

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
 Data File : BM014447.D
 Acq On : 01 Mar 2018 23:47
 Operator : SJ/JU
 Sample : J1678-20
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BE5Z3

Manual Integrations
 APPROVED

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Quant Time: Mar 02 11:34:16 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Mar 01 03:03:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	32625	20.00	ng/ul	0.00
18) Naphthalene-d8	10.29	136	183393	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.18	164	160203	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.94	188	468835	20.00	ng/ul	0.01
75) Chrysene-d12	21.18	240	773090	20.00	ng/ul	0.03
83) Perylene-d12	23.40	264	642248	20.00	ng/ul	0.08

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.10	96	2277	2.99	ng/uL	0.01
5) Phenol-d5	6.73	99	91343	33.13	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	6.87	67	46026	27.57	ng/ul	0.00
9) 2-Chlorophenol-d4	7.06	132	71803	33.96	ng/ul	0.00
13) 4-Methylphenol-d8	8.25	113	82002	33.99	ng/ul	0.01
19) Nitrobenzene-d5	8.68	128	38169	28.16	ng/ul	0.01
22) 2-Nitrophenol-d4	9.39	143	41493	29.58	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.95	165	94414	32.50	ng/ul	0.02
29) 4-Chloroaniline-d4	10.46	131	65066	22.73	ng/ul	0.01
43) Dimethylphthalate-d6	13.60	166	358342	27.09	ng/ul	0.00
46) Acenaphthylene-d8	13.87	160	508492	31.17	ng/ul	0.00
51) 4-Nitrophenol-d4	14.48	143	60242	32.98	ng/ul	0.05
57) Fluorene-d10	15.19	176	386548	32.61	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.36	200	3292	1.17	ng/ul	0.02
70) Anthracene-d10	17.04	188	726648	32.12	ng/ul	0.01
76) Pyrene-d10	19.36	212	1060421	26.59	ng/ul	0.02
87) Benzo(a)pyrene-d12	23.26	264	968421	30.98	ng/ul	0.07

Target Compounds

					Ovalue	
28) Naphthalene	10.34	128	37646	3.997	ng/ul#	95
30) 4-Chloroaniline	10.48	127	46489	15.925	ng/ul	91
40) 1,1'-Biphenyl	13.00	154	12905	1.046	ng/ul#	75
44) Dimethylphthalate	13.65	163	58795	4.507	ng/ul	99
47) Acenaphthylene	13.90	152	155690	10.097	ng/ul	97
49) Acenaphthene	14.24	153	15018	1.383	ng/ul#	92
53) Dibenzofuran	14.59	168	39804	2.445	ng/ul#	86
56) Diethylphthalate	15.02	149	38868	2.674	ng/ul	96
58) Fluorene	15.24	166	30192	2.148	ng/ul#	95
69) Phenanthrene	16.99	178	1315606	48.704	ng/ul	99
71) Anthracene	17.08	178	158474	5.834	ng/ul	97
72) Carbazole	17.37	167	137477	6.018	ng/ul#	96
74) Fluoranthene	19.03	202	2450865	75.943	ng/ul#	92
77) Pyrene	19.40	202	2218624	43.183	ng/ul#	95
80) Benzo(a)anthracene	21.16	228	736928	15.274	ng/ul#	90
81) Bis(2-ethylhexyl)phthalate	21.09	149	321240	10.559	ng/ul	99
82) Chrysene	21.22	228	1242868	27.613	ng/ul#	94
85) Benzo(b)fluoranthene	22.74	252	1597821	37.155	ng/ul#	88
86) Benzo(k)fluoranthene	22.77	252	379677m	9.286	ng/ul	
88) Benzo(a)pyrene	23.30	252	739086	19.233	ng/ul#	84
89) Indeno(1,2,3-cd)pyrene	25.61	276	539864	14.478	ng/ul#	91
90) Dibenz(a,h)anthracene	25.60	278	126665	4.088	ng/ul#	55
91) Benzo(g,h,i)perylene	26.29	276	447003m	14.797	ng/ul	

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Instrument :
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ClientSampleId :
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Quant Time: Mar 02 11:34:16 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Mar 01 03:03:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

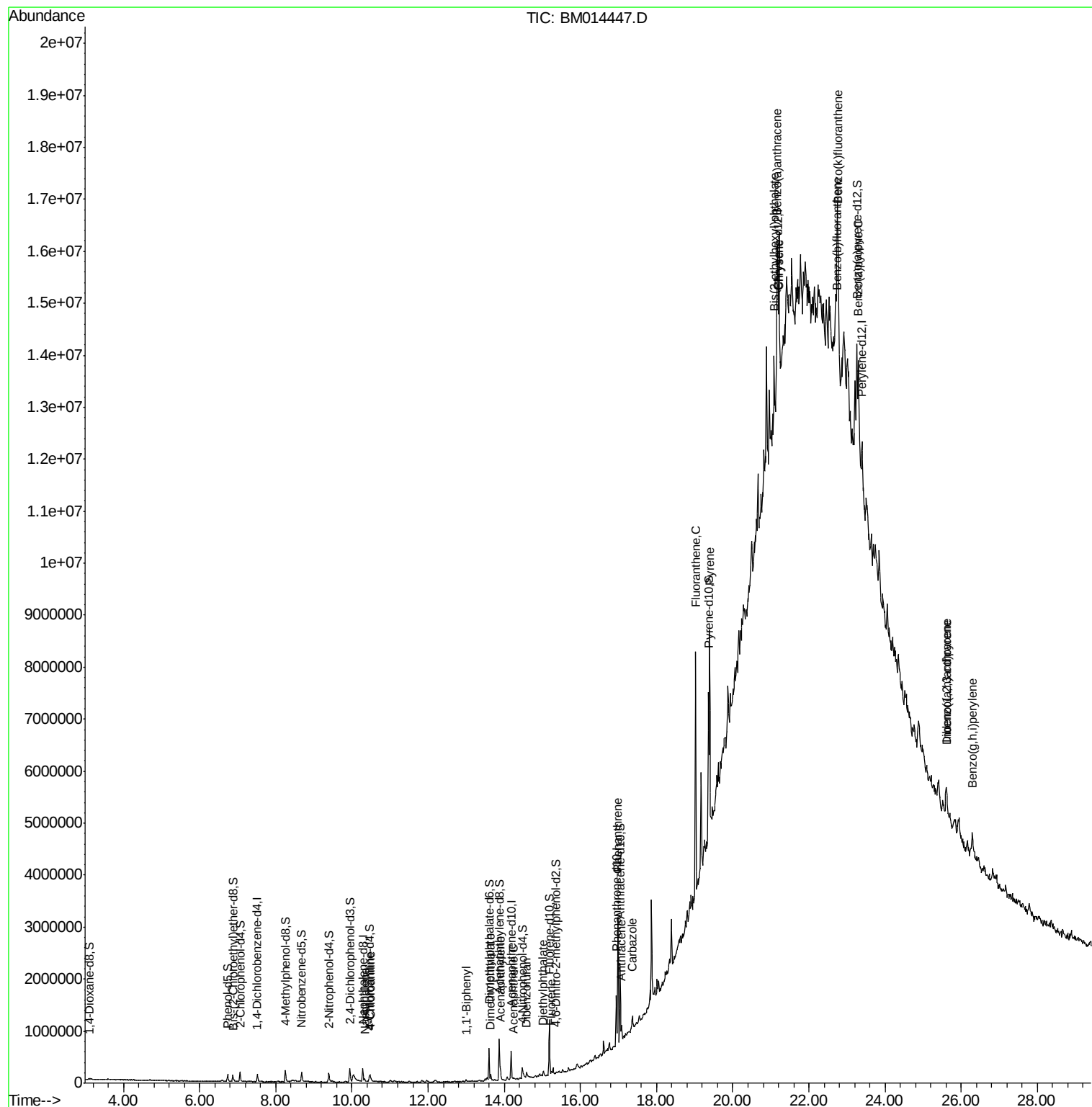
Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
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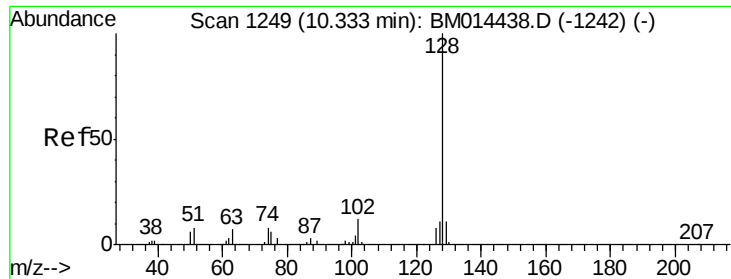
Instrument :
BNA_M
ClientSampleId :
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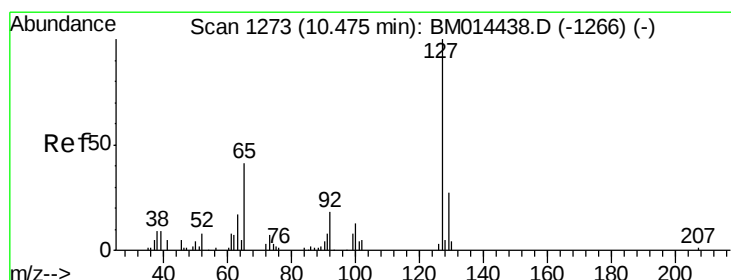
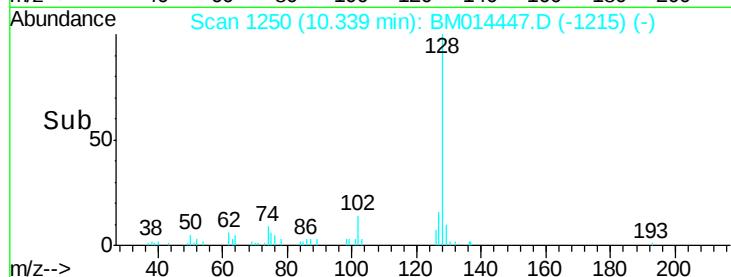
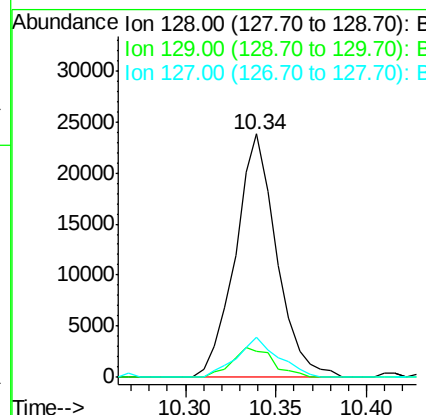
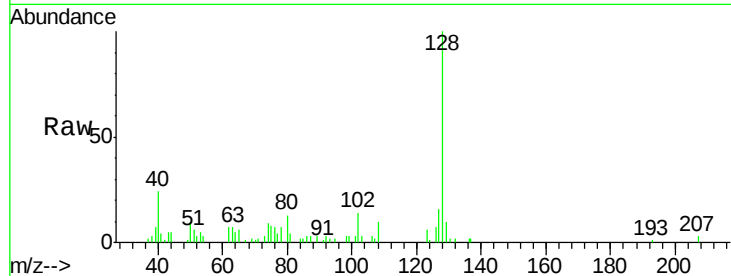
#28
Naphthalene
Concen: 3.997 ng/ul
RT: 10.34 min Scan# 1250
Delta R.T. 0.01 min
Lab File: BM014447.D
Acq: 01 Mar 2018 23:47

Instrument :
BNA_M
ClientSampleId :
BE5Z3

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.8	13.2
127	16.4	10.6	16.0

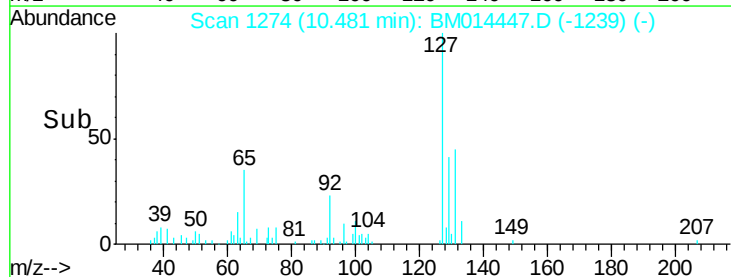
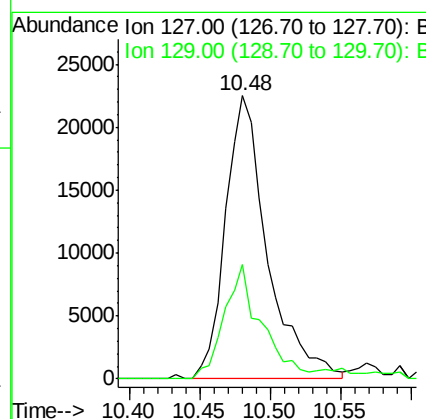
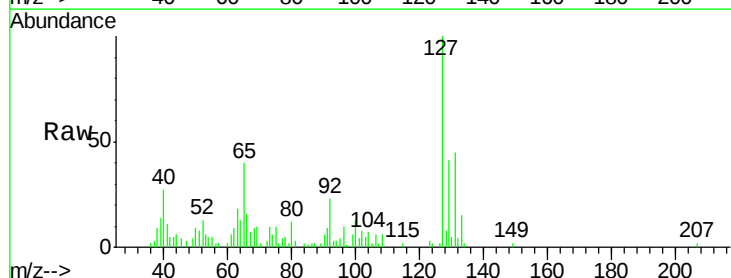
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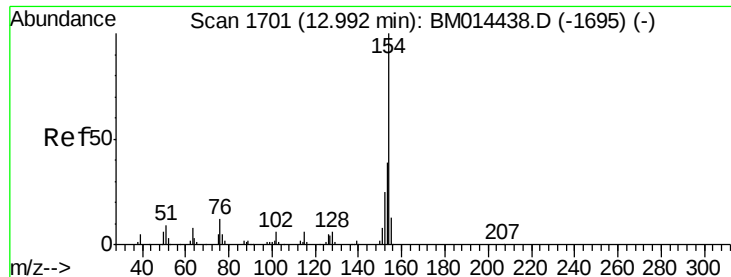
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#30
4-Chloroaniline
Concen: 15.925 ng/ul
RT: 10.48 min Scan# 1274
Delta R.T. 0.01 min
Lab File: BM014447.D
Acq: 01 Mar 2018 23:47

Tgt Ion	Ratio	Lower	Upper
127	100		
129	40.6	28.4	42.6





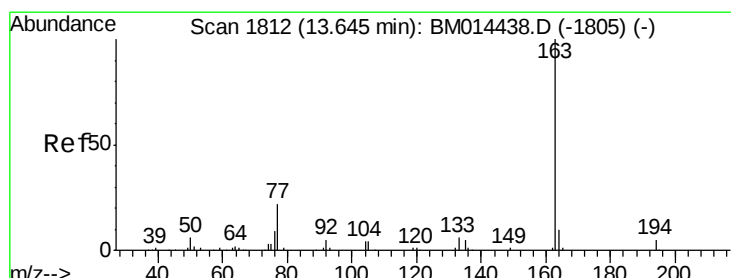
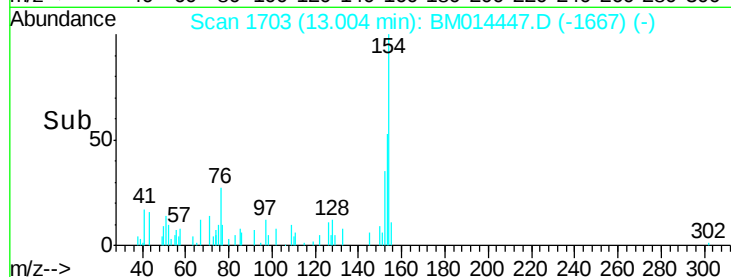
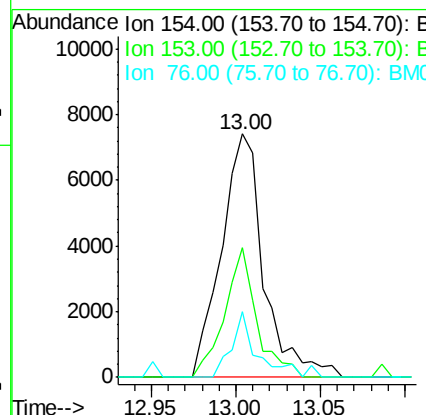
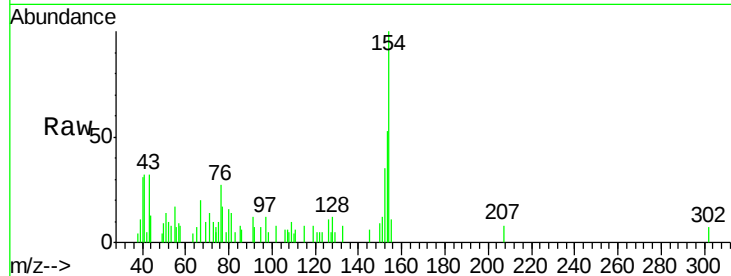
#40
1,1'-Biphenyl
Concen: 1.046 ng/ul
RT: 13.00 min Scan# 1703
Delta R.T. 0.01 min
Lab File: BM014447.D
Acq: 01 Mar 2018 23:47

Instrument :
BNA_M
ClientSampleId :
BE5Z3

Tot Ion	Ratio	Lower	Upper
154	100		
153	53.3	32.6	48.8#
76	27.1	8.5	12.7#

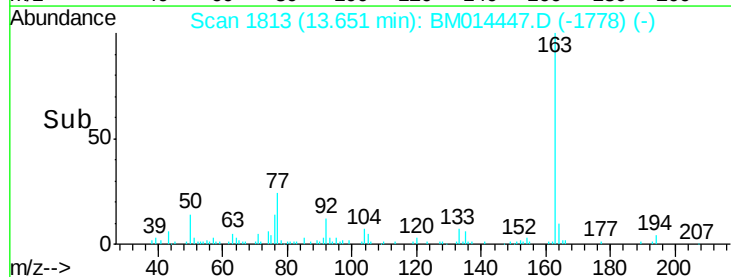
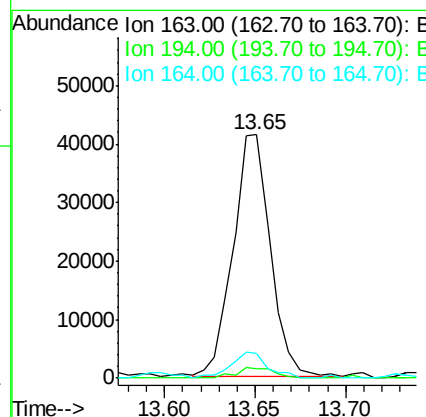
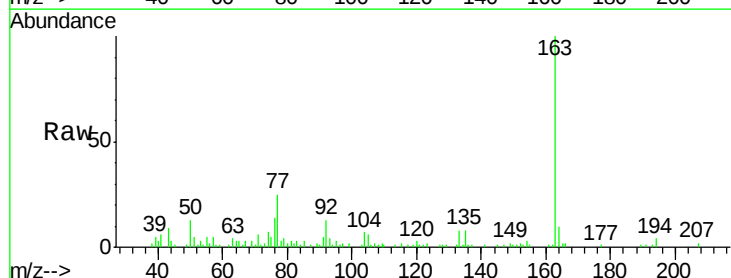
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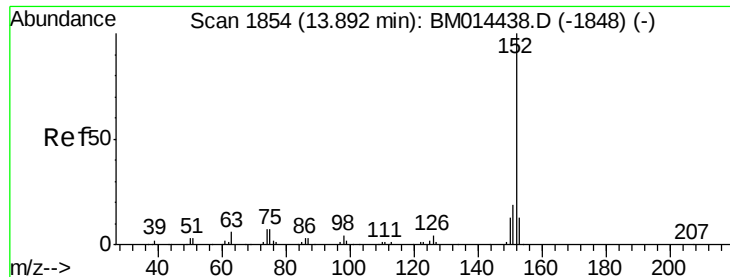
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#44
Dimethylphthalate
Concen: 4.507 ng/ul
RT: 13.65 min Scan# 1813
Delta R.T. 0.01 min
Lab File: BM014447.D
Acq: 01 Mar 2018 23:47

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.5	5.3
164	10.2	8.2	12.4





#47

Acenaphthylene

Concen: 10.097 ng/ul

RT: 13.90 min Scan# 1855

Delta R.T. 0.01 min

Lab File: BM014447.D

Acq: 01 Mar 2018 23:47

Instrument :

BNA_M

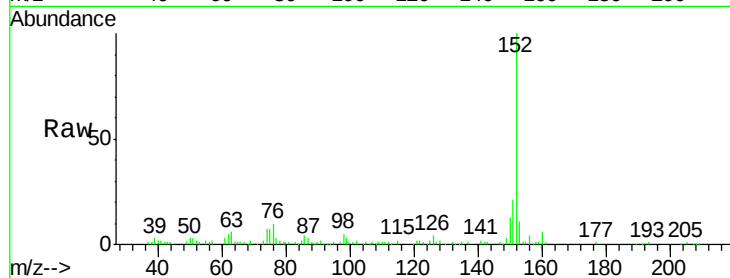
ClientSampled :

BE5Z3

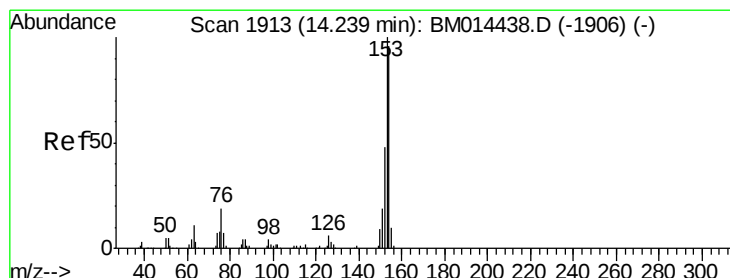
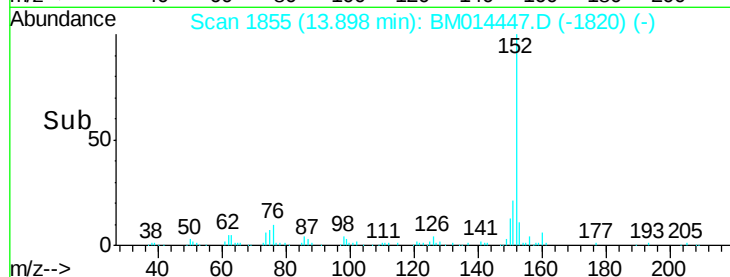
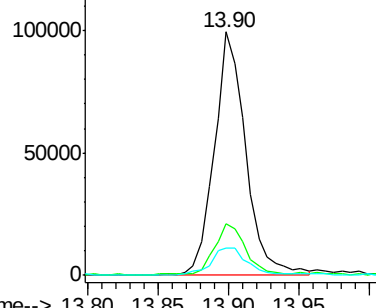
Tot Ion:	152	Resp:	155690
Ion Ratio	Lower	Upper	
152	100		
151	21.4	16.3	24.5
153	11.5	10.2	15.4

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Acenaphthene

Concen: 1.383 ng/ul

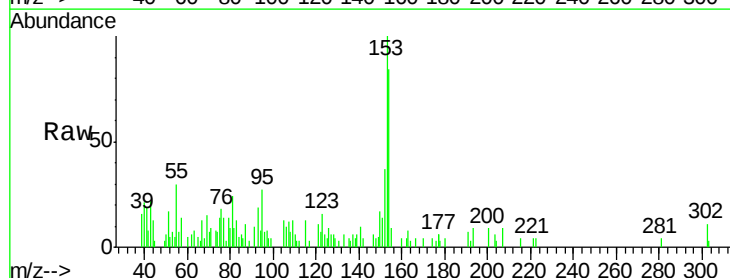
RT: 14.24 min Scan# 1913

Delta R.T. 0.00 min

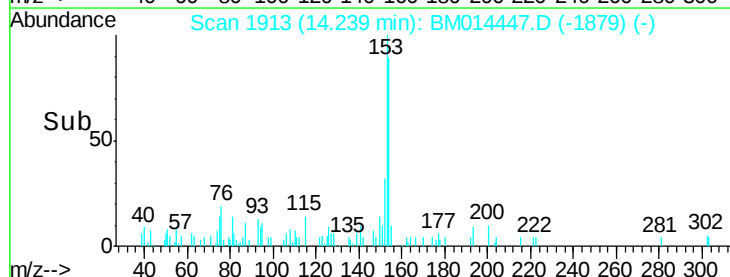
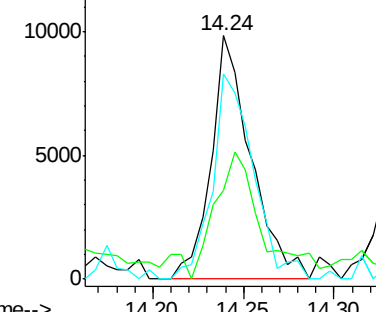
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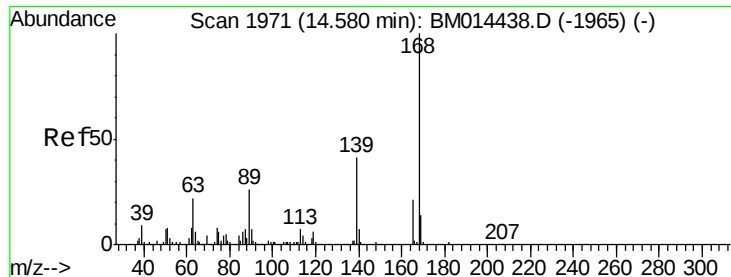
Acq: 01 Mar 2018 23:47

Tgt Ion:	153	Resp:	15018
Ion Ratio	Lower	Upper	
153	100		
152	36.5	37.6	56.4#
154	84.4	70.4	105.6



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E





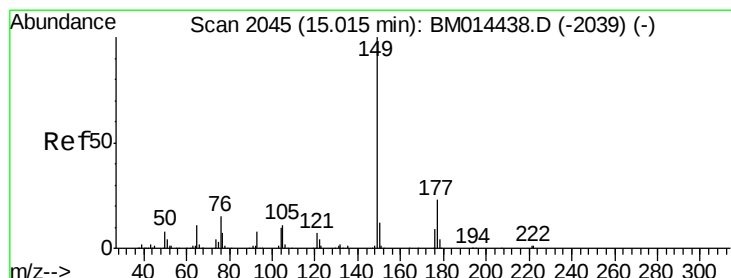
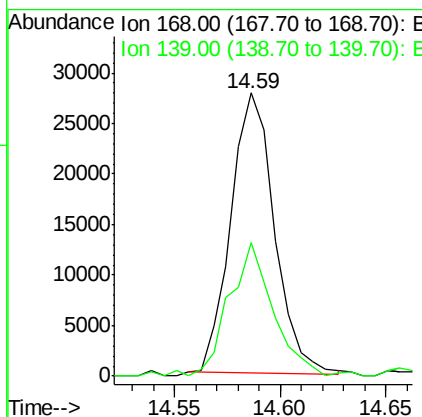
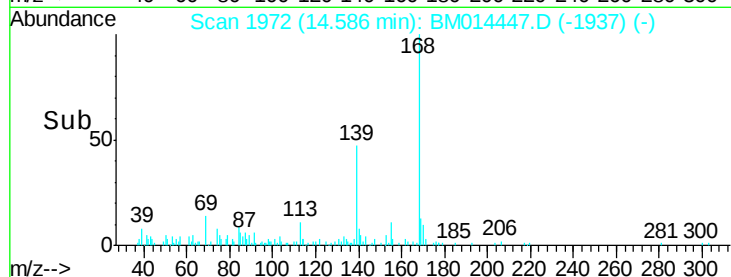
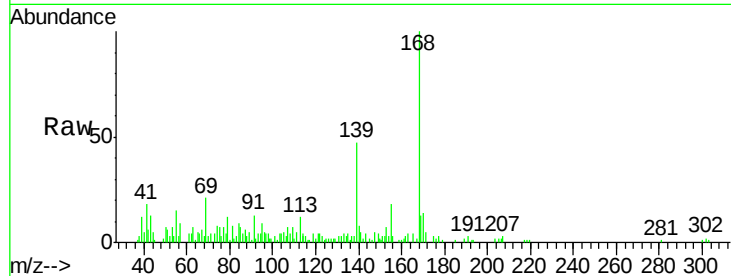
#53
Dibenzofuran
Concen: 2.445 ng/ul
RT: 14.59 min Scan# 1972
Delta R.T. 0.01 min
Lab File: BM014447.D
Acq: 01 Mar 2018 23:47

Instrument :
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Tot Ion:168 Resp: 39804
Ion Ratio Lower Upper
168 100
139 47.2 30.8 46.2#

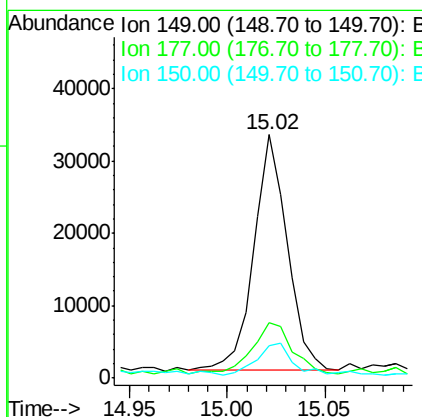
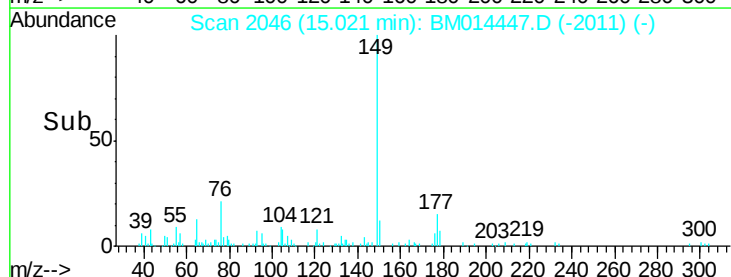
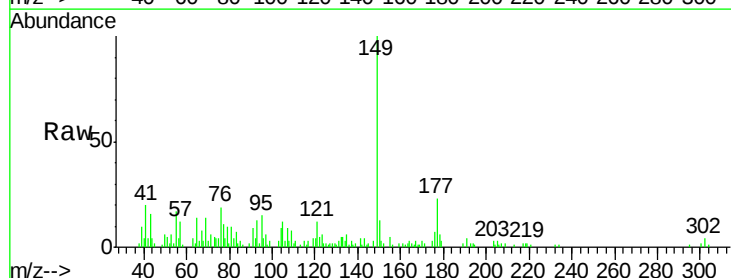
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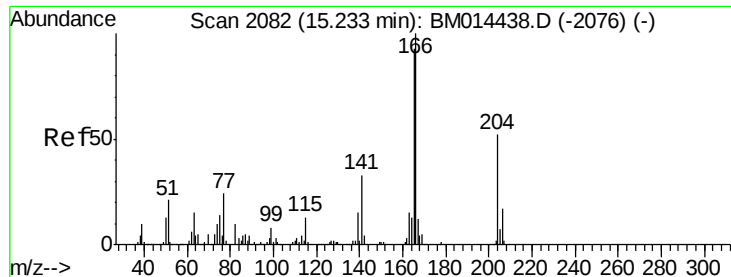
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#56
Diethylphthalate
Concen: 2.674 ng/ul
RT: 15.02 min Scan# 2046
Delta R.T. 0.01 min
Lab File: BM014447.D
Acq: 01 Mar 2018 23:47

Tgt Ion:149 Resp: 38868
Ion Ratio Lower Upper
149 100
177 22.7 20.5 30.7
150 13.2 10.6 15.8





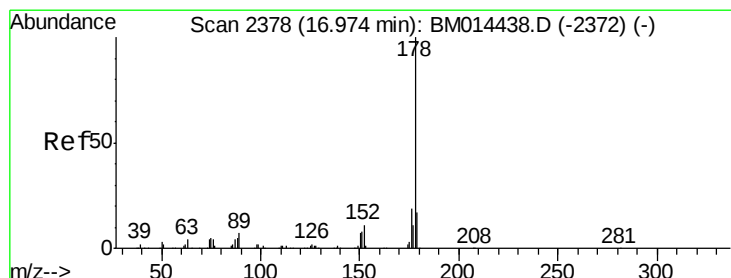
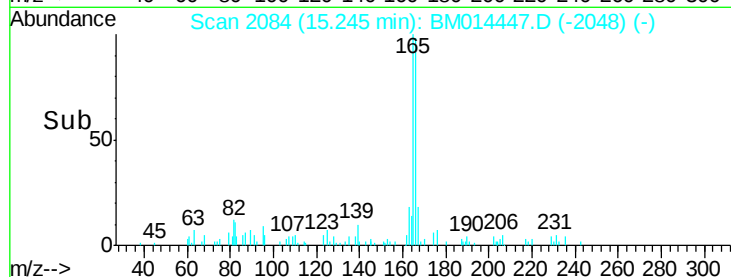
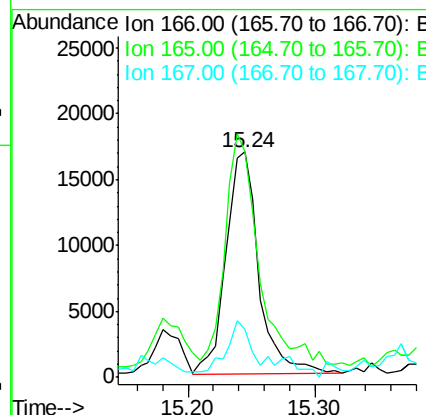
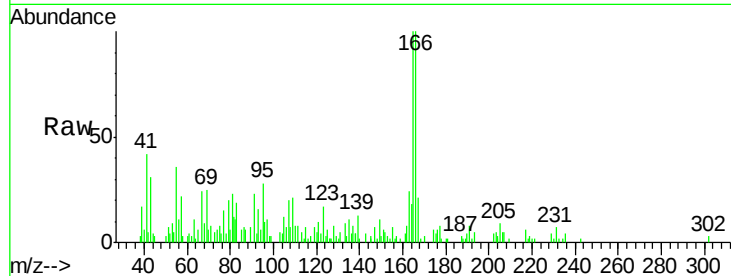
#58
 Fluorene
 Concen: 2.148 ng/ul
 RT: 15.24 min Scan# 2084
 Delta R.T. 0.01 min
 Lab File: BM014447.D
 Acq: 01 Mar 2018 23:47

Instrument :
 BNA_M
 ClientSampleID :
 BE5Z3

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.1	77.9	116.9
167	21.0	10.6	16.0

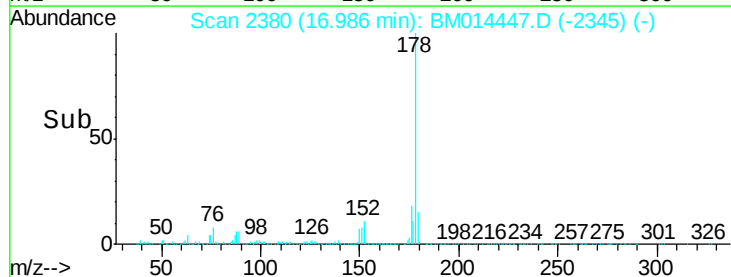
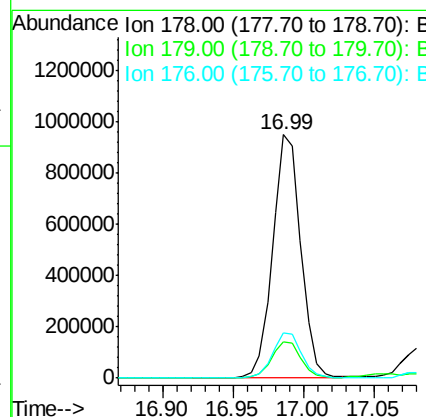
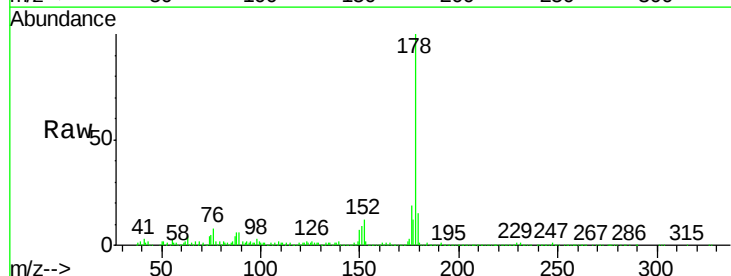
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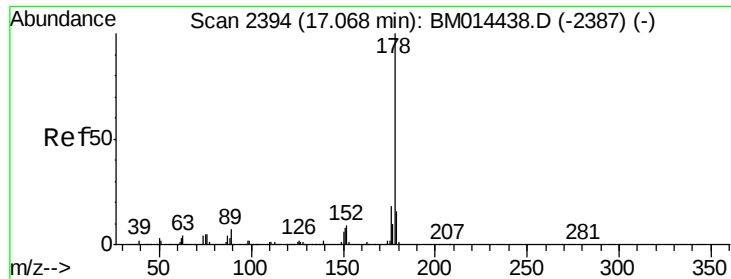
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#69
 Phenanthrene
 Concen: 48.704 ng/ul
 RT: 16.99 min Scan# 2380
 Delta R.T. 0.01 min
 Lab File: BM014447.D
 Acq: 01 Mar 2018 23:47

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.6	19.0
176	18.6	14.9	22.3





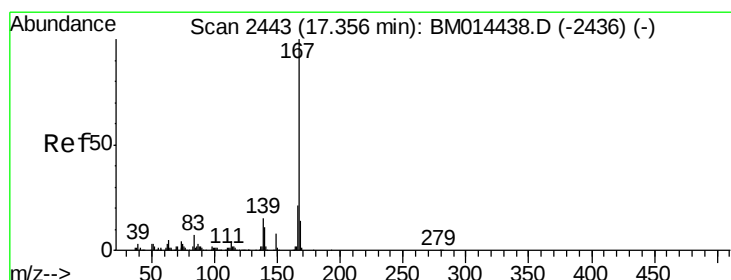
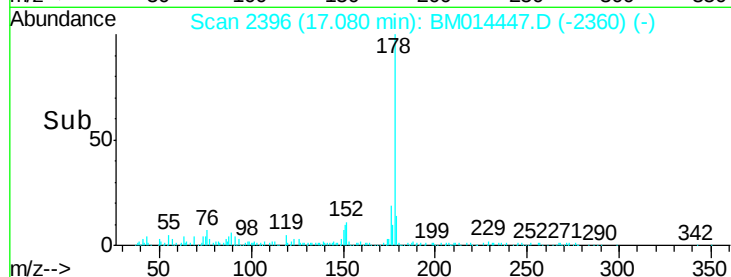
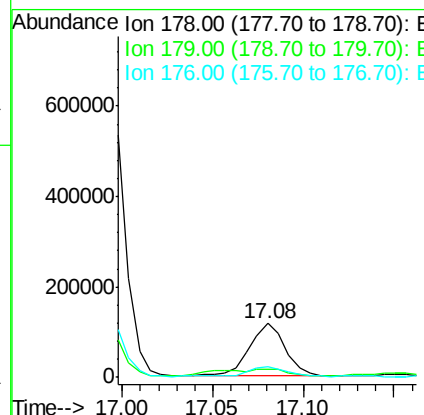
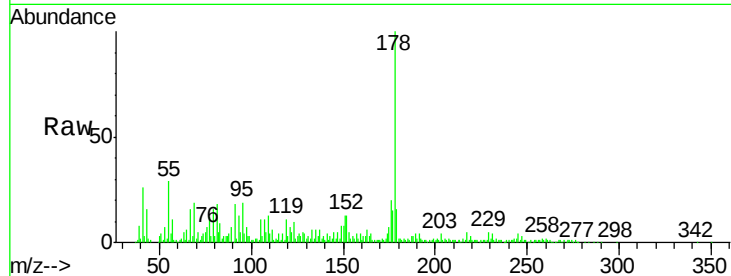
#71
 Anthracene
 Concen: 5.834 ng/ul
 RT: 17.08 min Scan# 2396
 Delta R.T. 0.01 min
 Lab File: BM014447.D
 Acq: 01 Mar 2018 23:47

Instrument :
 BNA_M
 ClientSampleId :
 BE5Z3

Tot Ion	Ratio	Lower	Upper
178	100		
179	15.6	11.7	17.5
176	19.9	14.6	21.8

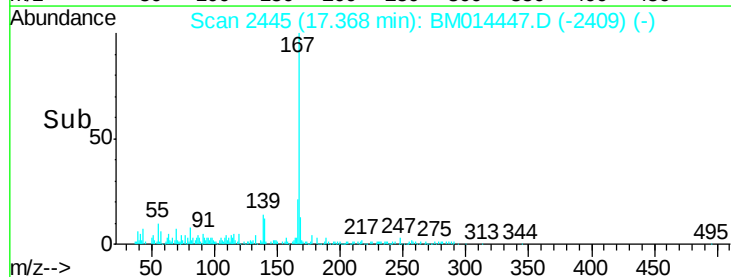
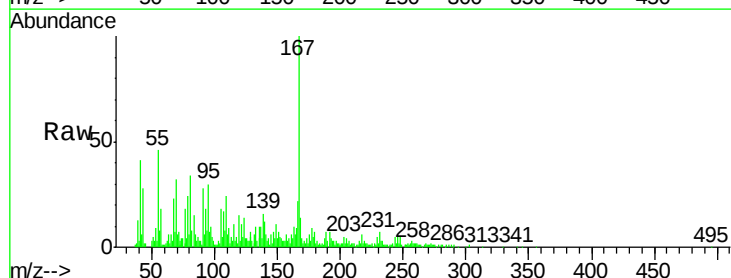
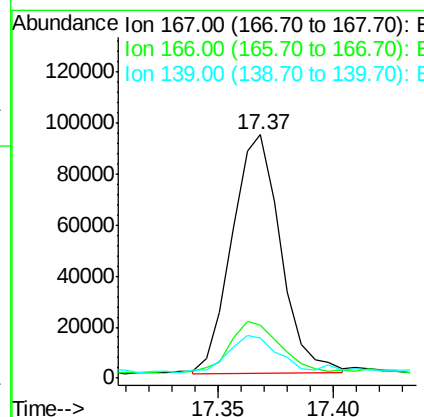
Manual Integrations
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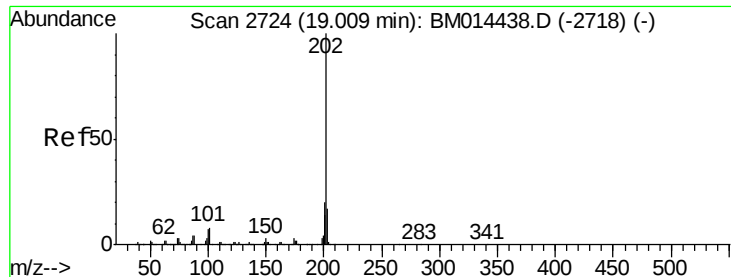
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#72
 Carbazole
 Concen: 6.018 ng/ul
 RT: 17.37 min Scan# 2445
 Delta R.T. 0.01 min
 Lab File: BM014447.D
 Acq: 01 Mar 2018 23:47

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.1	25.7
139	16.2	10.0	15.0





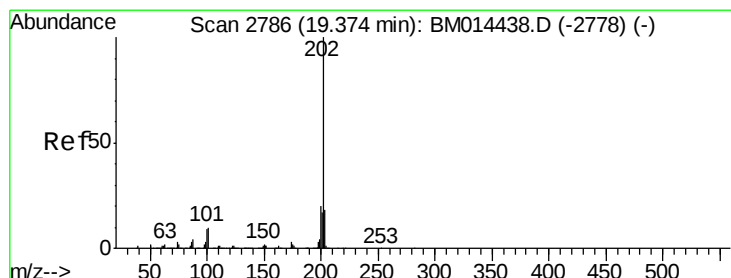
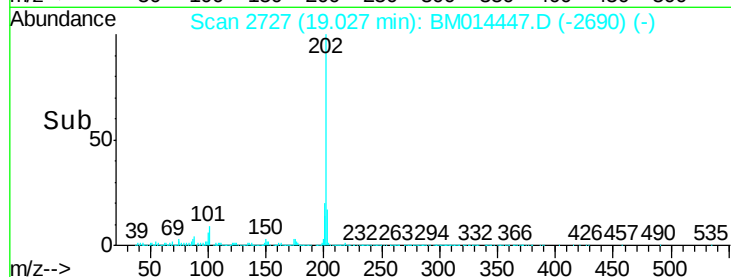
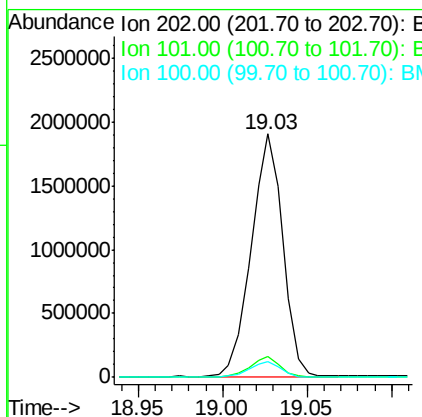
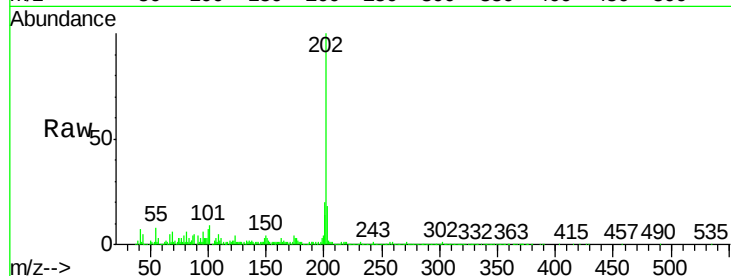
#74
 Fluoranthene
 Concen: 75.943 ng/ul
 RT: 19.03 min Scan# 2727
 Delta R.T. 0.02 min
 Lab File: BM014447.D
 Acq: 01 Mar 2018 23:47

Instrument :
 BNA_M
 ClientSampleId :
 BE5Z3

Tot Ion	Ratio	Lower	Upper
202	100		
101	8.7	4.6	7.0#
100	6.6	3.4	5.2#

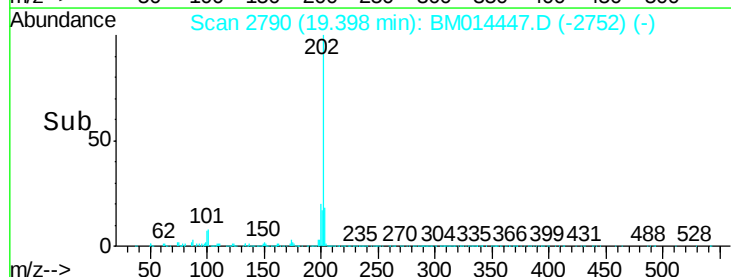
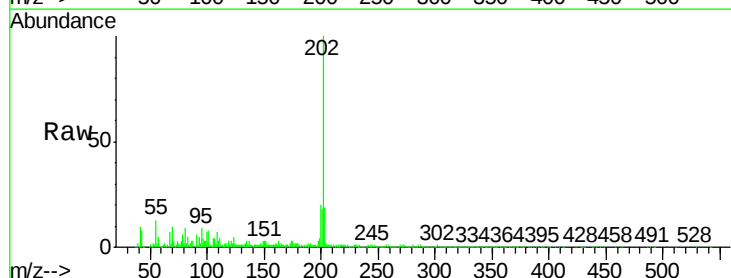
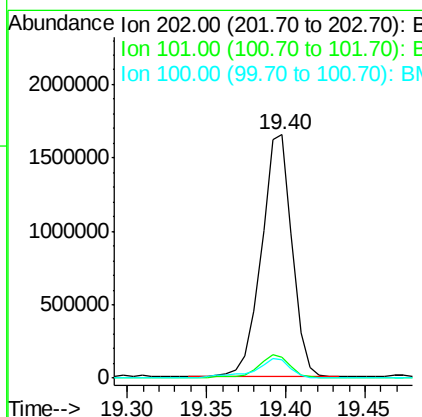
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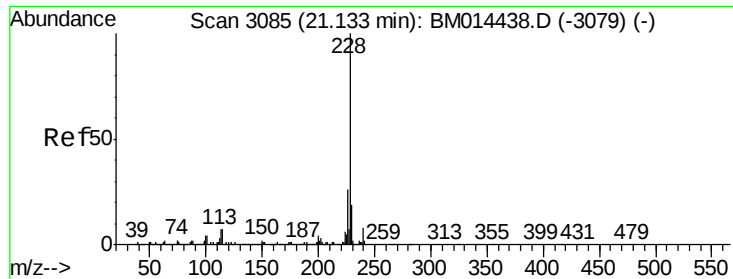
Sohil
 3/2/2018 3:32:09 PM



#77
 Pyrene
 Concen: 43.183 ng/ul
 RT: 19.40 min Scan# 2790
 Delta R.T. 0.02 min
 Lab File: BM014447.D
 Acq: 01 Mar 2018 23:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.4	5.1	7.7#
100	7.5	4.9	7.3#





#80

Benzo(a)anthracene

Concen: 15.274 ng/ul

RT: 21.16 min Scan# 3090

Delta R.T. 0.03 min

Lab File: BM014447.D

Acq: 01 Mar 2018 23:47

Instrument :

BNA_M

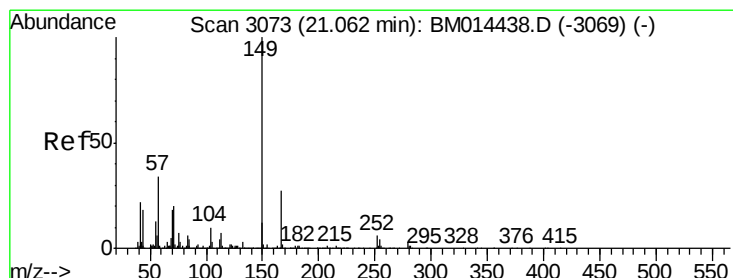
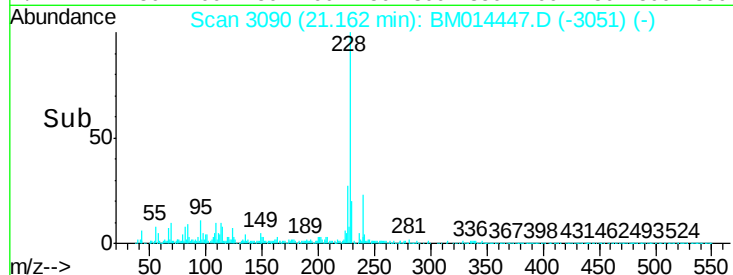
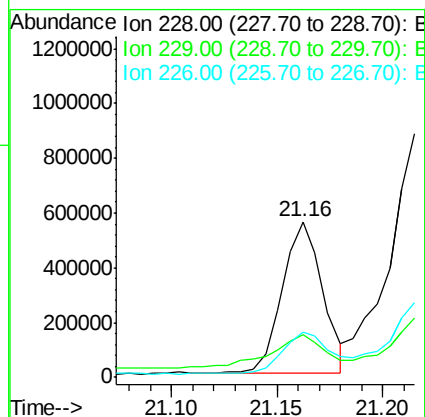
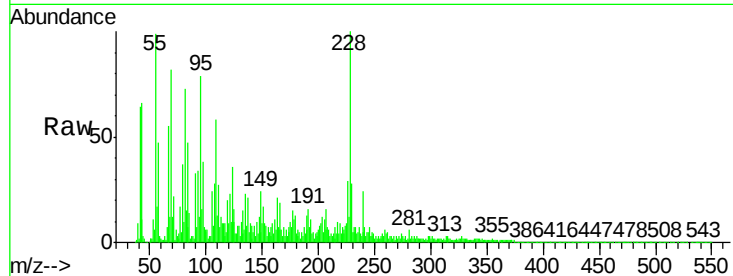
ClientSampleId :

BE5Z3

Tot Ion:	228	Resp:	736928
Ion Ratio	Lower	Upper	
228	100		
229	27.8	15.4	23.0#
226	28.7	21.4	32.0

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#81

Bis(2-ethylhexyl)phthalate

Concen: 10.559 ng/ul

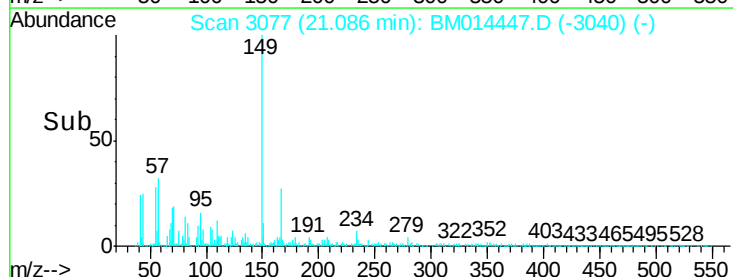
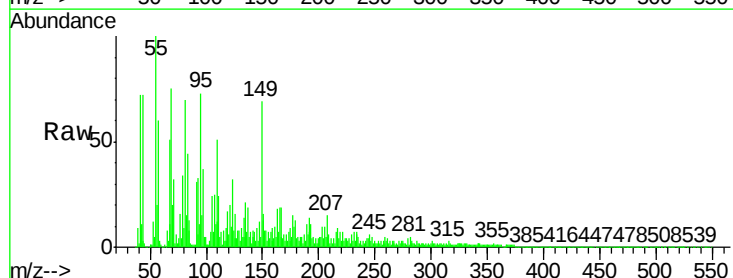
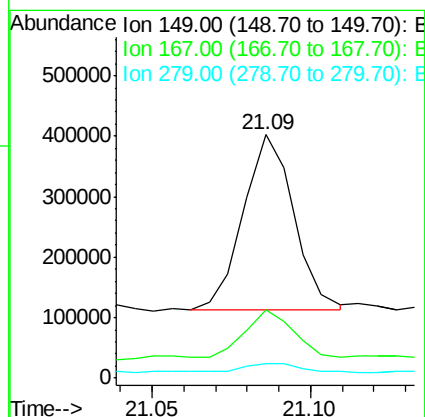
RT: 21.09 min Scan# 3077

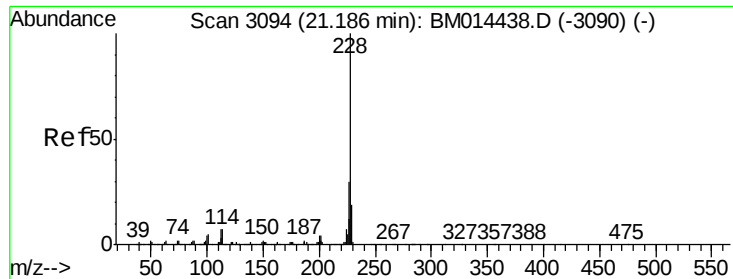
Delta R.T. 0.02 min

Lab File: BM014447.D

Acq: 01 Mar 2018 23:47

Tgt Ion:	149	Resp:	321240
Ion Ratio	Lower	Upper	
149	100		
167	27.8	22.8	34.2
279	5.7	4.9	7.3





#82

Chrysene

Concen: 27.613 ng/ul

RT: 21.22 min Scan# 3099

Delta R.T. 0.03 min

Lab File: BM014447.D

Acq: 01 Mar 2018 23:47

Instrument :

BNA_M

ClientSampled :

BE5Z3

Tot Ion:228 Resp: 1242868

Ion Ratio Lower Upper

228 100

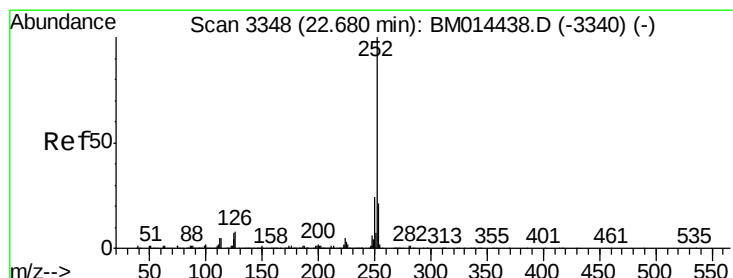
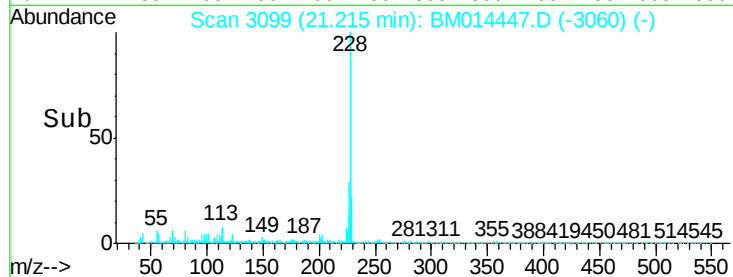
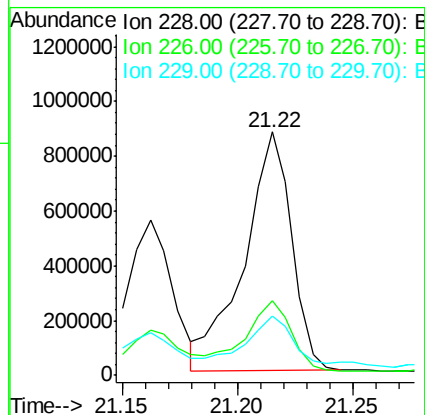
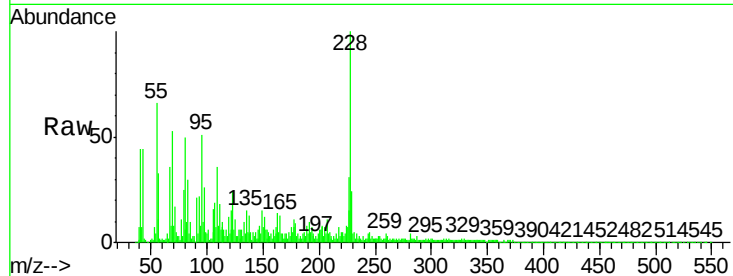
226 30.5 23.4 35.2

229 24.4 15.5 23.3#

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#85

Benzo(b)fluoranthene

Concen: 37.155 ng/ul

RT: 22.74 min Scan# 3358

Delta R.T. 0.06 min

Lab File: BM014447.D

Acq: 01 Mar 2018 23:47

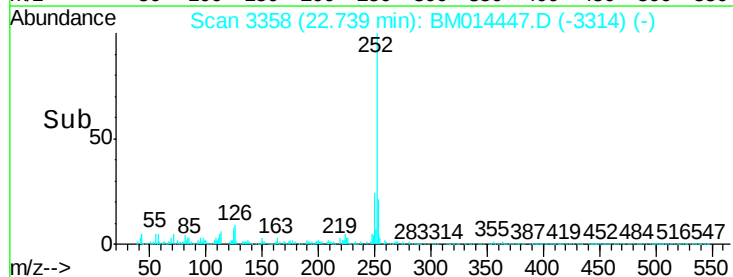
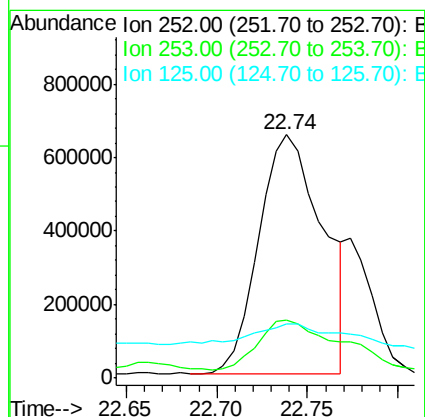
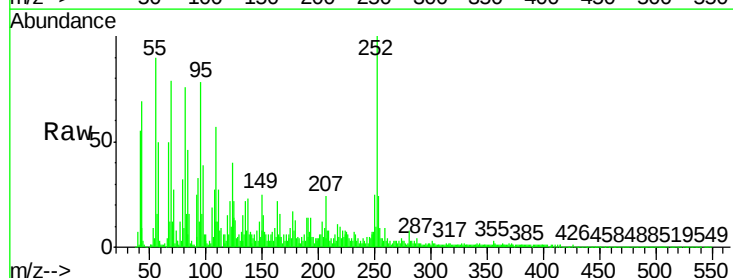
Tgt Ion:252 Resp: 1597821

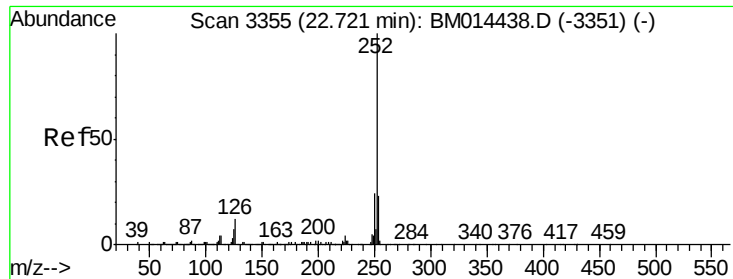
Ion Ratio Lower Upper

252 100

253 24.1 17.9 26.9

125 22.2 3.6 5.4#





#86

Benzo(k)fluoranthene

Concen: 9.286 ng/ul m

RT: 22.77 min Scan# 3364

Delta R.T. 0.05 min

Lab File: BM014447.D

Acq: 01 Mar 2018 23:47

Instrument :

BNA_M

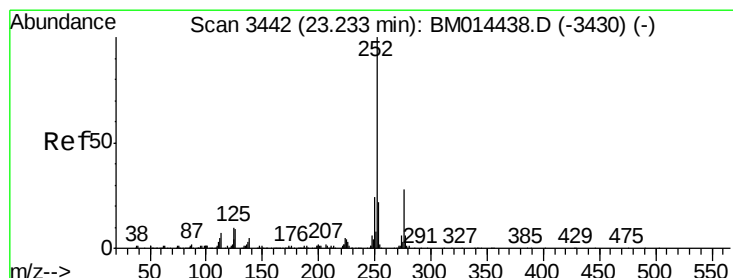
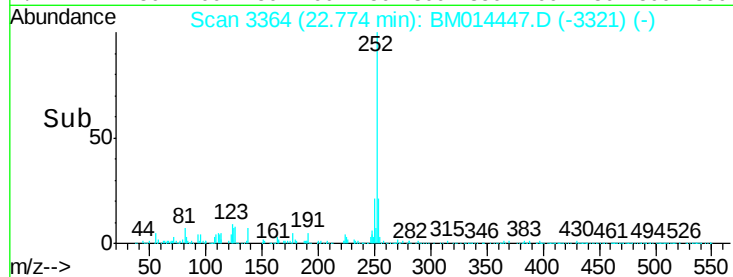
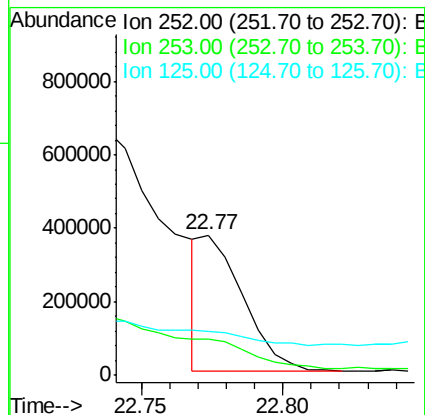
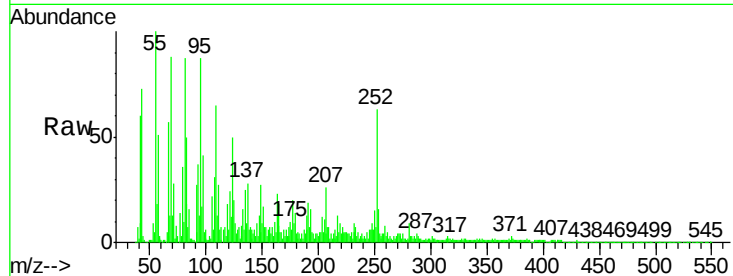
ClientSampleId :

BE5Z3

Tot Ion:	252	Resp:	379677
Ion Ratio	Lower	Upper	
252	100		
253	26.1	17.1	25.7#
125	31.8	3.4	5.2#

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#88

Benzo(a)pyrene

Concen: 19.233 ng/ul

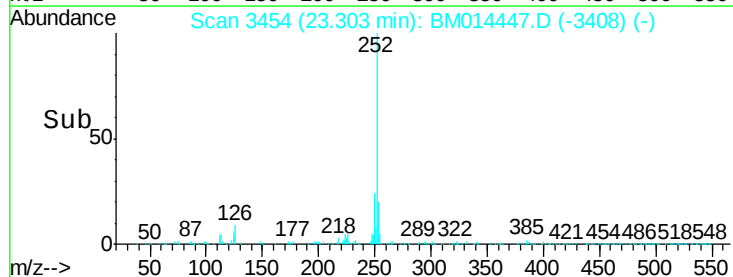
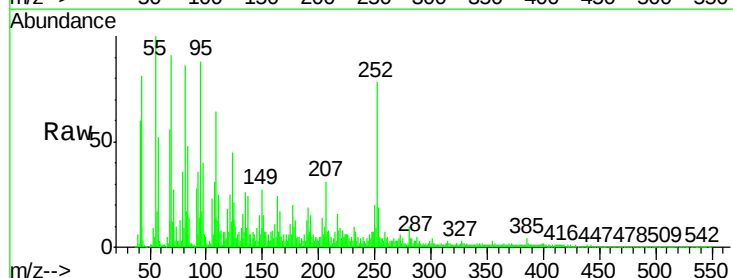
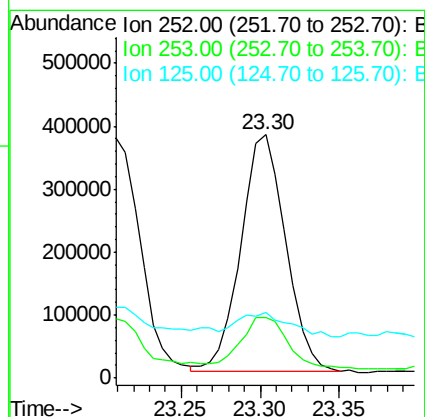
RT: 23.30 min Scan# 3454

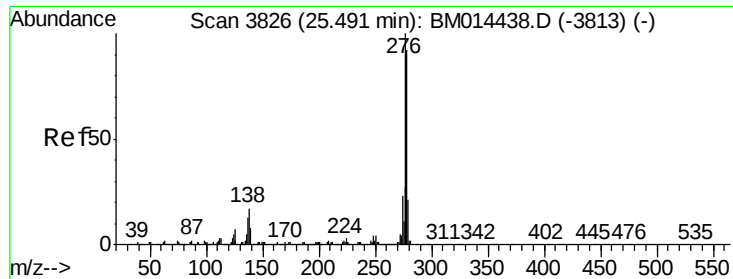
Delta R.T. 0.07 min

Lab File: BM014447.D

Acq: 01 Mar 2018 23:47

Tgt Ion:	252	Resp:	739086
Ion Ratio	Lower	Upper	
252	100		
253	24.8	18.2	27.2
125	27.1	4.0	6.0#





#89

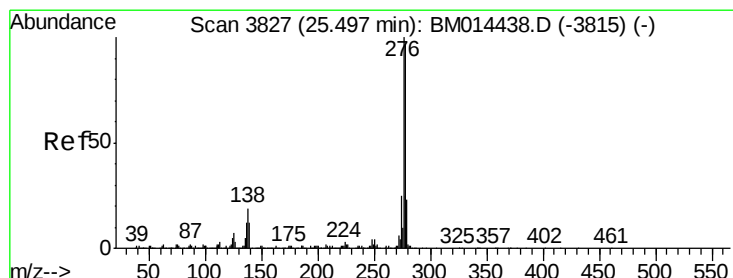
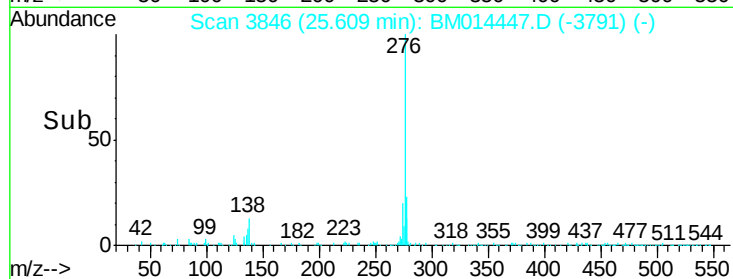
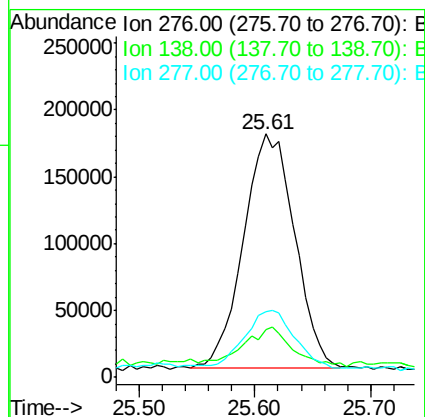
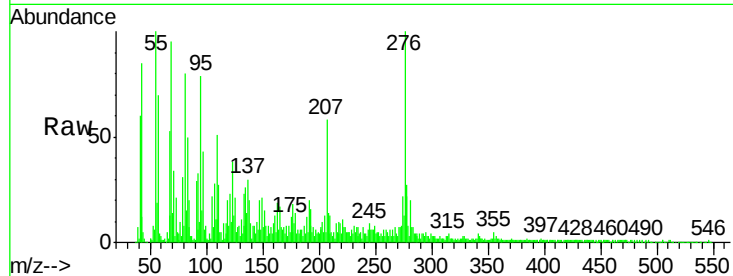
Indeno(1,2,3-cd)pyrene
Concen: 14.478 ng/ul
RT: 25.61 min Scan# 3846
Delta R.T. 0.12 min
Lab File: BM014447.D
Acq: 01 Mar 2018 23:47

Instrument :
BNA_M
ClientSampled :
BE5Z3

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.7	9.3	13.9#
277	26.8	19.9	29.9

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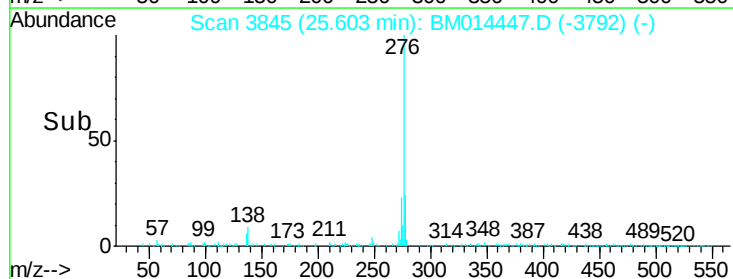
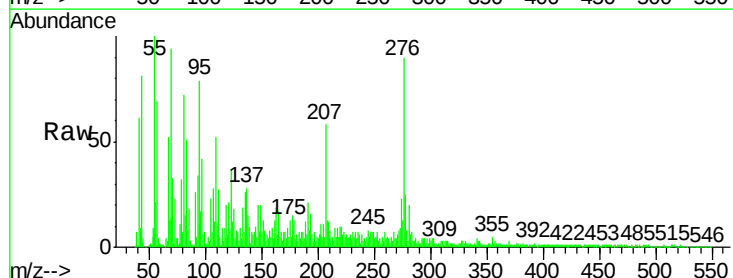
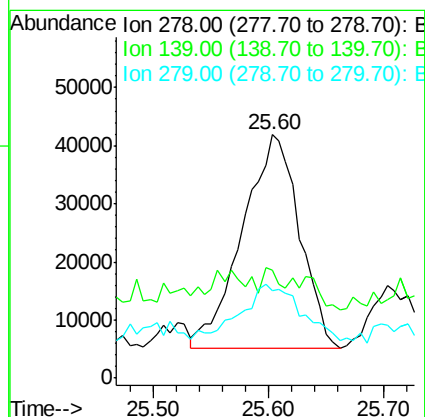
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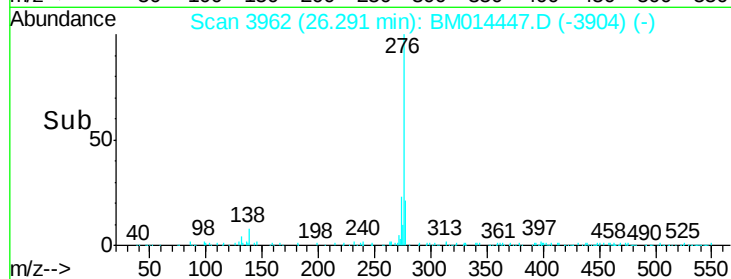
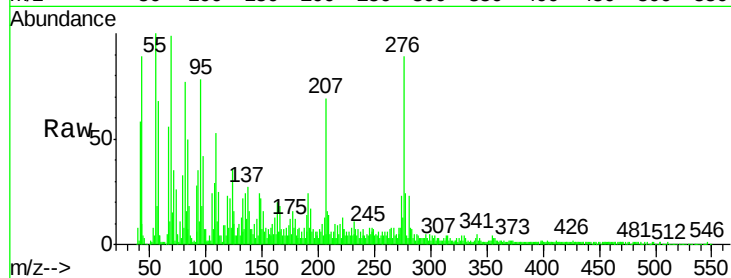
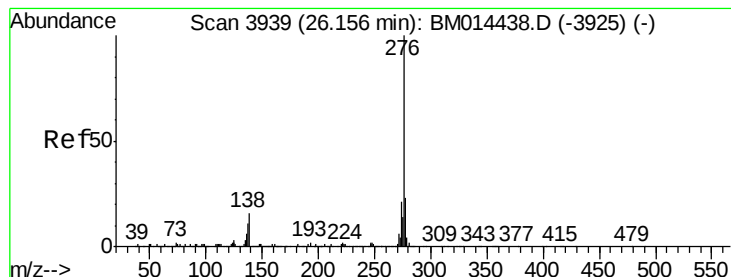


#90

Dibenzo(a,h)anthracene
Concen: 4.088 ng/ul
RT: 25.60 min Scan# 3845
Delta R.T. 0.11 min
Lab File: BM014447.D
Acq: 01 Mar 2018 23:47

Tgt Ion	Ratio	Lower	Upper
278	100		
139	44.5	5.8	8.8#
279	35.7	18.6	27.8#





#91

Benzo(a,h,i)perylene

Concen: 14.797 ng/ul m

RT: 26.29 min Scan# 3962

Delta R.T. 0.14 min

Lab File: BM014447.D

Acq: 01 Mar 2018 23:47

Instrument :

BNA_M

ClientSampleId :

BE5Z3

Tot Ion:	276	Resp:	447003
Ion Ratio	Lower	Upper	
276	100		
138	17.8	8.5	12.7#
277	26.6	18.6	28.0

Manual Integrations
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3/2/2018 3:32:09 PM

