

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
 Data File : BM014445.D
 Acq On : 01 Mar 2018 22:35
 Operator : SJ/JU
 Sample : J1678-11
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BE5W1

Manual Integrations
 APPROVED

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 3/2/2018 3:32:05 PM

Quant Time: Mar 08 15:09:19 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	7.51	152	57333	20.00	ng/ul	0.00
18) Naphthalene-d8	10.28	136	300405	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.17	164	222655	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.94	188	602168	20.00	ng/ul	0.00
75) Chrysene-d12	21.17	240	667255	20.00	ng/ul	0.02
83) Perylene-d12	23.40	264	653692	20.00	ng/ul	0.08

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.08	96	3970	2.96	ng/uL	0.00
5) Phenol-d5	6.72	99	169324	34.94	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.86	67	87483	29.82	ng/ul	0.00
9) 2-Chlorophenol-d4	7.06	132	136991	36.87	ng/ul	0.00
13) 4-Methylphenol-d8	8.25	113	151189	35.66	ng/ul	0.00
19) Nitrobenzene-d5	8.67	128	69991	31.53	ng/ul	0.00
22) 2-Nitrophenol-d4	9.39	143	80526	35.05	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.93	165	165299	34.73	ng/ul	0.00
29) 4-Chloroaniline-d4	10.46	131	58320	12.44	ng/ul	0.01
43) Dimethylphthalate-d6	13.60	166	600862	32.68	ng/ul	0.00
46) Acenaphthylene-d8	13.86	160	835108	36.83	ng/ul	0.00
51) 4-Nitrophenol-d4	14.46	143	85166	33.55	ng/ul	0.02
57) Fluorene-d10	15.18	176	619308	37.59	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.35	200	15347	4.25	ng/ul	0.01
70) Anthracene-d10	17.04	188	1098167	37.80	ng/ul	0.00
76) Pyrene-d10	19.36	212	1241275	36.07	ng/ul	0.01
87) Benzo(a)pyrene-d12	23.26	264	1152321	36.22	ng/ul	0.07

Target Compounds

					Ovalue	
28) Naphthalene	10.33	128	45183	2.928	ng/ul#	96
34) 2-Methylnaphthalene	11.96	142	18713	1.593	ng/ul	92
44) Dimethylphthalate	13.65	163	100295	5.532	ng/ul	98
47) Acenaphthylene	13.89	152	167084	7.797	ng/ul	99
49) Acenaphthene	14.23	153	108623	7.198	ng/ul	97
53) Dibenzofuran	14.58	168	73684	3.256	ng/ul	88
58) Fluorene	15.23	166	133805	6.850	ng/ul	99
69) Phenanthrene	16.98	178	2947933	84.968	ng/ul	99
71) Anthracene	17.07	178	706207	20.240	ng/ul	99
72) Carbazole	17.36	167	286387	9.761	ng/ul	97
73) Di-n-butylphthalate	17.92	149	2693110	71.151	ng/ul	99
74) Fluoranthene	19.02	202	5995776	144.648	ng/ul#	92
77) Pyrene	19.39	202	5047594	113.828	ng/ul#	91
80) Benzo(a)anthracene	21.16	228	2741090	65.823	ng/ul	95
82) Chrysene	21.21	228	2543181m	65.465	ng/ul	
85) Benzo(b)fluoranthene	22.74	252	3684628m	84.181	ng/ul	
86) Benzo(k)fluoranthene	22.76	252	1025889m	24.652	ng/ul	
88) Benzo(a)pyrene	23.30	252	2534696	64.804	ng/ul#	92
89) Indeno(1,2,3-cd)pyrene	25.66	276	1489899	39.255	ng/ul#	90
90) Dibenzo(a,h)anthracene	25.64	278	406190m	12.880	ng/ul	
91) Benzo(a,h,i)perylene	26.34	276	1243596	40.447	ng/ul#	88

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

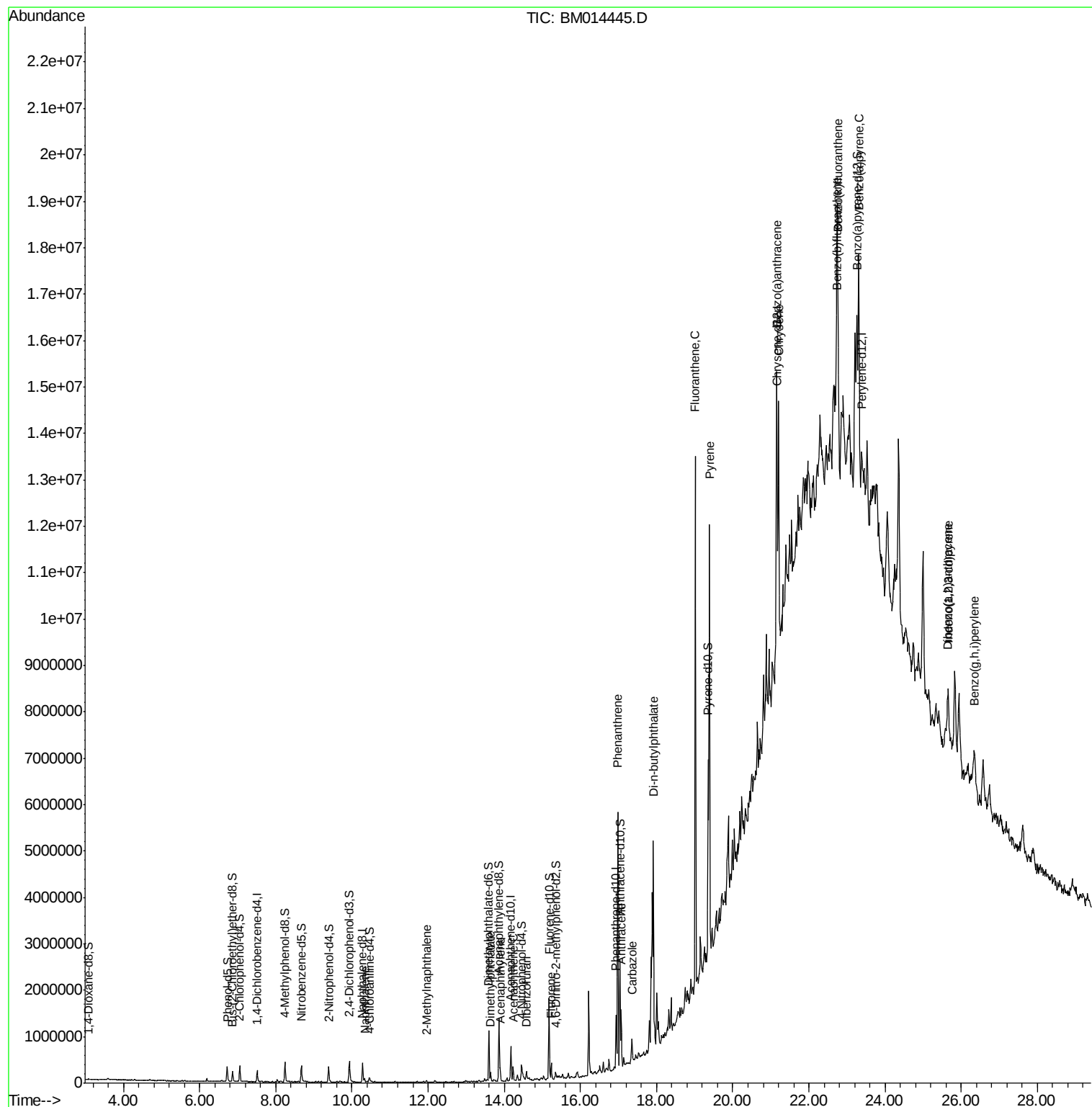
Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014445.D
Acq On : 01 Mar 2018 22:35
Operator : SJ/JU
Sample : J1678-11
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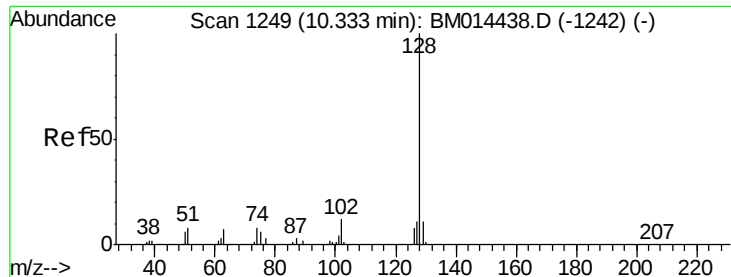
Instrument :
BNA_M
ClientSampled :
BE5W1

Manual Integrations
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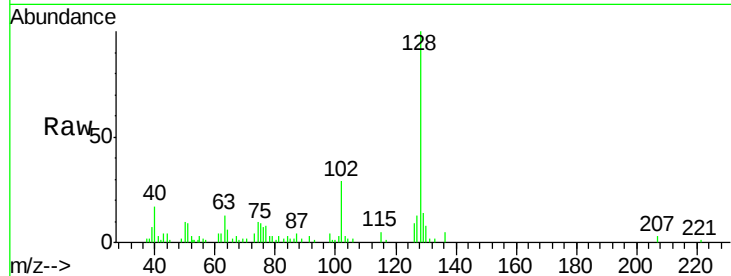
#28
Naphthalene
Concen: 2.928 ng/ul
RT: 10.33 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BM014445.D
Acq: 01 Mar 2018 22:35

Instrument :
BNA_M
ClientSampled :
BE5W1

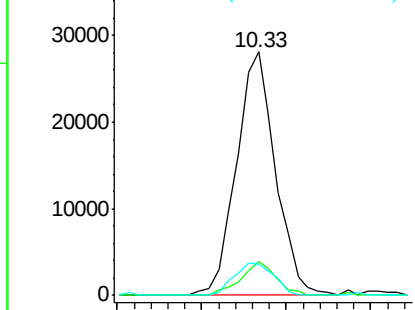
Tot Ion	Ratio	Lower	Upper
128	100		
129	13.8	8.8	13.2#
127	12.9	10.6	16.0

Manual Integrations
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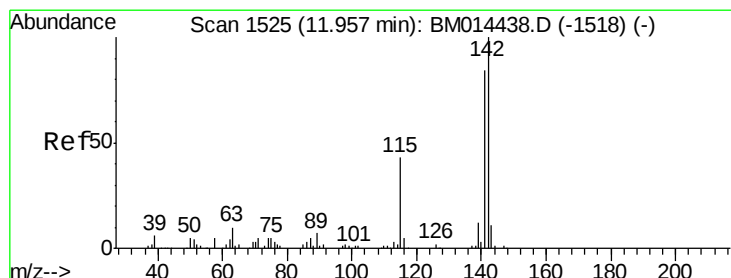
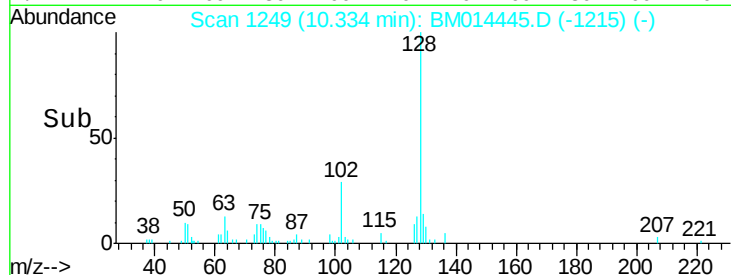
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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

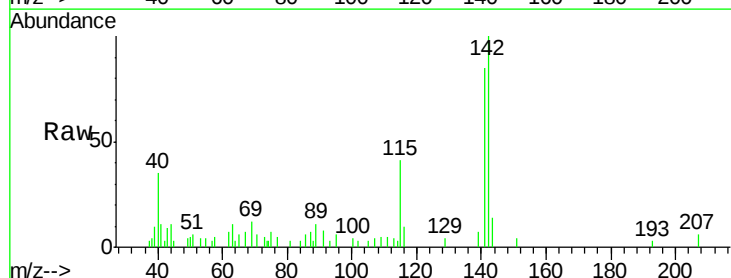


Time--> 10.25 10.30 10.35 10.40

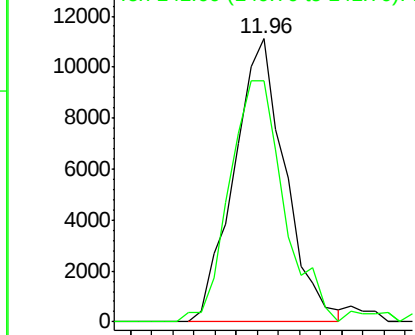


#34
2-Methylnaphthalene
Concen: 1.593 ng/ul
RT: 11.96 min Scan# 1526
Delta R.T. 0.01 min
Lab File: BM014445.D
Acq: 01 Mar 2018 22:35

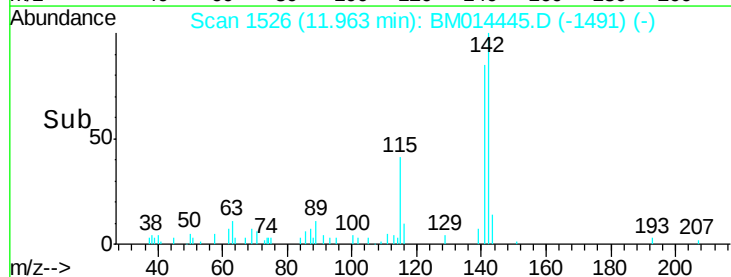
Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.0	74.1	111.1

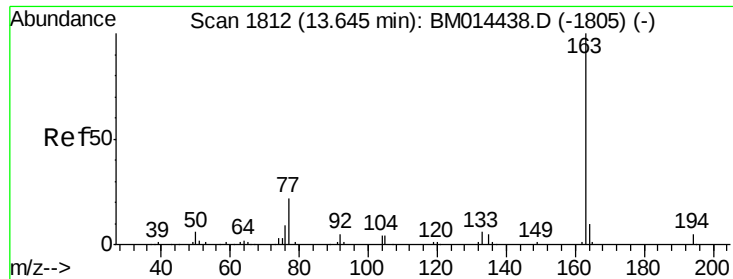


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E



Time--> 11.90 11.95 12.00





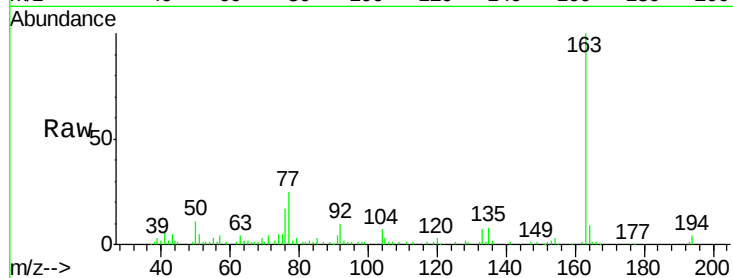
#44
Dimethylphthalate
Concen: 5.532 ng/ul
RT: 13.65 min Scan# 1812
Delta R.T. 0.00 min
Lab File: BM014445.D
Acq: 01 Mar 2018 22:35

Instrument :
BNA_M
ClientSampleId :
BE5W1

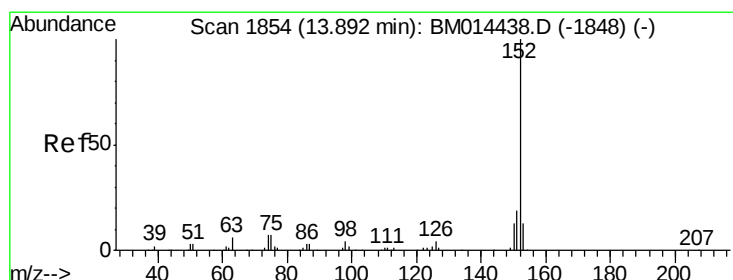
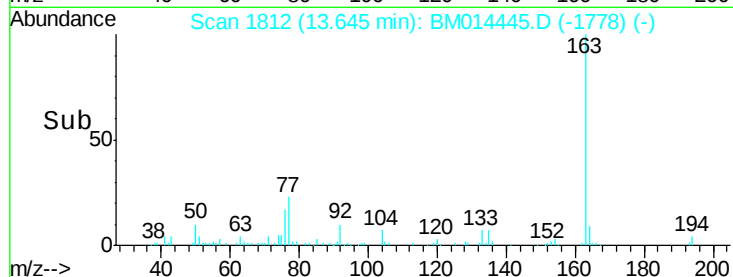
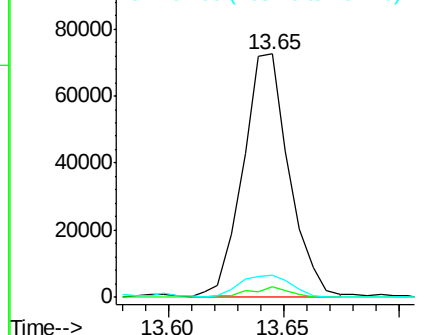
Tot Ion	Ratio	Resp	Lower	Upper
163	100	100295		
194	4.3		3.5	5.3
164	9.2		8.2	12.4

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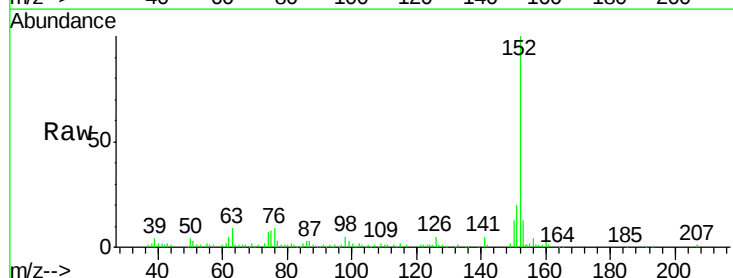


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

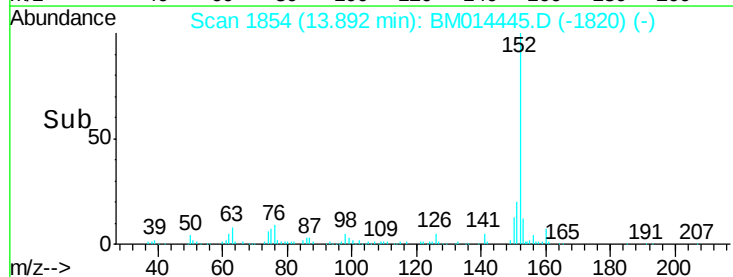
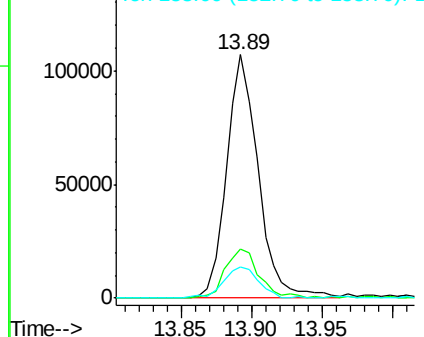


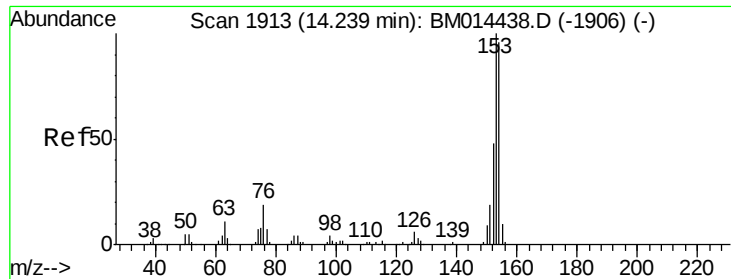
#47
Acenaphthylene
Concen: 7.797 ng/ul
RT: 13.89 min Scan# 1854
Delta R.T. 0.00 min
Lab File: BM014445.D
Acq: 01 Mar 2018 22:35

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	167084		
151	20.1		16.3	24.5
153	12.6		10.2	15.4



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: 7.198 ng/ul

RT: 14.23 min Scan# 1912

Delta R.T. -0.01 min

Lab File: BM014445.D

Acq: 01 Mar 2018 22:35

Instrument :

BNA_M

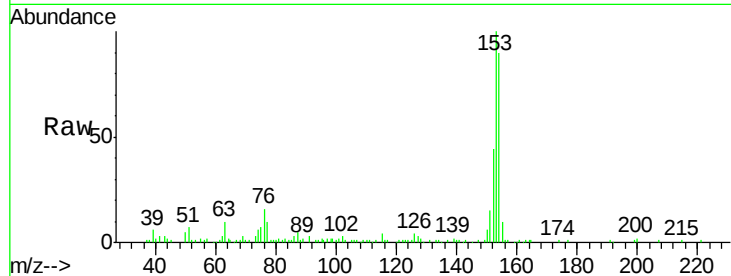
ClientSampled :

BE5W1

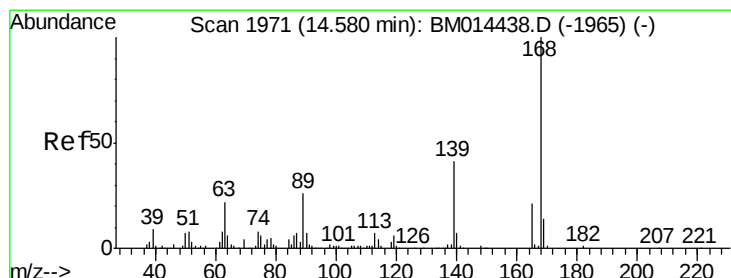
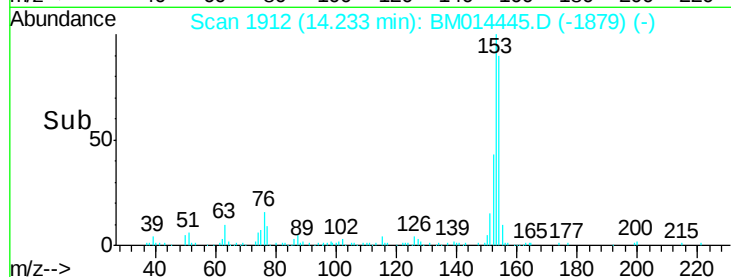
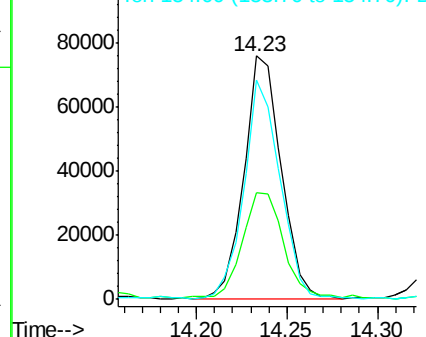
Tot Ion:	153	Resp:	108623
Ion Ratio	Lower	Upper	
153	100		
152	43.9	37.6	56.4
154	89.8	70.4	105.6

Manual Integrations
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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: 3.256 ng/ul

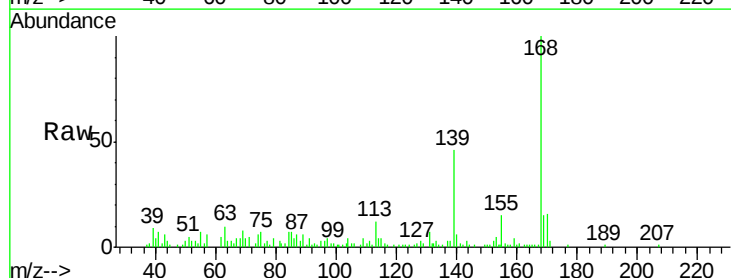
RT: 14.58 min Scan# 1971

Delta R.T. 0.00 min

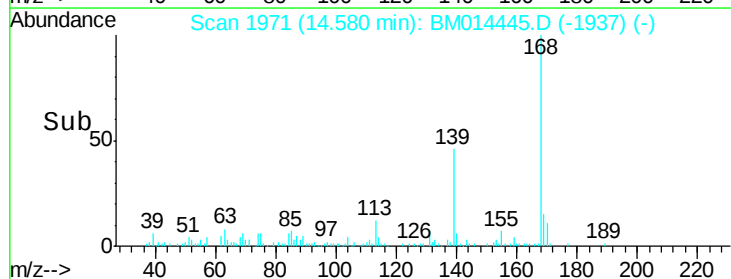
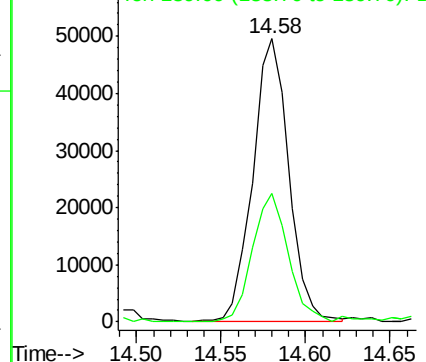
Lab File: BM014445.D

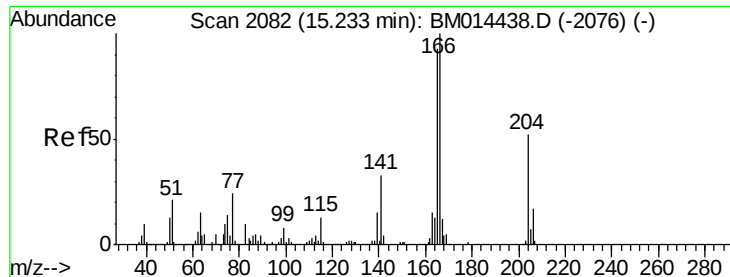
Acq: 01 Mar 2018 22:35

Tgt Ion:	168	Resp:	73684
Ion Ratio	Lower	Upper	
168	100		
139	45.5	30.8	46.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





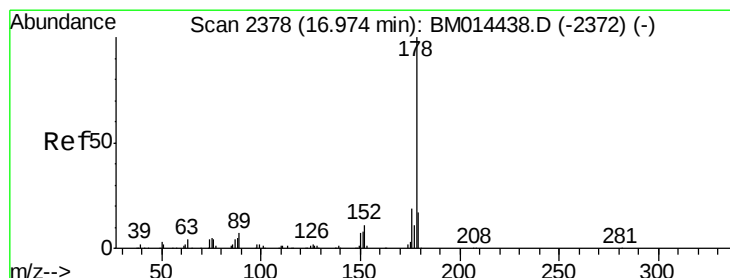
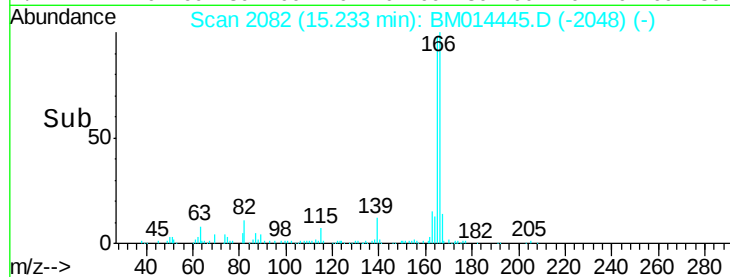
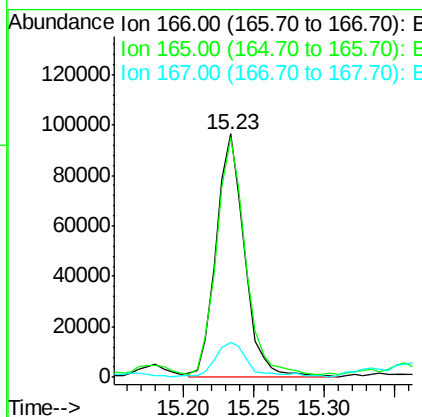
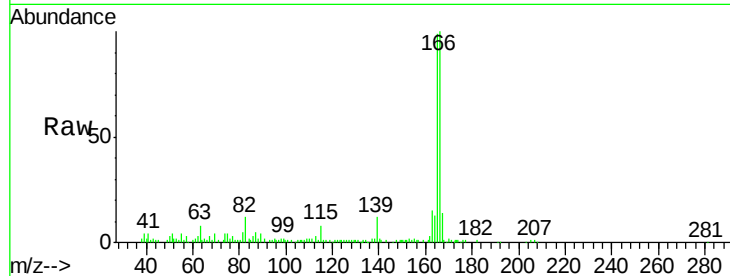
#58
Fluorene
 Concen: 6.850 ng/ul
 RT: 15.23 min Scan# 2082
 Delta R.T. 0.00 min
 Lab File: BM014445.D
 Acq: 01 Mar 2018 22:35

Instrument :
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 BE5W1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		133805		
165	98.6	77.9	116.9		
167	14.3	10.6	16.0		

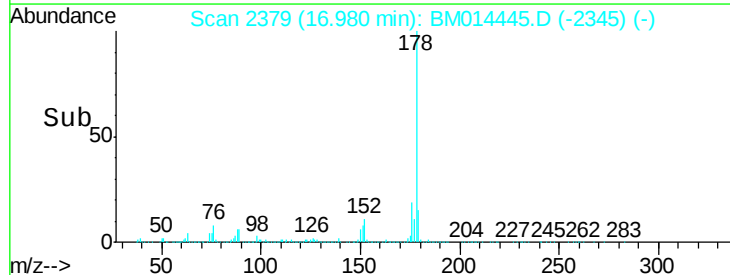
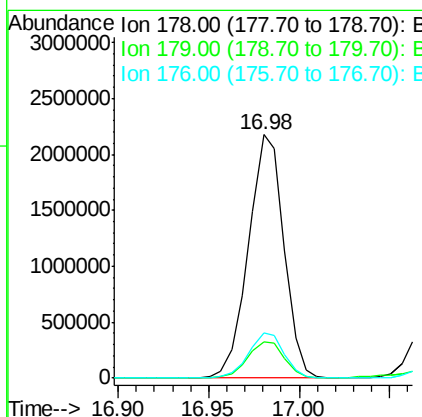
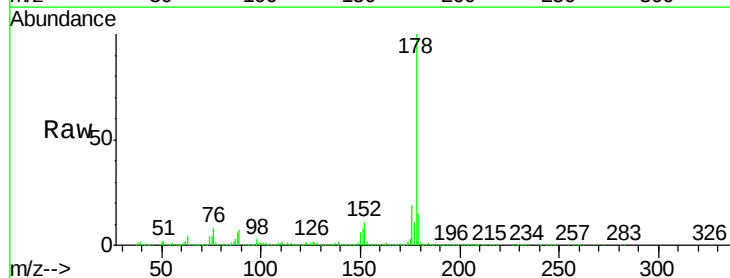
Manual Integrations
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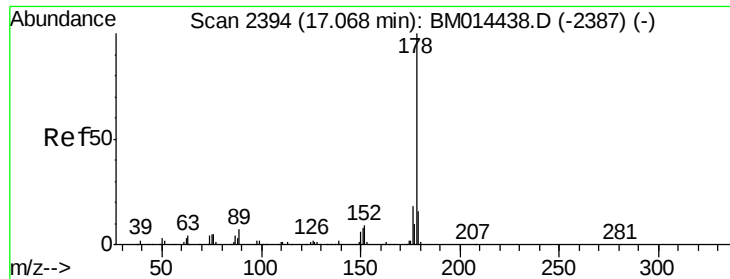
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#69
Phenanthrene
 Concen: 84.968 ng/ul
 RT: 16.98 min Scan# 2379
 Delta R.T. 0.00 min
 Lab File: BM014445.D
 Acq: 01 Mar 2018 22:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
178	100		2947933		
179	15.0	12.6	19.0		
176	18.8	14.9	22.3		





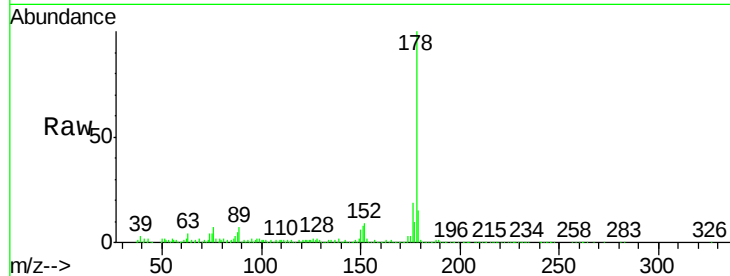
#71
 Anthracene
 Concen: 20.240 ng/ul
 RT: 17.07 min Scan# 2395
 Delta R.T. 0.01 min
 Lab File: BM014445.D
 Acq: 01 Mar 2018 22:35

Instrument :
 BNA_M
 ClientSampleId :
 BE5W1

Tot Ion	Ratio	Lower	Upper
178	100		
179	14.9	11.7	17.5
176	19.0	14.6	21.8

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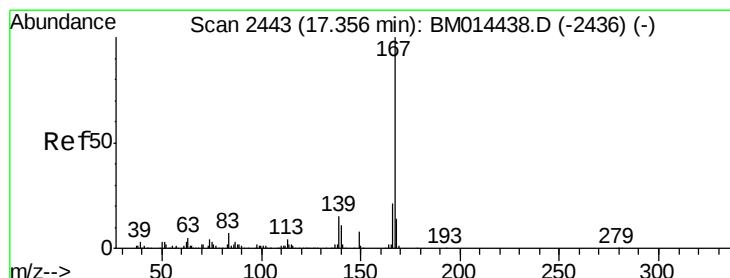
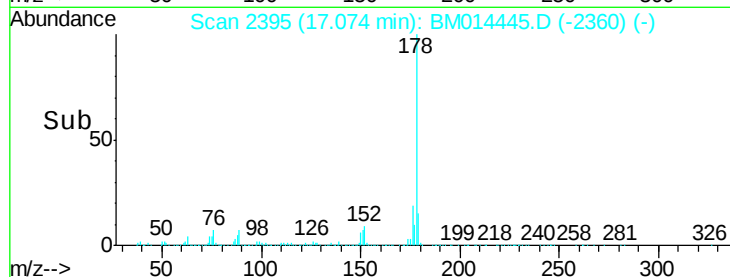
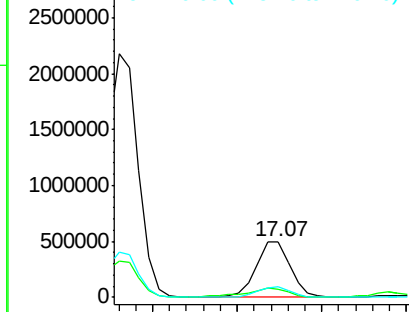


Abundance

Ion 178.00 (177.70 to 178.70): E

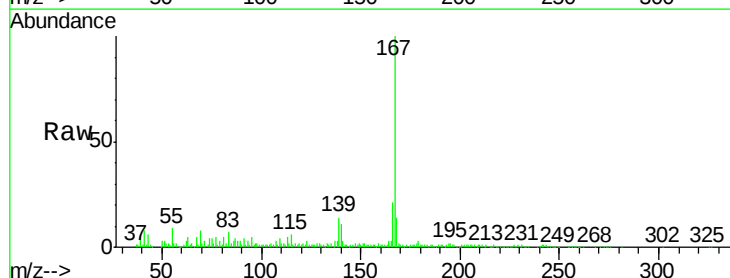
Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72
 Carbazole
 Concen: 9.761 ng/ul
 RT: 17.36 min Scan# 2443
 Delta R.T. 0.00 min
 Lab File: BM014445.D
 Acq: 01 Mar 2018 22:35

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.7	17.1	25.7
139	14.1	10.0	15.0

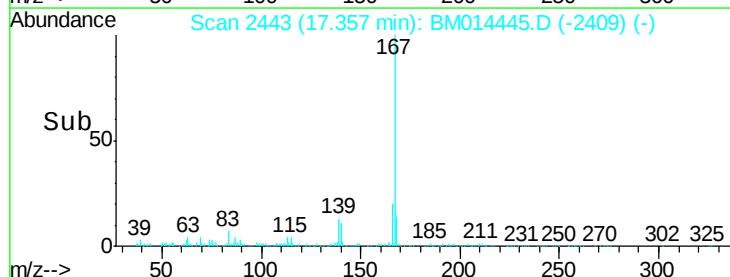
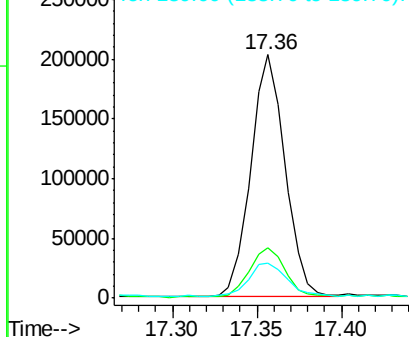


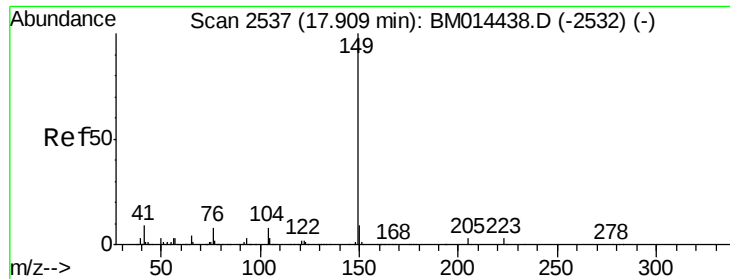
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 71.151 ng/ul

RT: 17.92 min Scan# 2538

Delta R.T. 0.01 min

Lab File: BM014445.D

Acq: 01 Mar 2018 22:35

Instrument :

BNA_M

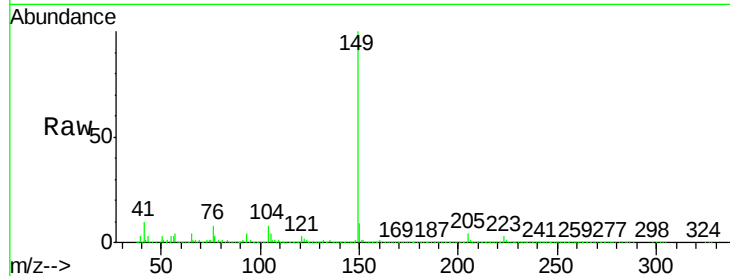
ClientSampleId :

BE5W1

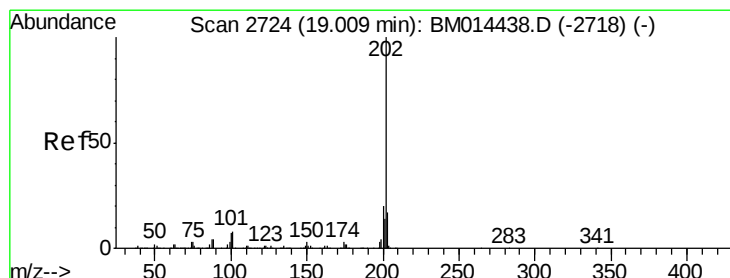
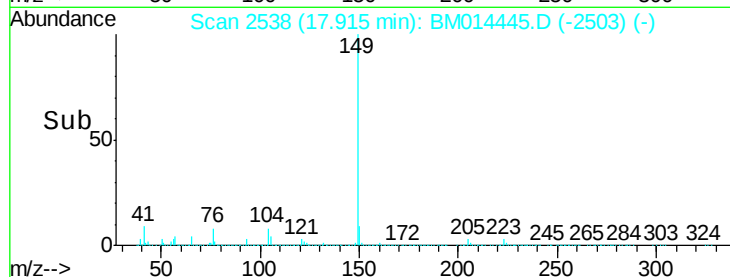
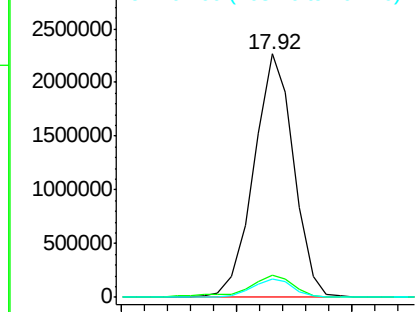
Tot Ion:	149	Resp:	2693110
Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.1	10.7
104	7.7	5.6	8.4

Manual Integrations
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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 144.648 ng/ul

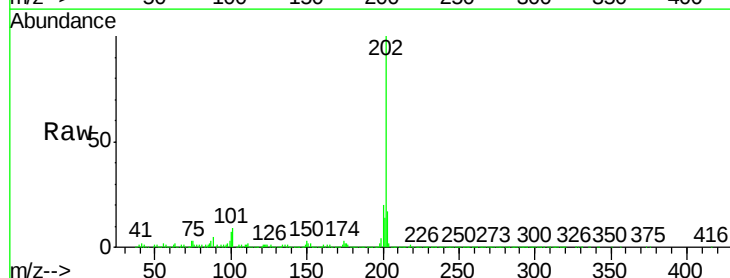
RT: 19.02 min Scan# 2726

Delta R.T. 0.01 min

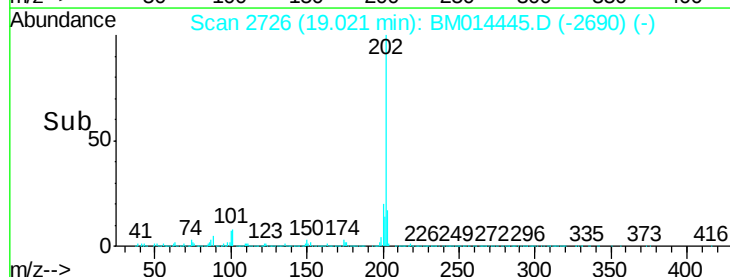
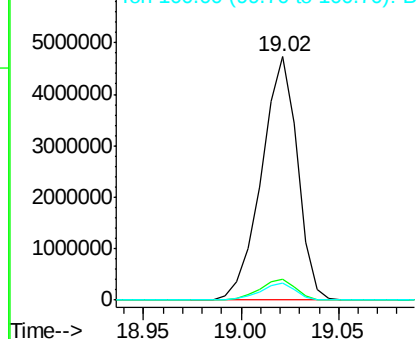
Lab File: BM014445.D

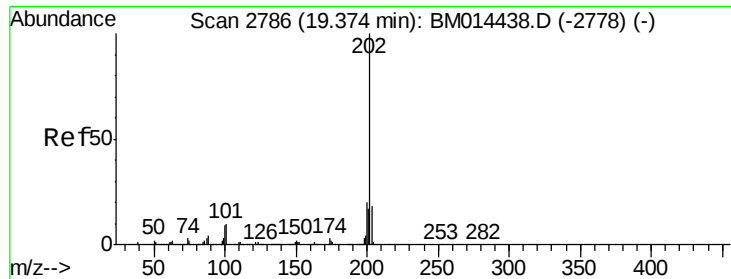
Acq: 01 Mar 2018 22:35

Tgt Ion:	202	Resp:	5995776
Ion	Ratio	Lower	Upper
202	100		
101	8.5	4.6	7.0#
100	6.8	3.4	5.2#



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





#77

Pvrene

Concen: 113.828 ng/ul

RT: 19.39 min Scan# 2788

Delta R.T. 0.01 min

Lab File: BM014445.D

Acq: 01 Mar 2018 22:35

Instrument :

BNA_M

ClientSampled :

BE5W1

Tot Ion:202 Resp: 5047594

Ion Ratio Lower Upper

202 100

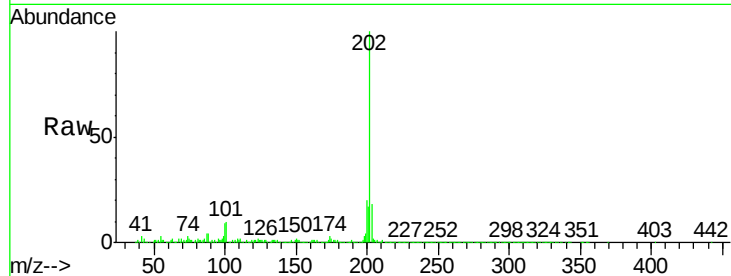
101 10.2 5.1 7.7#

100 8.5 4.9 7.3#

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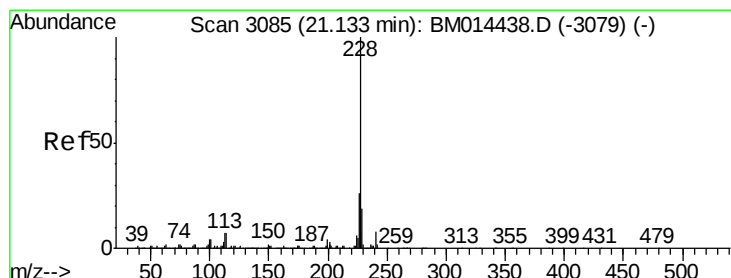
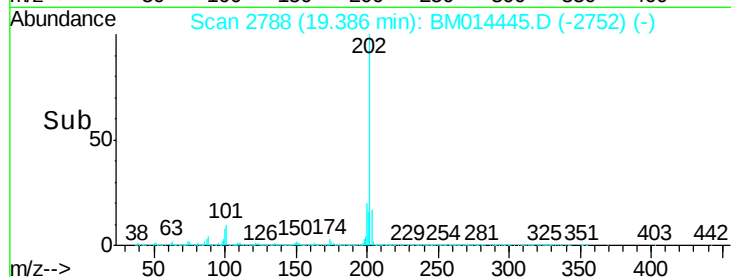
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

19.39

Time-->



#80

Benzo(a)anthracene

Concen: 65.823 ng/ul

RT: 21.16 min Scan# 3089

Delta R.T. 0.02 min

Lab File: BM014445.D

Acq: 01 Mar 2018 22:35

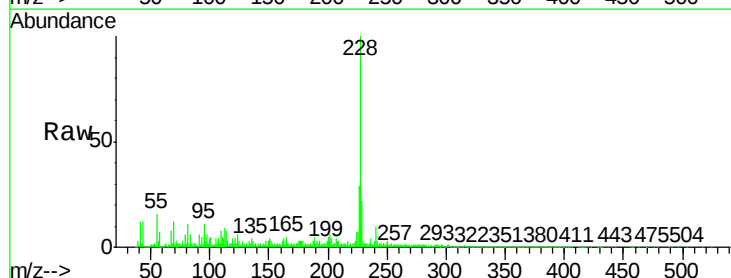
Tgt Ion:228 Resp: 2741090

Ion Ratio Lower Upper

228 100

229 22.0 15.4 23.0

226 28.5 21.4 32.0



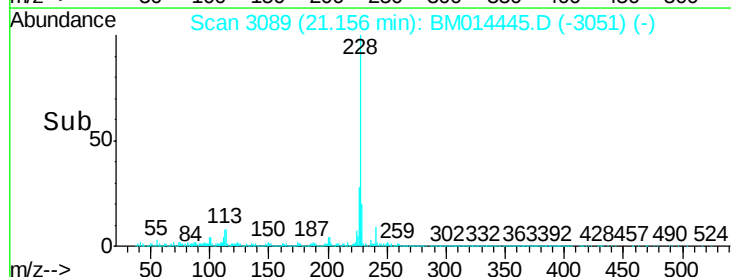
Abundance Ion 228.00 (227.70 to 228.70): E

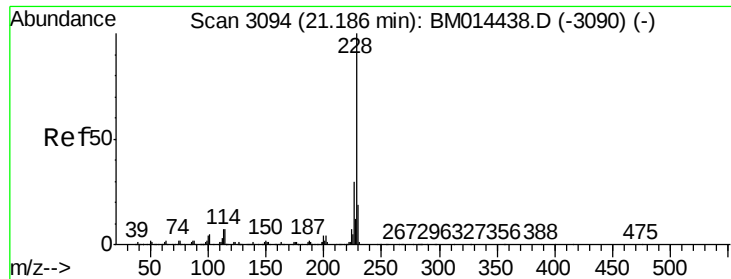
Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

21.16

Time-->





#82

Chrysene

Concen: 65.465 ng/ul m

RT: 21.21 min Scan# 3098

Delta R.T. 0.02 min

Lab File: BM014445.D

Acq: 01 Mar 2018 22:35

Instrument :

BNA_M

ClientSampled :

BE5W1

Tot Ion:228 Resp: 2543181

Ion Ratio Lower Upper

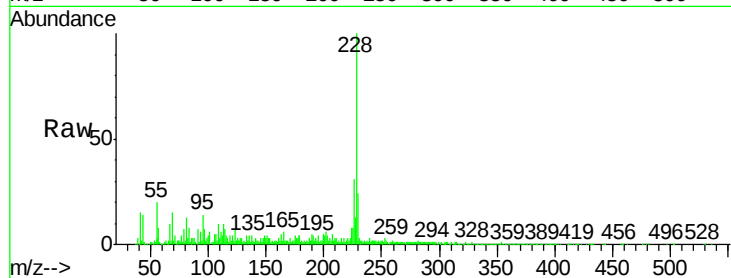
228 100

226 31.1 23.4 35.2

229 24.0 15.5 23.3#

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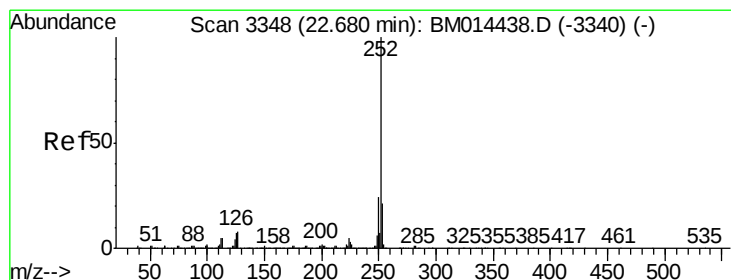
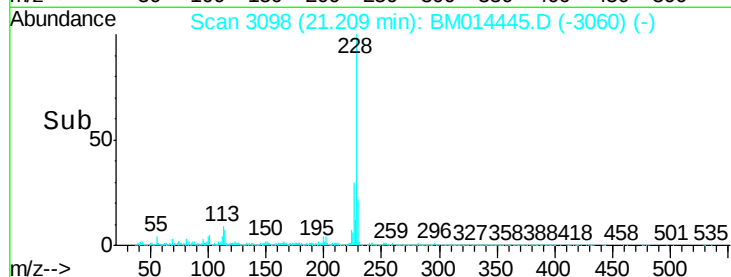
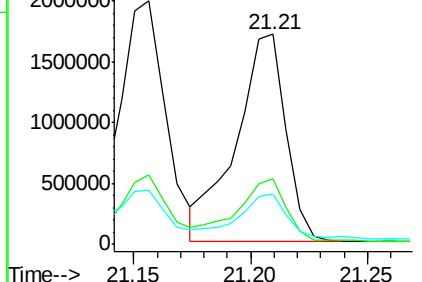
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Benzo(b)fluoranthene

Concen: 84.181 ng/ul m

RT: 22.74 min Scan# 3358

Delta R.T. 0.06 min

Lab File: BM014445.D

Acq: 01 Mar 2018 22:35

Tgt Ion:252 Resp: 3684628

Ion Ratio Lower Upper

252 100

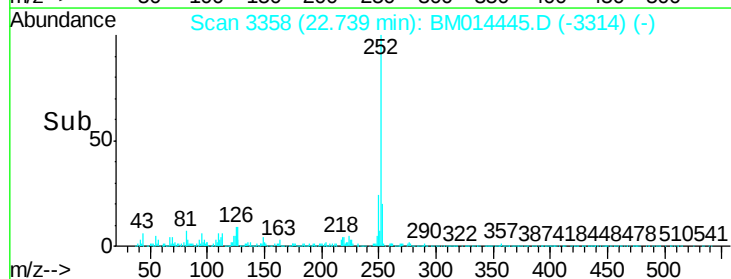
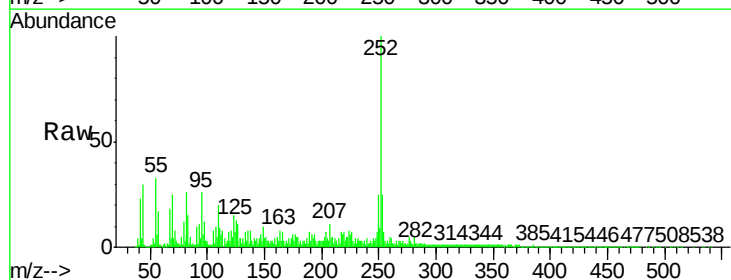
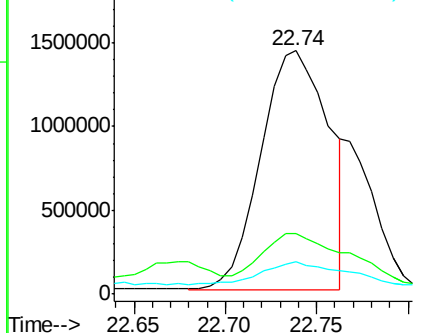
253 25.0 17.9 26.9

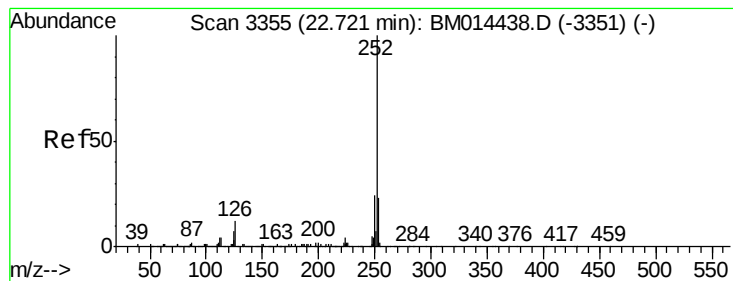
125 13.3 3.6 5.4#

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#86

Benzo(k)fluoranthene

Concen: 24.652 ng/ul m

RT: 22.76 min Scan# 3362

Delta R.T. 0.04 min

Lab File: BM014445.D

Acq: 01 Mar 2018 22:35

Instrument :

BNA_M

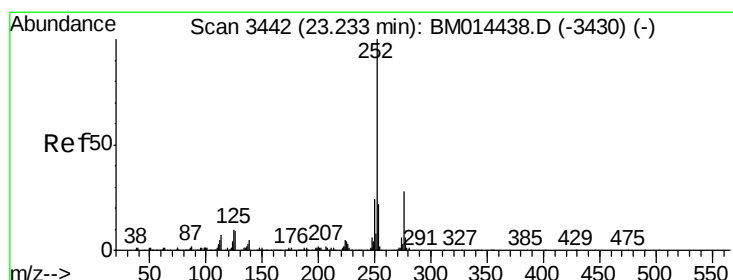
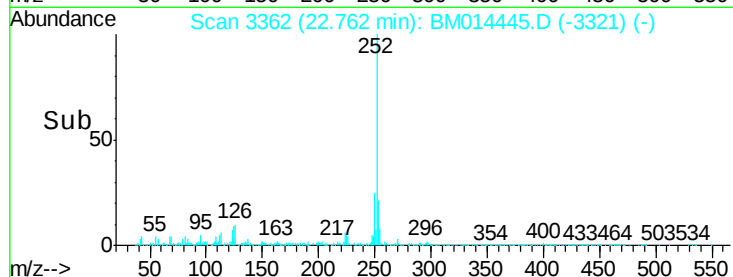
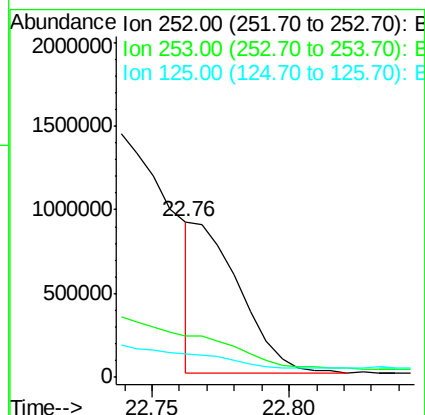
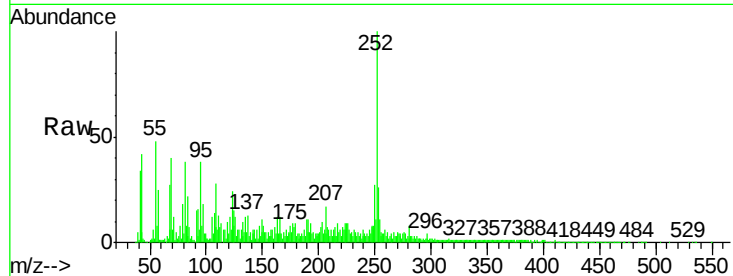
ClientSampled :

BE5W1

Tot Ion:	252	Resp:	1025889
Ion Ratio	Lower	Upper	
252	100		
253	26.4	17.1	25.7#
125	15.4	3.4	5.2#

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#88

Benzo(a)pyrene

Concen: 64.804 ng/ul

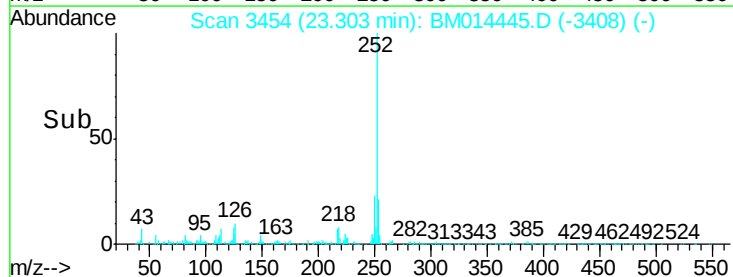
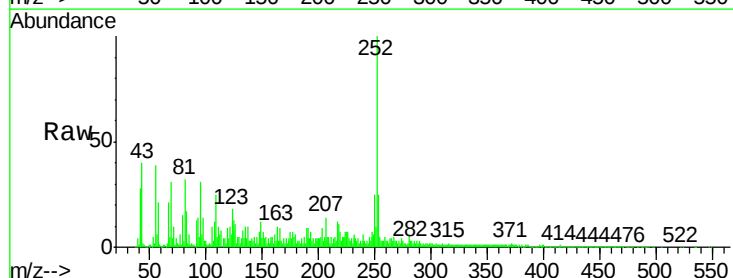
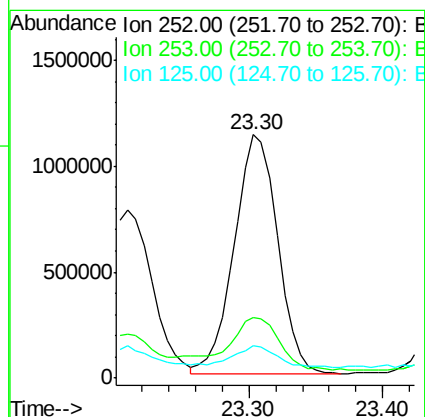
RT: 23.30 min Scan# 3454

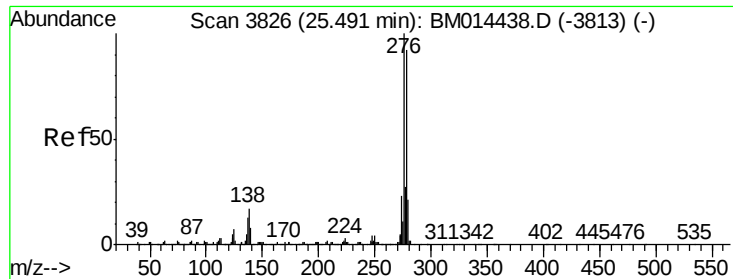
Delta R.T. 0.07 min

Lab File: BM014445.D

Acq: 01 Mar 2018 22:35

Tgt Ion:	252	Resp:	2534696
Ion Ratio	Lower	Upper	
252	100		
253	24.8	18.2	27.2
125	13.1	4.0	6.0#





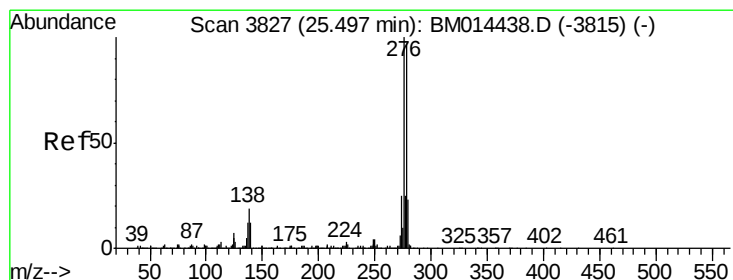
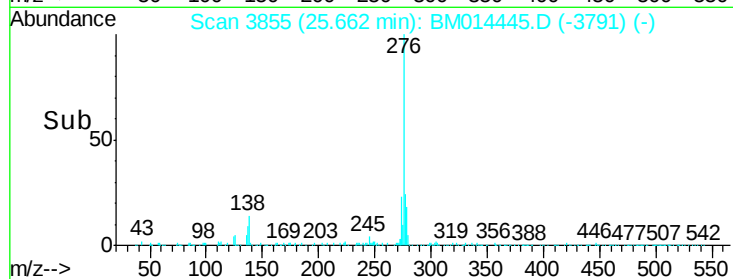
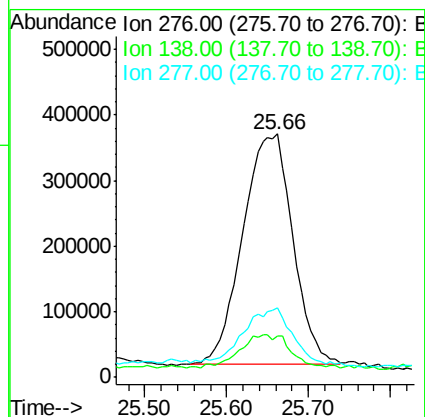
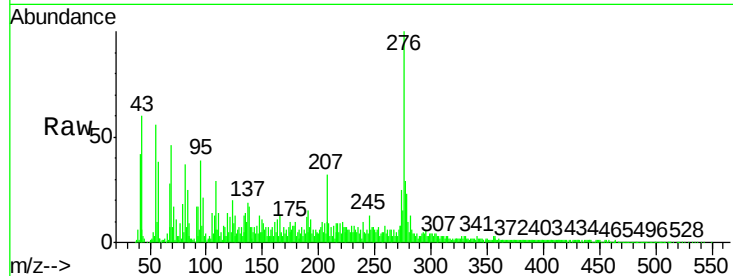
#89
Indeno(1,2,3-cd)pyrene
Concen: 39.255 ng/ul
RT: 25.66 min Scan# 3855
Delta R.T. 0.18 min
Lab File: BM014445.D
Acq: 01 Mar 2018 22:35

Instrument :
BNA_M
ClientSampled :
BE5W1

Tot Ion	Ratio	Lower	Upper
276	100		
138	17.2	9.3	13.9#
277	28.7	19.9	29.9

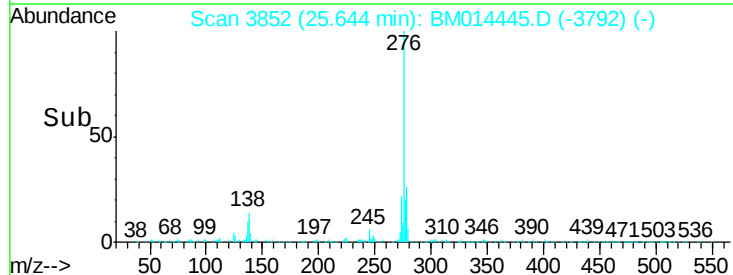
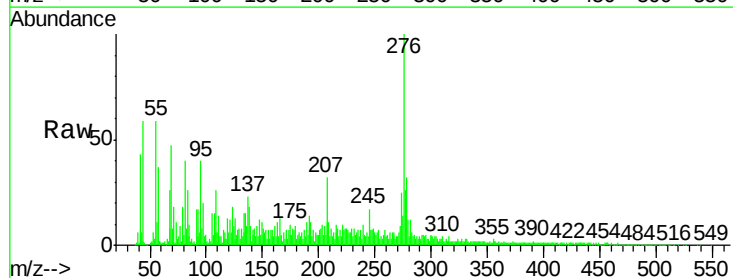
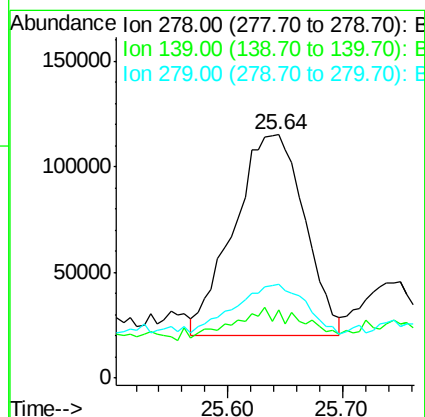
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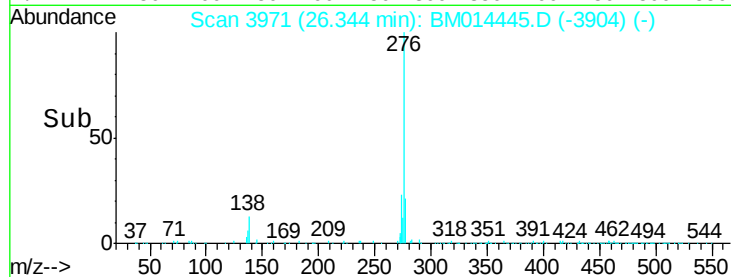
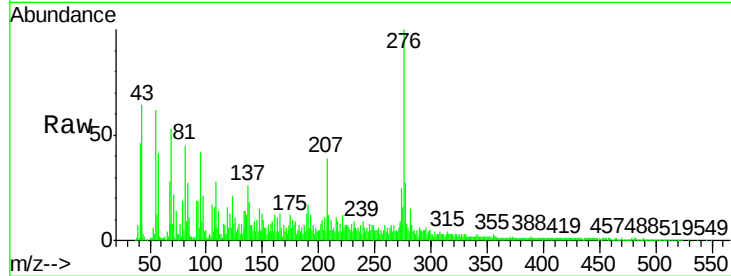
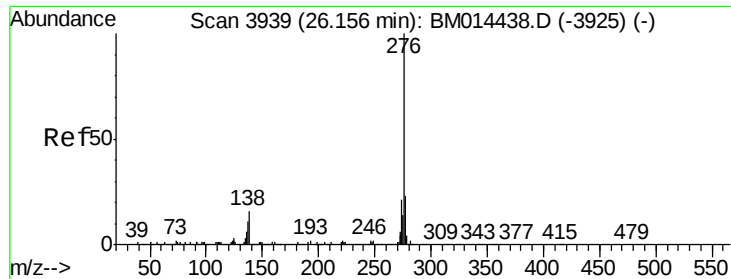
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#90
Dibenzo(a,h)anthracene
Concen: 12.880 ng/ul m
RT: 25.64 min Scan# 3852
Delta R.T. 0.15 min
Lab File: BM014445.D
Acq: 01 Mar 2018 22:35

Tgt Ion	Ratio	Lower	Upper
278	100		
139	28.0	5.8	8.8#
279	38.3	18.6	27.8#





#91
Benzo(a,h,i)perylene
Concen: 40.447 ng/ul
RT: 26.34 min Scan# 3971
Delta R.T. 0.19 min
Lab File: BM014445.D
Acq: 01 Mar 2018 22:35

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.0	8.5	12.7#
277	27.4	18.6	28.0

Instrument :
BNA_M
ClientSampleId :
BE5W1

Manual Integrations
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