.057473	25	1.018636								
Benzo(g,h,i)perylene	20	0.7798144	25	0.78503								
Benzo(k)fluoranthene	20	0.9920616	25	1.02015								
Chrysene	20	1.106296	25	1.089102								
Dibenz(a,h)anthracene	20	0.7578448	25	0.7591057								
Fluoranthene	20	0.7568299	25	0.7911188								
Fluorene	20	1.0456	25	1.063857								
Indeno(1,2,3-cd)pyrene	20	0.8231223	25	0.8425236								
2-Methylnaphthalene	20	0.5671761	25	0.5636522								
Naphthalene	20	0.8664924	25	0.8730255								
Phenanthrene	20	0.8685796	25	0.8983562								
Pyrene	20	1.617749	25	1.580616								
Nitrobenzene-d5	40.2	0.355238	50.2	0.3620545								
2-Fluorobiphenyl	40	1.166813	50	1.187183								
o-Terphenyl	40.4	0.5012557	50.5	0.5266599								

INITIAL CALIBRATION DATA (Continued)

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2E31003

SDG: KNM050712

Project: KNM

Calibration Date: 05/18/12 08:17

Instrument: 308

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Acenaphthene	0.9363773	8.55986	14.723	4.939324E-02			CCC (30)	
Acenaphthylene	1.462856	9.063299	14.30213	3.527577E-02			15	
Anthracene	0.8487993	10.32337	18.17875	3.057478E-02			15	
Benzo(a)anthracene	1.090436	9.933228	21.6115	8.817901E-03			15	
Benzo(a)pyrene	0.882492	10.58761	23.27538	1.303846E-02			CCC (30)	
Benzo(b)fluoranthene	0.950706	13.8503	22.843	9.725334E-03			15	
Benzo(g,h,i)perylene	0.7472232	9.037663	25.5775	4.405787E-02			15	
Benzo(k)fluoranthene	0.973851	7.604303	22.878	1.649184E-02			15	
Chrysene	1.112005	11.05841	21.65	1.043741E-02			15	
Dibenz(a,h)anthracene	0.6968293	11.4422	25.098	0.0268173			15	
Fluoranthene	0.7553628	12.93467	19.92725	8.00045E-03			CCC (30)	
Fluorene	0.9935098	10.07819	15.96275	3.870463E-02			15	
Indeno(1,2,3-cd)pyrene	0.8001986	9.332795	25.0645	1.423582E-02			15	
2-Methylnaphthalene	0.5511673	8.294264	12.19775	4.559672E-02			15	
Naphthalene	0.8554137	7.167293	10.58275	4.455707E-02			15	
Phenanthrene	0.8719531	10.33001	18.08525	2.793969E-02			15	
Pyrene	1.502254	12.07398	20.2155	1.767073E-02			15	
Nitrobenzene-d5	0.3403415	9.02924	8.966125	0.1001528			15	
2-Fluorobiphenyl	1.153038	6.086771	13.10875	5.160126E-02			15	
o-Terphenyl	0.4965466	6.283324	18.78375	1.507047E-02			15	

Compound List Report 308

Method Path : C:\msdchem\1\METHODS\
Method File : 051812bna.M
Title : 8270/625 BNA
Last Update : Fri May 18 14:55:28 2012
Response Via : Initial Calibration

Total Cpnds : 99

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	7.810	1.000	A	2	A	B
2		N-Nitroso-dimethylamine	74	3.497	0.448	A	1	A	L
3		Pyridine	79	3.515	0.450	A	1	A	L
4	S	2-Fluorophenol	112	5.432	0.696	A	1	A	B
5		Aniline	93	7.175	0.919	A	1	A	B
6		Benzaldehyde	105	6.977	0.893	A	2	A	B
7	S	Phenol-d6	99	7.111	0.910	A	1	A	L
8	C	Phenol	94	7.134	0.913	A	1	A	L
9		Bis(2-chloroethyl)ether	93	7.321	0.937	A	0	A	B
10		2-Chlorophenol	128	7.391	0.946	A	2	A	B
11		1,3-Dichlorobenzene	146	7.688	0.984	A	1	A	R
12	C	1,4-Dichlorobenzene	146	7.839	1.004	A	1	A	R
13		1,2-Dichlorobenzene	146	8.143	1.043	A	1	A	R
14		Bis(2-chloroisipropyl)ether	45	8.416	1.078	A	1	A	B
15		Benzyl Alcohol	108	8.113	1.039	A	1	A	B
16		2-Methylphenol	108	8.352	1.069	A	2	A	L
17		Acetophenone	105	8.661	1.109	A	2	A	B
18		Hexachloroethane	119	8.842	1.132	A	2	A	B
19		4-Methylphenol	107	8.690	1.113	A	2	A	B
20	P	N-Nitroso-di-n-propylamine	70	8.696	1.113	A	1	A	L
21	I	Naphthalene-d8	136	10.538	1.000	A	1	A	B
22	S	Nitrobenzene-d5	82	8.970	0.851	A	2	A	B
23		Nitrobenzene	77	9.005	0.855	A	2	A	B
24	S	Decafluorobiphenyl	334	9.180	0.871	A	1	A	B
25		Isophorone	82	9.553	0.907	A	1	A	B
26		2-Chloroaniline	127	9.629	0.914	A	2	A	B
27	C	2-Nitrophenol	139	9.699	0.920	A	2	A	L
28		2,4-Dimethylphenol	107	9.844	0.934	A	1	A	B
29		Bis(2-chlorethoxy)methane	93	10.078	0.956	A	1	A	B
30	C	2,4-Dichlorophenol	162	10.235	0.971	A	2	A	B
31		Benzoic Acid	105	10.101	0.959	L	2	A	L
32		1,2,4-Trichlorobenzene	180	10.422	0.989	A	1	A	B
33		Naphthalene	128	10.585	1.004	A	1	A	B
34		4-Chloroaniline	127	10.748	1.020	A	1	A	L
35		2,6-Dichlorophenol	162	10.748	1.020	A	2	A	B
36	C	Hexachlorobutadiene	225	10.911	1.035	A	2	A	B
37		Caprolactam	55	11.535	1.095	L	2	A	L
38		1,2-Bis(2-chloroethoxy)ethane	63	11.774	1.117	A	2	A	B
39	C	4-Chloro-3-methylphenol	107	11.925	1.132	A	2	A	B
40		2-Methylnaphthalene	142	12.199	1.158	A	2	A	R
41		1-Methylnaphthalene	142	12.421	1.179	A	2	A	R
42		1,3 Dinitrobenzene	168	14.134	1.341	L	0	A	B
43	I	Acenaphthene-d10	164	14.647	1.000	A	2	A	B
44		1,2,4,5-Tetrachlorobenzene	216	12.596	0.860	A	2	A	B
45	P	Hexachlorocyclopentadiene	237	12.590	0.860	L	2	A	B
46	C	2,4,6-Trichlorophenol	196	12.881	0.879	A	2	A	R
47		2,4,5-Trichlorophenol	196	12.951	0.884	A	2	A	R
48	S	2-Fluorobiphenyl	172	13.114	0.895	A	2	A	B
49		2-Chloronaphthalene	162	13.336	0.910	A	1	A	B
50		1,1'-Biphenyl	154	13.330	0.910	A	2	A	B
51		2-Nitroaniline	138	13.610	0.929	L	2	A	B
52		Acenaphthylene	152	14.303	0.977	A	1	A	B
53		2,6-Dinitrotoluene	165	14.233	0.972	L	2	A	B
54		Dimethyl Phthalate	163	14.134	0.965	A	1	A	B

55		3-Nitroaniline	138	14.595	0.996	L	2	A	B
56	C	Acenaphthene	153	14.729	1.006	A	2	A	B
57	P	2,4-Dinitrophenol	184	14.857	1.014	L	2	A	B
58	P	Dibenzofuran	168	15.149	1.034	A	1	A	B
59		4-Nitrophenol	65	15.061	1.028	L	2	A	B
60		2,4-Dinitrotoluene	165	15.178	1.036	L	2	A	B
61		2,3,5,6-Tetrachlorophenol	232	15.358	1.049	L	2	A	R
62		2,3,4,6-Tetrachlorophenol	232	15.457	1.055	L	2	A	R
63		Fluorene	166	15.965	1.090	A	2	A	B
64		Diethyl Phthalate	149	15.854	1.082	L	1	A	B
65		4-Chlorophenyl Phenyl Ether	204	16.034	1.095	A	2	A	B
66		4-Nitroaniline	138	16.046	1.096	A	2	A	B
67	I	Phenanthrene-d10	188	18.040	1.000	A	2	A	B
68		4,6-Dinitro-2-methylphenol	198	16.134	0.894	L	2	A	B
69	C	N-Nitroso-diphenylamine	169	16.326	0.905	A	2	A	B
70		1,2-Diphenylhydrazine	182	16.408	0.910	A	1	A	B
71	S	2,4,6-Tribromophenol	330	16.536	0.917	A	2	A	B
72		4-Bromophenyl Phenyl Ether	248	17.189	0.953	A	1	A	B
73		Hexachlorobenzene	284	17.253	0.956	A	2	A	B
74		Atrazine	200	17.632	0.977	A	1	A	B
75	C	Pentachlorophenol	266	17.690	0.981	L	2	A	B
76		Phenanthrene	178	18.086	1.003	A	1	A	R
77		Anthracene	178	18.179	1.008	A	1	A	R
78		Carbazole	167	18.494	1.025	L	2	A	B
79	S	o-Terphenyl	230	18.786	1.041	A	2	A	B
80		Di-n-butyl Phthalate	149	19.153	1.062	A	1	A	B
81	C	Fluoroanthene	202	19.928	1.105	A	1	A	R
82	I	Chrysene-d12	240	21.624	1.000	A	2	A	B
83		Benzidine	184	19.922	0.921	A	1	A	L
84		Pyrene	202	20.214	0.935	A	1	A	R
85		Butyl Benzyl Phthalate	149	21.035	0.973	L	1	A	B
86		Bis(2-ethylhexyl) adipate	129	21.129	0.977	L	2	A	B
87		Benzo(a)anthracene	228	21.613	0.999	A	2	A	R
88		3,3'-Dichlorobenzidine	252	21.595	0.999	A	1	A	B
89		Chrysene	228	21.653	1.001	A	1	A	R
90		Bis(2-ethylhexyl)phthalate	149	21.653	1.001	L	1	A	B
91		Dicyclohexyl Phthalate	149	21.677	1.002	A	2	A	B
92	C	Di-n-octyl Phthalate	149	22.353	1.034	L	1	A	B
93	I	Perylene-d12	264	23.349	1.000	A	2	A	B
94		Benzo(b)fluoroanthene	252	22.842	0.978	A	2	A	R
95		Benzo(k)fluoranthene	252	22.877	0.980	A	1	A	R
96	C	Benzo(a)pyrene	252	23.279	0.997	A	1	A	R
97		Indeno(1,2,3-cd)pyrene	276	25.063	1.073	A	1	A	B
98		Dibenz(a,h)anthracene	278	25.098	1.075	A	1	A	B
99		Benzo(g,h,i)Perylene	276	25.582	1.096	A	1	A	R

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

051812bna.M Fri May 18 15:27:15 2012

Response Factor Report 308

Method Path : C:\msdchem\1\METHODS\
Method File : 051812bna.M
Title : 8270/625 BNA
Last Update : Fri May 18 14:55:28 2012
Response Via : Initial Calibration

Calibration Files
2 =05bna0518.D 3 =1bna0518.D 4 =2bna0518.D 5 =5bna0518.D 6 =10bna0518.D 7 =15bna0518a.D 8 =20bna0518.D
9 =25bna0518.D

		Compound	2	3	4	5	6	7	8	9	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		N-Nitroso-dime...	0.649	0.706	0.658	0.873	0.746	0.766	0.786	0.792	0.747	10.01
3)		Pyridine	1.825	1.553	1.314	1.649	1.412	1.509	1.526	1.545	1.542	9.87
4)	S	2-Fluorophenol	1.008	1.160	1.119	1.430	1.214	1.294	1.293	1.322	1.230	10.79
5)		Aniline	1.761	1.375	1.289	1.944	1.787	1.785	1.790	1.829	1.695	13.69
6)		Benzaldehyde	0.781	0.700	0.645	0.956	0.944	0.812	0.733	0.683	0.782	14.88
7)	S	Phenol-d6	1.309	1.268	1.265	1.651	1.397	1.495	1.481	1.521	1.423	9.67
8)	C	Phenol	1.607	1.378	1.330	1.745	1.588	1.601	1.625	1.647	1.565	8.91
9)		Bis(2-chloroet...	1.273	1.151	1.080	1.426	1.308	1.279	1.288	1.283	1.261	8.28
10)		2-Chlorophenol	1.133	0.999	1.019	1.356	1.243	1.232	1.252	1.256	1.186	10.52
11)		1,3-Dichlorobe...	1.502	1.366	1.210	1.654	1.463	1.460	1.475	1.462	1.449	8.65
12)	C	1,4-Dichlorobe...	1.411	1.317	1.203	1.601	1.423	1.385	1.431	1.408	1.397	8.02
13)		1,2-Dichlorobe...	1.391	1.283	1.186	1.522	1.382	1.362	1.376	1.392	1.362	7.09
14)		Bis(2-chlorois...	1.913	1.833	1.679	2.278	2.045	1.987	1.989	2.005	1.966	8.79
15)		Benzyl Alcohol	0.714	0.654	0.630	0.870	0.806	0.806	0.819	0.831	0.766	11.52
16)		2-Methylphenol	1.000	0.913	0.863	1.164	1.059	1.052	1.064	1.081	1.024	9.43
17)		Acetophenone	1.575	1.480	1.403	1.874	1.731	1.687	1.717	1.740	1.651	9.33
18)		Hexachloroethane	0.490	0.468	0.458	0.569	0.534	0.527	0.538	0.542	0.516	7.58
19)		4-Methylphenol	1.211	1.080	0.961	1.326	1.208	1.220	1.245	1.246	1.187	9.58
20)	P	N-Nitroso-di-n...	0.845	0.805	0.723	1.012	0.939	0.906	0.935	0.945	0.889	10.42
21)	I	Naphthalene-d8	----------ISTD----------									
22)	S	Nitrobenzene-d5	0.300	0.315	0.307	0.387	0.344	0.359	0.357	0.364	0.342	9.00
23)		Nitrobenzene	0.354	0.327	0.310	0.400	0.369	0.357	0.362	0.364	0.355	7.64
24)	S	Decafluorobiph...	0.220	0.230	0.226	0.271	0.244	0.255	0.253	0.264	0.245	7.65
25)		Isophorone	0.442	0.449	0.432	0.576	0.538	0.533	0.548	0.555	0.509	11.41
26)		2-Chloroaniline	0.344	0.327	0.295	0.395	0.367	0.362	0.368	0.370	0.354	8.69
27)	C	2-Nitrophenol	0.126	0.121	0.117	0.165	0.155	0.158	0.160	0.162	0.145	13.96
28)		2,4-Dimethylph...	0.263	0.251	0.230	0.311	0.289	0.281	0.284	0.287	0.274	9.25
29)		Bis(2-chloreth...	0.291	0.274	0.248	0.324	0.292	0.294	0.302	0.300	0.291	7.62
30)	C	2,4-Dichloroph...	0.198	0.190	0.188	0.239	0.223	0.226	0.232	0.229	0.215	9.39
31)		Benzoic Acid	0.034	0.040	0.063	0.150	0.176	0.213	0.215	0.220	0.139	58.30
32)		1,2,4-Trichlor...	0.289	0.261	0.242	0.305	0.282	0.276	0.279	0.282	0.277	6.75
33)		Naphthalene	0.867	0.827	0.737	0.959	0.865	0.849	0.866	0.873	0.855	7.17
34)		4-Chloroaniline	0.291	0.250	0.240	0.332	0.328	0.319	0.320	0.324	0.301	12.10
35)		2,6-Dichloroph...	0.220	0.200	0.179	0.250	0.231	0.231	0.232	0.235	0.222	10.18
36)	C	Hexachlorobuta...	0.162	0.161	0.148	0.196	0.176	0.174	0.175	0.177	0.171	8.38
37)		Caprolactam	0.066	0.050	0.050	0.091	0.103	0.104	0.107	0.110	0.085	30.17

Method Path : C:\msdchem\1\METHODS\
Method File : 051812bna.M
Title : 8270/625 BNA

38)		1,2-Bis(2-chlo...	0.215	0.195	0.186	0.248	0.237	0.235			0.219	11.46
39)	C	4-Chloro-3-met...	0.204	0.174	0.163	0.242	0.226	0.238	0.237	0.236	0.215	14.54
40)		2-Methylnaphth...	0.568	0.506	0.466	0.618	0.561	0.559	0.567	0.564	0.551	8.29
41)		1-Methylnaphth...	0.545	0.489	0.443	0.604	0.554	0.540	0.552	0.552	0.535	9.03
42)		1,3 Dinitroben...	0.064	0.044	0.045	0.082	0.083	0.087	0.093	0.092	0.074	27.21
43)	I	Acenaphthene-d10	----------ISTD----------									
44)		1,2,4,5-Tetrac...	0.517	0.521	0.437	0.582	0.507	0.481	0.502	0.512	0.507	8.00
45)	P	Hexachlorocycl...	0.217	0.239	0.209	0.327	0.311	0.301	0.330	0.335	0.284	18.76
46)	C	2,4,6-Trichlor...	0.280	0.231	0.238	0.326	0.297	0.294	0.303	0.307	0.285	11.87
47)		2,4,5-Trichlor...	0.297	0.244	0.216	0.318	0.290	0.298	0.308	0.310	0.285	12.62
48)	S	2-Fluorobiphenyl	1.098	1.137	1.092	1.306	1.109	1.128	1.167	1.187	1.153	6.09
49)		2-Chloronaphth...	1.065	1.015	0.901	1.115	0.983	0.940	0.986	0.986	0.999	6.75
50)		1,1'-Biphenyl	1.232	1.213	1.094	1.392	1.255	1.193	1.256	1.273	1.238	6.74
51)		2-Nitroaniline	0.215	0.161	0.148	0.266	0.264	0.264	0.285	0.279	0.235	23.03
52)		Acenaphthylene	1.499	1.326	1.225	1.664	1.493	1.470	1.522	1.505	1.463	9.06
53)		2,6-Dinitrotol...	0.183	0.169	0.172	0.252	0.223	0.225	0.236	0.242	0.213	15.53
54)		Dimethyl Phtha...	0.982	0.831	0.763	1.047	0.951	0.988	1.038	1.051	0.956	11.07
55)		3-Nitroaniline	0.160	0.113	0.110	0.166	0.186	0.161	0.166	0.164	0.153	17.54
56)	C	Acenaphthene	0.975	0.865	0.800	1.072	0.951	0.918	0.963	0.947	0.936	8.56
57)	P	2,4-Dinitrophenol		0.022	0.032	0.092	0.112	0.133	0.145	0.153	0.098	53.94
58)	P	Dibenzofuran	1.385	1.195	1.110	1.445	1.291	1.256	1.315	1.317	1.289	8.13
59)		4-Nitrophenol	0.128	0.101	0.092	0.162	0.150	0.153	0.169	0.170	0.141	21.65
60)		2,4-Dinitrotol...	0.224	0.161	0.175	0.292	0.287	0.281	0.309	0.302	0.254	23.22
61)		2,3,5,6-Tetrac...	0.205	0.156	0.153	0.239	0.231	0.231	0.252	0.251	0.215	18.59
62)		2,3,4,6-Tetrac...	0.202	0.162	0.152	0.235	0.225	0.225	0.240	0.248	0.211	17.11
63)		Fluorene	1.012	0.868	0.826	1.128	1.010	0.996	1.046	1.064	0.994	10.08
64)		Diethyl Phthalate	0.949	0.763	0.751	1.105	1.084	1.053	1.090	1.098	0.987	15.21
65)		4-Chlorophenyl...	0.522	0.479	0.431	0.554	0.494	0.479	0.496	0.499	0.494	7.16
66)		4-Nitroaniline	0.149	0.106	0.083	0.108	0.111	0.081	0.078	0.075	0.099	25.06
67)		Phenanthrene-d10	----------ISTD----------									
68)		4,6-Dinitro-2-...	0.048	0.043	0.040	0.088	0.095	0.106	0.114	0.121	0.082	40.51
69)	C	N-Nitroso-diph...	0.618	0.462	0.412	0.546	0.504	0.529	0.520	0.530	0.515	11.74
70)		1,2-Diphenylhy...	0.171	0.151	0.142	0.176	0.159	0.172	0.168	0.174	0.164	7.46
71)	S	2,4,6-Tribromo...	0.060	0.049	0.052	0.067	0.061	0.070	0.072	0.075	0.063	14.72
72)		4-Bromophenyl ...	0.175	0.160	0.148	0.178	0.166	0.172	0.171	0.177	0.168	6.04
73)		Hexachlorobenzene	0.223	0.192	0.171	0.205	0.180	0.181	0.180	0.189	0.190	8.77
74)		Atrazine	0.154	0.120	0.111	0.157	0.155	0.144	0.153	0.158	0.144	12.62
75)	C	Pentachlorophenol	0.099	0.057	0.052	0.088	0.095	0.094	0.099	0.107	0.086	23.68
76)		Phenanthrene	1.037	0.811	0.731	0.936	0.847	0.847	0.869	0.898	0.872	10.33
77)		Anthracene	0.925	0.759	0.683	0.936	0.840	0.858	0.882	0.907	0.849	10.32
78)		Carbazole	0.774	0.549	0.482	0.652	0.545	0.661	0.571	0.592	0.603	14.98
79)	S	o-Terphenyl	0.508	0.473	0.465	0.555	0.470	0.502	0.506	0.532	0.502	6.28
80)		Di-n-butyl Pht...	0.829	0.733	0.664	0.960	0.922	0.883	0.958	0.971	0.865	13.20
81)	C	Fluoroanthene	0.948	0.691	0.606	0.787	0.731	0.732	0.757	0.791	0.755	12.93
82)	I	Chrysene-d12	----------ISTD----------									

9935

Method Path : C:\msdchem\1\METHODS\
Method File : 051812bna.M
Title : 8270/625 BNA

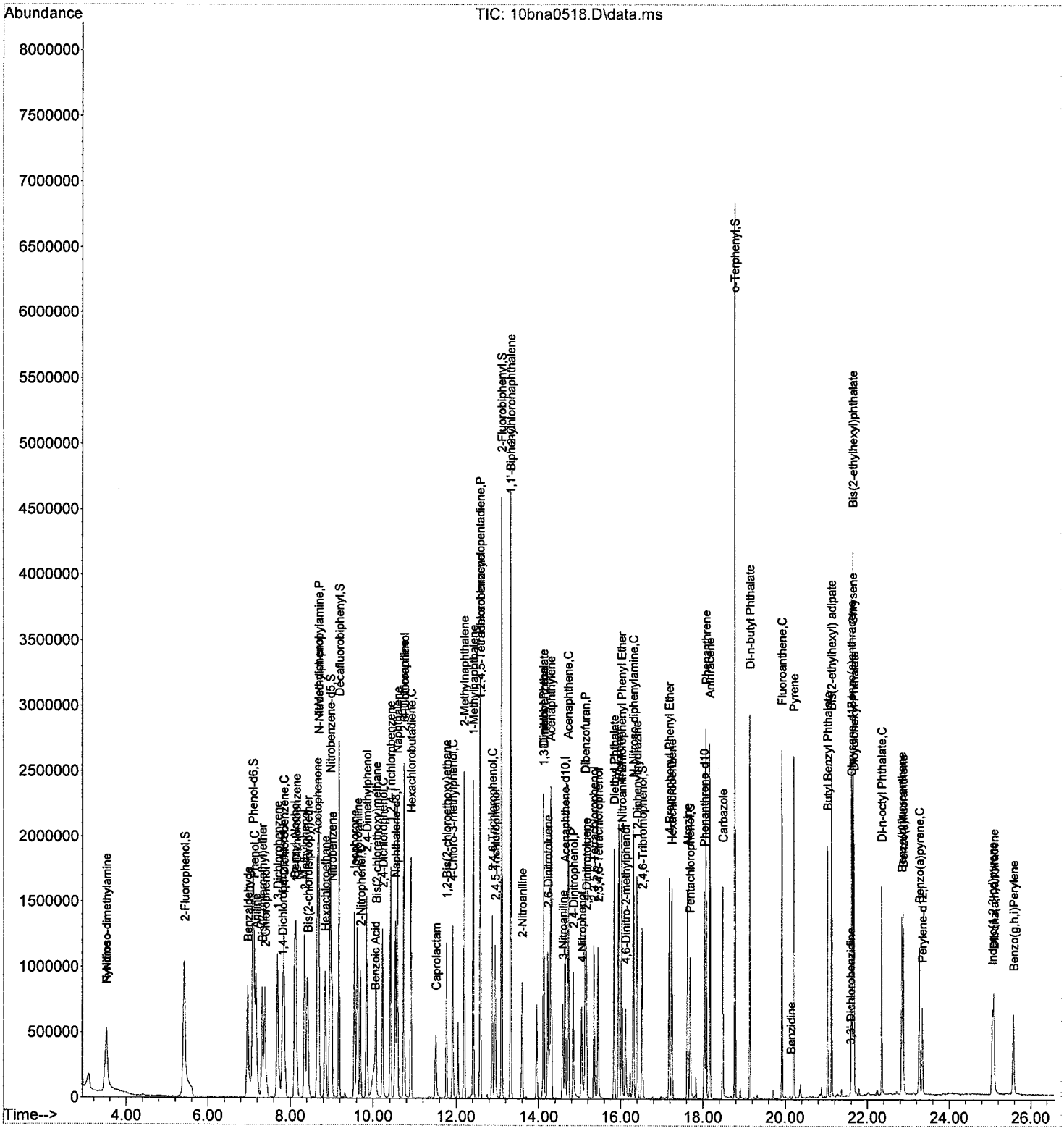
83)		Benzidine	0.084	0.032	0.009	0.001	0.003	0.000	0.000	0.209	0.042	173.55
84)		Pyrene	1.633	1.297	1.147	1.643	1.532	1.567	1.618	1.581	1.502	12.07
85)		Butyl Benzyl P...	0.493	0.405	0.361	0.568	0.570	0.566	0.586	0.578	0.516	16.99
86)		Bis(2-ethylhex...	0.373	0.301	0.301	0.475	0.482	0.441	0.481	0.462	0.414	18.91
87)		Benzo(a)anthra...	1.264	0.995	0.900	1.159	1.083	1.092	1.104	1.127	1.090	9.93
88)		3,3'-Dichlorob...	0.043	0.008	0.001	0.002	0.008	0.000	0.000	0.000	0.008#	187.43
89)		Chrysene	1.357	1.057	0.931	1.198	1.069	1.088	1.106	1.089	1.112	11.06
90)		Bis(2-ethylhex...	0.618	0.555	0.493	0.751	0.765	0.705	0.740	0.835	0.683	17.08
91)		Dicyclohexyl P...	0.863	0.722	0.701	0.984	0.897	0.892	0.906	0.799	0.845	11.51
92)	C	Di-n-octyl Pht...	0.849	0.716	0.683	1.027	1.067	1.006	1.056	1.047	0.931	17.07
93)	I	Perylene-d12	----------ISTD----------									
94)		Benzo(b)fluoro...	1.072	0.795	0.712	1.047	0.950	0.954	1.057	1.019	0.951	13.85
95)		Benzo(k)fluora...	0.980	0.932	0.819	1.067	0.969	1.011	0.992	1.020	0.974	7.60
96)	C	Benzo(a)pyrene	0.937	0.779	0.700	0.949	0.896	0.899	0.953	0.947	0.882	10.59
97)		Indeno(1,2,3-c...	0.874	0.757	0.688	0.953	0.909	0.904	0.939	0.954	0.872	11.25
98)		Dibenz(a,h)ant...	0.711	0.597	0.549	0.759	0.725	0.716	0.758	0.759	0.697	11.44
99)		Benzo(g,h,i)Pe...	0.786	0.664	0.626	0.824	0.767	0.745	0.780	0.785	0.747	9.04

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 10bna0518.D
Acq On : 18 May 2012 9:45
Operator : JLB
Sample : 10bna0518 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 11:06:07 2012
Quant Method : C:\msdchem\1\METHODS\051712bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:03 2012
Response via : Initial Calibration



00937

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 10bna0518.D
Acq On : 18 May 2012 9:45
Operator : JLB
Sample : 10bna0518 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 11:06:07 2012
Quant Method : C:\msdchem\1\METHODS\051712bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:03 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.811	152	251960	5.00	ng/uL	#	0.00
21) Naphthalene-d8	10.538	136	1026583	5.00	ng/uL		0.00
43) Acenaphthene-d10	14.648	164	540093	5.00	ng/uL		0.00
67) Phenanthrene-d10	18.040	188	883336	5.00	ng/uL		0.00
82) Chrysene-d12	21.619	240	409265	5.00	ng/uL	#	0.00
93) Perylene-d12	23.350	264	367166	5.00	ng/uL	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.432	112	1223375	19.70	ng/uL		0.00
7) Phenol-d6	7.099	99	1407826	19.35	ng/uL		0.00
22) Nitrobenzene-d5	8.965	82	1411933	20.91	ng/uL		0.00
24) Decafluorobiphenyl	9.180	334	1001092	20.84	ng/uL		0.00
48) 2-Fluorobiphenyl	13.109	172	2394884	19.68	ng/uL		0.00
71) 2,4,6-Tribromophenol	16.536	330	216889	18.69	ng/uL		0.00
79) o-Terphenyl	18.786	230	1662213	19.27	ng/uL		0.00
Target Compounds							Qvalue
2) N-Nitroso-dimethylamine	3.515	74	376152	9.52	ng/uL		83
3) Pyridine	3.515	79	711445	9.22	ng/uL		85
5) Aniline	7.175	93	900736	10.12	ng/uL		98
6) Benzaldehyde	6.977	105	475634	12.31	ng/uL	#	1
8) Phenol	7.129	94	800036	9.99	ng/uL	#	55
9) Bis(2-chloroethyl)ether	7.321	93	658894	10.17	ng/uL		100
10) 2-Chlorophenol	7.391	128	626492	10.49	ng/uL	#	33
11) 1,3-Dichlorobenzene	7.688	146	737098	10.12	ng/uL		94
12) 1,4-Dichlorobenzene	7.846	146	716906	10.34	ng/uL		94
13) 1,2-Dichlorobenzene	8.143	146	696504	10.23	ng/uL		93
14) Bis(2-chloroisipropyl)...	8.423	45	1030631	10.64	ng/uL		92
15) Benzyl Alcohol	8.108	108	405941	10.99	ng/uL		94
16) 2-Methylphenol	8.347	108	533453	10.39	ng/uL	#	90
17) Acetophenone	8.656	105	872513	10.71	ng/uL	#	79
18) Hexachloroethane	8.842	119	268931	10.52	ng/uL		94
19) 4-Methylphenol	8.685	107	608534	10.39	ng/uL	#	38
20) N-Nitroso-di-n-propyla...	8.691	70	473365	11.18	ng/uL	#	64
23) Nitrobenzene	9.005	77	758246	10.65	ng/uL	#	1
25) Isophorone	9.547	82	1104766	10.93	ng/uL		96
26) 2-Chloroaniline	9.623	127	754440	10.44	ng/uL		95
27) 2-Nitrophenol	9.699	139	317603	9.92	ng/uL	#	93
28) 2,4-Dimethylphenol	9.845	107	592554	10.85	ng/uL	#	67
29) Bis(2-chlorethoxy)methane	10.078	93	600476	10.13	ng/uL		91
30) 2,4-Dichlorophenol	10.235	162	458541	10.65	ng/uL		100
31) Benzoic Acid	10.055	105	361367	19.39	ng/uL		93
32) 1,2,4-Trichlorobenzene	10.422	180	578066	10.39	ng/uL		100
33) Naphthalene	10.585	128	1775430	9.92	ng/uL		96
34) 4-Chloroaniline	10.742	127	673000	10.39	ng/uL	#	76
35) 2,6-Dichlorophenol	10.748	162	473882	10.80	ng/uL	#	86
36) Hexachlorobutadiene	10.911	225	361130	10.58	ng/uL		96
37) Caprolactam	11.518	55	211817	11.59	ng/uL		93
38) 1,2-Bis(2-chloroethoxy...	11.768	63	487161	10.99	ng/uL	#	100
39) 4-Chloro-3-methylphenol	11.920	107	463784	10.10	ng/uL		94
40) 2-Methylnaphthalene	12.200	142	1152149	10.28	ng/uL	#	96
41) 1-Methylnaphthalene	12.421	142	1138058	10.41	ng/uL		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 10bna0518.D
Acq On : 18 May 2012 9:45
Operator : JLB
Sample : 10bna0518 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 11:06:07 2012
Quant Method : C:\msdchem\1\METHODS\051712bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:03 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.135	168	170849	10.04	ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.596	216	547987	10.16	ng/uL	97
45) Hexachlorocyclopentadiene	12.590	237	335526	10.04	ng/uL	98
46) 2,4,6-Trichlorophenol	12.881	196	321096	10.48	ng/uL	95
47) 2,4,5-Trichlorophenol	12.951	196	313568	10.20	ng/uL	100
49) 2-Chloronaphthalene	13.330	162	1062190	10.06	ng/uL	93
50) 1,1'-Biphenyl	13.324	154	1355837	10.17	ng/uL	98
51) 2-Nitroaniline	13.604	138	285063	9.96	ng/uL	88
52) Acenaphthylene	14.304	152	1612383	10.31	ng/uL#	85
53) 2,6-Dinitrotoluene	14.234	165	241371	9.97	ng/uL	91
54) Dimethyl Phthalate	14.129	163	1027497	10.34	ng/uL	92
55) 3-Nitroaniline	14.589	138	200723	11.02	ng/uL#	1
56) Acenaphthene	14.723	153	1026767	10.14	ng/uL	99
57) 2,4-Dinitrophenol	14.852	184	241899	18.25	ng/uL	100
58) Dibenzofuran	15.149	168	1395059	10.17	ng/uL	96
59) 4-Nitrophenol	15.056	65	324522	21.78	ng/uL#	81
60) 2,4-Dinitrotoluene	15.172	165	310296	10.07	ng/uL#	71
61) 2,3,5,6-Tetrachlorophenol	15.353	232	249629	10.39	ng/uL	96
62) 2,3,4,6-Tetrachlorophenol	15.458	232	242721	10.27	ng/uL	96
63) Fluorene	15.965	166	1090980	10.42	ng/uL#	95
64) Diethyl Phthalate	15.848	149	1171315	11.55	ng/uL	96
65) 4-Chlorophenyl Phenyl ...	16.035	204	533253	10.35	ng/uL#	86
66) 4-Nitroaniline	16.041	138	119709	14.13	ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.128	198	167945	9.22	ng/uL	92
69) N-Nitroso-diphenylamine	16.320	169	890991	9.72	ng/uL	99
70) 1,2-Diphenylhydrazine	16.408	182	280399	9.61	ng/uL	91
72) 4-Bromophenyl Phenyl E...	17.189	248	294091	10.30	ng/uL	100
73) Hexachlorobenzene	17.253	284	318821	9.58	ng/uL	96
74) Atrazine	17.632	200	273541	10.54	ng/uL	99
75) Pentachlorophenol	17.690	266	167716	10.06	ng/uL	95
76) Phenanthrene	18.086	178	1496007	9.52	ng/uL	98
77) Anthracene	18.180	178	1483356	9.85	ng/uL	98
78) Carbazole	18.494	167	962089	9.42	ng/uL	99
80) Di-n-butyl Phthalate	19.153	149	1628418	9.99	ng/uL	100
81) Fluoroanthene	19.928	202	1291702	9.81	ng/uL#	86
83) Benzidine	20.138	184	2270	0.52	ng/uL#	83
84) Pyrene	20.214	202	1253792	10.75	ng/uL#	92
85) Butyl Benzyl Phthalate	21.036	149	466289	10.31	ng/uL	89
86) Bis(2-ethylhexyl) adipate	21.129	129	394507	10.52	ng/uL#	100
87) Benzo(a)anthracene	21.613	228	886442	10.45	ng/uL#	98
88) 3,3'-Dichlorobenzidine	21.589	252	6602	11.22	ng/uL	90
89) Chrysene	21.648	228	875100	9.63	ng/uL	97
90) Bis(2-ethylhexyl)phtha...	21.654	149	625773	10.15	ng/uL	99
91) Dicyclohexyl Phthalate	21.677	149	733966	10.27	ng/uL#	100
92) Di-n-octyl Phthalate	22.353	149	873449	10.83	ng/uL	100
94) Benzo(b)fluoroanthene	22.843	252	697293	9.64	ng/uL	96
95) Benzo(k)fluoranthene	22.878	252	711829	9.98	ng/uL#	90
96) Benzo(a)pyrene	23.274	252	657898	9.69	ng/uL#	91
97) Indeno(1,2,3-cd)pyrene	25.063	276	667379	10.02	ng/uL#	76
98) Dibenz(a,h)anthracene	25.098	278	532473	10.02	ng/uL	100
99) Benzo(g,h,i)Perylene	25.582	276	563461	10.71	ng/uL	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 10bna0518.D
Acq On : 18 May 2012 9:45
Operator : JLB
Sample : 10bna0518 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 11:06:07 2012
Quant Method : C:\msdchem\1\METHODS\051712bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:03 2012
Response via : Initial Calibration

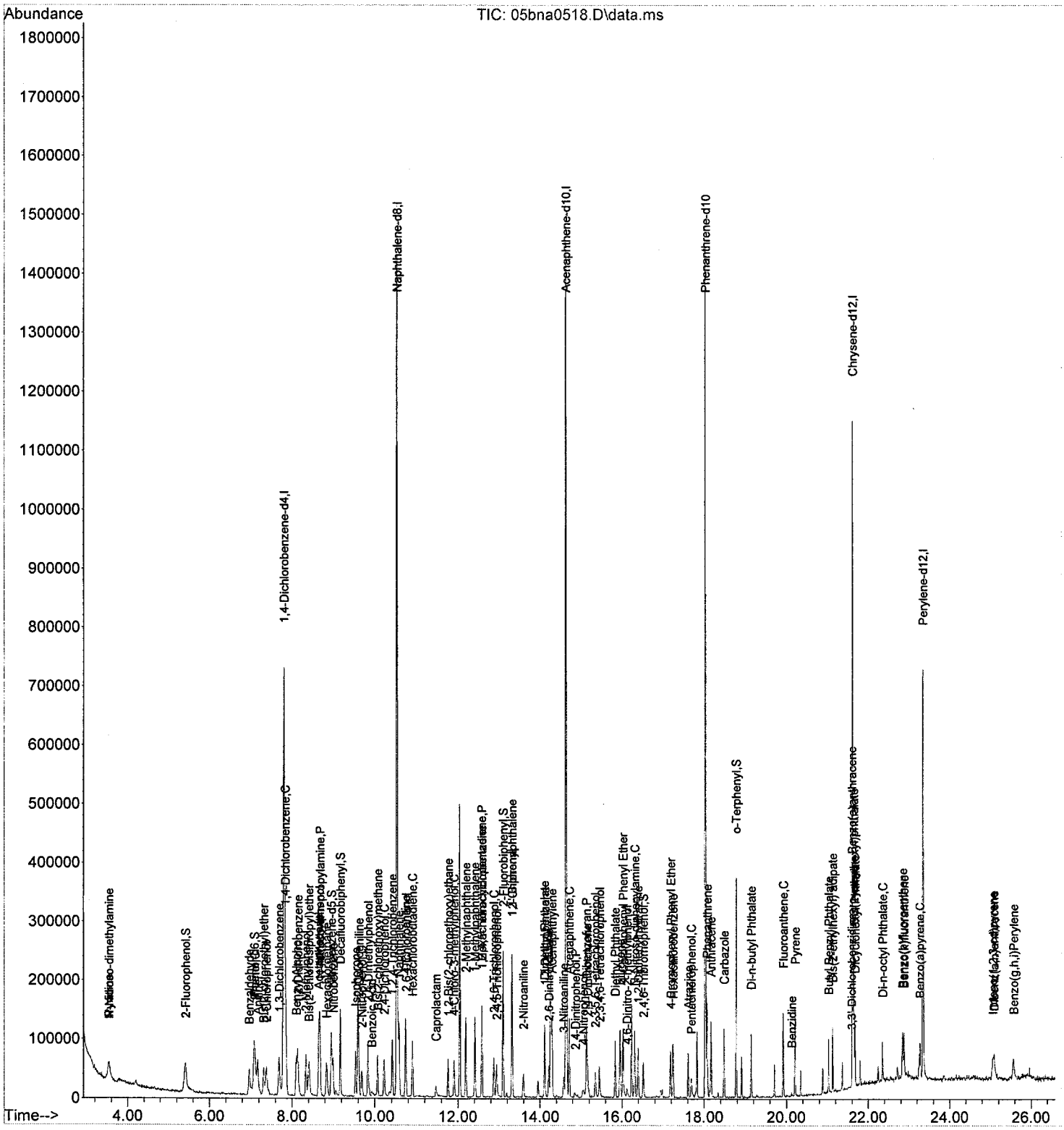
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 05bna0518.D
Acq On : 18 May 2012 10:20
Operator : JLB
Sample : 05bna0518 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 11:07:55 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:52 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 05bna0518.D
Acq On : 18 May 2012 10:20
Operator : JLB
Sample : 05bna0518 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 11:07:55 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:52 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.810	152	294803	5.00	ng/uL	# 0.00
21) Naphthalene-d8	10.532	136	1174089	5.00	ng/uL	0.00
43) Acenaphthene-d10	14.642	164	562424	5.00	ng/uL	0.00
67) Phenanthrene-d10	18.040	188	777098	5.00	ng/uL	0.00
82) Chrysene-d12	21.618	240	419026	5.00	ng/uL	# 0.00
93) Perylene-d12	23.349	264	405165	5.00	ng/uL	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.415	112	59450	0.82	ng/uL	-0.02
7) Phenol-d6	7.093	99	77172	0.91	ng/uL	0.00
22) Nitrobenzene-d5	8.959	82	70513	0.91	ng/uL	0.00
24) Decafluorobiphenyl	9.174	334	51585	0.93	ng/uL	0.00
48) 2-Fluorobiphenyl	13.103	172	123556	0.97	ng/uL	0.00
71) 2,4,6-Tribromophenol	16.524	330	9321	1.62	ng/uL	-0.01
79) o-Terphenyl	18.780	230	79002	1.04	ng/uL	0.00
Target Compounds						Qvalue
2) N-Nitroso-dimethylamine	3.544	74	19128	0.42	ng/uL	84
3) Pyridine	3.538	79	53815	0.45	ng/uL	87
5) Aniline	7.175	93	51923	0.52	ng/uL	99
6) Benzaldehyde	6.971	105	23029	0.51	ng/uL#	1
8) Phenol	7.105	94	47362	0.51	ng/uL#	18
9) Bis(2-chloroethyl)ether	7.315	93	37530	0.49	ng/uL	100
10) 2-Chlorophenol	7.379	128	33404	0.48	ng/uL#	69
11) 1,3-Dichlorobenzene	7.688	146	44284	0.52	ng/uL	99
12) 1,4-Dichlorobenzene	7.839	146	41587	0.51	ng/uL#	78
13) 1,2-Dichlorobenzene	8.143	146	41003	0.51	ng/uL	90
14) Bis(2-chloroisipropyl)...	8.411	45	56390	0.50	ng/uL	96
15) Benzyl Alcohol	8.102	108	21058	0.48	ng/uL	99
16) 2-Methylphenol	8.335	108	29493	0.49	ng/uL	89
17) Acetophenone	8.650	105	46438	0.49	ng/uL#	79
18) Hexachloroethane	8.842	119	14459	0.48	ng/uL	98
19) 4-Methylphenol	8.667	107	35712	0.52	ng/uL#	50
20) N-Nitroso-di-n-propyla...	8.685	70	24906	0.50	ng/uL#	69
23) Nitrobenzene	8.999	77	41517	0.51	ng/uL#	1
25) Isophorone	9.541	82	51946	0.45	ng/uL	96
26) 2-Chloroaniline	9.617	127	40420	0.49	ng/uL#	91
27) 2-Nitrophenol	9.687	139	14774	0.71	ng/uL#	94
28) 2,4-Dimethylphenol	9.839	107	30851	0.49	ng/uL	87
29) Bis(2-chlorethoxy)methane	10.072	93	34127	0.51	ng/uL	95
30) 2,4-Dichlorophenol	10.229	162	23273	0.47	ng/uL	96
31) Benzoic Acid	9.926	105	3944	2.48	ng/uL#	78
32) 1,2,4-Trichlorobenzene	10.422	180	33980	0.53	ng/uL	95
33) Naphthalene	10.579	128	101750	0.50	ng/uL	97
34) 4-Chloroaniline	10.736	127	34152	0.56	ng/uL#	79
35) 2,6-Dichlorophenol	10.748	162	25826	0.51	ng/uL	91
36) Hexachlorobutadiene	10.905	225	19045	0.49	ng/uL	90
37) Caprolactam	11.471	55	7776	0.50	ng/uL#	80
38) 1,2-Bis(2-chloroethoxy...	11.768	63	25277	0.50	ng/uL#	100
39) 4-Chloro-3-methylphenol	11.908	107	23894	0.63	ng/uL	94
40) 2-Methylnaphthalene	12.193	142	66725	0.52	ng/uL	94
41) 1-Methylnaphthalene	12.415	142	63942	0.51	ng/uL	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 05bna0518.D
Acq On : 18 May 2012 10:20
Operator : JLB
Sample : 05bna0518 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 11:07:55 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:52 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.123	168	7478	1.00 ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.590	216	29088	0.52 ng/uL	98
45) Hexachlorocyclopentadiene	12.584	237	12187	0.59 ng/uL	94
46) 2,4,6-Trichlorophenol	12.875	196	15767	0.54 ng/uL	92
47) 2,4,5-Trichlorophenol	12.945	196	16732	0.67 ng/uL	96
49) 2-Chloronaphthalene	13.324	162	59908	0.54 ng/uL	98
50) 1,1'-Biphenyl	13.318	154	69294	0.50 ng/uL	99
51) 2-Nitroaniline	13.598	138	12070	1.03 ng/uL	88
52) Acenaphthylene	14.298	152	84283	0.52 ng/uL#	86
53) 2,6-Dinitrotoluene	14.222	165	10287	0.72 ng/uL	93
54) Dimethyl Phthalate	14.117	163	55210	0.53 ng/uL	95
55) 3-Nitroaniline	14.577	138	9009	0.78 ng/uL#	1
56) Acenaphthene	14.717	153	54848	0.52 ng/uL	99
57) 2,4-Dinitrophenol	14.869	184	2741m	2.74 ng/uL	
58) Dibenzofuran	15.137	168	77911	0.54 ng/uL	94
59) 4-Nitrophenol	15.061	65	14446m	1.24 ng/uL	
60) 2,4-Dinitrotoluene	15.160	165	12611	0.80 ng/uL#	78
61) 2,3,5,6-Tetrachlorophenol	15.353	232	11527	0.78 ng/uL	96
62) 2,3,4,6-Tetrachlorophenol	15.458	232	11372	0.73 ng/uL	93
63) Fluorene	15.959	166	56894	0.52 ng/uL	94
64) Diethyl Phthalate	15.836	149	53398	0.50 ng/uL	99
65) 4-Chlorophenyl Phenyl ...	16.029	204	29358	0.55 ng/uL	90
66) 4-Nitroaniline	16.035	138	8372	Below Cal #	1
68) 4,6-Dinitro-2-methylph...	16.122	198	3724	1.29 ng/uL#	77
69) N-Nitroso-diphenylamine	16.314	169	47992	0.78 ng/uL	97
70) 1,2-Diphenylhydrazine	16.396	182	13265	0.52 ng/uL	90
72) 4-Bromophenyl Phenyl E...	17.189	248	13571	0.54 ng/uL	87
73) Hexachlorobenzene	17.247	284	17350	0.59 ng/uL#	92
74) Atrazine	17.620	200	11982	0.75 ng/uL	95
75) Pentachlorophenol	17.690	266	7662	1.20 ng/uL	94
76) Phenanthrene	18.080	178	80571	0.59 ng/uL	99
77) Anthracene	18.174	178	71881	0.54 ng/uL	97
78) Carbazole	18.488	167	60158	0.67 ng/uL	99
80) Di-n-butyl Phthalate	19.147	149	64452	0.82 ng/uL	99
81) Fluoroanthene	19.922	202	73646	0.64 ng/uL#	87
83) Benzidine	20.132	184	3539	0.79 ng/uL#	79
84) Pyrene	20.214	202	68446	0.57 ng/uL#	92
85) Butyl Benzyl Phthalate	21.030	149	20660	1.11 ng/uL	89
86) Bis(2-ethylhexyl) adipate	21.129	129	15627	1.14 ng/uL#	100
87) Benzo(a)anthracene	21.607	228	52985	0.61 ng/uL	98
88) 3,3'-Dichlorobenzidine	21.595	252	1782	2.89 ng/uL	86
89) Chrysene	21.648	228	56841	0.61 ng/uL	99
90) Bis(2-ethylhexyl)phtha...	21.653	149	25880	0.93 ng/uL	98
91) Dicyclohexyl Phthalate	21.677	149	36168	0.73 ng/uL#	100
92) Di-n-octyl Phthalate	22.353	149	35590	1.26 ng/uL	96
94) Benzo(b)fluoroanthene	22.842	252	43438	1.04 ng/uL#	96
95) Benzo(k)fluoranthene	22.877	252	39720	0.51 ng/uL	99
96) Benzo(a)pyrene	23.268	252	37973	0.94 ng/uL	95
97) Indeno(1,2,3-cd)pyrene	25.063	276	35401	0.98 ng/uL	91
98) Dibenz(a,h)anthracene	25.092	278	28793	0.97 ng/uL#	90
99) Benzo(g,h,i)Perylene	25.570	276	31861	0.55 ng/uL	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 05bna0518.D
Acq On : 18 May 2012 10:20
Operator : JLB
Sample : 05bna0518 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 11:07:55 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:52 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

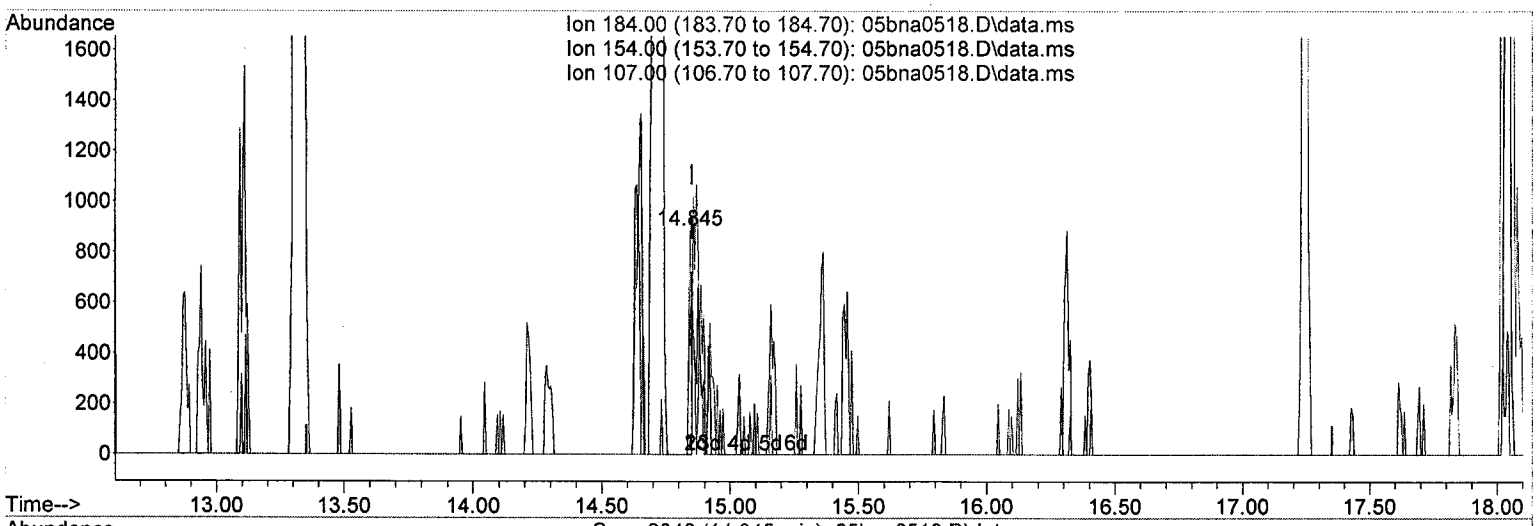
(#) = qualifier out of range (m) = manual integration (+) = signals summed

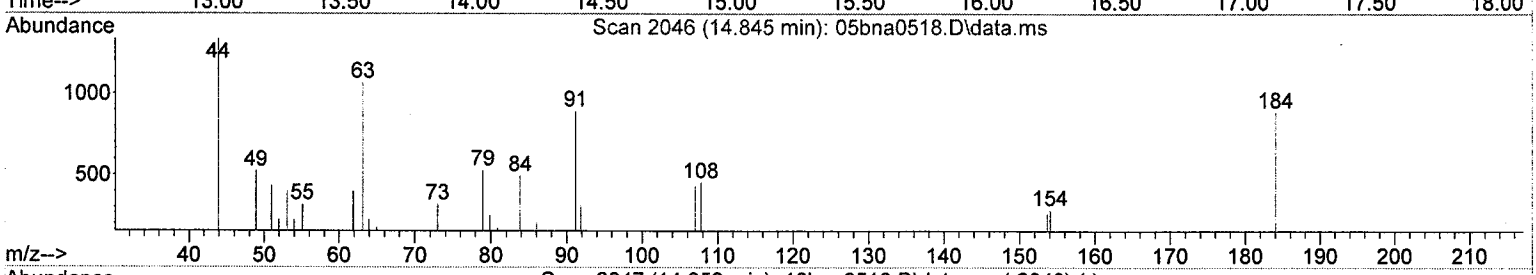
00944

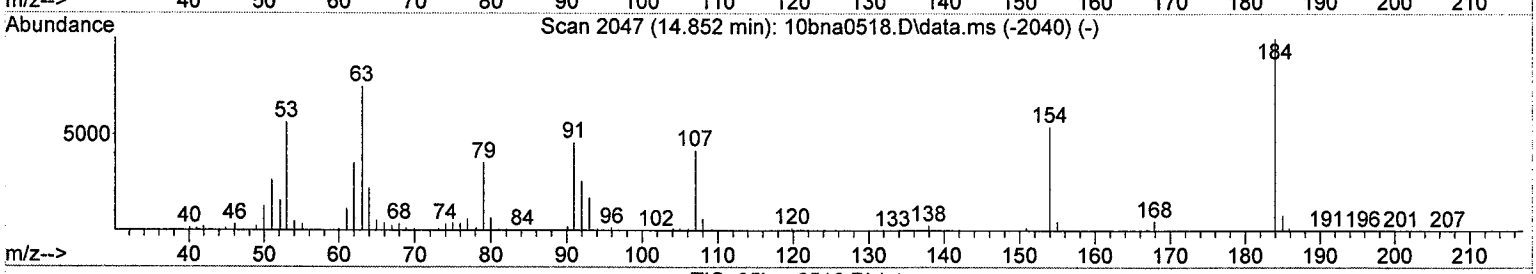
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 05bna0518.D
Acq On : 18 May 2012 10:20
Operator : JLB
Sample : 05bna0518 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 11:07:08 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:52 2012
Response via : Initial Calibration







TIC: 05bna0518.D\data.ms

(57) 2,4-Dinitrophenol (P)

14.845min (-0.006) 2.61 ng/uL

response 639

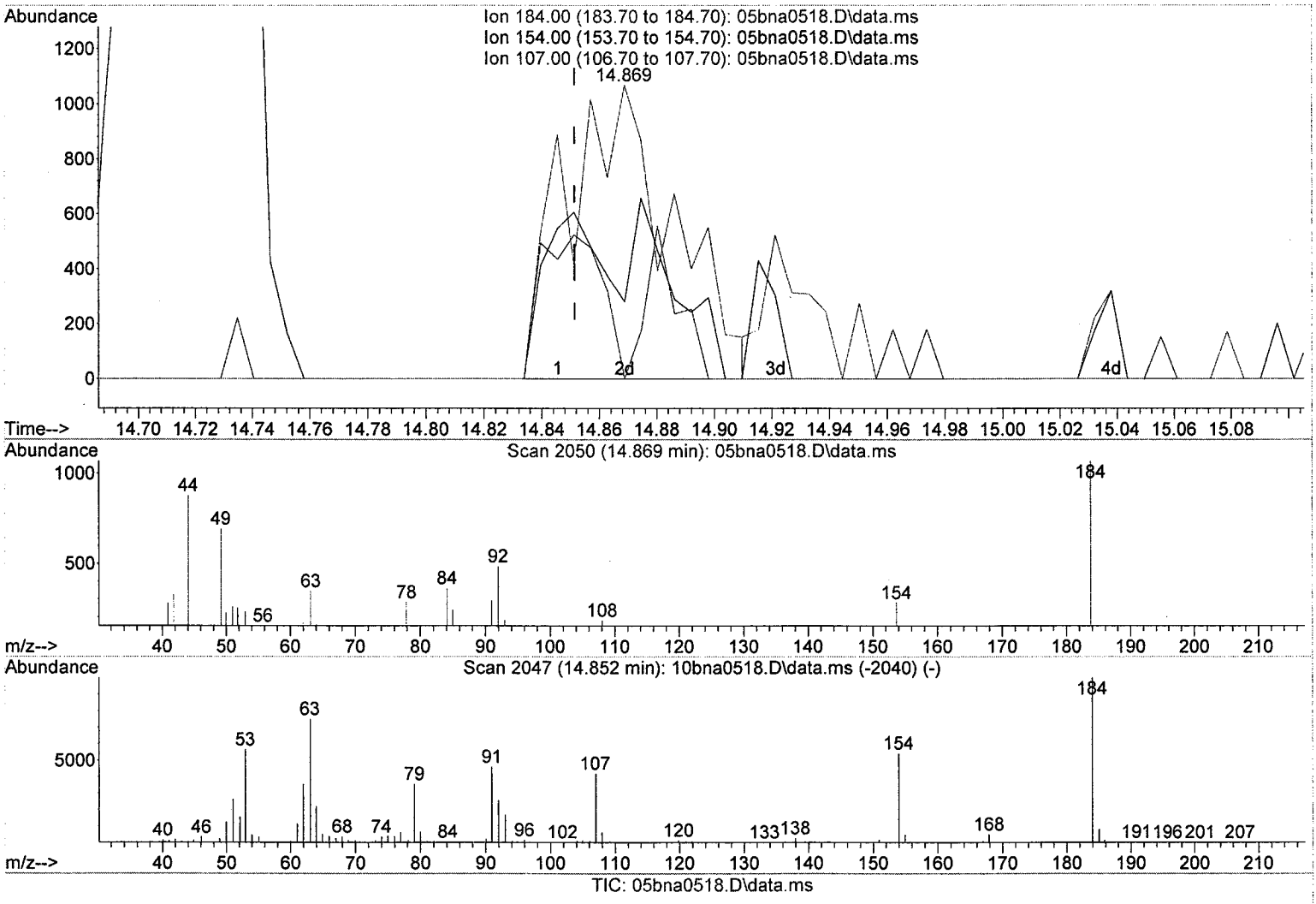
Ion	Exp%	Act%
184.00	100	100
154.00	57.50	0.00#
107.00	46.30	122.69#
0.00	0.00	0.00

051812bna.M Fri May 18 11:07:42 2012 00945 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 05bna0518.D
Acq On : 18 May 2012 10:20
Operator : JLB
Sample : 05bna0518 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 11:07:08 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:52 2012
Response via : Initial Calibration



TIC: 05bna0518.D\data.ms

(57) 2,4-Dinitrophenol (P)

14.869min (+0.017) 2.74 ng/uL m

response 2741

Ion	Exp%	Act%
184.00	100	100
154.00	57.50	0.00#
107.00	46.30	28.60#
0.00	0.00	0.00

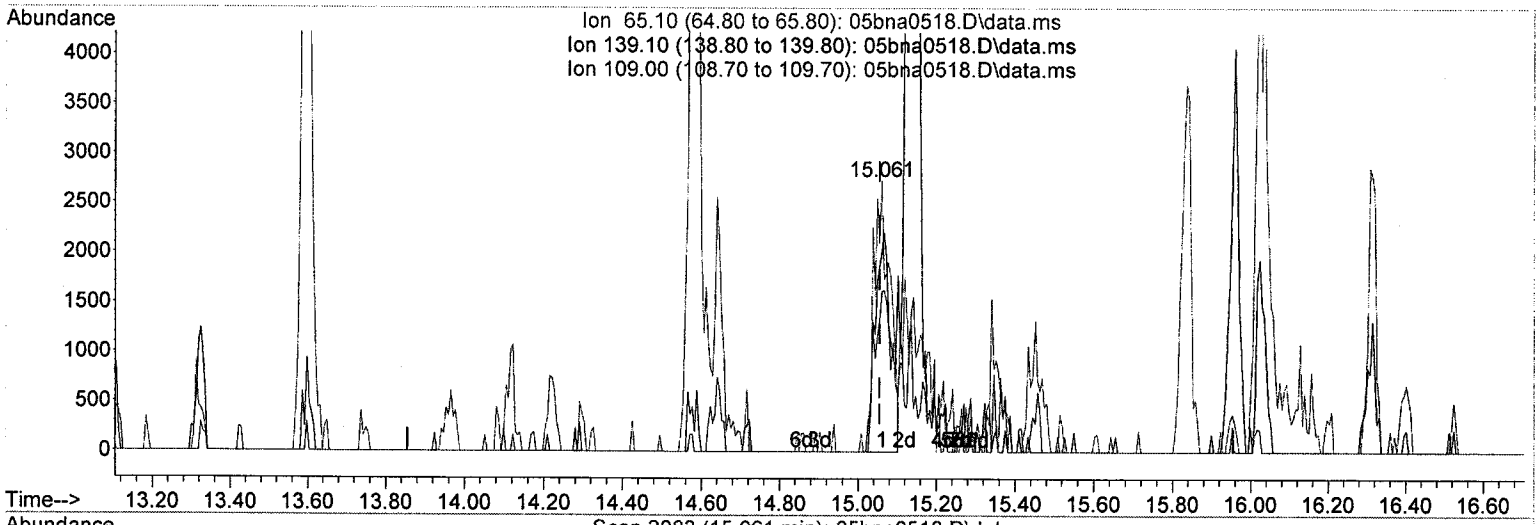
Manual Integration Explanation
Reason 1: Incorrect peak integrated by the software.
Flagged on Quantitation Report: Yes / No
Analyst: JWS Date: 5/24/12
Reviewed By: L Date: 5/24/12

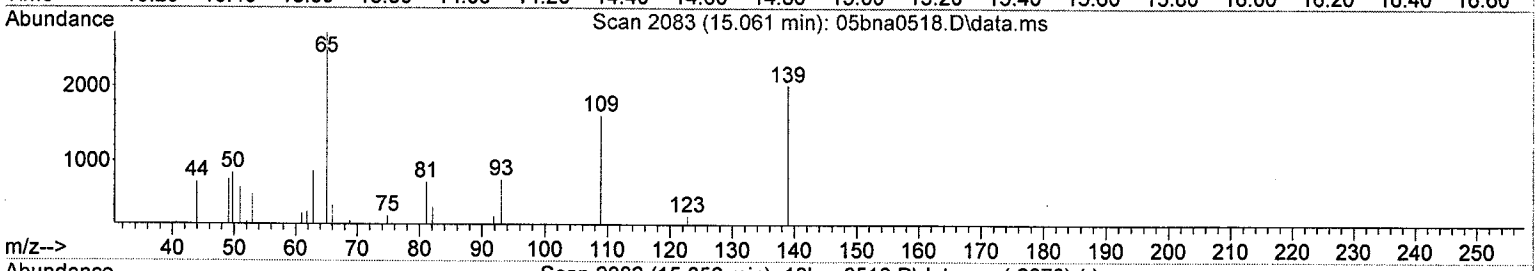
00946

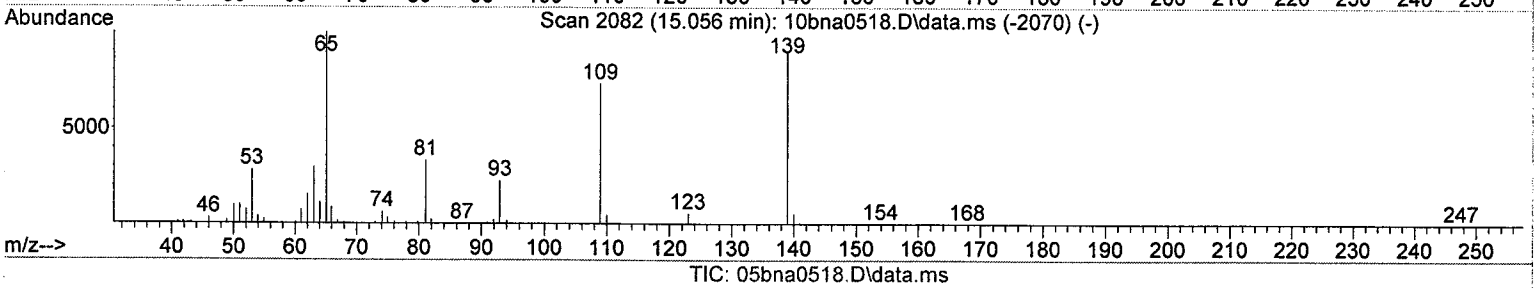
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 05bna0518.D
Acq On : 18 May 2012 10:20
Operator : JLB
Sample : 05bna0518 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 11:07:08 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:52 2012
Response via : Initial Calibration







TIC: 05bna0518.D\data.ms

(59) 4-Nitrophenol

15.061min (+0.006) 0.82 ng/uL

response 7658

Ion	Exp%	Act%
65.10	100	100
139.10	104.30	76.70#
109.00	63.30	66.75
0.00	0.00	0.00

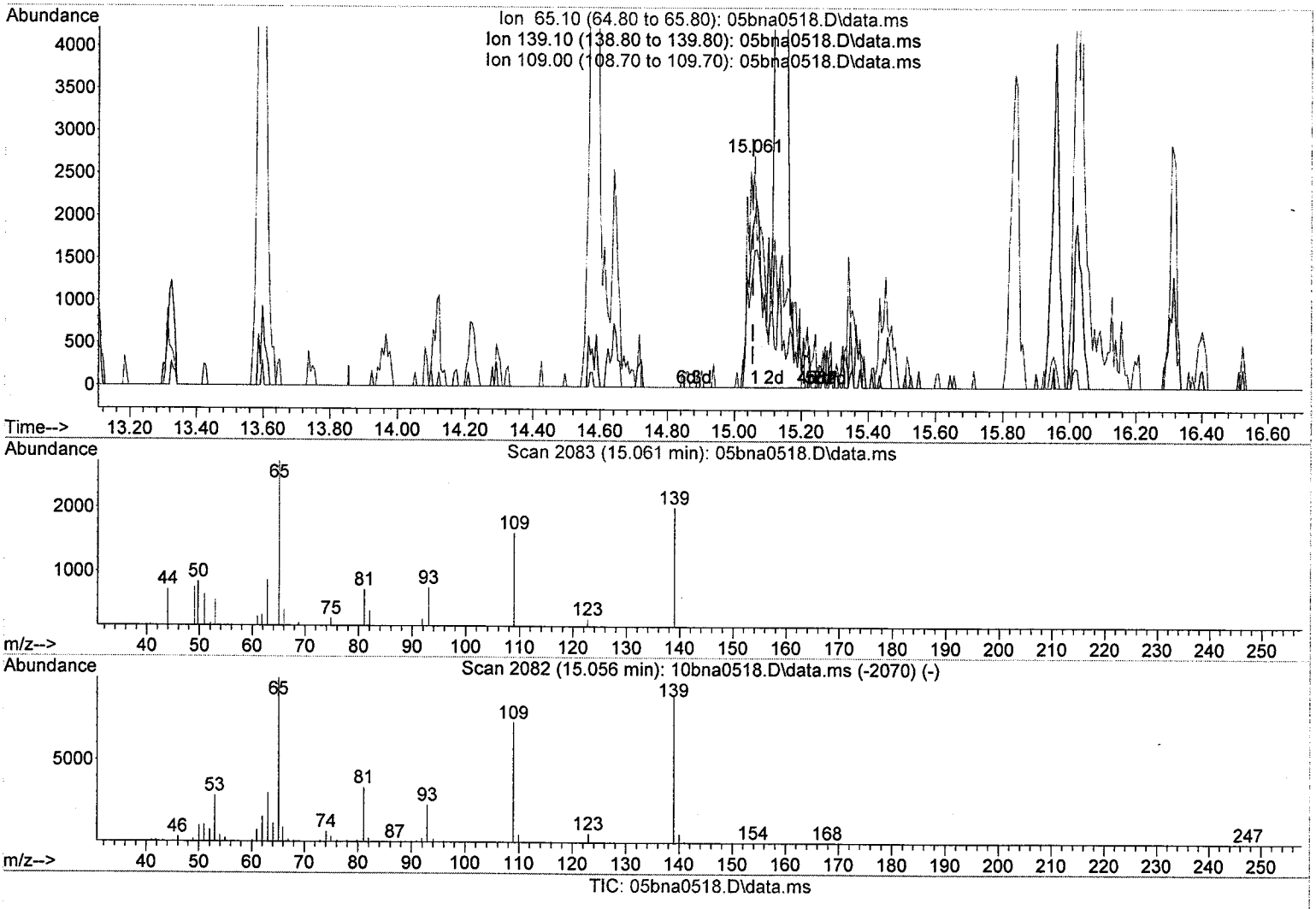
JLB 5/24/12

0.12 ug/L

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 05bna0518.D
Acq On : 18 May 2012 10:20
Operator : JLB
Sample : 05bna0518 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 11:07:08 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:06:52 2012
Response via : Initial Calibration



TIC: 05bna0518.D\data.ms

(59) 4-Nitrophenol

15.061min (+0.006) 1.24 ng/uL m

response 14446

Ion	Exp%	Act%
65.10	100	100
139.10	104.30	40.66#
109.00	63.30	35.39#
0.00	0.00	0.00

Manual Integration Explanation

Reason 3: Incorrect baseline drawn by the software.

Flagged on Quantitation Report: Yes / No

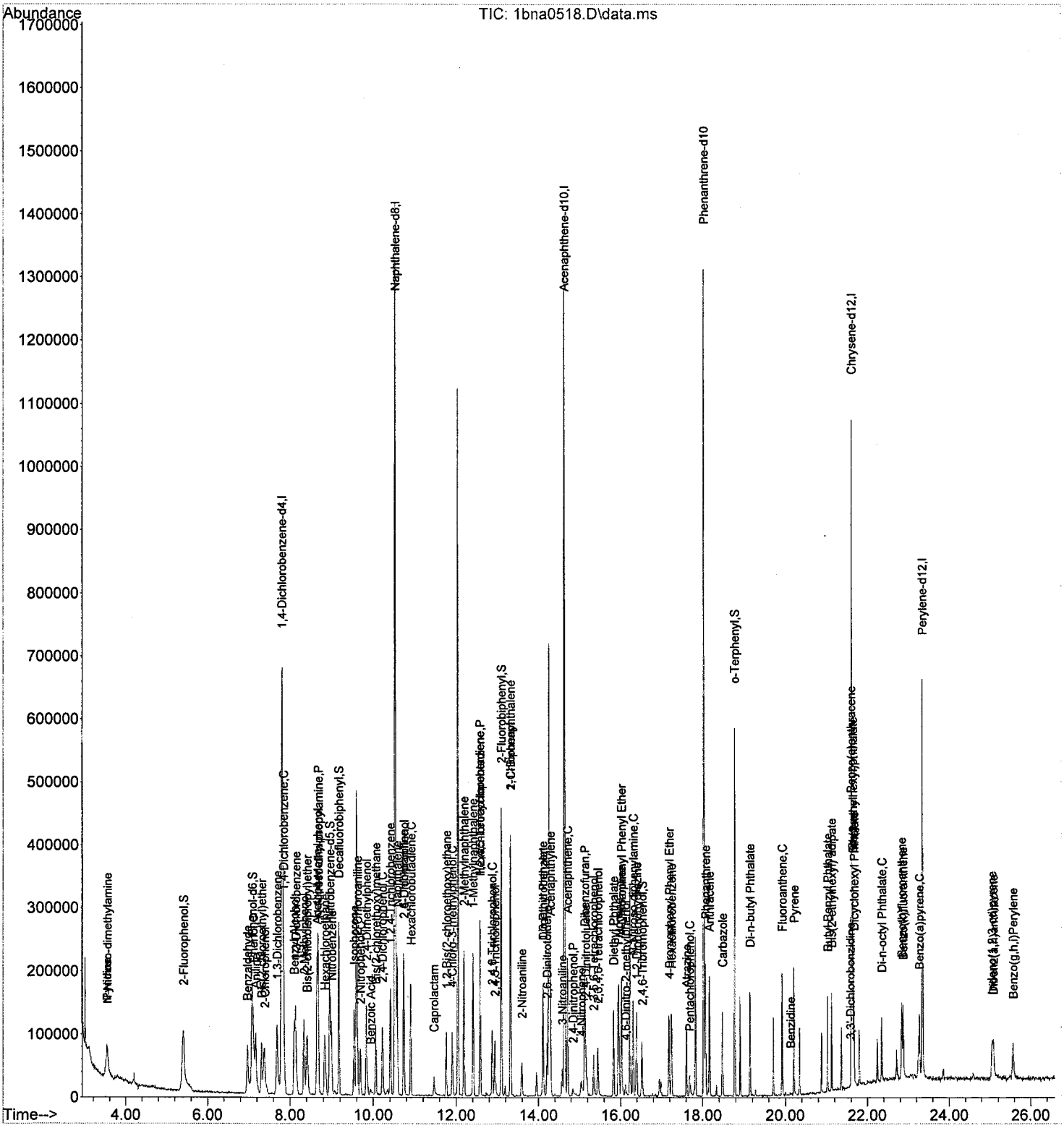
Analyst: JLB Date: 5/24/12

Reviewed By: [illegible] Date: 5/24/12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 1bna0518.D
Acq On : 18 May 2012 10:55
Operator : JLB
Sample : 1bna0518 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 11:36:02 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:09:03 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 1bna0518.D
Acq On : 18 May 2012 10:55
Operator : JLB
Sample : 1bna0518 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 11:36:02 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:09:03 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.805	152	279679	5.00	ng/uL	#	0.00
21) Naphthalene-d8	10.532	136	1069872	5.00	ng/uL		0.00
43) Acenaphthene-d10	14.642	164	504558	5.00	ng/uL		0.00
67) Phenanthrene-d10	18.040	188	688615	5.00	ng/uL		0.00
82) Chrysene-d12	21.618	240	389215	5.00	ng/uL	#	0.00
93) Perylene-d12	23.350	264	376392	5.00	ng/uL	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.415	112	129802	1.87	ng/uL		0.00
7) Phenol-d6	7.088	99	141803	1.76	ng/uL		0.00
22) Nitrobenzene-d5	8.959	82	135013	1.89	ng/uL		0.00
24) Decafluorobiphenyl	9.174	334	98462	1.94	ng/uL		0.00
48) 2-Fluorobiphenyl	13.103	172	229526	2.00	ng/uL		0.00
71) 2,4,6-Tribromophenol	16.530	330	13573	1.64	ng/uL		0.00
79) o-Terphenyl	18.780	230	130299	1.94	ng/uL		0.00
Target Compounds							Qvalue
2) N-Nitroso-dimethylamine	3.544	74	39465	0.94	ng/uL		83
3) Pyridine	3.532	79	86858	0.99	ng/uL		91
5) Aniline	7.169	93	76892	0.81	ng/uL		88
6) Benzaldehyde	6.971	105	39181	0.90	ng/uL#		1
8) Phenol	7.111	94	77104	0.87	ng/uL#		64
9) Bis(2-chloroethyl)ether	7.315	93	64367	0.90	ng/uL		100
10) 2-Chlorophenol	7.391	128	55887	0.84	ng/uL#		70
11) 1,3-Dichlorobenzene	7.688	146	76384	0.93	ng/uL		96
12) 1,4-Dichlorobenzene	7.845	146	73682	0.95	ng/uL#		86
13) 1,2-Dichlorobenzene	8.143	146	71743	0.94	ng/uL		96
14) Bis(2-chloroisipropyl)...	8.411	45	102540	0.95	ng/uL		93
15) Benzyl Alcohol	8.108	108	36598	0.87	ng/uL		96
16) 2-Methylphenol	8.341	108	51080	0.89	ng/uL#		88
17) Acetophenone	8.656	105	82798	0.91	ng/uL#		81
18) Hexachloroethane	8.842	119	26179	0.92	ng/uL		96
19) 4-Methylphenol	8.673	107	60412	0.92	ng/uL#		46
20) N-Nitroso-di-n-propyla...	8.685	70	45012	0.94	ng/uL#		66
23) Nitrobenzene	8.999	77	69871	0.94	ng/uL#		1
25) Isophorone	9.542	82	96114	0.91	ng/uL		100
26) 2-Chloroaniline	9.617	127	70050	0.93	ng/uL		93
27) 2-Nitrophenol	9.693	139	25993	0.85	ng/uL		91
28) 2,4-Dimethylphenol	9.839	107	53723	0.93	ng/uL		90
29) Bis(2-chlorethoxy)methane	10.066	93	58540	0.94	ng/uL		96
30) 2,4-Dichlorophenol	10.223	162	40615	0.90	ng/uL		98
31) Benzoic Acid	9.944	105	8599	0.62	ng/uL		91
32) 1,2,4-Trichlorobenzene	10.416	180	55942	0.96	ng/uL		99
33) Naphthalene	10.579	128	177037	0.95	ng/uL		96
34) 4-Chloroaniline	10.736	127	53547	0.84	ng/uL#		68
35) 2,6-Dichlorophenol	10.742	162	42831	0.92	ng/uL		91
36) Hexachlorobutadiene	10.911	225	34411	0.97	ng/uL		92
37) Caprolactam	11.465	55	10673	0.67	ng/uL		91
38) 1,2-Bis(2-chloroethoxy...	11.768	63	41641	0.90	ng/uL#		100
39) 4-Chloro-3-methylphenol	11.908	107	37171	0.84	ng/uL		97
40) 2-Methylnaphthalene	12.194	142	108173	0.92	ng/uL		97
41) 1-Methylnaphthalene	12.415	142	104615	0.91	ng/uL		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 1bna0518.D
Acq On : 18 May 2012 10:55
Operator : JLB
Sample : 1bna0518 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 11:36:02 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:09:03 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.117	168	9367	0.62 ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.584	216	52601	1.04 ng/uL	99
45) Hexachlorocyclopentadiene	12.584	237	24168	0.85 ng/uL	95
46) 2,4,6-Trichlorophenol	12.876	196	23265	0.85 ng/uL	94
47) 2,4,5-Trichlorophenol	12.945	196	24670	0.90 ng/uL	96
49) 2-Chloronaphthalene	13.324	162	102396	1.03 ng/uL	97
50) 1,1'-Biphenyl	13.324	154	122419	0.98 ng/uL	98
51) 2-Nitroaniline	13.598	138	16253	0.70 ng/uL	93
52) Acenaphthylene	14.298	152	133804	0.91 ng/uL#	83
53) 2,6-Dinitrotoluene	14.216	165	17063	0.83 ng/uL#	84
54) Dimethyl Phthalate	14.117	163	83855	0.89 ng/uL	93
55) 3-Nitroaniline	14.583	138	11415	0.75 ng/uL#	1
56) Acenaphthene	14.717	153	87303	0.92 ng/uL	98
57) 2,4-Dinitrophenol	14.851	184	4441	0.51 ng/uL#	76
58) Dibenzofuran	15.137	168	120581	0.94 ng/uL	91
59) 4-Nitrophenol	15.055	65	20293m	1.61 ng/uL	
60) 2,4-Dinitrotoluene	15.160	165	16293	0.64 ng/uL#	72
61) 2,3,5,6-Tetrachlorophenol	15.353	232	15760	0.77 ng/uL	95
62) 2,3,4,6-Tetrachlorophenol	15.452	232	16358	0.79 ng/uL	95
63) Fluorene	15.953	166	87606	0.89 ng/uL#	96
64) Diethyl Phthalate	15.836	149	77017	0.79 ng/uL	97
65) 4-Chlorophenyl Phenyl ...	16.029	204	48331	0.99 ng/uL	92
66) 4-Nitroaniline	16.029	138	10721	1.07 ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.128	198	5967	0.55 ng/uL#	85
69) N-Nitroso-diphenylamine	16.314	169	63613	0.91 ng/uL	97
70) 1,2-Diphenylhydrazine	16.402	182	20784	0.92 ng/uL	92
72) 4-Bromophenyl Phenyl E...	17.189	248	22012	0.99 ng/uL	99
73) Hexachlorobenzene	17.247	284	26401	1.03 ng/uL	94
74) Atrazine	17.614	200	16552	0.86 ng/uL	96
75) Pentachlorophenol	17.690	266	7864	0.68 ng/uL	99
76) Phenanthrene	18.080	178	111670	0.92 ng/uL	98
77) Anthracene	18.174	178	104509	0.90 ng/uL#	95
78) Carbazole	18.488	167	75664	0.94 ng/uL	98
80) Di-n-butyl Phthalate	19.147	149	101003	0.88 ng/uL	99
81) Fluoroanthene	19.928	202	95176	0.92 ng/uL#	87
83) Benzidine	20.132	184	2464	0.60 ng/uL#	71
84) Pyrene	20.214	202	100933	0.90 ng/uL	94
85) Butyl Benzyl Phthalate	21.030	149	31528	0.84 ng/uL	91
86) Bis(2-ethylhexyl) adipate	21.129	129	23412	0.76 ng/uL#	100
87) Benzo(a)anthracene	21.607	228	77428	0.94 ng/uL#	96
88) 3,3'-Dichlorobenzidine	21.589	252	615	0.90 ng/uL#	41
89) Chrysene	21.648	228	82298	0.96 ng/uL	97
90) Bis(2-ethylhexyl)phtha...	21.653	149	43174	0.83 ng/uL	99
91) Dicyclohexyl Phthalate	21.677	149	56182	0.87 ng/uL#	100
92) Di-n-octyl Phthalate	22.353	149	55755	0.84 ng/uL#	94
94) Benzo(b)fluoroanthene	22.837	252	59843	0.85 ng/uL#	93
95) Benzo(k)fluoranthene	22.872	252	70184	0.97 ng/uL	92
96) Benzo(a)pyrene	23.274	252	58668	0.90 ng/uL	97
97) Indeno(1,2,3-cd)pyrene	25.057	276	56976	0.92 ng/uL	90
98) Dibenz(a,h)anthracene	25.092	278	44972	0.89 ng/uL	96
99) Benzo(g,h,i)Perylene	25.570	276	49981	0.91 ng/uL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 1bna0518.D
Acq On : 18 May 2012 10:55
Operator : JLB
Sample : 1bna0518 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 11:36:02 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:09:03 2012
Response via : Initial Calibration

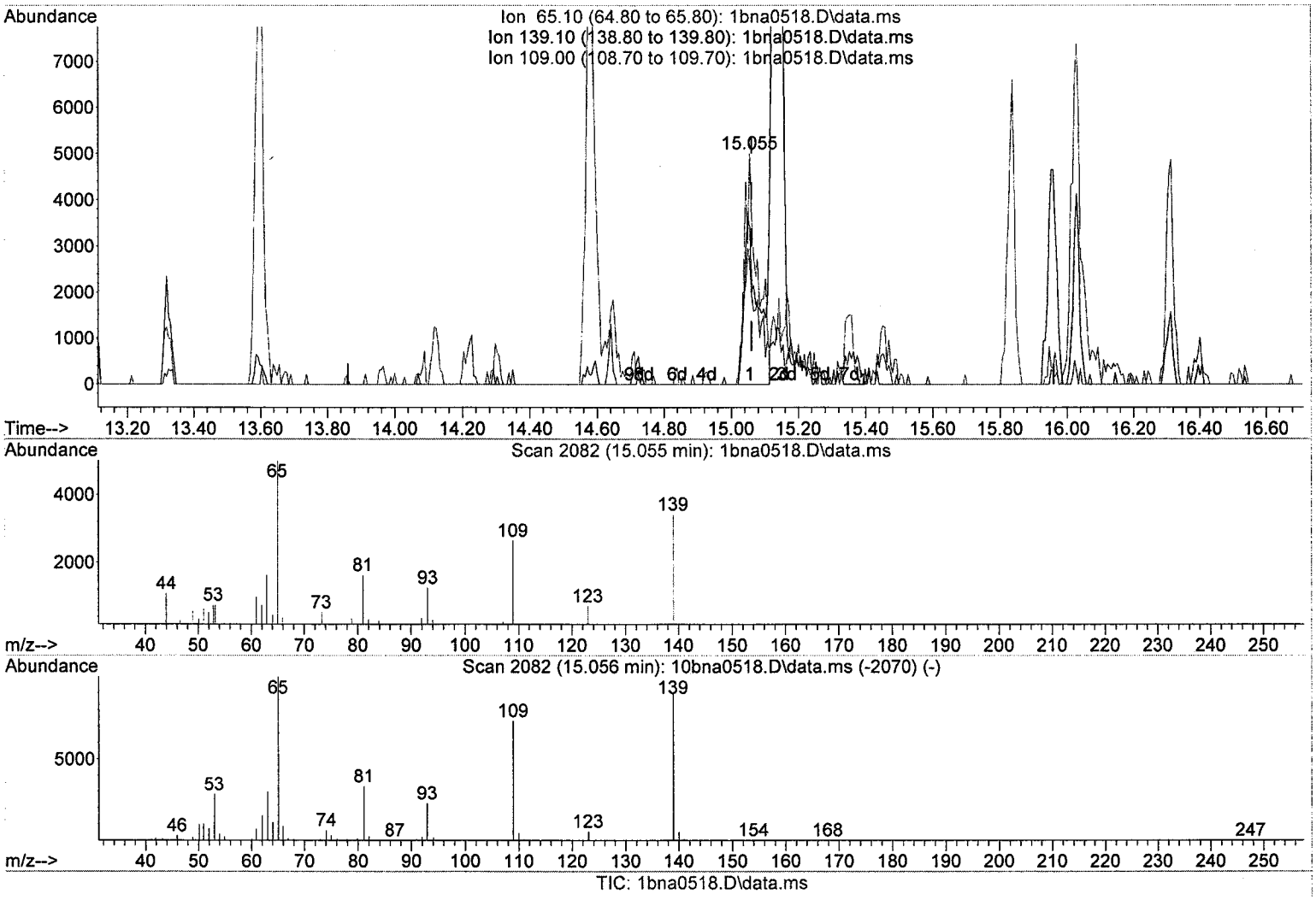
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 1bna0518.D
Acq On : 18 May 2012 10:55
Operator : JLB
Sample : 1bna0518 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 11:35:28 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:09:03 2012
Response via : Initial Calibration



TIC: 1bna0518.D\data.ms

(59) 4-Nitrophenol

15.055min (-0.006) 1.06 ng/uL

response 13290

Ion	Exp%	Act%
65.10	100	100
139.10	104.30	62.65#
109.00	63.30	64.73
0.00	0.00	0.00

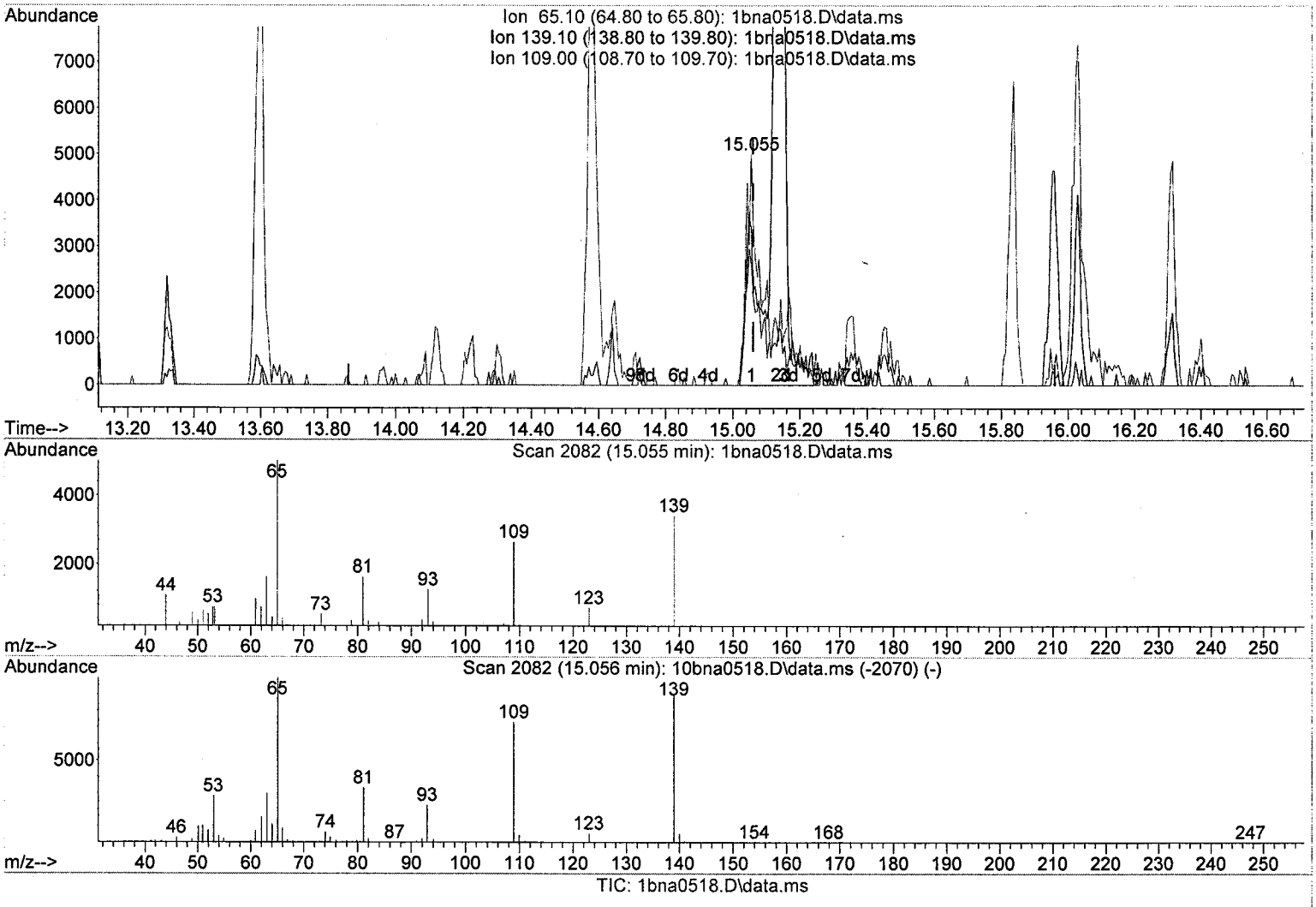
JLB 5/24/12

00953

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 1bna0518.D
Acq On : 18 May 2012 10:55
Operator : JLB
Sample : 1bna0518 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 18 11:35:28 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:09:03 2012
Response via : Initial Calibration



TIC: 1bna0518.D\data.ms

(59) 4-Nitrophenol

15.055min (-0.006) 1.61 ng/uL m

response 20293

Ion	Exp%	Act%
65.10	100	100
139.10	104.30	41.03#
109.00	63.30	42.39#
0.00	0.00	0.00

Manual Integration Explanation

Reason 3: Incorrect baseline drawn by the software.

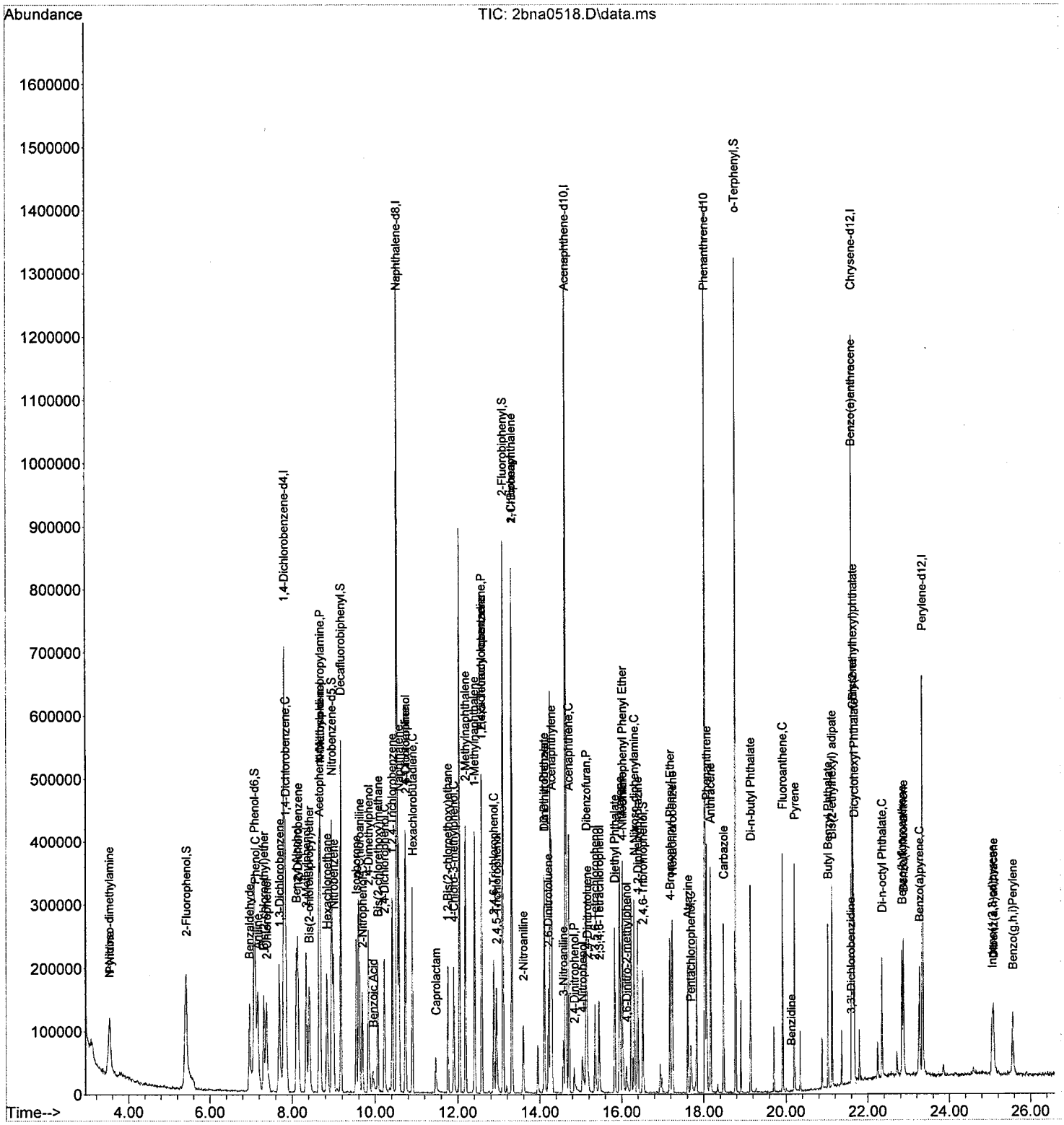
Flagged on Quantitation Report: Yes / No
Analyst: JLB Date: 5/21/12
Reviewed By: ✓ Date: 5/22

00954

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 2bna0518.D
Acq On : 18 May 2012 11:30
Operator : JLB
Sample : 2bna0518 Inst : 308
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 18 13:01:27 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:36:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 2bna0518.D
Acq On : 18 May 2012 11:30
Operator : JLB
Sample : 2bna0518 Inst : 308
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 18 13:01:27 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:36:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.810	152	271996	5.00	ng/uL	#	0.00
21) Naphthalene-d8	10.532	136	1065559	5.00	ng/uL		0.00
43) Acenaphthene-d10	14.642	164	519962	5.00	ng/uL		0.00
67) Phenanthrene-d10	18.040	188	742440	5.00	ng/uL		0.00
82) Chrysene-d12	21.618	240	391793	5.00	ng/uL	#	0.00
93) Perylene-d12	23.349	264	369248	5.00	ng/uL	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.421	112	243527	3.61	ng/uL		0.00
7) Phenol-d6	7.088	99	275308	3.54	ng/uL		0.00
22) Nitrobenzene-d5	8.959	82	262073	3.68	ng/uL		0.00
24) Decafluorobiphenyl	9.174	334	192401	3.79	ng/uL		0.00
48) 2-Fluorobiphenyl	13.103	172	454137	3.85	ng/uL		0.00
71) 2,4,6-Tribromophenol	16.524	330	30963	3.42	ng/uL		0.00
79) o-Terphenyl	18.780	230	276370	3.78	ng/uL		0.00
Target Compounds							Qvalue
2) N-Nitroso-dimethylamine	3.526	74	71554	1.76	ng/uL		86
3) Pyridine	3.538	79	142969	1.69	ng/uL		85
5) Aniline	7.175	93	140284	1.53	ng/uL		98
6) Benzaldehyde	6.971	105	70185	1.66	ng/uL#		1
8) Phenol	7.111	94	144746	1.69	ng/uL#		62
9) Bis(2-chloroethyl)ether	7.315	93	117449	1.69	ng/uL		100
10) 2-Chlorophenol	7.385	128	110868	1.73	ng/uL#		69
11) 1,3-Dichlorobenzene	7.694	146	131678	1.66	ng/uL		97
12) 1,4-Dichlorobenzene	7.839	146	130853	1.75	ng/uL		89
13) 1,2-Dichlorobenzene	8.137	146	129025	1.75	ng/uL		94
14) Bis(2-chloroisipropyl)...	8.411	45	182646	1.75	ng/uL		95
15) Benzyl Alcohol	8.108	108	68577	1.67	ng/uL		98
16) 2-Methylphenol	8.341	108	93841	1.69	ng/uL		89
17) Acetophenone	8.656	105	152597	1.72	ng/uL#		79
18) Hexachloroethane	8.842	119	49805	1.80	ng/uL		98
19) 4-Methylphenol	8.679	107	104577	1.63	ng/uL#		36
20) N-Nitroso-di-n-propyla...	8.679	70	78639	1.67	ng/uL#		58
23) Nitrobenzene	8.999	77	132275	1.78	ng/uL#		1
25) Isophorone	9.541	82	183978	1.73	ng/uL		97
26) 2-Chloroaniline	9.617	127	125937	1.68	ng/uL#		94
27) 2-Nitrophenol	9.693	139	49802	1.63	ng/uL#		93
28) 2,4-Dimethylphenol	9.839	107	97948	1.69	ng/uL		94
29) Bis(2-chlorethoxy)methane	10.072	93	105766	1.71	ng/uL		89
30) 2,4-Dichlorophenol	10.229	162	80043	1.78	ng/uL		98
31) Benzoic Acid	9.955	105	26952m	0.98	ng/uL		
32) 1,2,4-Trichlorobenzene	10.416	180	103300	1.78	ng/uL		98
33) Naphthalene	10.579	128	314058	1.71	ng/uL		96
34) 4-Chloroaniline	10.736	127	102437	1.62	ng/uL#		67
35) 2,6-Dichlorophenol	10.742	162	76108	1.64	ng/uL#		81
36) Hexachlorobutadiene	10.911	225	63065	1.79	ng/uL		95
37) Caprolactam	11.471	55	21454	1.31	ng/uL		90
38) 1,2-Bis(2-chloroethoxy...	11.762	63	79095	1.71	ng/uL#		100
39) 4-Chloro-3-methylphenol	11.908	107	69555	1.57	ng/uL		96
40) 2-Methylnaphthalene	12.193	142	198695	1.69	ng/uL		97
41) 1-Methylnaphthalene	12.415	142	188938	1.66	ng/uL#		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 2bna0518.D
Acq On : 18 May 2012 11:30
Operator : JLB
Sample : 2bna0518 Inst : 308
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 18 13:01:27 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:36:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.117	168	19385	1.28 ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.590	216	90858	1.74 ng/uL	97
45) Hexachlorocyclopentadiene	12.584	237	43367	1.48 ng/uL	94
46) 2,4,6-Trichlorophenol	12.875	196	49447	1.74 ng/uL	92
47) 2,4,5-Trichlorophenol	12.945	196	44832	1.57 ng/uL	96
49) 2-Chloronaphthalene	13.324	162	187439	1.82 ng/uL	96
50) 1,1'-Biphenyl	13.324	154	227495	1.77 ng/uL	97
51) 2-Nitroaniline	13.598	138	30826	1.28 ng/uL#	82
52) Acenaphthylene	14.298	152	254846	1.67 ng/uL#	84
53) 2,6-Dinitrotoluene	14.216	165	35861	1.67 ng/uL	100
54) Dimethyl Phthalate	14.117	163	158754	1.63 ng/uL	94
55) 3-Nitroaniline	14.577	138	22946	1.47 ng/uL#	1
56) Acenaphthene	14.717	153	166442	1.72 ng/uL	97
57) 2,4-Dinitrophenol	14.846	184	13164	1.47 ng/uL	88
58) Dibenzofuran	15.143	168	230959	1.75 ng/uL	96
59) 4-Nitrophenol	15.044	65	38291	2.88 ng/uL#	67
60) 2,4-Dinitrotoluene	15.166	165	36366	1.39 ng/uL#	51
61) 2,3,5,6-Tetrachlorophenol	15.353	232	31747	1.49 ng/uL	97
62) 2,3,4,6-Tetrachlorophenol	15.458	232	31516	1.49 ng/uL#	92
63) Fluorene	15.959	166	171711	1.69 ng/uL#	96
64) Diethyl Phthalate	15.836	149	156268	1.57 ng/uL	98
65) 4-Chlorophenyl Phenyl ...	16.029	204	89738	1.79 ng/uL	91
66) 4-Nitroaniline	16.023	138	17357	1.68 ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.122	198	11909	1.00 ng/uL#	84
69) N-Nitroso-diphenylamine	16.314	169	122217	1.61 ng/uL	98
70) 1,2-Diphenylhydrazine	16.402	182	42114	1.72 ng/uL	88
72) 4-Bromophenyl Phenyl E...	17.189	248	43848	1.80 ng/uL	96
73) Hexachlorobenzene	17.247	284	50733	1.83 ng/uL#	91
74) Atrazine	17.620	200	33033	1.57 ng/uL	100
75) Pentachlorophenol	17.690	266	15374	1.22 ng/uL	99
76) Phenanthrene	18.080	178	217171	1.68 ng/uL	99
77) Anthracene	18.174	178	202799	1.61 ng/uL	98
78) Carbazole	18.488	167	143119	1.64 ng/uL	98
80) Di-n-butyl Phthalate	19.153	149	197336	1.56 ng/uL	100
81) Fluoroanthene	19.922	202	180025	1.60 ng/uL#	88
83) Benzidine	20.132	184	1412	0.34 ng/uL#	71
84) Pyrene	20.214	202	179743	1.57 ng/uL#	92
85) Butyl Benzyl Phthalate	21.030	149	56511	1.45 ng/uL	93
86) Bis(2-ethylhexyl) adipate	21.129	129	47246	1.50 ng/uL#	100
87) Benzo(a)anthracene	21.613	228	140992	1.68 ng/uL	98
88) 3,3'-Dichlorobenzidine	21.595	252	150	0.24 ng/uL#	1
89) Chrysene	21.648	228	145968	1.68 ng/uL	95
90) Bis(2-ethylhexyl)phtha...	21.653	149	77185	1.45 ng/uL	99
91) Dicyclohexyl Phthalate	21.677	149	109845	1.68 ng/uL#	100
92) Di-n-octyl Phthalate	22.353	149	106967	1.55 ng/uL	98
94) Benzo(b)fluoroanthene	22.842	252	105150	1.53 ng/uL	95
95) Benzo(k)fluoranthene	22.877	252	120912	1.68 ng/uL	92
96) Benzo(a)pyrene	23.274	252	103327	1.60 ng/uL	93
97) Indeno(1,2,3-cd)pyrene	25.063	276	101605m	1.62 ng/uL	
98) Dibenz(a,h)anthracene	25.092	278	81133	1.62 ng/uL	93
99) Benzo(g,h,i)Perylene	25.564	276	92462	1.71 ng/uL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 2bna0518.D
Acq On : 18 May 2012 11:30
Operator : JLB
Sample : 2bna0518 Inst : 308
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 18 13:01:27 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:36:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

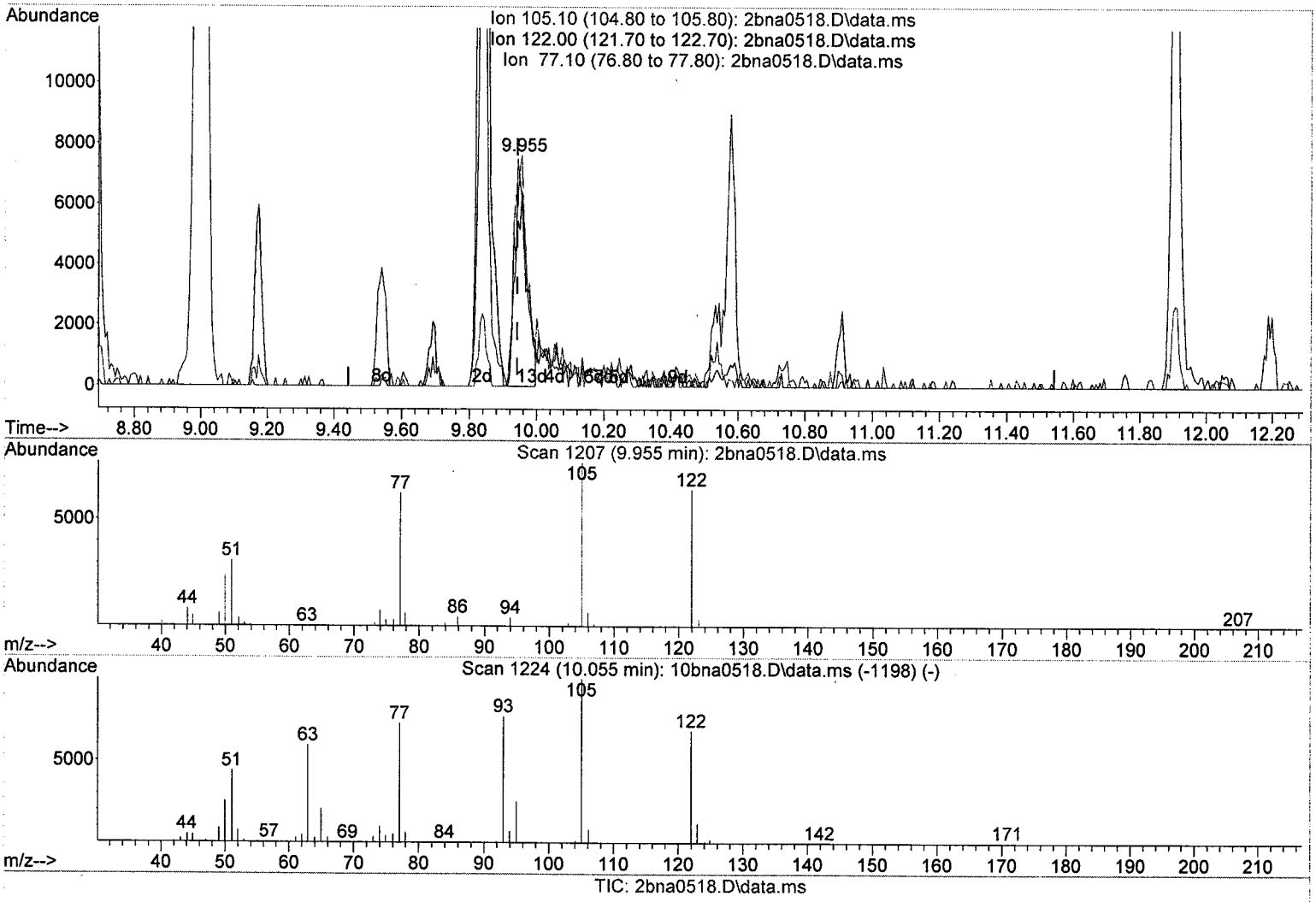
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00958

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 2bna0518.D
Acq On : 18 May 2012 11:30
Operator : JLB
Sample : 2bna0518 Inst : 308
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 18 13:00:30 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:36:53 2012
Response via : Initial Calibration



TIC: 2bna0518.D\data.ms

(31) Benzoic Acid

9.955min (+0.012) 0.71 ng/uL

response 19601

Ion	Exp%	Act%
105.10	100	100
122.00	80.10	115.42#
77.10	74.70	114.47#
0.00	0.00	0.00

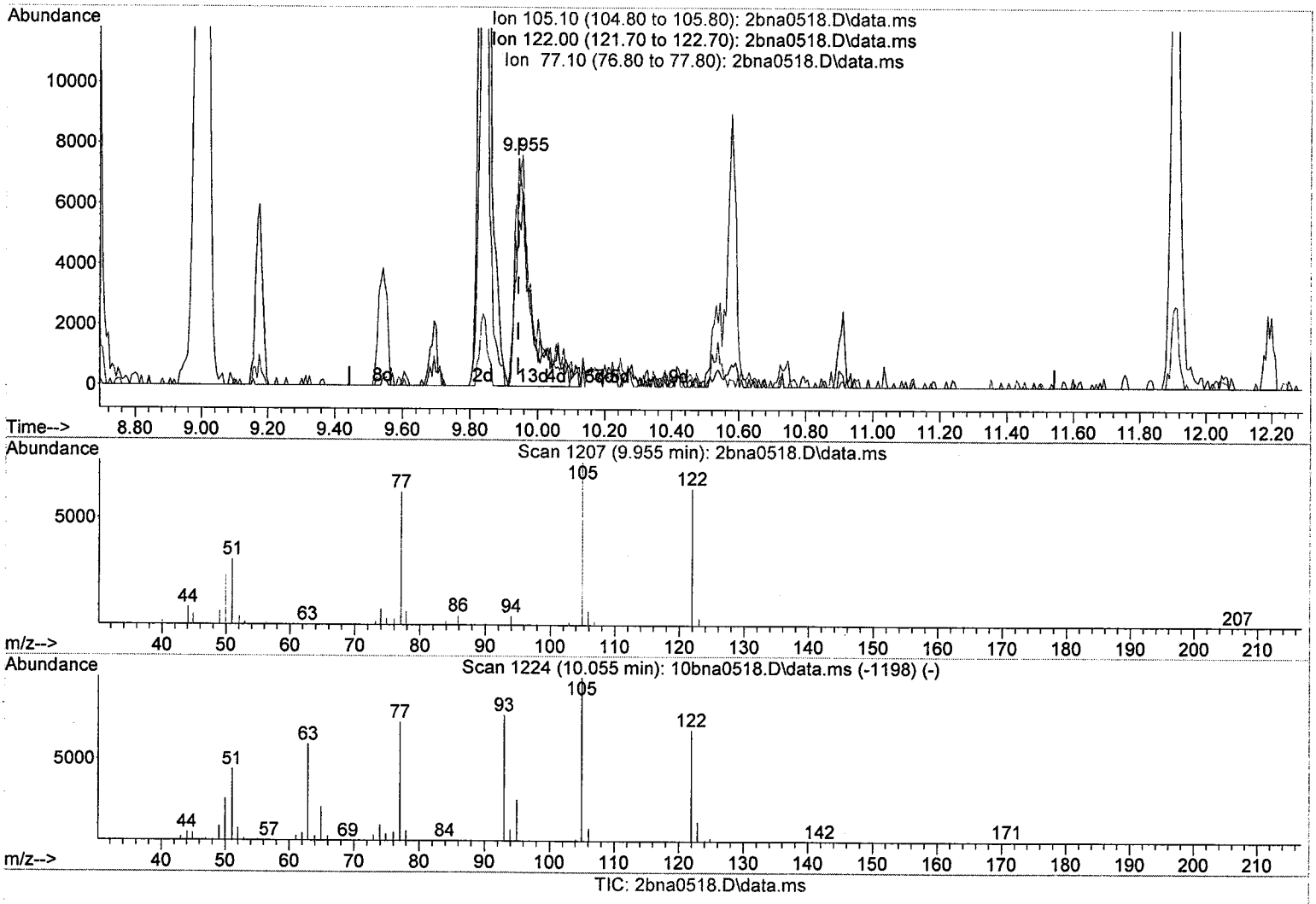
JLB 5/24/12

00959

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 2bna0518.D
Acq On : 18 May 2012 11:30
Operator : JLB
Sample : 2bna0518 Inst : 308
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 18 13:00:30 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:36:53 2012
Response via : Initial Calibration



TIC: 2bna0518.D\data.ms

(31) Benzoic Acid

9.955min (+0.012) 0.98 ng/uL m

response 26952

Ion	Exp%	Act%
105.10	100	100
122.00	80.10	83.94
77.10	74.70	83.25
0.00	0.00	0.00

Manual Integration Explanation

Reason 3: Incorrect baseline drawn by the software.

Flagged on Quantitation Report: Yes / No

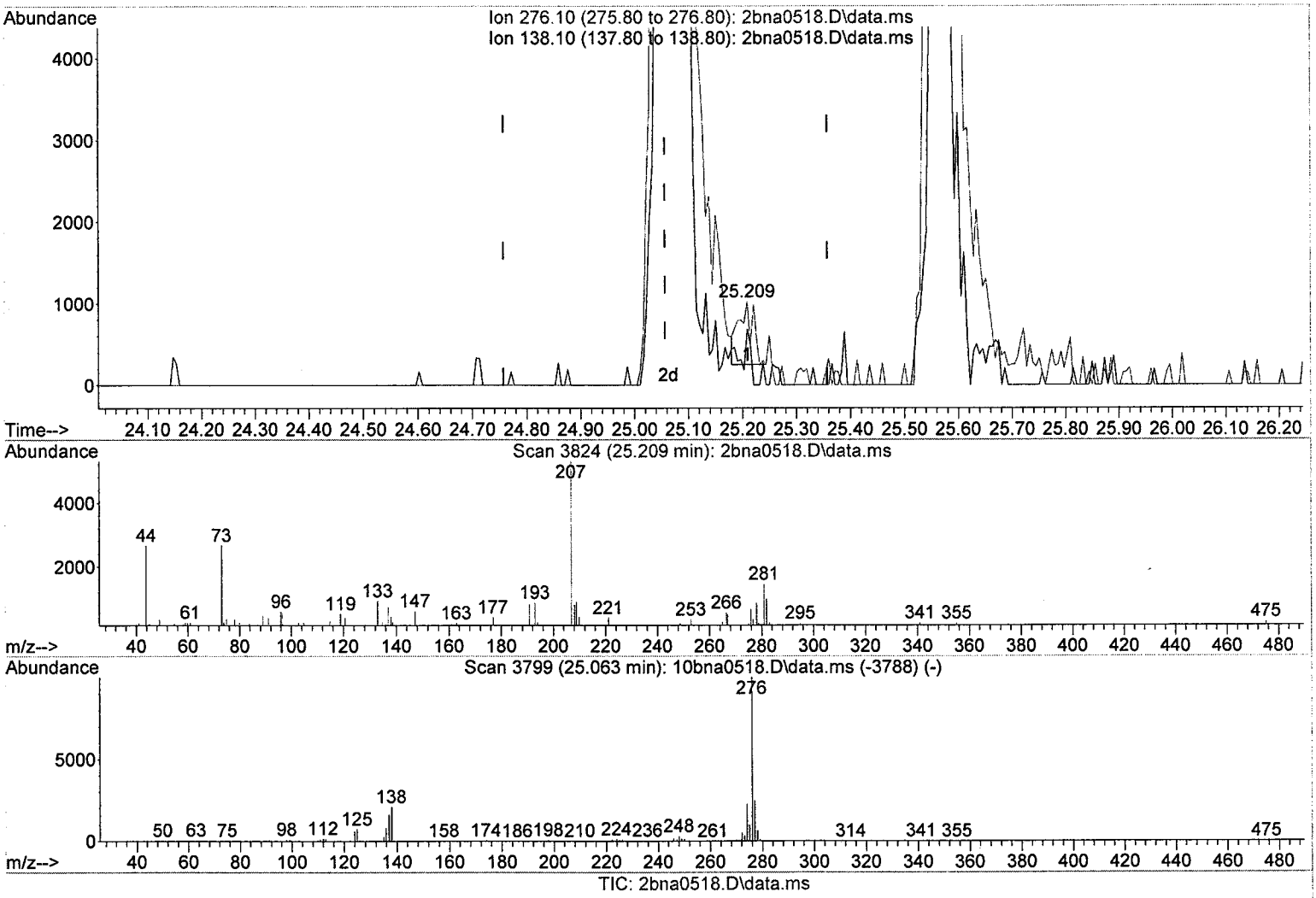
Analyst: _____ Date: 5/24/12

Reviewed By: _____ Date: 5/24/12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 2bna0518.D
Acq On : 18 May 2012 11:30
Operator : JLB
Sample : 2bna0518 Inst : 308
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 18 13:00:30 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:36:53 2012
Response via : Initial Calibration



TIC: 2bna0518.D\data.ms

(97) Indeno(1,2,3-cd)pyrene

25.209min (+0.151) 0.02 ng/uL

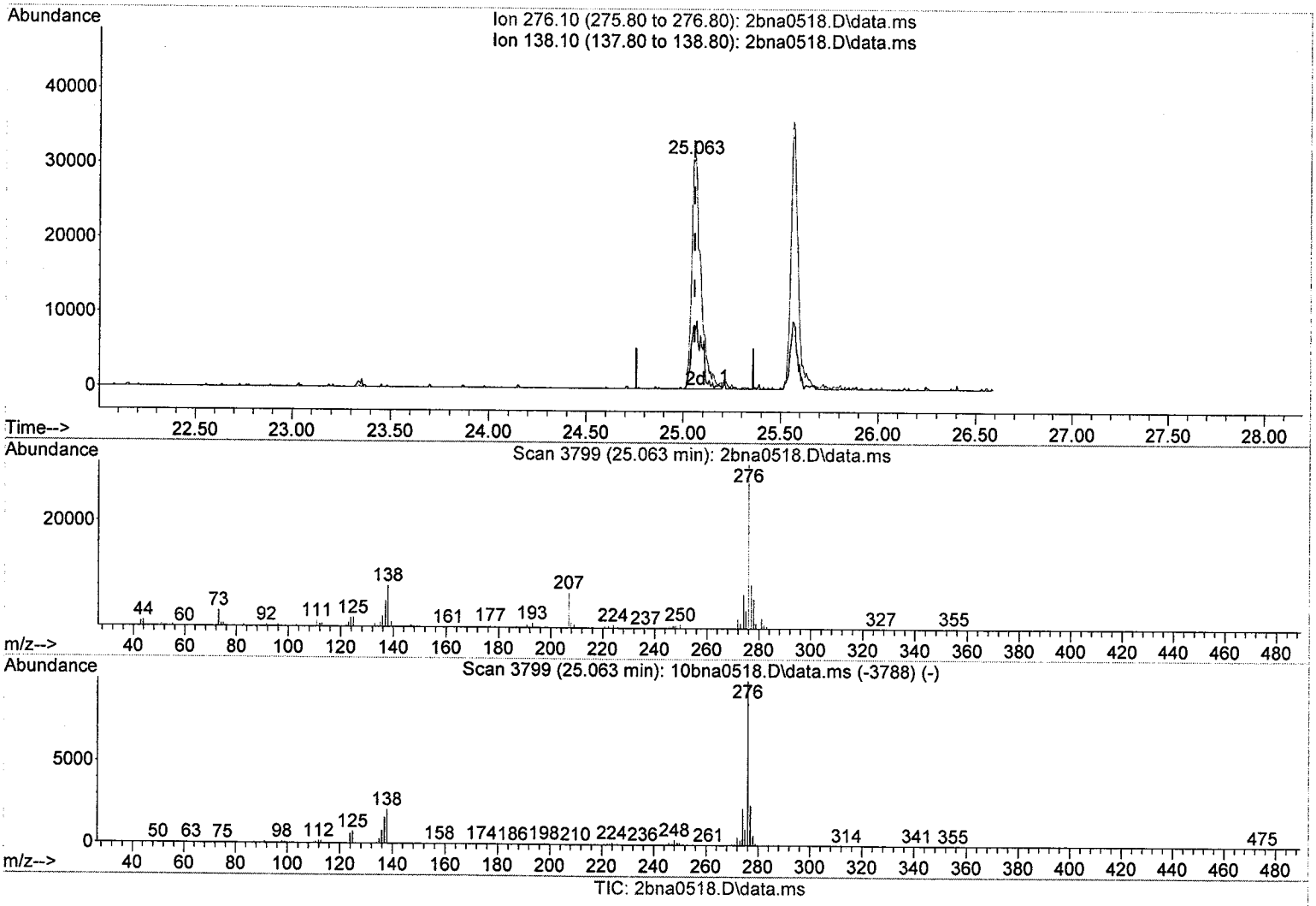
response 1455

Ion	Exp%	Act%
276.10	100	100
138.10	28.90	28.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 2bna0518.D
Acq On : 18 May 2012 11:30
Operator : JLB
Sample : 2bna0518 Inst : 308
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 18 13:00:30 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 11:36:53 2012
Response via : Initial Calibration



TIC: 2bna0518.D\data.ms

(97) Indeno(1,2,3-cd)pyrene

25.063min (+0.006) 1.62 ng/uL m

response 101605

Ion	Exp%	Act%
276.10	100	100
138.10	28.90	0.41#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 1: Incorrect peak integrated by the software.

Flagged on Quantitation Report: Yes / No

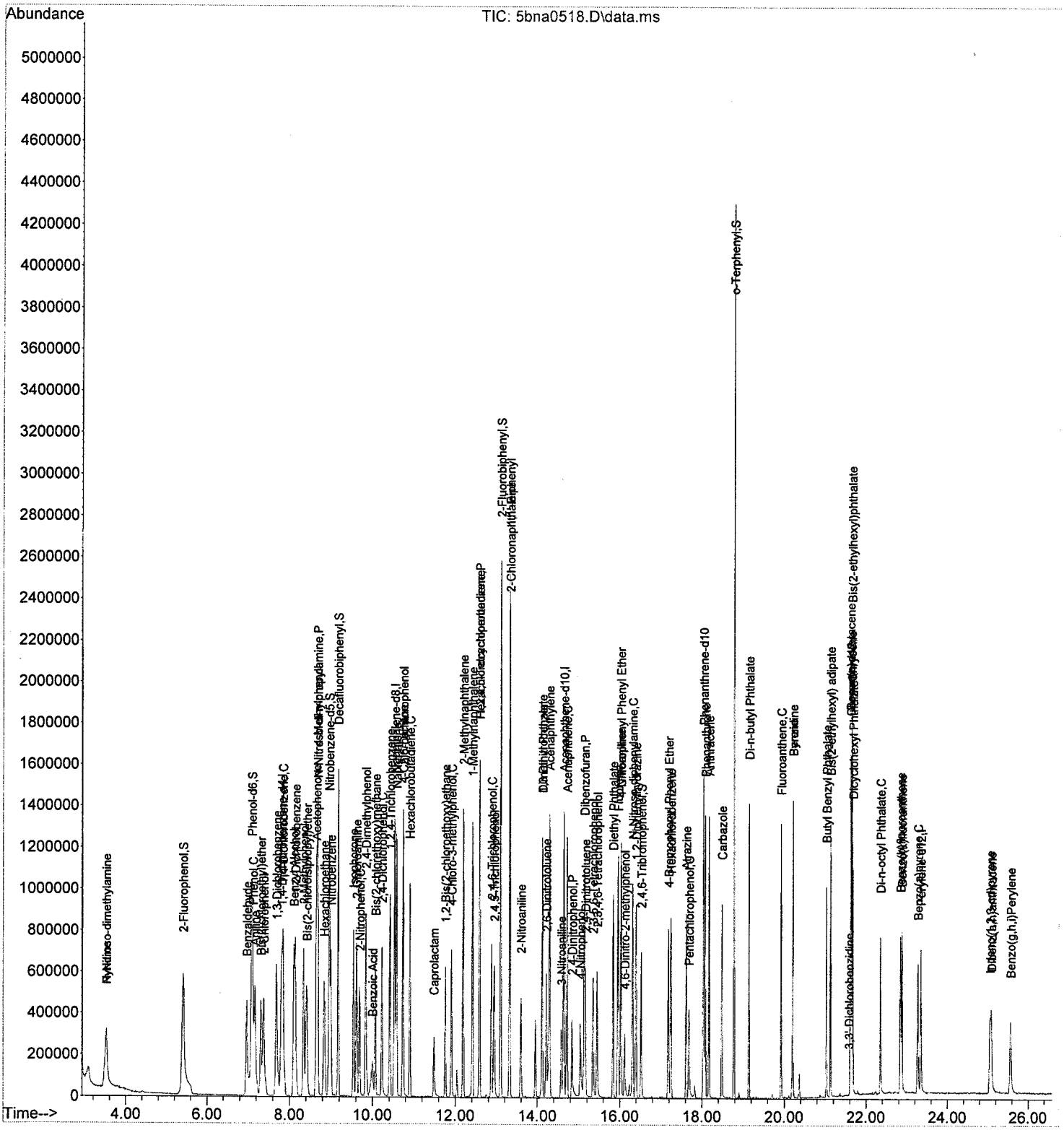
Analyst: JLB Date: 5/24/12

Reviewed By: [signature] Date: 5/24/12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 5bna0518.D
Acq On : 18 May 2012 12:05
Operator : JLB
Sample : 5bna0518 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 13:02:01 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:01:55 2012
Response via : Initial Calibration



00963

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 5bna0518.D
Acq On : 18 May 2012 12:05
Operator : JLB
Sample : 5bna0518 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 13:02:01 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:01:55 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.810	152	258078	5.00	ng/uL	#	0.00
21) Naphthalene-d8	10.532	136	1044583	5.00	ng/uL		0.00
43) Acenaphthene-d10	14.647	164	523707	5.00	ng/uL		0.00
67) Phenanthrene-d10	18.040	188	831945	5.00	ng/uL		0.00
82) Chrysene-d12	21.618	240	420511	5.00	ng/uL	#	0.00
93) Perylene-d12	23.349	264	388731	5.00	ng/uL	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.415	112	738284	11.57	ng/uL		0.00
7) Phenol-d6	7.093	99	851951	11.59	ng/uL		0.00
22) Nitrobenzene-d5	8.959	82	808419	11.54	ng/uL		0.00
24) Decafluorobiphenyl	9.174	334	566805	11.35	ng/uL		0.00
48) 2-Fluorobiphenyl	13.103	172	1368360	11.51	ng/uL		0.00
71) 2,4,6-Tribromophenol	16.530	330	111155	10.84	ng/uL		0.00
79) o-Terphenyl	18.780	230	923602	11.24	ng/uL		0.00
Target Compounds							Qvalue
2) N-Nitroso-dimethylamine	3.526	74	225294	5.83	ng/uL		94
3) Pyridine	3.526	79	425518	5.33	ng/uL		87
5) Aniline	7.175	93	501698	5.76	ng/uL		100
6) Benzaldehyde	6.977	105	246598	6.13	ng/uL#		1
8) Phenol	7.123	94	450460	5.55	ng/uL#		53
9) Bis(2-chloroethyl)ether	7.315	93	368084	5.61	ng/uL		100
10) 2-Chlorophenol	7.385	128	349862	5.72	ng/uL#		33
11) 1,3-Dichlorobenzene	7.688	146	426906	5.70	ng/uL		96
12) 1,4-Dichlorobenzene	7.839	146	413142	5.80	ng/uL		96
13) 1,2-Dichlorobenzene	8.143	146	392729	5.58	ng/uL		91
14) Bis(2-chloroisipropyl)...	8.422	45	587842	5.98	ng/uL		93
15) Benzyl Alcohol	8.102	108	224565	5.73	ng/uL		96
16) 2-Methylphenol	8.341	108	300431	5.69	ng/uL#		89
17) Acetophenone	8.655	105	483530	5.74	ng/uL#		80
18) Hexachloroethane	8.842	119	146743	5.55	ng/uL		93
19) 4-Methylphenol	8.679	107	342093	5.62	ng/uL#		40
20) N-Nitroso-di-n-propyla...	8.685	70	261283	5.84	ng/uL#		63
23) Nitrobenzene	8.999	77	417570	5.72	ng/uL#		1
25) Isophorone	9.541	82	602163	5.74	ng/uL		97
26) 2-Chloroaniline	9.617	127	412813	5.63	ng/uL		94
27) 2-Nitrophenol	9.699	139	172306	5.73	ng/uL#		93
28) 2,4-Dimethylphenol	9.839	107	325067	5.72	ng/uL		93
29) Bis(2-chlorethoxy)methane	10.072	93	338216	5.59	ng/uL		94
30) 2,4-Dichlorophenol	10.229	162	249210	5.59	ng/uL		98
31) Benzoic Acid	10.008	105	156546	5.76	ng/uL		92
32) 1,2,4-Trichlorobenzene	10.422	180	318985	5.57	ng/uL		99
33) Naphthalene	10.579	128	1002003	5.55	ng/uL		97
34) 4-Chloroaniline	10.736	127	346978	5.57	ng/uL#		74
35) 2,6-Dichlorophenol	10.742	162	261078	5.71	ng/uL		89
36) Hexachlorobutadiene	10.905	225	205190	5.92	ng/uL		97
37) Caprolactam	11.482	55	95517	5.83	ng/uL		96
38) 1,2-Bis(2-chloroethoxy...	11.762	63	259286	5.70	ng/uL#		100
39) 4-Chloro-3-methylphenol	11.914	107	252672	5.78	ng/uL		94
40) 2-Methylnaphthalene	12.193	142	645417	5.59	ng/uL		96
41) 1-Methylnaphthalene	12.415	142	630612	5.66	ng/uL		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 5bna0518.D
Acq On : 18 May 2012 12:05
Operator : JLB
Sample : 5bna0518 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 13:02:01 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:01:55 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.123	168	85350	5.73	ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.584	216	304663	5.82	ng/uL	99
45) Hexachlorocyclopentadiene	12.590	237	171382	5.83	ng/uL	99
46) 2,4,6-Trichlorophenol	12.881	196	170787	5.90	ng/uL	96
47) 2,4,5-Trichlorophenol	12.945	196	166590	5.76	ng/uL	97
49) 2-Chloronaphthalene	13.330	162	584172	5.60	ng/uL	93
50) 1,1'-Biphenyl	13.324	154	728771	5.63	ng/uL	98
51) 2-Nitroaniline	13.598	138	139346	5.75	ng/uL	86
52) Acenaphthylene	14.298	152	871384	5.69	ng/uL#	84
53) 2,6-Dinitrotoluene	14.228	165	132023	6.03	ng/uL	95
54) Dimethyl Phthalate	14.123	163	548357	5.57	ng/uL	94
55) 3-Nitroaniline	14.583	138	87045	5.53	ng/uL#	1
56) Acenaphthene	14.717	153	561638	5.73	ng/uL	98
57) 2,4-Dinitrophenol	14.845	184	96112	10.72	ng/uL	99
58) Dibenzofuran	15.143	168	757014	5.68	ng/uL	97
59) 4-Nitrophenol	15.044	65	169803	12.50	ng/uL#	79
60) 2,4-Dinitrotoluene	15.166	165	153147	5.82	ng/uL#	66
61) 2,3,5,6-Tetrachlorophenol	15.353	232	125098	5.78	ng/uL	97
62) 2,3,4,6-Tetrachlorophenol	15.452	232	122830	5.76	ng/uL	95
63) Fluorene	15.959	166	590575	5.75	ng/uL#	94
64) Diethyl Phthalate	15.842	149	578743	5.73	ng/uL	98
65) 4-Chlorophenyl Phenyl ...	16.029	204	290133	5.71	ng/uL#	86
66) 4-Nitroaniline	16.029	138	56637	5.50	ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.122	198	73509	5.47	ng/uL#	90
69) N-Nitroso-diphenylamine	16.314	169	454469	5.33	ng/uL	99
70) 1,2-Diphenylhydrazine	16.402	182	146167	5.32	ng/uL	90
72) 4-Bromophenyl Phenyl E...	17.189	248	147756	5.36	ng/uL	92
73) Hexachlorobenzene	17.247	284	170215	5.45	ng/uL#	94
74) Atrazine	17.620	200	130615	5.52	ng/uL	99
75) Pentachlorophenol	17.690	266	73401	5.19	ng/uL	93
76) Phenanthrene	18.086	178	778780	5.38	ng/uL	98
77) Anthracene	18.179	178	778608	5.52	ng/uL	97
78) Carbazole	18.488	167	542377	5.56	ng/uL	99
80) Di-n-butyl Phthalate	19.153	149	798677	5.57	ng/uL	100
81) Fluoroanthene	19.928	202	654891	5.17	ng/uL#	88
83) Benzidine	20.214	184	233	0.05	ng/uL#	1
84) Pyrene	20.214	202	691095	5.59	ng/uL#	92
85) Butyl Benzyl Phthalate	21.030	149	238815	5.61	ng/uL	88
86) Bis(2-ethylhexyl) adipate	21.129	129	199783	5.80	ng/uL#	100
87) Benzo(a)anthracene	21.613	228	487348	5.38	ng/uL	98
88) 3,3'-Dichlorobenzidine	21.583	252	849	1.32	ng/uL#	69
89) Chrysene	21.648	228	503978	5.42	ng/uL	98
90) Bis(2-ethylhexyl)phtha...	21.653	149	315755	5.47	ng/uL	100
91) Dicyclohexyl Phthalate	21.677	149	413782	5.85	ng/uL#	100
92) Di-n-octyl Phthalate	22.353	149	431842	5.66	ng/uL	100
94) Benzo(b)fluoroanthene	22.842	252	407118	5.55	ng/uL#	95
95) Benzo(k)fluoranthene	22.877	252	414717	5.48	ng/uL	93
96) Benzo(a)pyrene	23.274	252	368954	5.36	ng/uL#	91
97) Indeno(1,2,3-cd)pyrene	25.063	276	370613	5.54	ng/uL	99
98) Dibenz(a,h)anthracene	25.098	278	295150	5.54	ng/uL	98
99) Benzo(g,h,i)Perylene	25.570	276	320244	5.55	ng/uL	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 5bna0518.D
Acq On : 18 May 2012 12:05
Operator : JLB
Sample : 5bna0518 Inst : 308
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 13:02:01 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:01:55 2012
Response via : Initial Calibration

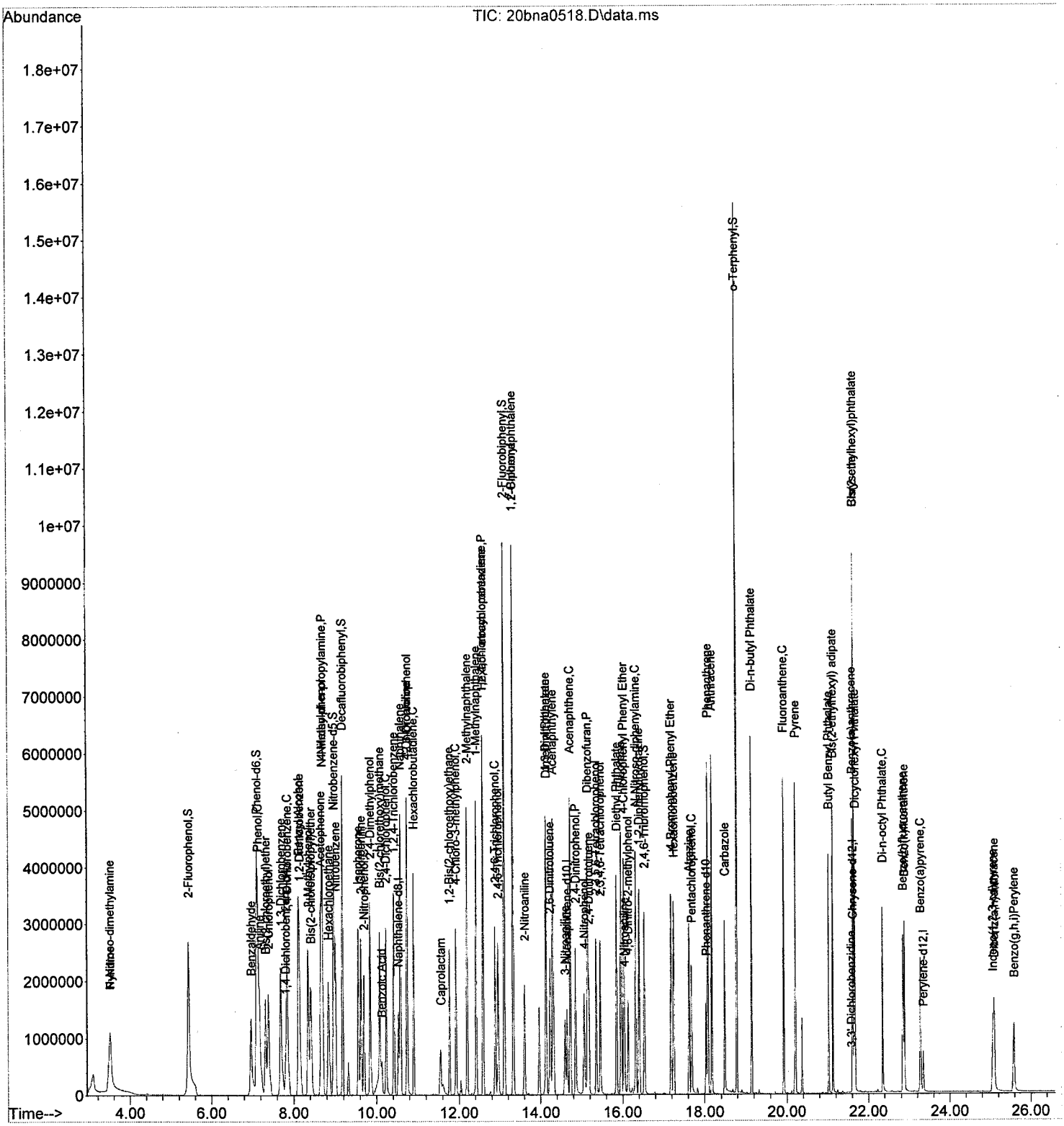
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 20bna0518.D
Acq On : 18 May 2012 13:16
Operator : JLB
Sample : 20bna0518 Inst : 308
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 18 13:41:39 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:07:50 2012
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 20bna0518.D
Acq On : 18 May 2012 13:16
Operator : JLB
Sample : 20bna0518 Inst : 308
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 18 13:41:39 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:07:50 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.811	152	276601	5.00	ng/uL	#	0.00
21) Naphthalene-d8	10.538	136	1112405	5.00	ng/uL		0.00
43) Acenaphthene-d10	14.653	164	591559	5.00	ng/uL		0.00
67) Phenanthrene-d10	18.046	188	945106	5.00	ng/uL		0.00
82) Chrysene-d12	21.624	240	435582	5.00	ng/uL	#	0.00
93) Perylene-d12	23.350	264	381971	5.00	ng/uL	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.438	112	2860953	41.92	ng/uL		0.00
7) Phenol-d6	7.117	99	3276536	41.75	ng/uL		0.00
22) Nitrobenzene-d5	8.976	82	3177155	42.50	ng/uL		0.00
24) Decafluorobiphenyl	9.186	334	2249618	41.73	ng/uL		0.00
48) 2-Fluorobiphenyl	13.115	172	5521908	40.97	ng/uL		0.00
71) 2,4,6-Tribromophenol	16.542	330	544128	46.62	ng/uL		0.00
79) o-Terphenyl	18.786	230	3827817	40.74	ng/uL		0.00
Target Compounds							Qvalue
2) N-Nitroso-dimethylamine	3.503	74	869736	21.02	ng/uL		92
3) Pyridine	3.515	79	1688564	19.92	ng/uL		87
5) Aniline	7.181	93	1979968	21.29	ng/uL	#	86
6) Benzaldehyde	6.977	105	811502	18.74	ng/uL	#	1
8) Phenol	7.140	94	1797687	20.86	ng/uL	#	58
9) Bis(2-chloroethyl)ether	7.327	93	1424898	20.44	ng/uL		100
10) 2-Chlorophenol	7.397	128	1385081	21.13	ng/uL	#	35
11) 1,3-Dichlorobenzene	7.694	146	1632348	20.36	ng/uL		96
12) 1,4-Dichlorobenzene	7.845	146	1583512	20.47	ng/uL		96
13) 1,2-Dichlorobenzene	8.143	146	1521902	20.23	ng/uL		93
14) Bis(2-chloroisipropyl)...	8.422	45	2201025	20.93	ng/uL		94
15) Benzyl Alcohol	8.119	108	906239	21.48	ng/uL		96
16) 2-Methylphenol	8.358	108	1177349	20.87	ng/uL	#	91
17) Acetophenone	8.661	105	1899880	21.03	ng/uL	#	81
18) Hexachloroethane	8.848	119	594979	21.08	ng/uL		96
19) 4-Methylphenol	8.696	107	1377322	21.19	ng/uL	#	44
20) N-Nitroso-di-n-propyla...	8.702	70	1035009	21.53	ng/uL	#	68
23) Nitrobenzene	9.011	77	1611202	20.74	ng/uL	#	1
25) Isophorone	9.559	82	2440186	21.84	ng/uL		97
26) 2-Chloroaniline	9.629	127	1635752	20.90	ng/uL		97
27) 2-Nitrophenol	9.705	139	710306	22.10	ng/uL	#	91
28) 2,4-Dimethylphenol	9.851	107	1265894	20.95	ng/uL		94
29) Bis(2-chlorethoxy)methane	10.084	93	1343312	20.93	ng/uL		94
30) 2,4-Dichlorophenol	10.235	162	1030806	21.65	ng/uL		99
31) Benzoic Acid	10.130	105	955387	32.34	ng/uL		93
32) 1,2,4-Trichlorobenzene	10.428	180	1243199	20.38	ng/uL		99
33) Naphthalene	10.585	128	3855562	20.31	ng/uL		97
34) 4-Chloroaniline	10.748	127	1422693	21.44	ng/uL	#	79
35) 2,6-Dichlorophenol	10.754	162	1034391	21.14	ng/uL		89
36) Hexachlorobutadiene	10.911	225	778406	20.81	ng/uL		97
37) Caprolactam	11.558	55	474779	26.52	ng/uL		95
38) 1,2-Bis(2-chloroethoxy...	11.774	63	1058355	21.78	ng/uL	#	100
39) 4-Chloro-3-methylphenol	11.931	107	1053214	22.34	ng/uL		94
40) 2-Methylnaphthalene	12.205	142	2523718	18.71	ng/uL		97
41) 1-Methylnaphthalene	12.427	142	2457449	20.63	ng/uL		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 20bna0518.D
Acq On : 18 May 2012 13:16
Operator : JLB
Sample : 20bna0518 Inst : 308
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 18 13:41:39 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:07:50 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.140	168	412763	25.73 ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.596	216	1188771	20.02 ng/uL	98
45) Hexachlorocyclopentadiene	12.590	237	780743	23.56 ng/uL	99
46) 2,4,6-Trichlorophenol	12.887	196	717860	21.73 ng/uL	97
47) 2,4,5-Trichlorophenol	12.957	196	729466	22.02 ng/uL	98
49) 2-Chloronaphthalene	13.336	162	2334214	19.82 ng/uL	95
50) 1,1'-Biphenyl	13.330	154	2971304	20.38 ng/uL	98
51) 2-Nitroaniline	13.616	138	675422	24.35 ng/uL	92
52) Acenaphthylene	14.309	152	3601546	20.79 ng/uL#	85
53) 2,6-Dinitrotoluene	14.239	165	559150	22.44 ng/uL	95
54) Dimethyl Phthalate	14.146	163	2457092	21.96 ng/uL	95
55) 3-Nitroaniline	14.601	138	391917	21.98 ng/uL#	1
56) Acenaphthene	14.729	153	2278479	20.60 ng/uL	99
57) 2,4-Dinitrophenol	14.863	184	684948	67.34 ng/uL	99
58) Dibenzofuran	15.155	168	3112072	20.58 ng/uL	97
59) 4-Nitrophenol	15.073	65	800663	51.08 ng/uL#	81
60) 2,4-Dinitrotoluene	15.184	165	731763	24.45 ng/uL#	77
61) 2,3,5,6-Tetrachlorophenol	15.359	232	595361	24.02 ng/uL	97
62) 2,3,4,6-Tetrachlorophenol	15.464	232	567492	23.22 ng/uL	95
63) Fluorene	15.971	166	2474137	21.24 ng/uL#	94
64) Diethyl Phthalate	15.860	149	2580126	22.34 ng/uL	96
65) 4-Chlorophenyl Phenyl ...	16.035	204	1172978	20.37 ng/uL	89
66) 4-Nitroaniline	16.052	138	185256	15.95 ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.140	198	429767	28.27 ng/uL	92
69) N-Nitroso-diphenylamine	16.332	169	1966515	20.32 ng/uL	99
70) 1,2-Diphenylhydrazine	16.414	182	634639	20.58 ng/uL	96
72) 4-Bromophenyl Phenyl E...	17.195	248	645773	20.50 ng/uL	97
73) Hexachlorobenzene	17.259	284	682021	19.16 ng/uL#	95
74) Atrazine	17.638	200	579071	21.46 ng/uL	98
75) Pentachlorophenol	17.696	266	375834	23.27 ng/uL	94
76) Phenanthrene	18.092	178	3283599	19.97 ng/uL	99
77) Anthracene	18.185	178	3336022	20.90 ng/uL	98
78) Carbazole	18.494	167	2159185	19.44 ng/uL	96
80) Di-n-butyl Phthalate	19.153	149	3621976	22.16 ng/uL	100
81) Fluoroanthene	19.928	202	2861138	20.03 ng/uL#	87
83) Benzidine	0.000		0	N.D.	
84) Pyrene	20.220	202	2818649	21.67 ng/uL#	91
85) Butyl Benzyl Phthalate	21.036	149	1020192	22.80 ng/uL	87
86) Bis(2-ethylhexyl) adipate	21.135	129	837445	22.98 ng/uL#	100
87) Benzo(a)anthracene	21.613	228	1923210	20.34 ng/uL#	97
88) 3,3'-Dichlorobenzidine	21.584	252	195	0.29 ng/uL#	19
89) Chrysene	21.654	228	1927531	19.97 ng/uL	98
90) Bis(2-ethylhexyl)phtha...	21.654	149	1290126	21.75 ng/uL	100
91) Dicyclohexyl Phthalate	21.683	149	1577790	21.26 ng/uL#	100
92) Di-n-octyl Phthalate	22.353	149	1839493	22.77 ng/uL	100
94) Benzo(b)fluoroanthene	22.848	252	1615696	22.29 ng/uL#	95
95) Benzo(k)fluoranthene	22.883	252	1515755	20.33 ng/uL	93
96) Benzo(a)pyrene	23.280	252	1456317	21.47 ng/uL#	89
97) Indeno(1,2,3-cd)pyrene	25.069	276	1434149	21.52 ng/uL	97
98) Dibenz(a,h)anthracene	25.104	278	1157899	21.77 ng/uL	97
99) Benzo(g,h,i)Perylene	25.588	276	1191466	20.90 ng/uL	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 20bna0518.D
Acq On : 18 May 2012 13:16
Operator : JLB
Sample : 20bna0518 Inst : 308
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 18 13:41:39 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:07:50 2012
Response via : Initial Calibration

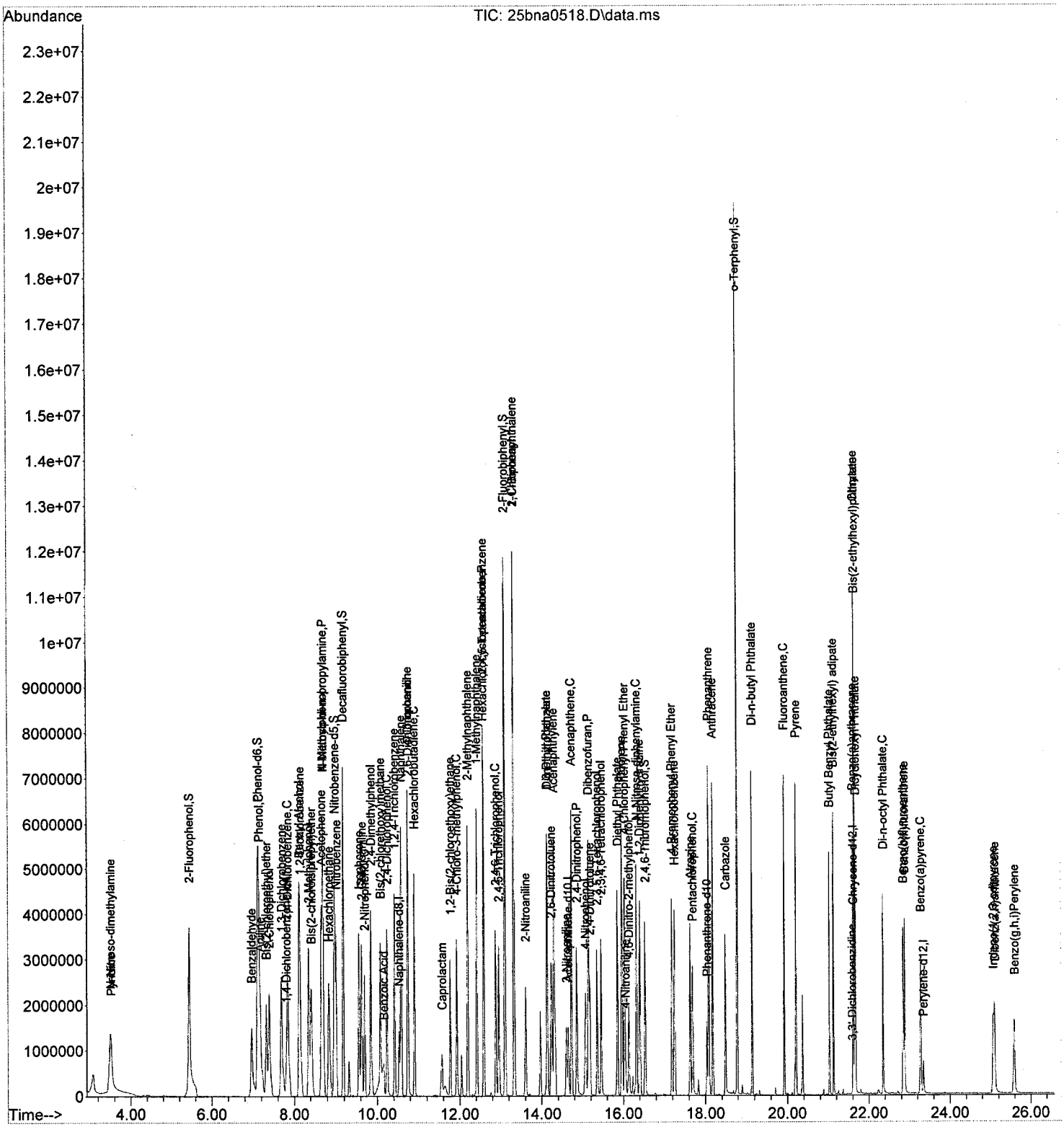
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 25bna0518.D
Acq On : 18 May 2012 13:51
Operator : JLB
Sample : 25bna0518 Inst : 308
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 14:16:36 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:42:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 25bna0518.D
Acq On : 18 May 2012 13:51
Operator : JLB
Sample : 25bna0518 Inst : 308
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 14:16:36 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:42:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.810	152	271443	5.00	ng/uL	# 0.00
21) Naphthalene-d8	10.538	136	1099317	5.00	ng/uL	0.00
43) Acenaphthene-d10	14.653	164	580067	5.00	ng/uL	0.00
67) Phenanthrene-d10	18.046	188	889723	5.00	ng/uL	# 0.00
82) Chrysene-d12	21.624	240	439539	5.00	ng/uL	# 0.00
93) Perylene-d12	23.350	264	388044	5.00	ng/uL	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.450	112	3589638	53.81	ng/uL	0.01
7) Phenol-d6	7.128	99	4128267	53.81	ng/uL	0.01
22) Nitrobenzene-d5	8.982	82	3996047	54.04	ng/uL	0.00
24) Decafluorobiphenyl	9.186	334	2905602	54.39	ng/uL	0.00
48) 2-Fluorobiphenyl	13.120	172	6886454	51.80	ng/uL	0.00
71) 2,4,6-Tribromophenol	16.548	330	669425	60.55	ng/uL	0.00
79) o-Terphenyl	18.792	230	4732672	53.45	ng/uL	0.00
Target Compounds						Qvalue
2) N-Nitroso-dimethylamine	3.509	74	1075251	26.65	ng/uL	94
3) Pyridine	3.521	79	2096512	25.36	ng/uL	87
5) Aniline	7.181	93	2482506	27.34	ng/uL#	34
6) Benzaldehyde	6.971	105	926922	21.82	ng/uL#	1
8) Phenol	7.152	94	2234820	26.52	ng/uL#	58
9) Bis(2-chloroethyl)ether	7.327	93	1741213	25.56	ng/uL	100
10) 2-Chlorophenol	7.397	128	1705304	26.55	ng/uL#	35
11) 1,3-Dichlorobenzene	7.694	146	1983946	25.26	ng/uL	95
12) 1,4-Dichlorobenzene	7.840	146	1911080	25.15	ng/uL	94
13) 1,2-Dichlorobenzene	8.143	146	1889642	25.63	ng/uL	94
14) Bis(2-chloroisipropyl)...	8.422	45	2720839	26.44	ng/uL	94
15) Benzyl Alcohol	8.119	108	1127391	27.26	ng/uL	96
16) 2-Methylphenol	8.358	108	1466568	26.57	ng/uL	91
17) Acetophenone	8.667	105	2361550	26.63	ng/uL#	81
18) Hexachloroethane	8.842	119	735560	26.56	ng/uL	96
19) 4-Methylphenol	8.702	107	1690850	26.48	ng/uL#	43
20) N-Nitroso-di-n-propyla...	8.708	70	1282764	27.12	ng/uL#	69
23) Nitrobenzene	9.017	77	2003308	26.03	ng/uL#	1
25) Isophorone	9.571	82	3050168	27.62	ng/uL	96
26) 2-Chloroaniline	9.635	127	2034828	26.30	ng/uL	97
27) 2-Nitrophenol	9.705	139	893038	28.11	ng/uL#	91
28) 2,4-Dimethylphenol	9.856	107	1575713	26.43	ng/uL	92
29) Bis(2-chlorethoxy)methane	10.084	93	1651398	26.06	ng/uL	94
30) 2,4-Dichlorophenol	10.241	162	1257854	26.70	ng/uL	100
31) Benzoic Acid	10.165	105	1207252	41.39	ng/uL	94
32) 1,2,4-Trichlorobenzene	10.427	180	1547863	25.63	ng/uL	98
33) Naphthalene	10.591	128	4798659	25.59	ng/uL	97
34) 4-Chloroaniline	10.754	127	1779865	27.21	ng/uL#	79
35) 2,6-Dichlorophenol	10.760	162	1293636	26.68	ng/uL	90
36) Hexachlorobutadiene	10.911	225	970377	26.16	ng/uL	97
37) Caprolactam	11.570	55	606609	34.20	ng/uL	93
38) 1,2-Bis(2-chloroethoxy...	11.780	63	1313066	27.34	ng/uL#	100
39) 4-Chloro-3-methylphenol	11.937	107	1299531	27.93	ng/uL	95
40) 2-Methylnaphthalene	12.205	142	3098162	23.25	ng/uL	97
41) 1-Methylnaphthalene	12.427	142	3036522	25.79	ng/uL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 25bna0518.D
Acq On : 18 May 2012 13:51
Operator : JLB
Sample : 25bna0518 Inst : 308
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 14:16:36 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:42:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.146	168	504398	31.56 ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.596	216	1483810	25.34 ng/uL	99
45) Hexachlorocyclopentadiene	12.590	237	972340	29.72 ng/uL	97
46) 2,4,6-Trichlorophenol	12.887	196	891409	27.34 ng/uL	96
47) 2,4,5-Trichlorophenol	12.963	196	899420	27.56 ng/uL	99
49) 2-Chloronaphthalene	13.336	162	2860596	24.67 ng/uL	94
50) 1,1'-Biphenyl	13.336	154	3692057	25.72 ng/uL	98
51) 2-Nitroaniline	13.616	138	809148	29.51 ng/uL	89
52) Acenaphthylene	14.309	152	4364146	25.67 ng/uL#	85
53) 2,6-Dinitrotoluene	14.245	165	702437	28.69 ng/uL	94
54) Dimethyl Phthalate	14.146	163	3047136	27.69 ng/uL	96
55) 3-Nitroaniline	14.607	138	475004	26.96 ng/uL#	1
56) Acenaphthene	14.735	153	2745526	25.27 ng/uL	98
57) 2,4-Dinitrophenol	14.869	184	889816	88.53 ng/uL	99
58) Dibenzofuran	15.155	168	3818652	25.68 ng/uL	98
59) 4-Nitrophenol	15.079	65	984944	63.12 ng/uL#	82
60) 2,4-Dinitrotoluene	15.189	165	874862	29.55 ng/uL#	78
61) 2,3,5,6-Tetrachlorophenol	15.364	232	726886	29.55 ng/uL	97
62) 2,3,4,6-Tetrachlorophenol	15.463	232	717943	29.80 ng/uL	98
63) Fluorene	15.971	166	3085542	26.96 ng/uL#	94
64) Diethyl Phthalate	15.866	149	3184300	28.01 ng/uL	96
65) 4-Chlorophenyl Phenyl ...	16.040	204	1447816	25.55 ng/uL	89
66) 4-Nitroaniline	16.058	138	218210	19.10 ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.145	198	537709	37.59 ng/uL	92
69) N-Nitroso-diphenylamine	16.338	169	2358902	25.91 ng/uL	99
70) 1,2-Diphenylhydrazine	16.413	182	772316	26.76 ng/uL	92
72) 4-Bromophenyl Phenyl E...	17.195	248	788025	26.57 ng/uL	97
73) Hexachlorobenzene	17.259	284	839332	25.08 ng/uL	96
74) Atrazine	17.643	200	703300	27.60 ng/uL	99
75) Pentachlorophenol	17.696	266	474999	31.27 ng/uL	97
76) Phenanthrene	18.092	178	3996441	25.84 ng/uL	99
77) Anthracene	18.185	178	4036359	26.90 ng/uL	98
78) Carbazole	18.494	167	2632497	25.09 ng/uL	94
80) Di-n-butyl Phthalate	19.159	149	4321182	28.05 ng/uL	100
81) Fluoroanthene	19.934	202	3519383	26.31 ng/uL#	86
83) Benzidine	0.000		0	N.D.	
84) Pyrene	20.220	202	3473712	26.37 ng/uL#	91
85) Butyl Benzyl Phthalate	21.036	149	1269852	28.00 ng/uL	88
86) Bis(2-ethylhexyl) adipate	21.135	129	1015732	27.45 ng/uL#	100
87) Benzo(a)anthracene	21.613	228	2476803	26.00 ng/uL#	97
88) 3,3'-Dichlorobenzidine	21.595	252	248	0.36 ng/uL#	63
89) Chrysene	21.653	228	2393513	24.57 ng/uL	99
90) Bis(2-ethylhexyl)phtha...	21.659	149	1835090	30.81 ng/uL	99
91) Dicyclohexyl Phthalate	21.683	149	1755919	23.35 ng/uL#	100
92) Di-n-octyl Phthalate	22.359	149	2301234	28.17 ng/uL	100
94) Benzo(b)fluoroanthene	22.848	252	1976377	26.72 ng/uL#	96
95) Benzo(k)fluoranthene	22.883	252	1979316	26.17 ng/uL#	89
96) Benzo(a)pyrene	23.280	252	1837065	26.64 ng/uL#	88
97) Indeno(1,2,3-cd)pyrene	25.075	276	1851610	27.33 ng/uL	96
98) Dibenz(a,h)anthracene	25.110	278	1472832	27.16 ng/uL	98
99) Benzo(g,h,i)Perylene	25.594	276	1523131	26.30 ng/uL	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 25bna0518.D
Acq On : 18 May 2012 13:51
Operator : JLB
Sample : 25bna0518 Inst : 308
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 14:16:36 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 13:42:43 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

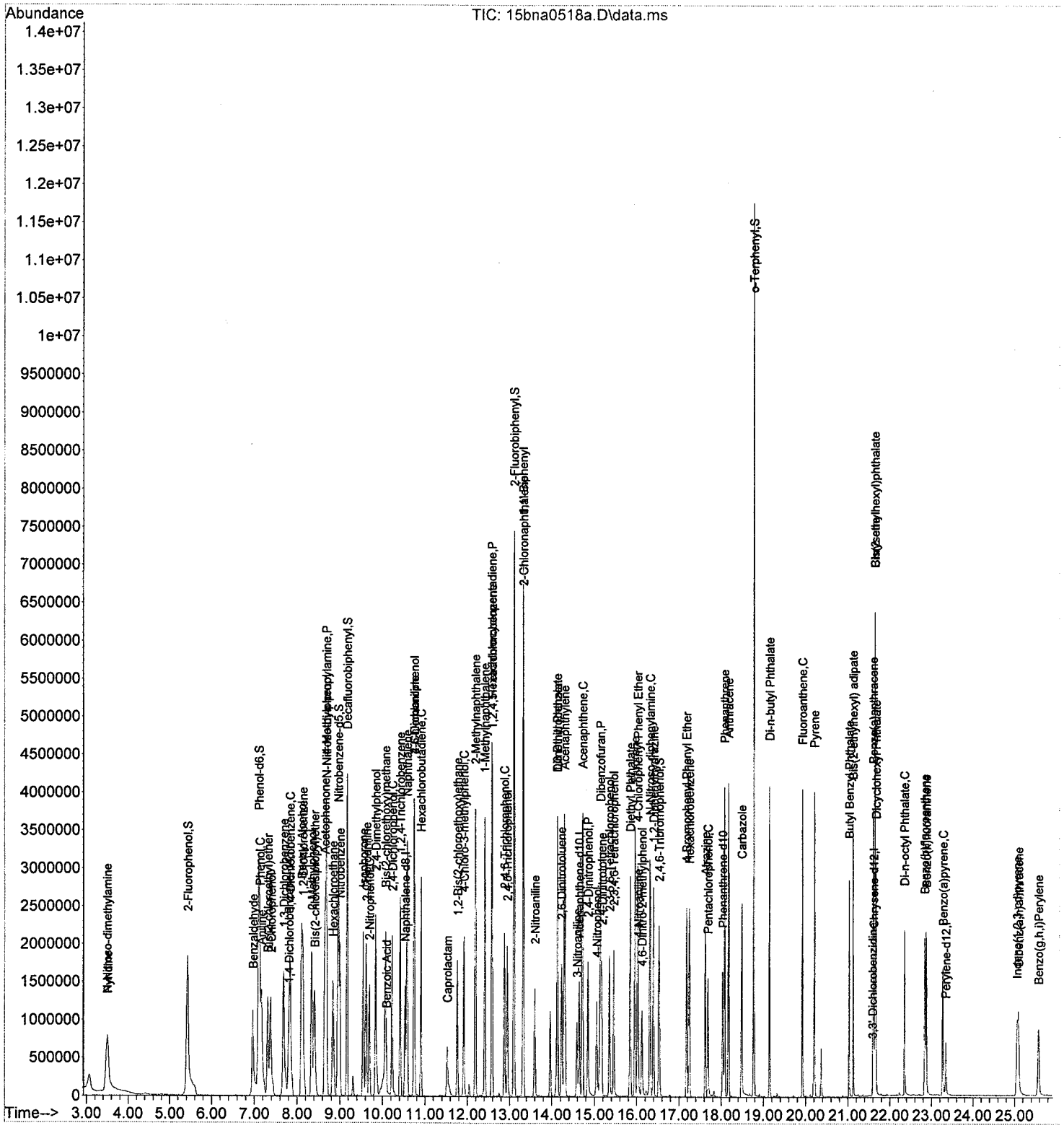
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00974

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 15bna0518a.D
Acq On : 18 May 2012 14:26
Operator : JLB
Sample : 15bna0518a Inst : 308
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 18 14:54:48 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:54:44 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 15bna0518a.D
Acq On : 18 May 2012 14:26
Operator : JLB
Sample : 15bna0518a Inst : 308
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 18 14:54:48 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:54:44 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.810	152	269256	5.00	ng/uL	# 0.00
21) Naphthalene-d8	10.538	136	1077458	5.00	ng/uL	0.00
43) Acenaphthene-d10	14.647	164	588771	5.00	ng/uL	0.00
67) Phenanthrene-d10	18.040	188	889384	5.00	ng/uL	0.00
82) Chrysene-d12	21.624	240	417868	5.00	ng/uL	# 0.00
93) Perylene-d12	23.349	264	376276	5.00	ng/uL	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.432	112	2091065	31.56	ng/uL	0.00
7) Phenol-d6	7.111	99	2415533	31.53	ng/uL	0.00
22) Nitrobenzene-d5	8.970	82	2318326	31.49	ng/uL	0.00
24) Decafluorobiphenyl	9.180	334	1650640	31.22	ng/uL	0.00
48) 2-Fluorobiphenyl	13.114	172	3984437	29.35	ng/uL	0.00
71) 2,4,6-Tribromophenol	16.536	330	372499	33.07	ng/uL	0.00
79) o-Terphenyl	18.786	230	2677282	30.01	ng/uL	0.00
Target Compounds						Qvalue
2) N-Nitroso-dimethylamine	3.497	74	618945	15.39	ng/uL	92
3) Pyridine	3.515	79	1218955	14.68	ng/uL	88
5) Aniline	7.175	93	1441956	15.80	ng/uL	91
6) Benzaldehyde	6.977	105	656060	15.58	ng/uL#	1
8) Phenol	7.134	94	1293319	15.34	ng/uL#	57
9) Bis(2-chloroethyl)ether	7.321	93	1032801	15.21	ng/uL	100
10) 2-Chlorophenol	7.391	128	994831	15.57	ng/uL#	34
11) 1,3-Dichlorobenzene	7.688	146	1179321	15.11	ng/uL	96
12) 1,4-Dichlorobenzene	7.839	146	1118409	14.86	ng/uL	95
13) 1,2-Dichlorobenzene	8.143	146	1099938	15.00	ng/uL	94
14) Bis(2-chloroisipropyl)...	8.416	45	1604807	15.16	ng/uL	94
15) Benzyl Alcohol	8.113	108	651295	15.78	ng/uL	97
16) 2-Methylphenol	8.352	108	849851	15.40	ng/uL#	90
17) Acetophenone	8.661	105	1362328	15.32	ng/uL#	81
18) Hexachloroethane	8.842	119	425649	15.33	ng/uL	96
19) 4-Methylphenol	8.690	107	985595	15.42	ng/uL#	43
20) N-Nitroso-di-n-propyla...	8.696	70	731447	15.28	ng/uL#	64
23) Nitrobenzene	9.005	77	1154120	15.07	ng/uL#	1
25) Isophorone	9.553	82	1722980	15.70	ng/uL	97
26) 2-Chloroaniline	9.629	127	1168572	15.33	ng/uL	96
27) 2-Nitrophenol	9.699	139	510009	16.27	ng/uL#	91
28) 2,4-Dimethylphenol	9.844	107	906901	15.34	ng/uL	93
29) Bis(2-chlorethoxy)methane	10.078	93	950165	15.17	ng/uL	94
30) 2,4-Dichlorophenol	10.235	162	729632	15.71	ng/uL	98
31) Benzoic Acid	10.101	105	688983	15.25	ng/uL	95
32) 1,2,4-Trichlorobenzene	10.422	180	892542	14.94	ng/uL	99
33) Naphthalene	10.585	128	2744234	14.89	ng/uL	97
34) 4-Chloroaniline	10.748	127	1032069	15.94	ng/uL#	77
35) 2,6-Dichlorophenol	10.748	162	745214	15.56	ng/uL	88
36) Hexachlorobutadiene	10.911	225	562700	15.26	ng/uL	97
37) Caprolactam	11.535	55	336194	14.68	ng/uL	93
38) 1,2-Bis(2-chloroethoxy...	11.774	63	758434	16.05	ng/uL#	100
39) 4-Chloro-3-methylphenol	11.925	107	770652	16.64	ng/uL	95
40) 2-Methylnaphthalene	12.199	142	1808359	15.23	ng/uL	97
41) 1-Methylnaphthalene	12.421	142	1745528	15.14	ng/uL	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 15bna0518a.D
Acq On : 18 May 2012 14:26
Operator : JLB
Sample : 15bna0518a Inst : 308
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 18 14:54:48 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:54:44 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.134	168	281315	14.58	ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.596	216	849372	14.22	ng/uL	99
45) Hexachlorocyclopentadiene	12.590	237	531492	13.96	ng/uL	97
46) 2,4,6-Trichlorophenol	12.881	196	519927	15.51	ng/uL	96
47) 2,4,5-Trichlorophenol	12.951	196	525747	15.65	ng/uL	99
49) 2-Chloronaphthalene	13.336	162	1659458	14.11	ng/uL	94
50) 1,1'-Biphenyl	13.330	154	2107999	14.45	ng/uL	98
51) 2-Nitroaniline	13.610	138	466879	14.43	ng/uL	93
52) Acenaphthylene	14.303	152	2595934	15.07	ng/uL#	85
53) 2,6-Dinitrotoluene	14.233	165	397227	14.34	ng/uL	93
54) Dimethyl Phthalate	14.134	163	1745326	15.50	ng/uL	94
55) 3-Nitroaniline	14.595	138	285050	14.65	ng/uL#	1
56) Acenaphthene	14.729	153	1621292	14.70	ng/uL	99
57) 2,4-Dinitrophenol	14.857	184	469486	28.67	ng/uL	99
58) Dibenzofuran	15.149	168	2219160	14.61	ng/uL	97
59) 4-Nitrophenol	15.061	65	541336	28.10	ng/uL#	82
60) 2,4-Dinitrotoluene	15.178	165	496899	14.22	ng/uL#	73
61) 2,3,5,6-Tetrachlorophenol	15.358	232	408162	14.21	ng/uL	97
62) 2,3,4,6-Tetrachlorophenol	15.457	232	398064	14.22	ng/uL	97
63) Fluorene	15.965	166	1758578	15.03	ng/uL#	95
64) Diethyl Phthalate	15.854	149	1859350	14.59	ng/uL	96
65) 4-Chlorophenyl Phenyl ...	16.034	204	846443	14.54	ng/uL	91
66) 4-Nitroaniline	16.046	138	143486	12.30	ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.134	198	282328	14.21	ng/uL#	91
69) N-Nitroso-diphenylamine	16.326	169	1412030	15.41	ng/uL	99
70) 1,2-Diphenylhydrazine	16.408	182	459071	15.74	ng/uL	96
72) 4-Bromophenyl Phenyl E...	17.189	248	457748	15.30	ng/uL	98
73) Hexachlorobenzene	17.253	284	484127	14.31	ng/uL#	95
74) Atrazine	17.632	200	384748	15.01	ng/uL	99
75) Pentachlorophenol	17.690	266	251803	14.13	ng/uL	96
76) Phenanthrene	18.086	178	2259593	14.57	ng/uL	98
77) Anthracene	18.179	178	2290312	15.17	ng/uL	98
78) Carbazole	18.494	167	1763919	16.37	ng/uL	98
80) Di-n-butyl Phthalate	19.153	149	2355352	15.31	ng/uL	100
81) Fluoroanthene	19.928	202	1952169	14.53	ng/uL#	87
83) Benzidine	0.000		0	N.D.		
84) Pyrene	20.214	202	1964943	15.65	ng/uL#	91
85) Butyl Benzyl Phthalate	21.035	149	709683	14.78	ng/uL	87
86) Bis(2-ethylhexyl) adipate	21.129	129	552424	14.26	ng/uL#	100
87) Benzo(a)anthracene	21.613	228	1368881	15.02	ng/uL#	97
88) 3,3'-Dichlorobenzidine	21.595	252	56	0.09	ng/uL#	19
89) Chrysene	21.653	228	1363792	14.67	ng/uL	98
90) Bis(2-ethylhexyl)phtha...	21.653	149	883333	13.71	ng/uL	100
91) Dicyclohexyl Phthalate	21.677	149	1118776	15.83	ng/uL#	100
92) Di-n-octyl Phthalate	22.353	149	1260770	14.52	ng/uL	100
94) Benzo(b)fluoroanthene	22.842	252	1076559	15.05	ng/uL	97
95) Benzo(k)fluoranthene	22.877	252	1141346	15.57	ng/uL#	90
96) Benzo(a)pyrene	23.279	252	1014543	15.28	ng/uL#	90
97) Indeno(1,2,3-cd)pyrene	25.063	276	1020630	15.55	ng/uL	96
98) Dibenz(a,h)anthracene	25.098	278	808169	15.41	ng/uL	99
99) Benzo(g,h,i)Perylene	25.582	276	841514	14.96	ng/uL	92

00977

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : 15bna0518a.D
Acq On : 18 May 2012 14:26
Operator : JLB
Sample : 15bna0518a Inst : 308
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 18 14:54:48 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:54:44 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050712
Client: TechLaw
Project: KNM
Laboratory ID: 2E23075-SCV1
Standard ID: 2050114
Sequence: 2E23075
Calibration: 2E23023

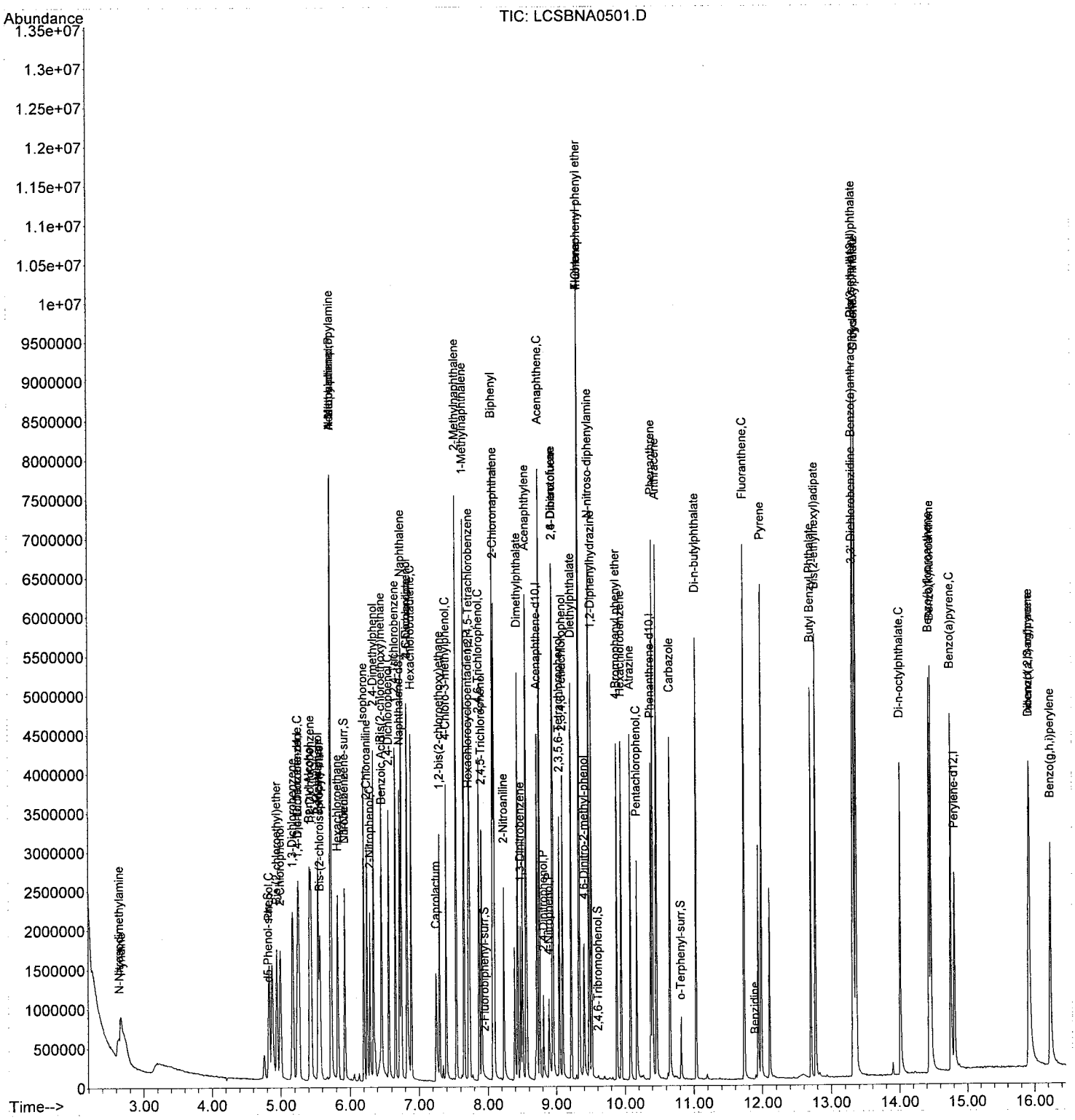
Analyte	Expected (ug/mL)	Found (ug/mL)	% Rec.	QC Limit
Acenaphthene	10.0	9.47	95	70-130
Acenaphthylene	10.0	9.61	96	70-130
Anthracene	10.0	9.86	99	70-130
Benzo(a)anthracene	10.0	9.62	96	70-130
Benzo(a)pyrene	10.0	9.96	100	70-130
Benzo(b)fluoranthene	10.0	9.36	94	70-130
Benzo(k)fluoranthene	10.0	10.2	102	70-130
Benzo(g,h,i)perylene	10.0	9.79	98	70-130
Chrysene	10.0	9.75	98	70-130
Dibenz(a,h)anthracene	10.0	9.84	98	70-130
Fluoranthene	10.0	9.73	97	70-130
Fluorene	10.0	9.49	95	70-130
Indeno(1,2,3-cd)pyrene	10.0	10.2	102	70-130
2-Methylnaphthalene	10.0	9.84	98	70-130
Naphthalene	10.0	9.69	97	70-130
Phenanthrene	10.0	9.78	98	70-130
Pyrene	10.0	10.0	100	70-130

* Values outside of QC limits

00979

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : LCSBNA0501.D
Acq On : 1 May 2012 15:49
Operator : DMC
Sample : LCSBNA0501
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 01 16:07:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:44:55 2012
Response via : Initial Calibration



00980

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : LCSBNA0501.D
Acq On : 1 May 2012 15:49
Operator : DMC
Sample : LCSBNA0501
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 01 16:07:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:44:55 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	5.24	152	358639	5.00	ug/l	0.00 99.01%
21) Naphthalene-d8	6.72	136	1578599	5.00	ug/l	0.00 100.47%
42) Acenaphthene-d10	8.72	164	917564	5.00	ug/l	0.00 101.92%
65) Phenanthrene-d10	10.38	188	1485487	5.00	ug/l	0.00 102.32%
79) Chrysene-d12	13.33	240	907864	5.00	ug/l	0.00 102.14%
90) Perylene-d12	14.81	264	1044879	5.00	ug/l	0.00 99.33%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	0.00	112	0	0.00	ug/l	
5) d5-Phenol-surr	4.81	99	1650	0.02	ug/l	0.00
19) Decafluorobiphenyl	0.00	334	0	0.00	ug/l	
22) D5-Nitrobenzene-surr	5.92	128	1464	0.03	ug/l	0.02
47) 2-Fluorobiphenyl-surr	7.96	172	2737	0.01	ug/l	0.00
64) 2,4,6-Tribromophenol	9.61	330	3056	0.14	ug/l	0.00
76) o-Terphenyl-surr	10.81	230	6314	0.05	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.64	74	508940	9.33	ug/l #	75
3) Pyridine	2.68	79	1014386	10.11	ug/l #	68
6) Phenol	4.83	94	1185868	10.44	ug/l #	46
7) Bis (2-chloroethyl)ether	4.94	93	967188	9.43	ug/l #	72
8) 2-Chlorophenol	5.00	128	974216	9.89	ug/l #	87
9) 1,3-Dichlorobenzene	5.17	146	1101421	9.65	ug/l #	90
10) 1,4-Dichlorobenzene	5.26	146	1078617	9.60	ug/l #	89
11) Benzaldehyde	5.54	105	7101	11.10	ug/l #	1
12) Benzyl Alcohol	5.42	108	591180	10.43	ug/l	90
13) 1,2-Dichlorobenzene	5.44	146	1019550	9.54	ug/l #	89
14) 2-Methylphenol	5.54	108	866994	9.93	ug/l #	95
15) Bis-(2-chloroisopropyl)-et	5.57	45	1025974	8.42	ug/l	94
16) Acetophenone	5.72	105	1219265	9.98	ug/l	85
17) 4-Methylphenol	5.73	107	961905	10.41	ug/l	92
18) N-Nitrosodi-n-propylamine	5.73	70	558291	9.35	ug/l #	87
20) Hexachloroethane	5.82	117	383053	9.71	ug/l	92
23) Nitrobenzene	5.92	77	918174	10.17	ug/l	93
24) Isophorone	6.20	82	1600716	9.35	ug/l #	92
25) 2-Chloroaniline	6.25	127	1090248	9.58	ug/l #	100
26) 2-Nitrophenol	6.29	139	543625	10.06	ug/l #	77
27) 2,4-Dimethylphenol	6.35	107	856224	9.65	ug/l	93
28) Benzoic Acid	6.47	105	533459	9.96	ug/l	91
29) Bis(2-chloroethoxy)methane	6.46	93	999494	9.32	ug/l	91
30) 2,4-Dichlorophenol	6.56	162	759844	10.23	ug/l	96
31) 1,2,4-Trichlorobenzene	6.66	180	884444	9.23	ug/l	98
32) Naphthalene	6.74	128	2771151	9.69	ug/l	96
33) 4-Chloroaniline	6.83	127	888270	25.71	ug/l #	41
34) 2,6-Dichlorophenol	6.83	162	762530	10.32	ug/l	97

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : LCSBNA0501.D
Acq On : 1 May 2012 15:49
Operator : DMC
Sample : LCSBNA0501
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 01 16:07:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:44:55 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.89	225	447629	9.73	ug/l		97
36) Caprolactum	7.25	55	321337	10.42	ug/l		93
37) 1,2-bis(2-chloroethoxy)eth	7.30	63	674729	8.32	ug/l		93
38) 4-Chloro-3-methylphenol	7.40	107	727954	10.14	ug/l		88
39) 2-Methylnaphthalene	7.54	142	1940280	9.84	ug/l		95
40) 1-Methylnaphthalene	7.65	142	1982397	10.49	ug/l		91
41) 1,3-Dinitrobenzene	8.48	168	316798	9.25	ug/l		100
43) Hexachlorocyclopentadiene	7.72	237	412731	9.85	ug/l		99
44) 1,2,4,5-Tetrachlorobenzene	7.73	216	805671	9.56	ug/l		98
45) 2,4,6-Trichlorophenol	7.87	196	531447	10.31	ug/l		94
46) 2,4,5-Trichlorophenol	7.91	198	561001	10.79	ug/l		96
48) 2-Chloronaphthalene	8.09	162	1702432	9.52	ug/l		99
49) Biphenyl	8.08	154	2360513	10.36	ug/l		91
50) 2-Nitroaniline	8.23	138	580753	11.09	ug/l	#	78
51) Dimethylphthalate	8.44	163	1900350	9.48	ug/l	#	91
52) 2,6-Dinitrotoluene	8.96	165	524896	11.78	ug/l		86
53) Acenaphthylene	8.56	152	2710314	9.61	ug/l		99
54) Acenaphthene	8.76	154	1621776	9.47	ug/l		97
55) 4-Nitrophenol	8.90	65	208091	9.14	ug/l	#	75
56) 2,4-Dinitrotoluene	8.96	165	534590	10.30	ug/l	#	74
57) 2,4-Dinitrophenol	8.82	184	194698	10.77	ug/l	#	81
58) Dibenzofuran	8.95	168	2346313	9.37	ug/l	#	98
59) 2,3,5,6-Tetrachlorophenol	9.05	232	430720	10.21	ug/l		96
60) 2,3,4,6-Tetrachlorophenol	9.10	232	460107	10.73	ug/l		98
61) Diethylphthalate	9.22	149	1759557	9.69	ug/l		99
62) 4-Chlorophenyl phenyl ethe	9.34	204	905143	9.31	ug/l	#	90
63) Fluorene	9.33	166	1920466	9.49	ug/l	#	96
66) 4,6-Dinitro-2-methyl-pheno	9.41	198	294803	10.27	ug/l	#	86
67) 1,2-Diphenylhydrazine	9.51	77	1656869	9.82	ug/l	#	87
68) N-nitroso-diphenylamine	9.48	169	1621254	9.75	ug/l	#	96
69) 4-Bromophenyl phenyl ether	9.88	248	505976	9.86	ug/l		98
70) Hexachlorobenzene	9.95	284	536655	9.67	ug/l		94
71) Atrazine	10.08	200	470030	10.52	ug/l		98
72) Pentachlorophenol	10.17	266	308180	9.18	ug/l		96
73) Phenanthrene	10.41	178	2579186	9.78	ug/l		98
74) Anthracene	10.46	178	2593301	9.86	ug/l		98
75) Carbazole	10.66	167	1939816	10.57	ug/l	#	94
77) Di-n-butylphthalate	11.03	149	2696055	10.23	ug/l		99
78) Fluoranthene	11.73	202	2565301	9.73	ug/l		95
80) Benzidine	11.88	184	1123	0.02	ug/l	#	80
81) Pyrene	11.99	202	2727141	10.05	ug/l		98
82) Butyl Benzyl Phthalate	12.71	149	1095618m	10.45	ug/l	#	97
83) Bis(2-ethylhexyl)adipate	12.77	129	950244	10.33	ug/l	#	86
84) Bis(2-ethylhexyl)phthalate	13.33	149	1353293	10.06	ug/l		99
85) Dicyclohexylphthalate	13.37	149	1949493	10.53	ug/l	#	84
86) 3,3' Dichlorobenzidine	13.31	252	14926	0.24	ug/l	#	73
87) Benzo(a)anthracene	13.32	228	2145341	9.62	ug/l		96
88) Chrysene	13.36	228	2247143	9.75	ug/l	#	90
89) Di-n-octylphthalate	14.01	149	2218394	9.09	ug/l	#	100
91) Benzo(b)fluoroanthene	14.44	252	1969588	9.36	ug/l		99
92) Benzo(k)fluoroanthene	14.46	252	2324115	10.18	ug/l		98
93) Benzo(a)pyrene	14.75	252	2016736	9.96	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : LCSBNA0501.D
Acq On : 1 May 2012 15:49
Operator : DMC
Sample : LCSBNA0501
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 01 16:07:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:44:55 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.91	276	2067382	10.20	ug/l	98
95) Dibenzo(a,h)anthracene	15.92	278	1603900	9.84	ug/l	94
96) Benzo(g,h,i)perylene	16.24	276	1827434	9.79	ug/l	99

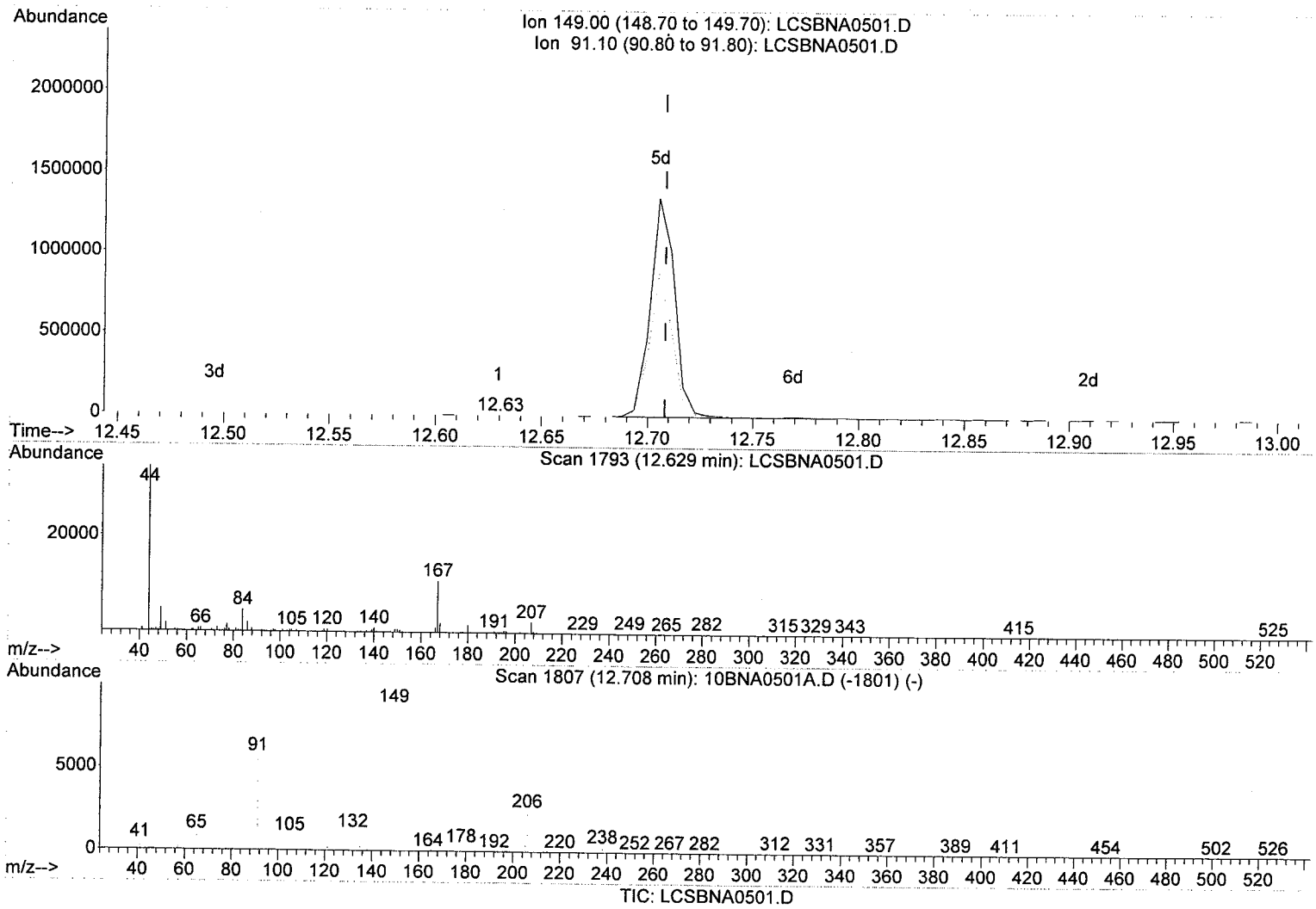
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00983

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : LCSBNA0501.D
Acq On : 1 May 2012 15:49
Operator : DMC
Sample : LCSBNA0501
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 01 16:06:10 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:44:55 2012
Response via : Initial Calibration



(82) Butyl Benzyl Phthalate

12.63min (-0.079) 0.01ug/l

response 1271

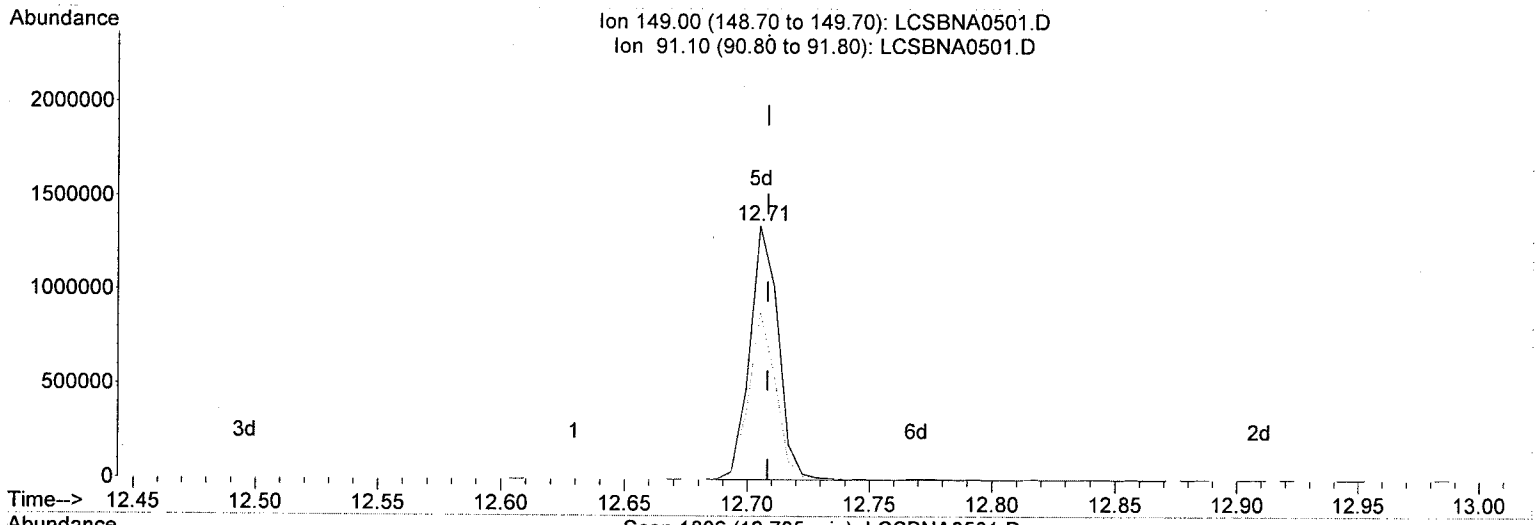
Ion	Exp%	Act%
149.00	100	100
91.10	80.80	83.16
0.00	0.00	0.00
0.00	0.00	0.00

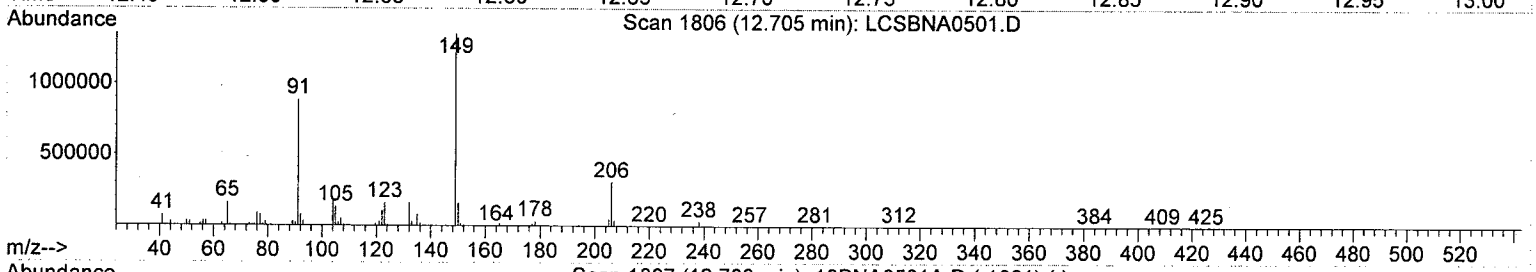
a 5 JC
Jub 5/10/12

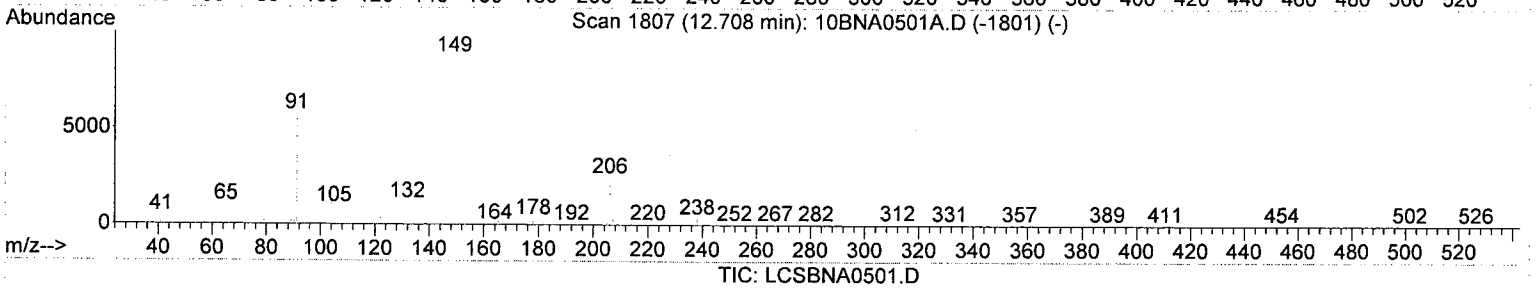
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : LCSBNA0501.D
Acq On : 1 May 2012 15:49
Operator : DMC
Sample : LCSBNA0501
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 01 16:06:10 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 15:44:55 2012
Response via : Initial Calibration







TIC: LCSBNA0501.D

(82) Butyl Benzyl Phthalate

12.71min (-0.003) 10.45ug/l m

response 1095618

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	0.10#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No
Analyst: C Date: 5/2
Reviewed By: JWB Date: 5/10/12

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050712
Client: TechLaw
Project: KNM
Laboratory ID: 2E31013-SCV1
Standard ID: 2050489
Sequence: 2E31013
Calibration: 2E31003

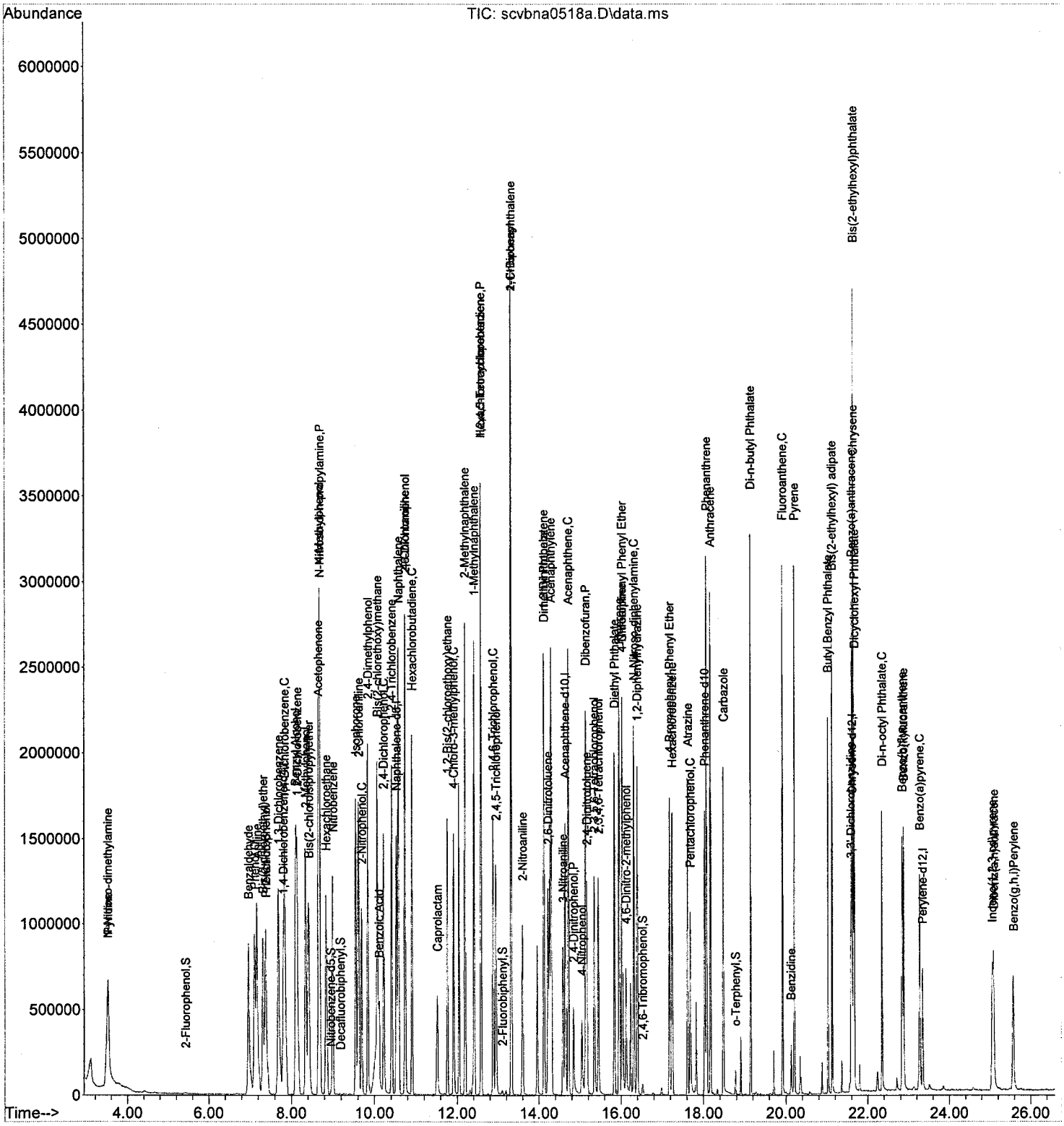
Analyte	Expected (ug/mL)	Found (ug/mL)	% Rec.	QC Limit
Acenaphthene	10.0	9.73	97	70-130
Acenaphthylene	10.0	9.86	99	70-130
Anthracene	10.0	9.91	99	70-130
Benzo(a)anthracene	10.0	10.2	102	70-130
Benzo(a)pyrene	10.0	10.6	106	70-130
Benzo(b)fluoranthene	10.0	10.3	103	70-130
Benzo(g,h,i)perylene	10.0	10.5	105	70-130
Benzo(k)fluoranthene	10.0	10.6	106	70-130
Chrysene	10.0	9.40	94	70-130
Dibenz(a,h)anthracene	10.0	10.9	109	70-130
Fluoranthene	10.0	10.1	101	70-130
Fluorene	10.0	10.2	102	70-130
Indeno(1,2,3-cd)pyrene	10.0	10.7	107	70-130
2-Methylnaphthalene	10.0	9.91	99	70-130
Naphthalene	10.0	9.99	100	70-130
Phenanthrene	10.0	9.83	98	70-130
Pyrene	10.0	10.7	107	70-130

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : scvbna0518a.D
Acq On : 18 May 2012 15:01
Operator : JLB
Sample : scvbna0518a Inst : 308
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 15:26:55 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:55:28 2012
Response via : Initial Calibration



00987

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : scvbna0518a.D
Acq On : 18 May 2012 15:01
Operator : JLB
Sample : scvbna0518a Inst : 308
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 15:26:55 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:55:28 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.811	152	305616	5.00	ng/uL	# 0.00
21) Naphthalene-d8	10.538	136	1217984	5.00	ng/uL	0.00
43) Acenaphthene-d10	14.648	164	611073	5.00	ng/uL	0.00
67) Phenanthrene-d10	18.040	188	959040	5.00	ng/uL	0.00
82) Chrysene-d12	21.624	240	449674	5.00	ng/uL	# 0.00
93) Perylene-d12	23.350	264	393682	5.00	ng/uL	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.427	112	5472	0.07	ng/uL	0.00
7) Phenol-d6	7.391	99	47667	0.55	ng/uL	0.28
22) Nitrobenzene-d5	8.959	82	7814	0.09	ng/uL	-0.01
24) Decafluorobiphenyl	9.180	334	2551	0.04	ng/uL	0.00
48) 2-Fluorobiphenyl	13.103	172	12976	0.09	ng/uL	-0.01
71) 2,4,6-Tribromophenol	16.530	330	10230	0.84	ng/uL	0.00
79) o-Terphenyl	18.780	230	32634	0.34	ng/uL	0.00
Target Compounds						Qvalue
2) N-Nitroso-dimethylamine	3.515	74	492921	10.80	ng/uL	94
3) Pyridine	3.521	79	906278	9.62	ng/uL	89
5) Aniline	7.175	93	1110384	10.72	ng/uL	99
6) Benzaldehyde	6.971	105	477716	10.00	ng/uL#	1
8) Phenol	7.123	94	993353	10.38	ng/uL#	70
9) Bis(2-chloroethyl)ether	7.321	93	744127	9.66	ng/uL	100
10) 2-Chlorophenol	7.385	128	757267	10.44	ng/uL#	38
11) 1,3-Dichlorobenzene	7.688	146	858225	9.69	ng/uL	97
12) 1,4-Dichlorobenzene	7.840	146	872134	10.21	ng/uL	95
13) 1,2-Dichlorobenzene	8.143	146	795262	9.56	ng/uL	93
14) Bis(2-chloroisipropyl)...	8.423	45	1236646	10.29	ng/uL	94
15) Benzyl Alcohol	8.108	108	484012	10.33	ng/uL	96
16) 2-Methylphenol	8.347	108	650872	10.39	ng/uL#	91
17) Acetophenone	8.656	105	1064980	10.55	ng/uL#	81
18) Hexachloroethane	8.842	119	317007	10.06	ng/uL	93
19) 4-Methylphenol	8.679	107	732459	10.09	ng/uL#	40
20) N-Nitroso-di-n-propyla...	8.691	70	555835	10.23	ng/uL#	65
23) Nitrobenzene	9.005	77	835376	9.65	ng/uL#	64
25) Isophorone	9.553	82	1376805	11.10	ng/uL	97
26) 2-Chloroaniline	9.623	127	979041	11.37	ng/uL	96
27) 2-Nitrophenol	9.699	139	365979	10.33	ng/uL#	94
28) 2,4-Dimethylphenol	9.845	107	723255	10.82	ng/uL	93
29) Bis(2-chlorethoxy)methane	10.078	93	804933	11.37	ng/uL	94
30) 2,4-Dichlorophenol	10.229	162	536529	10.22	ng/uL	100
31) Benzoic Acid	10.119	105	894430	17.33	ng/uL	95
32) 1,2,4-Trichlorobenzene	10.422	180	654735	9.70	ng/uL	100
33) Naphthalene	10.585	128	2080944	9.99	ng/uL	96
34) 4-Chloroaniline	10.742	127	749847	10.24	ng/uL#	76
35) 2,6-Dichlorophenol	10.748	162	543943	10.05	ng/uL#	87
36) Hexachlorobutadiene	10.911	225	414787	9.95	ng/uL	97
37) Caprolactam	11.529	55	240772	9.57	ng/uL	94
38) 1,2-Bis(2-chloroethoxy...	11.768	63	664069	12.43	ng/uL#	100
39) 4-Chloro-3-methylphenol	11.920	107	541453	10.34	ng/uL	95
40) 2-Methylnaphthalene	12.200	142	1330916	9.91	ng/uL	97
41) 1-Methylnaphthalene	12.421	142	1196128	9.18	ng/uL	97

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : scvbna0518a.D
Acq On : 18 May 2012 15:01
Operator : JLB
Sample : scvbna0518a Inst : 308
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 15:26:55 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:55:28 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.129	168	205426	9.66	ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.590	216	636008	10.26	ng/uL	99
45) Hexachlorocyclopentadiene	12.590	237	384332	9.87	ng/uL	97
46) 2,4,6-Trichlorophenol	12.881	196	374386	10.76	ng/uL	96
47) 2,4,5-Trichlorophenol	12.951	196	351801	10.09	ng/uL	99
49) 2-Chloronaphthalene	13.330	162	1200931	9.84	ng/uL	95
50) 1,1'-Biphenyl	13.324	154	1583029	10.46	ng/uL	98
51) 2-Nitroaniline	13.604	138	321868	9.76	ng/uL	91
52) Acenaphthylene	14.304	152	1763137	9.86	ng/uL#	85
53) 2,6-Dinitrotoluene	14.234	165	272921	9.61	ng/uL	92
54) Dimethyl Phthalate	14.135	163	1177943	10.08	ng/uL	94
55) 3-Nitroaniline	14.589	138	240252	11.92	ng/uL#	1
56) Acenaphthene	14.723	153	1113846	9.73	ng/uL	99
57) 2,4-Dinitrophenol	14.846	184	134103	10.57	ng/uL	98
58) Dibenzofuran	15.143	168	1531844	9.72	ng/uL	97
59) 4-Nitrophenol	15.050	65	166751	9.20	ng/uL#	84
60) 2,4-Dinitrotoluene	15.172	165	346882	9.73	ng/uL#	73
61) 2,3,5,6-Tetrachlorophenol	15.353	232	274251	9.38	ng/uL	97
62) 2,3,4,6-Tetrachlorophenol	15.458	232	263819	9.26	ng/uL	93
63) Fluorene	15.965	166	1244468	10.25	ng/uL#	94
64) Diethyl Phthalate	15.848	149	1279609	9.77	ng/uL	97
65) 4-Chlorophenyl Phenyl ...	16.035	204	591107	9.79	ng/uL	89
66) 4-Nitroaniline	16.035	138	159669	13.19	ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.128	198	177683m	8.77	ng/uL	
69) N-Nitroso-diphenylamine	16.320	169	949755	9.61	ng/uL	99
70) 1,2-Diphenylhydrazine	16.402	182	292495	9.30	ng/uL	89
72) 4-Bromophenyl Phenyl E...	17.189	248	312354	9.68	ng/uL	96
73) Hexachlorobenzene	17.253	284	327858	8.99	ng/uL#	94
74) Atrazine	17.632	200	299114	10.82	ng/uL	99
75) Pentachlorophenol	17.690	266	177147	9.47	ng/uL	99
76) Phenanthrene	18.086	178	1643657	9.83	ng/uL	98
77) Anthracene	18.180	178	1613518	9.91	ng/uL	97
78) Carbazole	18.494	167	1096306	9.60	ng/uL	99
80) Di-n-butyl Phthalate	19.153	149	1765309	10.64	ng/uL	99
81) Fluoroanthene	19.928	202	1469602	10.14	ng/uL#	87
83) Benzidine	20.132	184	150824	39.78	ng/uL#	93
84) Pyrene	20.214	202	1442409	10.68	ng/uL#	91
85) Butyl Benzyl Phthalate	21.030	149	526057	10.29	ng/uL	88
86) Bis(2-ethylhexyl) adipate	21.129	129	418240	10.11	ng/uL#	100
87) Benzo(a)anthracene	21.613	228	995283	10.15	ng/uL	96
88) 3,3'-Dichlorobenzidine	21.589	252	240071	345.89	ng/uL	97
89) Chrysene	21.648	228	939783	9.40	ng/uL	98
90) Bis(2-ethylhexyl)phtha...	21.654	149	669254	9.82	ng/uL	100
91) Dicyclohexyl Phthalate	21.677	149	825231	10.85	ng/uL#	100
92) Di-n-octyl Phthalate	22.353	149	935543	10.11	ng/uL	99
94) Benzo(b)fluoroanthene	22.843	252	773074	10.33	ng/uL#	96
95) Benzo(k)fluoranthene	22.878	252	812779	10.60	ng/uL#	91
96) Benzo(a)pyrene	23.274	252	737273	10.61	ng/uL#	87
97) Indeno(1,2,3-cd)pyrene	25.063	276	732687	10.67	ng/uL	97
98) Dibenz(a,h)anthracene	25.098	278	596379	10.87	ng/uL	96
99) Benzo(g,h,i)Perylene	25.582	276	616320	10.48	ng/uL	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : scvbna0518a.D
Acq On : 18 May 2012 15:01
Operator : JLB
Sample : scvbna0518a Inst : 308
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 15:26:55 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:55:28 2012
Response via : Initial Calibration

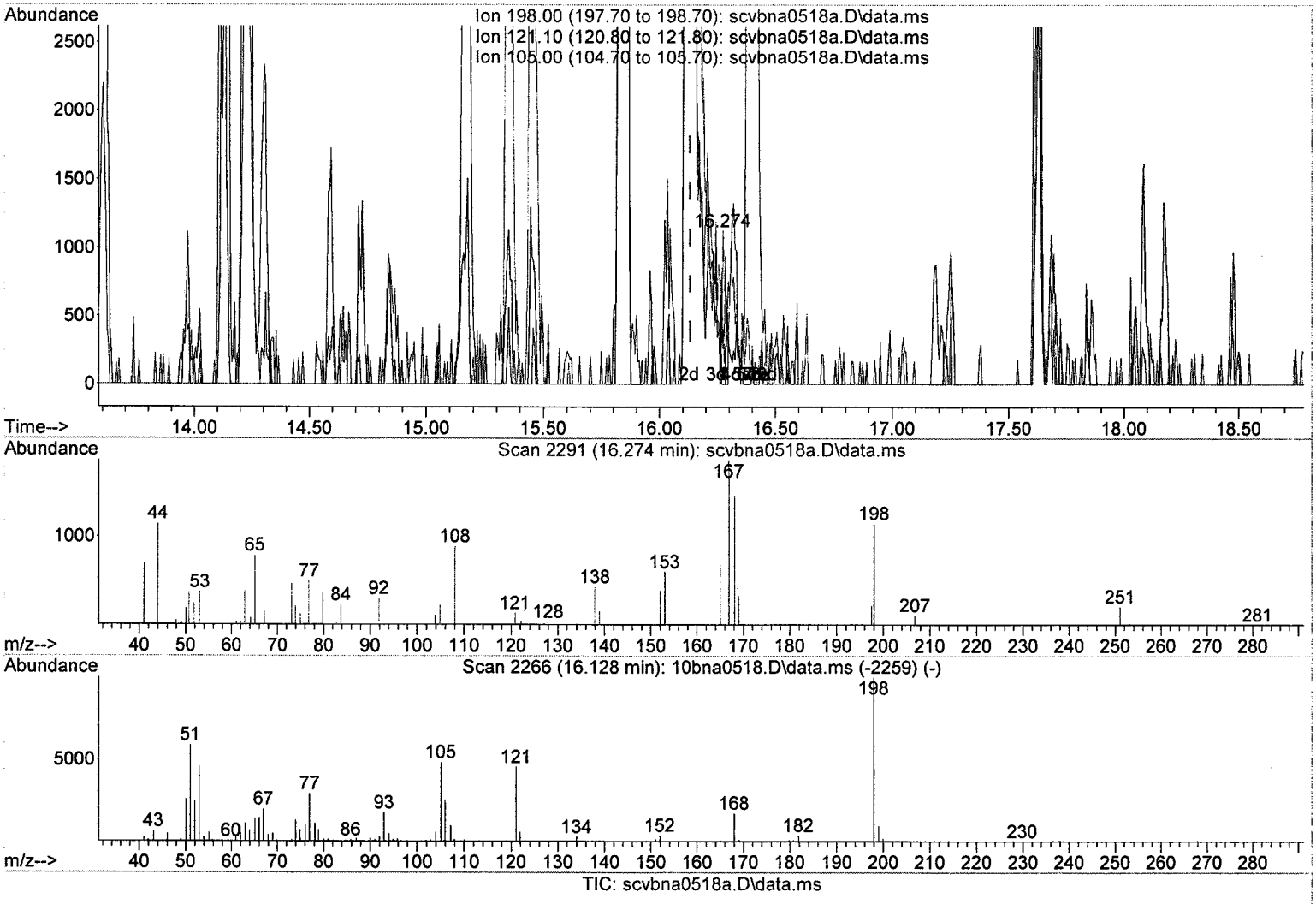
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : scvbna0518a.D
Acq On : 18 May 2012 15:01
Operator : JLB
Sample : scvbna0518a Inst : 308
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 15:26:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:55:28 2012
Response via : Initial Calibration



TIC: scvbna0518a.D\data.ms

(68) 4,6-Dinitro-2-methylphenol

16.274min (+0.140) 1.20 ng/uL

response 1156

Ion	Exp%	Act%
198.00	100	100
121.10	37.40	39.19
105.00	42.30	40.14
0.00	0.00	0.00

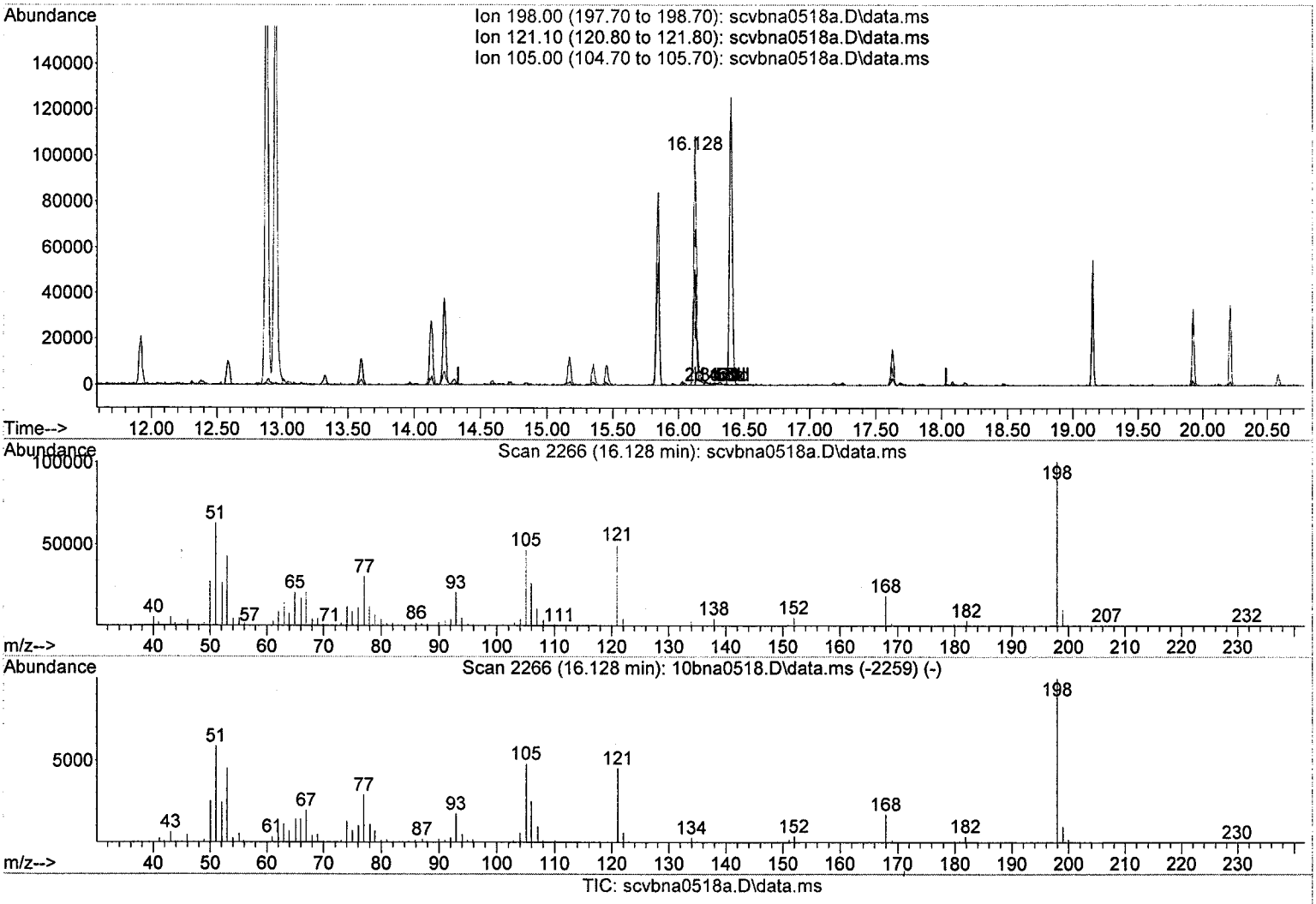
JLB 5/24/12

cD2 9/L

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : scvbna0518a.D
Acq On : 18 May 2012 15:01
Operator : JLB
Sample : scvbna0518a Inst : 308
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 15:26:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Fri May 18 14:55:28 2012
Response via : Initial Calibration



TIC: scvbna0518a.D\data.ms

(68) 4,6-Dinitro-2-methylphenol

16.128min (-0.006) 8.77 ng/uL m

response 177683

Ion	Exp%	Act%
198.00	100	100
121.10	37.40	0.25#
105.00	42.30	0.26#
0.00	0.00	0.00

Manual Integration Explanation
Reason 1: Incorrect peak integrated by the software.
Flagged on Quantitation Report: Yes / No
Reanalyst: Date: 5/24/12
Reviewed by: Date:

CONTINUING CALIBRATION CHECK

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Lab Sample ID: 2E23055-CCV1
Injection Date: 05/23/12
Calibration Date: 05/01/12 15:41
Sequence: 2E23055

SDG: KNM050712
Project: KNM
Lab File ID: 10BNA0523.D
Injection Time: 10:39
Calibration: 2E23023
Instrument ID: 195

Analyte	Type	CONC. (ug/mL)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	10.0	10.2	0.9332307	0.9489396		1.7	20
Acenaphthylene	A	10.0	10.2	1.53654	1.57286		2.4	25
Anthracene	A	10.0	10.7	0.8855303	0.9488775		7.2	25
Benzo(a)anthracene	A	10.0	9.89	1.228751	1.214906		-1.1	25
Benzo(a)pyrene	A	10.0	10.8	0.9689702	1.041326		7.5	20
Benzo(b)fluoranthene	A	10.0	9.91	1.007155	0.9976967		-0.9	25
Benzo(k)fluoranthene	A	10.0	10.9	1.091994	1.186962		8.7	25
Benzo(g,h,i)perylene	A	10.0	11.1	0.8930334	0.992776		11.2	25
Chrysene	A	10.0	10.1	1.26933	1.280339		0.9	25
Dibenz(a,h)anthracene	A	10.0	11.0	0.7803043	0.8557101		9.7	25
Fluoranthene	A	10.0	10.5	0.8869894	0.9344781		5.4	20
Fluorene	A	10.0	10.2	1.103294	1.12166		1.7	25
Indeno(1,2,3-cd)pyrene	A	10.0	10.9	0.9702577	1.054054		8.6	25
2-Methylnaphthalene	A	10.0	10.3	0.6248004	0.6410957		2.6	25
Naphthalene	A	10.0	10.3	0.9057286	0.9352116		3.3	25
Phenanthrene	A	10.0	10.3	0.887505	0.9151774		3.1	25
Pyrene	A	10.0	10.0	1.494514	1.499736		0.3	25

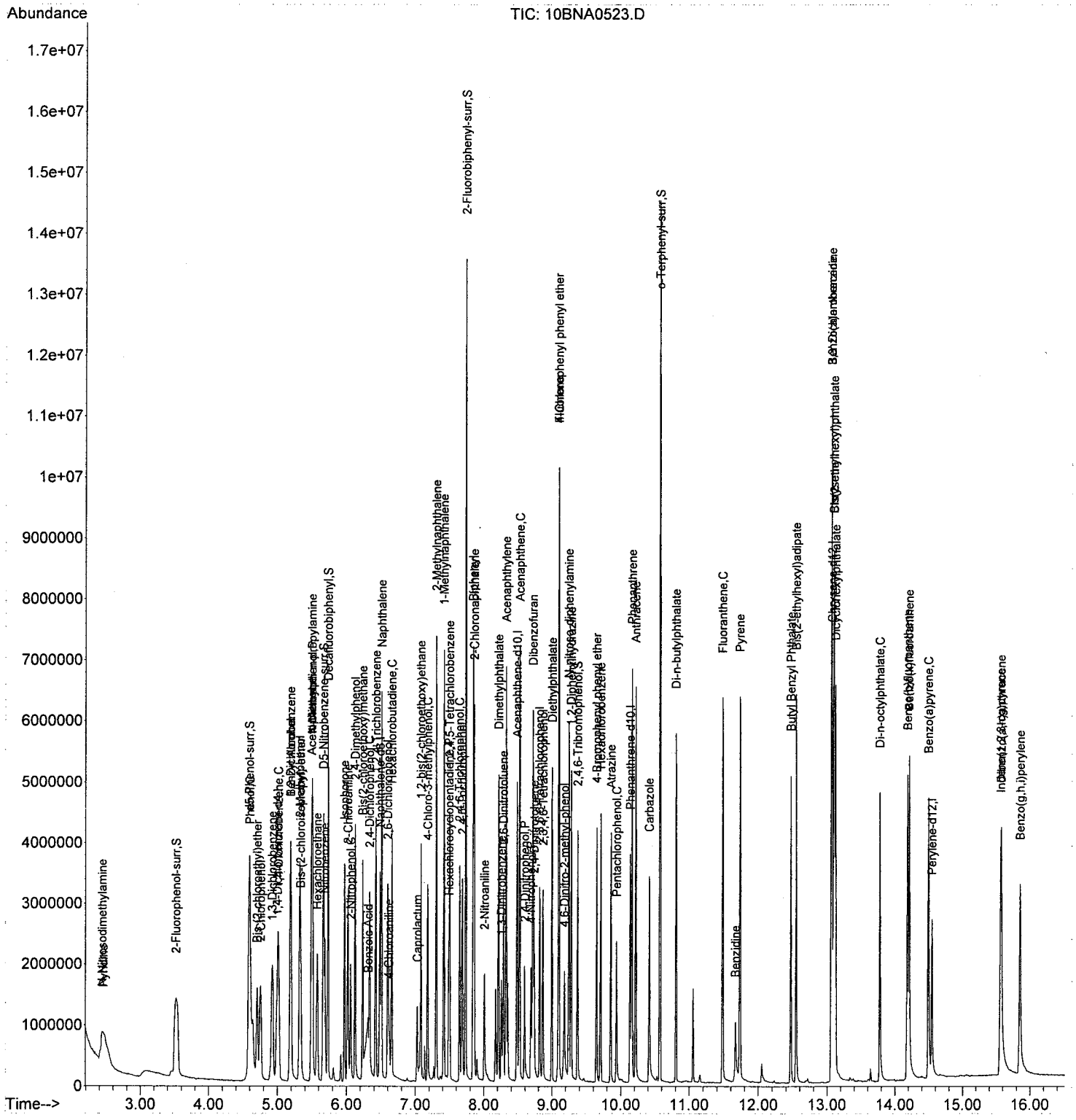
Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 10BNA0523.D
Acq On : 23 May 2012 10:39
Operator : DMC
Sample : 10BNA0523
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:11:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



00994

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 10BNA0523.D
Acq On : 23 May 2012 10:39
Operator : DMC
Sample : 10BNA0523
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:11:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	4.99	152	355951	5.00	ug/l	0.00 98.27%
21) Naphthalene-d8	6.48	136	1596859	5.00	ug/l	0.00 101.63%
42) Acenaphthene-d10	8.48	164	918764	5.00	ug/l	0.00 102.05%
65) Phenanthrene-d10	10.14	188	1444951	5.00	ug/l	0.00 99.53%
79) Chrysene-d12	13.08	240	909137	5.00	ug/l	0.00 102.28%
90) Perylene-d12	14.55	264	1036136	5.00	ug/l	0.00 98.50%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.53	112	1766283	21.12	ug/l	0.00
5) d5-Phenol-surr	4.59	99	2266701	21.48	ug/l	0.00
19) Decafluorobiphenyl	5.74	334	1588543	20.59	ug/l	0.00
22) D5-Nitrobenzene-surr	5.67	128	943592	21.07	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.74	172	4101256	20.70	ug/l	0.00
64) 2,4,6-Tribromophenol	9.37	330	427516	20.20	ug/l	0.00
76) o-Terphenyl-surr	10.57	230	2825465	21.16	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.44	74	527230	9.73	ug/l #	80
3) Pyridine	2.46	79	1037807	10.43	ug/l #	69
6) Phenol	4.60	94	1227239	10.88	ug/l	93
7) Bis (2-chloroethyl)ether	4.71	93	1039234	10.21	ug/l #	75
8) 2-Chlorophenol	4.76	128	1043303	10.67	ug/l #	82
9) 1,3-Dichlorobenzene	4.92	146	1160067	10.24	ug/l #	88
10) 1,4-Dichlorobenzene	5.02	146	1170880	10.50	ug/l #	88
11) Benzaldehyde	4.84	105	2306	Below Cal		99
12) Benzyl Alcohol	5.19	108	595448	10.58	ug/l	89
13) 1,2-Dichlorobenzene	5.19	146	1114296	10.51	ug/l #	88
14) 2-Methylphenol	5.32	108	930104	10.74	ug/l #	93
15) Bis-(2-chloroisopropyl)-et	5.34	45	1242979	10.28	ug/l	92
16) Acetophenone	5.49	105	1281993	10.57	ug/l	83
17) 4-Methylphenol	5.51	107	1009301	11.00	ug/l	90
18) N-Nitrosodi-n-propylamine	5.50	70	625199	10.55	ug/l #	86
20) Hexachloroethane	5.58	117	392477	10.03	ug/l	90
23) Nitrobenzene	5.69	77	928509	10.16	ug/l #	90
24) Isophorone	5.97	82	1749768	10.10	ug/l #	91
25) 2-Chloroaniline	6.02	127	1393210	12.11	ug/l #	100
26) 2-Nitrophenol	6.06	139	512939	9.39	ug/l #	80
27) 2,4-Dimethylphenol	6.12	107	914794	10.19	ug/l	94
28) Benzoic Acid	6.32	105	1045900	17.73	ug/l	92
29) Bis(2-chloroethoxy)methane	6.23	93	1107576	10.21	ug/l	90
30) 2,4-Dichlorophenol	6.34	162	780768	10.39	ug/l	96
31) 1,2,4-Trichlorobenzene	6.43	180	974561	10.05	ug/l	99
32) Naphthalene	6.51	128	2986802	10.33	ug/l	95
33) 4-Chloroaniline	6.62	127	649520	18.45	ug/l #	42
34) 2,6-Dichlorophenol	6.60	162	784555	10.50	ug/l	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 10BNA0523.D
Acq On : 23 May 2012 10:39
Operator : DMC
Sample : 10BNA0523
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:11:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	6.65	225	475138	10.21	ug/l		98
36) Caprolactum	7.03	55	311169	9.98	ug/l		92
37) 1,2-bis(2-chloroethoxy)eth	7.08	63	817530	9.97	ug/l		95
38) 4-Chloro-3-methylphenol	7.18	107	741630	10.21	ug/l	#	86
39) 2-Methylnaphthalene	7.31	142	2047479	10.26	ug/l	#	95
40) 1-Methylnaphthalene	7.42	142	1953130	10.21	ug/l		90
41) 1,3-Dinitrobenzene	8.25	168	323630	9.33	ug/l		100
43) Hexachlorocyclopentadiene	7.49	237	239641	5.71	ug/l		98
44) 1,2,4,5-Tetrachlorobenzene	7.50	216	859778	10.19	ug/l		98
45) 2,4,6-Trichlorophenol	7.64	196	525395	10.18	ug/l		94
46) 2,4,5-Trichlorophenol	7.68	198	531476	10.21	ug/l	#	92
48) 2-Chloronaphthalene	7.86	162	1812043	10.12	ug/l		98
49) Biphenyl	7.84	154	2323267	10.18	ug/l		93
50) 2-Nitroaniline	8.01	138	549218	10.47	ug/l	#	80
51) Dimethylphthalate	8.21	163	1974500	9.84	ug/l	#	89
52) 2,6-Dinitrotoluene	8.28	165	462090m	10.36	ug/l	#	89
53) Acenaphthylene	8.32	152	2890174	10.24	ug/l		99
54) Acenaphthene	8.52	154	1743703	10.17	ug/l		98
55) 4-Nitrophenol	8.69	65	385707	16.11	ug/l		88
56) 2,4-Dinitrotoluene	8.73	165	554910	10.68	ug/l	#	74
57) 2,4-Dinitrophenol	8.59	184	355103	17.38	ug/l	#	79
58) Dibenzofuran	8.71	168	2486202	9.92	ug/l		91
59) 2,3,5,6-Tetrachlorophenol	8.81	232	422156	9.99	ug/l		96
60) 2,3,4,6-Tetrachlorophenol	8.87	232	441976	10.29	ug/l		99
61) Diethylphthalate	9.00	149	1856203	10.21	ug/l		98
62) 4-Chlorophenyl phenyl ethe	9.10	204	967234	9.94	ug/l	#	90
63) Fluorene	9.10	166	2061081	10.17	ug/l		97
66) 4,6-Dinitro-2-methyl-pheno	9.19	198	263014	9.53	ug/l	#	85
67) 1,2-Diphenylhydrazine	9.28	77	1711909	10.43	ug/l	#	85
68) N-nitroso-diphenylamine	9.24	169	1680918	10.39	ug/l		95
69) 4-Bromophenyl phenyl ether	9.65	248	514515	10.30	ug/l		99
70) Hexachlorobenzene	9.70	284	556517	10.31	ug/l		94
71) Atrazine	9.86	200	465628	10.71	ug/l		99
72) Pentachlorophenol	9.94	266	282573	8.69	ug/l		98
73) Phenanthrene	10.16	178	2644773	10.31	ug/l		97
74) Anthracene	10.22	178	2742163	10.72	ug/l		96
75) Carbazole	10.41	167	1935994	10.92	ug/l	#	95
77) Di-n-butylphthalate	10.80	149	2849699	11.11	ug/l		99
78) Fluoranthene	11.48	202	2700550	10.54	ug/l		95
80) Benzidine	11.67	184	822890	14.73	ug/l		98
81) Pyrene	11.73	202	2726931	10.03	ug/l		99
82) Butyl Benzyl Phthalate	12.47	149	1083552m	10.32	ug/l	#	92
83) Bis(2-ethylhexyl)adipate	12.55	129	1012314	10.99	ug/l	#	86
84) Bis(2-ethylhexyl)phthalate	13.09	149	1549874	11.51	ug/l		99
85) Dicyclohexylphthalate	13.12	149	1960089	10.57	ug/l	#	84
86) 3,3' Dichlorobenzidine	13.06	252	1512351	23.83	ug/l		98
87) Benzo(a)anthracene	13.06	228	2209032	9.89	ug/l		97
88) Chrysene	13.10	228	2328007	10.09	ug/l		96
89) Di-n-octylphthalate	13.77	149	2404415	9.79	ug/l	#	100
91) Benzo(b)fluoroanthene	14.18	252	2067499	9.91	ug/l		98
92) Benzo(k)fluoroanthene	14.20	252	2459709	10.87	ug/l		98
93) Benzo(a)pyrene	14.50	252	2157911	10.75	ug/l		99

00996

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 10BNA0523.D
Acq On : 23 May 2012 10:39
Operator : DMC
Sample : 10BNA0523
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:11:50 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

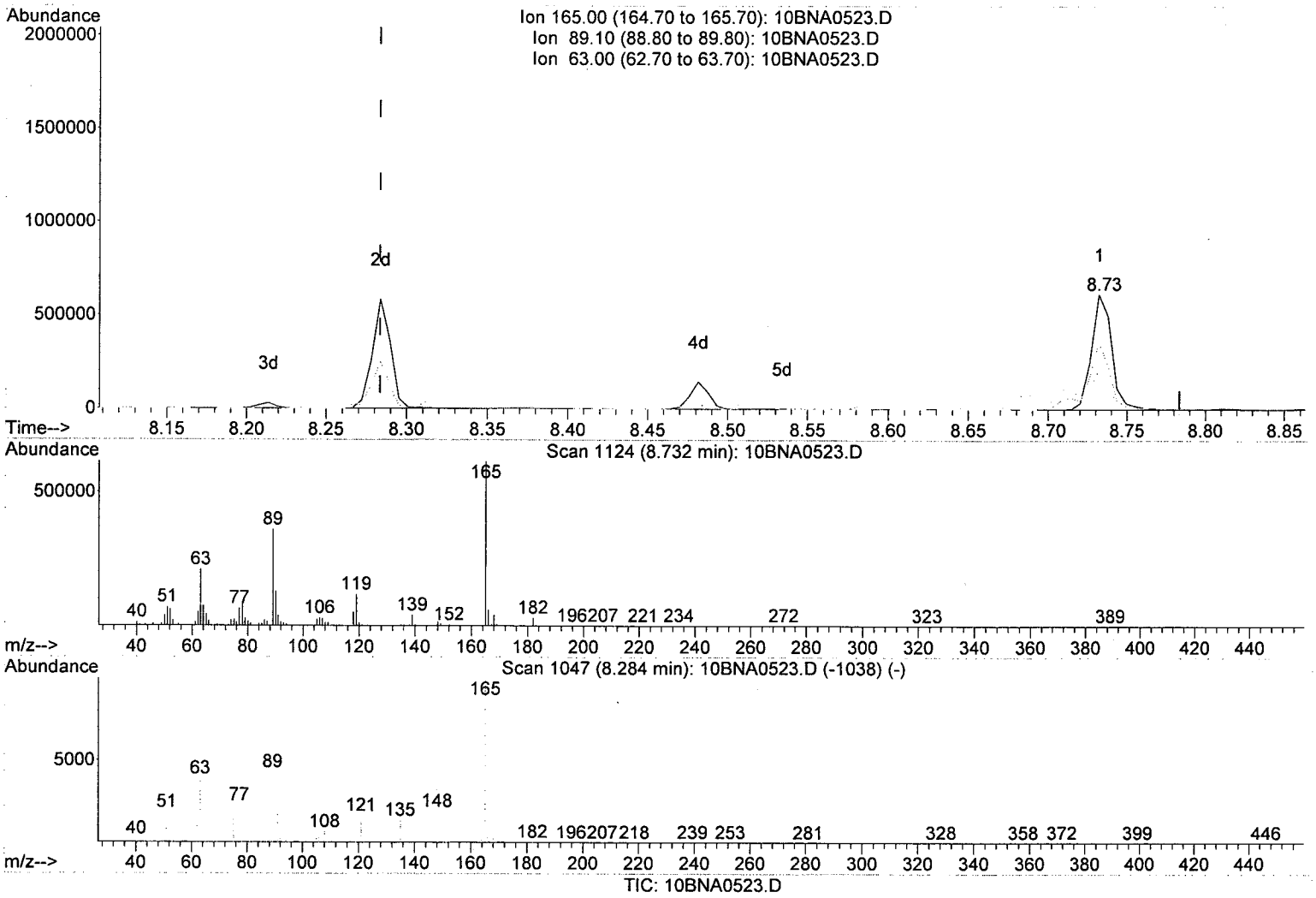
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.56	276	2184286	10.86 ug/l	96
95) Dibenzo(a,h)anthracene	15.57	278	1773264	10.97 ug/l	95
96) Benzo(g,h,i)perylene	15.85	276	2057302	11.12 ug/l	97

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

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 10BNA0523.D
Acq On : 23 May 2012 10:39
Operator : DMC
Sample : 10BNA0523
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:10:41 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(52) 2,6-Dinitrotoluene

8.73min (+0.448) 12.21ug/l

response 544712

Ion	Exp%	Act%
165.00	100	100
89.10	59.10	65.71
63.00	58.70	48.31
0.00	0.00	0.00

N21C

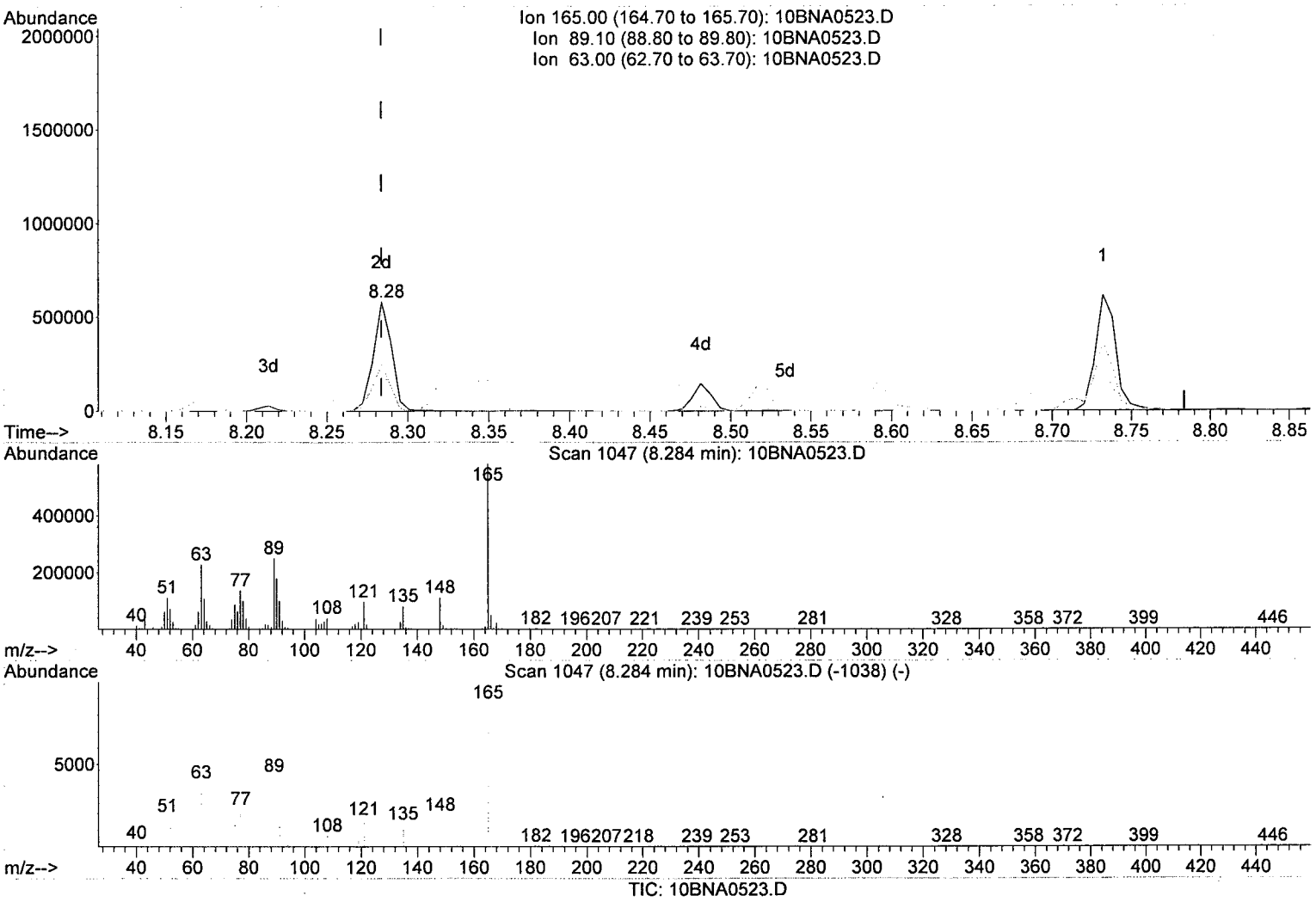
JW 5-24-12

00998

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 10BNA0523.D
Acq On : 23 May 2012 10:39
Operator : DMC
Sample : 10BNA0523
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:10:41 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(52) 2,6-Dinitrotoluene

8.28min (0.000) 10.36ug/l m

response 462090

Ion	Exp%	Act%
165.00	100	100
89.10	59.10	77.46#
63.00	58.70	56.95
0.00	0.00	0.00

Manual Integration Explanation

Reason 1: Incorrect peak integrated by the software.

Flagged on Quantitation Report: Yes / No

Analyst: _____ Date: 5-24-12

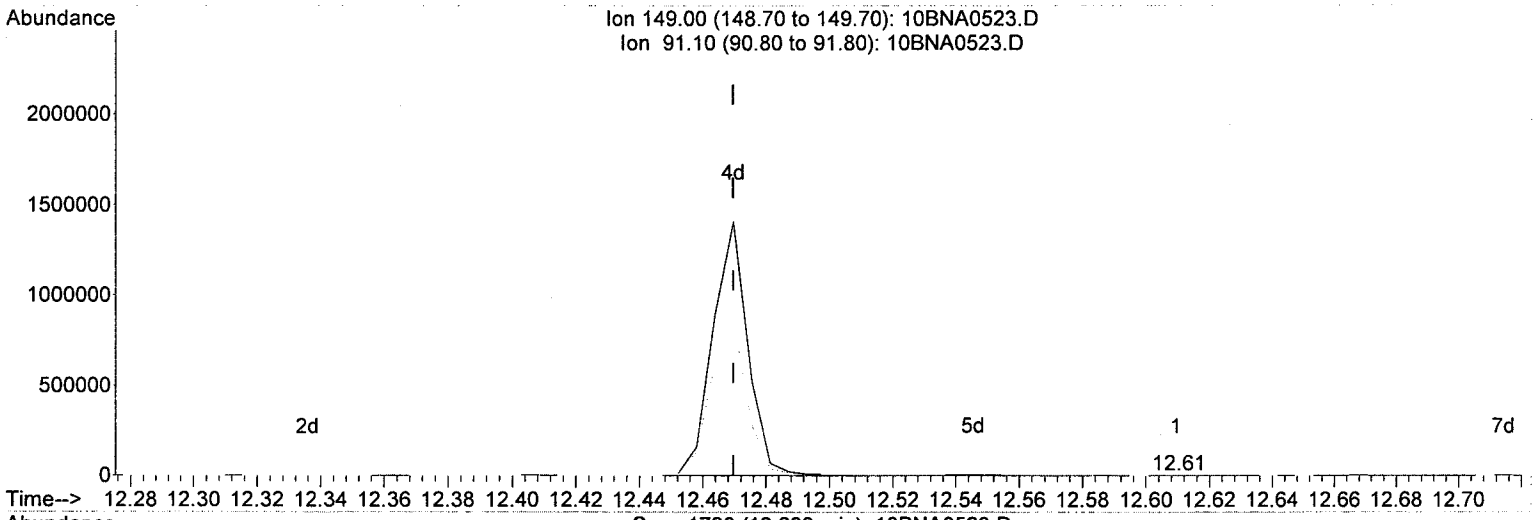
Reviewed By: _____ Date: 5-24-12

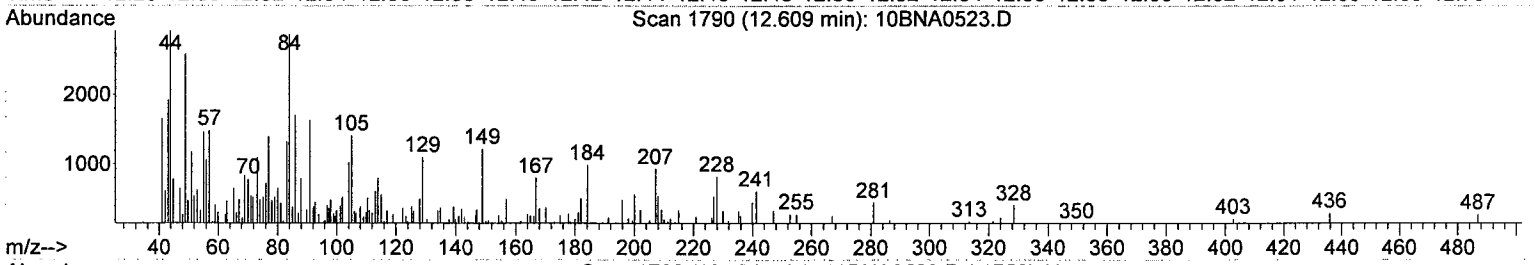
00999

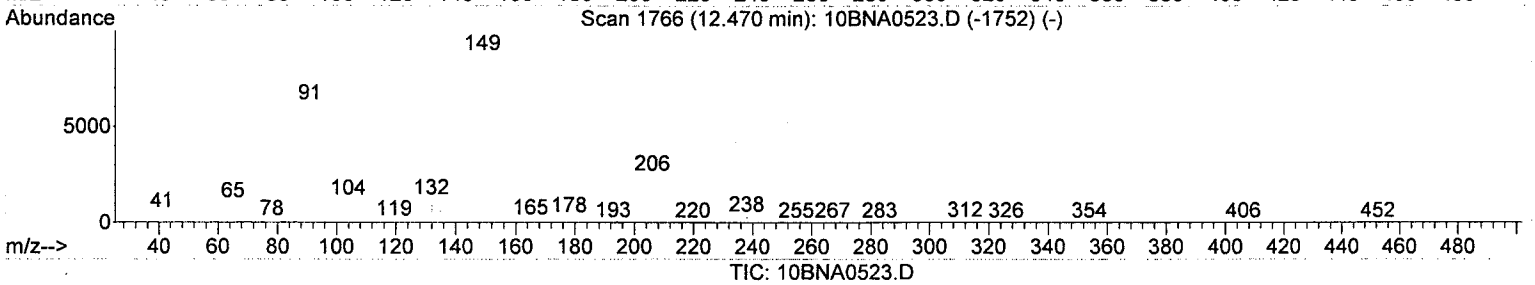
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 10BNA0523.D
Acq On : 23 May 2012 10:39
Operator : DMC
Sample : 10BNA0523
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:10:41 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration







TIC: 10BNA0523.D

(82) Butyl Benzyl Phthalate

12.61min (+0.140) 0.01ug/l

response 1254

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	87.48
0.00	0.00	0.00
0.00	0.00	0.00

1,2,12

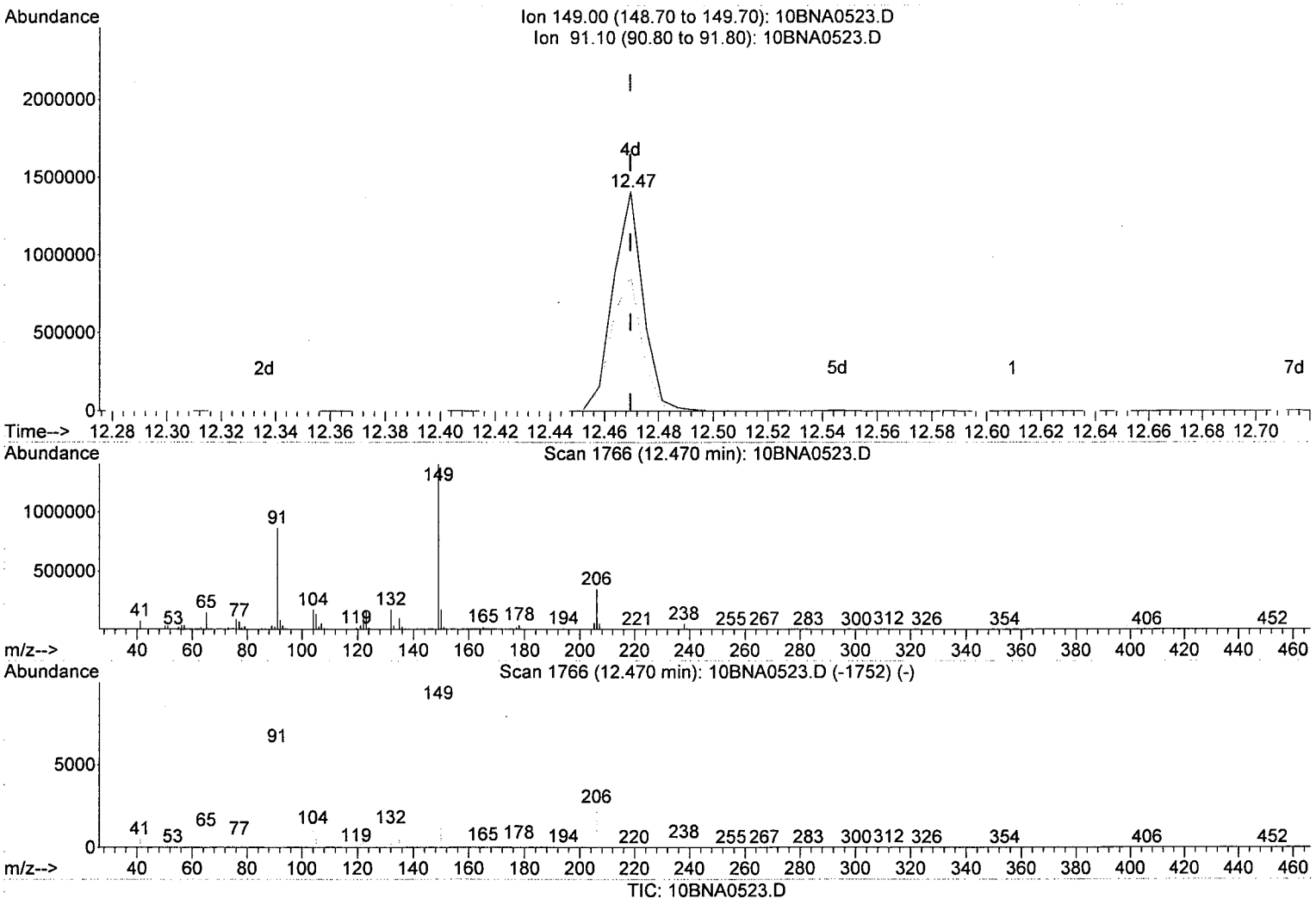
WBS-2472

01000

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 10BNA0523.D
Acq On : 23 May 2012 10:39
Operator : DMC
Sample : 10BNA0523
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:10:41 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



(82) Butyl Benzyl Phthalate

12.47min (0.000) 10.32ug/l m

response 1083552

Ion	Exp%	Act%
149.00	100	100
91.10	80.80	0.10#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration Explanation

Reason 4: The peak was not integrated during initial quantitation of the sample.

Flagged on Quantitation Report: Yes / No

Analyst: _____ Date: 5/24/12

Reviewed By: _____ Date: 5/24/12

01001

CONTINUING CALIBRATION CHECK

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050712
Client: TechLaw
Project: KNM
Lab Sample ID: 2E31014-CCV1
Lab File ID: 10bna0530.D
Injection Date: 05/30/12
Injection Time: 11:50
Calibration Date: 05/18/12 08:17
Calibration: 2E31003
Sequence: 2E31014
Instrument ID: 308

Analyte	Type	CONC. (ug/mL)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	10.0	9.99	0.9363773	0.9348564		-0.2	20
Acenaphthylene	A	10.0	10.2	1.462856	1.485377		1.5	25
Anthracene	A	10.0	9.90	0.8487993	0.8455695		-0.4	25
Benzo(a)anthracene	A	10.0	9.97	1.090436	1.087494		-0.3	25
Benzo(a)pyrene	A	10.0	10.8	0.882492	0.9548636		8.2	20
Benzo(b)fluoranthene	A	10.0	10.5	0.950706	1.008054		6.0	25
Benzo(g,h,i)perylene	A	10.0	10.4	0.7472232	0.7797472		4.4	25
Benzo(k)fluoranthene	A	10.0	10.7	0.973851	1.038836		6.7	25
Chrysene	A	10.0	9.58	1.112005	1.062245		-4.5	25
Dibenz(a,h)anthracene	A	10.0	11.0	0.6968293	0.7647702		9.8	25
Fluoranthene	A	10.0	10.3	0.7553628	0.7808221		3.4	20
Fluorene	A	10.0	9.99	0.9935098	0.9955693		0.2	25
Indeno(1,2,3-cd)pyrene	A	10.0	10.6	0.8001986	0.7361195		-8.0	25
2-Methylnaphthalene	A	10.0	10.2	0.5511673	0.5666617		2.8	25
Naphthalene	A	10.0	10.2	0.8554137	0.8750859		2.3	25
Phenanthrene	A	10.0	9.80	0.8719531	0.8547257		-2.0	25
Pyrene	A	10.0	11.5	1.502254	1.730327		15.2	25

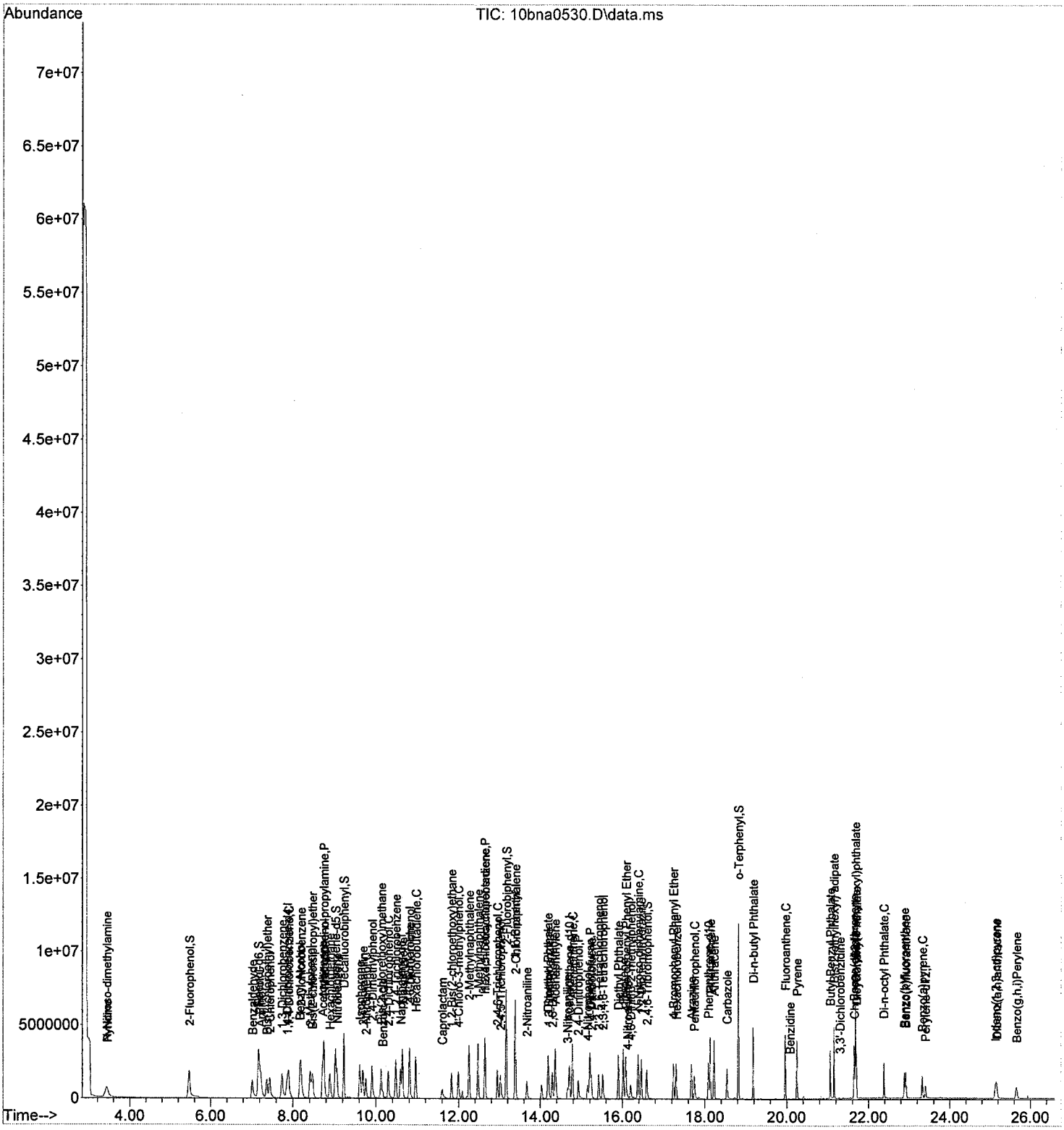
Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 10bna0530.D
Acq On : 30 May 2012 11:50
Operator : JLB
Sample : 10bna0530 Inst : 308
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 12:36:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Wed May 30 12:36:09 2012
Response via : Initial Calibration



01003

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 10bna0530.D
Acq On : 30 May 2012 11:50
Operator : JLB
Sample : 10bna0530 Inst : 308
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 12:36:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Wed May 30 12:36:09 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.868	152	429462	5.00	ng/uL	#	0.00
21) Naphthalene-d8	10.601	136	1748237	5.00	ng/uL		0.00
43) Acenaphthene-d10	14.711	164	946348	5.00	ng/uL		0.00
67) Phenanthrene-d10	18.091	188	1483026	5.00	ng/uL		0.00
82) Chrysene-d12	21.658	240	627515	5.00	ng/uL	#	0.00
93) Perylene-d12	23.401	264	496761	5.00	ng/uL	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.478	112	2199261	20.78	ng/uL		0.00
7) Phenol-d6	7.174	99	2596538	21.13	ng/uL		0.00
22) Nitrobenzene-d5	9.034	82	2537138	21.14	ng/uL		0.00
24) Decafluorobiphenyl	9.232	334	1754186	20.30	ng/uL		0.00
48) 2-Fluorobiphenyl	13.172	172	4322541	19.72	ng/uL		0.00
71) 2,4,6-Tribromophenol	16.605	330	376288	19.88	ng/uL		0.00
79) o-Terphenyl	18.826	230	2998882	19.89	ng/uL		0.00
Target Compounds							Qvalue
2) N-Nitroso-dimethylamine	3.438	74	1161652	18.20	ng/uL	#	62
3) Pyridine	3.450	79	1180220	8.97	ng/uL		83
5) Aniline	7.233	93	1467251	10.16	ng/uL	#	82
6) Benzaldehyde	7.029	105	811447	12.12	ng/uL	#	1
8) Phenol	7.198	94	1387619	10.34	ng/uL	#	55
9) Bis(2-chloroethyl)ether	7.378	93	1129949	10.47	ng/uL		100
10) 2-Chlorophenol	7.448	128	1092931	10.75	ng/uL	#	29
11) 1,3-Dichlorobenzene	7.745	146	1257378	10.08	ng/uL		93
12) 1,4-Dichlorobenzene	7.903	146	1226095	10.20	ng/uL		93
13) 1,2-Dichlorobenzene	8.200	146	1184024	10.09	ng/uL		91
14) Bis(2-chloroisipropyl)...	8.474	45	1853385	10.82	ng/uL		93
15) Benzyl Alcohol	8.177	108	690702	10.55	ng/uL		95
16) 2-Methylphenol	8.422	108	919988	10.45	ng/uL	#	90
17) Acetophenone	8.725	105	1526535	10.71	ng/uL	#	81
18) Hexachloroethane	8.900	119	478020	10.70	ng/uL		96
19) 4-Methylphenol	8.760	107	1050934	10.28	ng/uL	#	61
20) N-Nitroso-di-n-propyla...	8.754	70	849369	10.99	ng/uL	#	63
23) Nitrobenzene	9.069	77	1274275	10.31	ng/uL	#	1
25) Isophorone	9.616	82	2002677	11.18	ng/uL		96
26) 2-Chloroaniline	9.692	127	1237654	10.11	ng/uL		96
27) 2-Nitrophenol	9.768	139	543917	10.78	ng/uL	#	92
28) 2,4-Dimethylphenol	9.914	107	978589	10.24	ng/uL		96
29) Bis(2-chlorethoxy)methane	10.135	93	1059630	10.44	ng/uL		93
30) 2,4-Dichlorophenol	10.304	162	797072	10.63	ng/uL		100
31) Benzoic Acid	10.170	105	565564	8.40	ng/uL		95
32) 1,2,4-Trichlorobenzene	10.485	180	994705	10.27	ng/uL		99
33) Naphthalene	10.648	128	3059715	10.23	ng/uL		95
34) 4-Chloroaniline	10.811	127	993411	9.62	ng/uL	#	67
35) 2,6-Dichlorophenol	10.817	162	818515	10.53	ng/uL	#	87
36) Hexachlorobutadiene	10.969	225	614351	10.21	ng/uL		97
37) Caprolactam	11.610	55	367325	10.10	ng/uL		91
38) 1,2-Bis(2-chloroethoxy...	11.831	63	827383	10.72	ng/uL	#	100
39) 4-Chloro-3-methylphenol	11.995	107	813277	10.78	ng/uL		94
40) 2-Methylnaphthalene	12.263	142	1981318	10.24	ng/uL		97
41) 1-Methylnaphthalene	12.484	142	1936834	10.33	ng/uL		96

pnas + bisEHP

-65/-

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 10bna0530.D
Acq On : 30 May 2012 11:50
Operator : JLB
Sample : 10bna0530 Inst : 308
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 12:36:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Wed May 30 12:36:09 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.209	168	291552	9.58 ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.653	216	922487	9.67 ng/uL	99
45) Hexachlorocyclopentadiene	12.647	237	511374	8.63 ng/uL	97
46) 2,4,6-Trichlorophenol	12.950	196	539312	10.10 ng/uL	96
47) 2,4,5-Trichlorophenol	13.032	196	542510	10.11 ng/uL	97
49) 2-Chloronaphthalene	13.399	162	1830253	9.72 ng/uL	94
50) 1,1'-Biphenyl	13.388	154	2305496	9.87 ng/uL	98
51) 2-Nitroaniline	13.679	138	473437	9.39 ng/uL	87
52) Acenaphthylene	14.367	152	2811368	10.17 ng/uL#	85
53) 2,6-Dinitrotoluene	14.297	165	415491	9.47 ng/uL	92
54) Dimethyl Phthalate	14.192	163	1814915	10.02 ng/uL	95
55) 3-Nitroaniline	14.670	138	278306	9.17 ng/uL#	1
56) Acenaphthene	14.786	153	1769399	9.99 ng/uL	99
57) 2,4-Dinitrophenol	14.926	184	416248	17.36 ng/uL	98
58) Dibenzofuran	15.212	168	2421864	9.92 ng/uL	96
59) 4-Nitrophenol	15.154	65	484040	16.26 ng/uL#	71
60) 2,4-Dinitrotoluene	15.247	165	553748	10.01 ng/uL#	82
61) 2,3,5,6-Tetrachlorophenol	15.428	232	419339	9.28 ng/uL	97
62) 2,3,4,6-Tetrachlorophenol	15.527	232	409914	9.28 ng/uL	95
63) Fluorene	16.028	166	1884310	9.99 ng/uL#	94
64) Diethyl Phthalate	15.906	149	2013910	9.84 ng/uL	97
65) 4-Chlorophenyl Phenyl ...	16.092	204	917382	9.82 ng/uL	89
66) 4-Nitroaniline	16.127	138	151403	8.23 ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.209	198	280723	8.88 ng/uL	91
69) N-Nitroso-diphenylamine	16.389	169	1494445	9.80 ng/uL	98
70) 1,2-Diphenylhydrazine	16.465	182	491877	10.12 ng/uL	93
72) 4-Bromophenyl Phenyl E...	17.246	248	475360	9.56 ng/uL	97
73) Hexachlorobenzene	17.316	284	510466	9.09 ng/uL#	94
74) Atrazine	17.683	200	457139	10.73 ng/uL	99
75) Pentachlorophenol	17.753	266	315185	10.74 ng/uL	95
76) Phenanthrene	18.138	178	2535161	9.80 ng/uL	99
77) Anthracene	18.231	178	2508003	9.90 ng/uL	97
78) Carbazole	18.546	167	1501727	8.67 ng/uL	99
80) Di-n-butyl Phthalate	19.187	149	2911627	11.28 ng/uL	100
81) Fluoroanthene	19.968	202	2315959	10.28 ng/uL#	87
83) Benzidine	20.085	184	680	0.13 ng/uL#	63
84) Pyrene	20.254	202	2171612	11.53 ng/uL#	91
85) Butyl Benzyl Phthalate	21.064	149	832227	11.55 ng/uL	88
86) Bis(2-ethylhexyl) adipate	21.157	129	692731	11.87 ng/uL#	100
87) Benzo(a)anthracene	21.647	228	1364838	9.97 ng/uL#	97
88) 3,3'-Dichlorobenzidine	21.303	252	77	0.08 ng/uL	89
89) Chrysene	21.688	228	1333149	9.58 ng/uL	98
90) Bis(2-ethylhexyl)phtha...	21.682	149	1047984	10.91 ng/uL	99
91) Dicyclohexyl Phthalate	21.705	149	1173971	11.00 ng/uL#	100
92) Di-n-octyl Phthalate	22.381	149	1375189	10.61 ng/uL	100
94) Benzo(b)fluoroanthene	22.888	252	1001524	10.50 ng/uL#	95
95) Benzo(k)fluoranthene	22.923	252	1032106	10.70 ng/uL#	89
96) Benzo(a)pyrene	23.325	252	948678	10.81 ng/uL#	86
97) Indeno(1,2,3-cd)pyrene	25.138	276	923852	10.63 ng/uL	93
98) Dibenz(a,h)anthracene	25.173	278	759816	10.96 ng/uL	97
99) Benzo(g,h,i)Perylene	25.663	276	774696	10.42 ng/uL#	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 10bna0530.D
Acq On : 30 May 2012 11:50
Operator : JLB
Sample : 10bna0530 Inst : 308
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 30 12:36:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Wed May 30 12:36:09 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

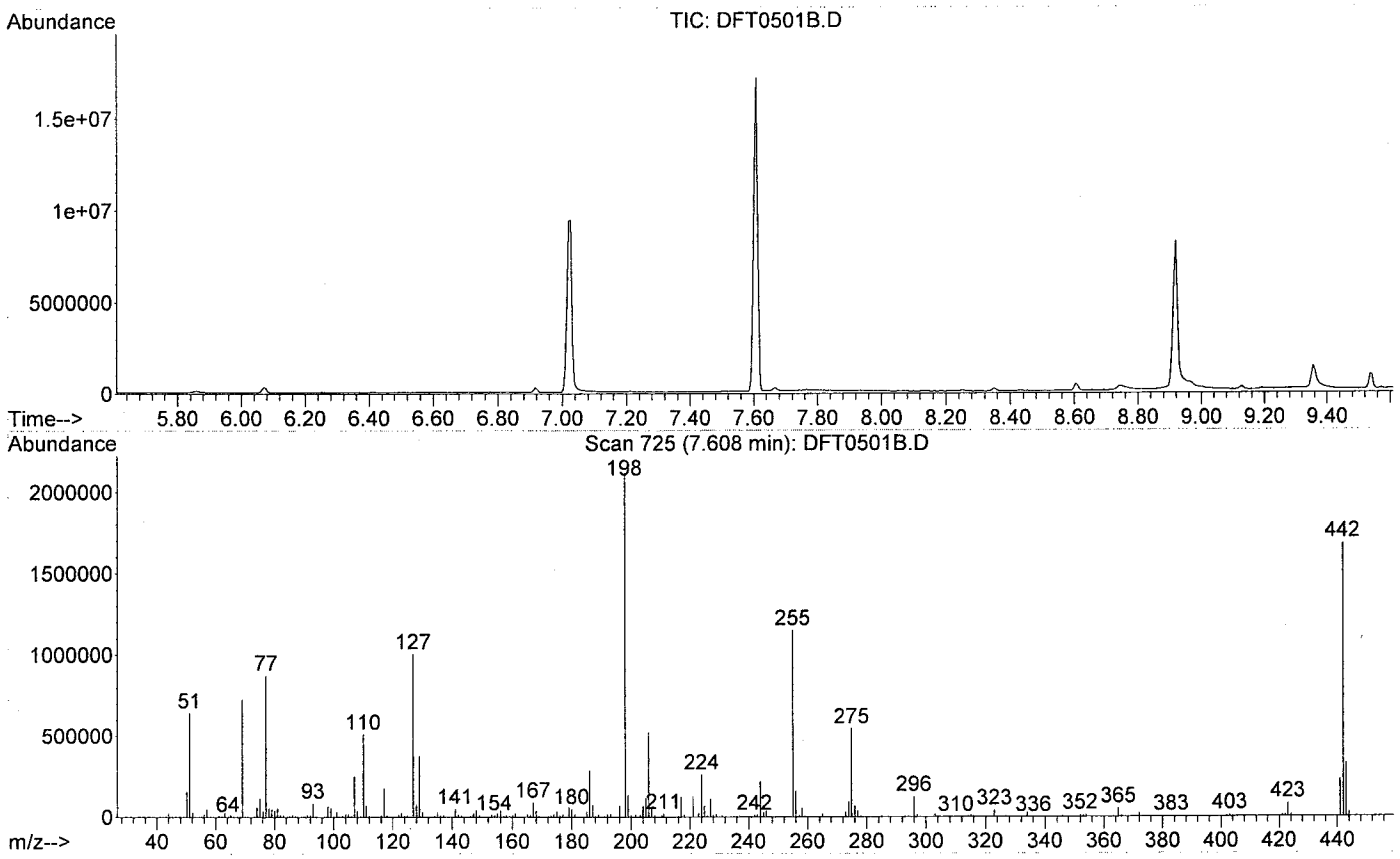
(#) = qualifier out of range (m) = manual integration (+) = signals summed

DFTPP

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : DFT0501B.D
Acq On : 1 May 2012 9:35
Operator : DMC
Sample : DFT0501B
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\VF041912.M
Title : 8270C/625 BNA
Last Update : Tue May 01 09:10:02 2012



Spectrum Information: Scan 725

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.5	644928	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.5	729792	PASS
70	69	0.00	2	0.7	5065	PASS
127	198	40	60	47.6	1006528	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	2116608	PASS
199	198	5	9	6.5	136704	PASS
275	198	10	30	25.8	545920	PASS
365	198	1	100	2.5	53368	PASS
441	443	0.01	100	69.0	228352	PASS
442	198	40	100	79.4	1680384	PASS
443	442	17	23	19.7	330816	PASS

5/10/12

01007

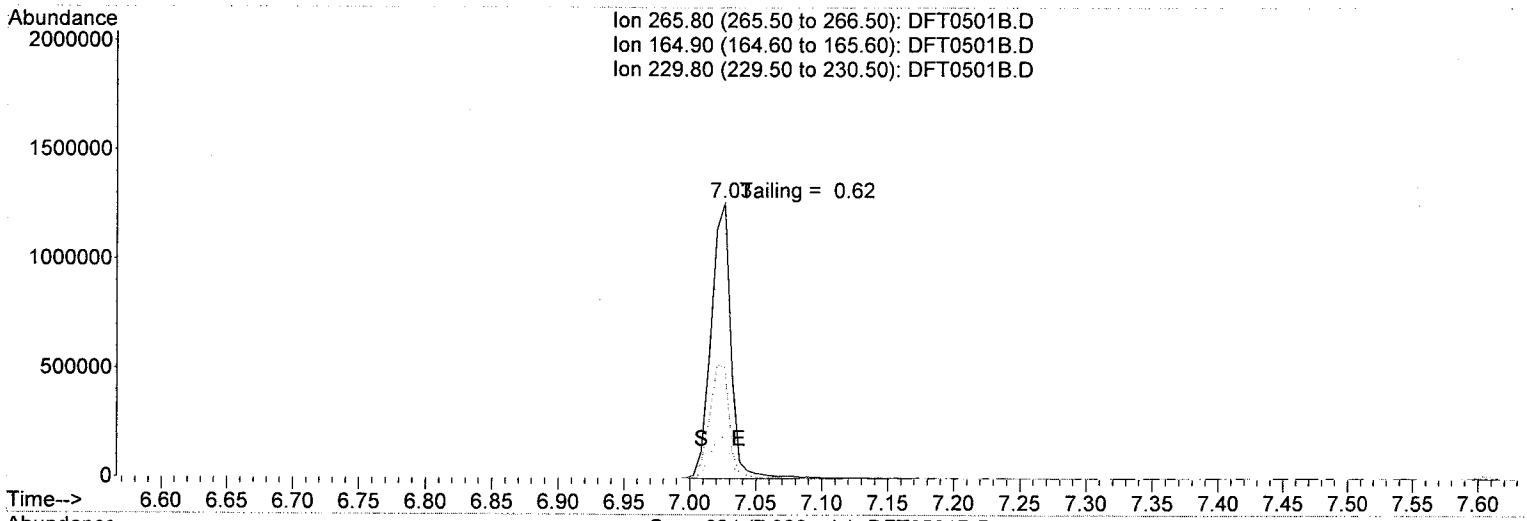
Scan 725 (7.608 min): DFT0501B.D
DFT0501B

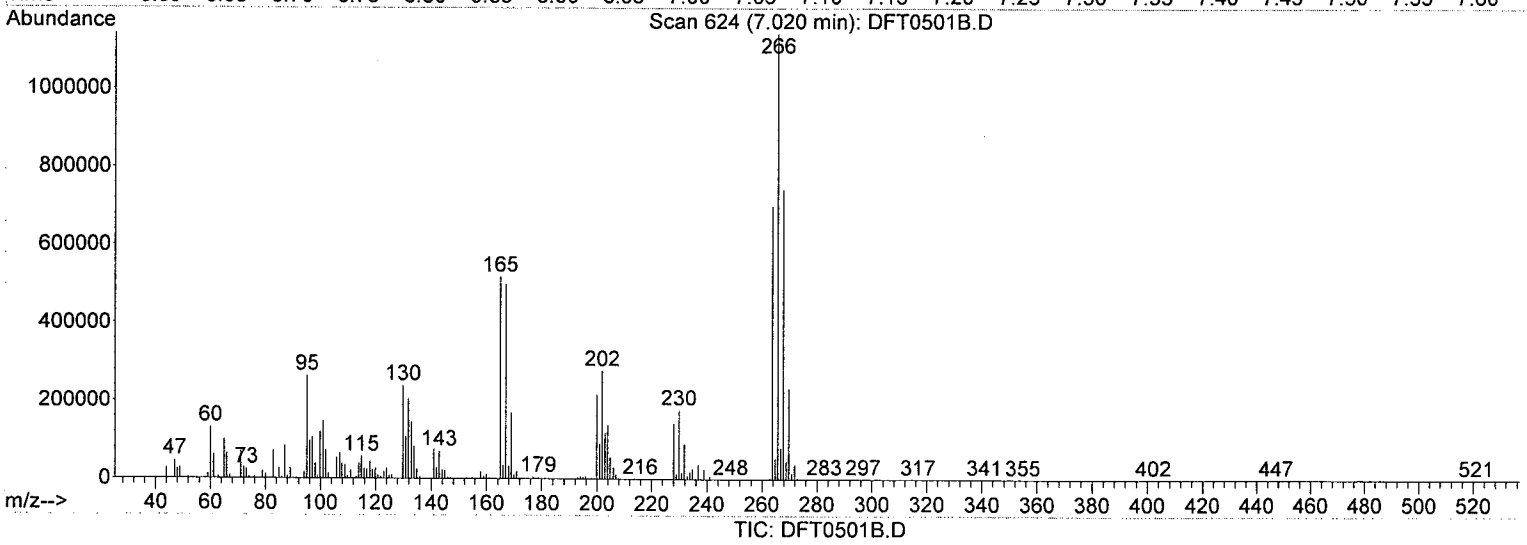
m/z	Abundance
44.00	26928.0
49.00	6379.0
50.10	160512.0
51.10	644928.0
52.10	30480.0
56.00	20504.0
57.00	50776.0
61.00	9214.0
62.10	7283.0
63.10	27752.0
65.10	15839.0
69.00	729792.0
73.10	6364.0
74.00	62904.0
75.00	117680.0
76.10	37440.0
77.10	875264.0
78.10	58376.0
79.00	51232.0
80.00	41480.0
81.00	58528.0
82.00	14251.0
83.00	16728.0
85.00	9868.0
86.00	16472.0
87.00	9693.0
91.00	14254.0
92.00	14110.0
93.00	86472.0
94.10	6466.0
98.00	67992.0
99.00	56800.0
101.00	33152.0
103.00	12756.0
104.00	21336.0
105.00	19888.0
106.10	7208.0
107.00	254848.0
108.00	40544.0
109.10	8618.0
110.00	511808.0
111.00	74328.0
112.00	10351.0
116.00	13141.0
117.00	176704.0
118.00	12402.0
122.00	15267.0
123.00	27512.0
124.00	10312.0
125.00	11162.0
127.00	1006528.0
128.00	78784.0
129.00	378752.0
130.00	33288.0
131.00	6896.0
134.00	9321.0
135.00	33792.0
136.00	12079.0
137.10	14328.0
141.00	51456.0
142.00	15879.0
143.00	11047.0
146.10	7741.0
147.00	24376.0
148.00	44504.0
149.00	12349.0
151.10	6564.0
153.00	15051.0
154.00	12149.0
155.00	26512.0
156.00	41536.0
157.10	8042.0
158.00	10329.0
159.00	7453.0
160.00	13985.0
161.00	23184.0
162.00	6773.0
165.00	17704.0
166.00	15196.0
167.00	90712.0
168.00	42296.0
169.00	7438.0
172.00	8475.0
173.00	11141.0
174.00	20968.0
175.00	37768.0
176.00	11945.0
177.00	17712.0
179.00	62424.0

180.00	50520.0
181.00	18520.0
185.00	36608.0
186.00	288448.0
187.00	75376.0
188.00	7410.0
189.00	17496.0
191.00	8224.0
192.00	19160.0
193.10	22456.0
196.00	72128.0
198.00	2116608.0
199.00	136704.0
200.00	11123.0
201.50	15979.0
203.00	14347.0
204.00	69504.0
205.00	116960.0
206.00	523712.0
207.00	66624.0
208.00	14697.0
210.30	9403.0
211.00	21304.0
216.00	9212.0
217.00	125832.0
218.00	15516.0
221.00	128752.0
223.00	26008.0
224.00	262592.0
225.00	70312.0
226.10	7551.0
227.00	111192.0
228.00	15609.0
229.00	20688.0
231.00	10115.0
234.90	8440.0
237.00	9655.0
242.00	13744.0
243.00	15187.0
244.00	224192.0
245.00	29112.0
246.00	39832.0
247.00	7057.0
249.00	6903.0
255.00	1151488.0
256.00	161408.0
257.00	13233.0
258.00	58840.0
259.00	8451.0
265.00	22816.0
273.00	31472.0
274.00	92920.0
275.00	545920.0
276.00	71088.0
277.00	38840.0
278.00	6776.0
285.00	7141.0
293.00	8028.0
296.00	125728.0
297.00	16560.0
303.00	19008.0
314.00	7288.0
315.00	13612.0
315.90	9127.0
323.00	42680.0
324.00	8371.0
326.90	7583.0
334.00	27488.0
335.00	6692.0
345.90	9713.0
352.00	14582.0
353.00	9522.0
354.00	13435.0
364.90	53368.0
366.00	7160.0
372.00	24552.0
402.00	8531.0
403.00	12532.0
421.00	12467.0
422.00	11122.0
423.00	82792.0
424.00	16584.0
441.00	228352.0
442.00	1680384.0
443.00	330816.0
444.00	28992.0

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : DFT0501B.D
Acq On : 1 May 2012 9:35
Operator : DMC
Sample : DFT0501B
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 01 09:52:44 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF041912.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 09:10:02 2012
Response via : Initial Calibration





(72) Pentachlorophenol (C)

10.73min (+0.460) 0.00ug/l

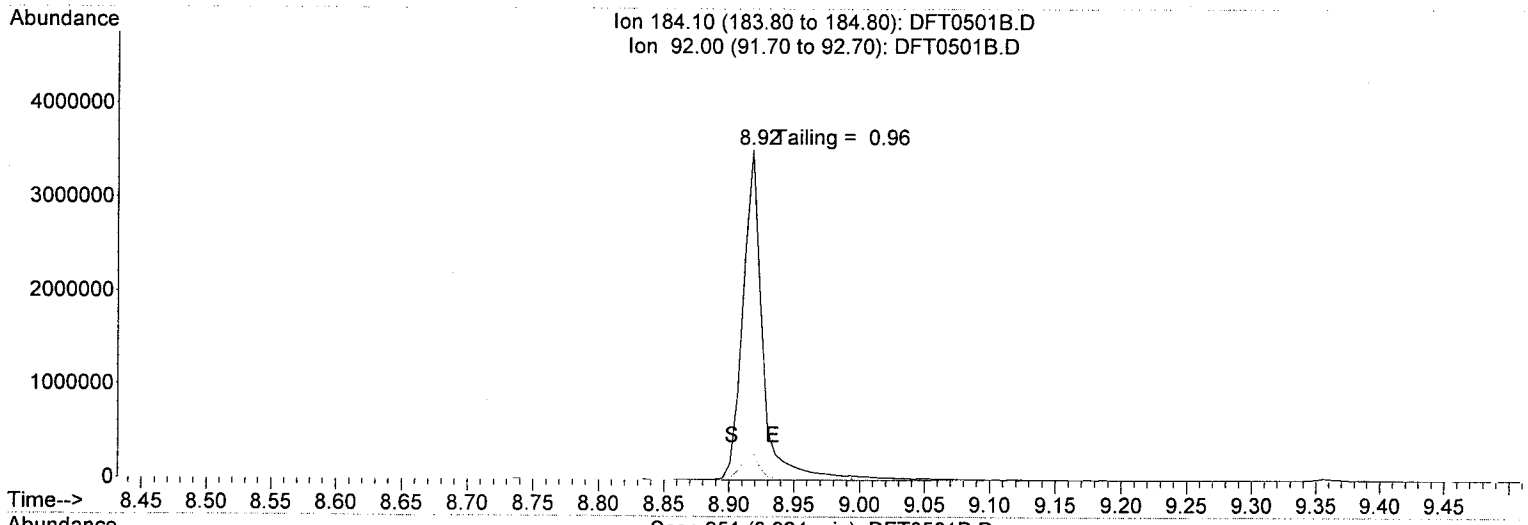
response 1218

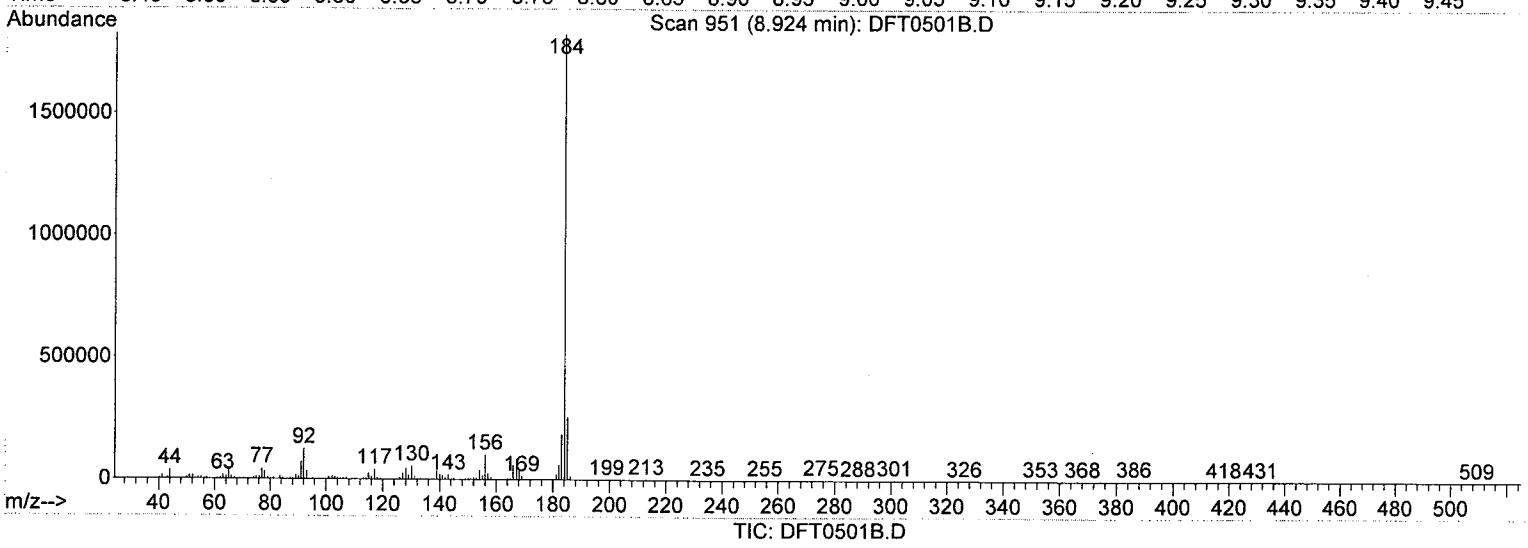
Ion	Exp%	Act%
265.80	100	100
164.90	40.50	85.22#
229.80	13.80	0.00#
0.00	0.00	0.00

01010

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : DFT0501B.D
Acq On : 1 May 2012 9:35
Operator : DMC
Sample : DFT0501B
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 01 09:52:44 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF041912.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 01 09:10:02 2012
Response via : Initial Calibration





TIC: DFT0501B.D

(80) Benzidine

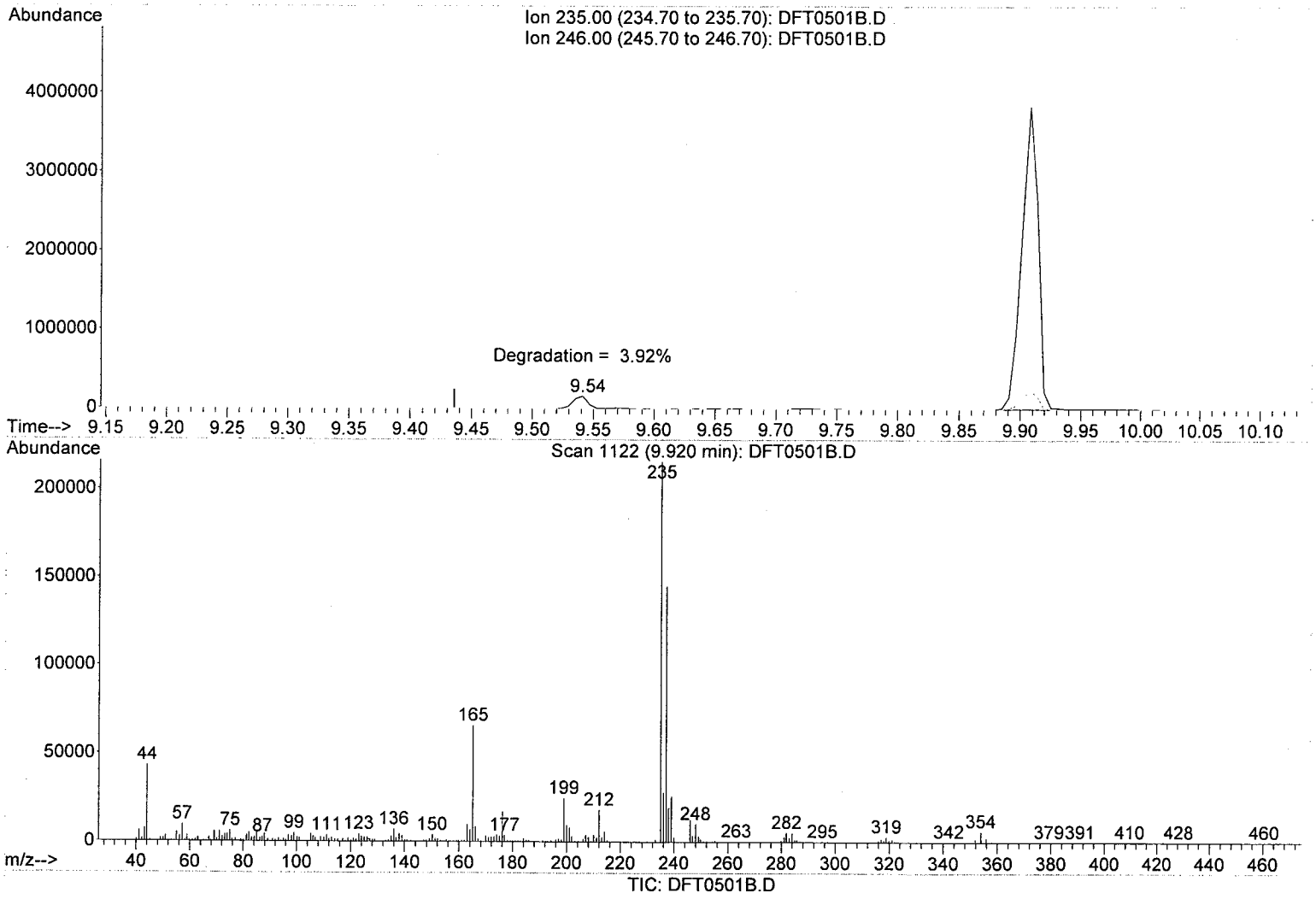
12.12min (+0.116) 0.00ug/l

response 1117

Ion	Exp%	Act%
184.10	100	100
92.00	6.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\MSDChem\1\DATA\05-01-12_195\
Data File : DFT0501B.D
Acq On : 1 May 2012 9:35
Operator : DMC
Sample : DFT0501B
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 01 09:54:03 2012
Quant Method : C:\MSDCHEM\1\METHODS\4DDT.M
Quant Title : 4-CHLOROPHENOL
QLast Update : Tue Mar 08 08:42:29 2011
Response via : Initial Calibration



(1) 4DDT

8.92min (-0.018) 0.13ug/l

response 2531

Ion	Exp%	Act%
235.00	100	100
246.00	0.00	49.23#
0.00	0.00	0.00
0.00	0.00	0.00

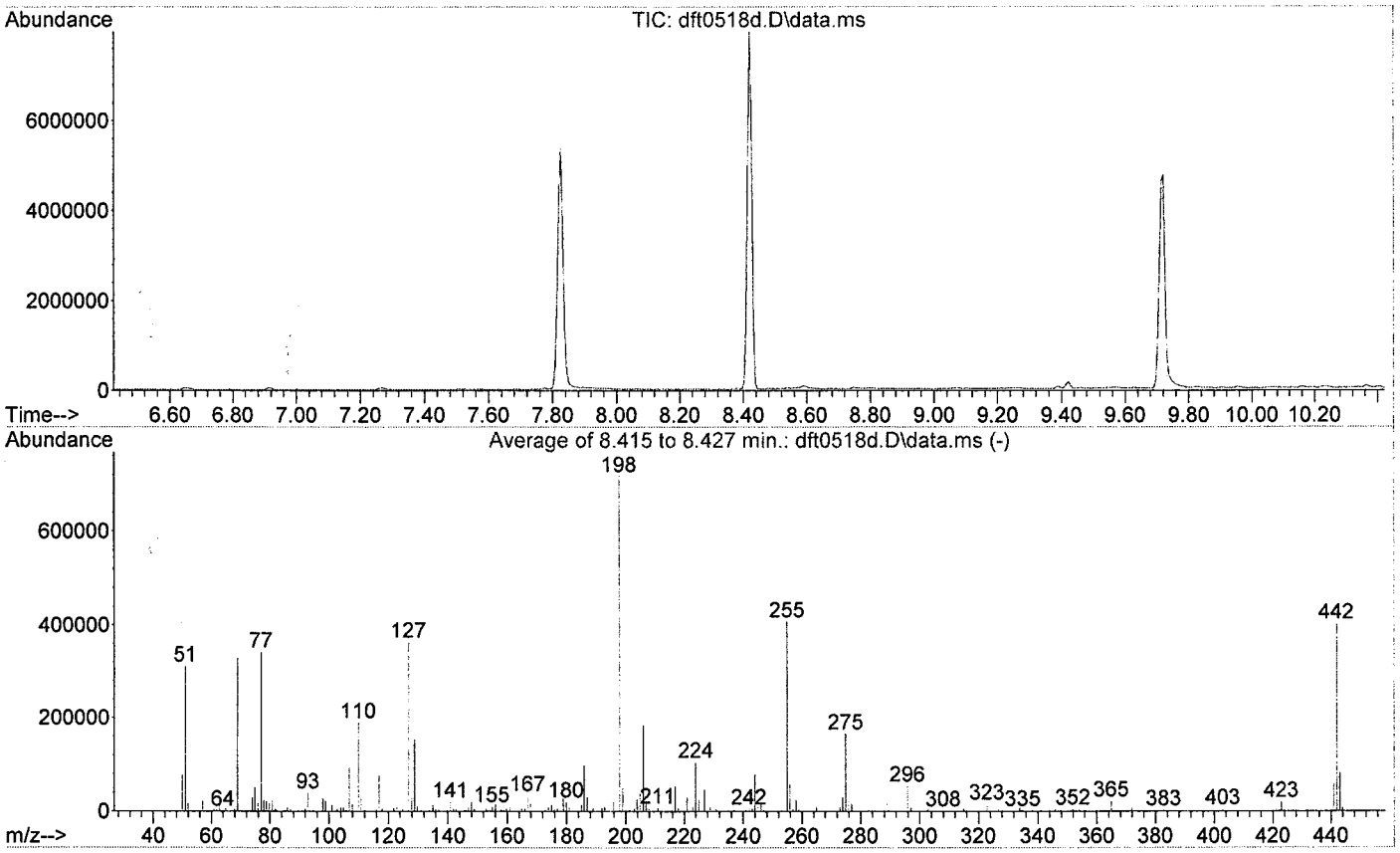
01012

DFTPP

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : dft0518d.D
Acq On : 18 May 2012 8:21
Operator : JLB
Sample : dft0518d
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: lscint.p

Method : C:\msdchem\1\METHODS\051712bna.M
Title : 8270/625 BNA
Last Update : Thu May 17 19:48:03 2012
Sample : dft0518d Inst : 308



AutoFind: Scans 897, 898, 899; Background Corrected with Scan 888

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.5	310955	PASS
68	69	0.00	2	1.6	5239	PASS
69	198	0.00	100	45.0	329091	PASS
70	69	0.00	2	0.3	983	PASS
127	198	40	60	49.6	362923	PASS
197	198	0.00	1	0.1	1026	PASS
198	198	100	100	100.0	731989	PASS
199	198	5	9	7.0	50931	PASS
275	198	10	30	22.6	165268	PASS
365	198	1	100	2.9	21511	PASS
441	443	0.01	100	72.2	59296	PASS
442	198	40	100	54.9	402197	PASS
443	442	17	23	20.4	82133	PASS

Average of 8.415 to 8.427 min.: dft0518d.D\data.ms
dft0518d
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
40.10	986	52.05	16536	63.00	12591	74.05	29984
41.00	365	53.00	409	64.05	1415	75.00	51685
42.00	107	54.20	169	65.10	6700	76.05	17223
43.00	672	55.05	1597	66.05	447	77.10	341489
44.85	506	56.00	9156	66.95	432	78.10	23196
45.10	243	57.00	21131	68.05	5239	79.00	23096
46.90	240	58.00	967	69.00	329091	80.00	16606
48.20	228	58.80	65	70.00	983	81.00	24622
49.00	2183	60.00	177	70.80	167	82.00	5431
50.05	78475	61.00	3770	71.10	199	83.00	5875
51.10	310955	62.00	4550	73.05	2010	83.90	586

Average of 8.415 to 8.427 min.: dft0518d.D\data.ms
dft0518d
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.05	3471	96.00	2352	107.00	105920	116.05	5413
86.00	7675	97.10	986	108.00	16285	117.00	77221
87.05	3807	98.00	27936	109.05	1840	118.05	5683
88.00	1479	98.95	22681	110.00	189440	119.05	1160
89.10	606	100.05	2182	110.95	29784	119.95	1026
90.10	82	101.05	13594	112.05	3840	121.10	876
91.00	5249	101.95	716	112.95	1343	122.05	7104
92.05	5855	102.95	4737	113.70	74	123.05	11611
93.00	38900	104.00	8821	114.15	266	124.00	5338
94.05	2637	105.00	8488	114.85	306	125.00	4776
95.00	1152	106.00	2864	115.10	169	127.00	362923

Average of 8.415 to 8.427 min.: dft0518d.D\data.ms
dft0518d
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	28013	138.00	1395	149.00	4383	158.95	2727
129.00	153165	138.80	327	150.05	863	159.95	6489
130.00	11374	140.00	1883	151.00	2966	161.05	7835
131.00	2449	141.00	19867	152.05	1647	162.05	2377
131.95	1315	142.05	5623	153.05	6312	162.85	397
132.65	506	142.95	4005	154.00	4183	163.85	258
133.30	82	144.10	807	155.00	9735	164.10	899
134.00	4326	145.05	1335	156.05	15595	165.00	5998
135.05	12401	146.00	3421	157.05	2460	166.05	5203
136.05	4613	147.05	8946	157.30	658	167.05	33635
137.00	4701	148.00	19047	157.90	3402	168.00	15661

Average of 8.415 to 8.427 min.: dft0518d.D\data.ms
dft0518d
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.05	2852	179.00	27976	189.80	663	200.05	4202
170.10	905	180.05	20391	190.10	373	201.45	3218
170.95	1289	181.05	9608	191.05	2515	201.90	392
171.20	600	182.10	1611	192.00	9059	203.00	5220
172.05	3391	182.90	720	193.00	9887	204.05	26283
173.00	3764	183.95	2352	194.05	2293	205.05	44917
174.05	7698	185.05	14521	194.95	793	206.10	183957
175.05	13672	186.10	100091	196.00	20110	207.05	22610
176.00	4278	187.05	29869	197.10	1026	208.00	5736
177.00	6034	188.05	3060	198.00	731989	209.05	2381
178.00	2270	189.05	7027	199.00	50931	210.00	2069

Average of 8.415 to 8.427 min.: dft0518d.D\data.ms
dft0518d
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.05	7521	222.00	1969	231.90	136	241.05	2560
212.05	1005	223.00	10864	232.05	761	242.10	5465
212.80	130	224.10	105101	233.05	1150	243.10	5350
213.10	437	225.10	25099	234.05	2116	244.10	79027
213.95	279	226.00	2757	235.05	3569	245.10	9701
215.05	2365	227.05	46851	236.00	1671	246.05	16715

216.00	3947	228.05	6176	237.00	2981	247.00	3285
217.00	53952	229.00	9944	237.90	289	247.80	101
218.00	6501	229.90	483	238.20	357	248.05	628
219.05	464	230.10	475	239.00	1954	248.95	3344
221.00	30699	231.05	3500	240.05	1290	250.05	663

Average of 8.415 to 8.427 min.: dft0518d.D\data.ms
dft0518d
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.90	526	261.00	634	270.10	180	280.00	51
251.10	318	262.00	60	271.00	850	281.10	60
252.05	746	263.00	289	271.80	540	282.15	184
253.05	1956	263.20	52	272.10	551	282.50	205
254.00	995	263.50	124	273.05	12505	282.95	2067
255.00	407211	264.05	918	274.05	29787	284.05	1284
256.00	57925	265.00	9577	275.05	165268	285.10	3053
257.05	4541	265.85	831	276.05	21957	285.90	149
258.00	24555	266.10	567	277.05	14966	286.10	450
259.05	3944	267.80	249	278.05	2850	287.25	187
260.10	631	269.85	254	278.95	392	288.20	167

Average of 8.415 to 8.427 min.: dft0518d.D\data.ms
dft0518d
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
289.00	791	297.95	556	310.00	554	321.10	1337
290.10	612	301.10	684	310.90	288	322.00	906
290.90	511	302.05	1024	311.90	52	323.05	15258
291.95	553	303.05	5866	312.60	260	324.05	3048
292.20	146	304.05	2006	312.90	128	324.80	120
293.00	3579	305.00	94	313.10	189	324.95	207
294.05	1035	306.70	65	313.95	2409	325.95	282
294.60	112	307.30	70	315.05	5422	326.95	3411
295.00	171	308.05	770	316.05	3285	327.95	1956
296.00	54179	309.00	406	317.05	551	329.00	324
297.10	7162	309.80	89	320.90	319	330.20	63

Average of 8.415 to 8.427 min.: dft0518d.D\data.ms
dft0518d
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.05	993	345.95	3290	359.05	451	371.05	1167
332.80	402	347.05	658	360.80	116	372.10	7521
333.05	1456	347.90	73	363.00	197	373.05	1847
334.05	8927	350.10	130	363.75	157	374.10	71
335.05	2032	350.80	183	365.00	21511	377.00	75
335.80	106	352.05	4540	366.05	3089	379.20	61
336.05	289	353.00	2851	366.95	243	382.95	2289
339.05	320	354.05	4200	369.70	126	383.90	443
340.00	416	355.05	915	370.00	128	384.10	239
341.00	2186	356.70	83	370.20	185	385.15	125
342.00	591	358.90	94	370.60	63	390.00	715

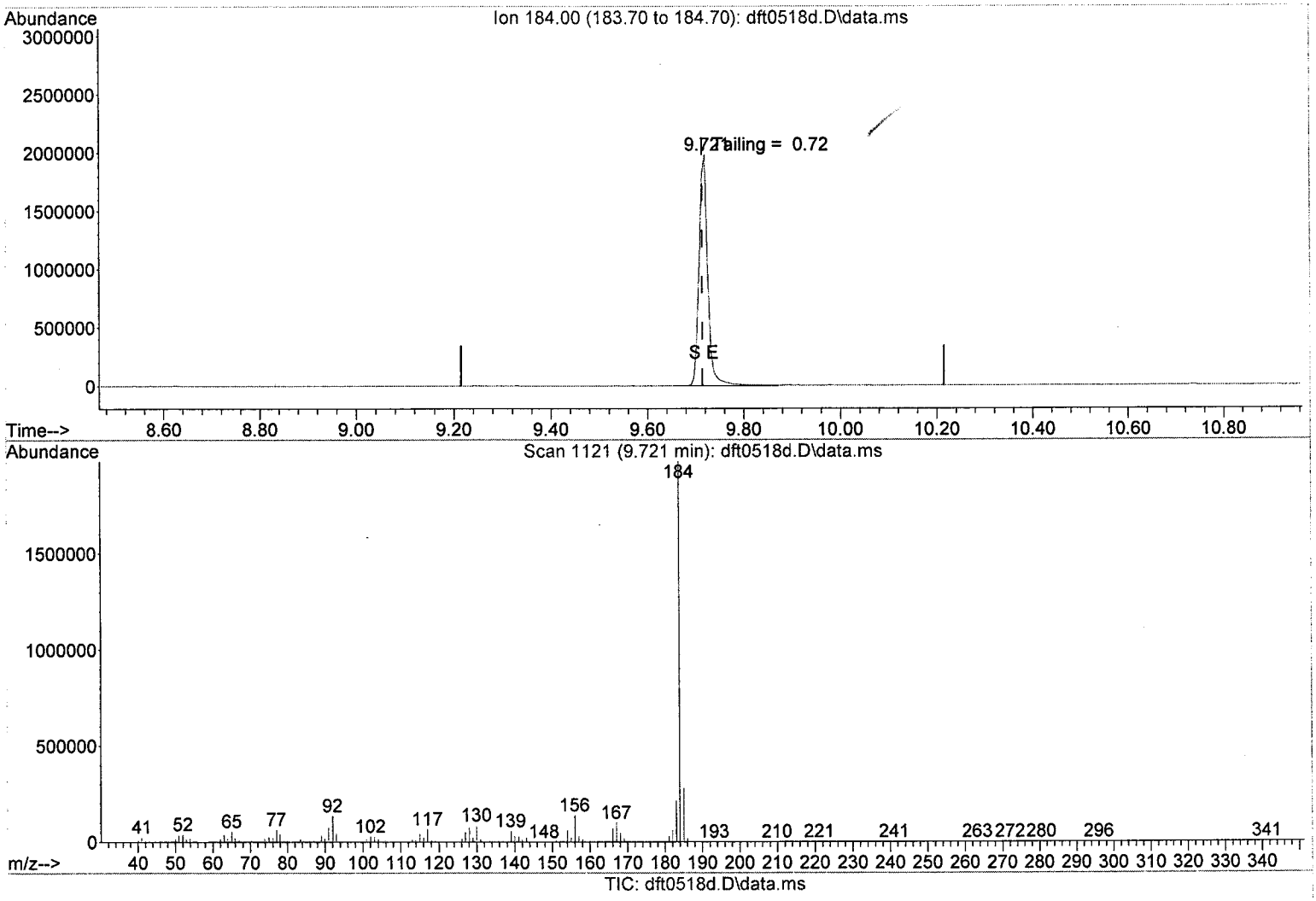
Average of 8.415 to 8.427 min.: dft0518d.D\data.ms
dft0518d
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
391.05	592	425.00	633				
392.00	512	434.30	89				
400.95	291	436.75	197				
402.05	2499	438.30	55				
403.10	4186	439.10	67				
404.05	1472	441.10	59296				
405.15	137	442.10	402197				
421.05	3196	443.10	82133				
422.10	2691	444.05	7886				
423.05	19412	444.90	124				
424.05	4194	445.05	420				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : dft0518d.D
Acq On : 18 May 2012 8:21
Operator : JLB
Sample : dft0518d Inst : 308
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 10:04:33 2012
Quant Method : C:\msdchem\1\METHODS\4DDT.M
Quant Title : 8270/625 BNA
QLast Update : Mon Apr 11 10:20:07 2011
Response via : Initial Calibration



(1) benzidine

9.721min (+0.006) 0.00 ng/uL

response 2455529

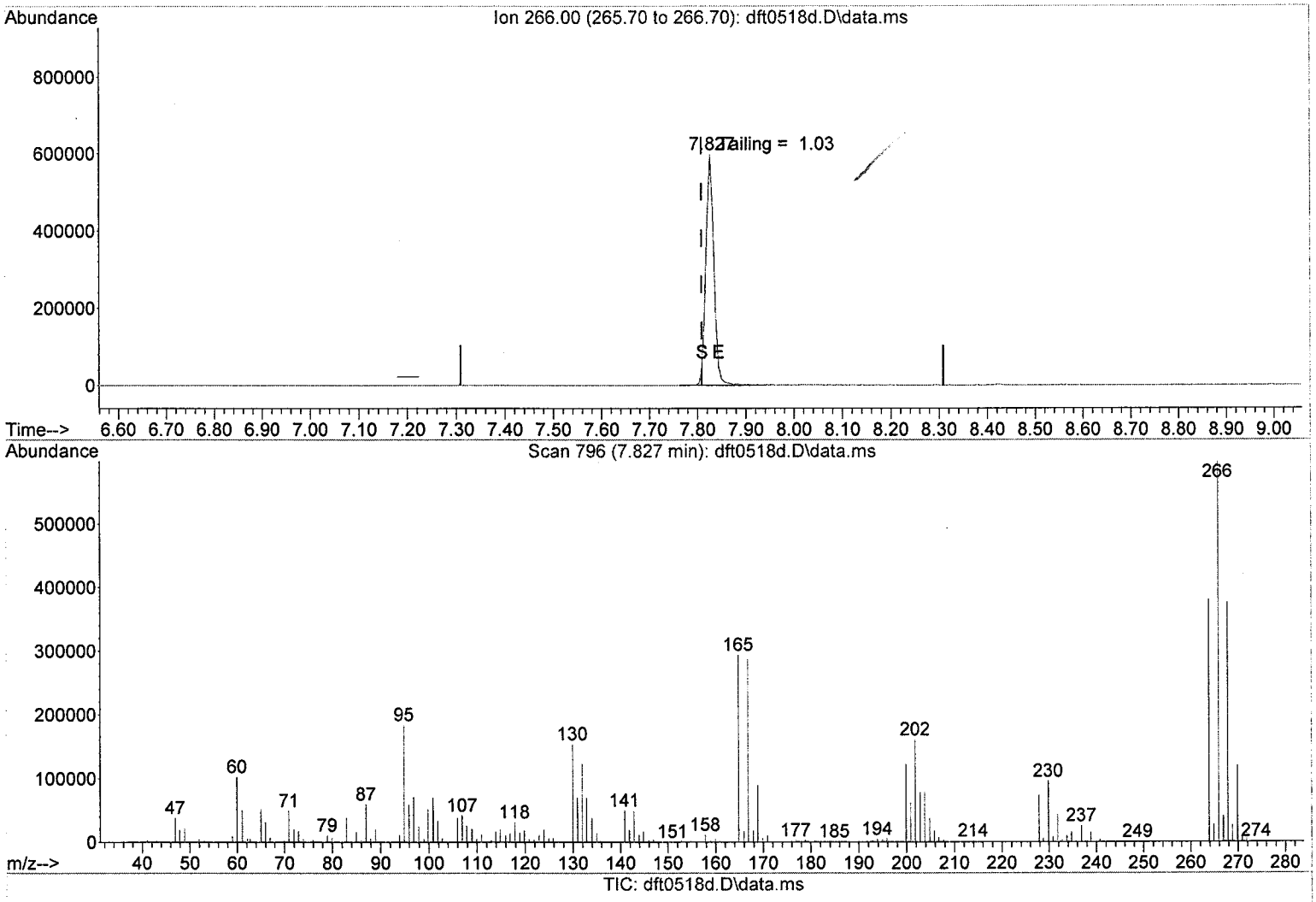
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

01016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051812_308\
Data File : dft0518d.D
Acq On : 18 May 2012 8:21
Operator : JLB
Sample : dft0518d Inst : 308
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 10:04:33 2012
Quant Method : C:\msdchem\1\METHODS\4DDT.M
Quant Title : 8270/625 BNA
QLast Update : Mon Apr 11 10:20:07 2011
Response via : Initial Calibration



(2) pentachlorophenol

7.827min (+0.018) 0.00 ng/uL

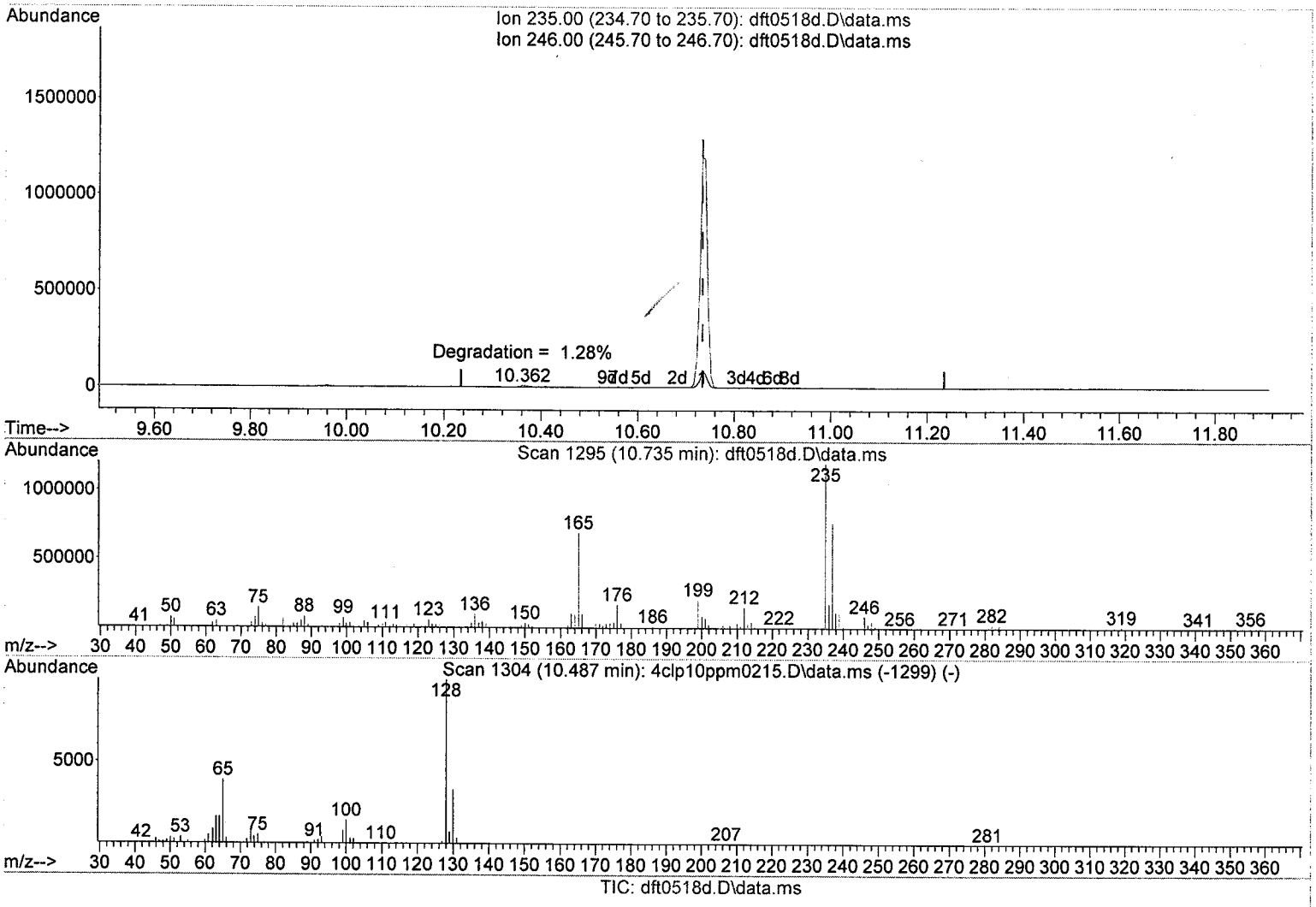
response 682651

Ion	Exp%	Act%
266.00	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 : C:\msdchem\1\DATA\051812_308\
Data File : dft0518d.D
Acq On : 18 May 2012 8:21
Operator : JLB
Sample : dft0518d Inst : 308
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 10:04:33 2012
Quant Method : C:\msdchem\1\METHODS\4DDT.M
Quant Title : 8270/625 BNA
QLast Update : Mon Apr 11 10:20:07 2011
Response via : Initial Calibration



(3) 4-ddt

10.735min (+0.000) 17.49 ng/uL

response 1256180

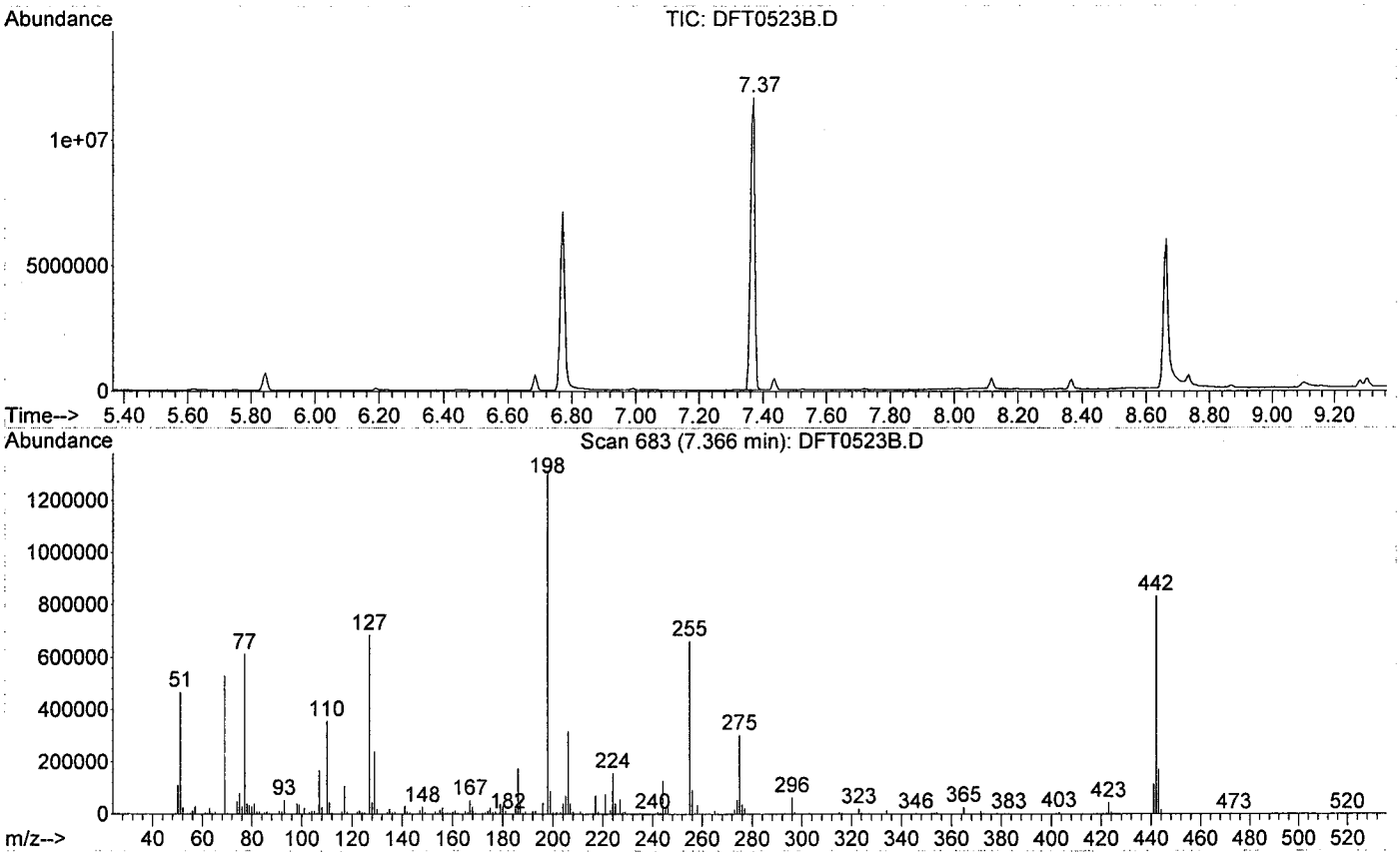
Ion	Exp%	Act%
235.00	100	100
246.00	0.00	6.90#
0.00	0.00	0.00
0.00	0.00	0.00

01018

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : DFT0523B.D
Acq On : 23 May 2012 9:51
Operator : DMC
Sample : DFT0523B
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\VF050112.M
Title : 8270C/625 BNA
Last Update : Tue May 22 12:05:06 2012



Spectrum Information: Scan 683

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.6	468864	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	531456	PASS
70	69	0.00	2	0.7	3589	PASS
127	198	40	60	52.2	686720	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	1315840	PASS
199	198	5	9	6.7	88792	PASS
275	198	10	30	23.2	305216	PASS
365	198	1	100	2.1	27416	PASS
441	443	0.01	100	67.6	115688	PASS
442	198	40	100	63.5	835456	PASS
443	442	17	23	20.5	171200	PASS

5/24/12

01019

Scan 683 (7.366 min): DFT0523B.D
DFT0523B

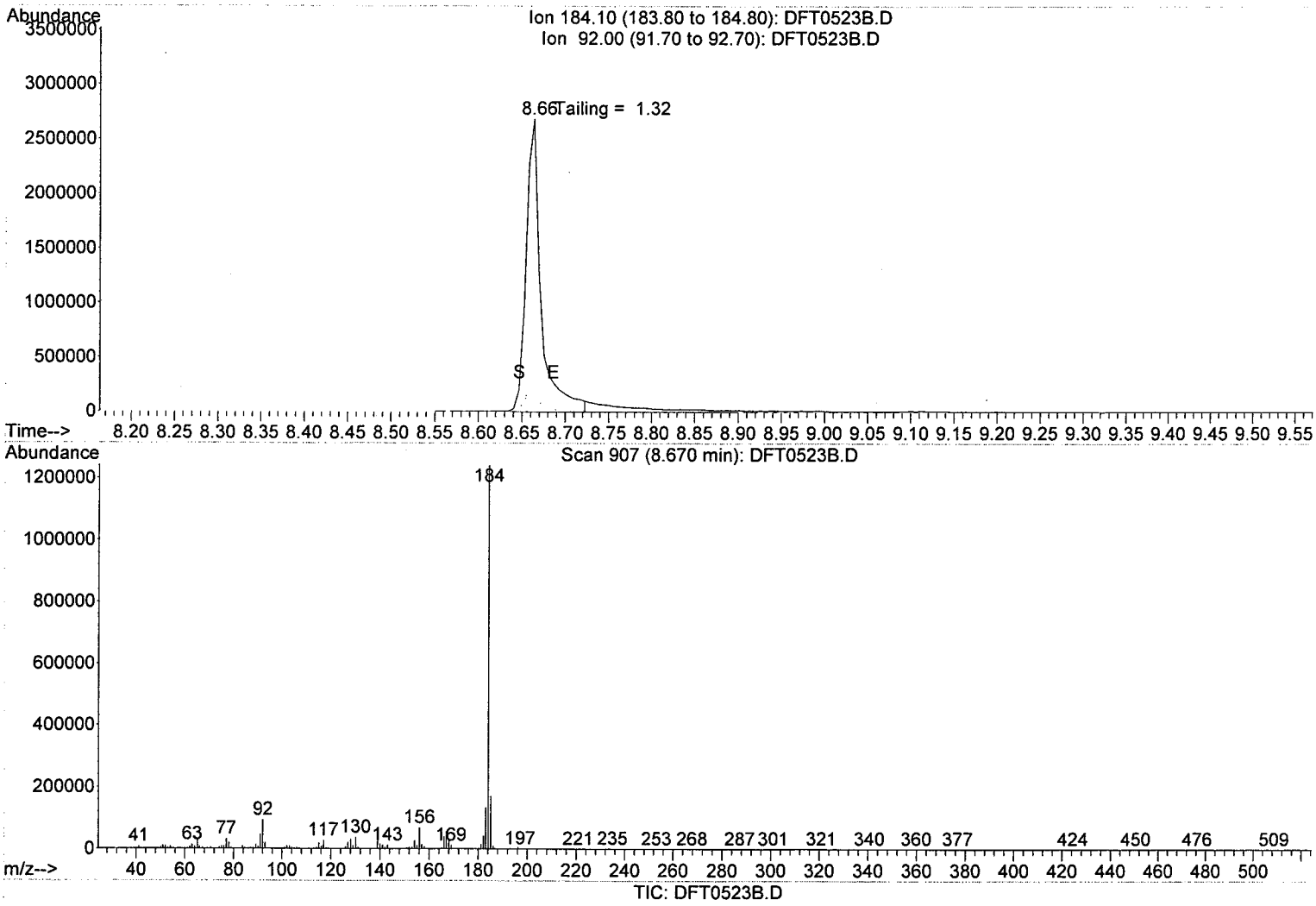
m/z	Abundance
49.10	4345.0
50.10	111136.0
51.10	468864.0
52.10	24432.0
56.00	13654.0
57.00	32568.0
61.10	7720.0
62.10	6394.0
63.00	23152.0
65.10	9099.0
69.00	531456.0
73.10	4088.0
74.00	49064.0
75.00	80744.0
76.00	28192.0
77.10	614464.0
78.10	41008.0
79.00	34496.0
80.00	30248.0
81.00	41392.0
82.00	11064.0
83.00	11693.0
85.00	7780.0
86.00	12192.0
87.00	5419.0
91.00	12120.0
92.00	11649.0
93.00	54712.0
94.00	4022.0
96.00	4024.0
98.00	42432.0
99.00	37232.0
101.00	24816.0
103.00	8847.0
104.00	13104.0
105.00	13900.0
106.00	4845.0
107.00	170304.0
108.00	28488.0
110.00	357504.0
111.00	47576.0
112.00	6081.0
116.00	10291.0
117.00	109632.0
118.00	9409.0
122.00	10370.0
123.00	16122.0
124.00	8326.0
125.00	7171.0
127.00	686720.0
128.00	46464.0
129.00	241856.0
130.00	21680.0
131.00	4214.0
134.00	7495.0
135.00	20848.0
136.00	6946.0
137.00	11144.0
141.00	31936.0
141.90	9480.0
143.00	8260.0
146.00	4992.0
147.00	15791.0
148.00	28328.0
149.00	7645.0
153.00	11625.0
154.00	5527.0
155.00	16808.0
156.00	26064.0
157.00	6371.0
157.90	6370.0
159.00	4151.0
160.00	9902.0
161.00	14810.0
162.00	4481.0
165.00	12931.0
166.00	9224.0
167.00	54800.0
168.00	29392.0
169.10	5082.0
171.90	5294.0
173.00	7423.0
174.00	12346.0
175.00	24600.0
176.00	7069.0
177.00	10671.0
179.00	40112.0
180.00	31856.0
181.00	14035.0

184.10	4337.0
185.00	21200.0
186.00	175744.0
187.00	51624.0
188.00	5901.0
189.00	10574.0
192.00	13888.0
193.00	14099.0
196.00	42840.0
197.90	1315840.0
199.00	88792.0
200.00	6901.0
201.40	6954.0
203.00	8234.0
204.00	41856.0
205.00	70232.0
206.00	318976.0
207.00	41472.0
208.00	9448.0
210.90	12388.0
216.00	6275.0
217.00	73608.0
218.00	9431.0
221.00	77984.0
223.00	16904.0
224.00	158784.0
225.00	42120.0
226.00	4814.0
227.00	58528.0
228.00	8080.0
228.90	11676.0
231.00	4837.0
233.90	3966.0
235.00	5047.0
237.00	4227.0
242.00	9188.0
243.10	7854.0
244.00	130696.0
245.00	18064.0
246.00	22576.0
246.80	4160.0
255.00	664256.0
256.00	94712.0
257.00	8030.0
258.00	36200.0
259.00	5511.0
265.00	11919.0
273.00	19760.0
274.00	54672.0
275.00	305216.0
276.00	38560.0
277.00	23152.0
285.00	4149.0
292.90	4885.0
296.00	64856.0
297.00	10399.0
303.00	7791.0
314.00	4196.0
315.00	7564.0
316.00	5004.0
323.00	21640.0
324.00	4657.0
326.90	4017.0
334.00	15041.0
335.00	4219.0
352.00	6036.0
353.10	4843.0
354.00	7841.0
364.90	27416.0
371.90	11996.0
401.90	4740.0
403.10	7502.0
420.90	5491.0
422.00	6071.0
423.00	45016.0
424.00	9197.0
441.00	115688.0
442.00	835456.0
443.00	171200.0
444.00	18728.0

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : DFT0523B.D
Acq On : 23 May 2012 9:51
Operator : DMC
Sample : DFT0523B
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 10:04:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 22 12:05:06 2012
Response via : Initial Calibration



(80) Benzidine

11.78min (+0.025) 0.00ug/l

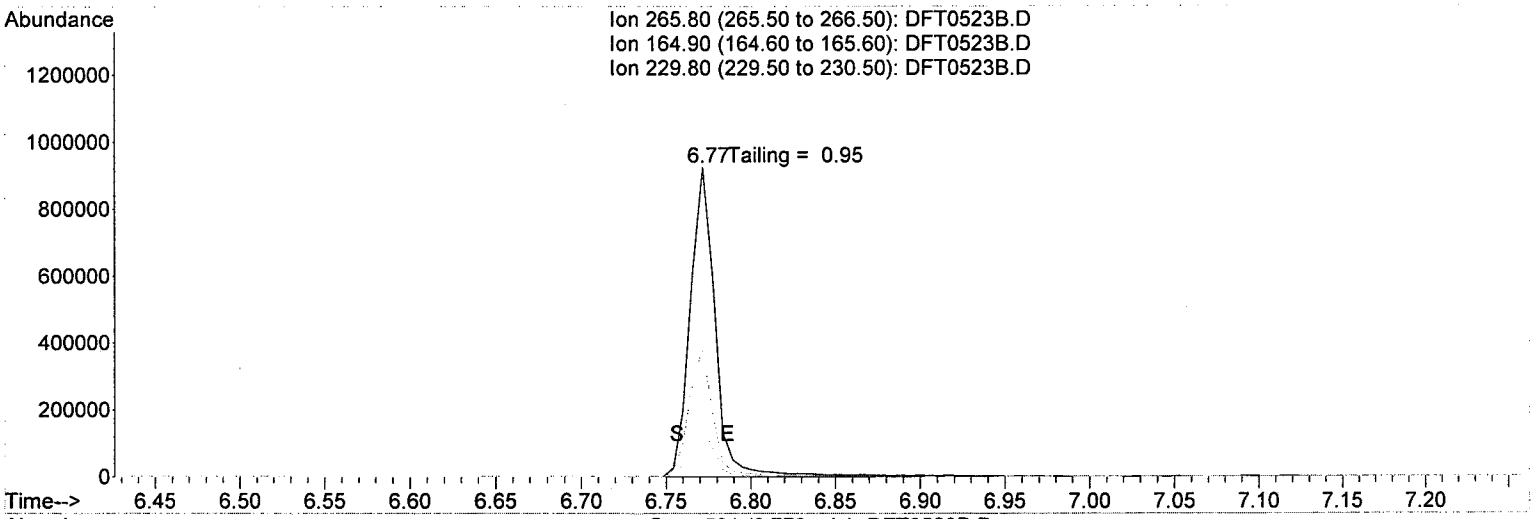
response 1002

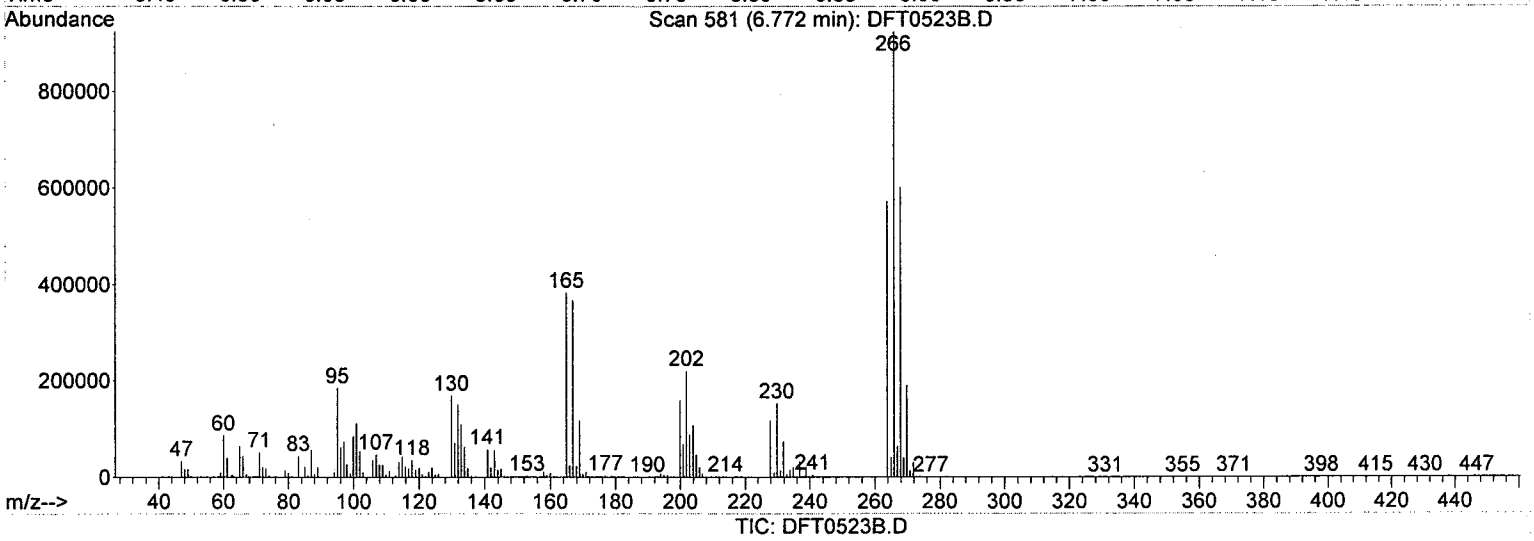
Ion	Exp%	Act%
184.10	100	100
92.00	6.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : DFT0523B.D
Acq On : 23 May 2012 9:51
Operator : DMC
Sample : DFT0523B
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 10:04:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Tue May 22 12:05:06 2012
Response via : Initial Calibration





TIC: DFT0523B.D

(72) Pentachlorophenol (C)

9.99min (-0.039) 0.00ug/l

response 1091

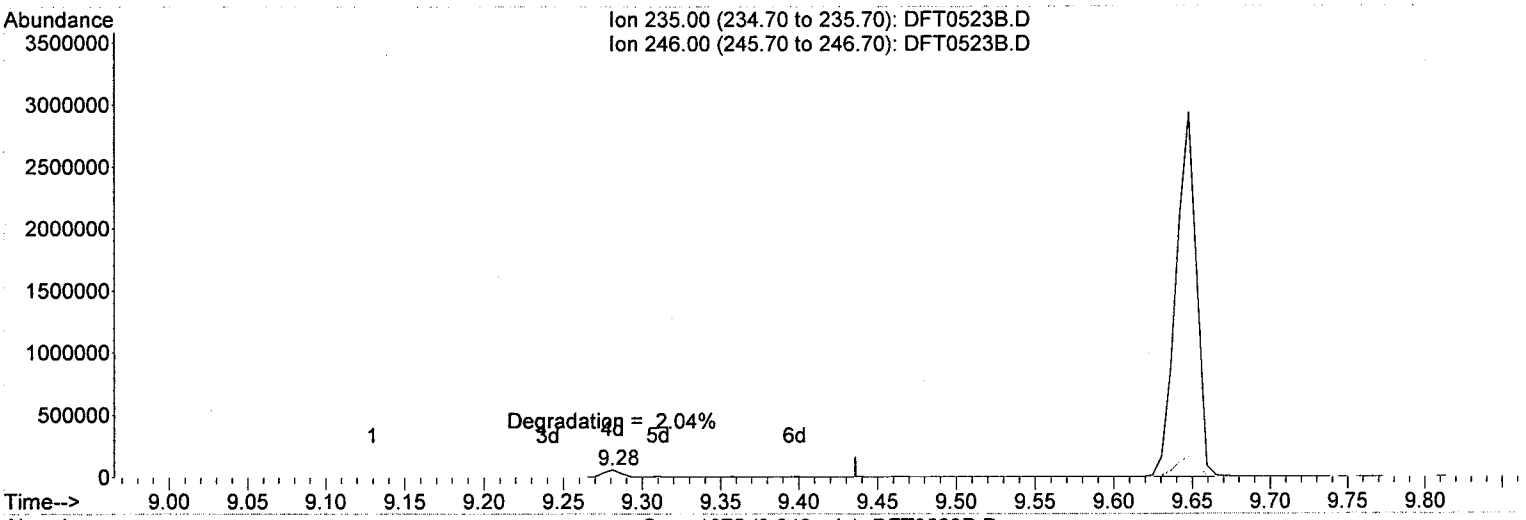
Ion	Exp%	Act%
265.80	100	100
164.90	40.50	94.78#
229.80	13.80	0.00#
0.00	0.00	0.00

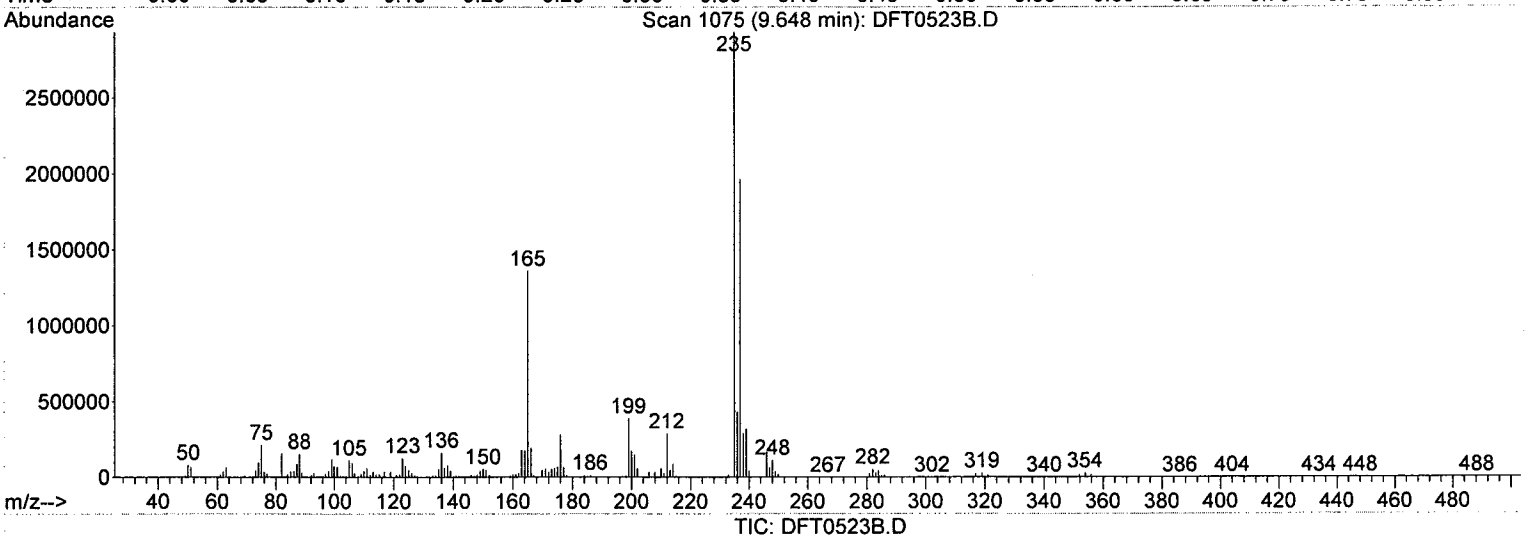
01023

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : DFT0523B.D
Acq On : 23 May 2012 9:51
Operator : DMC
Sample : DFT0523B
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 10:06:22 2012
Quant Method : C:\MSDCHEM\1\METHODS\4DDT.M
Quant Title : 4-CHLOROPHENOL
QLast Update : Tue Mar 08 08:42:29 2011
Response via : Initial Calibration





TIC: DFT0523B.D

(1) 4DDT

9.13min (+0.194) 0.07ug/l

response 1390

Ion	Exp%	Act%
235.00	100	100
246.00	0.00	78.13#
0.00	0.00	0.00
0.00	0.00	0.00

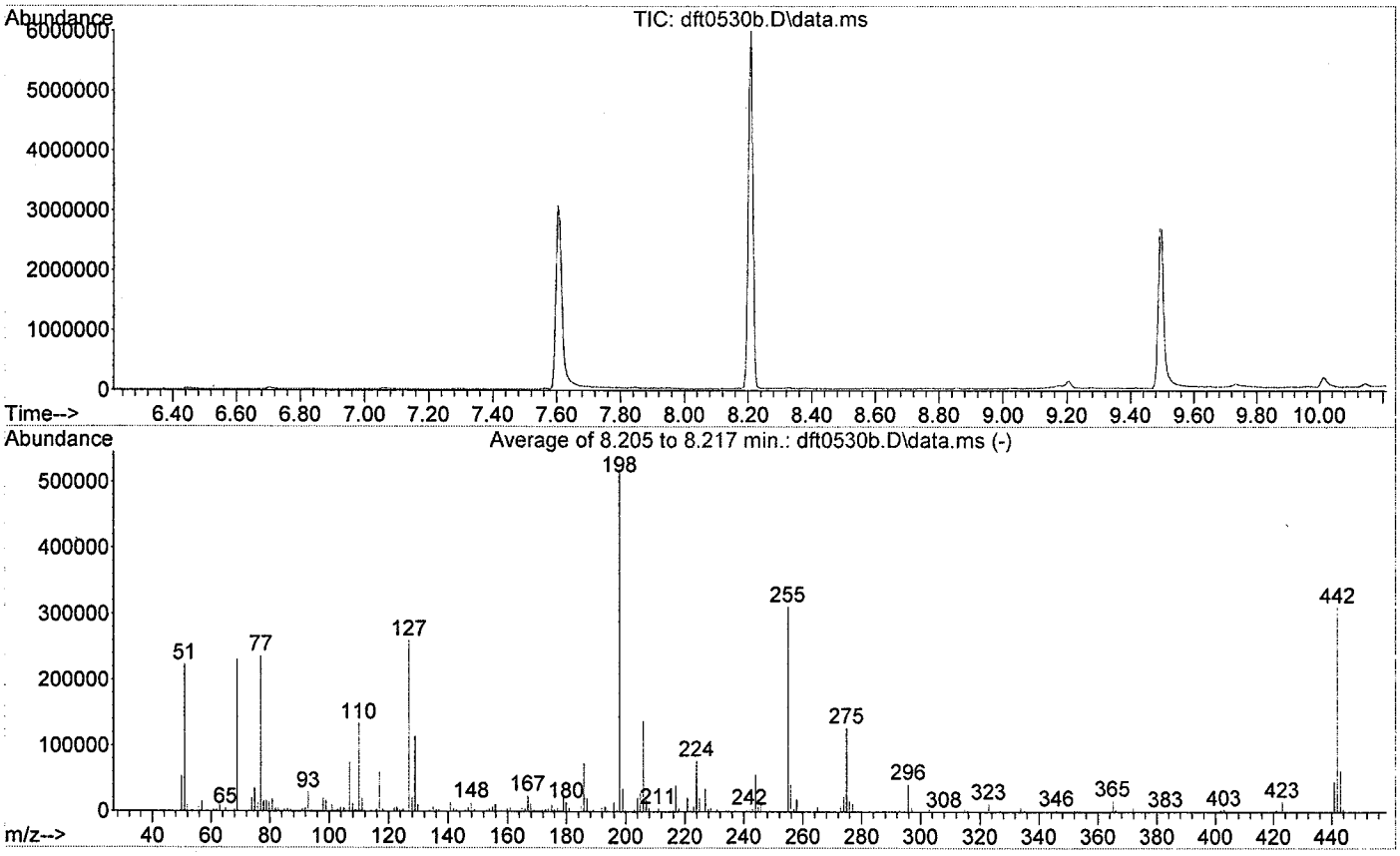
01024

DFTPP

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : dft0530b.D
Acq On : 30 May 2012 11:29
Operator : JLB
Sample : dft0530b
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\4DDT.M
Title : 8270/625 BNA
Last Update : Mon Apr 11 10:20:07 2011
Sample : dft0530b Inst : 308



AutoFind: Scans 861, 862, 863; Background Corrected with Scan 855

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.1	223864	PASS
68	69	0.00	2	1.5	3408	PASS
69	198	0.00	100	44.8	232543	PASS
70	69	0.00	2	0.4	1006	PASS
127	198	40	60	50.1	260287	PASS
197	198	0.00	1	0.5	2781	PASS
198	198	100	100	100.0	519552	PASS
199	198	5	9	6.8	35096	PASS
275	198	10	30	24.6	127933	PASS
365	198	1	100	3.4	17502	PASS
441	443	0.01	100	74.1	46693	PASS
442	198	40	100	59.9	310955	PASS
443	442	17	23	20.3	62984	PASS

Average of 8.205 to 8.217 min.: dft0530b.D\data.ms
dft0530b
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
40.10	245	56.00	6564	66.05	195	78.95	16750
42.30	314	57.00	15439	68.10	3408	80.00	13406
45.00	389	58.05	1165	69.00	232543	81.00	18375
48.00	308	59.90	142	70.00	1006	82.00	4420
49.00	1652	60.10	336	72.00	298	83.00	4681
50.05	53789	61.00	2576	73.05	1731	83.95	814
51.10	223864	62.05	3256	74.00	21647	84.95	3015
52.05	10847	63.05	8974	74.95	35287	85.95	4613
53.00	523	63.95	918	76.05	12287	87.05	2439
54.30	95	64.20	208	77.05	237211	87.95	1049
55.10	546	65.05	4760	78.05	16290	88.80	146

Average of 8.205 to 8.217 min.: dft0530b.D\data.ms
dft0530b
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.10	461	102.15	493	111.95	2476	120.90	477
90.95	4659	103.00	3449	113.00	557	122.00	5185
92.00	4749	104.00	6245	113.20	136	122.95	7033
93.00	29101	105.00	5307	113.90	96	124.00	3739
94.00	1902	106.00	790	115.00	280	124.95	3462
95.00	273	106.20	442	116.00	3864	126.10	786
96.00	1302	107.00	74753	117.00	59224	127.00	260287
97.95	20613	108.00	11738	118.00	4272	128.00	20209
99.00	16714	108.95	2396	119.05	701	129.00	113821
100.05	1436	110.00	134035	119.60	107	130.00	10404
101.00	9622	111.00	20061	120.00	1077	130.95	1761

Average of 8.205 to 8.217 min.: dft0530b.D\data.ms
dft0530b
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.00	887	141.00	13528	150.00	740	157.00	1586
133.05	305	142.00	4365	150.95	976	157.30	380
133.95	3049	142.95	2504	151.30	733	158.00	2516
135.00	7454	143.80	146	151.60	520	158.90	1733
136.05	3451	144.20	840	151.95	942	160.00	4594
137.00	3582	144.90	927	152.80	613	161.05	5854
137.80	393	145.10	246	153.05	3178	162.05	1570
138.05	365	146.00	1881	154.00	3329	162.90	431
139.00	389	147.00	6244	155.05	7424	163.10	130
140.00	1221	148.00	14136	156.00	11047	163.80	133
140.20	325	149.00	3286	156.80	183	164.15	793

Average of 8.205 to 8.217 min.: dft0530b.D\data.ms
dft0530b
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.95	5527	175.05	10338	185.05	9548	193.95	1343
166.05	4259	176.05	3045	186.00	73283	194.70	101
167.00	24169	177.00	5227	187.10	19758	195.05	835
168.05	11847	177.95	1612	188.05	2139	195.95	14153
169.05	1884	179.00	22709	188.90	1630	197.10	2781
169.95	1234	180.00	13953	189.05	2687	198.00	519552
170.95	1296	181.00	6155	189.80	180	199.00	35096
171.95	2359	181.80	54	190.00	558	200.00	2655
173.05	3301	182.05	942	191.00	2101	201.20	1219
174.00	3681	182.90	659	192.00	6209	201.65	1676
174.20	1135	184.00	1446	193.10	7978	202.05	350

Average of 8.205 to 8.217 min.: dft0530b.D\data.ms
dft0530b
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
203.05	3203	211.80	368	219.20	260	229.05	6923
204.10	21039	212.10	191	220.00	458	229.90	871
205.05	31742	213.00	461	221.00	21330	231.00	2791
206.05	137925	213.30	117	221.80	1938	232.10	691
207.05	17676	214.00	256	222.00	3085	233.05	874
208.00	4802	215.00	2074	223.00	7628	234.05	2372

208.80	546	216.00	3080	224.05	77445	235.00	2729
209.00	529	216.20	393	225.05	20471	236.00	1179
210.00	1062	217.00	39616	226.05	2245	236.80	414
210.20	1536	218.00	5001	227.00	34875	237.05	2051
211.10	5230	218.85	282	228.05	4840	238.00	165

Average of 8.205 to 8.217 min.: dft0530b.D\data.ms
dft0530b
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
239.00	1272	248.90	1999	260.90	717	271.00	729
240.00	1082	250.10	348	262.10	166	272.05	962
241.05	2346	251.00	537	263.15	293	273.05	9758
242.05	4141	252.00	796	263.90	231	274.05	22357
243.10	3931	252.95	1222	265.05	7397	275.00	127933
244.05	56259	255.00	311787	265.90	1422	276.05	16572
245.05	6836	256.00	42080	266.80	54	277.00	12456
246.00	12717	257.00	3874	267.20	72	278.05	1943
246.95	2298	258.00	19533	267.80	221	278.80	382
247.80	97	259.05	3131	269.80	107	279.10	214
248.15	368	260.00	189	270.10	309	279.80	50

Average of 8.205 to 8.217 min.: dft0530b.D\data.ms
dft0530b
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
281.00	154	289.50	132	298.00	549	311.00	80
282.10	293	290.05	533	301.00	551	311.15	163
282.60	188	290.90	286	302.05	424	312.00	114
283.05	1652	291.25	160	303.05	4309	312.70	55
283.95	1134	292.05	580	303.90	270	313.00	229
285.05	2176	293.05	2334	304.15	1027	313.25	378
285.90	249	293.90	981	307.50	93	314.05	1902
286.10	235	294.90	170	308.00	657	314.95	3861
286.90	57	295.10	439	309.05	587	315.95	2036
287.85	228	296.00	42315	309.85	489	317.10	412
288.95	529	297.05	6422	310.10	112	319.95	161

Average of 8.205 to 8.217 min.: dft0530b.D\data.ms
dft0530b
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
320.90	274	328.10	1127	341.10	1514	354.90	647
321.15	873	329.05	235	342.05	293	356.30	87
321.70	245	329.90	69	343.00	73	358.90	144
322.15	395	330.60	67	346.05	2688	359.10	87
323.10	12506	332.05	823	346.90	560	360.95	171
323.95	1466	333.00	1525	347.30	60	364.00	72
324.15	1608	334.05	7914	350.10	97	365.05	17502
324.90	202	335.10	2704	351.90	725	366.00	2738
325.35	217	336.00	60	352.10	2495	367.05	163
325.90	197	339.05	162	353.05	2494	369.85	282
327.00	2720	339.70	63	354.05	3730	371.10	765

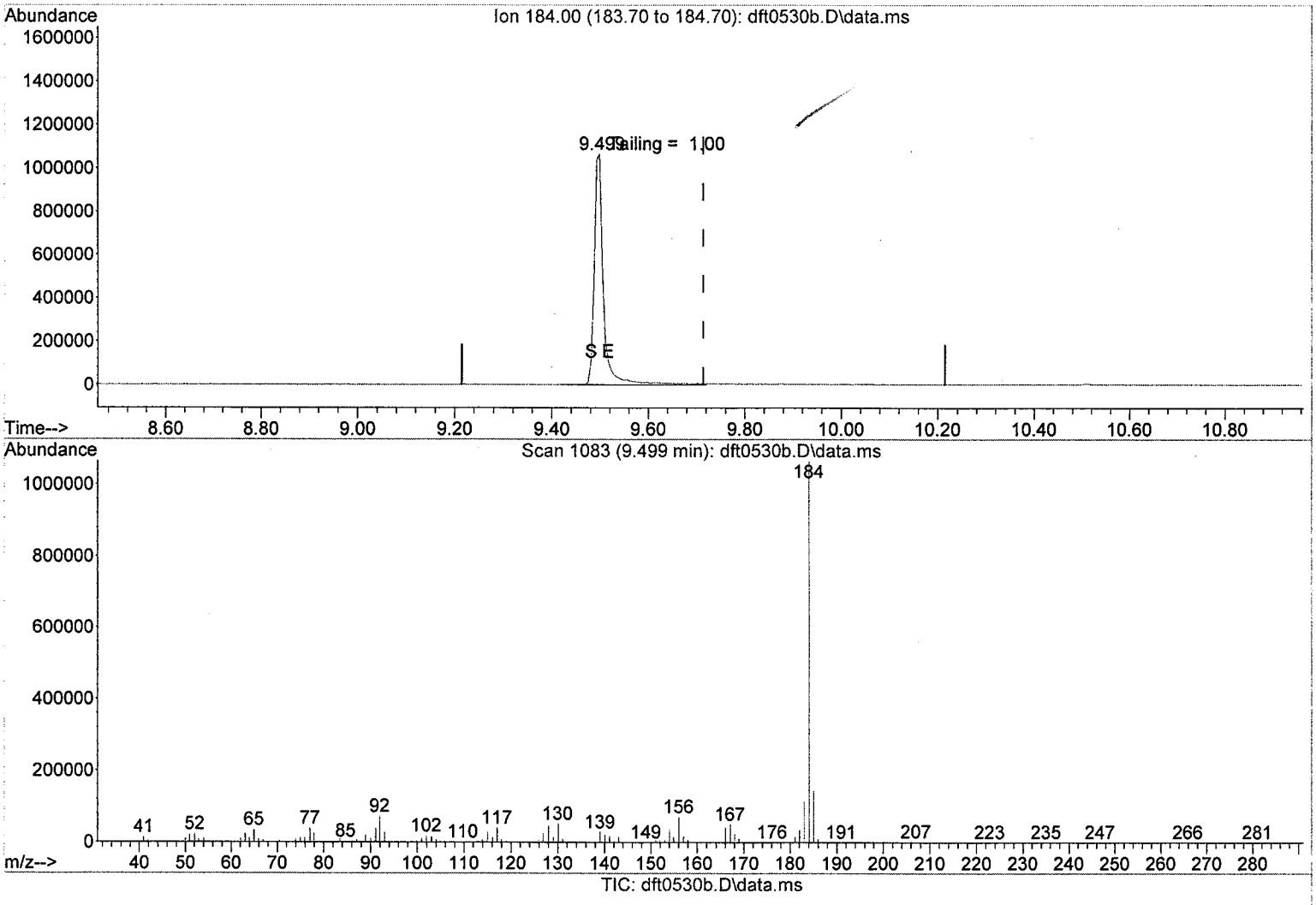
Average of 8.205 to 8.217 min.: dft0530b.D\data.ms
dft0530b
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
372.05	5681	390.10	798	410.40	64	444.10	4963
373.05	1384	390.80	128	421.10	2478	445.15	449
373.90	142	391.05	477	422.15	2170		
376.80	153	391.70	88	423.05	15620		
377.00	96	392.15	159	423.90	1393		
382.70	284	395.80	115	424.20	1286		
383.05	1106	401.05	351	425.05	123		
383.95	558	402.00	2583	435.95	184		
385.00	154	403.05	3279	441.05	46693		
389.00	50	404.00	1274	442.10	310955		
389.70	189	404.95	156	443.10	62984		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : dft0530b.D
Acq On : 30 May 2012 11:29
Operator : JLB
Sample : dft0530b Inst : 308
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 12:37:44 2012
Quant Method : C:\msdchem\1\METHODS\4DDT.M
Quant Title : 8270/625 BNA
QLast Update : Mon Apr 11 10:20:07 2011
Response via : Initial Calibration



(1) benzidine

9.499min (-0.216) 0.00 ng/uL

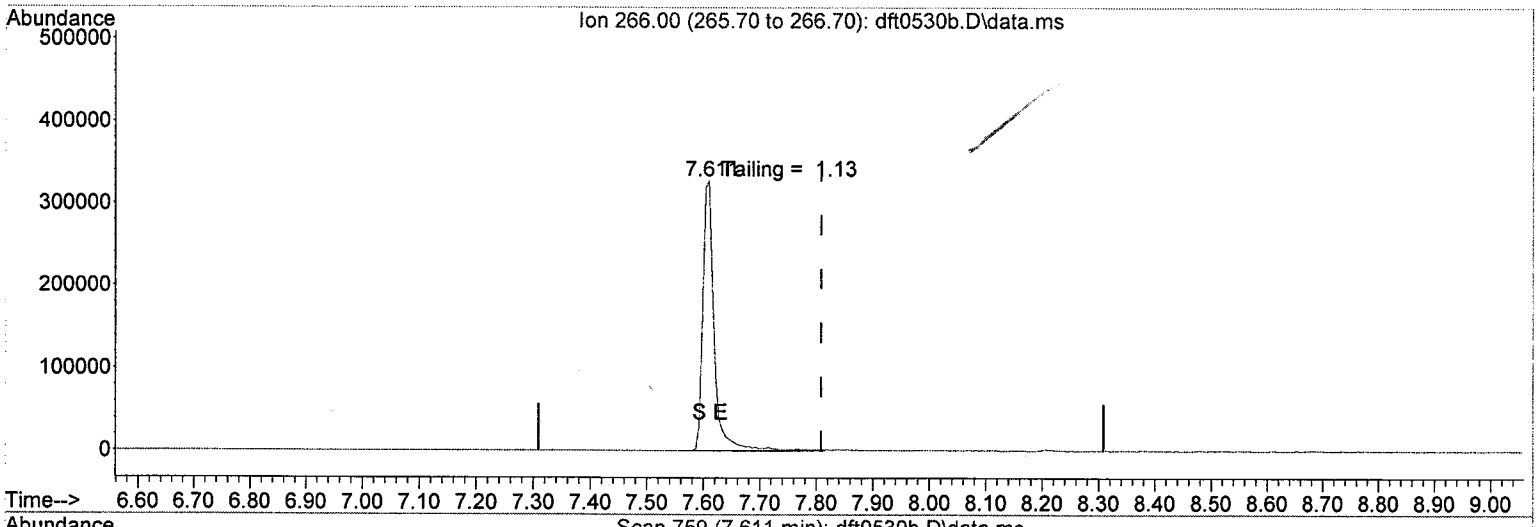
response 1394952

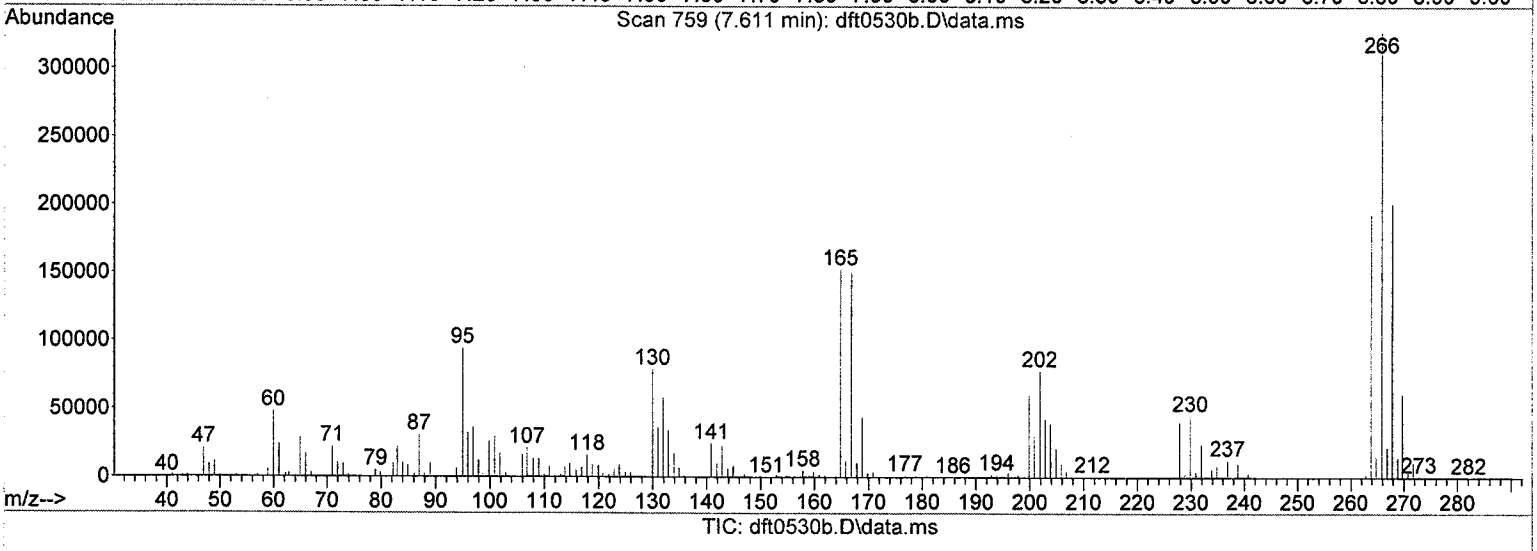
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : dft0530b.D
Acq On : 30 May 2012 11:29
Operator : JLB
Sample : dft0530b Inst : 308
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 12:37:44 2012
Quant Method : C:\msdchem\1\METHODS\4DDT.M
Quant Title : 8270/625 BNA
QLast Update : Mon Apr 11 10:20:07 2011
Response via : Initial Calibration





TIC: dft0530b.D\data.ms

(2) pentachlorophenol

7.611min (-0.198) 0.00 ng/uL

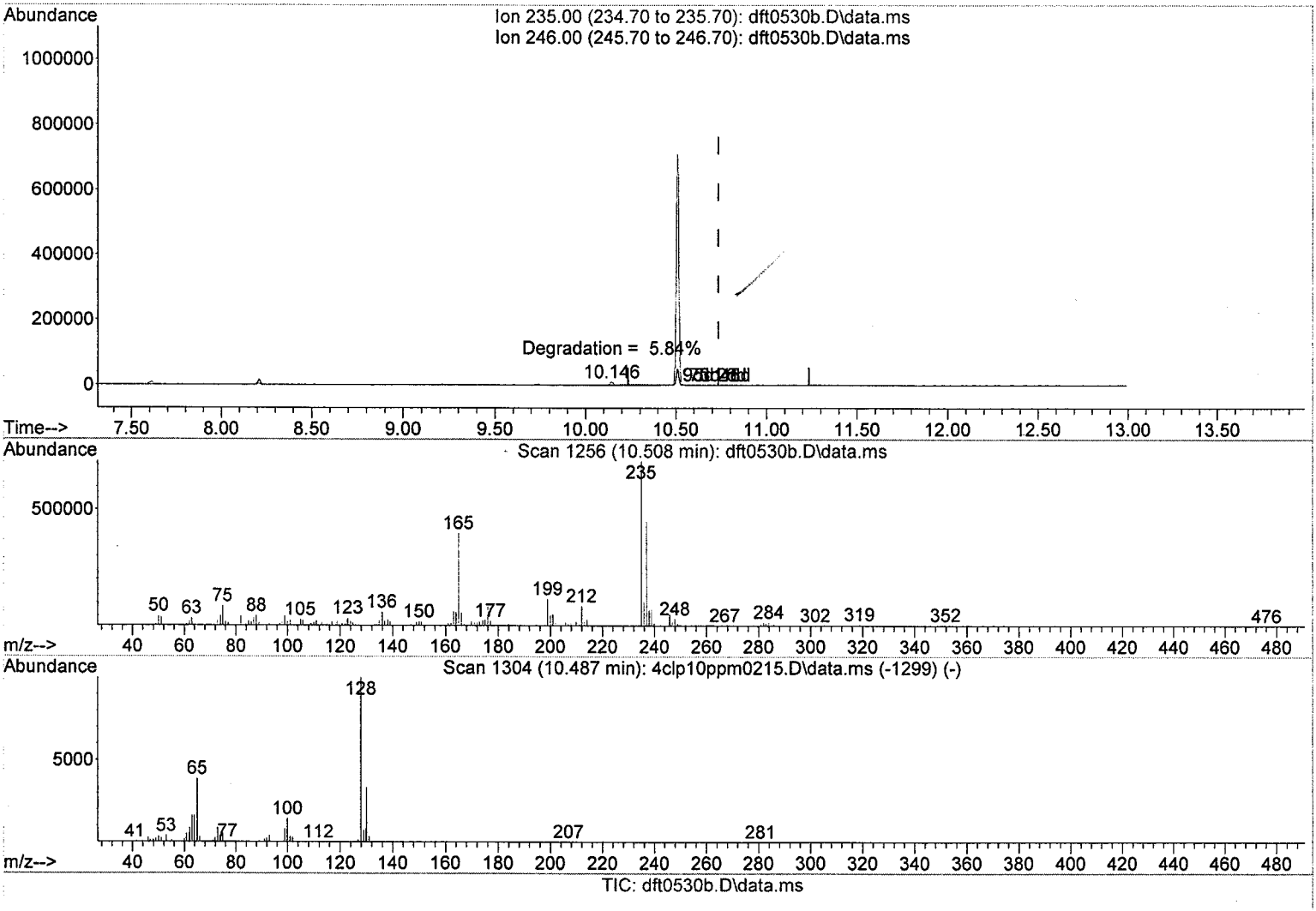
response 448053

Ion	Exp%	Act%
266.00	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 : C:\msdchem\1\DATA\053012_308\
Data File : dft0530b.D
Acq On : 30 May 2012 11:29
Operator : JLB
Sample : dft0530b Inst : 308
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 30 12:37:44 2012
Quant Method : C:\msdchem\1\METHODS\4DDT.M
Quant Title : 8270/625 BNA
QLast Update : Mon Apr 11 10:20:07 2011
Response via : Initial Calibration



TIC: dft0530b.D\data.ms

(3) 4-ddt

10.508min (-0.228) 10.64 ng/uL m

response 764633

Ion	Exp%	Act%
235.00	100	100
246.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

METHOD BLANK DATA SHEET
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050712

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1206145-BLK1 File ID: 1206145-BLK1.D

Prepared: 05/15/12 07:59 Analyzed: 05/23/12 12:21

Preparation: 3510C Liquid-Liquid Ext Initial/Final: 1000 mL / 1 mL

QC Batch: 1206145 Sequence: 2E23055 Calibration: 2E23023 Instrument: 195

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
83-32-9	Acenaphthene	5.0	ug/L	0.050	5.0	U
208-96-8	Acenaphthylene	5.0	ug/L	0.050	5.0	U
120-12-7	Anthracene	5.0	ug/L	0.018	5.0	U
56-55-3	Benzo(a)anthracene	0.040	ug/L	0.026	1.0	J
50-32-8	Benzo(a)pyrene	1.0	ug/L	0.040	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	ug/L	0.071	1.0	U
207-08-9	Benzo(k)fluoranthene	0.070	ug/L	0.031	1.0	J
191-24-2	Benzo(g,h,i)perylene	1.0	ug/L	0.026	1.0	U
218-01-9	Chrysene	0.050	ug/L	0.031	1.0	J
53-70-3	Dibenz(a,h)anthracene	2.0	ug/L	0.034	2.0	U
206-44-0	Fluoranthene	1.0	ug/L	0.017	1.0	U
86-73-7	Fluorene	5.0	ug/L	0.022	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.0	ug/L	0.024	2.0	U
91-57-6	2-Methylnaphthalene	5.0	ug/L	0.024	5.0	U
91-20-3	Naphthalene	5.0	ug/L	0.050	5.0	U
85-01-8	Phenanthrene	2.0	ug/L	0.024	2.0	U
129-00-0	Pyrene	5.0	ug/L	0.025	5.0	U

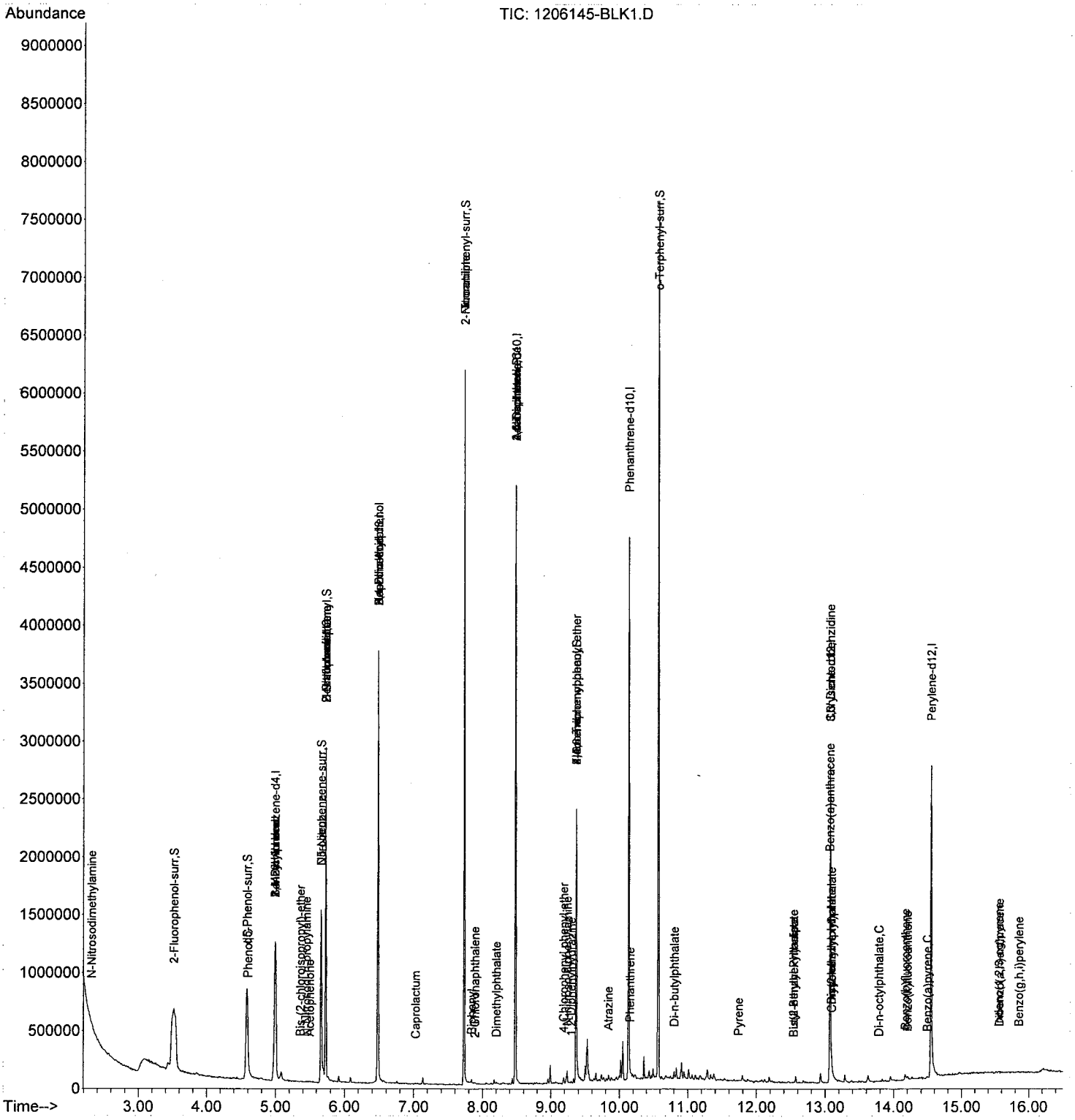
System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Nitrobenzene-d5	10.0	6.54	65	31 - 123	
2-Fluorobiphenyl	10.0	7.51	75	25 - 113	
o-Terphenyl	10.1	8.34	83	42 - 125	

Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
1,4-Dichlorobenzene-d4	446394	4.99	362232	5.24	
Naphthalene-d8	1968505	6.48	1571264	6.72	
Acenaphthene-d10	1148072	8.48	900280	8.72	
Phenanthrene-d10	1794953	10.14	1451803	10.38	
Chrysene-d12	1109288	13.07	888866	13.33	
Perylene-d12	1195485	14.55	1051882	14.81	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



01032

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	4.99	152	446394	5.00	ug/l	0.00 123.23%
21) Naphthalene-d8	6.48	136	1968505	5.00	ug/l	0.00 125.28%
42) Acenaphthene-d10	8.48	164	1148072	5.00	ug/l	0.00 127.52%
65) Phenanthrene-d10	10.14	188	1794953	5.00	ug/l	0.00 123.64%
79) Chrysene-d12	13.07	240	1109288	5.00	ug/l	0.00 124.80%
90) Perylene-d12	14.55	264	1195485	5.00	ug/l	0.00 113.65%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.52	112	915008	8.72	ug/l	0.00
5) d5-Phenol-surr	4.59	99	792816	5.99	ug/l	0.00
19) Decafluorobiphenyl	5.73	334	690892	7.14	ug/l	0.00
22) D5-Nitrobenzene-surr	5.67	128	361029	6.54	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.73	172	1859692	7.51	ug/l	0.00
64) 2,4,6-Tribromophenol	9.37	330	280821	10.62	ug/l	0.00
76) o-Terphenyl-surr	10.57	230	1383124	8.34	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.32	74	2521	0.04	ug/l #	1
3) Pyridine	0.00	79	0	N.D.		
6) Phenol	4.60	94	1972	0.01	ug/l #	1
7) Bis (2-chloroethyl)ether	0.00	93	0	N.D.		
8) 2-Chlorophenol	0.00	128	0	N.D.		
9) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
10) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
11) Benzaldehyde	0.00	105	0	N.D.		
12) Benzyl Alcohol	4.99	108	2190	0.03	ug/l #	1
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
14) 2-Methylphenol	4.99	108	2190	0.02	ug/l #	1
15) Bis-(2-chloroisopropyl)-et	5.36	45	1731	0.01	ug/l #	57
16) Acetophenone	5.50	105	2458	0.02	ug/l #	71
17) 4-Methylphenol	5.52	107	1003	N.D.		
18) N-Nitrosodi-n-propylamine	5.45	70	1240	0.02	ug/l #	1
20) Hexachloroethane	5.73	117	51055	1.04	ug/l #	20
23) Nitrobenzene	5.66	77	2362	0.02	ug/l #	1
24) Isophorone	6.13	82	1866	N.D.		
25) 2-Chloroaniline	5.73	127	7926	0.06	ug/l #	100
26) 2-Nitrophenol	5.73	139	2025	0.03	ug/l #	74
27) 2,4-Dimethylphenol	6.48	107	13970	0.13	ug/l #	5
28) Benzoic Acid	6.49	105	2024	0.91	ug/l #	1
29) Bis(2-chloroethoxy)metha	6.48	93	1006	N.D.		
30) 2,4-Dichlorophenol	0.00	162	0	N.D.		
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
32) Naphthalene	6.50	128	1040	N.D.		
33) 4-Chloroaniline	0.00	127	0	N.D.		
34) 2,6-Dichlorophenol	0.00	162	0	N.D.		

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	0.00	225	0	N.D.			
36) Caprolactum	7.03	55	2928	0.08	ug/l	#	74
37) 1,2-bis(2-chloroethoxy)e	0.00	63	0	N.D.			
38) 4-Chloro-3-methylphenol	0.00	107	0	N.D.			
39) 2-Methylnaphthalene	0.00	142	0	N.D.			
40) 1-Methylnaphthalene	0.00	142	0	N.D.			
41) 1,3-Dinitrobenzene	0.00	168	0	N.D.			
43) Hexachlorocyclopentadien	0.00	237	0	N.D.			
44) 1,2,4,5-Tetrachlorobenze	0.00	216	0	N.D.			
45) 2,4,6-Trichlorophenol	0.00	196	0	N.D.			
46) 2,4,5-Trichlorophenol	0.00	198	0	N.D.			
48) 2-Chloronaphthalene	7.88	162	2455	0.01	ug/l	#	85
49) Biphenyl	7.84	154	5241	0.02	ug/l	#	80
50) 2-Nitroaniline	7.73	138	1038	0.02	ug/l	#	1
51) Dimethylphthalate	8.20	163	3233	0.01	ug/l	#	58
52) 2,6-Dinitrotoluene	8.48	165	150177	2.69	ug/l	#	23
53) Acenaphthylene	0.00	152	0	N.D.			
54) Acenaphthene	8.48	154	3189	0.01	ug/l	#	8
55) 4-Nitrophenol	8.48	65	3222	0.72	ug/l	#	31
56) 2,4-Dinitrotoluene	8.48	165	150177	2.31	ug/l	#	10
57) 2,4-Dinitrophenol	0.00	184	0	N.D.			
58) Dibenzofuran	0.00	168	0	N.D.			
59) 2,3,5,6-Tetrachloropheno	0.00	232	0	N.D.			
60) 2,3,4,6-Tetrachloropheno	0.00	232	0	N.D.			
61) Diethylphthalate	8.99	149	24180	Below Cal			100
62) 4-Chlorophenyl phenyl ethe	9.19	204	1433	0.01	ug/l	#	30
63) Fluorene	9.37	166	18046	~~0.07~~	ug/l	#	71
66) 4,6-Dinitro-2-methyl-phe	0.00	198	0	N.D.			
67) 1,2-Diphenylhydrazine	9.29	77	2789	0.01	ug/l	#	1
68) N-nitroso-diphenylamine	9.24	169	2081	0.01	ug/l	#	16
69) 4-Bromophenyl phenyl ether	9.37	248	17742	0.29	ug/l	#	1
70) Hexachlorobenzene	0.00	284	0	N.D.			
71) Atrazine	9.84	200	2454	0.05	ug/l	#	23
72) Pentachlorophenol	0.00	266	0	N.D.			
73) Phenanthrene	10.16	178	4553	0.01	ug/l	#	51
74) Anthracene	10.22	178	1832	N.D.			
75) Carbazole	10.43	167	5065	Below Cal		#	1
77) Di-n-butylphthalate	10.80	149	31052	0.10	ug/l		99
78) Fluoranthene	11.47	202	2949	N.D.			
80) Benzidine	0.00	184	0	N.D.			
81) Pyrene	11.73	202	4005	0.01	ug/l	#	62
82) Butyl Benzyl Phthalate	12.54	149	1865	0.01	ug/l		86
83) Bis(2-ethylhexyl)adipate	12.54	129	2001	0.02	ug/l	#	63
84) Bis(2-ethylhexyl)phthalate	13.09	149	12218	0.07	ug/l	#	85
85) Dicyclohexylphthalate	13.09	149	12218	0.05	ug/l	#	70
86) 3,3' Dichlorobenzidine	13.06	252	2630	0.03	ug/l	#	74
87) Benzo(a)anthracene	13.06	228	11545	0.04	ug/l	#	36
88) Chrysene	13.10	228	12811	0.05	ug/l	#	86
89) Di-n-octylphthalate	13.77	149	2642	0.64	ug/l	#	100
91) Benzo(b)fluoroanthene	14.18	252	10277	0.04	ug/l	#	68
92) Benzo(k)fluoroanthene	14.21	252	18048	0.07	ug/l	#	86
93) Benzo(a)pyrene	14.49	252	9169	0.04	ug/l	#	88

01034

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

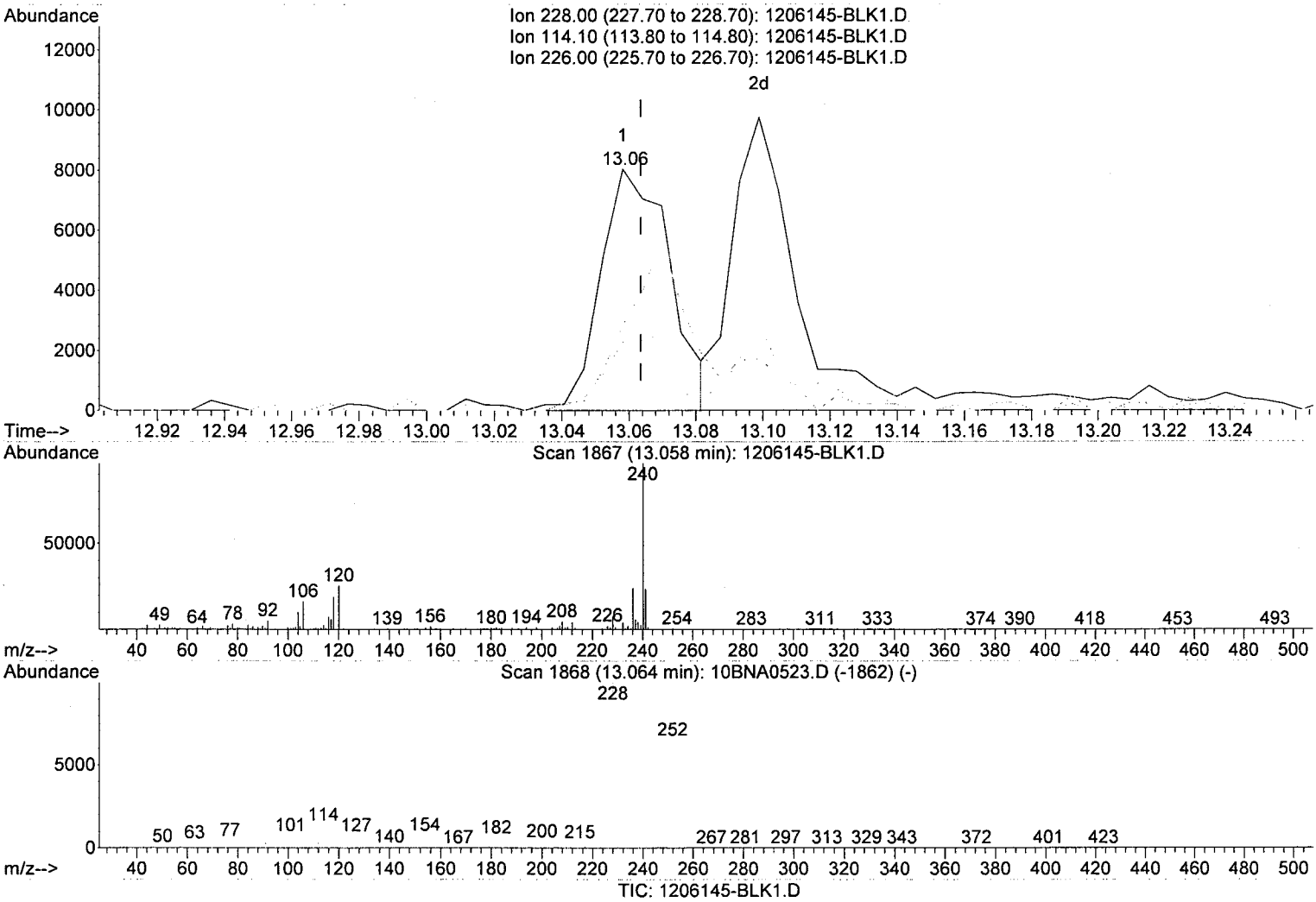
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.56	276	3037	0.01 ug/l #	41
95) Dibenzo(a,h)anthracene	15.57	278	2007	0.01 ug/l #	41
96) Benzo(g,h,i)perylene	15.85	276	4280	0.02 ug/l #	63

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

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1206145-BLK1.D

(87) Benzo(a)anthracene

13.06min (-0.005) 0.04ug/l

response 11545

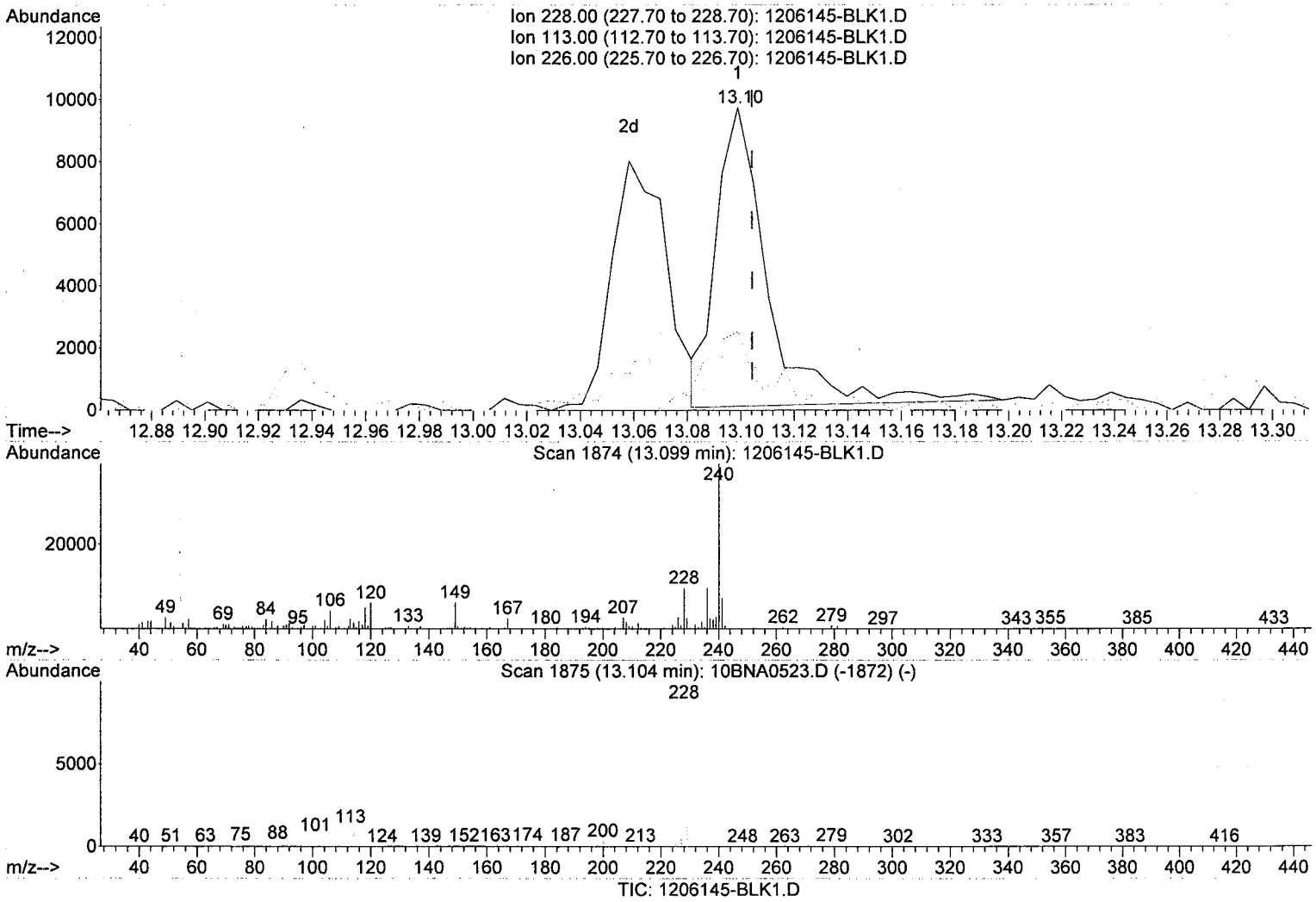
Ion	Exp%	Act%
228.00	100	100
114.10	15.50	83.00#
226.00	26.60	30.82
0.00	0.00	0.00

01035

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1206145-BLK1.D

(88) Chrysene

13.10min (-0.005) 0.05ug/l

response 12811

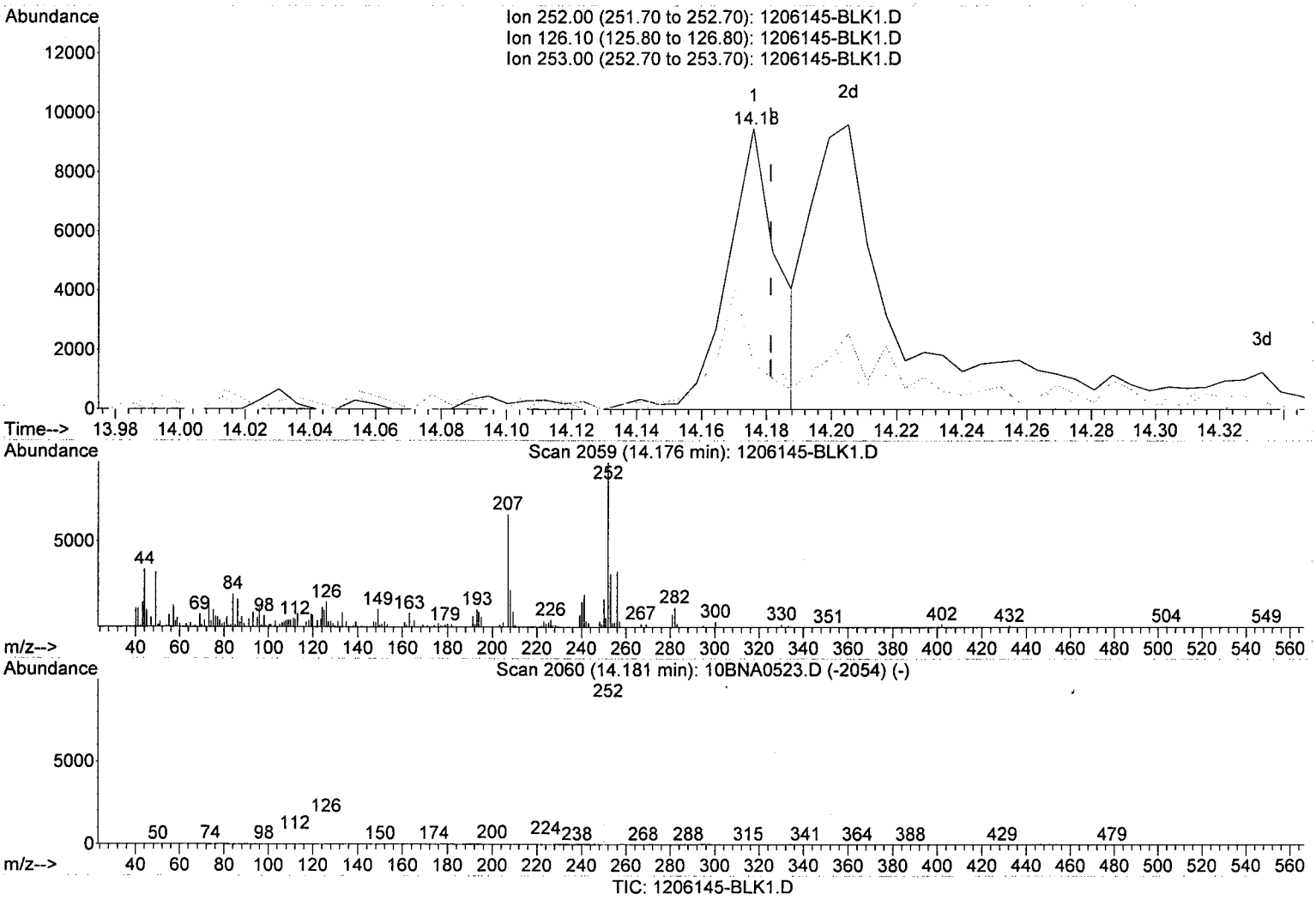
Ion	Exp%	Act%
228.00	100	100
113.00	22.00	34.11#
226.00	28.80	25.77
0.00	0.00	0.00

01037

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1206145-BLK1.D

(91) Benzo(b)fluoroanthene

14.18min (-0.005) 0.04ug/l

response 10277

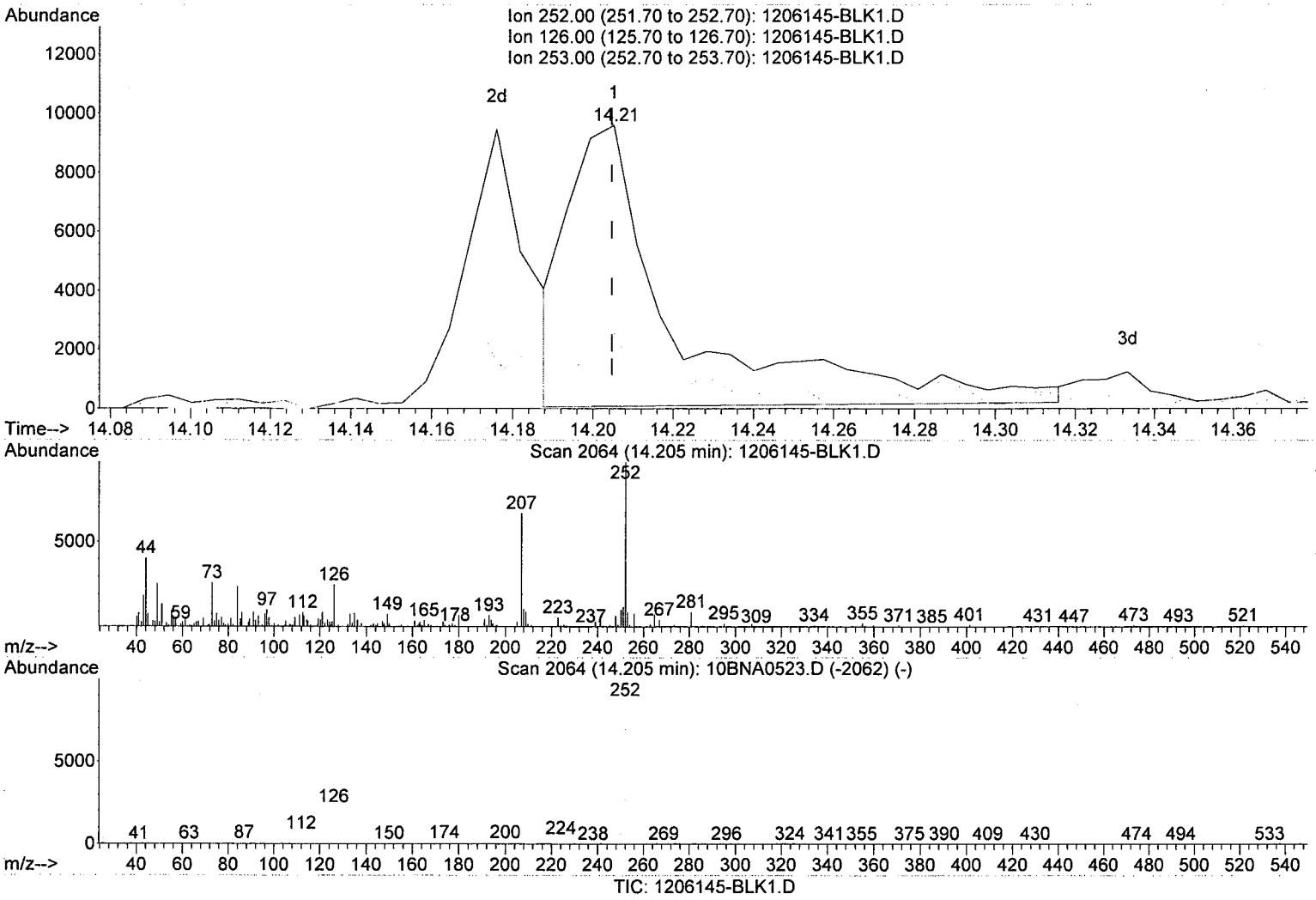
Ion	Exp%	Act%
252.00	100	100
126.10	16.70	36.77#
253.00	22.30	32.52#
0.00	0.00	0.00

01038

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1206145-BLK1.D

(92) Benzo(k)fluoroanthene

14.21min (+0.000) 0.07ug/l

response 18048

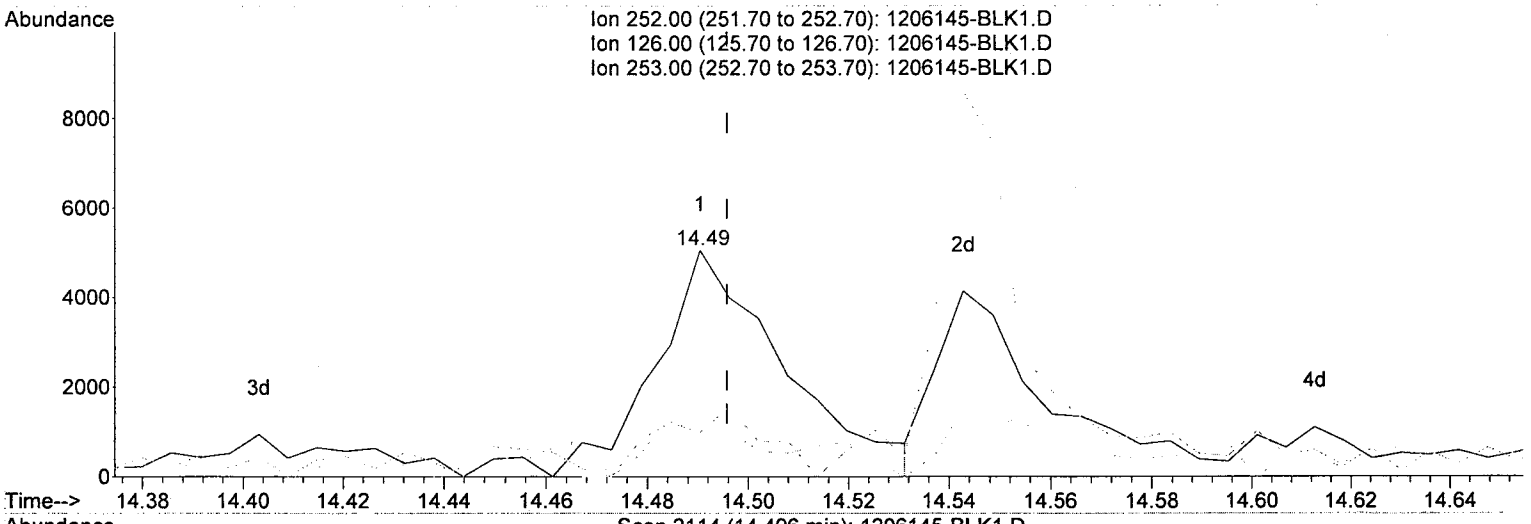
Ion	Exp%	Act%
252.00	100	100
126.00	20.30	21.37
253.00	22.20	10.83#
0.00	0.00	0.00

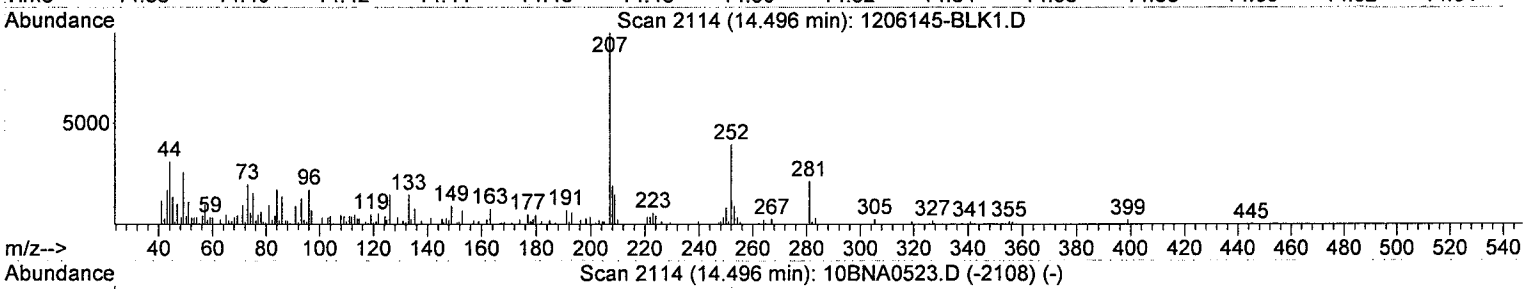
01039

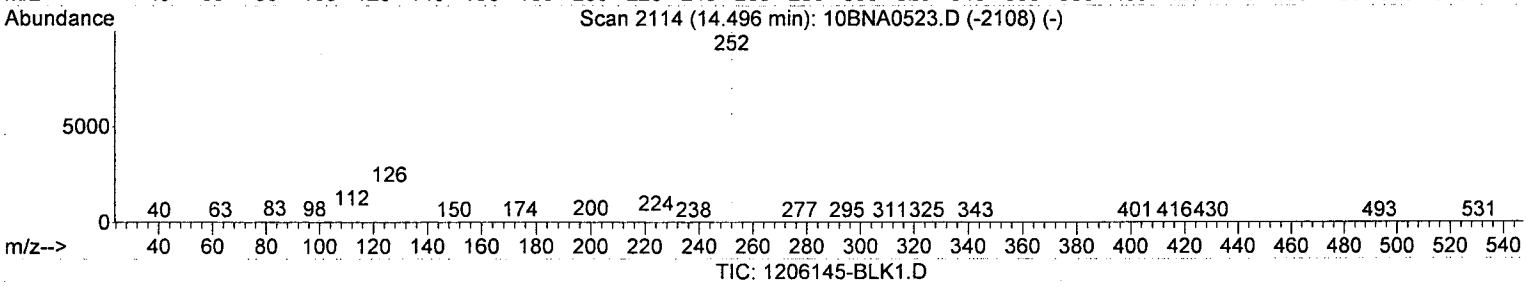
Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration







TIC: 1206145-BLK1.D

(93) Benzo(a)pyrene (C)

14.49min (-0.005) 0.04ug/l

response 9169

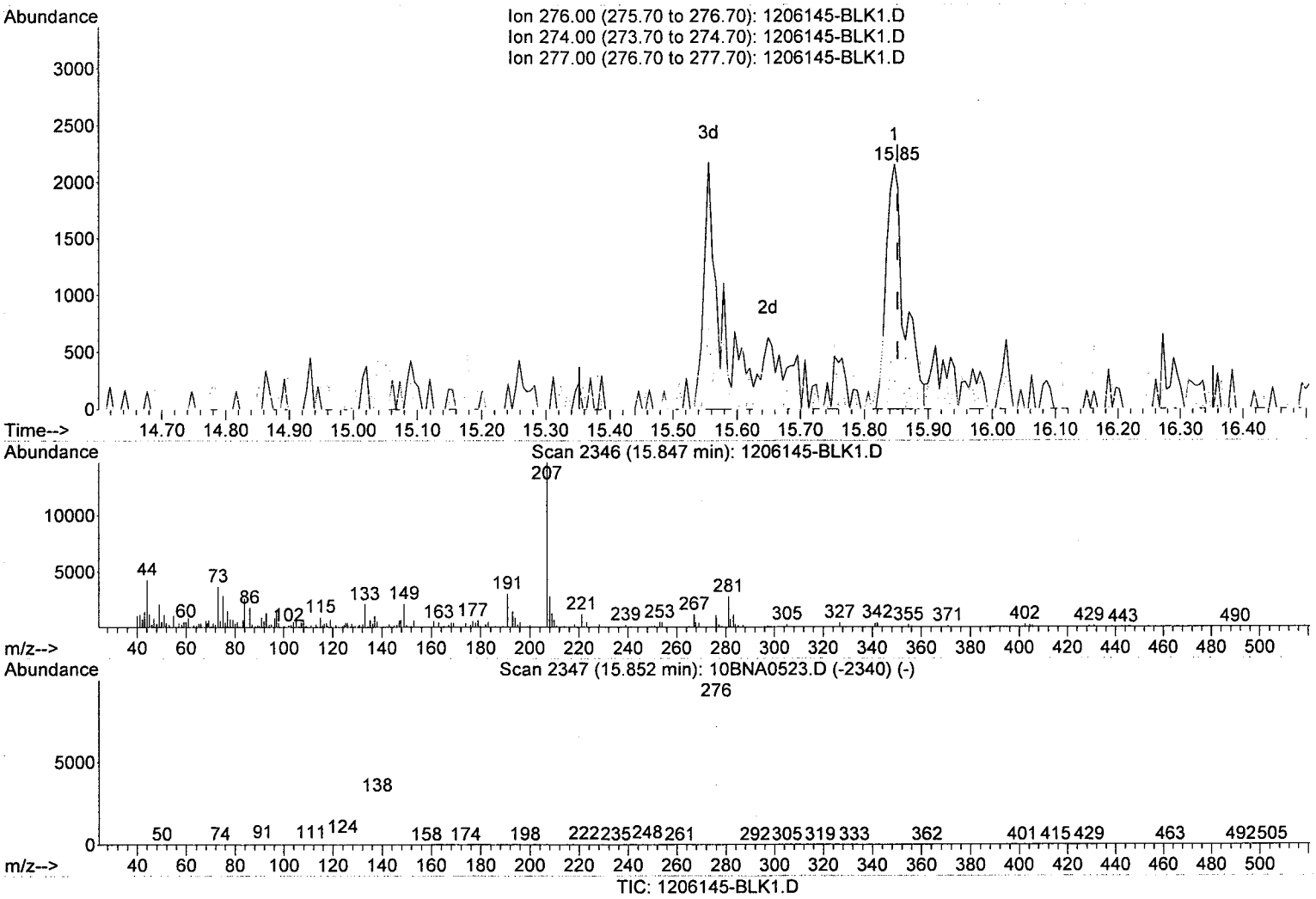
Ion	Exp%	Act%
252.00	100	100
126.00	18.60	23.69#
253.00	22.10	27.71#
0.00	0.00	0.00

01040

Quantitation Report (Qedit)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BLK1.D
Acq On : 23 May 2012 12:21
Operator : DMC
Sample : 1206145-BLK1
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 12:39:23 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



TIC: 1206145-BLK1.D

(96) Benzo(g,h,i)perylene

15.85min (-0.005) 0.02ug/l

response 4280

Ion	Exp%	Act%
276.00	100	100
274.00	21.30	0.00#
277.00	24.20	38.86#
0.00	0.00	0.00

01041

METHOD BLANK DATA SHEET
USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050712

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1206587-BLK1 File ID: 1206587-blk1.D

Prepared: 05/24/12 08:11 Analyzed: 05/30/12 12:59

Preparation: 3510C Liquid-Liquid Ext Initial/Final: 1000 mL / 1 mL

QC Batch: 1206587 Sequence: 2E31014 Calibration: 2E31003 Instrument: 308

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
83-32-9	Acenaphthene	5.0	ug/L	0.050	5.0	U
208-96-8	Acenaphthylene	5.0	ug/L	0.050	5.0	U
120-12-7	Anthracene	0.040	ug/L	0.018	5.0	J
56-55-3	Benzo(a)anthracene	0.070	ug/L	0.026	1.0	J
50-32-8	Benzo(a)pyrene	1.0	ug/L	0.040	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	ug/L	0.071	1.0	U
191-24-2	Benzo(g,h,i)perylene	1.0	ug/L	0.026	1.0	U
207-08-9	Benzo(k)fluoranthene	0.040	ug/L	0.031	1.0	J
218-01-9	Chrysene	0.060	ug/L	0.031	1.0	J
53-70-3	Dibenz(a,h)anthracene	2.0	ug/L	0.034	2.0	U
206-44-0	Fluoranthene	0.060	ug/L	0.017	1.0	J
86-73-7	Fluorene	5.0	ug/L	0.022	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	ug/L	0.024	2.0	J
91-57-6	2-Methylnaphthalene	5.0	ug/L	0.024	5.0	U
91-20-3	Naphthalene	5.0	ug/L	0.050	5.0	U
85-01-8	Phenanthrene	0.060	ug/L	0.024	2.0	J
129-00-0	Pyrene	0.070	ug/L	0.025	5.0	J

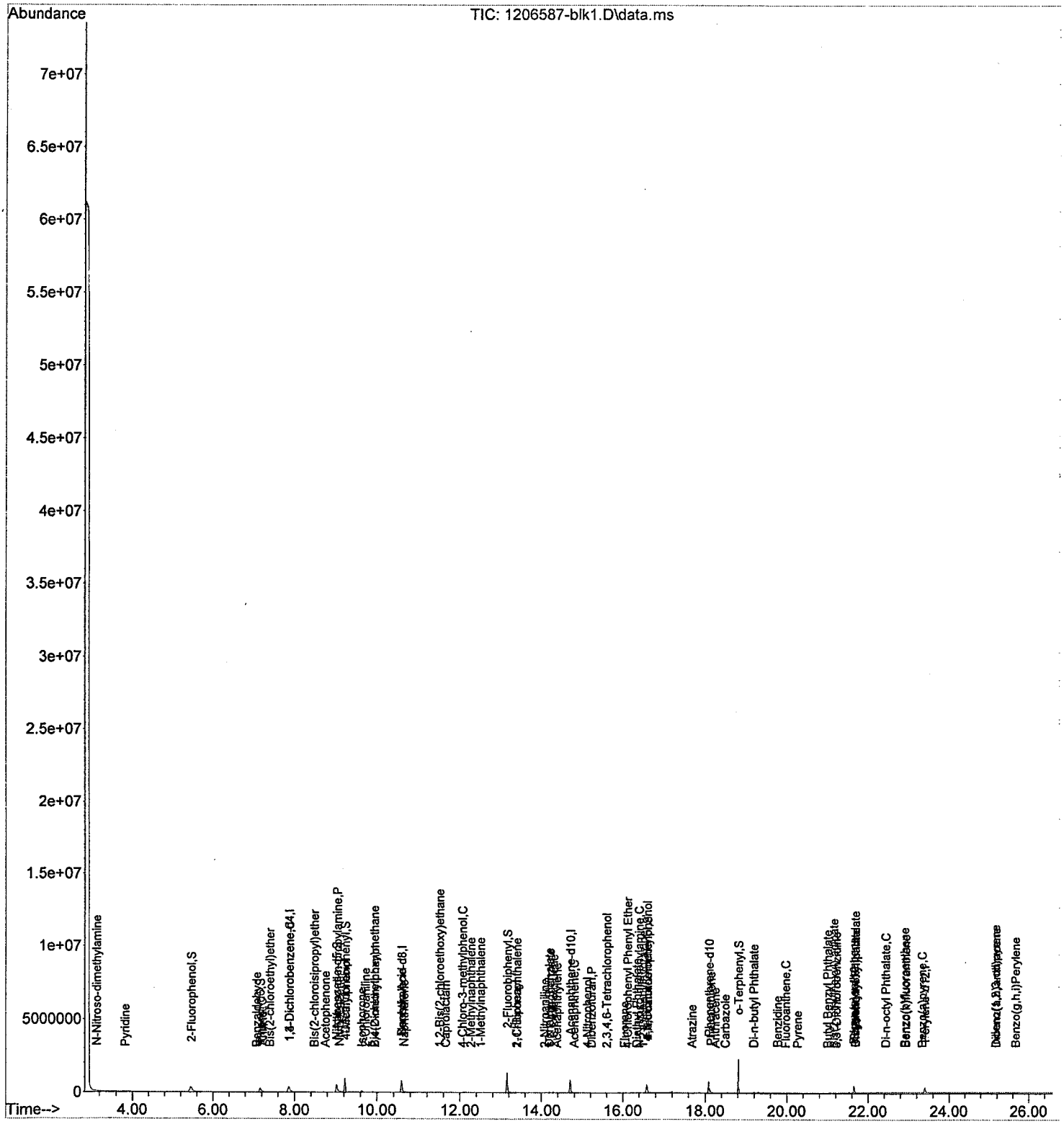
System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Nitrobenzene-d5	10.0	9.23	92	31 - 123	
2-Fluorobiphenyl	10.0	10.1	101	25 - 113	
o-Terphenyl	10.1	10.9	108	42 - 125	

Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
Naphthalene-d8	804097	10.596	1026583	10.538	
Acenaphthene-d10	381764	14.705	540093	14.648	
Phenanthrene-d10	505040	18.091	883336	18.04	
Chrysene-d12	244144	21.658	409265	21.619	
Perylene-d12	239407	23.401	367166	23.35	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.868	152	202487	5.00	ng/uL	# 0.00
21) Naphthalene-d8	10.596	136	804097	5.00	ng/uL	0.00
43) Acenaphthene-d10	14.705	164	381764	5.00	ng/uL	0.00
67) Phenanthrene-d10	18.091	188	505040	5.00	ng/uL	0.00
82) Chrysene-d12	21.658	240	244144	5.00	ng/uL	# 0.00
93) Perylene-d12	23.401	264	239407	5.00	ng/uL	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.455	112	525708	10.53	ng/uL	-0.02
7) Phenol-d6	7.163	99	379393	6.55	ng/uL	-0.01
22) Nitrobenzene-d5	9.022	82	509500	9.23	ng/uL	-0.01
24) Decafluorobiphenyl	9.226	334	345493	8.69	ng/uL	0.00
48) 2-Fluorobiphenyl	13.166	172	892410	10.09	ng/uL	0.00
71) 2,4,6-Tribromophenol	16.599	330	114467	17.76	ng/uL	0.00
79) o-Terphenyl	18.820	230	560222	10.91	ng/uL	0.00
Target Compounds						Qvalue
2) N-Nitroso-dimethylamine	3.123	74	3824	0.13	ng/uL#	41
3) Pyridine	3.817	79	640	0.01	ng/uL#	52
5) Aniline	7.227	93	120	0.00	ng/uL#	1
6) Benzaldehyde	7.069	105	262	0.01	ng/uL#	21
8) Phenol	7.203	94	1874	0.03	ng/uL#	1
9) Bis(2-chloroethyl)ether	7.396	93	228	0.00	ng/uL	100
10) 2-Chlorophenol	0.000		0	N.D.		
11) 1,3-Dichlorobenzene	7.874	146	54	0.00	ng/uL#	1
12) 1,4-Dichlorobenzene	7.874	146	54	0.00	ng/uL#	1
13) 1,2-Dichlorobenzene	0.000		0	N.D.		
14) Bis(2-chloroisipropyl)...	8.480	45	134	0.00	ng/uL#	51
15) Benzyl Alcohol	0.000		0	N.D.		
16) 2-Methylphenol	0.000		0	N.D.		
17) Acetophenone	8.748	105	359	0.01	ng/uL#	57
18) Hexachloroethane	0.000		0	N.D.		
19) 4-Methylphenol	9.238	107	752	0.02	ng/uL#	62
20) N-Nitroso-di-n-propyla...	9.028	70	79827	2.19	ng/uL#	2
23) Nitrobenzene	9.080	77	1066	0.02	ng/uL#	30
25) Isophorone	9.622	82	393	0.00	ng/uL#	58
26) 2-Chloroaniline	9.716	127	69	0.00	ng/uL#	8
27) 2-Nitrophenol	0.000		0	N.D.		
28) 2,4-Dimethylphenol	9.949	107	69	0.00	ng/uL#	5
29) Bis(2-chlorethoxy)methane	9.937	93	123	0.00	ng/uL	89
30) 2,4-Dichlorophenol	0.000		0	N.D.		
31) Benzoic Acid	10.590	105	1540	1.34	ng/uL#	1
32) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
33) Naphthalene	10.642	128	1499	0.01	ng/uL#	1
34) 4-Chloroaniline	0.000		0	N.D.		
35) 2,6-Dichlorophenol	0.000		0	N.D.		
36) Hexachlorobutadiene	0.000		0	N.D.		
37) Caprolactam	11.639	55	582	0.74	ng/uL#	21
38) 1,2-Bis(2-chloroethoxy...	11.499	63	125	0.00	ng/uL#	100
39) 4-Chloro-3-methylphenol	12.059	107	114	0.00	ng/uL#	25
40) 2-Methylnaphthalene	12.263	142	177	0.00	ng/uL#	60
41) 1-Methylnaphthalene	12.496	142	524	0.01	ng/uL#	59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.215	168	58	0.70	ng/uL	100
44) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
49) 2-Chloronaphthalene	13.393	162	150	0.00	ng/uL#	35
50) 1,1'-Biphenyl	13.388	154	962	0.01	ng/uL#	68
51) 2-Nitroaniline	14.075	138	133	0.63	ng/uL#	58
52) Acenaphthylene	14.378	152	383	0.00	ng/uL#	55
53) 2,6-Dinitrotoluene	14.297	165	694	0.40	ng/uL#	27
54) Dimethyl Phthalate	14.192	163	15728	0.22	ng/uL	95
55) 3-Nitroaniline	0.000		0	N.D.		
56) Acenaphthene	14.786	153	602	0.01	ng/uL#	81
57) 2,4-Dinitrophenol	0.000		0	N.D.		
58) Dibenzofuran	15.218	168	225	0.00	ng/uL#	37
59) 4-Nitrophenol	15.113	65	292	1.33	ng/uL#	6
60) 2,4-Dinitrotoluene	0.000		0	N.D.		
61) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
62) 2,3,4,6-Tetrachlorophenol	15.591	232	54	0.50	ng/uL#	1
63) Fluorene	16.028	166	585	0.01	ng/uL#	19
64) Diethyl Phthalate	16.337	149	640	0.21	ng/uL	97
65) 4-Chlorophenyl Phenyl ...	16.110	204	214	0.01	ng/uL#	53
66) 4-Nitroaniline	16.605	138	170	0.02	ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.593	198	361	1.12	ng/uL#	1
69) N-Nitroso-diphenylamine	16.395	169	678	0.01	ng/uL#	33
70) 1,2-Diphenylhydrazine	16.494	182	459	0.03	ng/uL#	36
72) 4-Bromophenyl Phenyl E...	0.000		0	N.D.		
73) Hexachlorobenzene	0.000		0	N.D.		
74) Atrazine	17.677	200	249	0.02	ng/uL#	58
75) Pentachlorophenol	0.000		0	N.D.		
76) Phenanthrene	18.138	178	5396	0.06	ng/uL#	93
77) Anthracene	18.243	178	3022	0.04	ng/uL#	93
78) Carbazole	18.488	167	54	0.13	ng/uL#	1
80) Di-n-butyl Phthalate	19.187	149	13501	0.15	ng/uL	98
81) Fluoroanthene	19.968	202	4551	0.06	ng/uL#	70
83) Benzidine	19.770	184	259	0.13	ng/uL#	1
84) Pyrene	20.260	202	5092	0.07	ng/uL#	78
85) Butyl Benzyl Phthalate	20.994	149	422	0.29	ng/uL	86
86) Bis(2-ethylhexyl) adipate	21.151	129	1775	0.26	ng/uL#	100
87) Benzo(a)anthracene	21.647	228	3756	0.07	ng/uL#	51
88) 3,3'-Dichlorobenzidine	21.210	252	81	0.23	ng/uL	98
89) Chrysene	21.688	228	3161	0.06	ng/uL#	54
90) Bis(2-ethylhexyl)phtha...	21.682	149	8836	0.75	ng/uL	99
91) Dicyclohexyl Phthalate	21.682	149	8906	0.21	ng/uL#	100
92) Di-n-octyl Phthalate	22.434	149	883	0.30	ng/uL	95
94) Benzo(b)fluoroanthene	22.900	252	2179	0.05	ng/uL#	68
95) Benzo(k)fluoranthene	22.929	252	1950	0.04	ng/uL#	58
96) Benzo(a)pyrene	23.325	252	1739	0.04	ng/uL#	85
97) Indeno(1,2,3-cd)pyrene	25.161	276	1496	0.04	ng/uL#	86
98) Dibenz(a,h)anthracene	25.173	278	165	0.00	ng/uL#	38
99) Benzo(g,h,i)Perylene	25.663	276	400	0.01	ng/uL#	50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

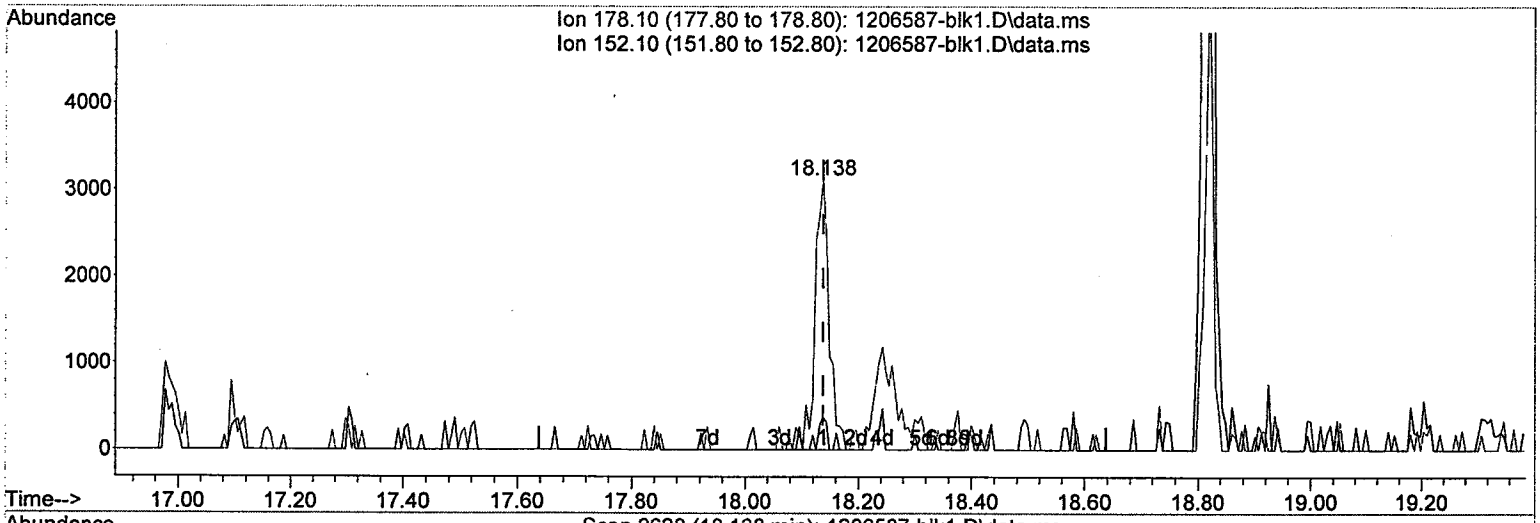
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

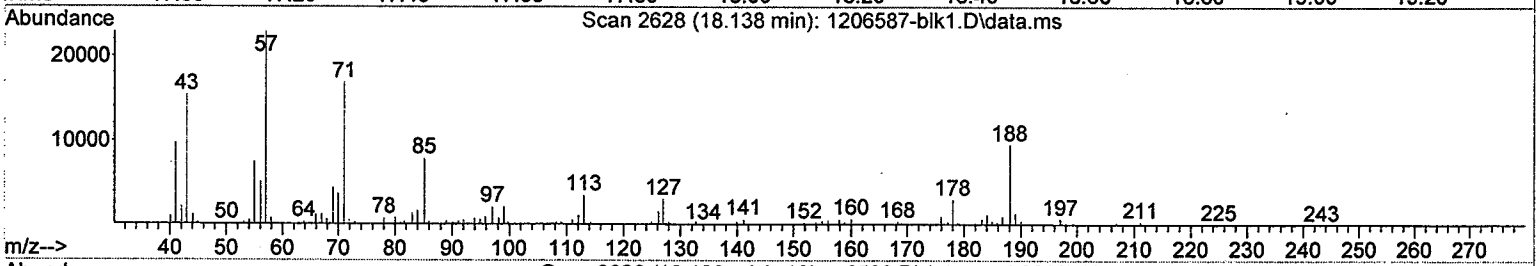
(#) = qualifier out of range (m) = manual integration (+) = signals summed

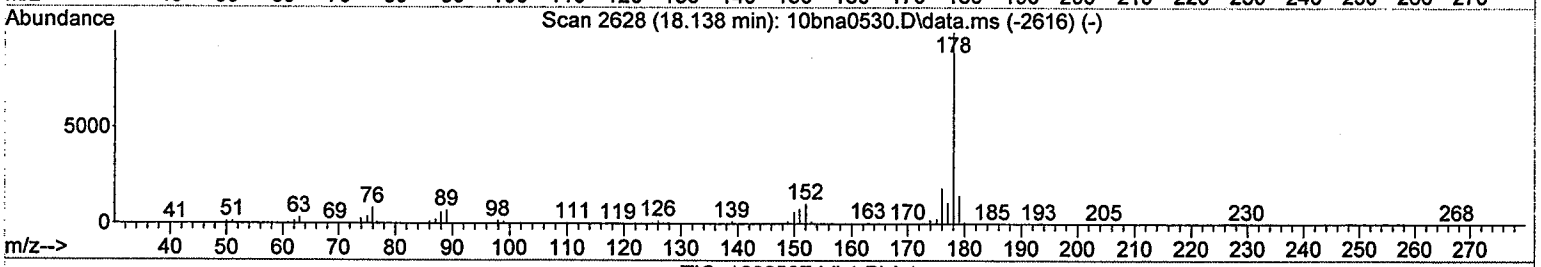
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration







TIC: 1206587-blk1.D\data.ms

(76) Phenanthrene

18.138min (+0.000) 0.06 ng/uL

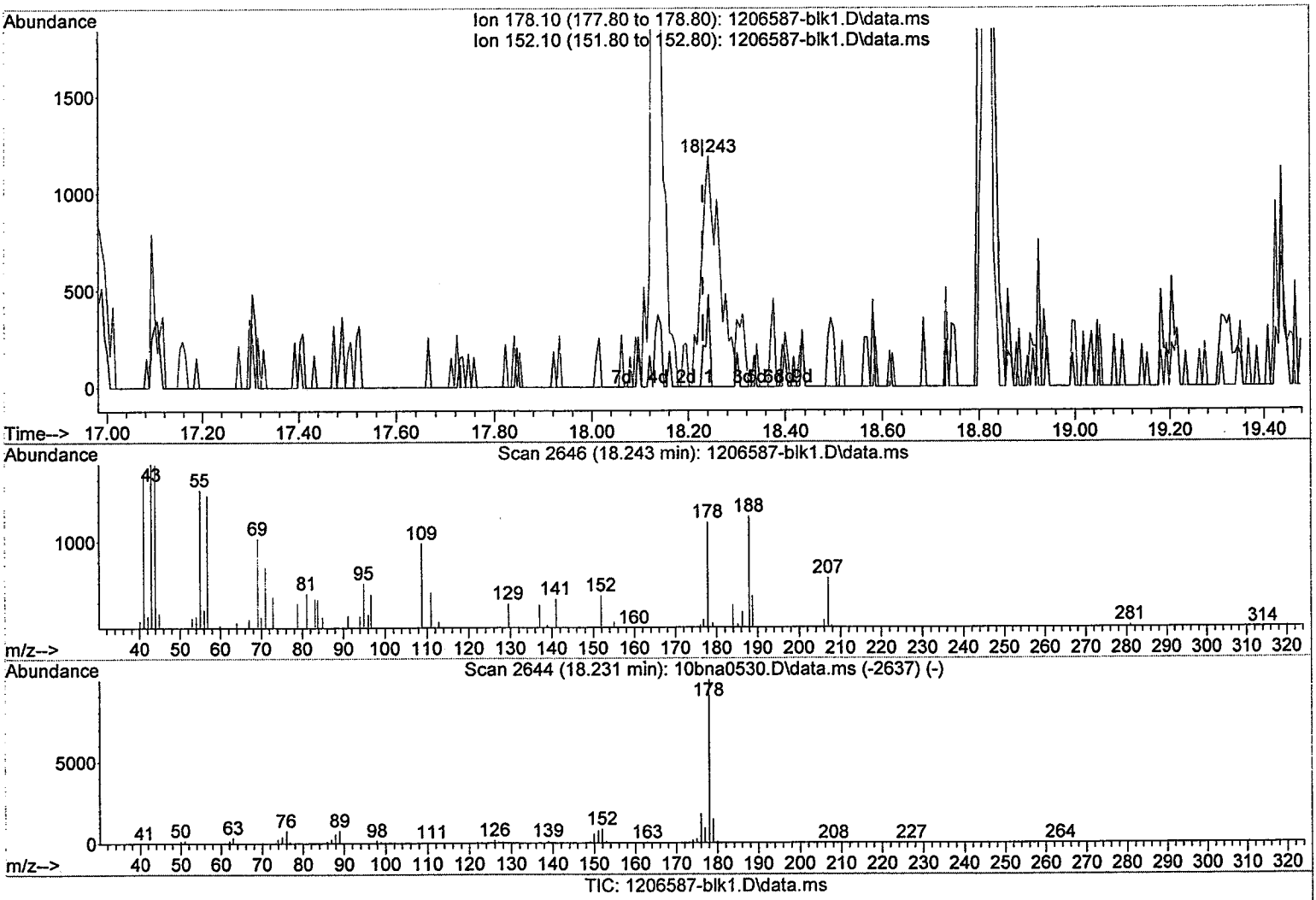
response 5396

Ion	Exp%	Act%
178.10	100	100
152.10	10.10	7.34#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



(77) Anthracene

18.243min (+0.012) 0.04 ng/uL

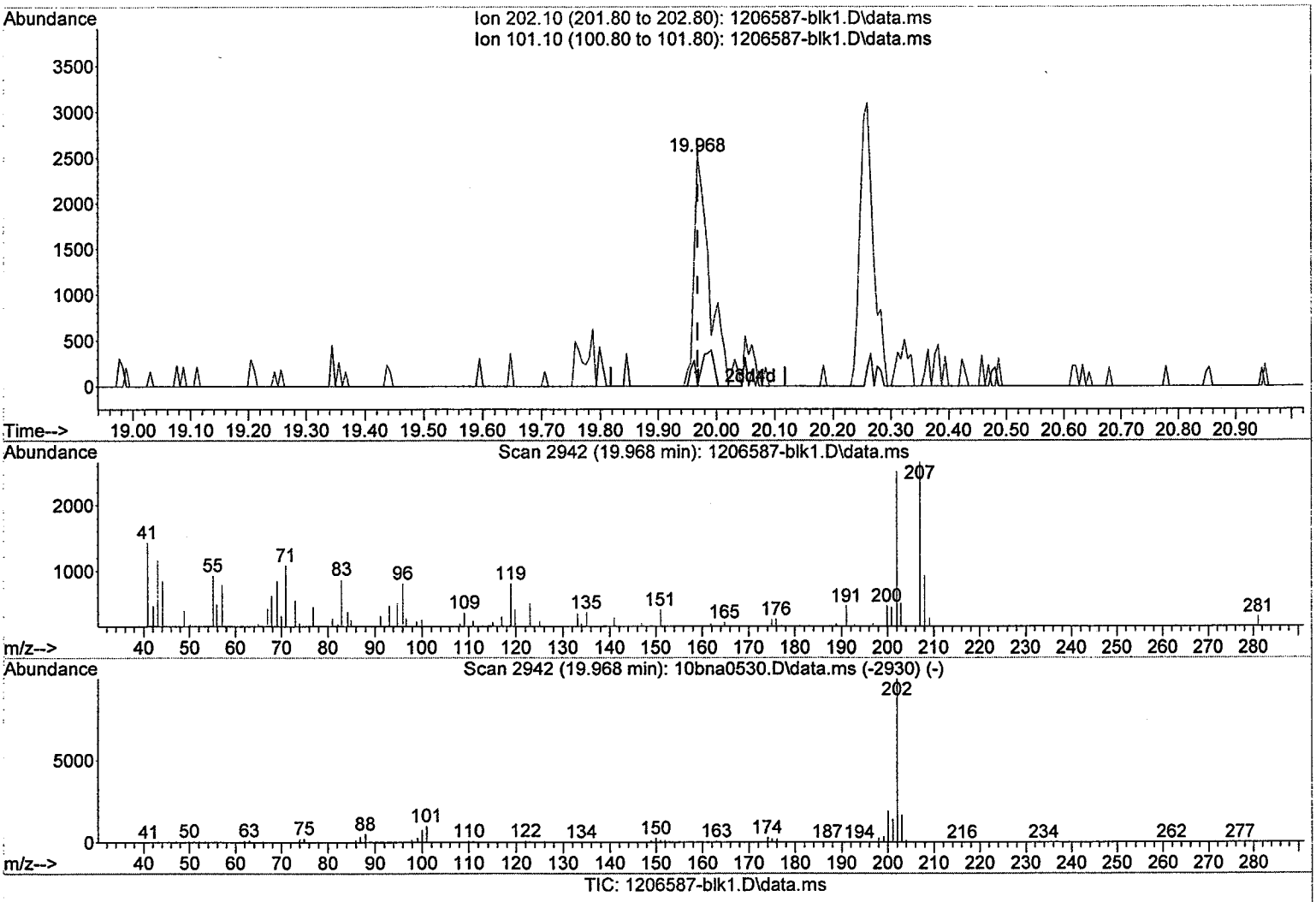
response 3022

Ion	Exp%	Act%
178.10	100	100
152.10	7.90	10.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1206587-blk1.D\data.ms

(81) Fluoroanthene (C)

19.968min (+0.000) 0.06 ng/uL

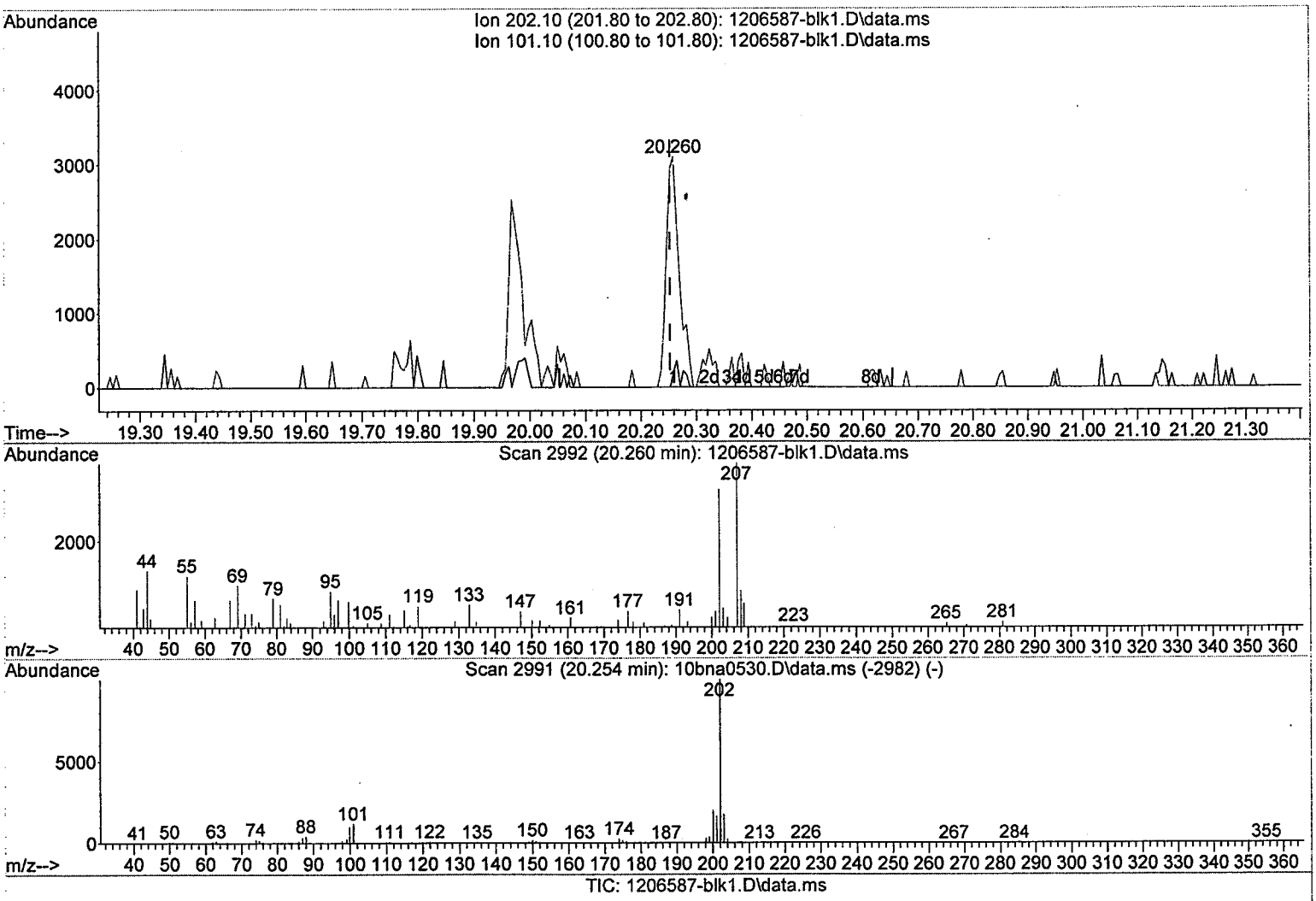
response 4551

Ion	Exp%	Act%
202.10	100	100
101.10	16.20	3.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1206587-blk1.D\data.ms

(84) Pyrene

20.260min (+0.006) 0.07 ng/uL

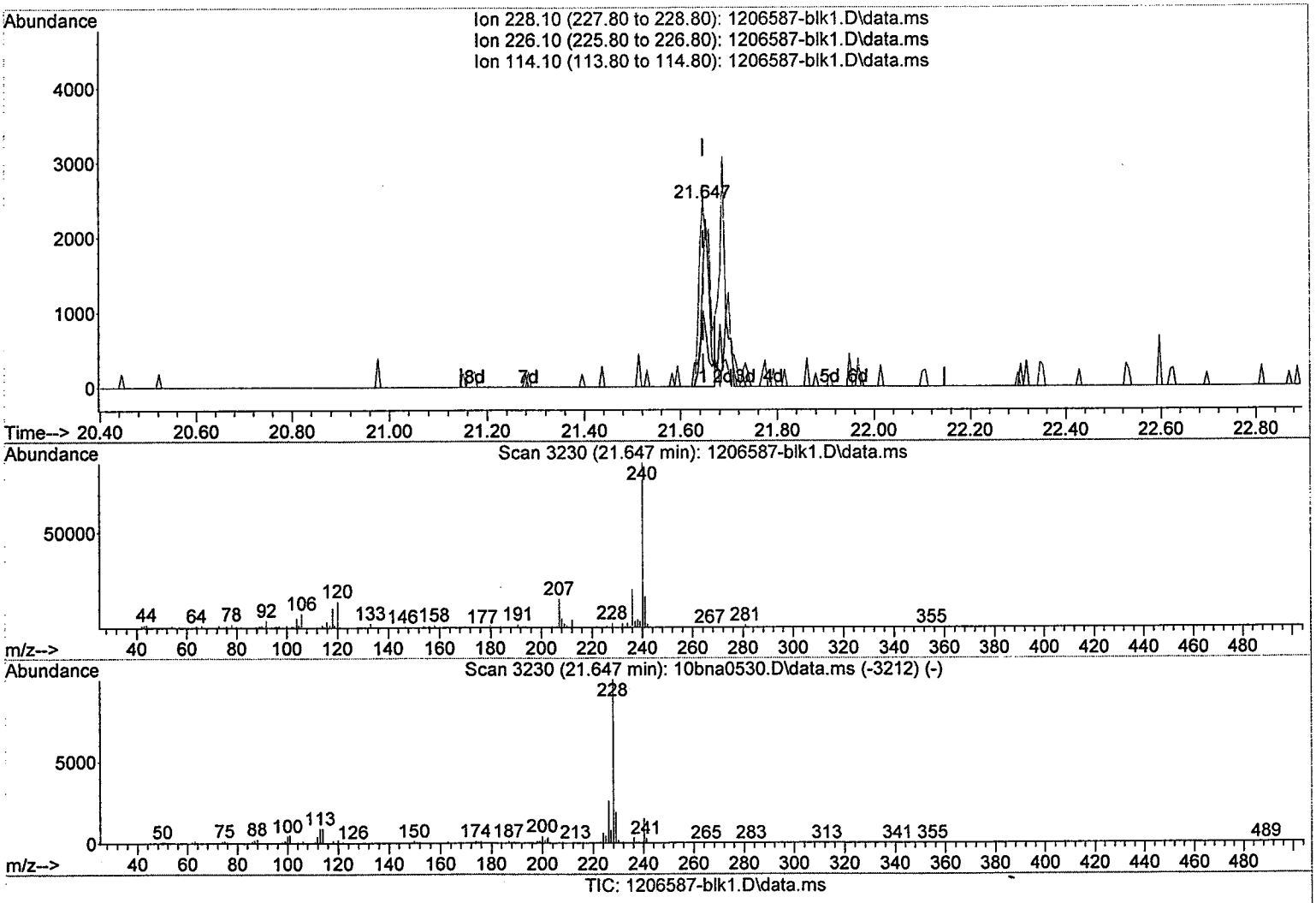
response 5092

Ion	Exp%	Act%
202.10	100	100
101.10	16.00	6.50#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1206587-blk1.D\data.ms

(87) Benzo(a)anthracene

21.647min (+0.000) 0.07 ng/uL

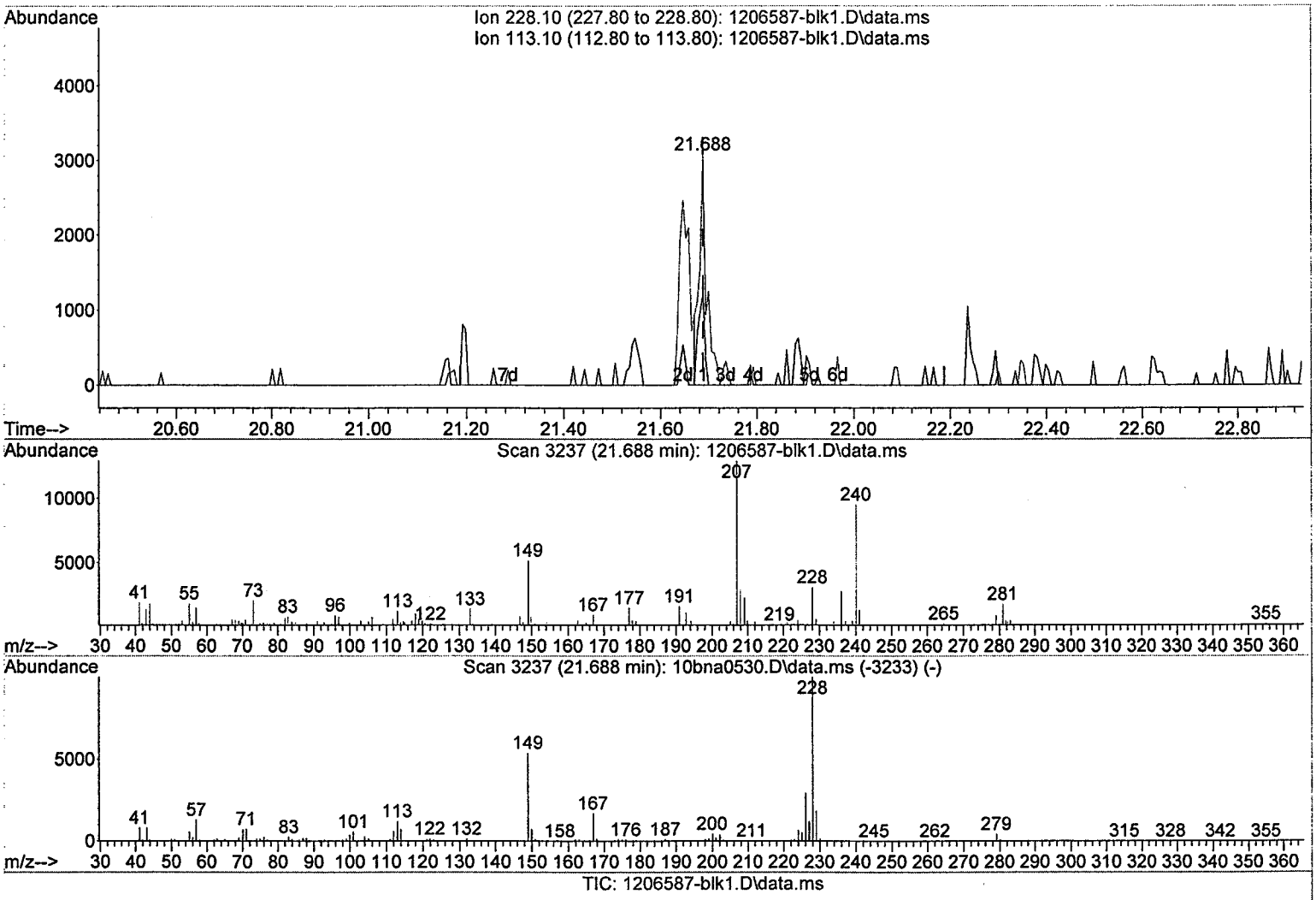
response 3756

Ion	Exp%	Act%
228.10	100	100
226.10	25.90	27.85
114.10	13.30	68.42#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1206587-blk1.D\data.ms

(89) Chrysene

21.688min (+0.000) 0.06 ng/uL

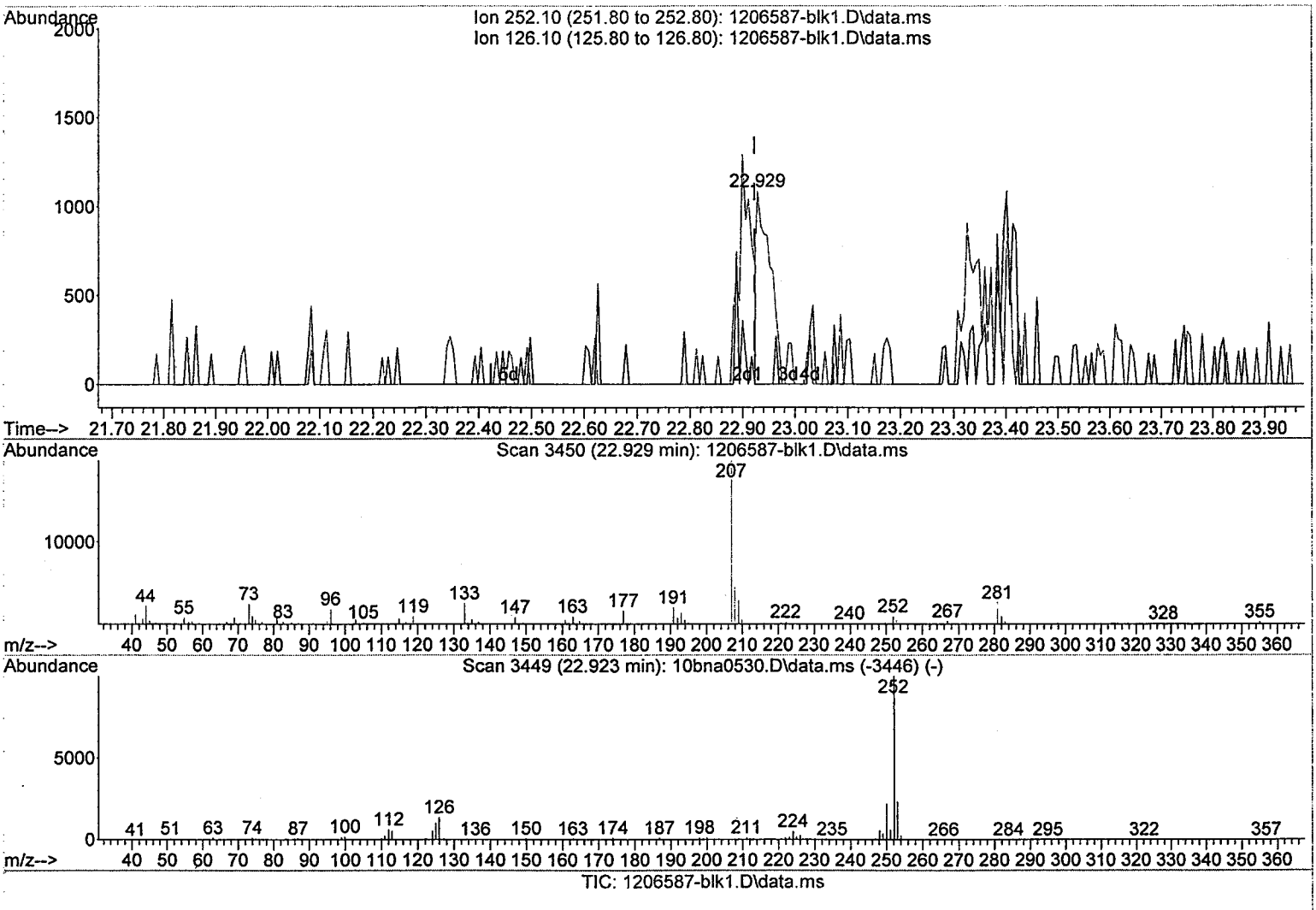
response 3161

Ion	Exp%	Act%
228.10	100	100
113.10	16.00	35.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



TIC: 1206587-blk1.D\data.ms

(95) Benzo(k)fluoranthene

22.929min (+0.006) 0.04 ng/uL

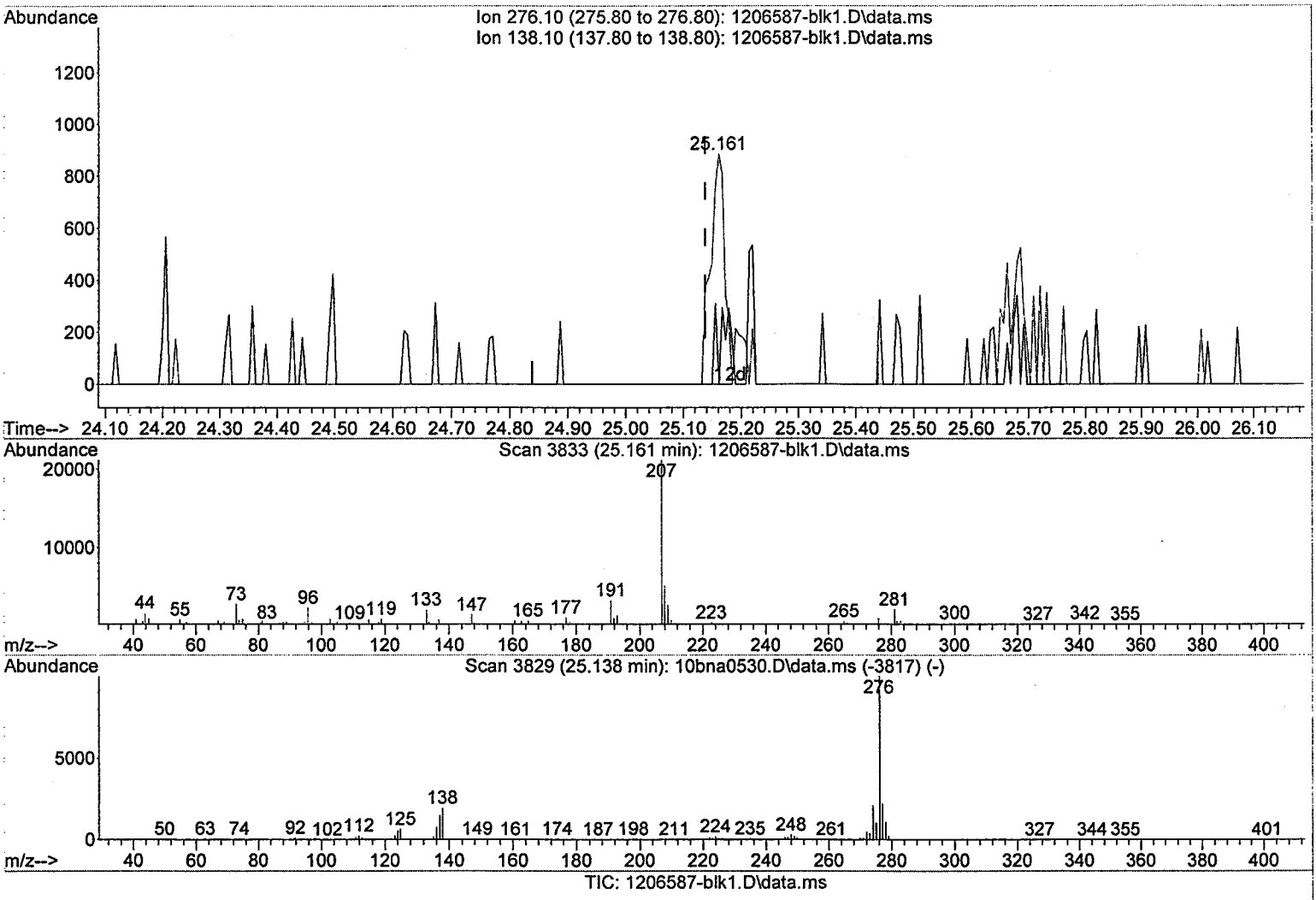
response 1950

Ion	Exp%	Act%
252.10	100	100
126.10	18.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-blk1.D
Acq On : 30 May 2012 12:59
Operator : JLB
Sample : 1206587-blk1 Inst : 308
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 07:38:04 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



(97) Indeno(1,2,3-cd)pyrene

25.161min (+0.023) 0.04 ng/uL

response 1496

Ion	Exp%	Act%
276.10	100	100
138.10	28.90	21.39#
0.00	0.00	0.00
0.00	0.00	0.00

LCS / LCS DUPLICATE RECOVERY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

SDG: KNM050712

Project: KNM

Laboratory ID: 1206145-BS1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 1000 mL / 1 mL

QC Batch: 1206145

Sequence: 2E23055

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Acenaphthene	10.0	6.61	66	53 - 126	ug/L
Naphthalene	10.1	6.84	68	50 - 127	ug/L
Pyrene	10.0	7.56	76	60 - 134	ug/L

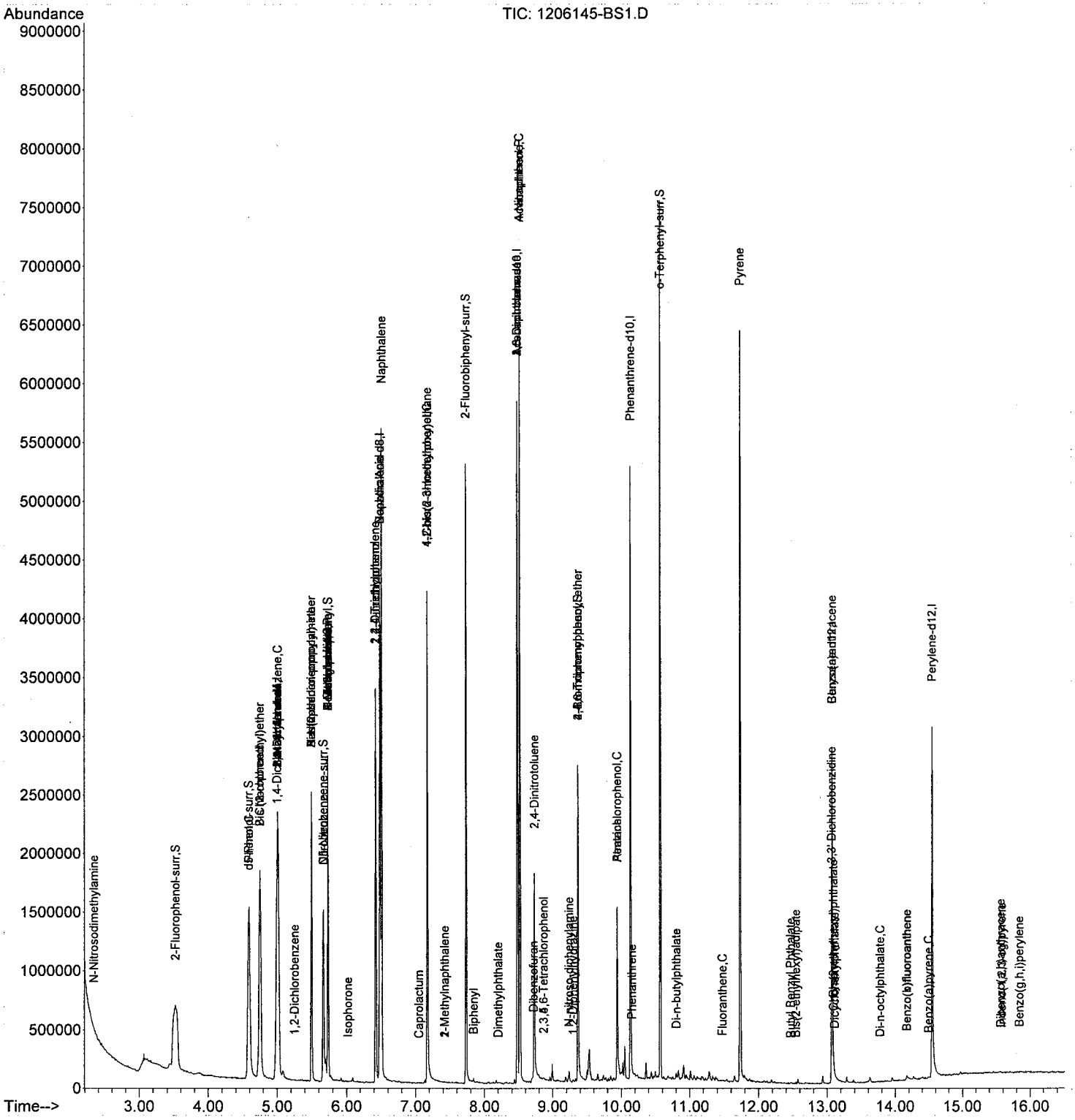
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BS1.D
Acq On : 23 May 2012 12:46
Operator : DMC
Sample : 1206145-BS1
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 23 13:15:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



01056

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BS1.D
Acq On : 23 May 2012 12:46
Operator : DMC
Sample : 1206145-BS1
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 23 13:15:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	4.99	152	473331	5.00	ug/l	0.00 130.67%
21) Naphthalene-d8	6.48	136	2111617	5.00	ug/l	0.00 134.39%
42) Acenaphthene-d10	8.48	164	1225883	5.00	ug/l	0.00 136.17%
65) Phenanthrene-d10	10.13	188	1947280	5.00	ug/l	0.00 134.13%
79) Chrysene-d12	13.07	240	1177426	5.00	ug/l	0.00 132.46%
90) Perylene-d12	14.55	264	1313299	5.00	ug/l	0.00 124.85%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.52	112	928438	8.35	ug/l	0.00
5) d5-Phenol-surr	4.58	99	846238	6.03	ug/l	-0.01
19) Decafluorobiphenyl	5.73	334	658229	6.42	ug/l	0.00
22) D5-Nitrobenzene-surr	5.67	128	360658	6.09	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.73	172	1788928	6.77	ug/l	0.00
64) 2,4,6-Tribromophenol	9.37	330	319769	11.33	ug/l	0.00
76) o-Terphenyl-surr	10.57	230	1361747	7.57	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.34	74	2160	0.03	ug/l #	1
3) Pyridine	0.00	79	0	N.D.		
6) Phenol	4.60	94	722297	4.82	ug/l #	52
7) Bis (2-chloroethyl)ether	4.75	93	20706	0.15	ug/l #	1
8) 2-Chlorophenol	4.75	128	1267954	9.75	ug/l #	88
9) 1,3-Dichlorobenzene	5.01	146	930156	6.17	ug/l	91
10) 1,4-Dichlorobenzene	5.01	146	930156	6.27	ug/l #	90
11) Benzaldehyde	0.00	105	0	N.D.		
12) Benzyl Alcohol	5.01	108	7456	0.10	ug/l #	69
13) 1,2-Dichlorobenzene	5.26	146	1418	0.01	ug/l #	1
14) 2-Methylphenol	5.01	108	7456	0.06	ug/l #	1
15) Bis-(2-chloroisopropyl)-et	5.49	45	4555	0.03	ug/l #	1
16) Acetophenone	5.49	105	1688	0.01	ug/l #	48
17) 4-Methylphenol	5.73	107	1563	0.01	ug/l #	14
18) N-Nitrosodi-n-propylamine	5.49	70	574264	7.29	ug/l #	88
20) Hexachloroethane	5.73	117	48090	0.92	ug/l #	20
23) Nitrobenzene	5.67	77	3541	0.03	ug/l #	1
24) Isophorone	6.02	82	3557	0.02	ug/l #	64
25) 2-Chloroaniline	5.73	127	6706	0.04	ug/l #	100
26) 2-Nitrophenol	5.73	139	1182	0.02	ug/l #	11
27) 2,4-Dimethylphenol	6.42	107	9438	0.08	ug/l #	45
28) Benzoic Acid	6.48	105	3257	0.92	ug/l #	1
29) Bis(2-chloroethoxy)metha	6.42	93	1414	N.D.		
30) 2,4-Dichlorophenol	0.00	162	0	N.D.		
31) 1,2,4-Trichlorobenzene	6.43	180	774092	6.04	ug/l	98
32) Naphthalene	6.51	128	2615661	6.84	ug/l	96
33) 4-Chloroaniline	6.64	127	2005	Below Cal	#	87
34) 2,6-Dichlorophenol	0.00	162	0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BS1.D
Acq On : 23 May 2012 12:46
Operator : DMC
Sample : 1206145-BS1
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 23 13:15:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	0.00	225	0	N.D.	
36) Caprolactum	7.05	55	1064	0.03 ug/l #	20
37) 1,2-bis(2-chloroethoxy)eth	7.17	63	62256	0.57 ug/l #	27
38) 4-Chloro-3-methylphenol	7.17	107	921856	9.60 ug/l	87
39) 2-Methylnaphthalene	7.42	142	4041	0.02 ug/l #	51
40) 1-Methylnaphthalene	7.42	142	4041	0.02 ug/l #	87
41) 1,3-Dinitrobenzene	8.48	168	3954	0.66 ug/l	100
43) Hexachlorocyclopentadien	0.00	237	0	N.D.	
44) 1,2,4,5-Tetrachlorobenze	0.00	216	0	N.D.	
45) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
46) 2,4,5-Trichlorophenol	0.00	198	0	N.D.	
48) 2-Chloronaphthalene	0.00	162	0	N.D.	
49) Biphenyl	7.84	154	5749	0.02 ug/l #	42
50) 2-Nitroaniline	0.00	138	0	N.D.	
51) Dimethylphthalate	8.21	163	3402	0.01 ug/l #	58
52) 2,6-Dinitrotoluene	8.48	165	162100	2.72 ug/l #	23
53) Acenaphthylene	8.32	152	1475	N.D.	
54) Acenaphthene	8.52	154	1513504	6.61 ug/l	98
55) 4-Nitrophenol	8.51	65	1587	0.66 ug/l #	1
56) 2,4-Dinitrotoluene	8.73	165	385789	5.56 ug/l #	63
57) 2,4-Dinitrophenol	0.00	184	0	N.D.	
58) Dibenzofuran	8.71	168	7845	0.02 ug/l #	1
59) 2,3,5,6-Tetrachlorophenol	8.87	232	3039	0.05 ug/l #	85
60) 2,3,4,6-Tetrachlorophenol	8.87	232	3039	0.05 ug/l #	85
61) Diethylphthalate	8.99	149	20976	Below Cal	94
62) 4-Chlorophenyl phenyl et	9.19	204	1007	N.D.	
63) Fluorene	9.09	166	1072	N.D.	
66) 4,6-Dinitro-2-methyl-phe	0.00	198	0	N.D.	
67) 1,2-Diphenylhydrazine	9.30	77	2320	0.01 ug/l #	1
68) N-nitroso-diphenylamine	9.24	169	3437	0.02 ug/l #	62
69) 4-Bromophenyl phenyl ether	9.37	248	22812	0.34 ug/l #	1
70) Hexachlorobenzene	0.00	284	0	N.D.	
71) Atrazine	9.94	200	31536	0.54 ug/l #	28
72) Pentachlorophenol	9.94	266	177315	4.38 ug/l	92
73) Phenanthrene	10.16	178	4906	0.01 ug/l #	64
74) Anthracene	10.21	178	1935	N.D.	
75) Carbazole	10.42	167	2920	Below Cal #	1
77) Di-n-butylphthalate	10.80	149	25876	0.07 ug/l	96
78) Fluoranthene	11.48	202	4092	0.01 ug/l #	59
80) Benzidine	0.00	184	0	N.D.	
81) Pyrene	11.73	202	2661414	7.56 ug/l	99
82) Butyl Benzyl Phthalate	12.46	149	2003	0.01 ug/l #	63
83) Bis(2-ethylhexyl)adipate	12.55	129	2301	0.02 ug/l #	79
84) Bis(2-ethylhexyl)phthalate	13.09	149	9117	0.05 ug/l #	81
85) Dicyclohexylphthalate	13.12	149	2646	0.01 ug/l #	46
86) 3,3' Dichlorobenzidine	13.06	252	2303	0.03 ug/l #	18
87) Benzo(a)anthracene	13.06	228	10149	0.04 ug/l #	19
88) Chrysene	13.10	228	9648	0.03 ug/l #	85
89) Di-n-octylphthalate	13.77	149	2399	0.64 ug/l #	100
91) Benzo(b)fluoroanthene	14.18	252	23446	0.09 ug/l #	83
92) Benzo(k)fluoroanthene	14.18	252	23446	0.08 ug/l #	73
93) Benzo(a)pyrene	14.50	252	7768	0.03 ug/l #	81

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BS1.D
Acq On : 23 May 2012 12:46
Operator : DMC
Sample : 1206145-BS1
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 23 13:15:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.58	276	2878	0.01 ug/l #	85
95) Dibenzo(a,h)anthracene	15.57	278	2457	0.01 ug/l #	73
96) Benzo(g,h,i)perylene	15.84	276	3300	0.01 ug/l #	53

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

LCS / LCS DUPLICATE RECOVERY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM050712
Project: KNM
Laboratory ID: 1206145-BSD1
Preparation: 3510C Liquid-Liquid Extraction
Initial/Final: 1000 mL / 1 mL

QC Batch: 1206145
Sequence: 2E23055

Analyte	Spike Added ug/L	LCSD Conc.	LCSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Acenaphthene	10.0	6.43	64	3	20	53 - 126	ug/L
Naphthalene	10.1	6.58	65	4	20	50 - 127	ug/L
Pyrene	10.0	7.66	77	1	20	60 - 134	ug/L

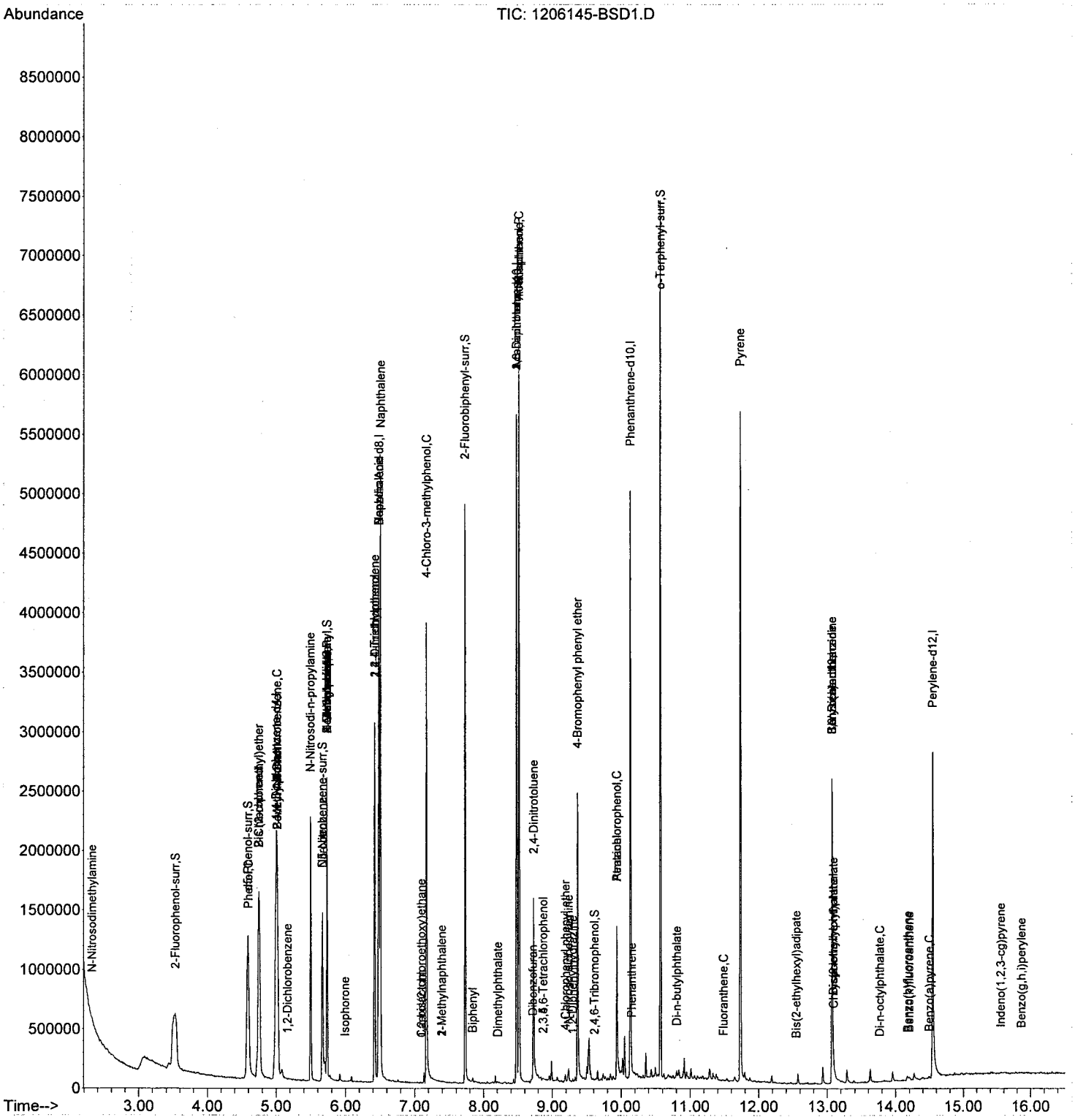
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BSD1.D
Acq On : 23 May 2012 13:12
Operator : DMC
Sample : 1206145-BSD1
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 23 13:30:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration



01061

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BSD1.D
Acq On : 23 May 2012 13:12
Operator : DMC
Sample : 1206145-BSD1
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 23 13:30:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) 1,4-Dichlorbenzene-d4	4.99	152	468117	5.00	ug/l	0.00 129.23%
21) Naphthalene-d8	6.48	136	2044539	5.00	ug/l	0.00 130.12%
42) Acenaphthene-d10	8.48	164	1187331	5.00	ug/l	0.00 131.88%
65) Phenanthrene-d10	10.13	188	1865398	5.00	ug/l	0.00 128.49%
79) Chrysene-d12	13.07	240	1086003	5.00	ug/l	0.00 122.18%
90) Perylene-d12	14.55	264	1214046	5.00	ug/l	0.00 115.42%
System Monitoring Compounds						
4) 2-Fluorophenol-surr	3.53	112	762841	6.94	ug/l	0.00
5) d5-Phenol-surr	4.59	99	674098	4.86	ug/l	0.00
19) Decafluorobiphenyl	5.73	334	606662	5.98	ug/l	0.00
22) D5-Nitrobenzene-surr	5.67	128	319489	5.57	ug/l	0.00
47) 2-Fluorobiphenyl-surr	7.74	172	1674118	6.54	ug/l	0.00
64) 2,4,6-Tribromophenol	9.60	330	1615	0.06	ug/l	0.23
76) o-Terphenyl-surr	10.57	230	1274392	7.39	ug/l	0.00
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	2.32	74	3497	0.05	ug/l #	1
3) Pyridine	2.29	79	1105	N.D.		
6) Phenol	4.60	94	565941	3.82	ug/l #	53
7) Bis (2-chloroethyl)ether	4.75	93	18050	0.13	ug/l #	1
8) 2-Chlorophenol	4.75	128	1141425	8.88	ug/l #	87
9) 1,3-Dichlorobenzene	5.02	146	820853	5.51	ug/l	92
10) 1,4-Dichlorobenzene	5.02	146	820853	5.60	ug/l	91
11) Benzaldehyde	0.00	105	0	N.D.		
12) Benzyl Alcohol	5.02	108	6516	0.09	ug/l #	62
13) 1,2-Dichlorobenzene	5.17	146	9682	0.07	ug/l #	55
14) 2-Methylphenol	5.02	108	6516	0.06	ug/l #	1
15) Bis-(2-chloroisopropyl)-	5.24	45	1497	N.D.		
16) Acetophenone	5.49	105	1574	N.D.		
17) 4-Methylphenol	5.74	107	1476	0.01	ug/l #	77
18) N-Nitrosodi-n-propylamine	5.49	70	541641	6.95	ug/l #	87
20) Hexachloroethane	5.73	117	49370	0.96	ug/l #	20
23) Nitrobenzene	5.66	77	1592	0.01	ug/l #	1
24) Isophorone	5.99	82	10265	0.05	ug/l #	76
25) 2-Chloroaniline	5.73	127	7237	0.05	ug/l #	100
26) 2-Nitrophenol	5.73	139	1512	0.02	ug/l #	57
27) 2,4-Dimethylphenol	6.43	107	7615	0.07	ug/l #	52
28) Benzoic Acid	6.48	105	2874	0.92	ug/l #	1
29) Bis(2-chloroethoxy)metha	6.43	93	1331	N.D.		
30) 2,4-Dichlorophenol	0.00	162	0	N.D.		
31) 1,2,4-Trichlorobenzene	6.43	180	689719	5.56	ug/l	98
32) Naphthalene	6.51	128	2435722	6.58	ug/l #	95
33) 4-Chloroaniline	6.72	127	1057	Below Cal	#	1
34) 2,6-Dichlorophenol	0.00	162	0	N.D.		

01062

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BSD1.D
Acq On : 23 May 2012 13:12
Operator : DMC
Sample : 1206145-BSD1
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 23 13:30:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
35) Hexachlorobutadiene	0.00	225	0	N.D.	
36) Caprolactum	7.09	55	1729	0.04 ug/l #	17
37) 1,2-bis(2-chloroethoxy)eth	7.09	63	1280	0.01 ug/l #	27
38) 4-Chloro-3-methylphenol	7.17	107	857266	9.22 ug/l	87
39) 2-Methylnaphthalene	7.39	142	2954	0.01 ug/l #	56
40) 1-Methylnaphthalene	7.39	142	2954	0.01 ug/l	99
41) 1,3-Dinitrobenzene	8.47	168	4086	0.67 ug/l	100
43) Hexachlorocyclopentadien	0.00	237	0	N.D.	
44) 1,2,4,5-Tetrachlorobenze	0.00	216	0	N.D.	
45) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
46) 2,4,5-Trichlorophenol	0.00	198	0	N.D.	
48) 2-Chloronaphthalene	0.00	162	0	N.D.	
49) Biphenyl	7.84	154	4984	0.02 ug/l #	78
50) 2-Nitroaniline	0.00	138	0	N.D.	
51) Dimethylphthalate	8.21	163	4178	0.02 ug/l #	71
52) 2,6-Dinitrotoluene	8.48	165	156942	2.72 ug/l #	23
53) Acenaphthylene	8.32	152	1504	N.D.	
54) Acenaphthene	8.52	154	1424913	6.43 ug/l	97
55) 4-Nitrophenol	8.52	65	5856	0.80 ug/l #	58
56) 2,4-Dinitrotoluene	8.73	165	335148	4.99 ug/l #	63
57) 2,4-Dinitrophenol	0.00	184	0	N.D.	
58) Dibenzofuran	8.71	168	7816	0.02 ug/l #	1
59) 2,3,5,6-Tetrachlorophenol	8.86	232	2362	0.04 ug/l #	46
60) 2,3,4,6-Tetrachlorophenol	8.86	232	2362	0.04 ug/l #	46
61) Diethylphthalate	8.99	149	23833	Below Cal	91
62) 4-Chlorophenyl phenyl ethe	9.19	204	1383	0.01 ug/l #	32
63) Fluorene	9.10	166	1172	N.D.	
66) 4,6-Dinitro-2-methyl-phe	0.00	198	0	N.D.	
67) 1,2-Diphenylhydrazine	9.30	77	2129	0.01 ug/l #	1
68) N-nitroso-diphenylamine	9.24	169	3098	0.01 ug/l #	50
69) 4-Bromophenyl phenyl ether	9.37	248	19037	0.30 ug/l #	1
70) Hexachlorobenzene	0.00	284	0	N.D.	
71) Atrazine	9.94	200	30328	0.54 ug/l #	23
72) Pentachlorophenol	9.94	266	172023	4.43 ug/l #	97
73) Phenanthrene	10.16	178	5340	0.02 ug/l #	59
74) Anthracene	10.22	178	1013	N.D.	
75) Carbazole	10.42	167	2927	Below Cal #	33
77) Di-n-butylphthalate	10.80	149	30943	0.09 ug/l	97
78) Fluoranthene	11.48	202	3474	0.01 ug/l #	59
80) Benzidine	0.00	184	0	N.D.	
81) Pyrene	11.73	202	2486129	7.66 ug/l	99
82) Butyl Benzyl Phthalate	12.06	149	1177	N.D.	
83) Bis(2-ethylhexyl)adipate	12.54	129	1848	0.02 ug/l #	1
84) Bis(2-ethylhexyl)phthalate	13.09	149	12433	0.08 ug/l #	78
85) Dicyclohexylphthalate	13.09	149	12433	0.06 ug/l #	93
86) 3,3' Dichlorobenzidine	13.07	252	2748	0.04 ug/l #	65
87) Benzo(a)anthracene	13.06	228	8265	0.03 ug/l #	45
88) Chrysene	13.10	228	10772	0.04 ug/l	96
89) Di-n-octylphthalate	13.77	149	2915	0.64 ug/l #	100
91) Benzo(b)fluoroanthene	14.18	252	9116	0.04 ug/l #	40
92) Benzo(k)fluoroanthene	14.20	252	12278	0.05 ug/l #	70
93) Benzo(a)pyrene	14.49	252	7734	0.03 ug/l #	68

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\05-23-12_195\
Data File : 1206145-BSD1.D
Acq On : 23 May 2012 13:12
Operator : DMC
Sample : 1206145-BSD1
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 23 13:30:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\VF050112.M
Quant Title : 8270C/625 BNA
QLast Update : Wed May 23 11:10:36 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
94) Indeno(1,2,3-cg)pyrene	15.56	276	2949	0.01	ug/l #	41
95) Dibenzo(a,h)anthracene	15.57	278	1490	N.D.		
96) Benzo(g,h,i)perylene	15.86	276	3181	0.01	ug/l #	63

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

LCS / LCS DUPLICATE RECOVERY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

SDG: KNM050712

Project: KNM

Laboratory ID: 1206587-BS1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 1000 mL / 1 mL

QC Batch: 1206587

Sequence: 2E31014

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Acenaphthene	9.40	8.86	94	53 - 126	ug/L
Naphthalene	9.40	8.96	95	50 - 127	ug/L
Pyrene	9.40	9.21	98	60 - 134	ug/L

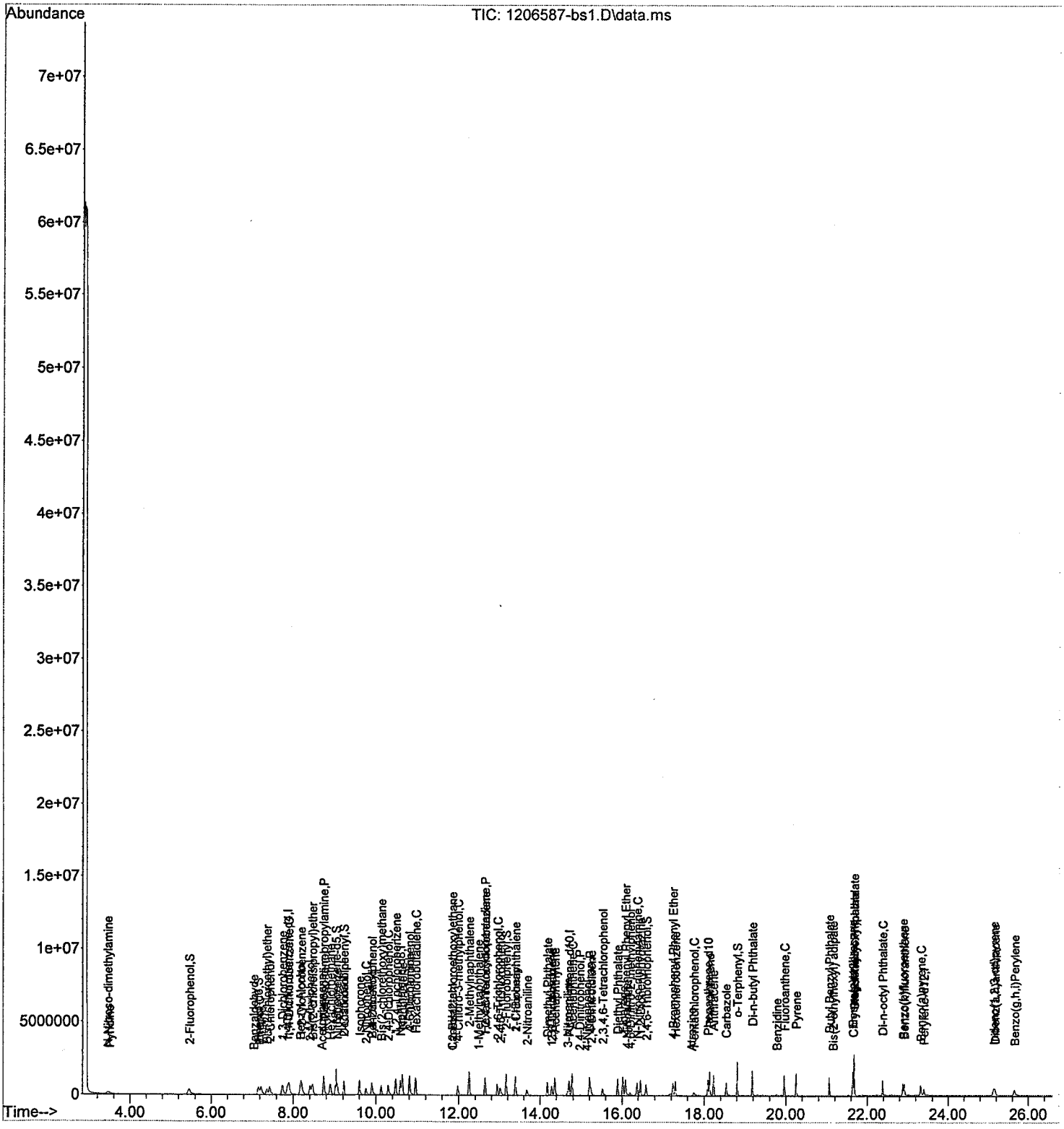
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-bs1.D
Acq On : 30 May 2012 13:35
Operator : JLB
Sample : 1206587-bs1 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 07:39:29 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-bs1.D
Acq On : 30 May 2012 13:35
Operator : JLB
Sample : 1206587-bs1 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 07:39:29 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.868	152	202585	5.00	ng/uL	# 0.00
21) Naphthalene-d8	10.596	136	840280	5.00	ng/uL	0.00
43) Acenaphthene-d10	14.705	164	428735	5.00	ng/uL	0.00
67) Phenanthrene-d10	18.091	188	588278	5.00	ng/uL	0.00
82) Chrysene-d12	21.658	240	295978	5.00	ng/uL	# 0.00
93) Perylene-d12	23.401	264	247180	5.00	ng/uL	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.461	112	586688	11.75	ng/uL	-0.02
7) Phenol-d6	7.163	99	460008	7.94	ng/uL	-0.01
22) Nitrobenzene-d5	9.039	82	648547	11.25	ng/uL	0.00
24) Decafluorobiphenyl	9.226	334	328983	7.92	ng/uL	0.00
48) 2-Fluorobiphenyl	13.160	172	897928	9.04	ng/uL	-0.01
71) 2,4,6-Tribromophenol	16.599	330	139394	18.57	ng/uL	0.00
79) o-Terphenyl	18.820	230	582284	9.74	ng/uL	0.00
Target Compounds						Qvalue
2) N-Nitroso-dimethylamine	3.456	74	187126	6.21	ng/uL	97
3) Pyridine	3.496	79	140700	2.27	ng/uL	96
5) Aniline	7.232	93	527020	7.74	ng/uL	97
6) Benzaldehyde	7.052	105	2912	0.09	ng/uL#	72
8) Phenol	7.192	94	279242	4.41	ng/uL#	5
9) Bis(2-chloroethyl)ether	7.372	93	364401	7.16	ng/uL	100
10) 2-Chlorophenol	7.442	128	438310	9.14	ng/uL#	71
11) 1,3-Dichlorobenzene	7.745	146	491852	8.36	ng/uL	92
12) 1,4-Dichlorobenzene	7.897	146	504740	8.90	ng/uL	91
13) 1,2-Dichlorobenzene	8.200	146	469514	8.48	ng/uL	90
14) Bis(2-chloroisipropyl)...	8.474	45	750257	9.28	ng/uL	91
15) Benzyl Alcohol	8.177	108	249984	8.09	ng/uL	96
16) 2-Methylphenol	8.410	108	315228	7.59	ng/uL#	87
17) Acetophenone	8.695	105	779	0.01	ng/uL#	19
18) Hexachloroethane	8.899	119	205482	9.75	ng/uL	97
19) 4-Methylphenol	8.748	107	370553	7.68	ng/uL#	83
20) N-Nitroso-di-n-propyla...	8.742	70	337063	9.25	ng/uL	87
23) Nitrobenzene	9.063	77	556983	9.38	ng/uL#	45
25) Isophorone	9.605	82	846667	9.84	ng/uL	95
26) 2-Chloroaniline	9.226	127	6752	0.11	ng/uL#	57
27) 2-Nitrophenol	9.762	139	210595	8.68	ng/uL#	92
28) 2,4-Dimethylphenol	9.908	107	380996	8.30	ng/uL	93
29) Bis(2-chlorethoxy)methane	10.135	93	419723	8.60	ng/uL	91
30) 2,4-Dichlorophenol	10.298	162	321488	8.92	ng/uL	98
31) Benzoic Acid	9.908	105	12605	1.63	ng/uL#	1
32) 1,2,4-Trichlorobenzene	10.485	180	415039	8.92	ng/uL	98
33) Naphthalene	10.642	128	1288046	8.96	ng/uL#	94
34) 4-Chloroaniline	10.805	127	423120	8.52	ng/uL#	66
35) 2,6-Dichlorophenol	10.811	162	340111	9.11	ng/uL#	85
36) Hexachlorobutadiene	10.963	225	248830	8.60	ng/uL	96
37) Caprolactam	11.843	55	969	0.76	ng/uL#	29
38) 1,2-Bis(2-chloroethoxy...	11.849	63	969	0.03	ng/uL#	100
39) 4-Chloro-3-methylphenol	11.983	107	335006	9.24	ng/uL#	87
40) 2-Methylnaphthalene	12.257	142	899898	9.67	ng/uL	96
41) 1-Methylnaphthalene	12.478	142	10448	0.12	ng/uL#	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-bs1.D
Acq On : 30 May 2012 13:35
Operator : JLB
Sample : 1206587-bs1 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 07:39:29 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.273	168	54	0.70	ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.653	216	195978	4.53	ng/uL	99
45) Hexachlorocyclopentadiene	12.641	237	209834	7.87	ng/uL	100
46) 2,4,6-Trichlorophenol	12.950	196	207591	8.58	ng/uL#	83
47) 2,4,5-Trichlorophenol	13.020	196	195254	8.03	ng/uL#	87
49) 2-Chloronaphthalene	13.393	162	760476	8.91	ng/uL	100
50) 1,1'-Biphenyl	13.388	154	2367	0.02	ng/uL#	76
51) 2-Nitroaniline	13.673	138	182079	8.07	ng/uL	88
52) Acenaphthylene	14.361	152	1112781	8.88	ng/uL#	76
53) 2,6-Dinitrotoluene	14.285	165	152534	7.74	ng/uL	93
54) Dimethyl Phthalate	14.180	163	667779	8.14	ng/uL	95
55) 3-Nitroaniline	14.670	138	111650	8.16	ng/uL#	1
56) Acenaphthene	14.781	153	710477	8.86	ng/uL	98
57) 2,4-Dinitrophenol	14.961	184	12195	4.47	ng/uL#	45
58) Dibenzofuran	15.206	168	1010706	9.14	ng/uL	94
59) 4-Nitrophenol	15.136	65	690	1.36	ng/uL#	1
60) 2,4-Dinitrotoluene	15.241	165	178285	7.26	ng/uL#	79
61) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.		
62) 2,3,4,6-Tetrachlorophenol	15.527	232	134863	6.87	ng/uL#	92
63) Fluorene	16.022	166	749580	8.77	ng/uL#	94
64) Diethyl Phthalate	15.894	149	724109	7.85	ng/uL	98
65) 4-Chlorophenyl Phenyl ...	16.086	204	348820	8.24	ng/uL#	86
66) 4-Nitroaniline	16.121	138	57054	6.85	ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.209	198	66085	5.72	ng/uL#	87
69) N-Nitroso-diphenylamine	16.378	169	422754	6.99	ng/uL	99
70) 1,2-Diphenylhydrazine	16.459	182	194128	10.07	ng/uL	87
72) 4-Bromophenyl Phenyl E...	17.246	248	170485	8.64	ng/uL	96
73) Hexachlorobenzene	17.310	284	191615	8.60	ng/uL#	92
74) Atrazine	17.701	200	117	0.01	ng/uL#	25
75) Pentachlorophenol	17.759	266	61390	5.62	ng/uL	93
76) Phenanthrene	18.132	178	913505	8.90	ng/uL	98
77) Anthracene	18.225	178	875647	8.71	ng/uL	96
78) Carbazole	18.540	167	619125	9.00	ng/uL	99
80) Di-n-butyl Phthalate	19.187	149	1074777	10.49	ng/uL	100
81) Fluoroanthene	19.968	202	797820	8.93	ng/uL#	86
83) Benzidine	19.782	184	356	0.14	ng/uL#	49
84) Pyrene	20.254	202	818519	9.21	ng/uL#	92
85) Butyl Benzyl Phthalate	21.064	149	326790	9.66	ng/uL	89
86) Bis(2-ethylhexyl) adipate	21.157	129	2113	0.26	ng/uL#	100
87) Benzo(a)anthracene	21.647	228	570092	8.83	ng/uL	97
88) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
89) Chrysene	21.682	228	557569	8.49	ng/uL	99
90) Bis(2-ethylhexyl)phtha...	21.682	149	419432	9.34	ng/uL	98
91) Dicyclohexyl Phthalate	21.682	149	428275	8.51	ng/uL#	100
92) Di-n-octyl Phthalate	22.381	149	590230	9.68	ng/uL	99
94) Benzo(b)fluoroanthene	22.888	252	456433	9.62	ng/uL	96
95) Benzo(k)fluoranthene	22.923	252	449182	9.36	ng/uL#	87
96) Benzo(a)pyrene	23.325	252	413606	9.47	ng/uL#	88
97) Indeno(1,2,3-cd)pyrene	25.138	276	406283	9.40	ng/uL	97
98) Dibenz(a,h)anthracene	25.167	278	338202	9.81	ng/uL	97
99) Benzo(g,h,i)Perylene	25.657	276	350501	9.47	ng/uL	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-bs1.D
Acq On : 30 May 2012 13:35
Operator : JLB
Sample : 1206587-bs1 Inst : 308
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 07:39:29 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

LCS / LCS DUPLICATE RECOVERY

USEPA-8270C

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

SDG: KNM050712

Project: KNM

Laboratory ID: 1206587-BSD1

Preparation: 3510C Liquid-Liquid Extraction

Initial/Final: 1000 mL / 1 mL

QC Batch: 1206587

Sequence: 2E31014

Analyte	Spike Added ug/L	LCSD Conc.	LCSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Acenaphthene	9.40	8.71	93	2	20	53 - 126	ug/L
Naphthalene	9.40	8.43	90	6	20	50 - 127	ug/L
Pyrene	9.40	9.21	98	0	20	60 - 134	ug/L

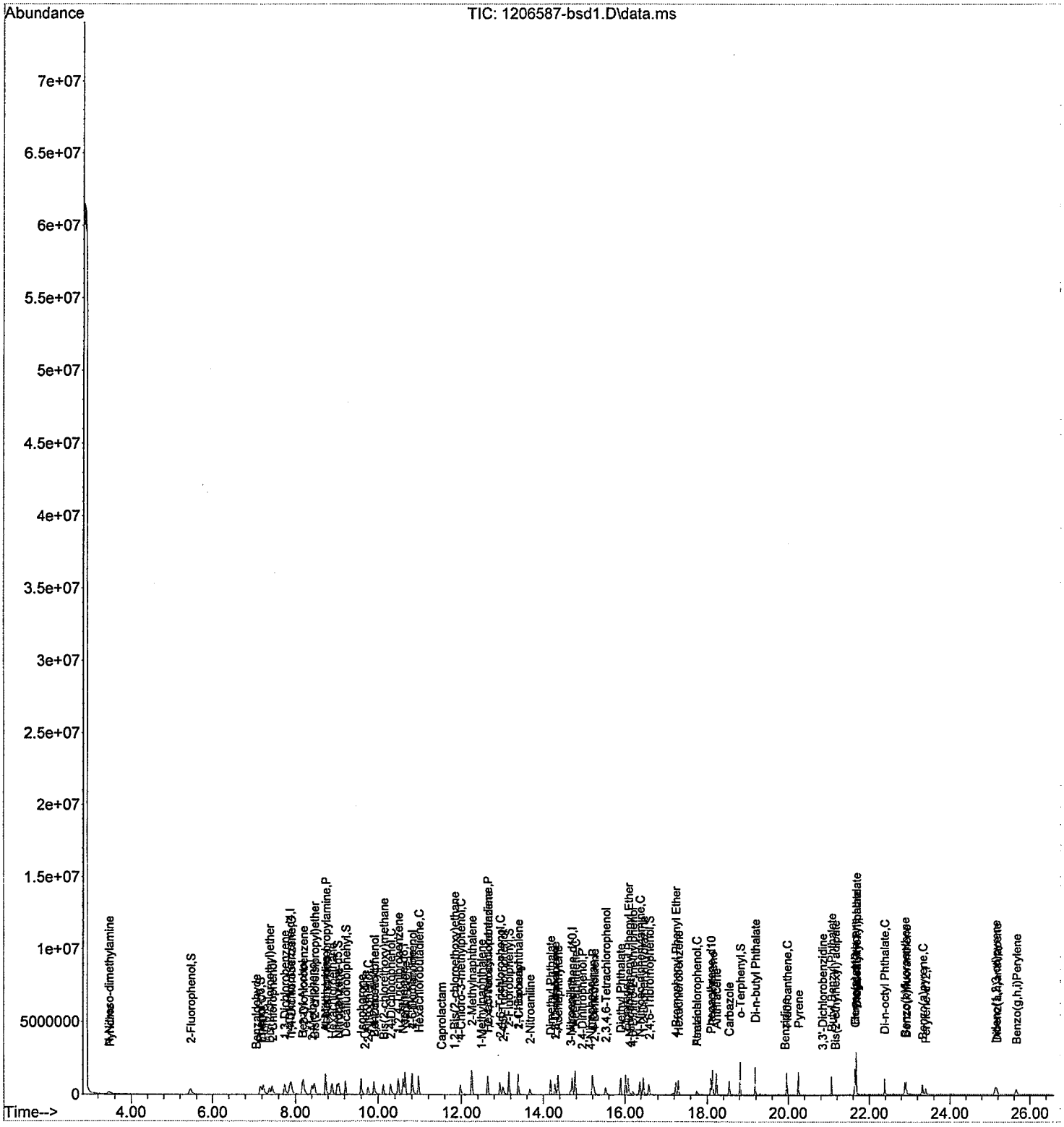
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-bsd1.D
Acq On : 30 May 2012 14:10
Operator : JLB
Sample : 1206587-bsd1 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 07:40:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-bsd1.D
Acq On : 30 May 2012 14:10
Operator : JLB
Sample : 1206587-bsd1 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 07:40:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.868	152	226513	5.00	ng/uL	#	0.00
21) Naphthalene-d8	10.596	136	938114	5.00	ng/uL		0.00
43) Acenaphthene-d10	14.705	164	473108	5.00	ng/uL		0.00
67) Phenanthrene-d10	18.091	188	646512	5.00	ng/uL		0.00
82) Chrysene-d12	21.653	240	316173	5.00	ng/uL	#	0.00
93) Perylene-d12	23.401	264	270190	5.00	ng/uL	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.461	112	617928	11.07	ng/uL		-0.02
7) Phenol-d6	7.157	99	522162	8.06	ng/uL		-0.02
22) Nitrobenzene-d5	9.028	82	554754	8.62	ng/uL		0.00
24) Decafluorobiphenyl	9.232	334	338102	7.29	ng/uL		0.00
48) 2-Fluorobiphenyl	13.160	172	955932	8.72	ng/uL		-0.01
71) 2,4,6-Tribromophenol	16.599	330	144627	17.53	ng/uL		0.00
79) o-Terphenyl	18.820	230	596123	9.07	ng/uL		0.00
Target Compounds							Qvalue
2) N-Nitroso-dimethylamine	3.461	74	206241	6.13	ng/uL		100
3) Pyridine	3.479	79	140354	2.02	ng/uL		88
5) Aniline	7.232	93	580035	7.62	ng/uL		90
6) Benzaldehyde	7.058	105	3364	0.10	ng/uL#		14
8) Phenol	7.186	94	310431	4.39	ng/uL#		7
9) Bis(2-chloroethyl)ether	7.378	93	394636	6.93	ng/uL		100
10) 2-Chlorophenol	7.448	128	468087	8.73	ng/uL#		40
11) 1,3-Dichlorobenzene	7.745	146	531862	8.09	ng/uL		95
12) 1,4-Dichlorobenzene	7.897	146	528287	8.33	ng/uL		94
13) 1,2-Dichlorobenzene	8.200	146	494771	7.99	ng/uL		91
14) Bis(2-chloroisipropyl)...	8.474	45	780721	8.64	ng/uL		91
15) Benzyl Alcohol	8.177	108	266399	7.71	ng/uL		92
16) 2-Methylphenol	8.416	108	343725	7.40	ng/uL#		88
17) Acetophenone	8.736	105	6451	0.09	ng/uL#		1
18) Hexachloroethane	8.899	119	203534	8.64	ng/uL		97
19) 4-Methylphenol	8.742	107	419721	7.78	ng/uL#		86
20) N-Nitroso-di-n-propyla...	8.748	70	360661	8.85	ng/uL		88
23) Nitrobenzene	9.063	77	547835	8.26	ng/uL#		55
25) Isophorone	9.605	82	925177	9.63	ng/uL		96
26) 2-Chloroaniline	9.686	127	191	0.00	ng/uL#		1
27) 2-Nitrophenol	9.762	139	238979	8.83	ng/uL#		90
28) 2,4-Dimethylphenol	9.908	107	412207	8.04	ng/uL		94
29) Bis(2-chlorethoxy)methane	10.135	93	448771	8.24	ng/uL		92
30) 2,4-Dichlorophenol	10.304	162	348842	8.67	ng/uL		98
31) Benzoic Acid	9.908	105	15101	1.65	ng/uL#		1
32) 1,2,4-Trichlorobenzene	10.479	180	416417	8.01	ng/uL		99
33) Naphthalene	10.642	128	1353591	8.43	ng/uL		96
34) 4-Chloroaniline	10.805	127	469703	8.48	ng/uL#		72
35) 2,6-Dichlorophenol	10.811	162	356603	8.55	ng/uL#		82
36) Hexachlorobutadiene	10.969	225	257572	7.98	ng/uL		97
37) Caprolactam	11.517	55	1592	0.78	ng/uL#		26
38) 1,2-Bis(2-chloroethoxy...	11.837	63	707	0.02	ng/uL#		100
39) 4-Chloro-3-methylphenol	11.983	107	363631	8.98	ng/uL		92
40) 2-Methylnaphthalene	12.257	142	948160	9.13	ng/uL		96
41) 1-Methylnaphthalene	12.484	142	10840	0.11	ng/uL#		67

01072

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-bsd1.D
Acq On : 30 May 2012 14:10
Operator : JLB
Sample : 1206587-bsd1 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 07:40:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 1,3 Dinitrobenzene	14.285	168	165	0.71 ng/uL	100
44) 1,2,4,5-Tetrachloroben...	12.653	216	206257	4.32 ng/uL	99
45) Hexachlorocyclopentadiene	12.641	237	217354	7.42 ng/uL	98
46) 2,4,6-Trichlorophenol	12.945	196	225902	8.46 ng/uL	97
47) 2,4,5-Trichlorophenol	13.020	196	211722	7.89 ng/uL	96
49) 2-Chloronaphthalene	13.393	162	807326	8.57 ng/uL	100
50) 1,1'-Biphenyl	13.393	154	1923	0.02 ng/uL#	59
51) 2-Nitroaniline	13.673	138	208676	8.36 ng/uL	94
52) Acenaphthylene	14.361	152	1222403	8.84 ng/uL#	76
53) 2,6-Dinitrotoluene	14.291	165	163698	7.54 ng/uL	89
54) Dimethyl Phthalate	14.180	163	735269	8.12 ng/uL	98
55) 3-Nitroaniline	14.670	138	118338	7.85 ng/uL#	1
56) Acenaphthene	14.781	153	770714	8.71 ng/uL	99
57) 2,4-Dinitrophenol	14.950	184	9346	4.19 ng/uL#	6
58) Dibenzofuran	15.206	168	1101956	9.03 ng/uL	95
59) 4-Nitrophenol	15.154	65	314	1.33 ng/uL#	28
60) 2,4-Dinitrotoluene	15.241	165	196204	7.25 ng/uL#	81
61) 2,3,5,6-Tetrachlorophenol	0.000		0	N.D.	
62) 2,3,4,6-Tetrachlorophenol	15.527	232	143819	6.66 ng/uL#	92
63) Fluorene	16.022	166	798029	8.47 ng/uL#	95
64) Diethyl Phthalate	15.894	149	775332	7.63 ng/uL	96
65) 4-Chlorophenyl Phenyl ...	16.092	204	380813	8.15 ng/uL	88
66) 4-Nitroaniline	16.121	138	74718	8.12 ng/uL#	1
68) 4,6-Dinitro-2-methylph...	16.203	198	69567	5.52 ng/uL#	88
69) N-Nitroso-diphenylamine	16.378	169	448140	6.74 ng/uL	98
70) 1,2-Diphenylhydrazine	16.459	182	207573	9.80 ng/uL	92
72) 4-Bromophenyl Phenyl E...	17.246	248	181591	8.38 ng/uL	99
73) Hexachlorobenzene	17.304	284	205933	8.41 ng/uL#	94
74) Atrazine	17.753	200	6055	0.33 ng/uL#	25
75) Pentachlorophenol	17.753	266	67118	5.60 ng/uL	96
76) Phenanthrene	18.132	178	961238	8.52 ng/uL	97
77) Anthracene	18.225	178	944861	8.55 ng/uL	96
78) Carbazole	18.540	167	681854	9.02 ng/uL	100
80) Di-n-butyl Phthalate	19.187	149	1111704	9.88 ng/uL	100
81) Fluoroanthene	19.968	202	858586	8.74 ng/uL#	86
83) Benzidine	19.916	184	188	0.07 ng/uL#	1
84) Pyrene	20.254	202	873964	9.21 ng/uL#	89
85) Butyl Benzyl Phthalate	21.064	149	337536	9.35 ng/uL	90
86) Bis(2-ethylhexyl) adipate	21.157	129	2247	0.26 ng/uL#	100
87) Benzo(a)anthracene	21.647	228	607073	8.80 ng/uL	97
88) 3,3'-Dichlorobenzidine	20.842	252	97	0.21 ng/uL	93
89) Chrysene	21.682	228	602532	8.59 ng/uL	99
90) Bis(2-ethylhexyl)phtha...	21.682	149	424721	8.88 ng/uL	98
91) Dicyclohexyl Phthalate	21.682	149	436144	8.11 ng/uL#	100
92) Di-n-octyl Phthalate	22.381	149	607180	9.33 ng/uL	100
94) Benzo(b)fluoroanthene	22.888	252	471705	9.10 ng/uL	96
95) Benzo(k)fluoranthene	22.923	252	480339	9.16 ng/uL#	90
96) Benzo(a)pyrene	23.325	252	427919	8.96 ng/uL#	90
97) Indeno(1,2,3-cd)pyrene	25.138	276	421290	8.92 ng/uL	98
98) Dibenz(a,h)anthracene	25.167	278	358110	9.50 ng/uL	98
99) Benzo(g,h,i)Perylene	25.657	276	355423	8.79 ng/uL	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\053012_308\
Data File : 1206587-bsd1.D
Acq On : 30 May 2012 14:10
Operator : JLB
Sample : 1206587-bsd1 Inst : 308
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 07:40:14 2012
Quant Method : C:\msdchem\1\METHODS\051812bna.M
Quant Title : 8270/625 BNA
QLast Update : Thu May 31 07:37:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

01074

TriMatrix Laboratories, Inc.

PREPARATION BATCH 1206587

Printed: 5/24/2012 4:13:07PM

Semivolatiles MS, Water, 3510C Liquid-Liquid Extraction

Surrogate #1 = 2041292 (Pre-Prep)

Batch Comments: (none)

91573

Standard	Description	Solvent	LotNum
1101172	10 N NaOH	ASTM II H2O	111357
1101391	1:1 Sulfuric Acid	ASTM H2O	111857
2020310	MeCl2 - Lot K45S01	N/A	K45S01
2031096	Rinsed Sodium Sulfate	MeCl2/K45S01	K36612
2041011	Full List Spike	MeOH/117578	na
2041292	BNA Surrogate	MeOH/117578	na

Work Order	Analysis	Work Order	Analysis	Work Order	Analysis
1205358	8270C MDEQ PNA	1205374	8270C MDEQ PNA		

Balance ID: _____ **pH Meter:** _____

Lab Number	Contain	Prepared	By	Initial (mL)	Final (mL)	uL Surrogate	Source ID	Spike ID	uL Spike	Client / QC Type	Extraction Comments
1206587-BLK1		May-24-12 08:11	ALK	1000	1	100				BLANK	Same as 1206588
1206587-BS1		May-24-12 08:11	ALK	1000	1	100		2041011	100	LCS	Same as 1206588
1206587-BSD1		May-24-12 08:11	ALK	1000	1	100		2041011	100	LCS DUP	Same as 1206588
1205358-01	I	May-24-12 08:11	ALK	970	1	100				TechLaw	
1205374-01	I	May-24-12 08:11	ALK	950	1	100				TechLaw	

Comments:

Analyst Initials:

TriMatrix Laboratories, Inc.

PREPARATION BATCH **1206145** Page 1 of 1

Printed: 5/15/2012 3:42:25PM

Semivolatiles MS, Water, 3510C Liquid-Liquid Extraction

Surrogate #1 = 2041292 (Pre-Prep)

Batch Comments: (none)

61975

Standard	Description	Solvent	LotNum
1101172	10 N NaOH	ASTM II H2O	111357
1101391	1:1 Sulfuric Acid	ASTM H2O	111857
2020310	MeCl2 - Lot K45S01	N/A	K45S01
2031096	Rinsed Sodium Sulfate	MeCl2/K45S01	K36612
2040169	Short List Spike	MeOH/113905	na
2041292	BNA Surrogate	MeOH/117578	na

Work Order	Analysis	Work Order	Analysis	Work Order	Analysis
1205226	8270C MDEQ PNA				

Balance ID: _____ **pH Meter:** _____

Lab Number	*Contain*	*Prepared*	*By*	*Initial (mL)*	*Final (mL)*	*uL Surrogate*	*Source ID*	*Spike ID*	*uL Spike*	*Client / QC Type*	*Extraction Comments*
1206145-BLK1		May-15-12 07:59	ALK	1000	1	100				BLANK	
1206145-BS1		May-15-12 07:59	ALK	1000	1	100		2040169	100	LCS	
1206145-BSD1		May-15-12 07:59	ALK	1000	1	100		2040169	100	LCS DUP	
1205226-01	I	May-15-12 07:59	ALK	980	1	100				TechLaw	
1205226-02	I	May-15-12 07:59	ALK	970	1	100				TechLaw	

Comments:

Analyst Initials:

Semivolatiles MS, Water, May-01-12

Instrument = 195, Calibration = 2E23023

Sequence Analyses:

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2E23075-TUN1	QC		2040943		MS TUNE	
2E23075-CAL1	QC		2050106	2020399	CAL STANDARD	
2E23075-CAL2	QC		2050107	2020399	CAL STANDARD	
2E23075-CAL3	QC		2050108	2020399	CAL STANDARD	
2E23075-CAL4	QC		2050109	2020399	CAL STANDARD	
2E23075-CAL5	QC		2050110	2020399	CAL STANDARD	
2E23075-CAL6	QC		2050111	2020399	CAL STANDARD	
2E23075-CAL7	QC		2050112	2020399	CAL STANDARD	
2E23075-CAL8	QC		2050113	2020399	CAL STANDARD	
2E23075-SCV1	QC		2050114	2020399	SECONDARY CAL CHECK	

Comments:

Analyst Initials:

Semivolatiles MS, Water, May-18-12

Instrument = 308, Calibration = 2E31003

Sequence Analyses:

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2E31013-TUN1	QC		2040943	2020399	MS TUNE	
2E31013-CAL1	QC		2050488	2020399	CAL STANDARD	
2E31013-CAL2	QC		2050487	2020399	CAL STANDARD	
2E31013-CAL3	QC		2050486	2020399	CAL STANDARD	
2E31013-CAL4	QC		2050485	2020399	CAL STANDARD	
2E31013-CAL5	QC		2050484	2020399	CAL STANDARD	
2E31013-CAL6	QC		2050483	2020399	CAL STANDARD	
2E31013-CAL7	QC		2050482	2020399	CAL STANDARD	
2E31013-CAL8	QC		2050481	2020399	CAL STANDARD	
2E31013-SCV1	QC		2050489	2020399	SECONDARY CAL CHECK	

Comments:

Analyst Initials:

Semivolatiles MS, Water, May-23-12

Instrument = 195, Calibration = 2E23023

Sequence Analyses:
8270C MDEQ PNA

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2E23055-TUN1	QC		2040943		MS TUNE	
2E23055-CCV1	QC		2050110	2020399	CALIBRATION CHECK	
1206145-BLK1	QC			2020399	BLANK	
1206145-BS1	QC			2020399	LCS	
1206145-BSD1	QC			2020399	LCS DUP	
1205226-01	8270C MDEQ PNA	I 01		2020399	TechLaw	
1205226-02	8270C MDEQ PNA	I 01		2020399	TechLaw	

Comments:

Analyst Initials:

Semivolatiles MS, Water, May-30-12

Instrument = 308, Calibration = 2E31003

Sequence Analyses:
8270C MDEQ PNA

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2E31014-TUN1	QC		2040943	2020399	MS TUNE	
2E31014-CCV1	QC		2050484	2020399	CALIBRATION CHECK	
1206587-BLK1	QC			2020399	BLANK	Same as 1206588
1206587-BS1	QC			2020399	LCS	Same as 1206588
1206587-BSD1	QC			2020399	LCS DUP	Same as 1206588
1205358-01	8270C MDEQ PNA	I 01		2020399	TechLaw	
1205374-01	8270C MDEQ PNA	I 01		2020399	TechLaw	

Comments:

Analyst Initials:

TriMatrix Laboratories, Inc.

Instrument ID: HP GC/MS Instrument #195 **Date:** 5/1/12 **Taped:** _____ **Disk ID:** _____ **Analyst:** [illegible]

Instrument Settings	Acquisition Information	Temperature Program					Miscellaneous
Multiplier: 2517	**Scan Range:** 40-450 amu	**GC**	**Temp. °C**	**Rate °C/min**	**Time min**	**Total min**	**New Column Date:** 4/30/12
Interface Temperature: 250° C	**Seconds/Scan:** 0.500						**New Septa:** (Yes) / No
Source Temperature: 230° C	**Filament Delay:** 3.5 min.	**Step #1**	45	0.0	1.5	1.5	**CCV Std. #:** 2050110
	Threshold: 2 counts	**Step #2**	200	10	15.5	17.0	**Int. Std. #:** 2040358
	Mass Defect: 0	**Step #3**	315	25	4.6	21.6	**Tune Std. #:** 2040943
	Background Mass: 35 amu	**Step #4**	315	0.0	4	25.6	**Injection Volume:** 1 uL
Acqpt / Acqpt time	**Curve Date:** 5/1/12	**Injector**	250	0.0	25.6	25.6	**DFTPP Area 198:** 1473821
		Injector					**DDT Breakdown:** 13.5%
		Injector					

Sample / File ID	Client	Injection Time	Dilution	Matrix	Fraction	Method	Notes
BFB 05-01B		0555	SIM	/	BNPP	8270c	
10 Blanks21		1000		/	BN		
CCV 0521		1045			ABN		
LCS 0521		1100		/	APH		
05 Blanks21		1140			BN		
1		1210					
2		1230		/			
5		1302					
10 (67)		1320					
15		1354		/			w/ Internal std Recalibration Required
20		1420					
25 Blanks21		1440		/		4	

ipr tcs Blanks21 — / — BN — 8270c

SIM

01981

TriMatrix Laboratories, Inc.

Sample / File ID	Client	Injection Time	Dilution	Matrix	Fraction	Method	Notes
15BR0501R		1023	SM		BA	8230	(4 ...)
1015BR0501A		1549					
BER0501A		1614					
1205234-RER1		1640					
L BS1		1705					
1205234 BSD1		1730					
RER0501B		1756					
→ 1204489-01		1846					
* 02		1911					- or Is Acc +
03		1936					
04		2001					
05		2026					
1204489-06		2057					(2135)
* 1204489-10		1821	SM		BA	8230	23 [illegible]

01082

TriMatrix Laboratories, Inc.

col. 2050217

Instrument ID: Agilent 5975B MSD Instrument #308 Date: 5 / 18 / 12 2nd Archived: _____ Disk ID: _____ Analyst: JWB

Instrument Settings		Acquisition Information	Temperature Program					Miscellaneous
Multiplier:	Inlet	Scan Range: 40 - 550 amu	GC	Temp. (C)	Rate (C/min)	Time (min)	Total (min)	New Column Date: 5-16-12
Quad Temperature: 180C	Surge Pressure: 40psi.	Seconds/Scan: 0.33	Step #1	45	0.0	1.5	1.5	New Septa: Yes / No
Inlet Temperature: 250C	Surge Duration: 0.2 min.	Filament Delay: 3.4 min.	Step #2	200	10	0	17.0	Working Standard: 2050484
Source Temperature: 230C			Step #3	315	25	5	26.6	Internal Standard: 2020399
Transfer Line Temperature: 280C								Tune Standard: 2050326
Column Flow: 1 mL/min.								Injection Volume: 1 uL
		abe 5-17-12						DFTPP Area 198:
ELEMENT Sequence:		Curve Date: ap9 5 / 7 / 12	Clipped Column / Changed Liner					DDT Breakdown: 1.28
		new bna						

File Name	Client	Injection Time	Dilution	Matrix	Fraction	Method	Notes
dft0518d		0821			DFTPP	8270C	pass
10appix0518		0840			appix		dinoseb pass
10abe0518		0913			abe		pass
10bna0518		0945			bna		
05		1020					
1		1055					
2		1130					
5		1205					
15		~~1~~					2min high or std.
20		1316					
25		1351					
JWB 5/18/12 ~~SCV~~ 15bna	0518a	1426					

file: 308run.xls page: 55 of 60 revision: 1.1

01083

TriMatrix Laboratories, Inc.

File Name	Client	Injection Time	Dilution	Matrix	Fraction	Method	Notes
Scv bna0518a		15:01			bnu	8270	
blk0518		1536					
1204830blk1	URS	1611					
1204257-01	"	1647					

TriMatrix Laboratories, Inc.

Instrument ID: HP GC/MS Instrument #195 **Date:** 5/23/12 **Taped:** _____ **Disk ID:** _____ **Analyst:** _____

Instrument Settings	Acquisition Information	Temperature Program					Miscellaneous
		GC	Temp. °C	Rate °C/min	Time min	Total min	
Multiplier: 2694	**Scan Range:** 40-450 amu						**New Column Date:** 5/12
Interface Temperature: 250° C	**Seconds/Scan:** 0.500						**New Septa:** Yes (No)
Source Temperature: 230° C	**Filament Delay:** 3.5 min.	**Step #1**	45	0.0	1.5	1.5	**CCV Std. #:** 205 0110
	Threshold: 2 counts	**Step #2**	200	10	15.5	17.0	**Int. Std. #:** 202 0399
	Mass Defect: 0	**Step #3**	315	25	4.6	21.6	**Tune Std. #:** 204 0953
Appl/changed GC	**Background Mass:** 35 amu	**Step #4**	315	0.0	4	25.6	**Injection Volume:** 1 uL
	Curve Date: 5/1/11	**Injector**	250	0.0	25.6	25.6	**DFTPP Area 198:** 1057 0016
		Injector					**DDT Breakdown:** ~ 2.0%
		Injector					

Sample / File ID	Client	Injection Time	Dilution	Matrix	Fraction	Method	Notes
BFB05231		0951	SM	/	BFB	8270	
10 ABEC0523		1013		/	BN		
10 BLANK 23		1039			↓		
10 cp 0523		1104		/	cp BN		
Replicate		1130			Replicate		Replicate
Refo523B		1156		/	DW		
120145-BLK1	Tech Law	1221		wet	PAH		
↓ DUP1	↓	1246	↓	↓	↓	↓	
120145-BSD1		1311					
* 120522C-01	↓	1401	↓	↓	↓	↓	
120522C-02	Tech Law	1427	SM	wet	PAH	8270	

* Refo523B 1558

TriMatrix Laboratories, Inc.

col. 2050217

Instrument ID: Agilent 5975B MSD Instrument #308 Date: 5 / 30 / 12 Archived: _____ Disk ID: _____ Analyst: JWS

Instrument Settings		Acquisition Information	Temperature Program					Miscellaneous
Multiplier:	Inlet	Scan Range: 40 - 550 amu	GC	Temp. (C)	Rate (C/min)	Time (min)	Total (min)	New Column Date: 5-16-12
Quad Temperature: 180C	Surge Pressure: 40psi.	Seconds/Scan: 0.33						New Septa: Yes / No
Inlet Temperature: 250C	Surge Duration: 0.2 min.	Filament Delay: 3.4 min.	Step #1	45	0.0	1.5	1.5	Working Standard: 2050484
Source Temperature: 230C			Step #2	200	10	0	17.0	Internal Standard: 2020399
Transfer Line Temperature: 280C			Step #3	315	25	5	26.6	Tune Standard: 2050326
Column Flow: 1 mL/min.								Injection Volume: 1 uL
								DFTPP Area 198:
ELEMENT Sequence:		Curve Date: 5/18/12	Clipped Column / Changed Liner					DDT Breakdown:

File Name	Client	Injection Time	Dilution	Matrix	Fraction	Method	Notes
dft0530b		1129		JWS 5/30/12	~~bna~~ DFTPP	8270C	
10~~80529~~ bna 30 ~~= 1010530~~ JWS 5/30/12		1150			bna		
blk0530		1225					
1206587-blk1		1259					= 1206588 blk = 1206590 blk
bs1		1335					bs bs
bsd1		1410					bsd bsd
1205437-01		1445					
1205358-01		1520					
1205374-01		1555					
1205356-01		1630					
2		1705					need 2x
4		1741					

01086