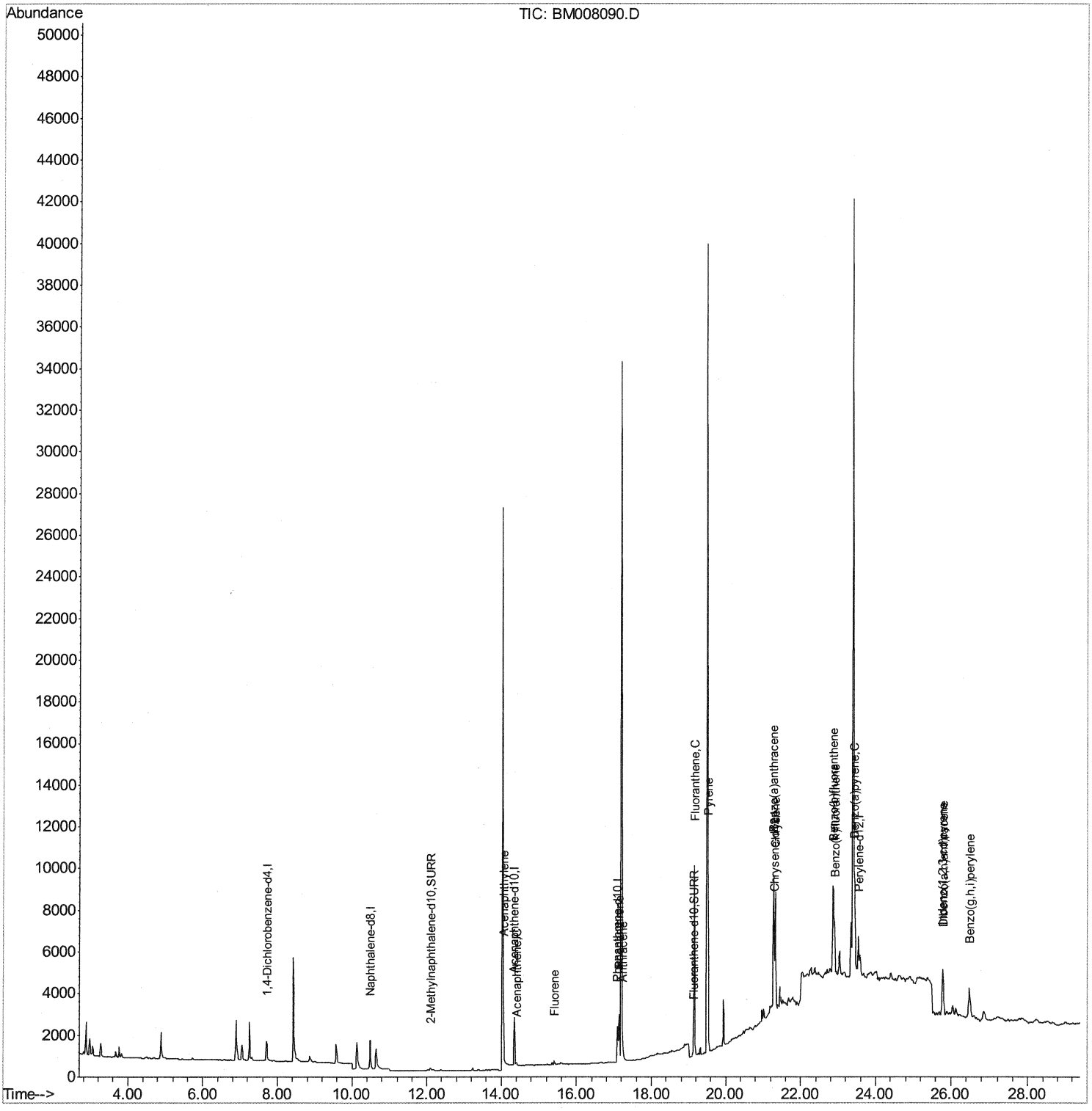
Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008090.D
Acq On : 28 Nov 2016 17:22
Operator : UM/SJ
Sample : H5701-07DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 17:56:26 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 25 01:27:01 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WD2DL

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:38 PM



Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008090.D
Acq On : 28 Nov 2016 17:22
Operator : UM/SJ
Sample : H5701-07DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 17:54:06 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 25 01:27:01 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WD2DL

Manual Integrations APPROVED
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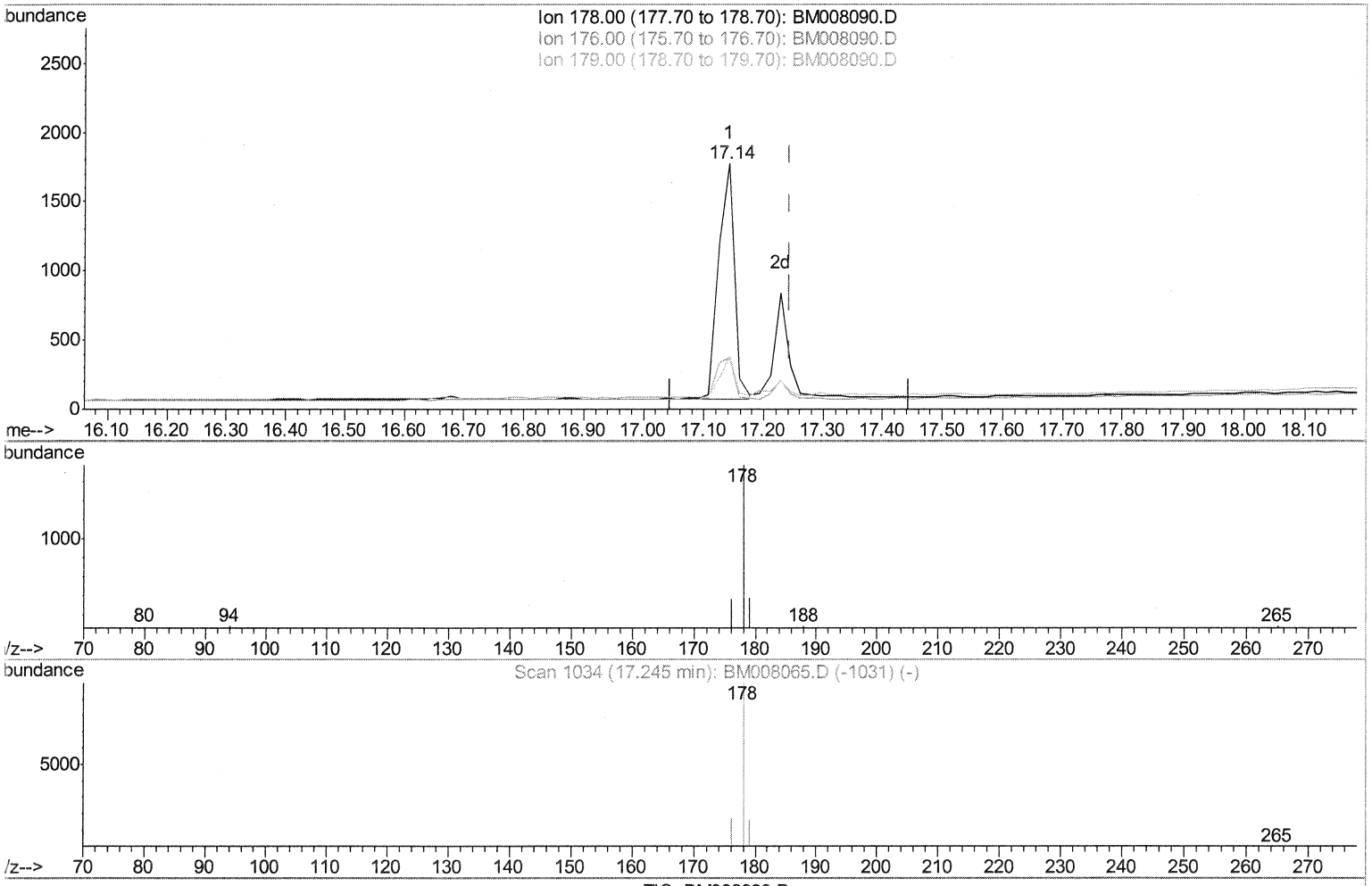

TIC: BM008090.D

(13) Anthracene

17.142min (-0.103) 0.42ng/ul

response 3134

Ion	Exp%	Act%
178.00	100	100
176.00	22.60	20.70
179.00	18.40	21.32
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
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Acq On : 28 Nov 2016 17:22
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Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 17:54:06 2016
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BNA_M
ClientSampleId :
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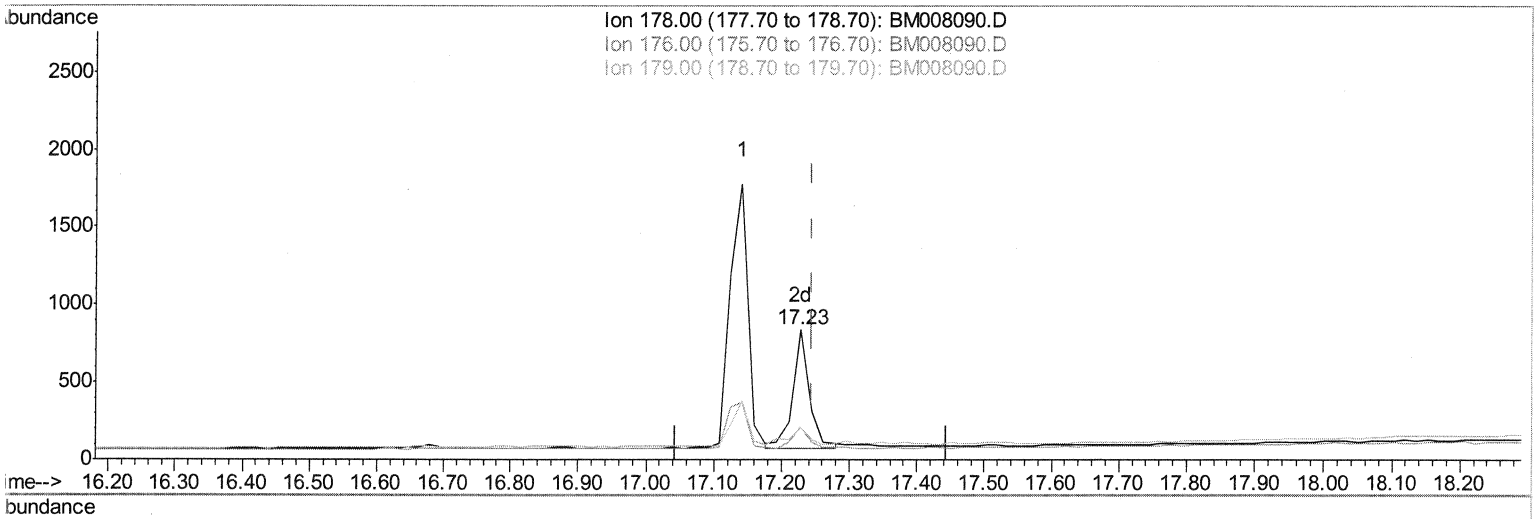
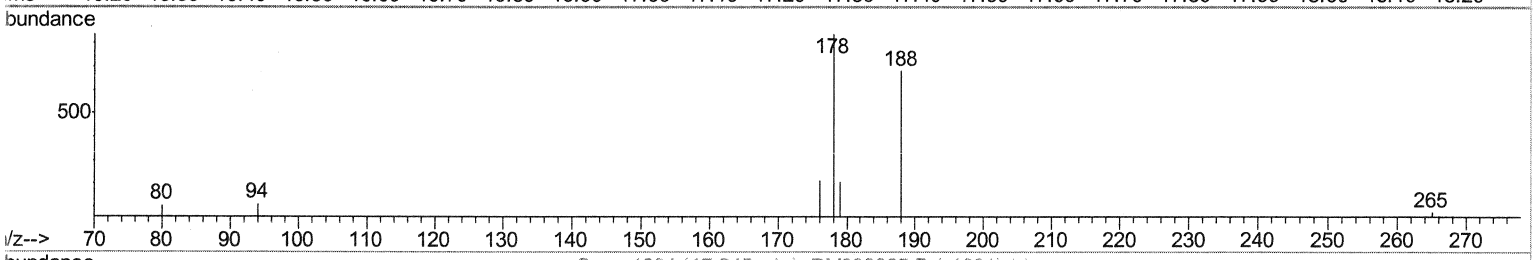
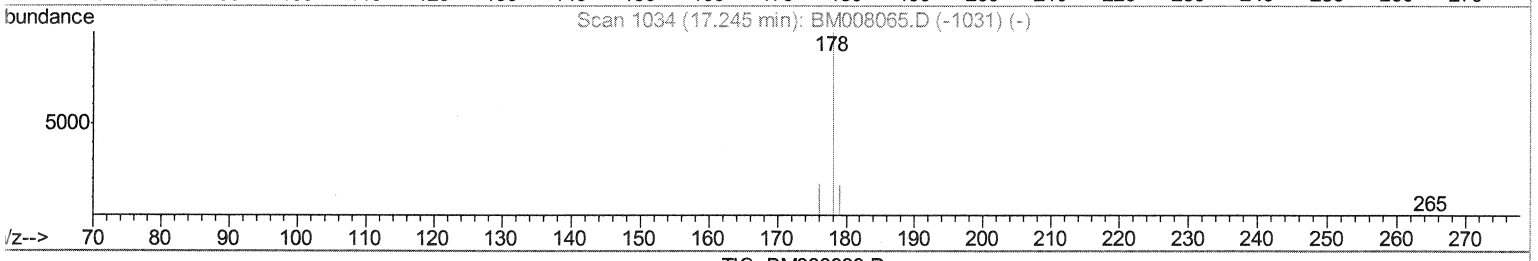
Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:38 PM







TIC: BM008090.D

(13) Anthracene

17.228min (-0.017) 0.18ng/ul m SJ 11/29/16

response 1310

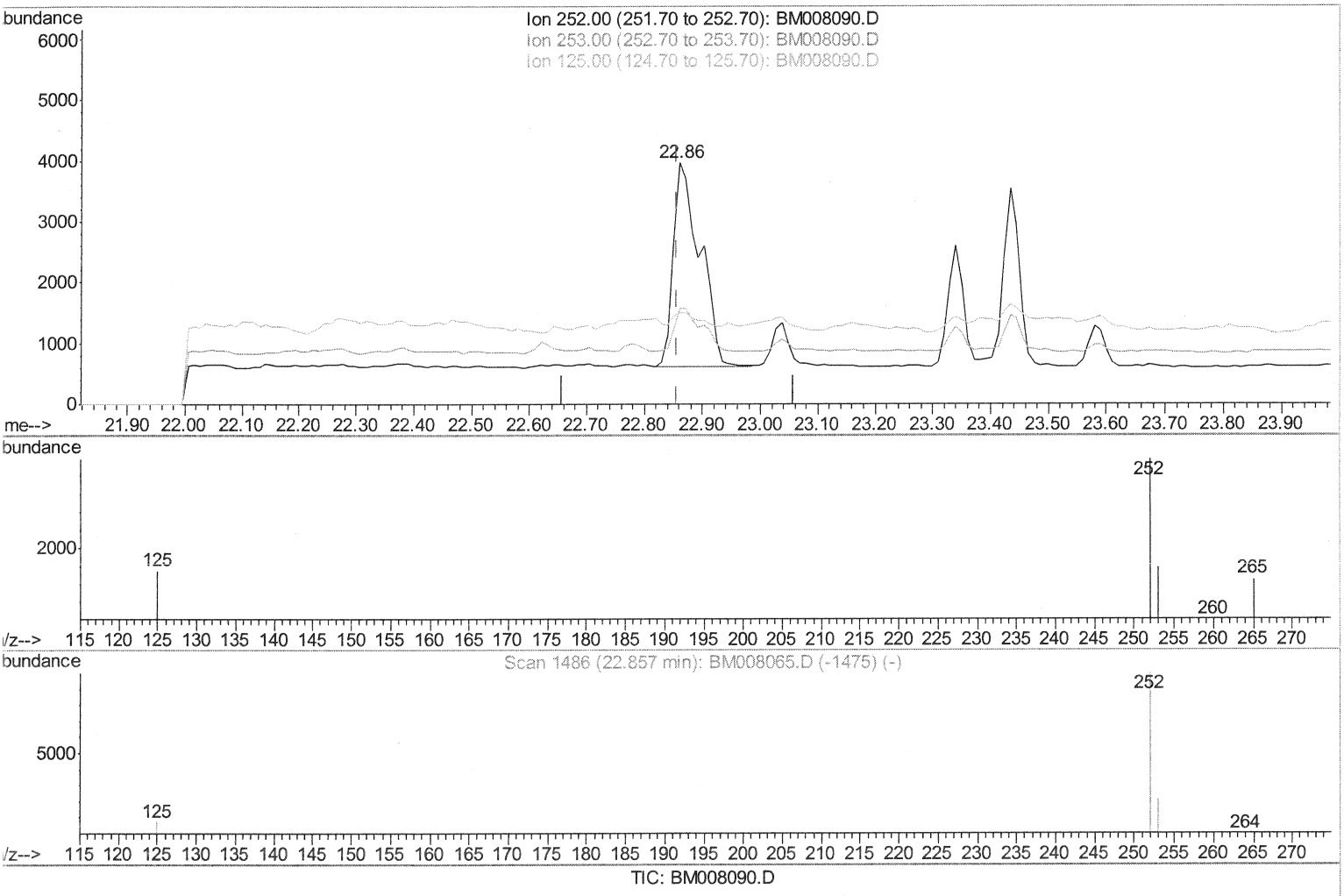
Ion	Exp%	Act%
178.00	100	100
176.00	22.60	25.39
179.00	18.40	25.03#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008090.D
Acq On : 28 Nov 2016 17:22
Operator : UM/SJ
Sample : H5701-07DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 17:54:06 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 25 01:27:01 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
A4WD2DL

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:38 PM



TIC: BM008090.D

(21) Benzo(b)fluoranthene

22.860min (+0.003) 1.13ng/ul

response 10591

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	39.41
125.00	17.50	37.70#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008090.D
Acq On : 28 Nov 2016 17:22
Operator : UM/SJ
Sample : H5701-07DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 17:54:06 2016
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Instrument :
BNA_M
ClientSampleId :
A4WD2DL

Manual Integrations APPROVED
UMANGI
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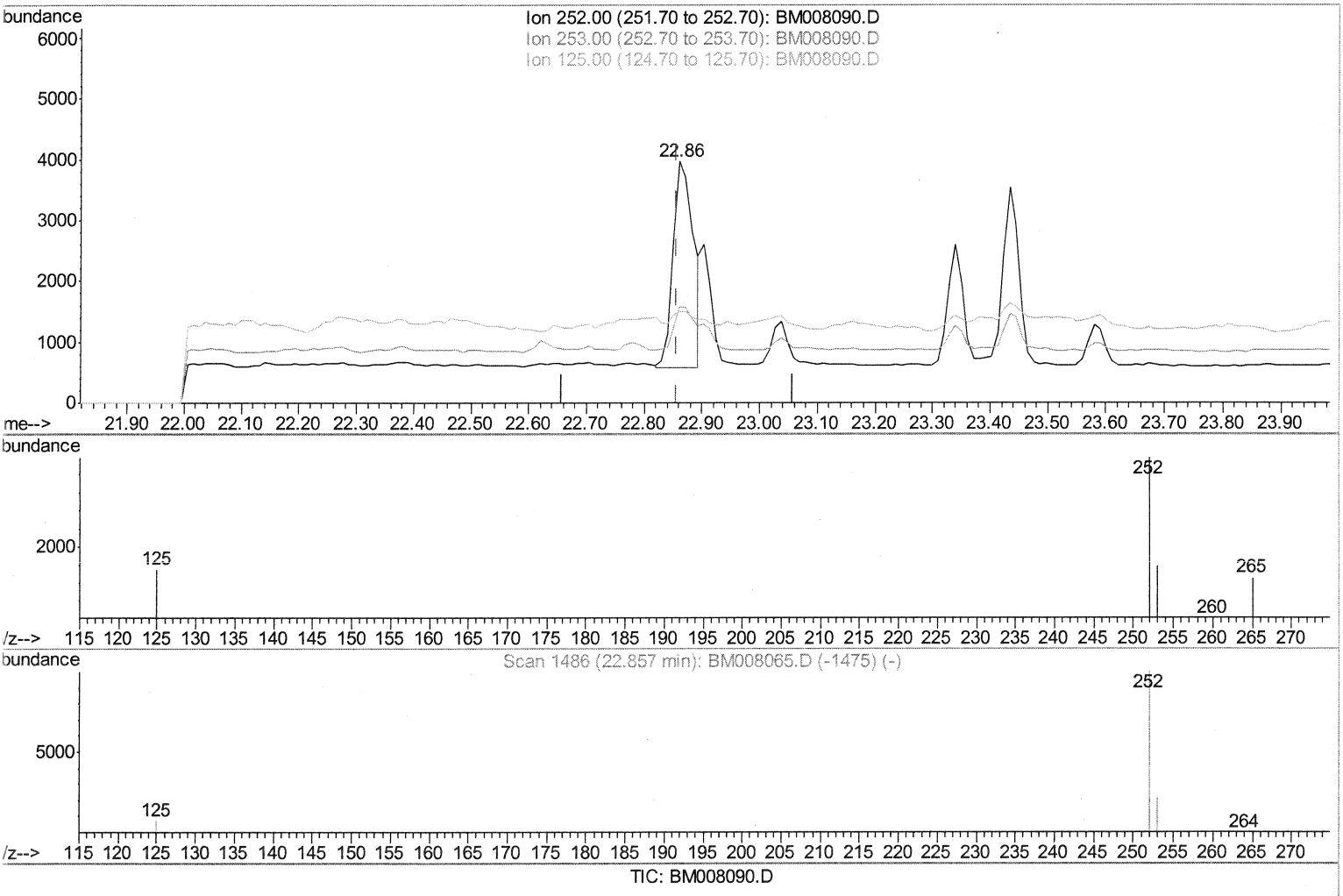

TIC: BM008090.D

(21) Benzo(b)fluoranthene

22.860min (+0.003) 0.88ng/ul m SJ 11/29/16

response 8301

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	39.41
125.00	17.50	37.70#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008090.D
Acq On : 28 Nov 2016 17:22
Operator : UM/SJ
Sample : H5701-07DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 17:54:06 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 25 01:27:01 2016
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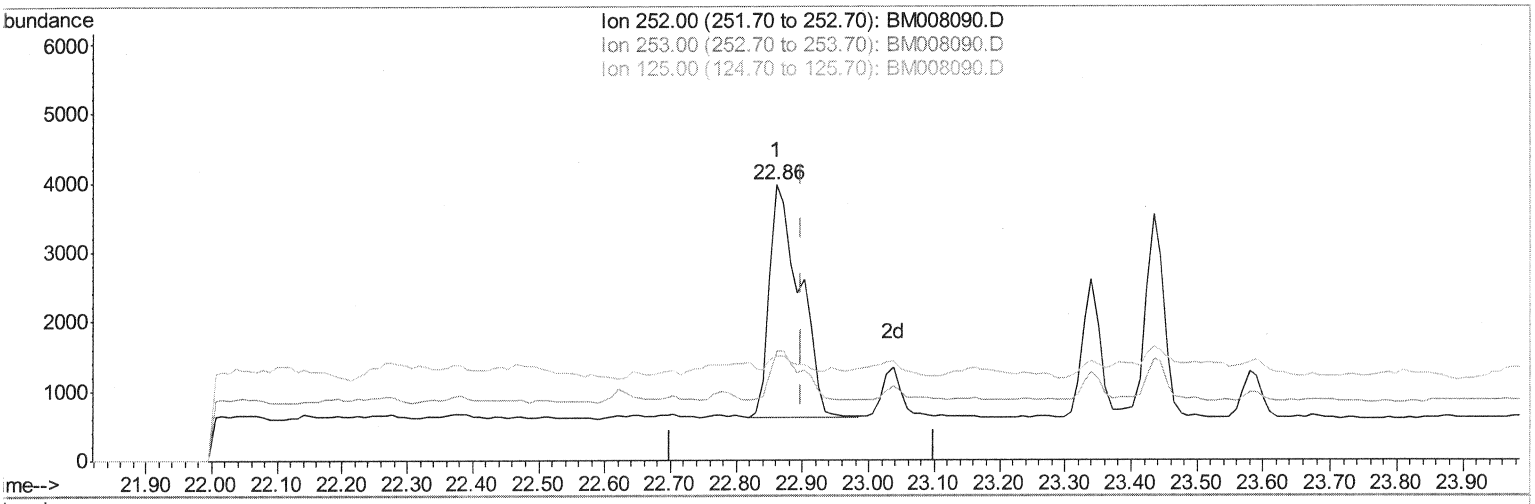
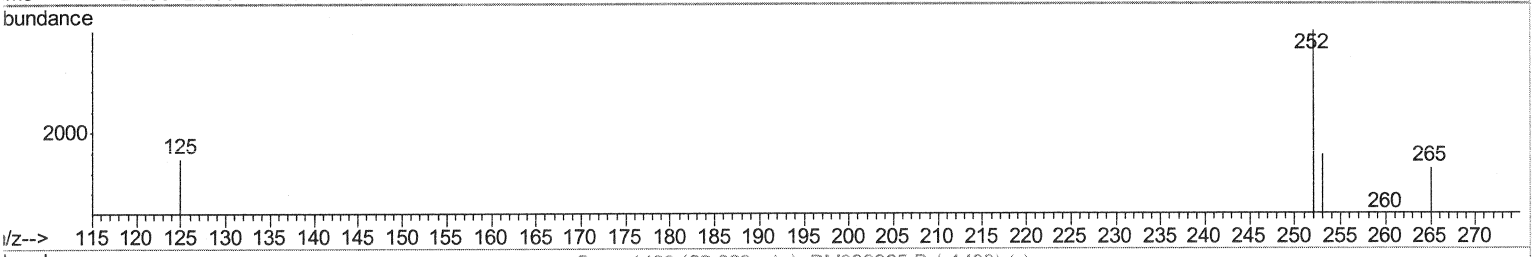
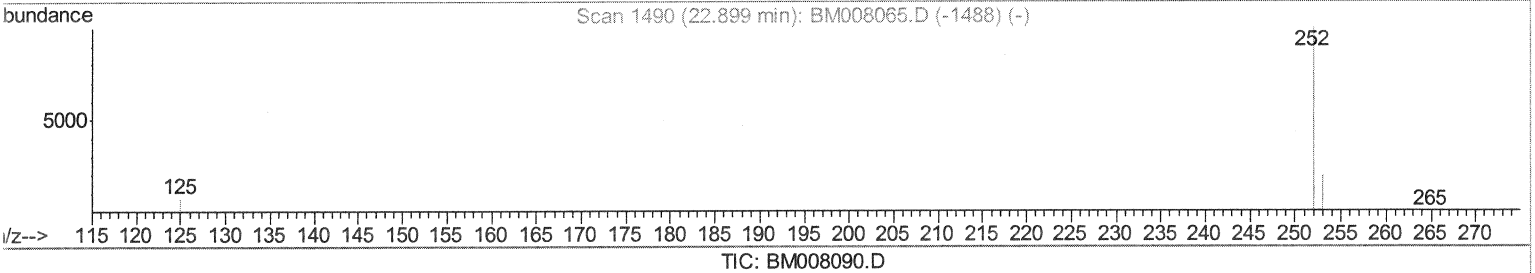
Instrument :
BNA_M
ClientSampleId :
A4WD2DL

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:38 PM







TIC: BM008090.D

(22) Benzo(k)fluoranthene

22.860min (-0.038) 1.09ng/ul

response 10591

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	39.41#
125.00	17.10	37.70#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
Data File : BM008090.D
Acq On : 28 Nov 2016 17:22
Operator : UM/SJ
Sample : H5701-07DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 17:54:06 2016
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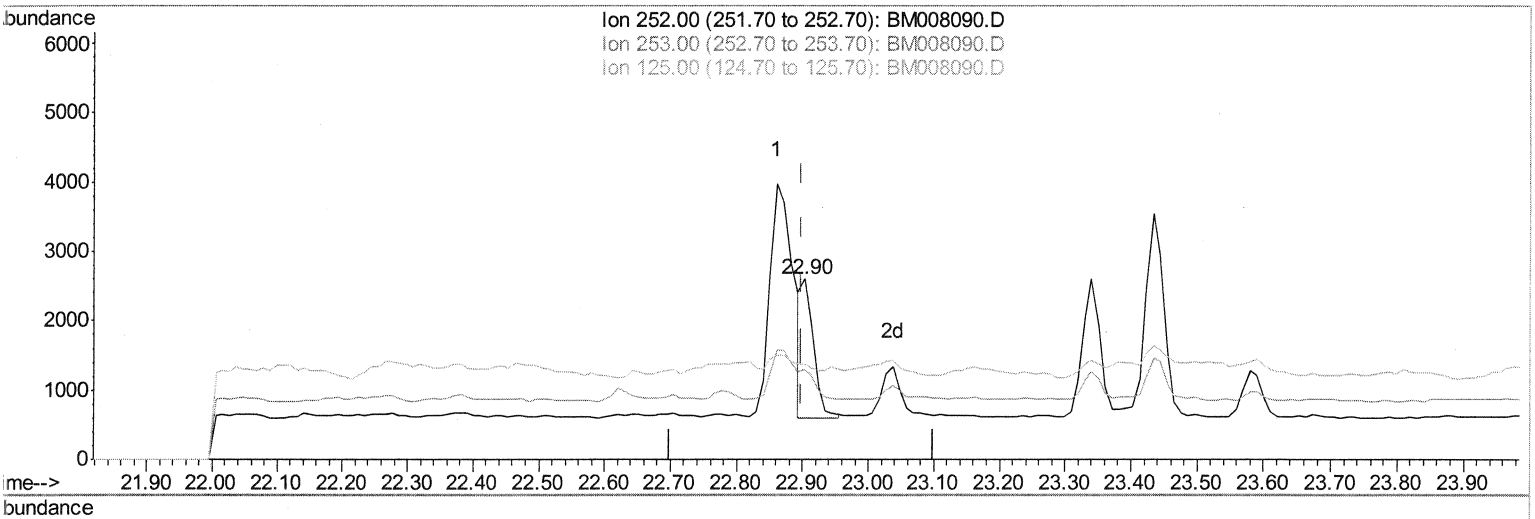
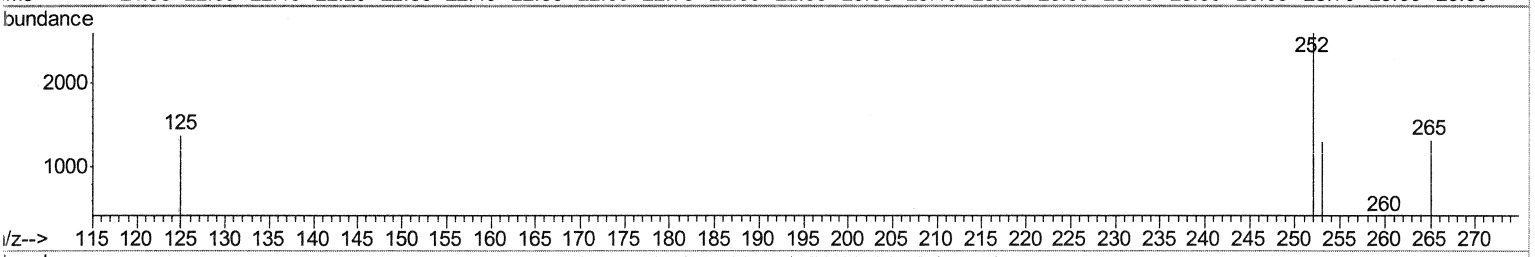
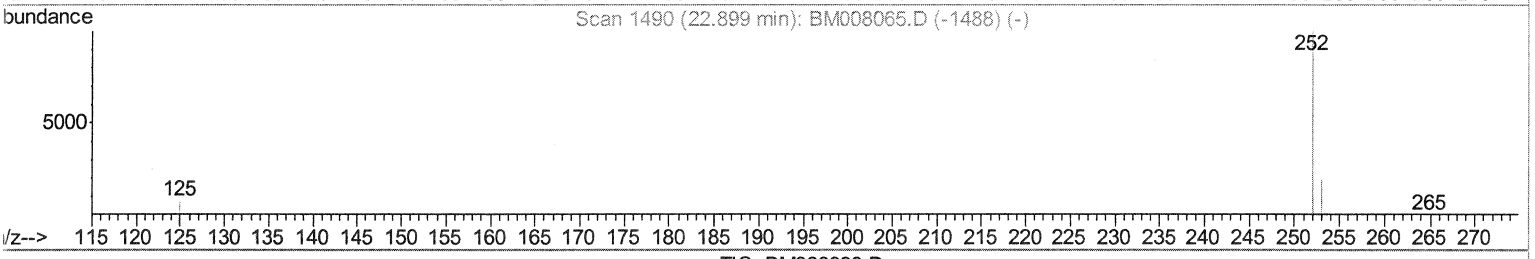
Instrument :
BNA_M
ClientSampleId :
A4WD2DL

Manual Integrations APPROVED
UMANGI
11/29/2016 2:22:38 PM







TIC: BM008090.D

(22) Benzo(k)fluoranthene

22.902min (+0.003) 0.26ng/ul m SJ 11/29/16

response 2565

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	50.37#
125.00	17.10	52.98#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM112816\
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Instrument : BNA_M
ClientSampleId : A4WD2DL

Manual Integrations APPROVED
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11/29/2016 2:22:38 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	652	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.50	136	2277	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.35	164	1364	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.09	188	2540	0.40	ng/ul	-0.02
16) Chrysene-d12	21.30	240	2338	0.40	ng/ul	0.00
20) Perylene-d12	23.54	264	2358	0.40	ng/ul	0.00
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.10	152	257	0.08	ng/ul	0.00
14) Fluoranthene-d10	19.14	212	788	0.11	ng/ul	0.00
Target Compounds						Qvalue
7) Acenaphthylene	14.06	152	841	0.14	ng/ul#	84
8) Acenaphthene	14.40	153	126	0.03	ng/ul#	85
9) Fluorene	15.41	166	199	0.04	ng/ul#	81
12) Phenanthrene	17.14	178	3136	0.40	ng/ul#	93
13) Anthracene	17.23	178	1310m	0.18	ng/ul	
15) Fluoranthene	19.16	202	9297	0.91	ng/ul	97
17) Pyrene	19.52	202	7956	0.98	ng/ul	99
18) Benzo(a)anthracene	21.28	228	5492	0.77	ng/ul#	80
19) Chrysene	21.33	228	5362	0.60	ng/ul#	78
21) Benzo(b)fluoranthene	22.86	252	8301m	0.88	ng/ul	
22) Benzo(k)fluoranthene	22.90	252	2565m	0.26	ng/ul	
23) Benzo(a)pyrene	23.43	252	5716	0.65	ng/ul#	75
24) Indeno(1,2,3-cd)pyrene	25.79	276	3876	0.36	ng/ul#	90
25) Dibenzo(a,h)anthracene	25.80	278	908	0.10	ng/ul#	1
26) Benzo(g,h,i)perylene	26.49	276	3253	0.34	ng/ul#	64

SJ 11/29/16

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