

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM070615\
 Data File : BM001866.D
 Acq On : 07 Jul 2015 14:01
 Operator : TP/UM
 Sample : G2860-17
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 G93K2

Manual Integrations
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Quant Time: Jul 08 04:33:13 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM061515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jul 08 02:11:29 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	61893	20.00	ng/ul	0.00
18) Naphthalene-d8	10.46	136	239215	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.33	164	136818	20.00	ng/ul	0.01
61) Phenanthrene-d10	17.07	188	302709	20.00	ng/ul	0.01
77) Chrysene-d12	21.27	240	361109	20.00	ng/ul	0.01
85) Perylene-d12	23.50	264	377614	20.00	ng/ul	0.03

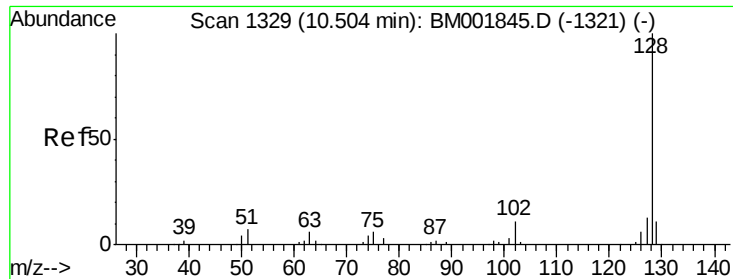
System Monitoring Compounds

3) 1,4-Dioxane-d8	3.15	96	5208	4.01	ng/uL	0.00
5) Phenol-d5	6.84	99	107069	22.52	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.00	67	60232	22.62	ng/ul	0.00
9) 2-Chlorophenol-d4	7.20	132	89900	23.91	ng/ul	0.00
13) 4-Methylphenol-d8	8.37	113	80113	20.99	ng/ul	0.00
19) Nitrobenzene-d5	8.83	128	42765	25.83	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	48408	26.73	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.08	165	91805	23.69	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	103030	26.13	ng/ul	0.00
43) Dimethylphthalate-d6	13.73	166	243333	23.98	ng/ul	0.00
46) Acenaphthylene-d8	14.02	160	332303	24.98	ng/ul	0.00
51) 4-Nitrophenol-d4	14.53	143	35192	18.80	ng/ul	0.01
57) Fluorene-d10	15.32	176	234432	24.90	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.46	200	9856	5.33	ng/ul	0.02
70) Anthracene-d10	17.17	188	353785	25.09	ng/ul	0.01
78) Pyrene-d10	19.47	212	405367	26.50	ng/ul	0.01
89) Benzo(a)pyrene-d12	23.36	264	421044	25.30	ng/ul	0.03

Target Compounds

						Qvalue
28) Naphthalene	10.51	128	1180441	97.73	ng/ul	99
34) 2-Methylnaphthalene	12.13	142	436975	50.03	ng/ul	99
40) 1,1'-Biphenyl	13.15	154	98526	8.82	ng/ul	99
44) Dimethylphthalate	13.78	163	72133	6.50	ng/ul#	96
47) Acenaphthylene	14.04	152	229210	16.90	ng/ul	98
49) Acenaphthene	14.39	153	60407	6.67	ng/ul	99
53) Dibenzofuran	14.72	168	64462	4.97	ng/ul	97
58) Fluorene	15.37	166	173148	16.03	ng/ul	99
69) Phenanthrene	17.12	178	1245751	75.90	ng/ul	99
71) Anthracene	17.20	178	284110	16.86	ng/ul	98
76) Fluoranthene	19.14	202	506040	25.78	ng/ul	100
79) Pyrene	19.50	202	975501	48.69	ng/ul	99
82) Benzo(a)anthracene	21.25	228	285976	13.55	ng/ul	94
84) Chrysene	21.30	228	229341	11.47	ng/ul	97
87) Benzo(b)fluoranthene	22.83	252	215131m	9.79	ng/ul	
88) Benzo(k)fluoranthene	22.86	252	54993m	2.59	ng/ul	
90) Benzo(a)pyrene	23.40	252	270797	12.66	ng/ul	97
91) Indeno(1,2,3-cd)pyrene	25.74	276	112343	4.43	ng/ul	95
92) Dibenzo(a,h)anthracene	25.76	278	32624	1.53	ng/ul#	72
93) Benzo(g,h,i)perylene	26.44	276	118106	5.54	ng/ul	98

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



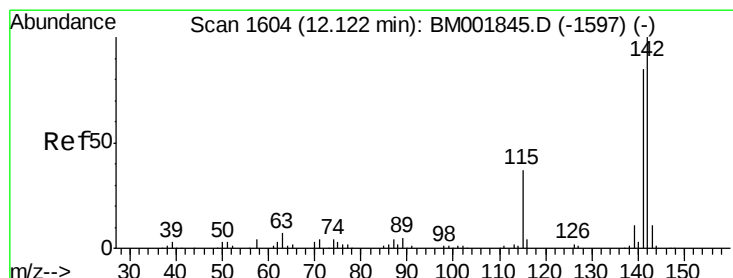
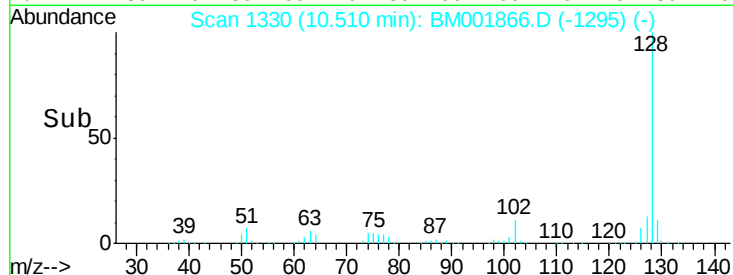
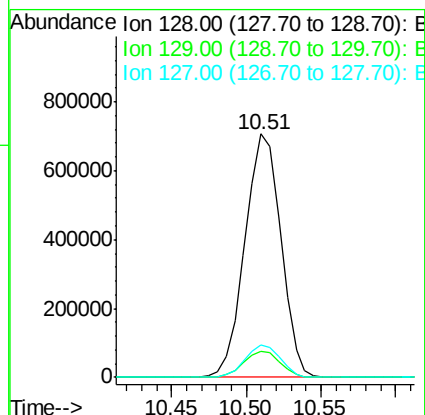
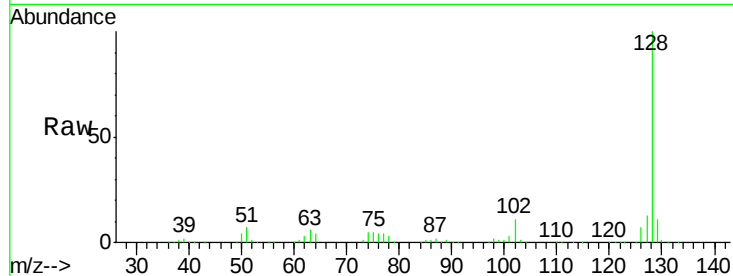
#28
Naphthalene
Concen: 97.73 ng/ul
RT: 10.51 min Scan# 1330
Delta R.T. 0.01 min
Lab File: BM001866.D
Acq: 07 Jul 2015 14:01

Instrument :
BNA_M
ClientSampleId :
G93K2

Tgt Ion:128 Resp: 1180441
Ion Ratio Lower Upper
128 100
129 10.8 8.7 13.1
127 13.1 10.0 15.0

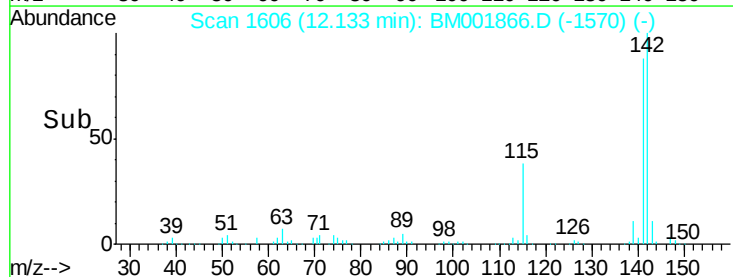
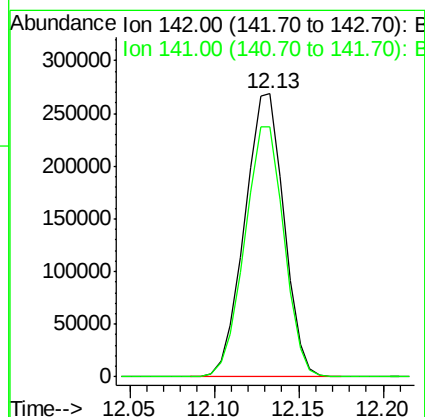
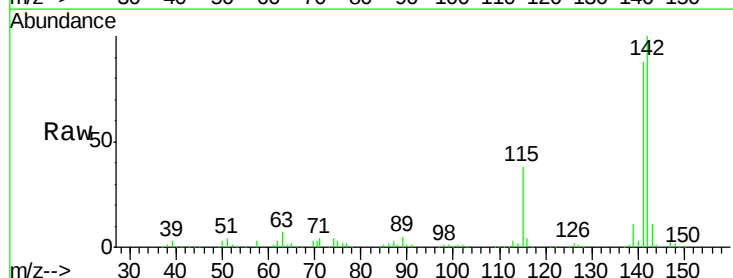
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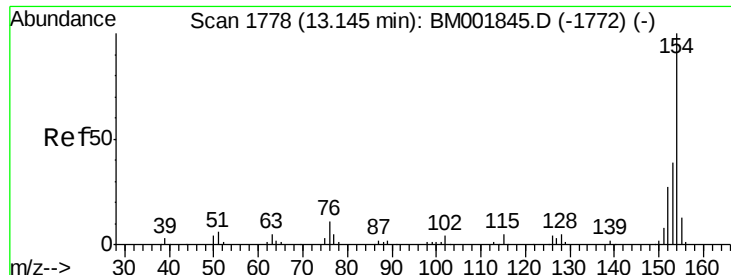
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#34
2-Methylnaphthalene
Concen: 50.03 ng/ul
RT: 12.13 min Scan# 1606
Delta R.T. 0.01 min
Lab File: BM001866.D
Acq: 07 Jul 2015 14:01

Tgt Ion:142 Resp: 436975
Ion Ratio Lower Upper
142 100
141 88.2 71.6 107.4





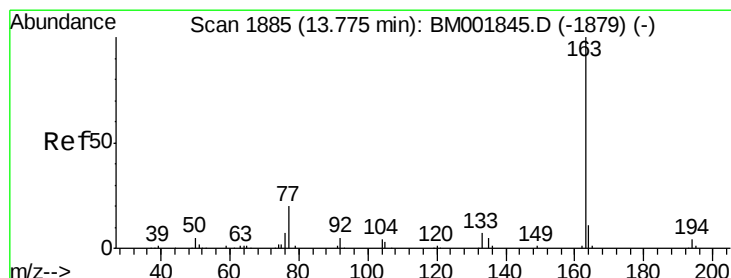
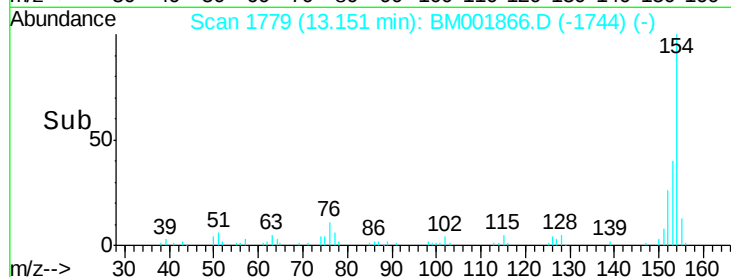
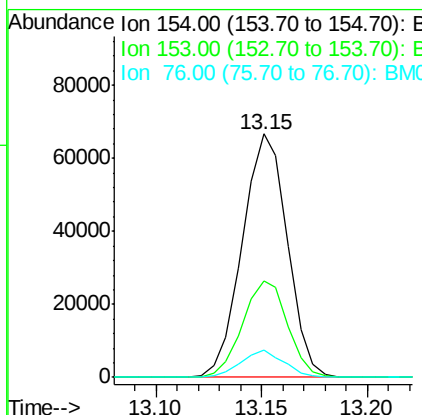
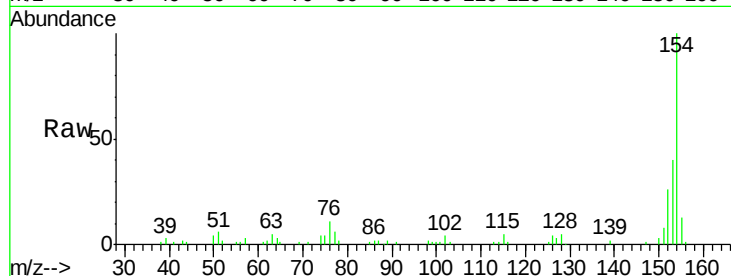
#40
 1,1'-Biphenyl
 Concen: 8.82 ng/ul
 RT: 13.15 min Scan# 1779
 Delta R.T. 0.01 min
 Lab File: BM001866.D
 Acq: 07 Jul 2015 14:01

Instrument :
 BNA_M
 ClientSampleId :
 G93K2

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.8	32.5	48.7
76	11.1	9.0	13.6

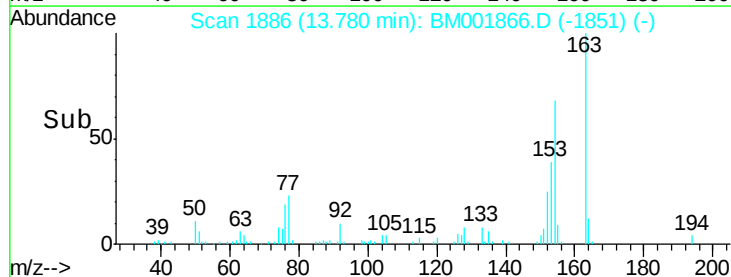
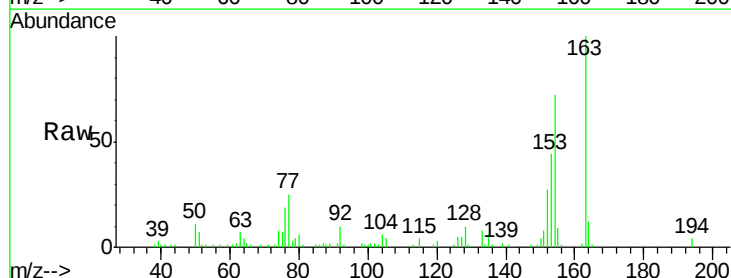
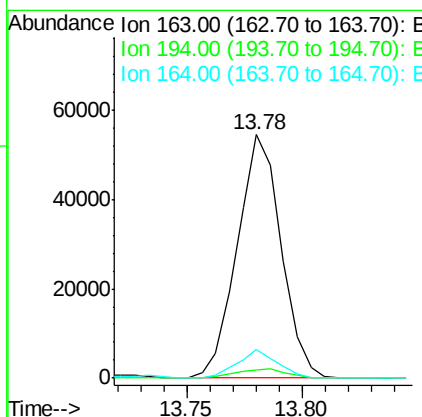
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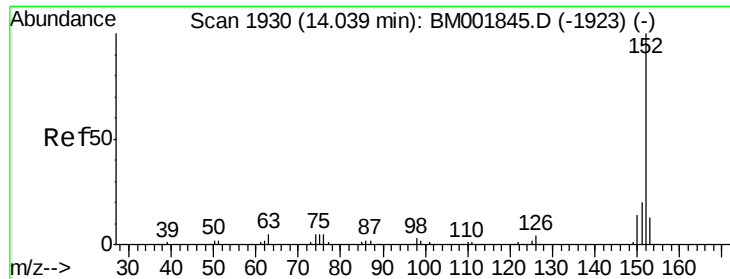
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#44
 Dimethylphthalate
 Concen: 6.50 ng/ul
 RT: 13.78 min Scan# 1886
 Delta R.T. 0.01 min
 Lab File: BM001866.D
 Acq: 07 Jul 2015 14:01

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.6	5.4#
164	11.6	8.0	12.0





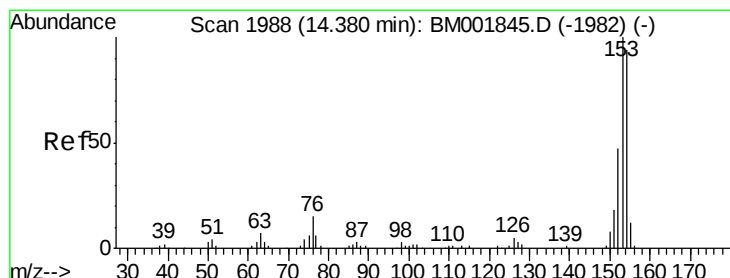
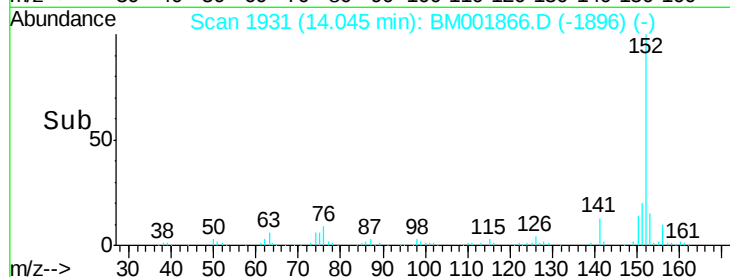
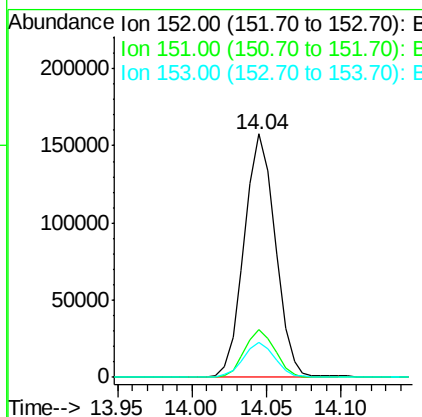
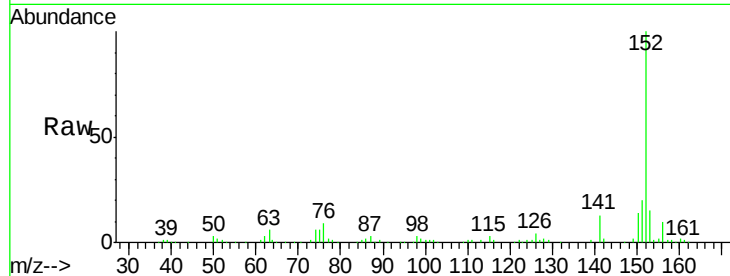
#47
Acenaphthylene
Concen: 16.90 ng/ul
RT: 14.04 min Scan# 1931
Delta R.T. 0.01 min
Lab File: BM001866.D
Acq: 07 Jul 2015 14:01

Instrument :
BNA_M
ClientSampleId :
G93K2

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	229210		
151	19.6	15.9	23.9	
153	14.6	10.0	15.0	

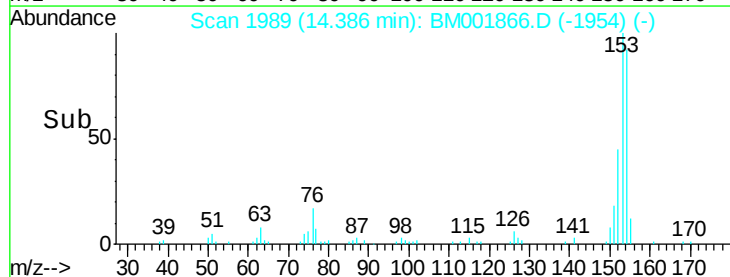
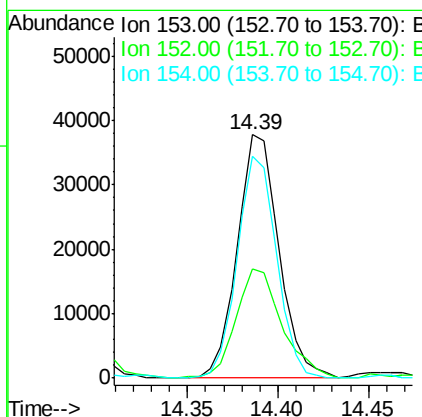
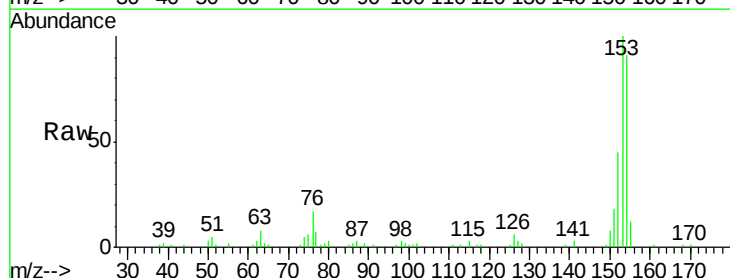
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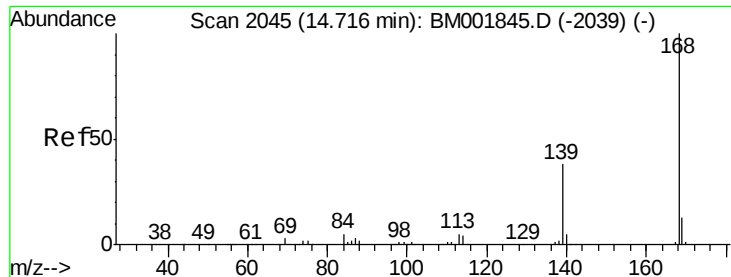
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#49
Acenaphthene
Concen: 6.67 ng/ul
RT: 14.39 min Scan# 1989
Delta R.T. 0.01 min
Lab File: BM001866.D
Acq: 07 Jul 2015 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
153	100	60407		
152	45.0	36.6	55.0	
154	91.1	72.6	108.8	





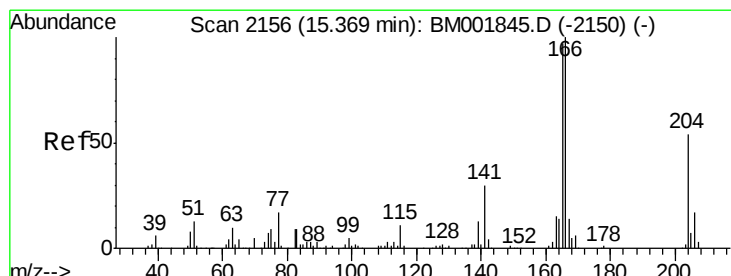
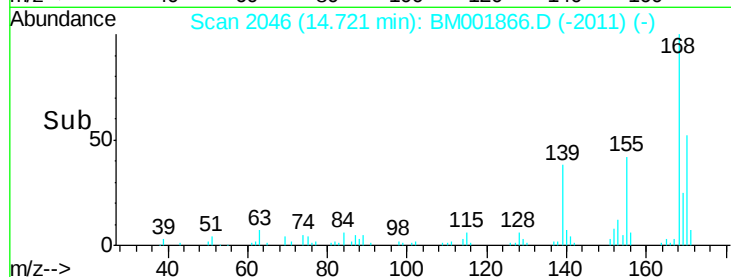
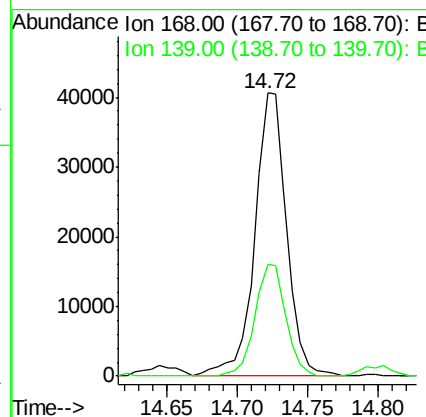
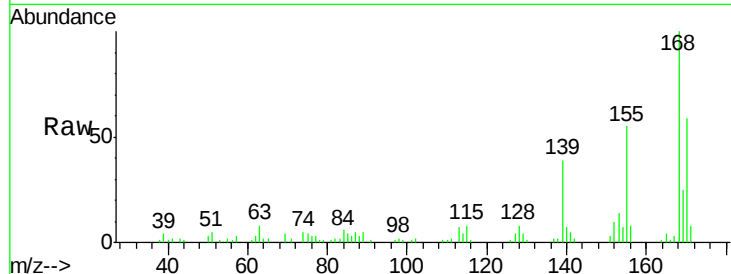
#53
Dibenzenofuran
Concen: 4.97 ng/ul
RT: 14.72 min Scan# 2046
Delta R.T. 0.01 min
Lab File: BM001866.D
Acq: 07 Jul 2015 14:01

Instrument :
BNA_M
ClientSampleId :
G93K2

Tgt Ion:168 Resp: 64462
Ion Ratio Lower Upper
168 100
139 39.4 30.1 45.1

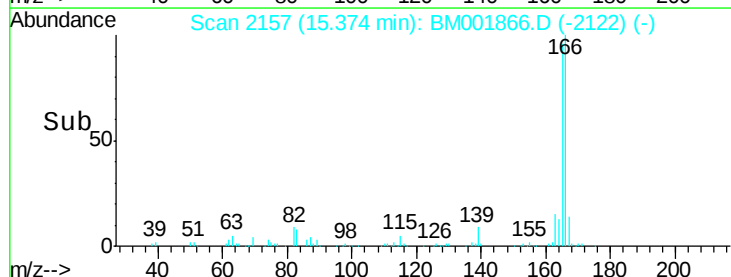
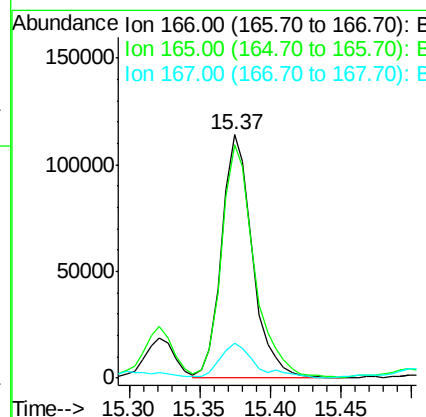
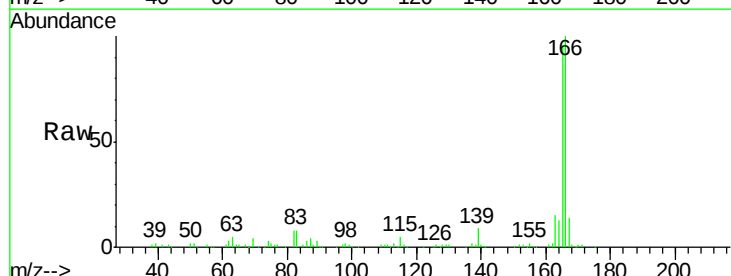
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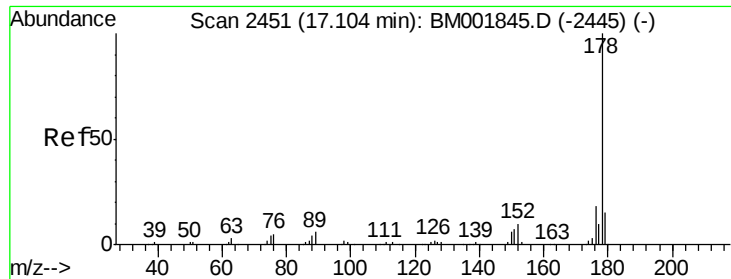
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#58
Fluorene
Concen: 16.03 ng/ul
RT: 15.37 min Scan# 2157
Delta R.T. 0.01 min
Lab File: BM001866.D
Acq: 07 Jul 2015 14:01

Tgt Ion:166 Resp: 173148
Ion Ratio Lower Upper
166 100
165 95.9 77.4 116.2
167 14.3 11.3 16.9





#69

Phenanthrene

Concen: 75.90 ng/ul

RT: 17.12 min Scan# 2454

Delta R.T. 0.02 min

Lab File: BM001866.D

Acq: 07 Jul 2015 14:01

Instrument :

BNA_M

ClientSampleID :

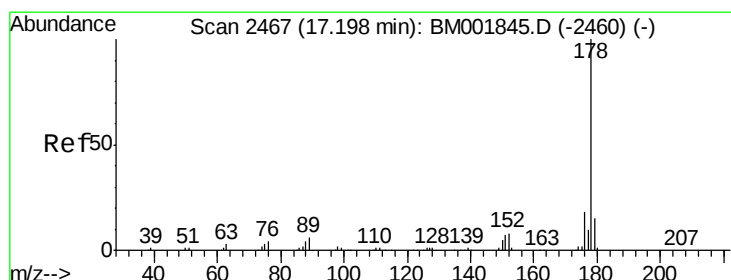
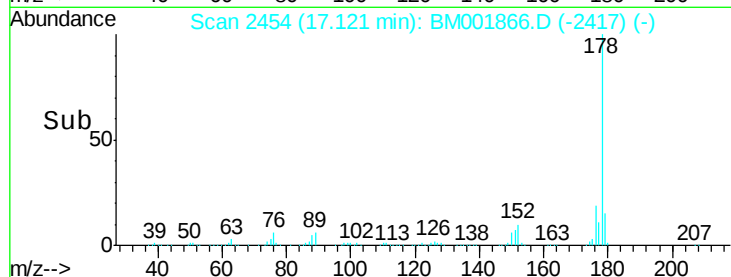
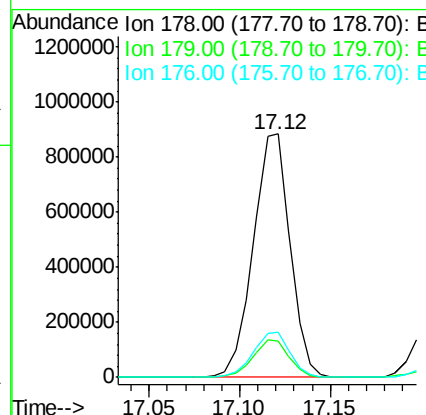
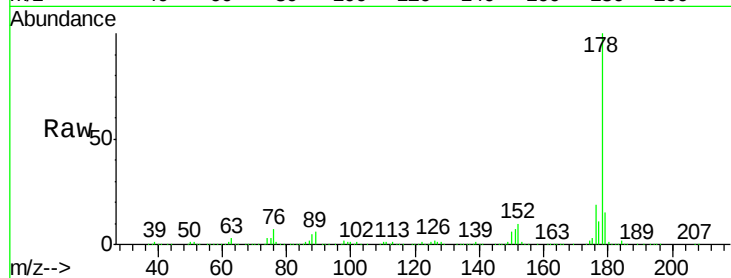
G93K2

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Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.1	11.9	17.9
176	18.6	15.2	22.8



#71

Anthracene

Concen: 16.86 ng/ul

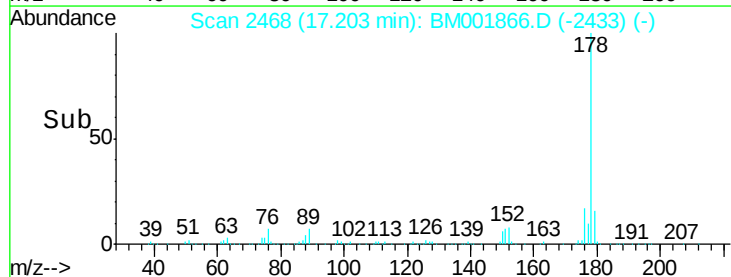
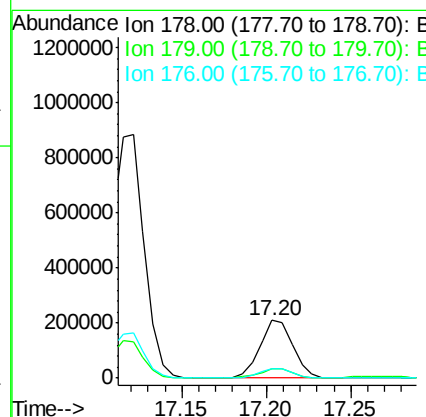
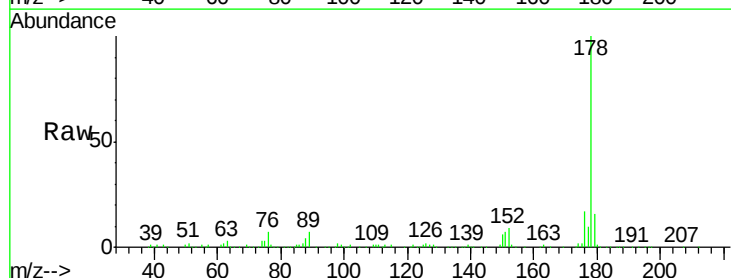
RT: 17.20 min Scan# 2468

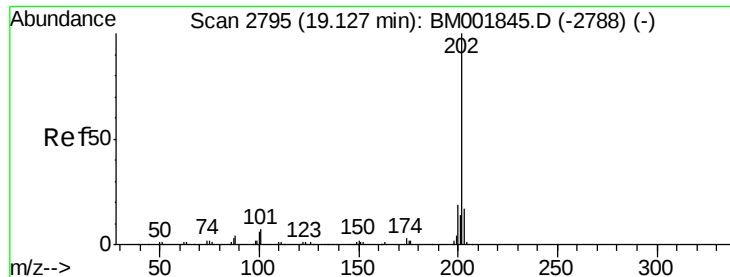
Delta R.T. 0.01 min

Lab File: BM001866.D

Acq: 07 Jul 2015 14:01

Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.0	11.8	17.8
176	17.4	14.4	21.6





#76

Fluoranthene

Concen: 25.78 ng/ul

RT: 19.14 min Scan# 2797

Delta R.T. 0.01 min

Lab File: BM001866.D

Acq: 07 Jul 2015 14:01

Instrument :

BNA_M

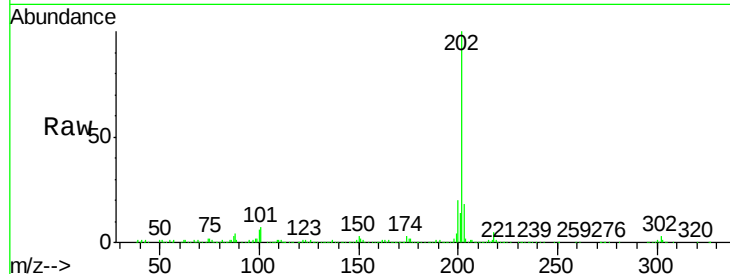
ClientSampleId :

G93K2

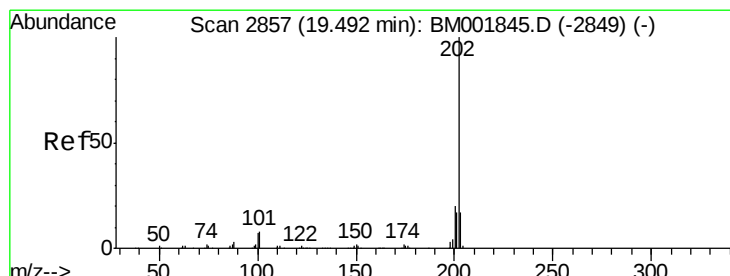
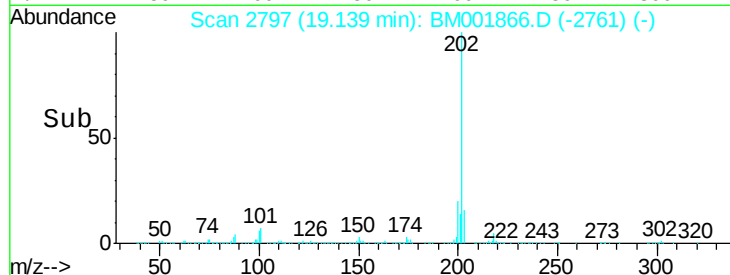
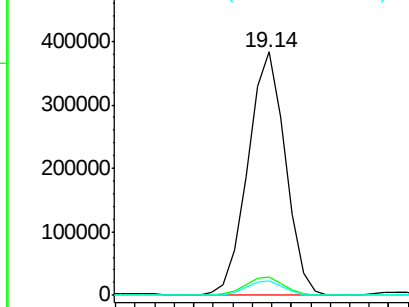
Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	7.5	6.1	9.1
100	6.0	4.8	7.2

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 48.69 ng/ul

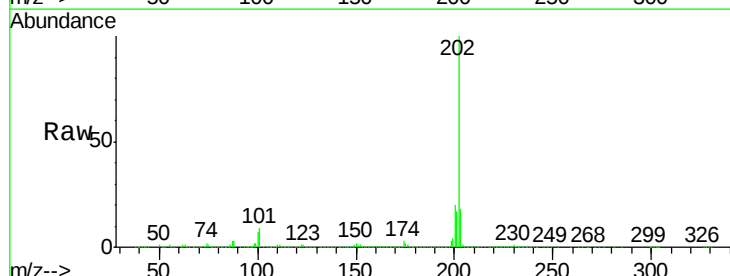
RT: 19.50 min Scan# 2859

Delta R.T. 0.01 min

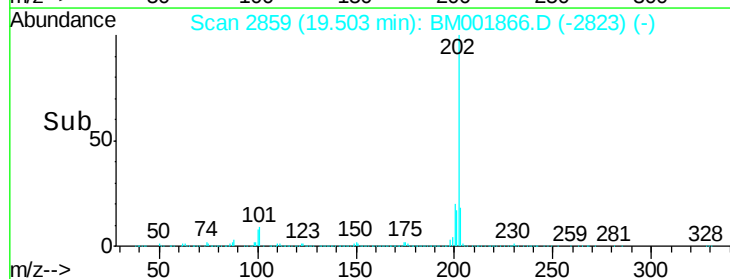
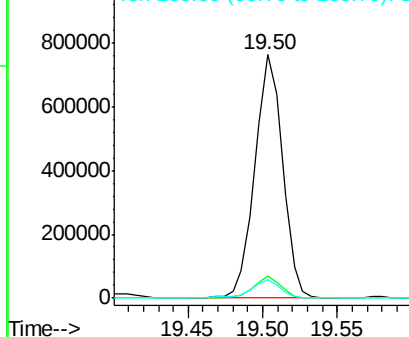
Lab File: BM001866.D

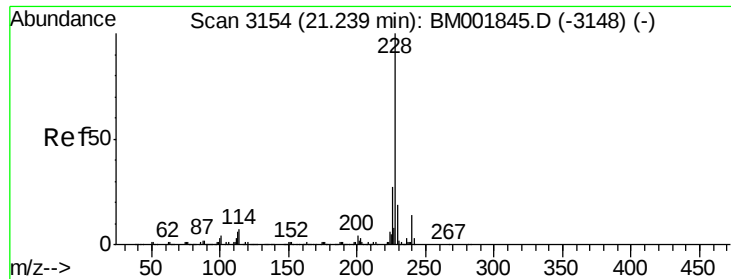
Acq: 07 Jul 2015 14:01

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	8.9	6.9	10.3
100	7.4	6.2	9.2



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B





#82

Benzo(a)anthracene

Concen: 13.55 ng/ul

RT: 21.25 min Scan# 3156

Delta R.T. 0.01 min

Lab File: BM001866.D

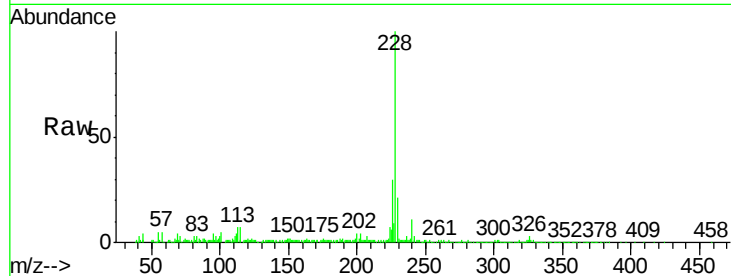
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Instrument :

BNA_M

ClientSampleId :

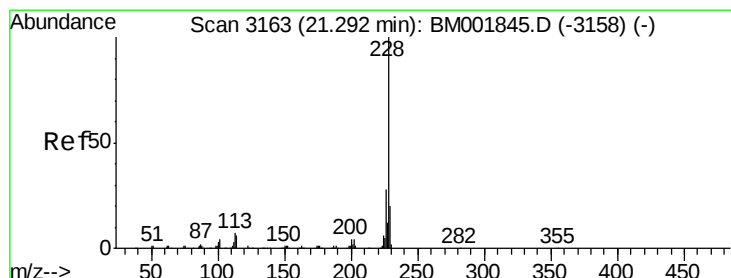
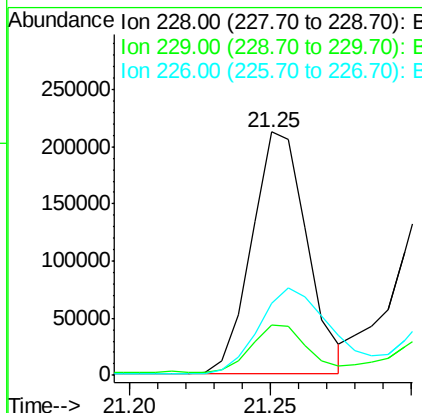
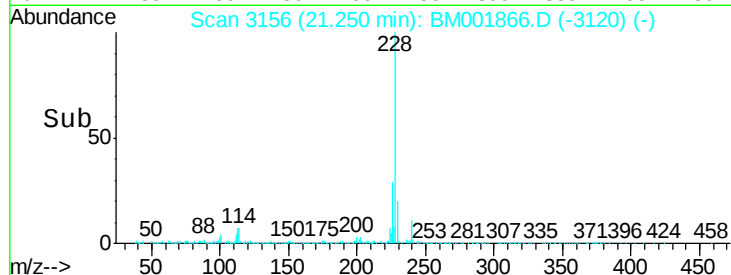
G93K2



Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.8	15.4	23.0
226	29.8	20.6	30.8

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#84

Chrysene

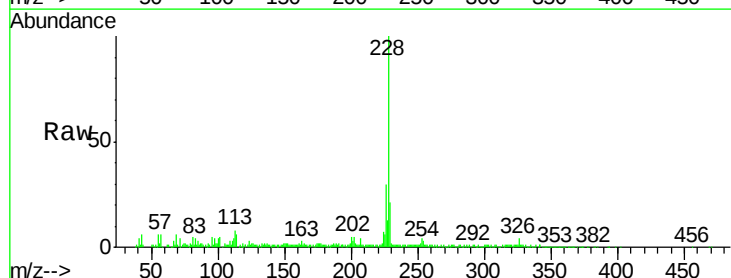
Concen: 11.47 ng/ul

RT: 21.30 min Scan# 3165

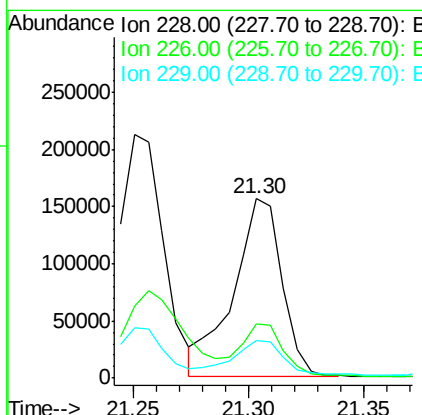
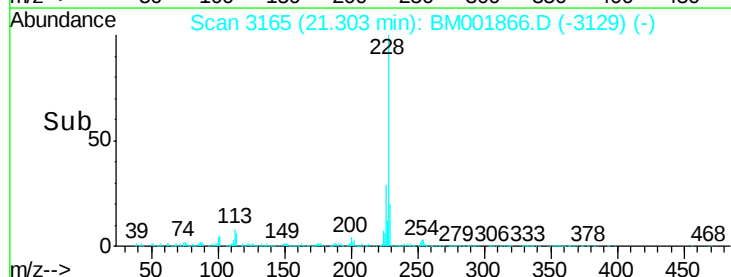
Delta R.T. 0.01 min

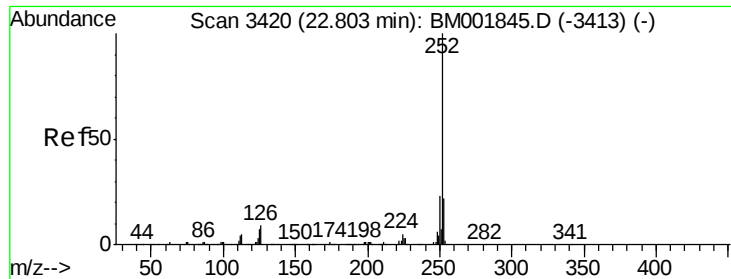
Lab File: BM001866.D

Acq: 07 Jul 2015 14:01



Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.0	34.4
229	21.2	15.4	23.2





#87

Benzo(b)fluoranthene

Concen: 9.79 ng/ul m

RT: 22.83 min Scan# 3425

Delta R.T. 0.03 min

Lab File: BM001866.D

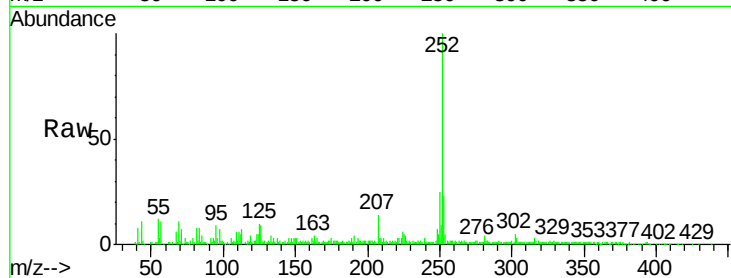
Acq: 07 Jul 2015 14:01

Instrument :

BNA_M

ClientSampleId :

G93K2



Tgt Ion: 252 Resp: 215131

Ion Ratio Lower Upper

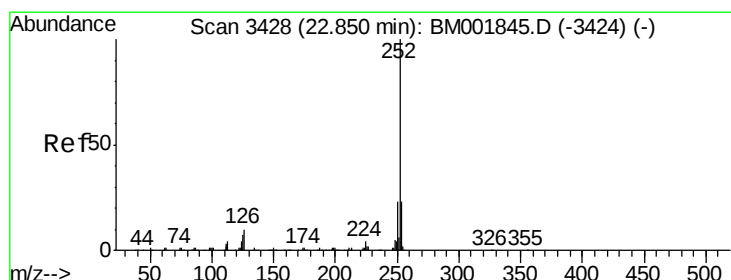
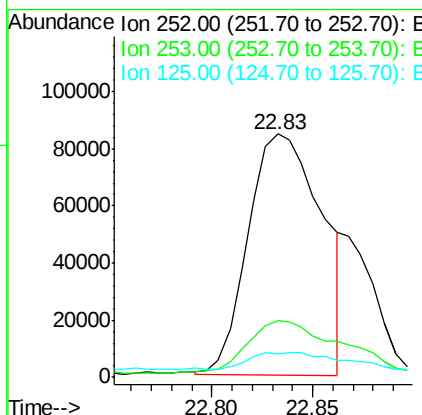
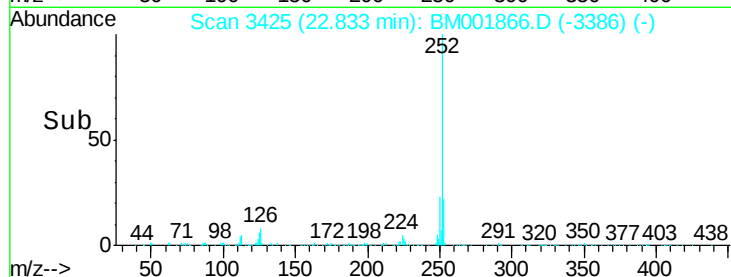
252 100

253 23.4 17.8 26.6

125 9.8 5.3 7.9#

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 2.59 ng/ul m

RT: 22.86 min Scan# 3430

Delta R.T. 0.01 min

Lab File: BM001866.D

Acq: 07 Jul 2015 14:01

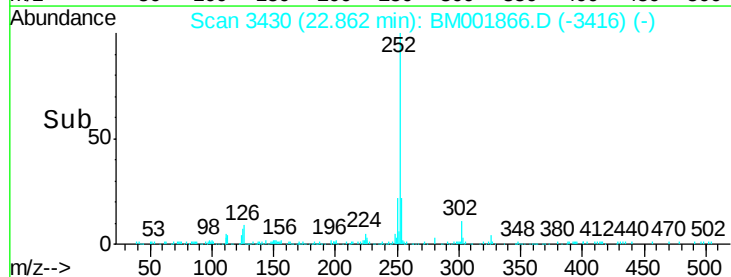
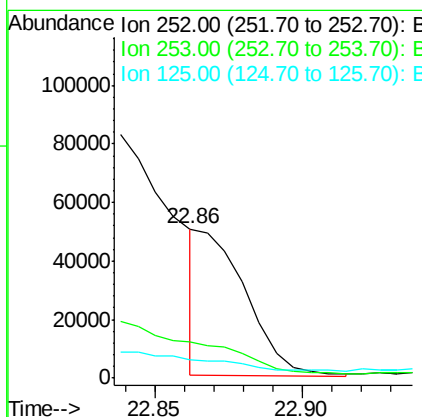
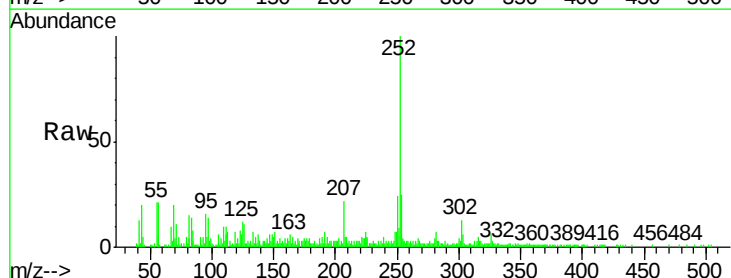
Tgt Ion: 252 Resp: 54993

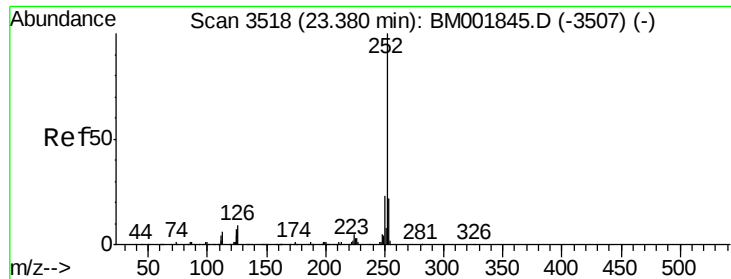
Ion Ratio Lower Upper

252 100

253 24.7 17.1 25.7

125 12.1 5.3 7.9#





#90

Benzo(a)pyrene

Concen: 12.66 ng/ul

RT: 23.40 min Scan# 3522

Delta R.T. 0.02 min

Lab File: BM001866.D

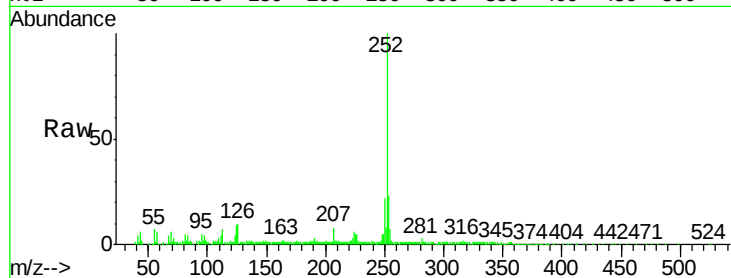
Acq: 07 Jul 2015 14:01

Instrument :

BNA_M

ClientSampleId :

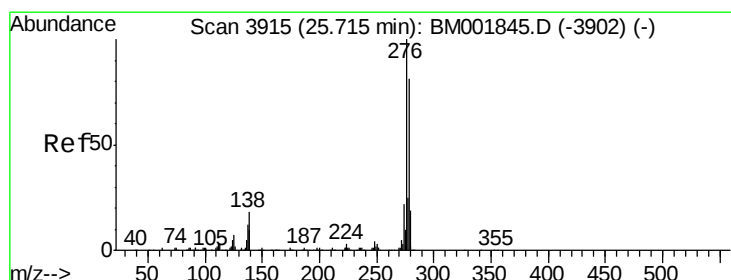
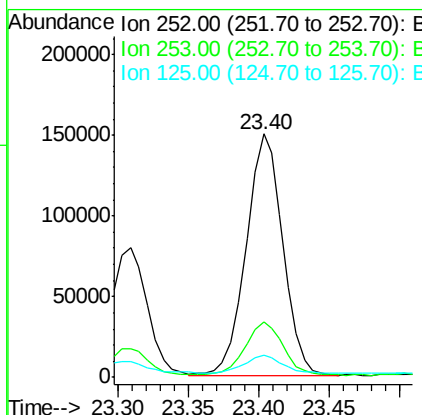
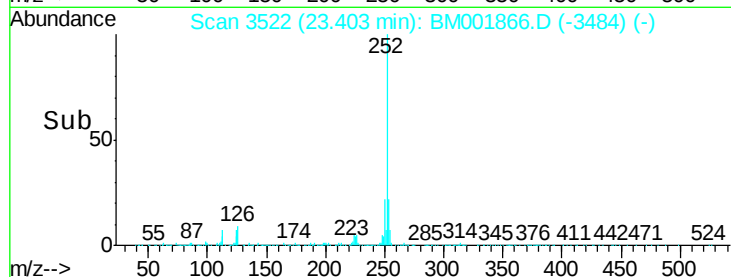
G93K2



Tgt Ion	Ratio	Resp	Lower	Upper
252	100	270797		
253	22.8	17.4	26.0	
125	9.0	6.0	9.0	

Manual Integrations
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#91

Indeno(1,2,3-cd)pyrene

Concen: 4.43 ng/ul

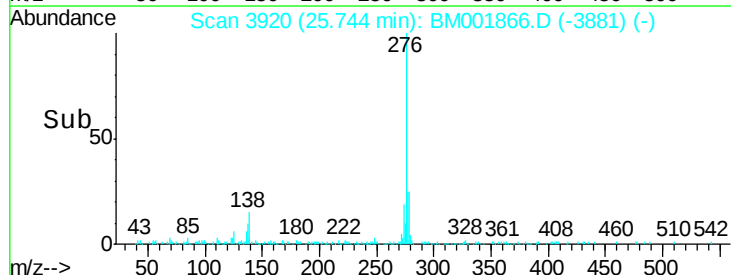
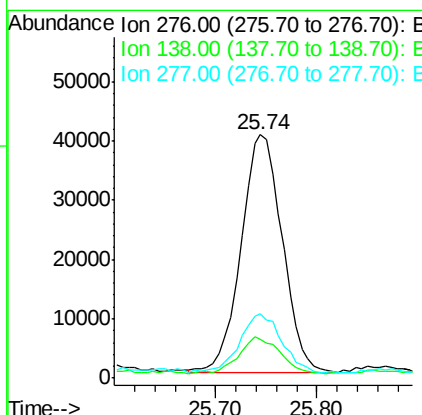
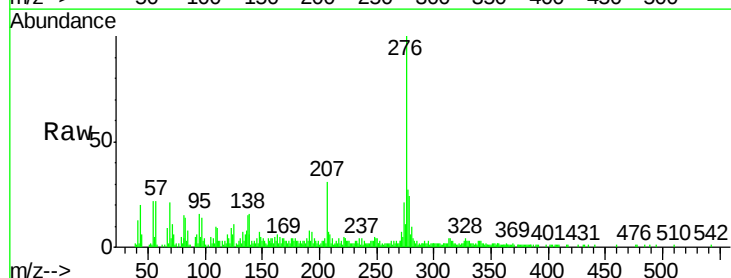
RT: 25.74 min Scan# 3920

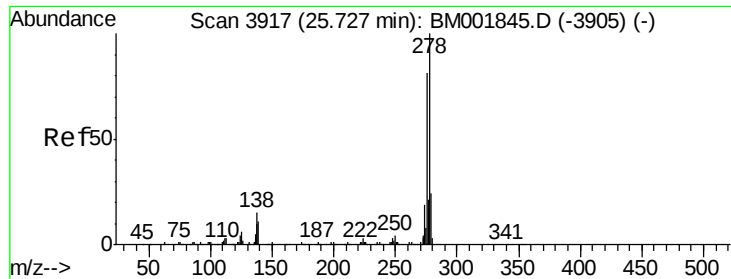
Delta R.T. 0.03 min

Lab File: BM001866.D

Acq: 07 Jul 2015 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	112343		
138	15.7	14.7	22.1	
277	26.5	19.7	29.5	





#92

Dibenzo(a,h)anthracene

Concen: 1.53 ng/ul

RT: 25.76 min Scan# 3922

Delta R.T. 0.03 min

Lab File: BM001866.D

Acq: 07 Jul 2015 14:01

Instrument :

BNA_M

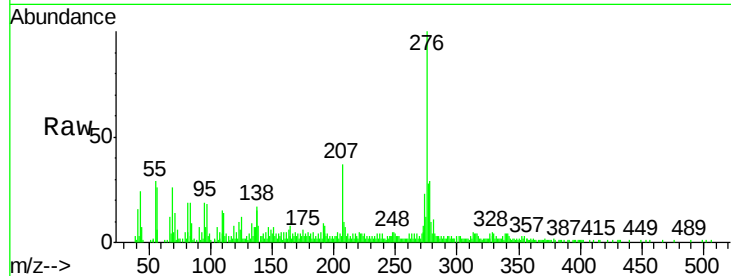
ClientSampleId :

G93K2

Tgt Ion:	278	Resp:	32624
Ion Ratio	Lower	Upper	
278	100		
139	26.3	9.2	13.8#
279	35.1	19.1	28.7#

Manual Integrations
APPROVED

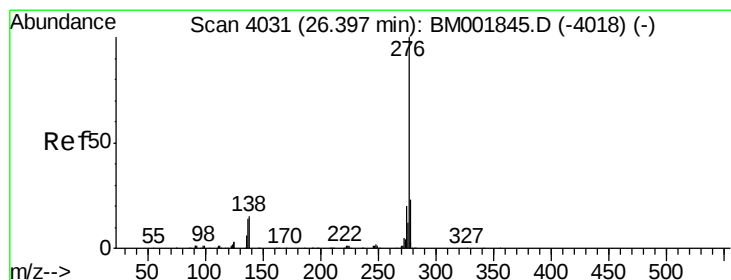
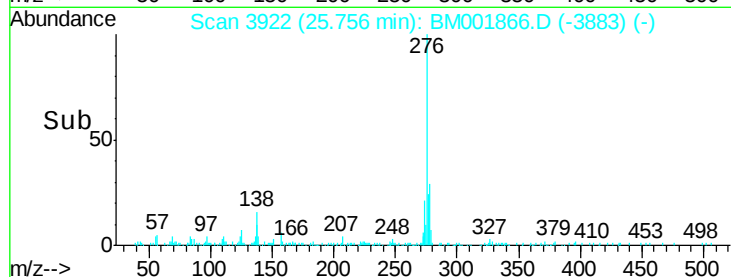
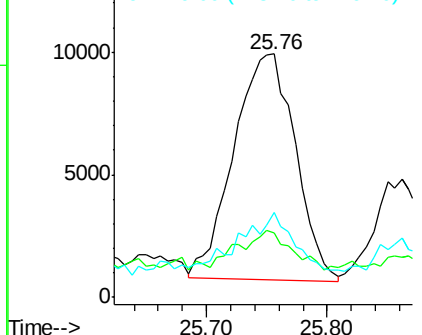
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Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#93

Benzo(g,h,i)perylene

Concen: 5.54 ng/ul

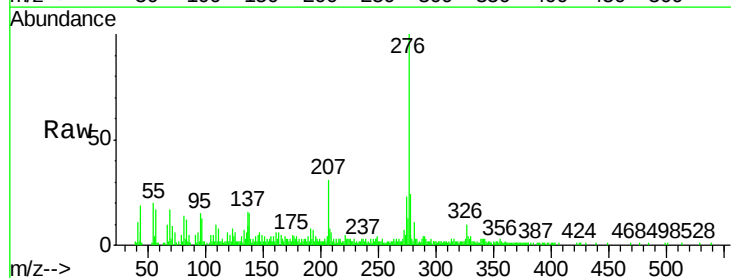
RT: 26.44 min Scan# 4039

Delta R.T. 0.04 min

Lab File: BM001866.D

Acq: 07 Jul 2015 14:01

Tgt Ion:	276	Resp:	118106
Ion Ratio	Lower	Upper	
276	100		
138	15.4	12.6	19.0
277	24.3	18.7	28.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

