

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
 Data File : BM010724.D
 Acq On : 24 Jun 2017 11:38
 Operator : SJ/JU
 Sample : I3653-05ME 10X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F5B22ME

Quant Time: Jun 26 01:52:15 2017
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Jun 26 01:49:13 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.46	152	72860	20.00	ng/ul	0.00
18) Naphthalene-d8	10.23	136	327918	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.11	164	226633	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.87	188	563819	20.00	ng/ul	0.00
75) Chrysene-d12	21.08	240	647300	20.00	ng/ul	0.00
83) Perylene-d12	23.22	264	484577	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.07	96	115	0.09	ng/uL	0.00
5) Phenol-d5	6.65	99	10916	1.57	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.81	67	6442	1.63	ng/ul	0.00
9) 2-Chlorophenol-d4	6.99	132	8300	1.70	ng/ul	0.00
13) 4-Methylphenol-d8	8.16	113	9113	1.58	ng/ul	0.00
19) Nitrobenzene-d5	8.60	128	5126	2.19	ng/ul	0.00
22) 2-Nitrophenol-d4	9.32	143	4748	1.76	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.85	165	10293	1.81	ng/ul	0.00
29) 4-Chloroaniline-d4	10.36	131	22293	3.73	ng/ul	0.00
43) Dimethylphthalate-d6	13.53	166	39317	1.98	ng/ul	0.00
46) Acenaphthylene-d8	13.80	160	44155	1.91	ng/ul	0.00
51) 4-Nitrophenol-d4	14.32	143	5736	1.64	ng/ul	0.00
57) Fluorene-d10	15.11	176	37786	2.20	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.25	200	4456	1.29	ng/ul	0.01
70) Anthracene-d10	16.97	188	61503	2.26	ng/ul	0.00
76) Pyrene-d10	19.27	212	72565	2.41	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.09	264	49978	2.13	ng/ul	0.00

Target Compounds

						Qvalue
8) Bis(2-Chloroethyl)ether	6.90	93	6497	1.25	ng/ul#	23
16) 4-Methylphenol	8.23	108	6104	1.02	ng/ul	96
24) 2,4-Dimethylphenol	9.42	107	12734	1.75	ng/ul#	90
28) Naphthalene	10.29	128	10195921	624.80	ng/ul	100
30) 4-Chloroaniline	10.29	127	1384253	230.20	ng/ul#	22
34) 2-Methylnaphthalene	11.90	142	1895853	144.52	ng/ul	96
40) 1,1'-Biphenyl	12.93	154	445958	25.17	ng/ul	99
47) Acenaphthylene	13.83	152	121058	5.49	ng/ul#	94
49) Acenaphthene	14.18	153	1396073	93.90	ng/ul	99
53) Dibenzofuran	14.52	168	1592864	70.74	ng/ul	91
58) Fluorene	15.17	166	1677877	89.00	ng/ul	99
60) 4-Nitroaniline	15.17	138	22228	5.52	ng/ul#	1
69) Phenanthrene	16.92	178	8058022	268.83	ng/ul	98
71) Anthracene	17.00	178	1166293	37.77	ng/ul	98
72) Carbazole	17.27	167	543457	20.17	ng/ul	98
74) Fluoranthene	18.95	202	4944326	127.99	ng/ul#	97
77) Pyrene	19.31	202	3174707	84.91	ng/ul#	97
80) Benzo(a)anthracene	21.07	228	952611	25.27	ng/ul	99
82) Chrysene	21.12	228	716248	21.31	ng/ul	98
85) Benzo(b)fluoranthene	22.59	252	454340	14.44	ng/ul#	97
86) Benzo(k)fluoranthene	22.59	252	454340	15.24	ng/ul#	99
88) Benzo(a)pyrene	23.13	252	249775	8.63	ng/ul#	99
89) Indeno(1,2,3-cd)pyrene	25.33	276	73677	2.45	ng/ul#	95

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Misc :
ALS Vial : 40 Sample Multiplier: 1

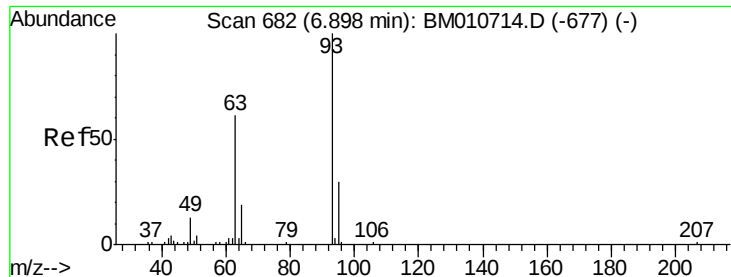
Instrument :
BNA_M
ClientSampleId :
F5B22ME

Quant Time: Jun 26 01:52:15 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Jun 26 01:49:13 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(g,h,i)perylene	25.97	276	41294	1.73	ng/ul#	96

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

```
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Misc      :
ALS Vial  : 40      Sample Multiplier: 1
```



#8

Bis(2-Chloroethyl)ether

Concen: 1.25 ng/ul

RT: 6.90 min Scan# 683

Delta R.T. 0.01 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

Instrument :

BNA_M

ClientSampleId :

F5B22ME

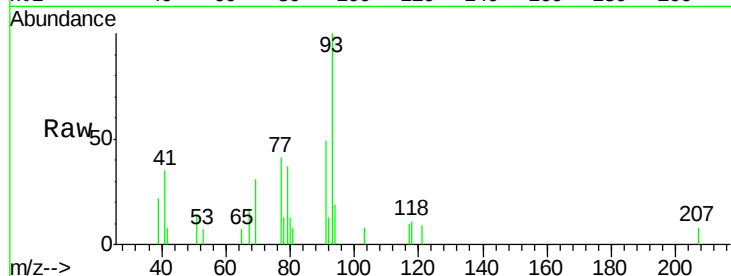
Tgt Ion: 93 Resp: 6497

Ion Ratio Lower Upper

93 100

63 0.0 57.3 85.9#

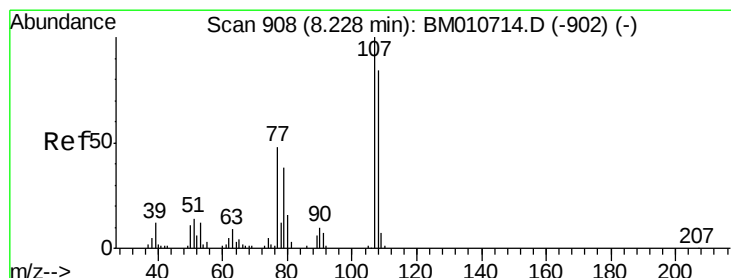
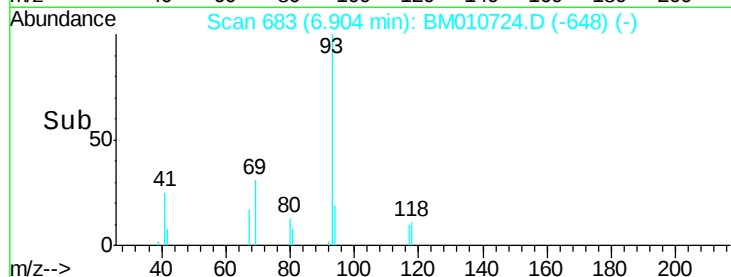
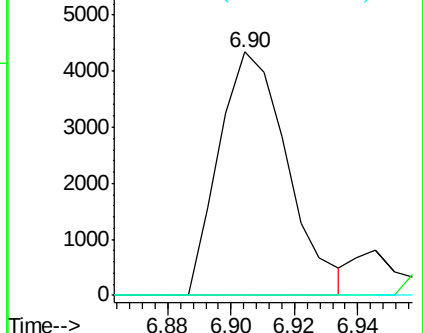
95 0.0 26.6 39.8#



Abundance Ion 93.00 (92.70 to 93.70): BM010724.D (-677) (-)

Ion 63.00 (62.70 to 63.70): BM010724.D (-677) (-)

Ion 95.00 (94.70 to 95.70): BM010724.D (-677) (-)



#16

4-Methylphenol

Concen: 1.02 ng/ul

RT: 8.23 min Scan# 908

Delta R.T. 0.00 min

Lab File: BM010724.D

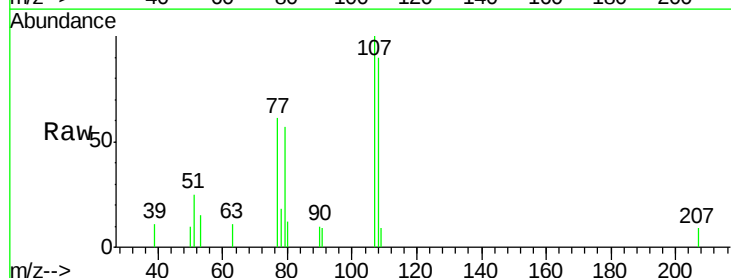
Acq: 24 Jun 2017 11:38

Tgt Ion: 108 Resp: 6104

Ion Ratio Lower Upper

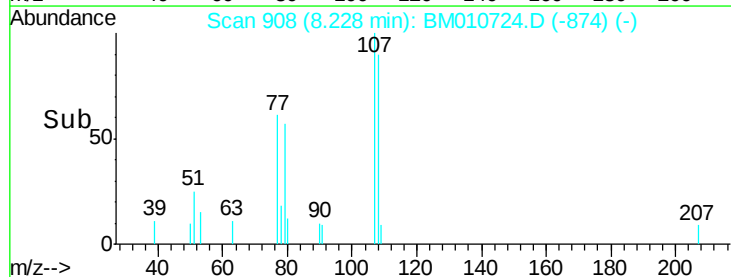
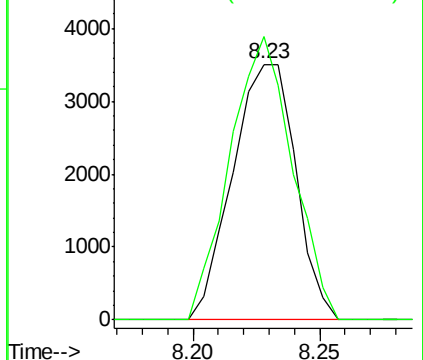
108 100

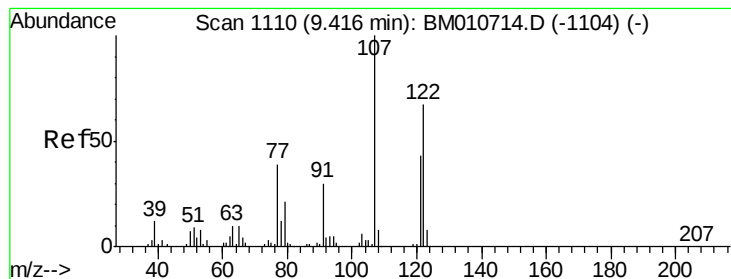
107 110.6 84.9 127.3



Abundance Ion 108.00 (107.70 to 108.70): BM010724.D (-874) (-)

Ion 107.00 (106.70 to 107.70): BM010724.D (-874) (-)





#24

2,4-Dimethylphenol

Concen: 1.75 ng/ul

RT: 9.42 min Scan# 1110

Delta R.T. 0.00 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

Instrument :

BNA_M

ClientSampled :

F5B22ME

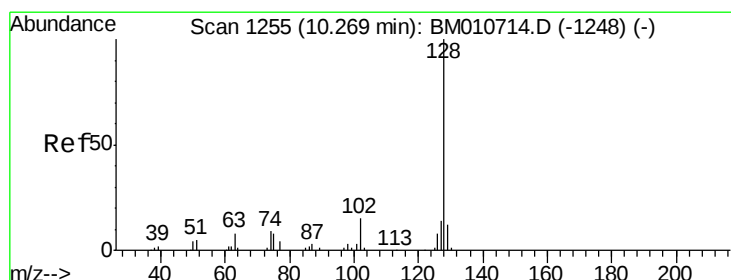
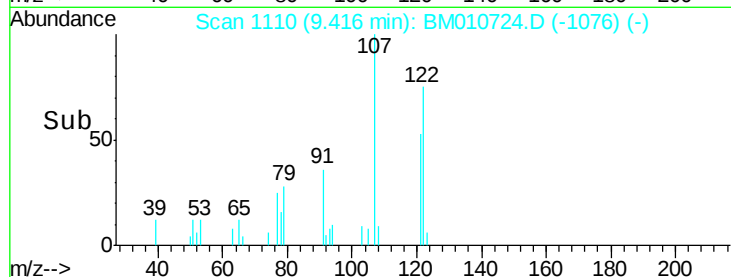
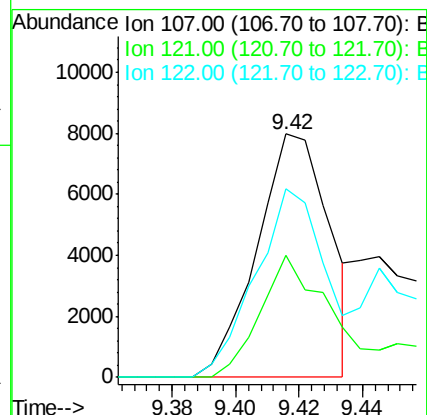
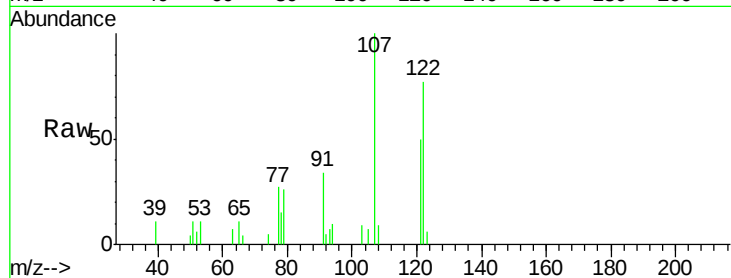
Tgt Ion:107 Resp: 12734

Ion Ratio Lower Upper

107 100

121 50.1 31.9 47.9#

122 77.3 57.8 86.6



#28

Naphthalene

Concen: 624.80 ng/ul

RT: 10.29 min Scan# 1259

Delta R.T. 0.02 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

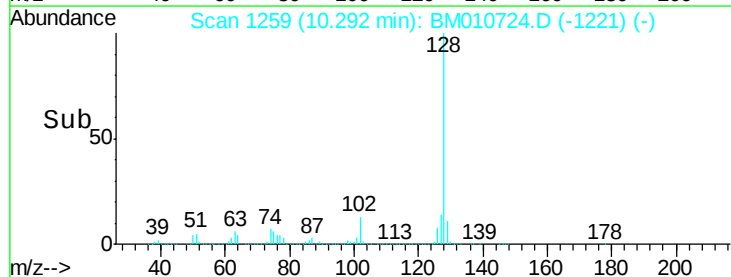
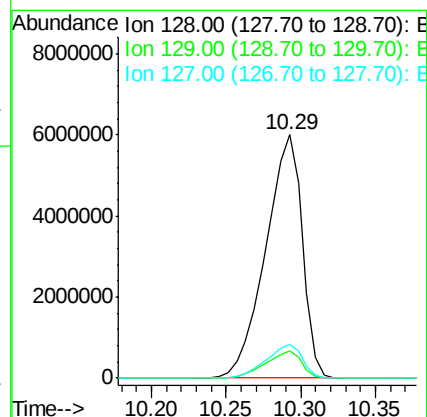
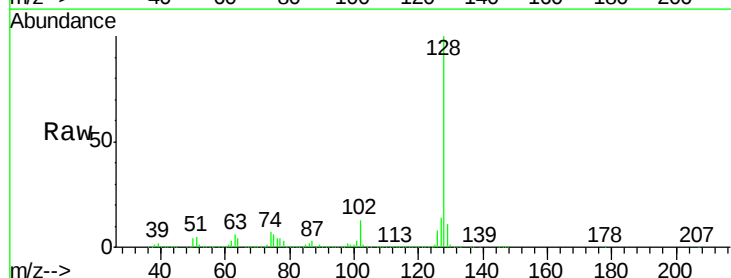
Tgt Ion:128 Resp:10195921

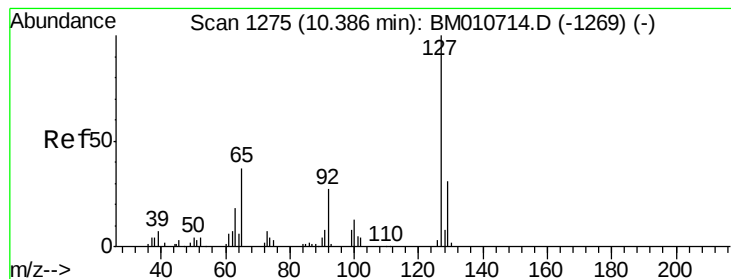
Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

127 13.6 10.6 16.0





#30

4-Chloroaniline

Concen: 230.20 ng/ul

RT: 10.29 min Scan# 1259

Delta R.T. -0.09 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

Instrument :

BNA_M

ClientSampleId :

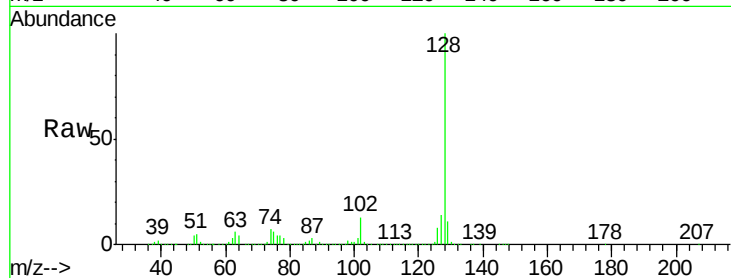
F5B22ME

Tgt Ion:127 Resp: 1384253

Ion Ratio Lower Upper

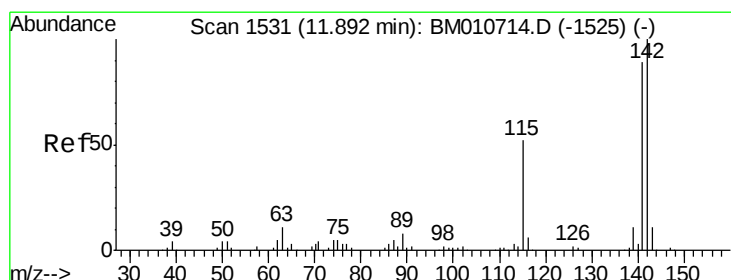
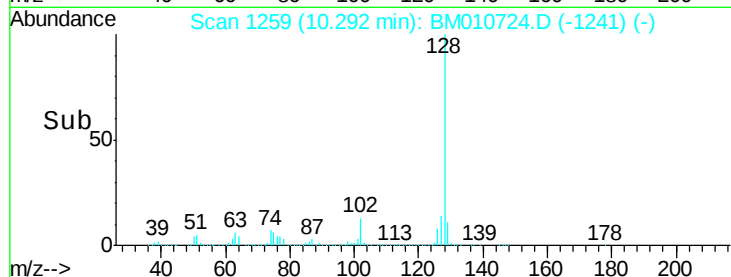
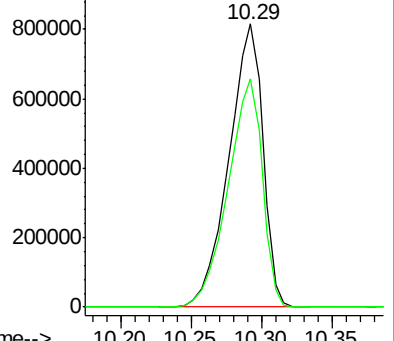
127 100

129 80.9 28.4 42.6#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E



#34

2-Methylnaphthalene

Concen: 144.52 ng/ul

RT: 11.90 min Scan# 1533

Delta R.T. 0.01 min

Lab File: BM010724.D

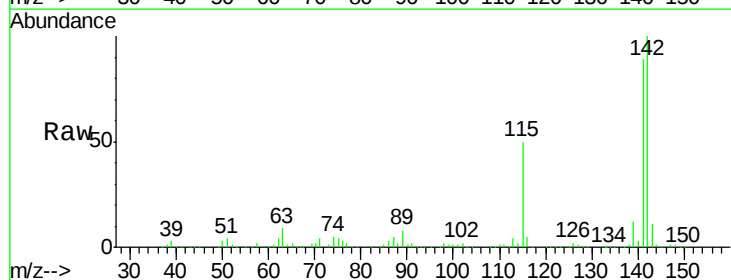
Acq: 24 Jun 2017 11:38

Tgt Ion:142 Resp: 1895853

Ion Ratio Lower Upper

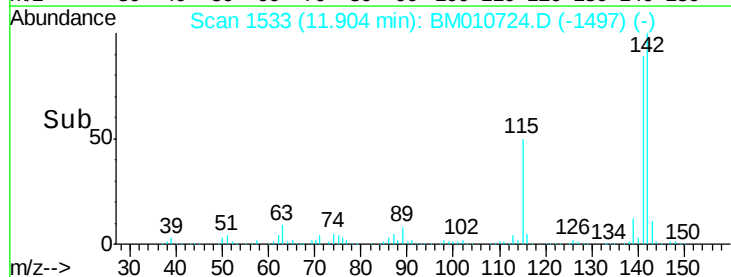
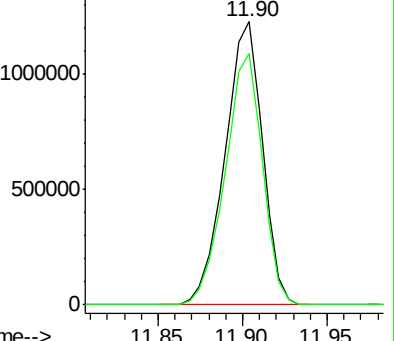
142 100

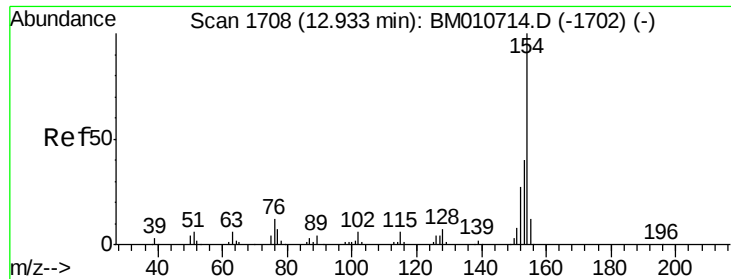
141 88.6 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

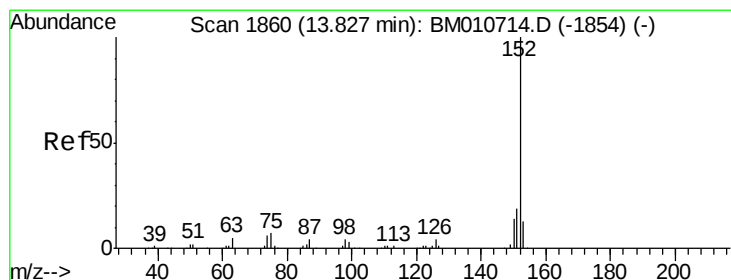
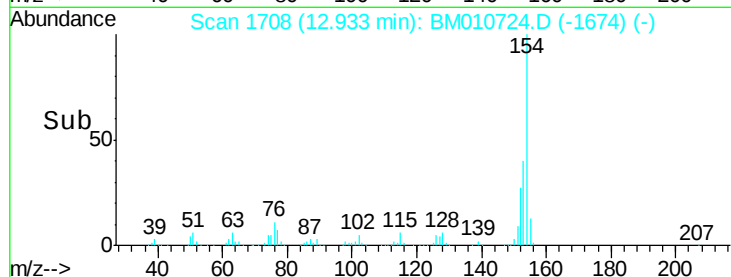
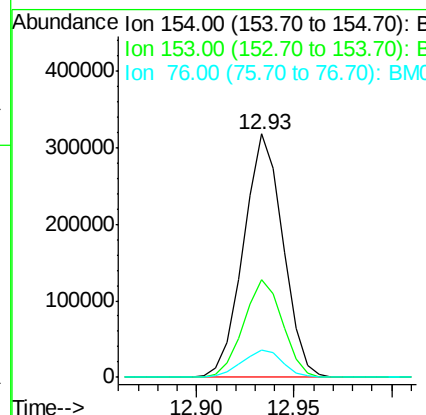
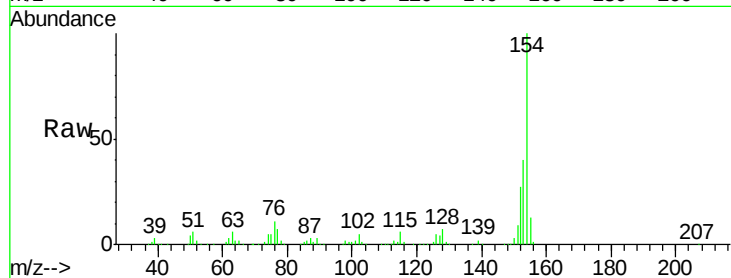




#40
1,1'-Biphenyl
Concen: 25.17 ng/ul
RT: 12.93 min Scan# 1708
Delta R.T. 0.00 min
Lab File: BM010724.D
Acq: 24 Jun 2017 11:38

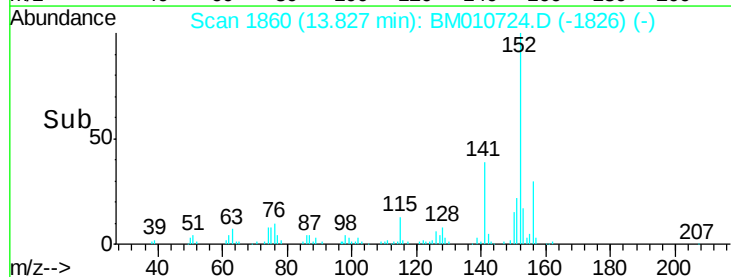
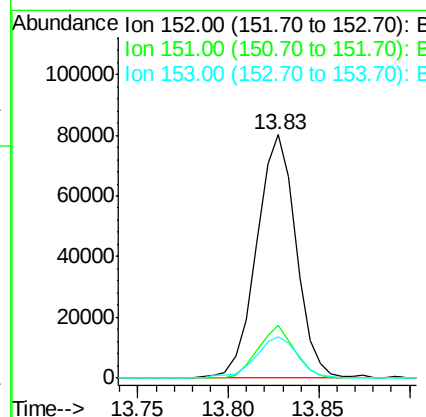
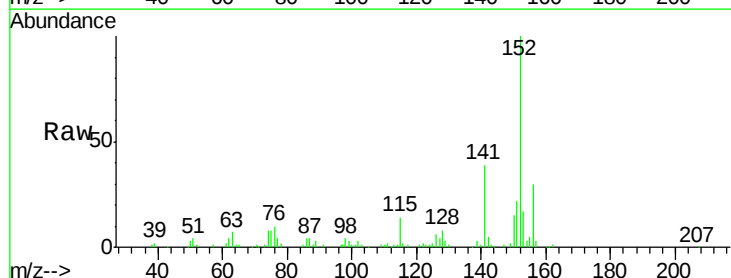
Instrument :
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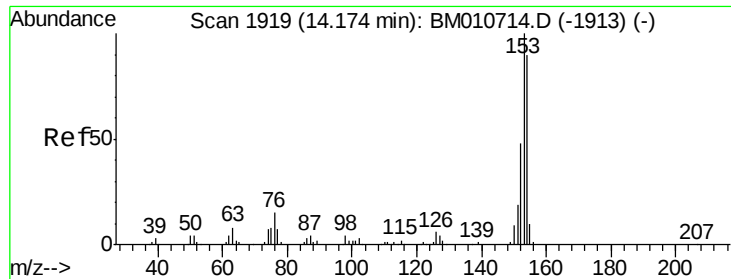
Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.1	32.6	48.8
76	11.4	8.5	12.7



#47
Acenaphthylene
Concen: 5.49 ng/ul
RT: 13.83 min Scan# 1860
Delta R.T. 0.00 min
Lab File: BM010724.D
Acq: 24 Jun 2017 11:38

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.6	16.3	24.5
153	16.9	10.2	15.4





#49

Acenaphthene

Concen: 93.90 ng/ul

RT: 14.18 min Scan# 1920

Delta R.T. 0.01 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

Instrument :

BNA_M

ClientSampleId :

F5B22ME

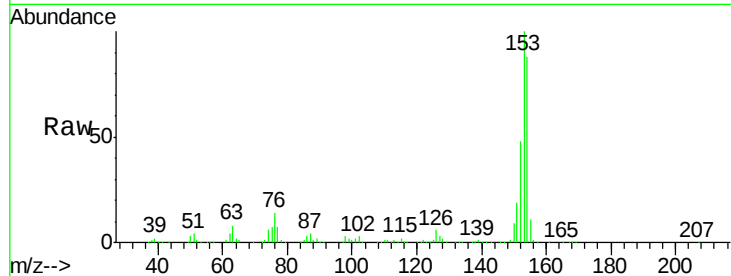
Tgt Ion:153 Resp: 1396073

Ion Ratio Lower Upper

153 100

152 47.8 37.6 56.4

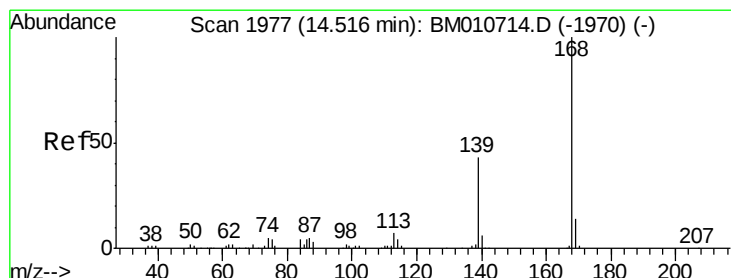
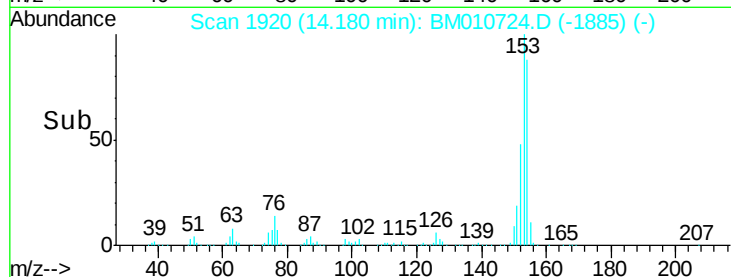
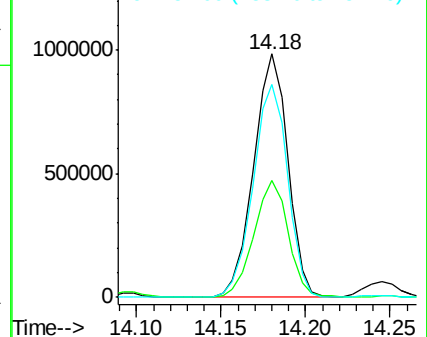
154 87.5 70.4 105.6



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: 70.74 ng/ul

RT: 14.52 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BM010724.D

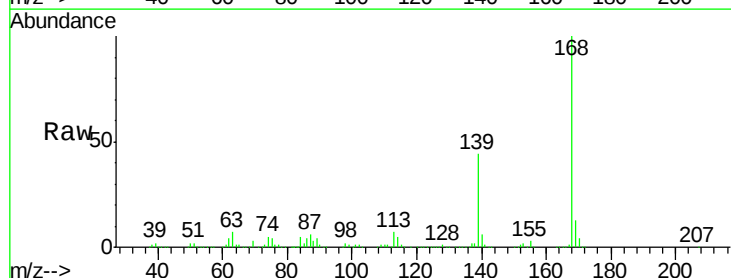
Acq: 24 Jun 2017 11:38

Tgt Ion:168 Resp: 1592864

Ion Ratio Lower Upper

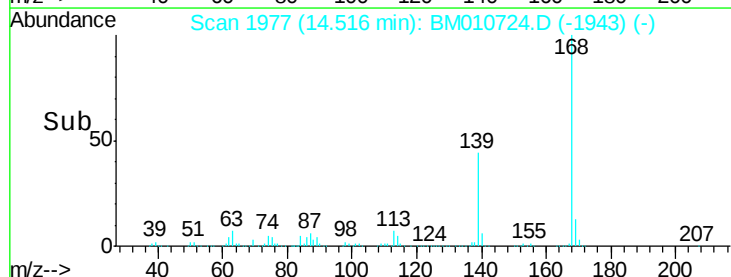
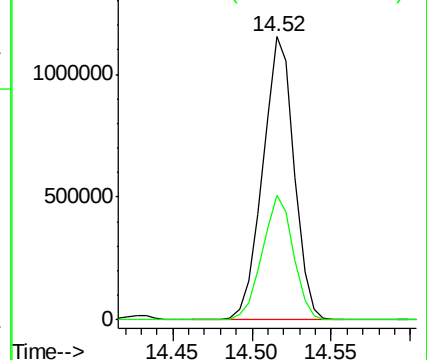
168 100

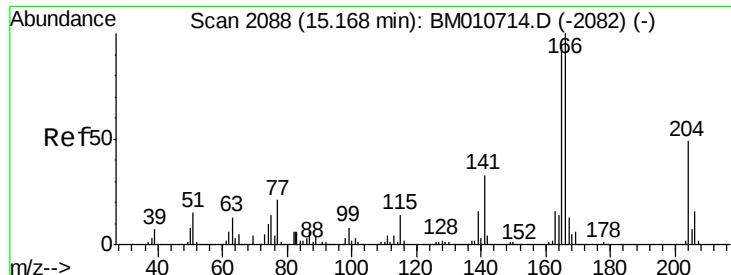
139 44.2 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 89.00 ng/ul

RT: 15.17 min Scan# 2089

Delta R.T. 0.01 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

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F5B22ME

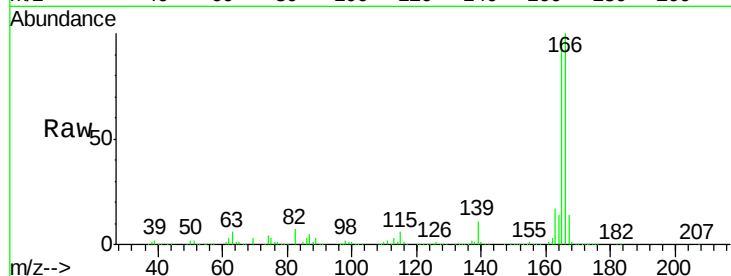
Tgt Ion:166 Resp: 1677877

Ion Ratio Lower Upper

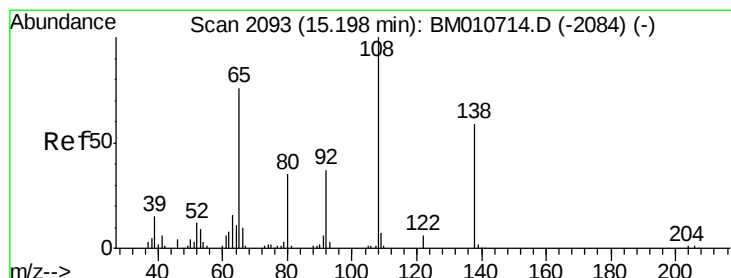
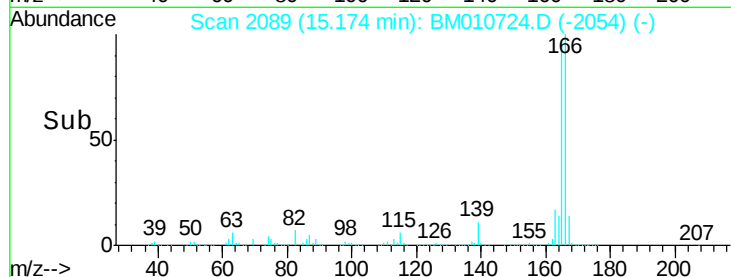
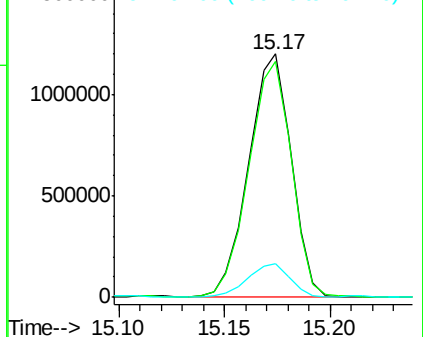
166 100

165 96.8 77.9 116.9

167 13.8 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#60

4-Nitroaniline

Concen: 5.52 ng/ul

RT: 15.17 min Scan# 2088

Delta R.T. -0.03 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

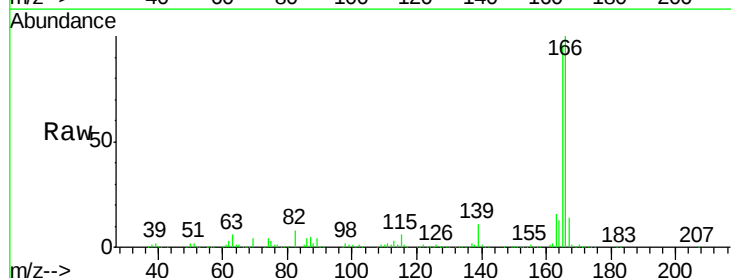
Tgt Ion:138 Resp: 22228

Ion Ratio Lower Upper

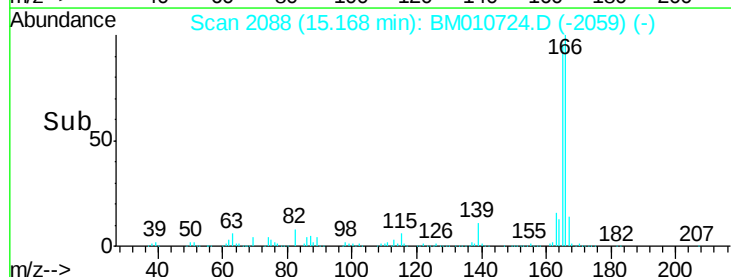
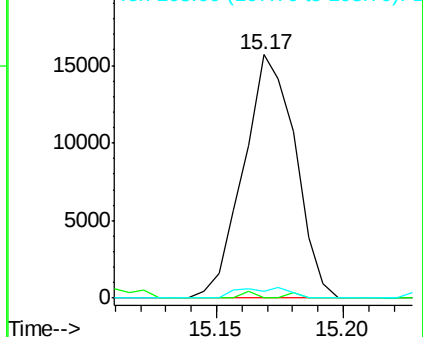
138 100

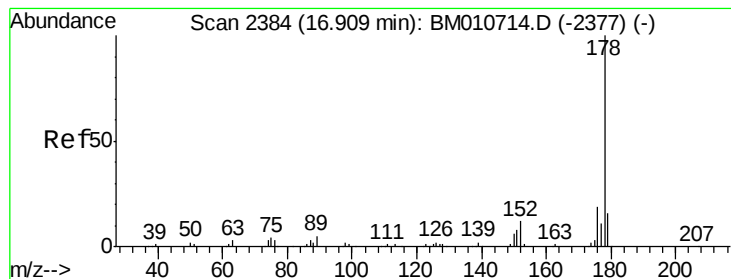
92 0.0 52.7 79.1#

108 2.6 140.4 210.6#



Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BM0
Ion 108.00 (107.70 to 108.70): E





#69

Phenanthrene

Concen: 268.83 ng/u1

RT: 16.92 min Scan# 2386

Delta R.T. 0.01 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

Instrument :

BNA_M

ClientSampleId :

F5B22ME

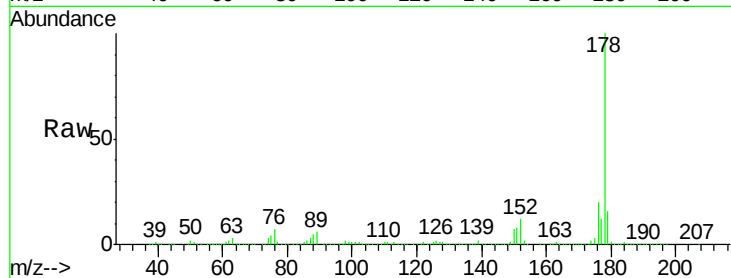
Tgt Ion:178 Resp: 8058022

Ion Ratio Lower Upper

178 100

179 15.6 12.6 19.0

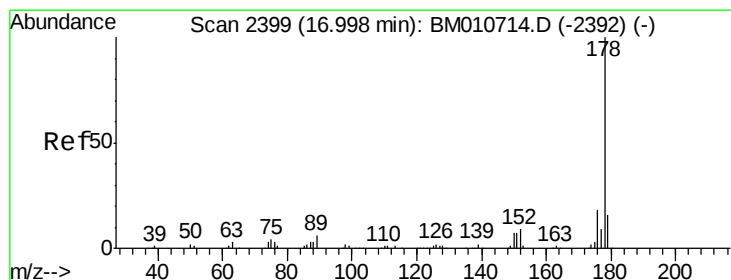
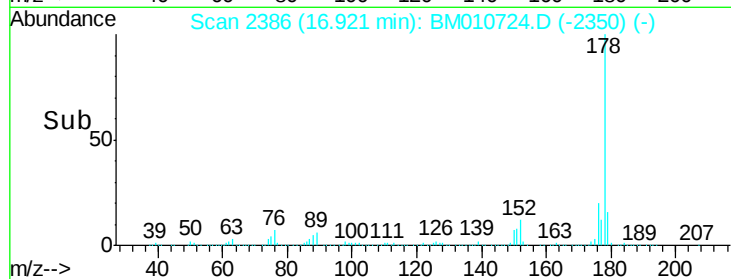
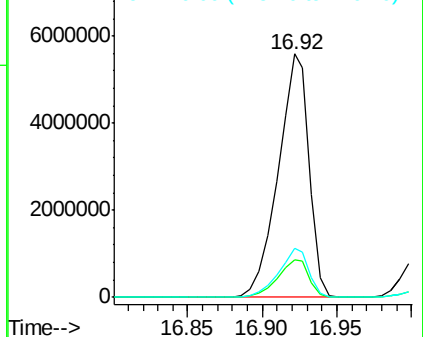
176 20.0 14.9 22.3



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



#71

Anthracene

Concen: 37.77 ng/u1

RT: 17.00 min Scan# 2400

Delta R.T. 0.01 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

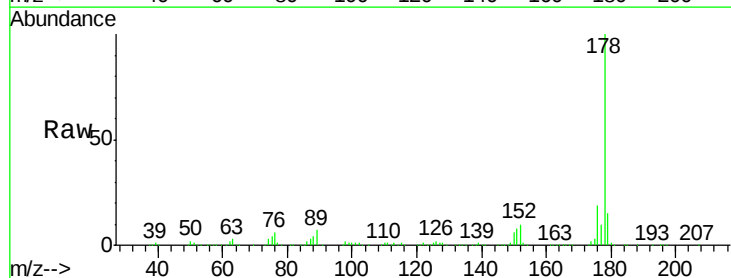
Tgt Ion:178 Resp: 1166293

Ion Ratio Lower Upper

178 100

179 15.3 11.7 17.5

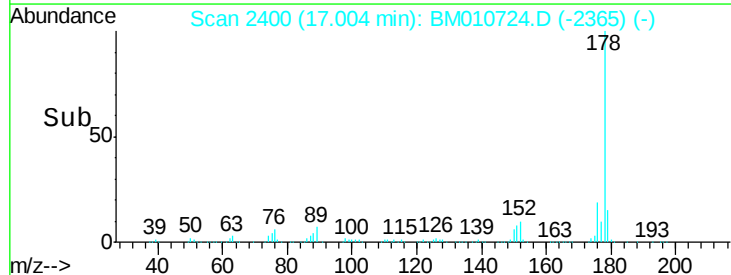
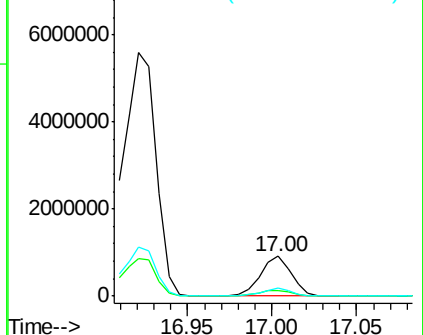
176 19.1 14.6 21.8

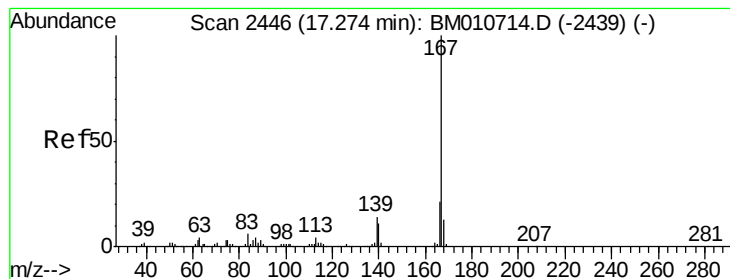


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 20.17 ng/ul

RT: 17.27 min Scan# 2446

Delta R.T. 0.00 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

Instrument :

BNA_M

ClientSampleId :

F5B22ME

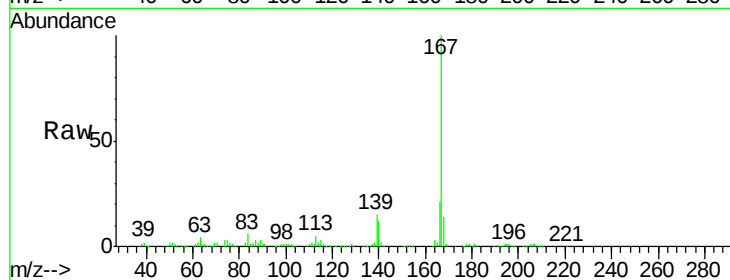
Tgt Ion:167 Resp: 543457

Ion Ratio Lower Upper

167 100

166 21.3 17.1 25.7

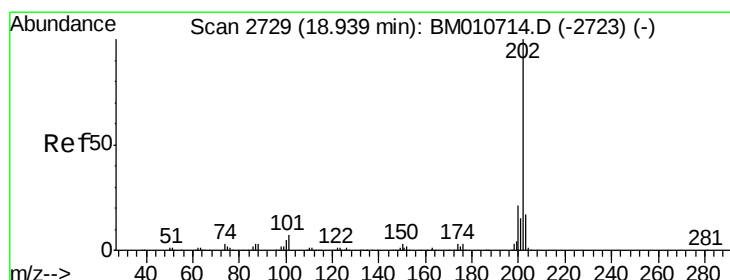
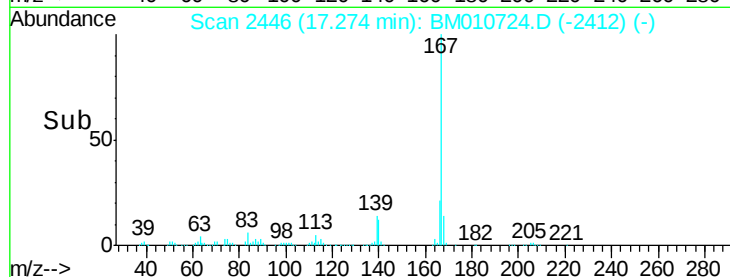
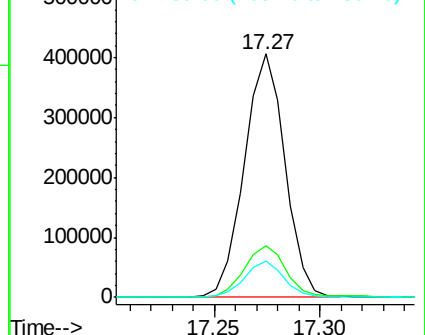
139 14.7 10.0 15.0



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



#74

Fluoranthene

Concen: 127.99 ng/ul

RT: 18.95 min Scan# 2731

Delta R.T. 0.01 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

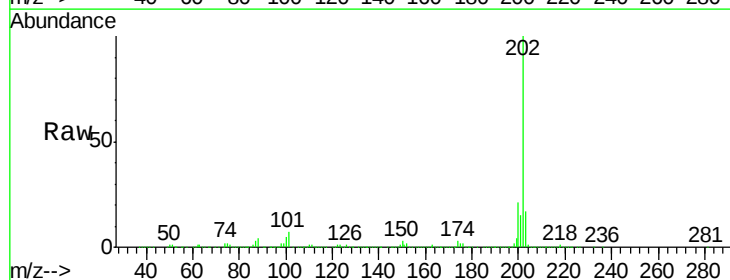
Tgt Ion:202 Resp: 4944326

Ion Ratio Lower Upper

202 100

101 6.7 4.6 7.0

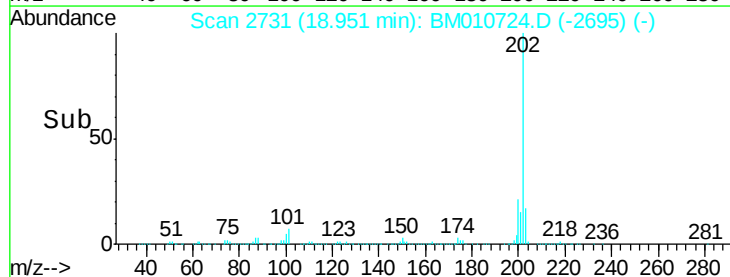
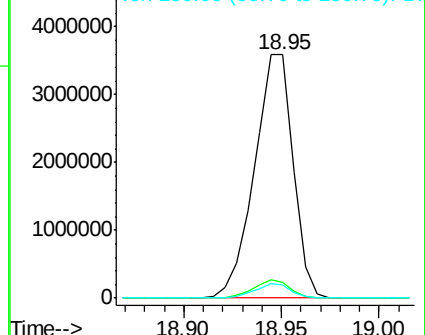
100 5.2 3.4 5.2#

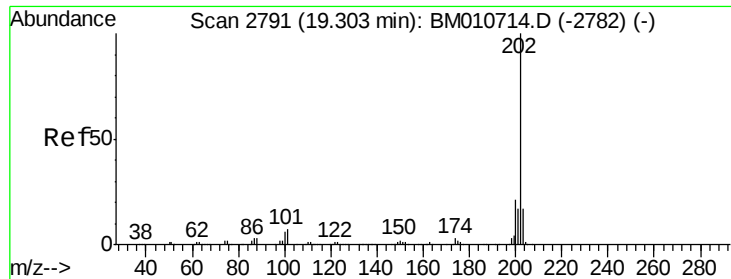


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pyrene

Concen: 84.91 ng/ul

RT: 19.31 min Scan# 2792

Delta R.T. 0.01 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

Instrument :

BNA_M

ClientSampleId :

F5B22ME

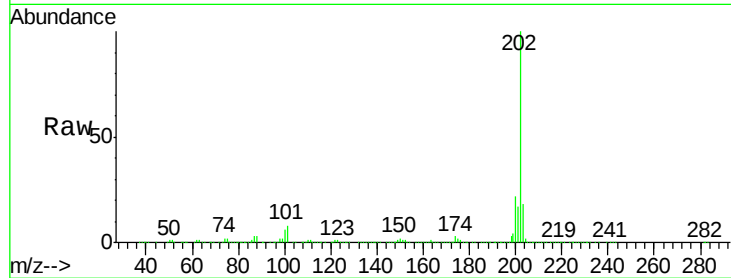
Tgt Ion:202 Resp: 3174707

Ion Ratio Lower Upper

202 100

101 8.0 5.1 7.7#

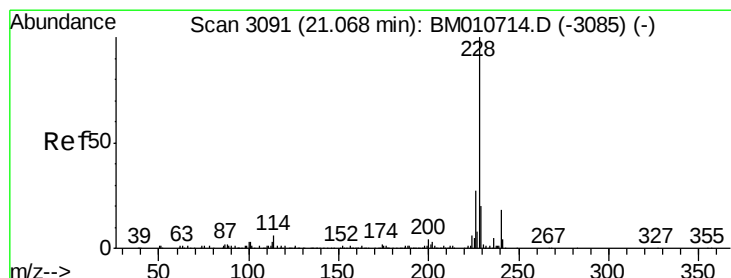
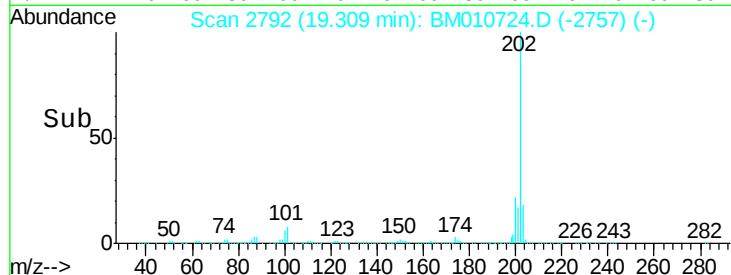
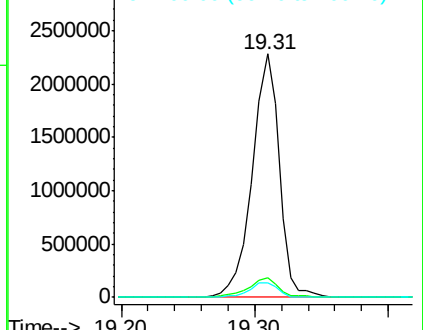
100 6.2 4.9 7.3



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



#80

Benzo(a)anthracene

Concen: 25.27 ng/ul

RT: 21.07 min Scan# 3091

Delta R.T. 0.00 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

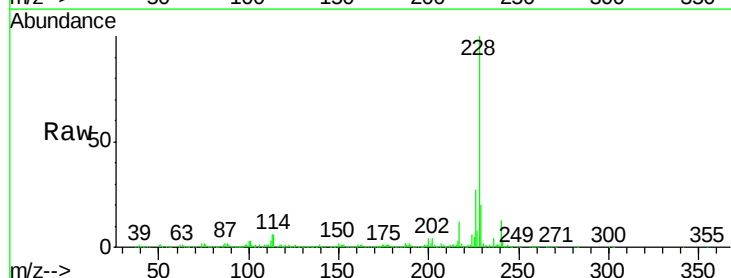
Tgt Ion:228 Resp: 952611

Ion Ratio Lower Upper

228 100

229 19.8 15.4 23.0

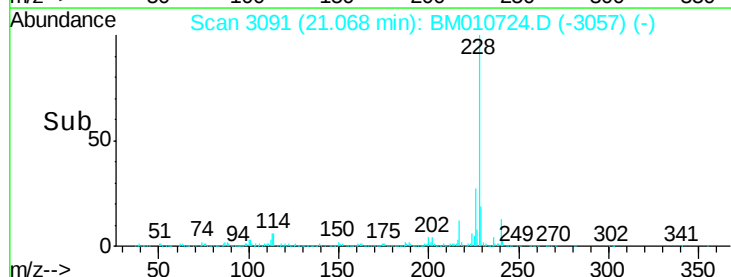
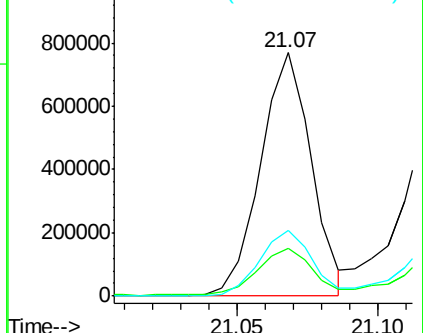
226 27.0 21.4 32.0

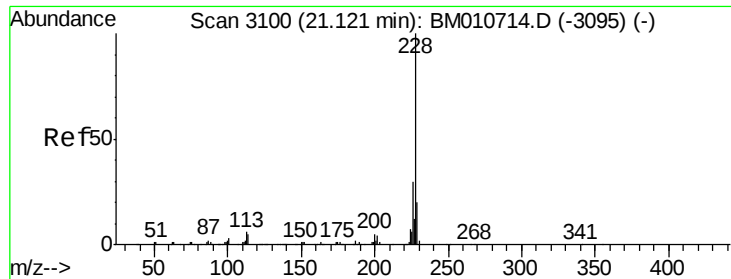


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 21.31 ng/ul

RT: 21.12 min Scan# 3100

Delta R.T. 0.00 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

Instrument :

BNA_M

ClientSampleId :

F5B22ME

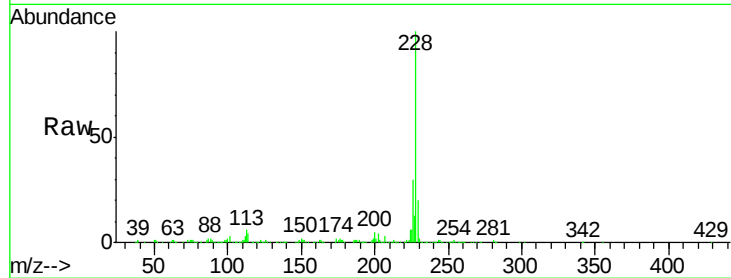
Tgt Ion:228 Resp: 716248

Ion Ratio Lower Upper

228 100

226 30.2 23.4 35.2

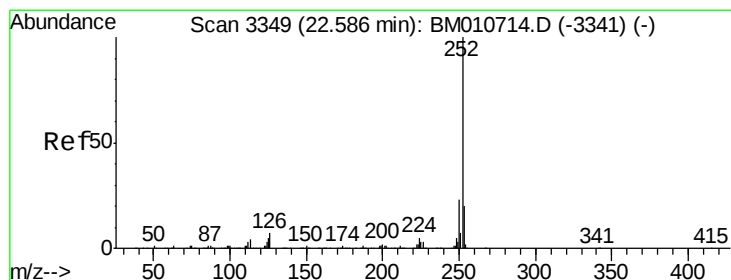
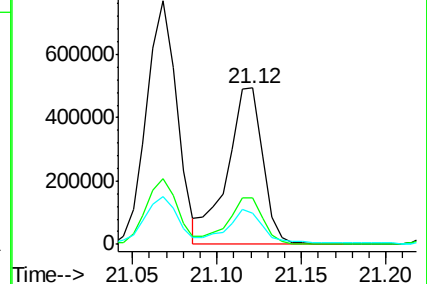
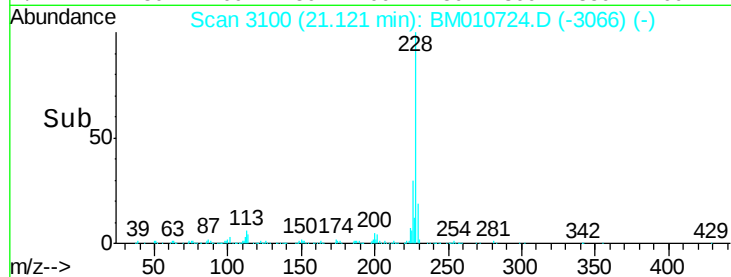
229 20.1 15.5 23.3



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: 14.44 ng/ul

RT: 22.59 min Scan# 3349

Delta R.T. 0.00 min

Lab File: BM010724.D

Acq: 24 Jun 2017 11:38

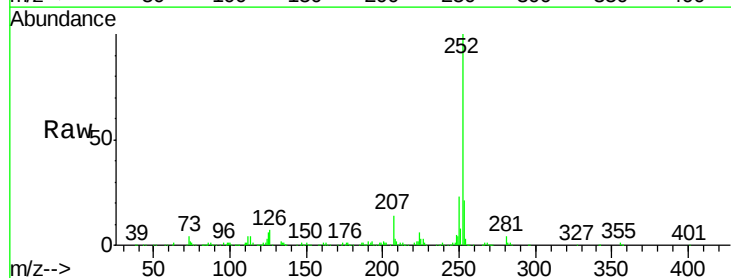
Tgt Ion:252 Resp: 454340

Ion Ratio Lower Upper

252 100

253 21.2 17.9 26.9

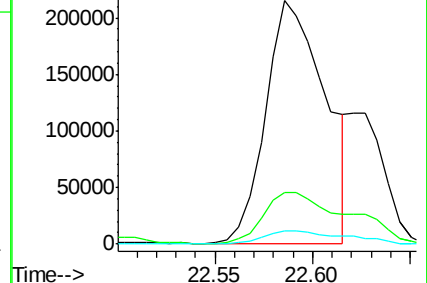
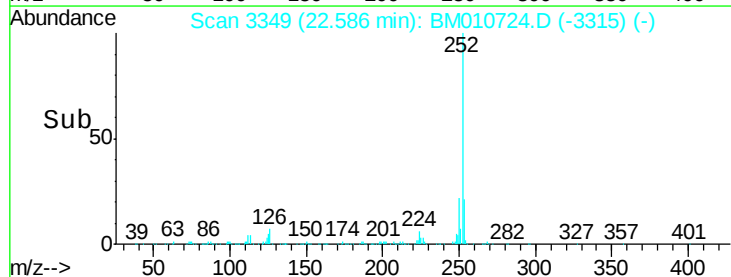
125 5.7 3.6 5.4#

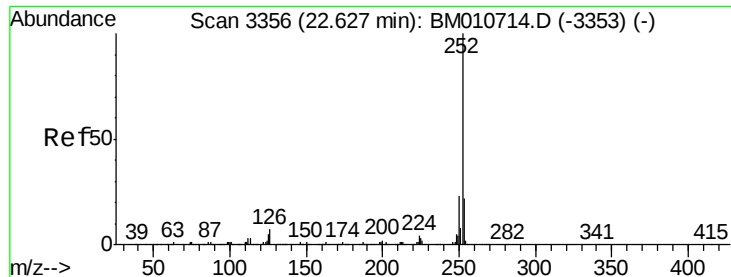


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

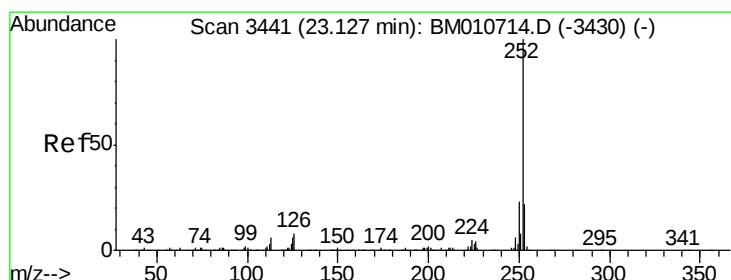
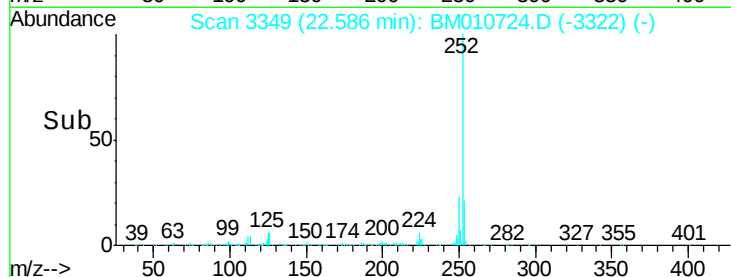
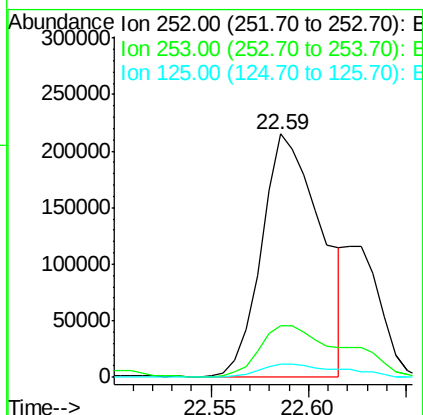
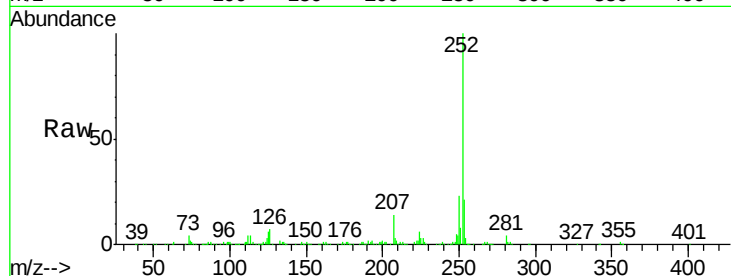




#86
Benzo(k)fluoranthene
Concen: 15.24 ng/u1
RT: 22.59 min Scan# 3349
Delta R.T. -0.04 min
Lab File: BM010724.D
Acq: 24 Jun 2017 11:38

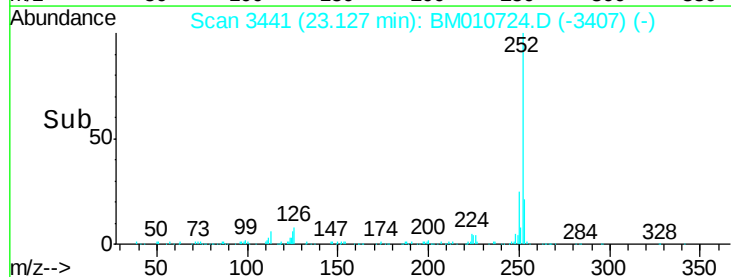
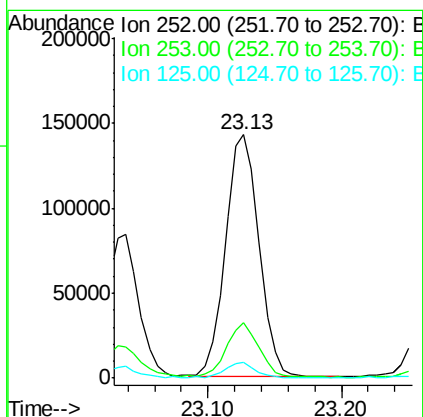
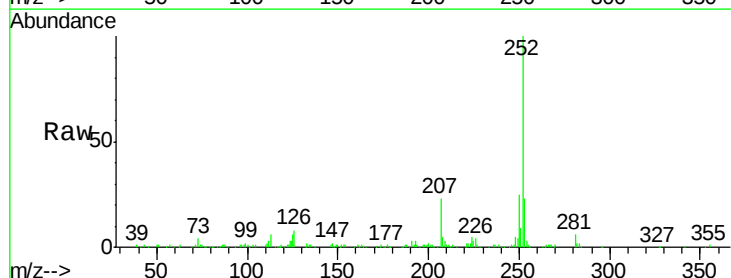
Instrument :
BNA_M
ClientSampleId :
F5B22ME

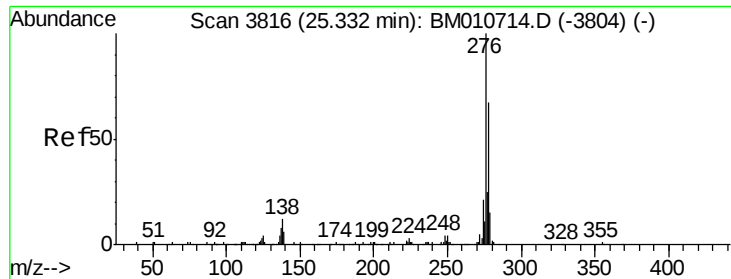
Tgt Ion:252 Resp: 454340
Ion Ratio Lower Upper
252 100
253 21.2 17.1 25.7
125 5.7 3.4 5.2#



#88
Benzo(a)pyrene
Concen: 8.63 ng/u1
RT: 23.13 min Scan# 3441
Delta R.T. 0.00 min
Lab File: BM010724.D
Acq: 24 Jun 2017 11:38

Tgt Ion:252 Resp: 249775
Ion Ratio Lower Upper
252 100
253 22.7 18.2 27.2
125 6.4 4.0 6.0#

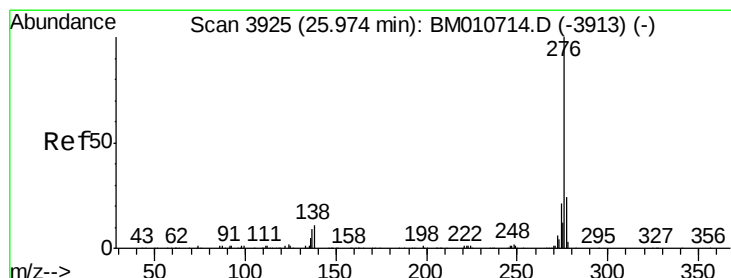
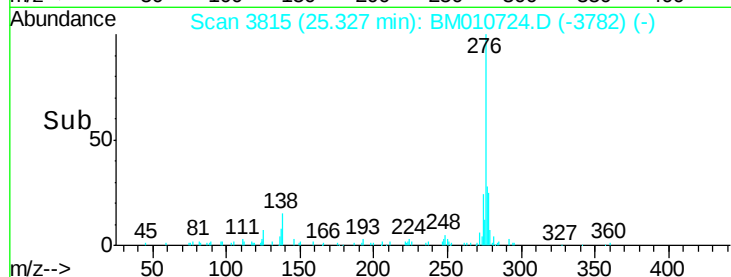
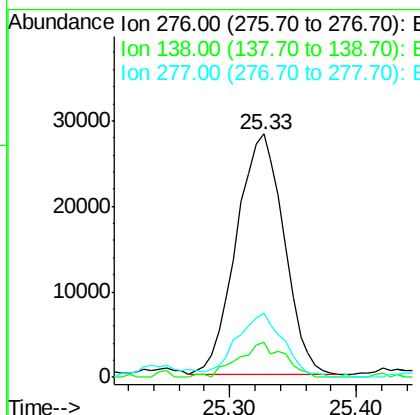
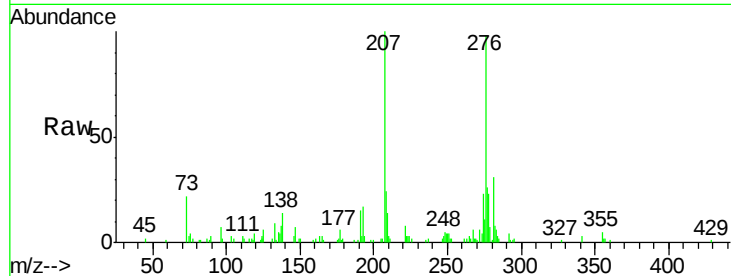




#89
 Indeno(1,2,3-cd)pyrene
 Concen: 2.45 ng/ul
 RT: 25.33 min Scan# 3815
 Delta R.T. -0.01 min
 Lab File: BM010724.D
 Acq: 24 Jun 2017 11:38

Instrument :
 BNA_M
 ClientSampleId :
 F5B22ME

Tgt Ion: 276 Resp: 73677
 Ion Ratio Lower Upper
 276 100
 138 14.4 9.3 13.9#
 277 26.6 19.9 29.9



#91
 Benzo(g,h,i)perylene
 Concen: 1.73 ng/ul
 RT: 25.97 min Scan# 3924
 Delta R.T. -0.01 min
 Lab File: BM010724.D
 Acq: 24 Jun 2017 11:38

Tgt Ion: 276 Resp: 41294
 Ion Ratio Lower Upper
 276 100
 138 13.8 8.5 12.7#
 277 24.2 18.6 28.0

