

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM022417\
 Data File : BM009012.D
 Acq On : 24 Feb 2017 11:37
 Operator : SJ/MA
 Sample : I1940-09
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DABP4

Quant Time: Feb 24 13:16:11 2017
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM022317.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Feb 24 13:06:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.90	152	177631	20.00	ng/ul	0.00
18) Naphthalene-d8	10.70	136	725282	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.54	164	442447	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.29	188	1089844	20.00	ng/ul	0.00
75) Chrysene-d12	21.46	240	1341619	20.00	ng/ul	0.00
83) Perylene-d12	23.80	264	1220779	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.36	96	19130	4.33	ng/uL	0.00
5) Phenol-d5	7.05	99	398775	24.77	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.23	67	298088	25.85	ng/ul	0.00
9) 2-Chlorophenol-d4	7.43	132	256913	23.95	ng/ul	0.00
13) 4-Methylphenol-d8	8.59	113	299837	25.36	ng/ul	0.00
19) Nitrobenzene-d5	9.06	128	125961	24.27	ng/ul	0.00
22) 2-Nitrophenol-d4	9.79	143	145813	26.04	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.31	165	282341	24.01	ng/ul	0.00
29) 4-Chloroaniline-d4	10.84	131	366850	29.60	ng/ul	0.00
43) Dimethylphthalate-d6	13.95	166	985769	33.09	ng/ul	0.00
46) Acenaphthylene-d8	14.23	160	1186802	32.44	ng/ul	0.00
51) 4-Nitrophenol-d4	14.73	143	153083	29.43	ng/ul	0.00
57) Fluorene-d10	15.53	176	902436	32.45	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.65	200	140773	21.46	ng/ul	0.00
70) Anthracene-d10	17.38	188	1489451	28.86	ng/ul	0.00
76) Pyrene-d10	19.67	212	1757592	30.05	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.65	264	1624051	29.30	ng/ul	0.00

Target Compounds

						Qvalue
4) Benzaldehyde	7.05	77	475238	39.26	ng/ul	88
10) 2-Chlorophenol	7.46	128	50022	4.48	ng/ul#	66
23) 2-Nitrophenol	9.82	139	224386	37.21	ng/ul#	65
28) Naphthalene	10.75	128	260983	7.18	ng/ul	97
31) Hexachlorobutadiene	11.02	225	165554	17.20	ng/ul	98
33) 4-Chloro-3-methylphenol	11.97	107	183200	13.57	ng/ul#	93
36) 1,2,4,5-Tetrachlorobenzene	12.72	216	124269	8.63	ng/ul#	92
38) 2,4,6-Trichlorophenol	12.96	196	168716	20.54	ng/ul	98
40) 1,1'-Biphenyl	13.37	154	829036	27.17	ng/ul	98
44) Dimethylphthalate	13.99	163	941837	31.60	ng/ul	97
45) 2,6-Dinitrotoluene	14.12	165	104341	18.37	ng/ul	83
52) 4-Nitrophenol	14.74	109	325868	48.90	ng/ul#	79
53) Dibenzofuran	14.93	168	430409	11.48	ng/ul	98
63) 4,6-Dinitro-2-methylphenol	15.66	198	126845	18.41	ng/ul#	77
66) Hexachlorobenzene	16.58	284	110281	8.09	ng/ul	100
68) Pentachlorophenol	16.93	266	136298	16.15	ng/ul	95
69) Phenanthrene	17.33	178	1484328	24.64	ng/ul	98
71) Anthracene	17.42	178	629082	10.24	ng/ul	96
73) Di-n-butylphthalate	18.24	149	976039	15.84	ng/ul	97
74) Fluoranthene	19.34	202	1486623	20.41	ng/ul#	97
77) Pyrene	19.70	202	1617064	21.58	ng/ul#	94
81) Bis(2-ethylhexyl)phthalate	21.35	149	819897	20.98	ng/ul	94
82) Chrysene	21.49	228	1295820	17.81	ng/ul	99

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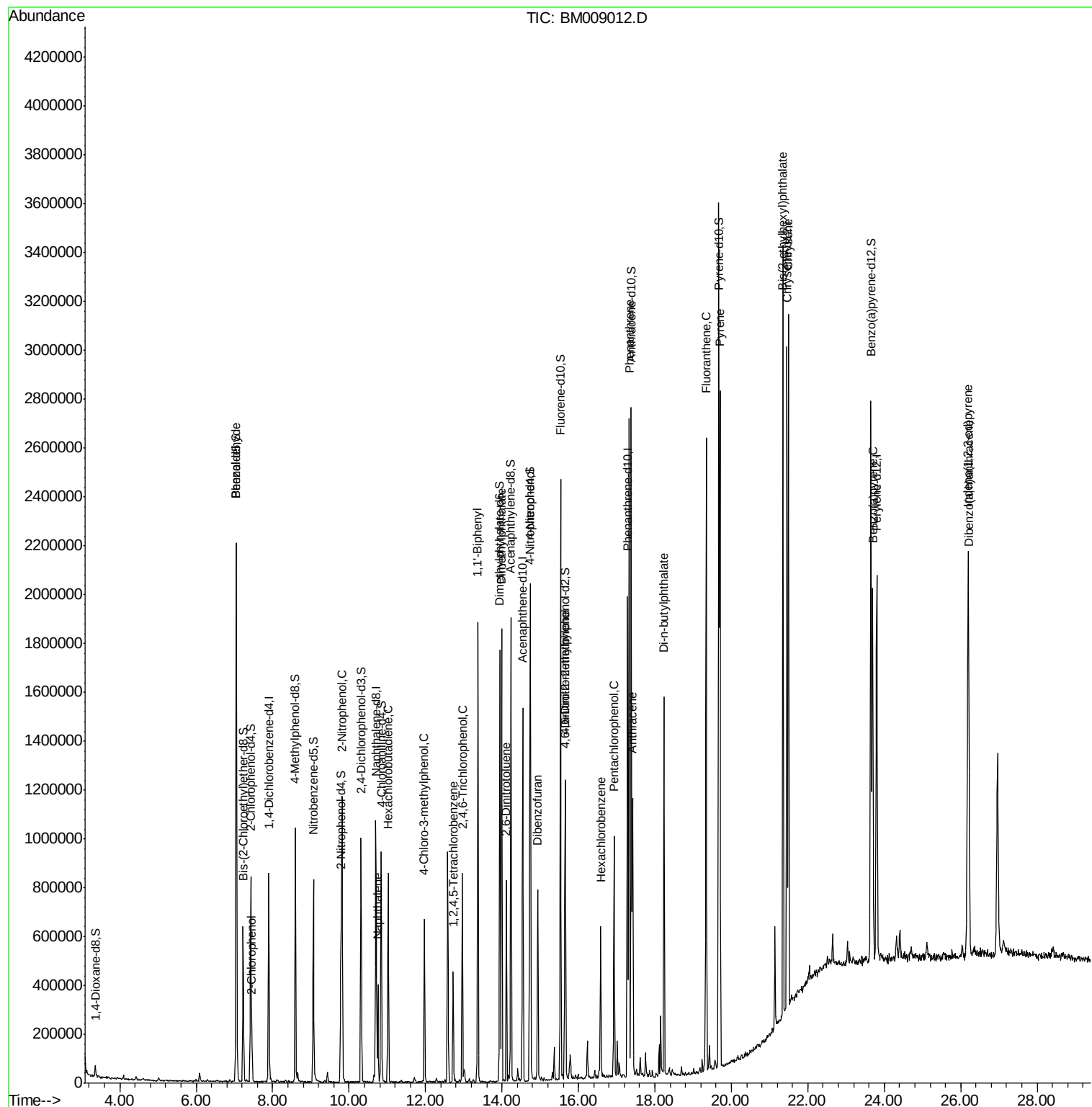
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(a)pyrene	23.70	252	1119779	16.08	ng/ul#	99
89) Indeno(1,2,3-cd)pyrene	26.19	276	1402353	17.73	ng/ul#	92
90) Dibenzo(a,h)anthracene	26.21	278	751044	11.15	ng/ul#	95

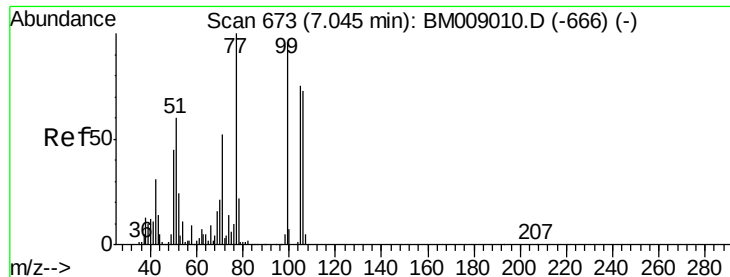
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 39.26 ng/ul

RT: 7.05 min Scan# 673

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

Instrument :

BNA_M

ClientSampleId :

DABP4

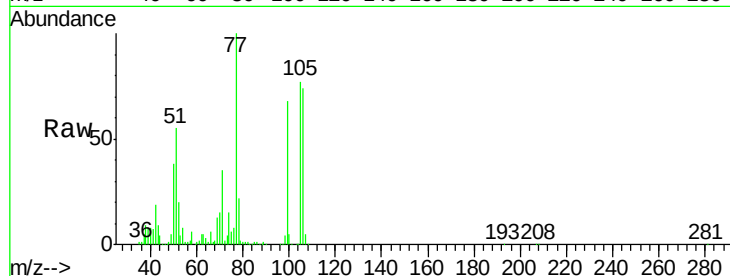
Tgt Ion: 77 Resp: 475238

Ion Ratio Lower Upper

77 100

105 77.3 54.8 82.2

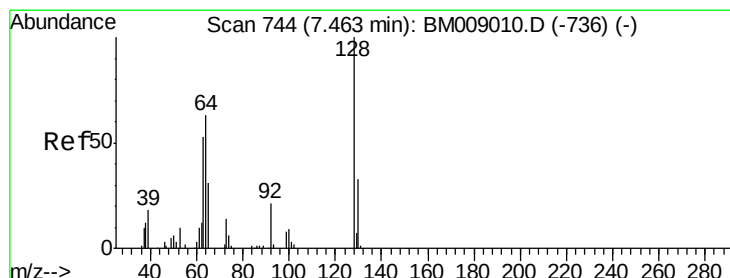
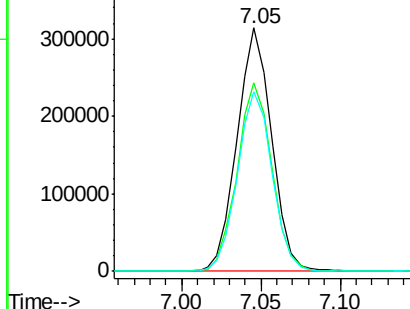
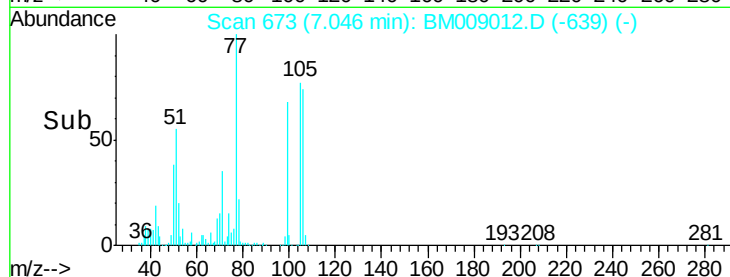
106 73.7 50.2 75.4



Abundance Ion 77.00 (76.70 to 77.70): BM009012.D (-639) (-)

Ion 105.00 (104.70 to 105.70): BM009012.D (-639) (-)

Ion 106.00 (105.70 to 106.70): BM009012.D (-639) (-)



#10

2-Chlorophenol

Concen: 4.48 ng/ul

RT: 7.46 min Scan# 744

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

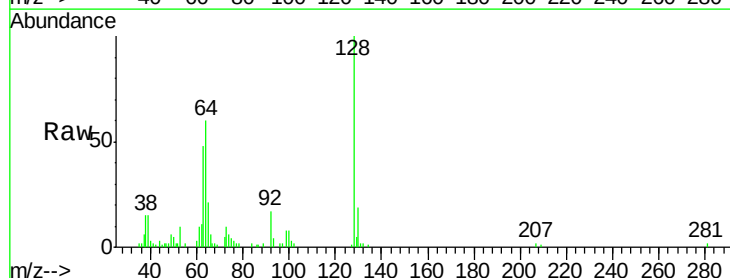
Tgt Ion: 128 Resp: 50022

Ion Ratio Lower Upper

128 100

64 59.6 76.6 115.0#

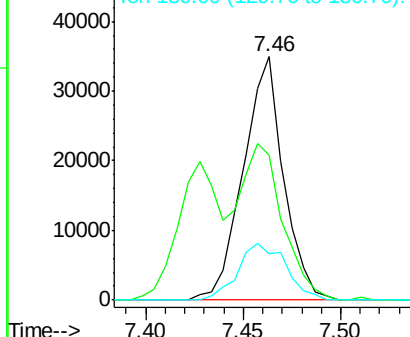
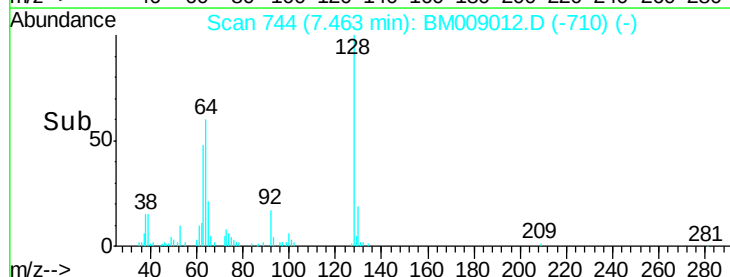
130 19.1 26.5 39.7#

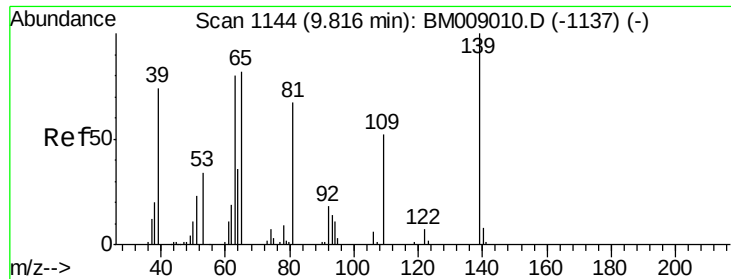


Abundance Ion 128.00 (127.70 to 128.70): BM009012.D (-710) (-)

Ion 64.00 (63.70 to 64.70): BM009012.D (-710) (-)

Ion 130.00 (129.70 to 130.70): BM009012.D (-710) (-)

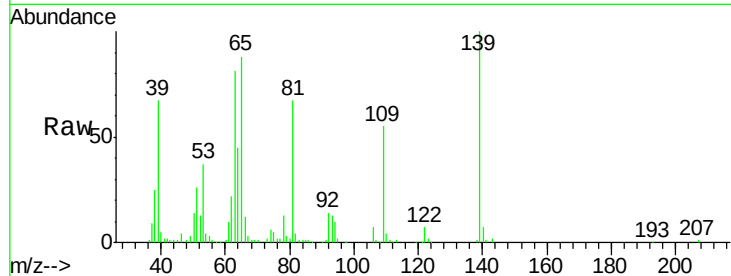




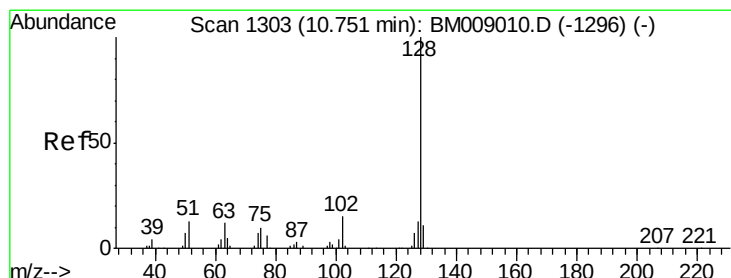
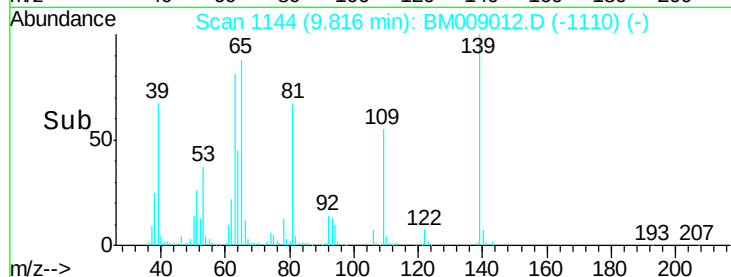
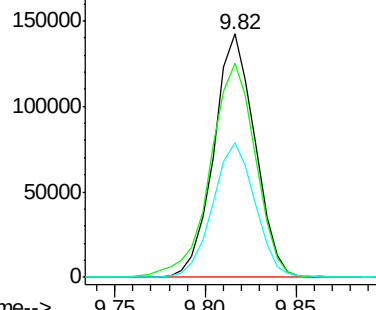
#23
2-Nitrophenol
Concen: 37.21 ng/ul
RT: 9.82 min Scan# 1144
Delta R.T. 0.00 min
Lab File: BM009012.D
Acq: 24 Feb 2017 11:37

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DABP4

Tgt Ion:139 Resp: 224386
Ion Ratio Lower Upper
139 100
65 88.0 102.7 154.1#
109 55.2 71.1 106.7#

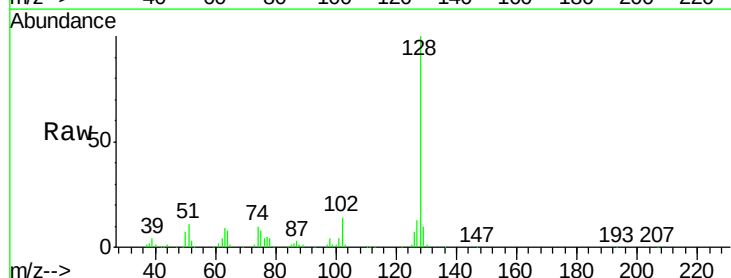


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BM009010.D (-1137) (-)
Ion 109.00 (108.70 to 109.70): E

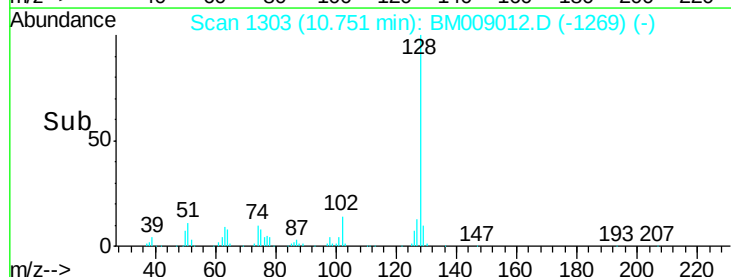
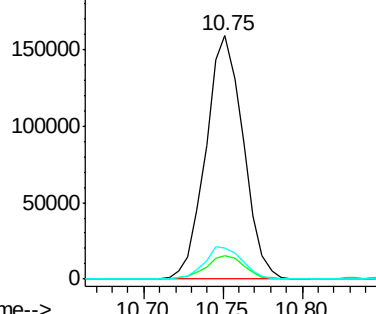


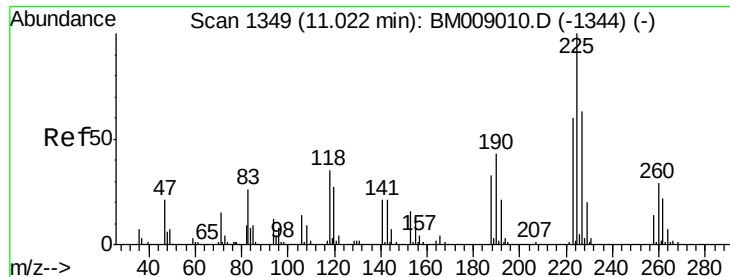
#28
Naphthalene
Concen: 7.18 ng/ul
RT: 10.75 min Scan# 1303
Delta R.T. 0.00 min
Lab File: BM009012.D
Acq: 24 Feb 2017 11:37

Tgt Ion:128 Resp: 260983
Ion Ratio Lower Upper
128 100
129 9.9 9.7 14.5
127 13.0 10.2 15.4



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





#31

Hexachlorobutadiene

Concen: 17.20 ng/ul

RT: 11.02 min Scan# 1349

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

Instrument :

BNA_M

ClientSampleId :

DABP4

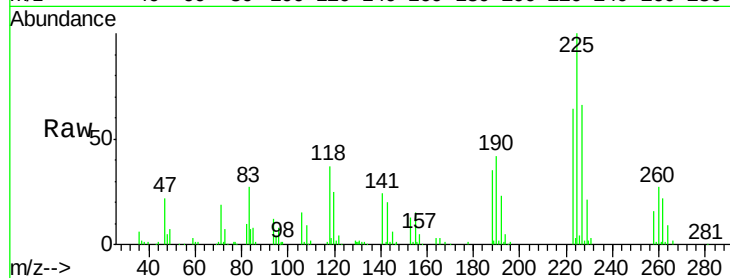
Tgt Ion: 225 Resp: 165554

Ion Ratio Lower Upper

225 100

223 63.9 50.4 75.6

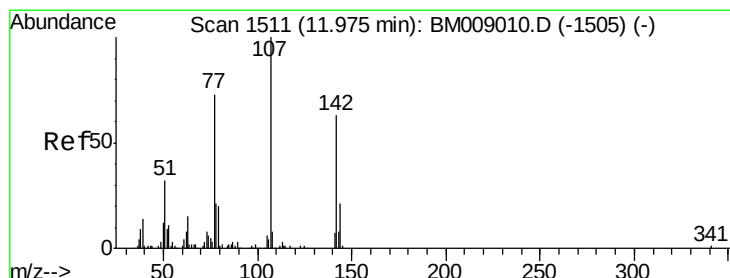
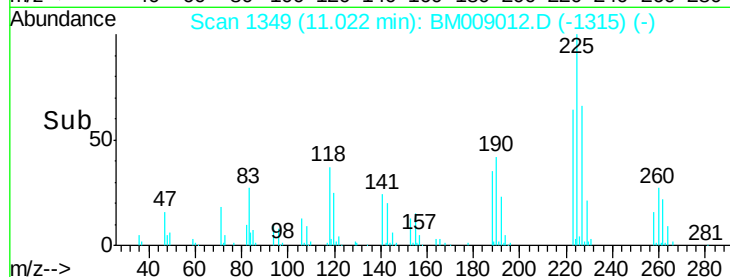
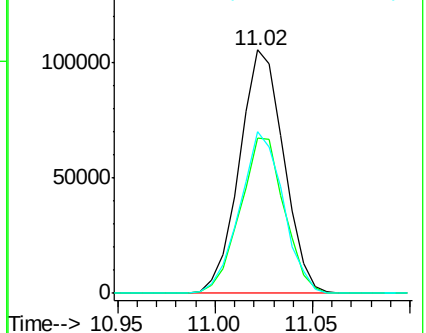
227 66.3 51.0 76.4



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#33

4-Chloro-3-methylphenol

Concen: 13.57 ng/ul

RT: 11.97 min Scan# 1510

Delta R.T. -0.01 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

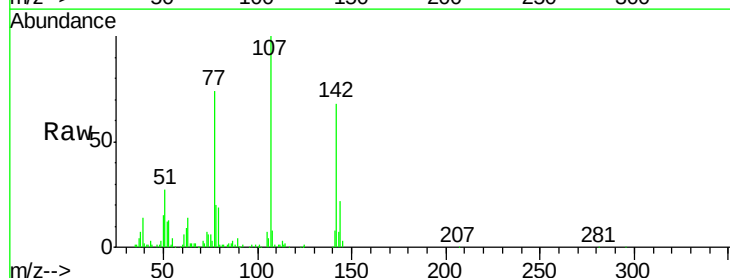
Tgt Ion: 107 Resp: 183200

Ion Ratio Lower Upper

107 100

144 22.4 14.4 21.6#

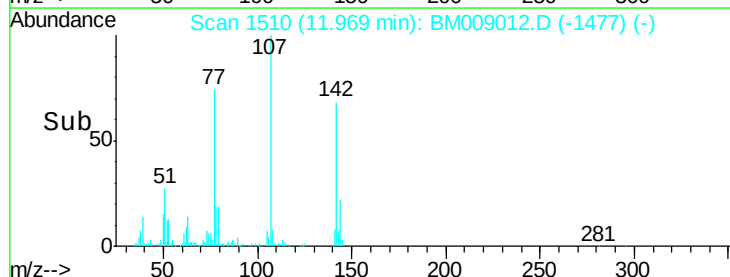
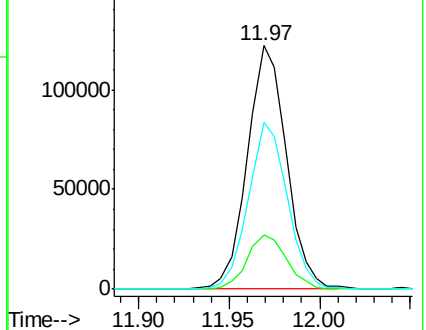
142 68.3 50.7 76.1

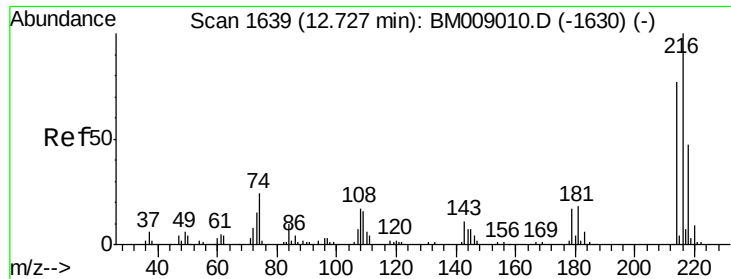


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

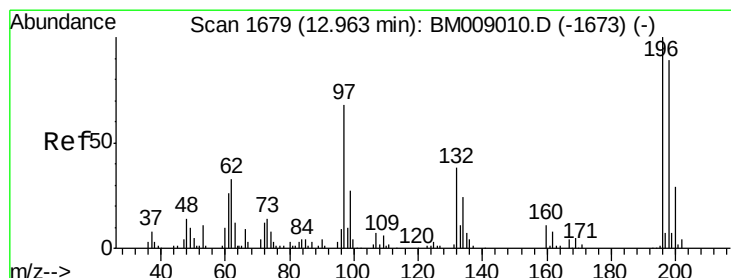
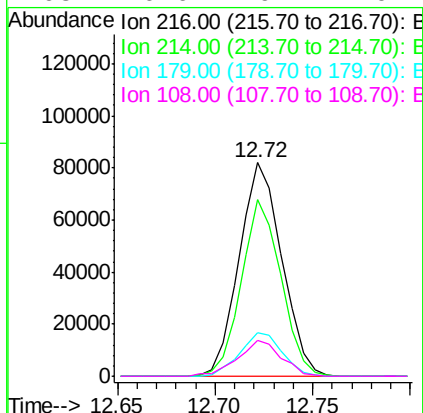
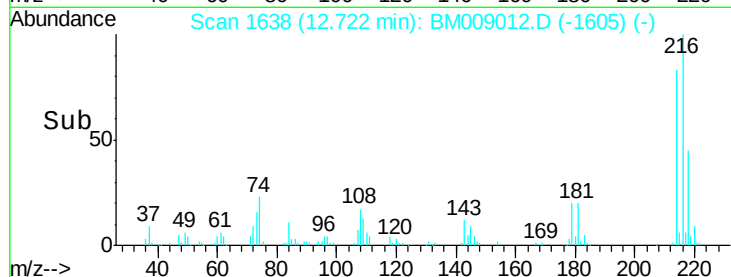
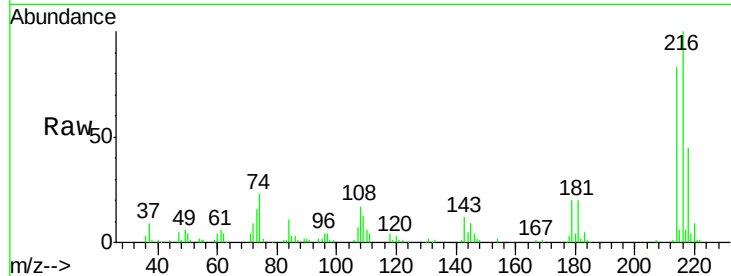




#36
 1,2,4,5-Tetrachlorobenzene
 Concen: 8.63 ng/ul
 RT: 12.72 min Scan# 1638
 Delta R.T. -0.01 min
 Lab File: BM009012.D
 Acq: 24 Feb 2017 11:37

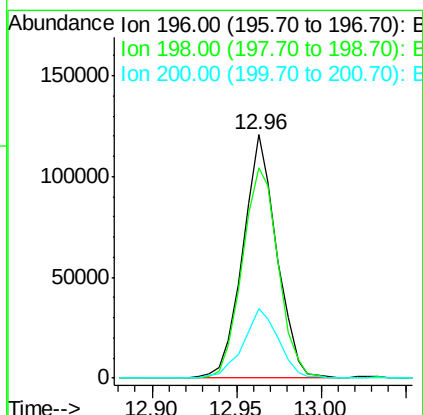
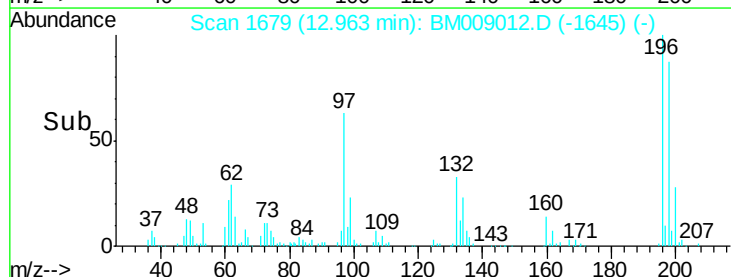
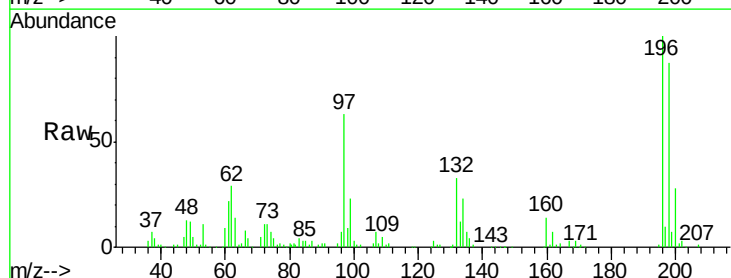
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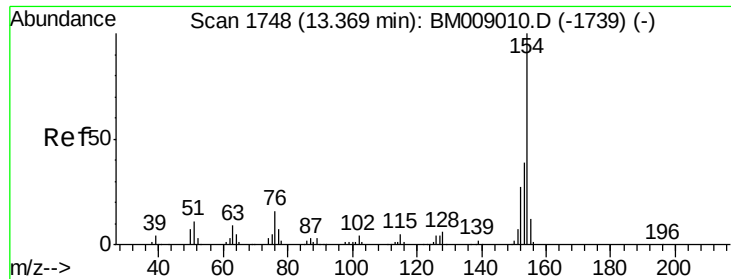
Tgt Ion:	216	Resp:	124269
Ion	Ratio	Lower	Upper
216	100		
214	82.5	61.1	91.7
179	20.2	17.7	26.5
108	16.6	19.4	29.2#



#38
 2,4,6-Trichlorophenol
 Concen: 20.54 ng/ul
 RT: 12.96 min Scan# 1679
 Delta R.T. 0.00 min
 Lab File: BM009012.D
 Acq: 24 Feb 2017 11:37

Tgt Ion:	196	Resp:	168716
Ion	Ratio	Lower	Upper
196	100		
198	86.6	70.2	105.2
200	28.4	23.8	35.6

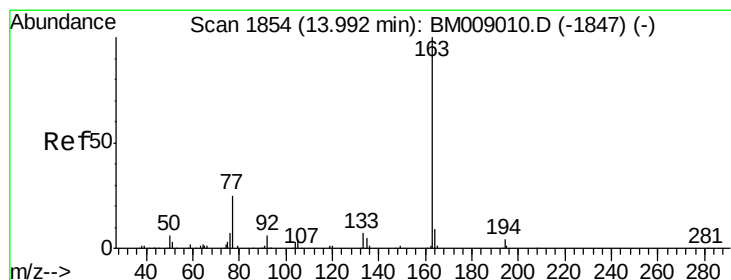
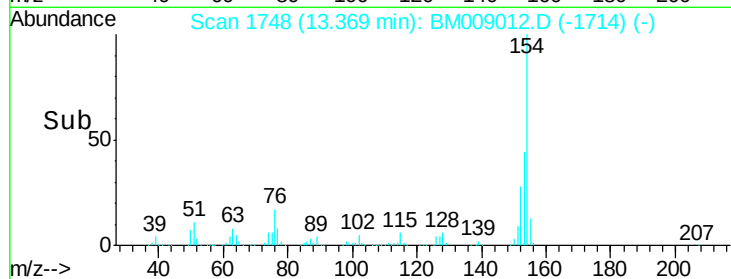
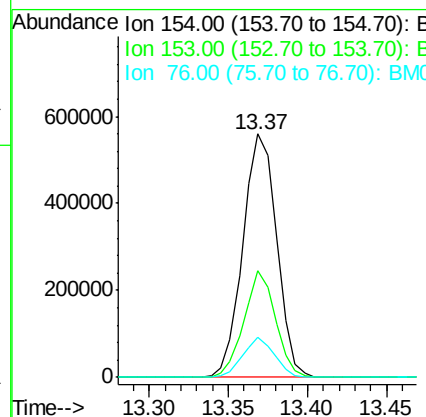
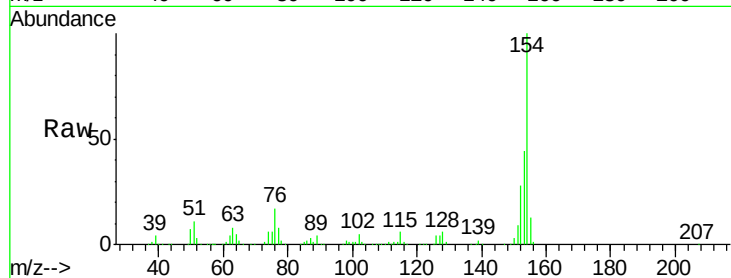




#40
 1,1'-Biphenyl
 Concen: 27.17 ng/ul
 RT: 13.37 min Scan# 1748
 Delta R.T. 0.00 min
 Lab File: BM009012.D
 Acq: 24 Feb 2017 11:37

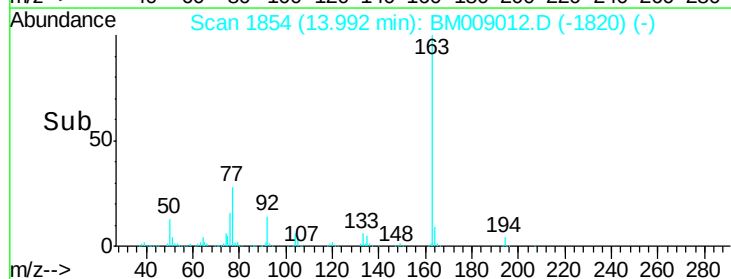
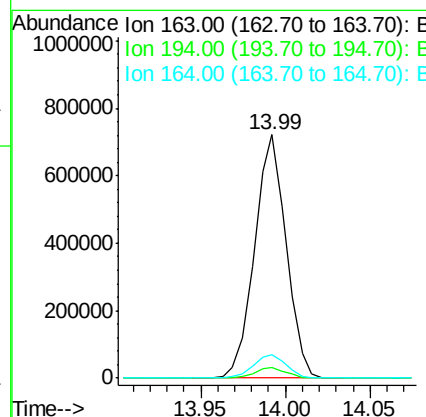
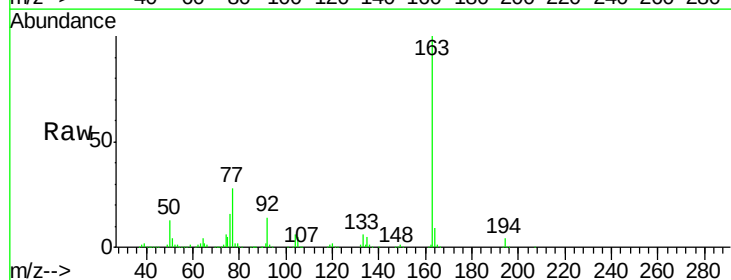
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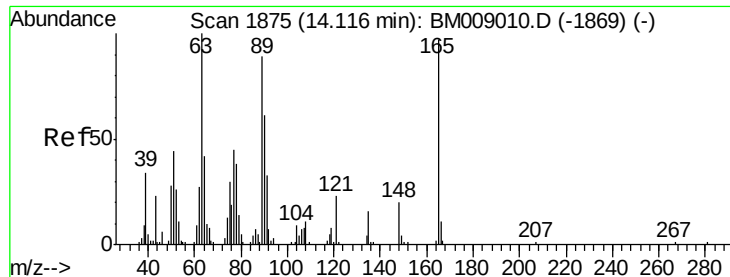
Tgt Ion:154 Resp: 829036
 Ion Ratio Lower Upper
 154 100
 153 43.7 35.7 53.5
 76 16.5 12.4 18.6



#44
 Dimethylphthalate
 Concen: 31.60 ng/ul
 RT: 13.99 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: BM009012.D
 Acq: 24 Feb 2017 11:37

Tgt Ion:163 Resp: 941837
 Ion Ratio Lower Upper
 163 100
 194 4.3 3.0 4.6
 164 9.5 8.6 12.8

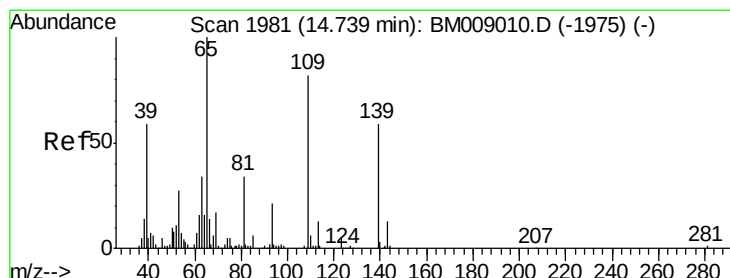
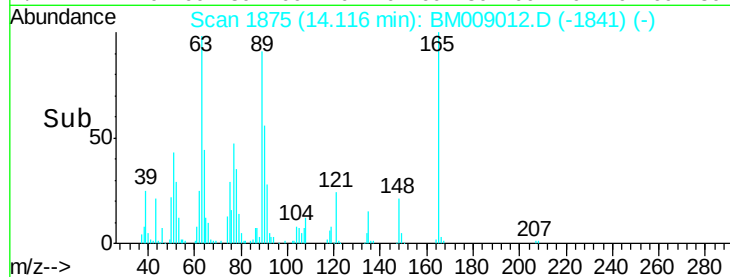
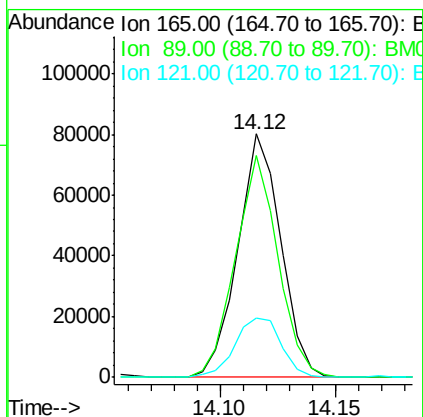
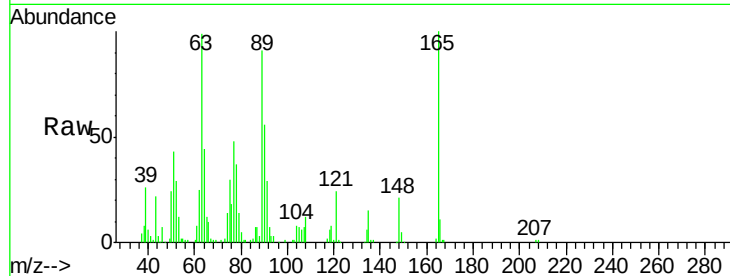




#45
 2,6-Dinitrotoluene
 Concen: 18.37 ng/ul
 RT: 14.12 min Scan# 1875
 Delta R.T. 0.00 min
 Lab File: BM009012.D
 Acq: 24 Feb 2017 11:37

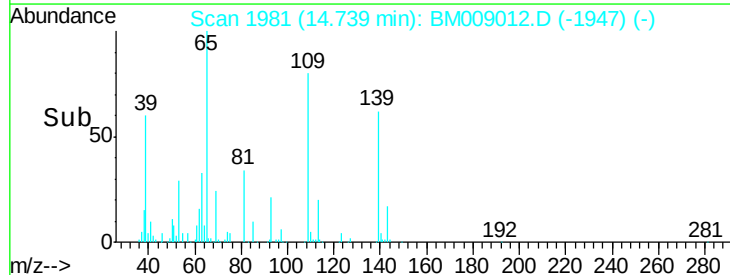
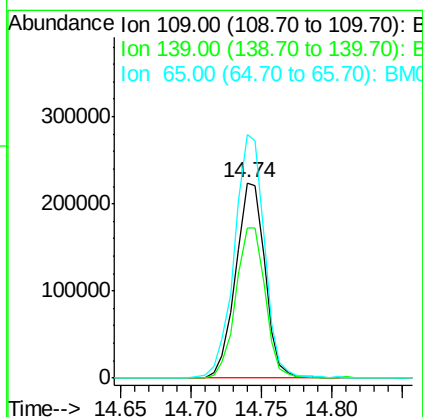
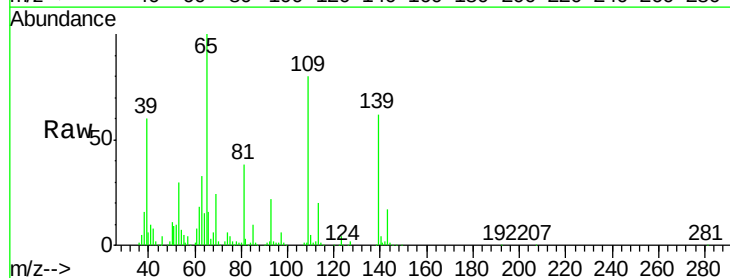
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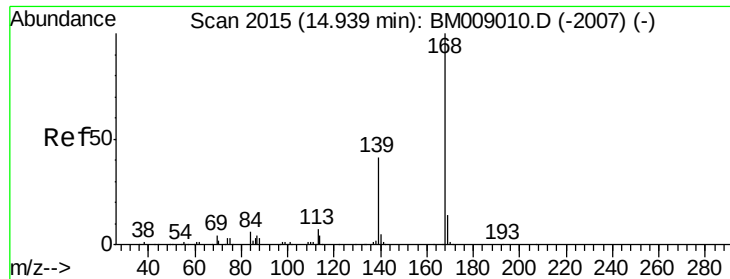
Tgt Ion:165 Resp: 104341
 Ion Ratio Lower Upper
 165 100
 89 91.0 89.4 134.0
 121 24.2 21.6 32.4



#52
 4-Nitrophenol
 Concen: 48.90 ng/ul
 RT: 14.74 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: BM009012.D
 Acq: 24 Feb 2017 11:37

Tgt Ion:109 Resp: 325868
 Ion Ratio Lower Upper
 109 100
 139 77.0 33.9 50.9#
 65 124.8 92.2 138.2





#53

Dibenzofuran

Concen: 11.48 ng/ul

RT: 14.93 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

Instrument :

BNA_M

ClientSampleId :

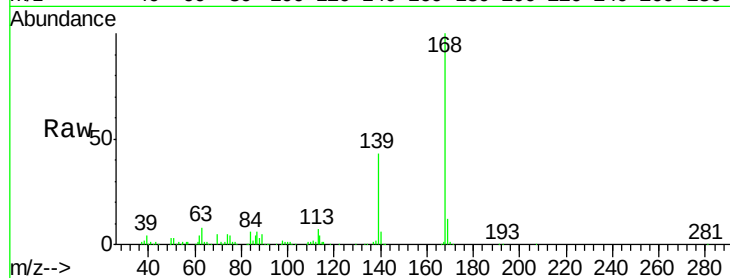
DABP4

Tgt Ion:168 Resp: 430409

Ion Ratio Lower Upper

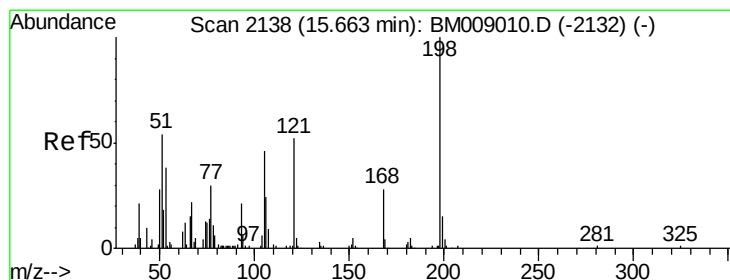
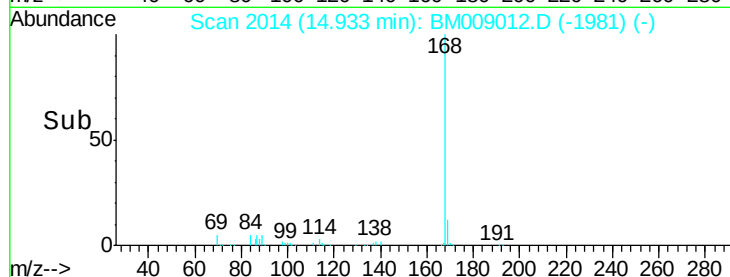
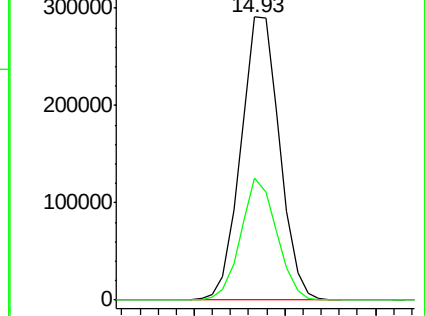
168 100

139 43.3 35.6 53.4



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#63

4,6-Dinitro-2-methylphenol

Concen: 18.41 ng/ul

RT: 15.66 min Scan# 2138

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

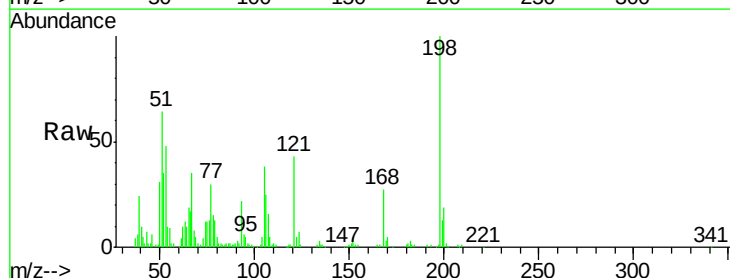
Tgt Ion:198 Resp: 126845

Ion Ratio Lower Upper

198 100

182 3.2 3.0 4.4

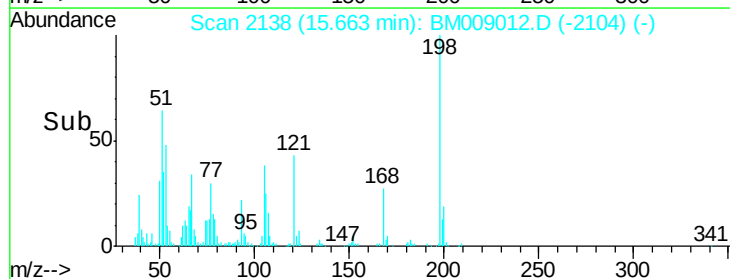
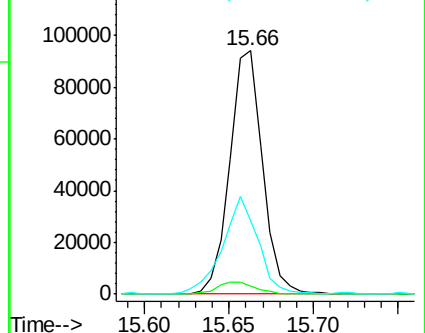
77 30.3 37.6 56.4#

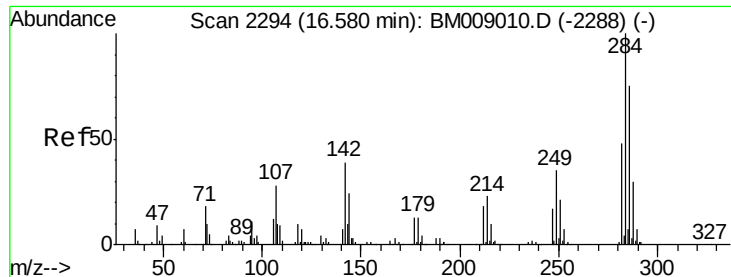


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 77.00 (76.70 to 77.70): BM





#66

Hexachlorobenzene

Concen: 8.09 ng/ul

RT: 16.58 min Scan# 2294

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

Instrument :

BNA_M

ClientSampled :

DABP4

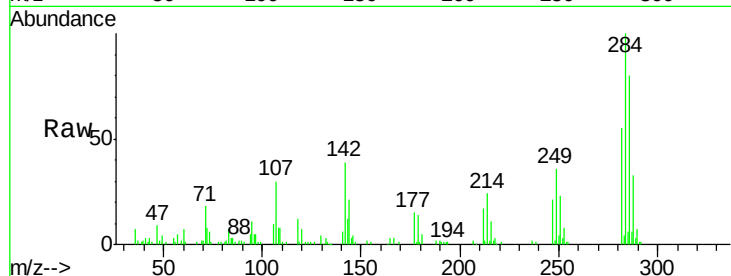
Tgt Ion:284 Resp: 110281

Ion Ratio Lower Upper

284 100

142 39.4 31.6 47.4

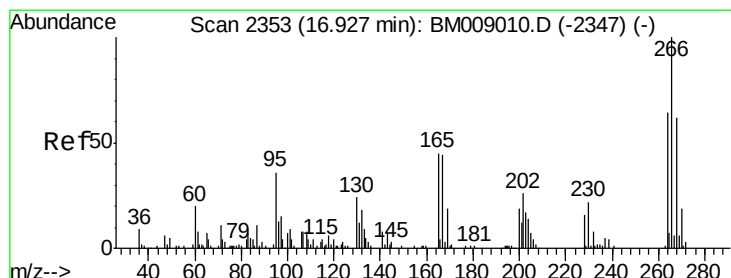
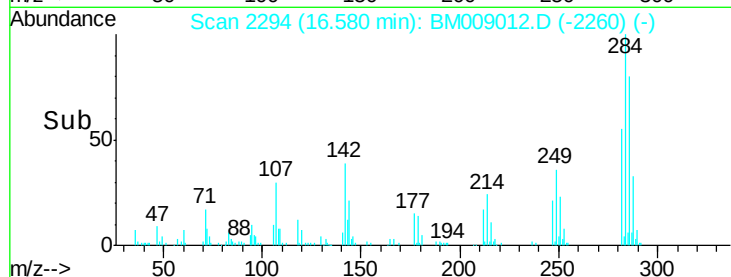
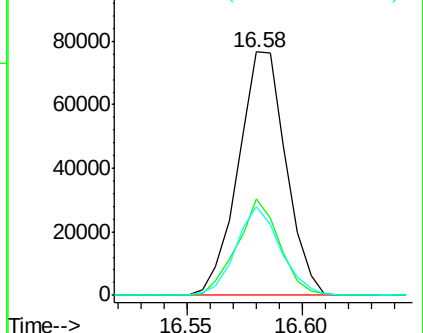
249 36.3 29.0 43.6



Abundance Ion 284.00 (283.70 to 284.70): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#68

Pentachlorophenol

Concen: 16.15 ng/ul

RT: 16.93 min Scan# 2353

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

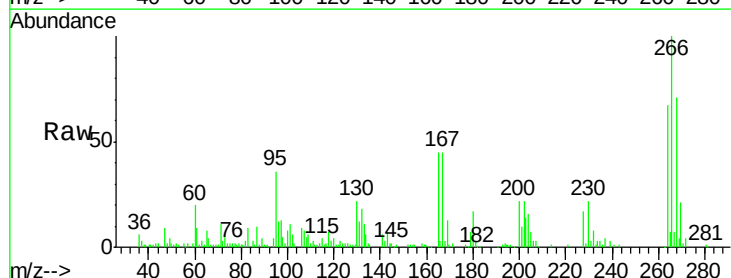
Tgt Ion:266 Resp: 136298

Ion Ratio Lower Upper

266 100

264 66.5 54.8 82.2

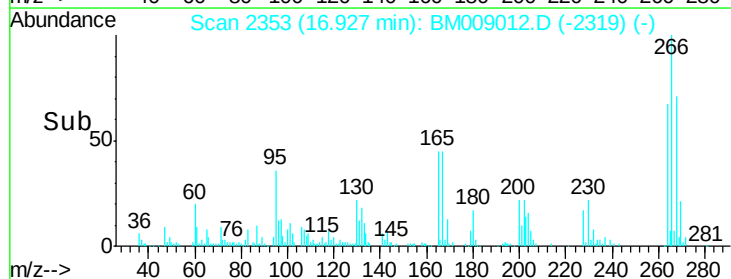
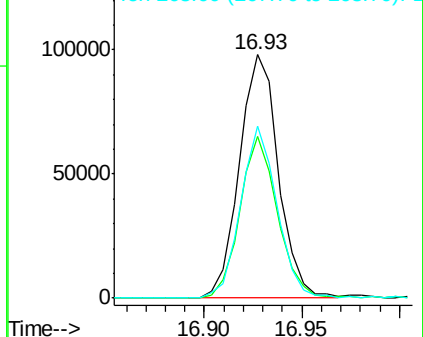
268 70.5 62.1 93.1

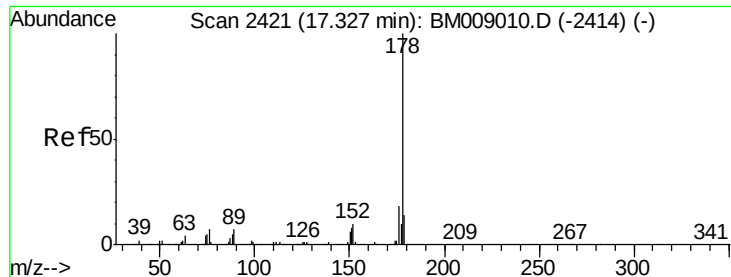


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#69

Phenanthrene

Concen: 24.64 ng/ul

RT: 17.33 min Scan# 2421

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

Instrument :

BNA_M

ClientSampled :

DABP4

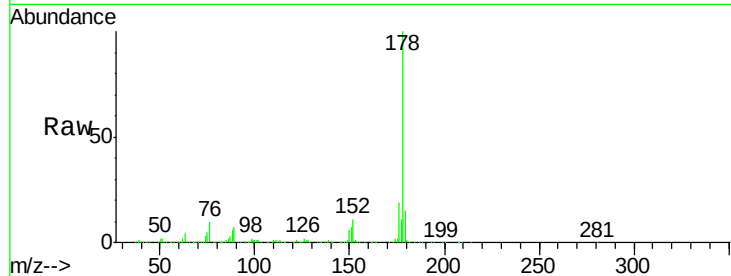
Tgt Ion:178 Resp: 1484328

Ion Ratio Lower Upper

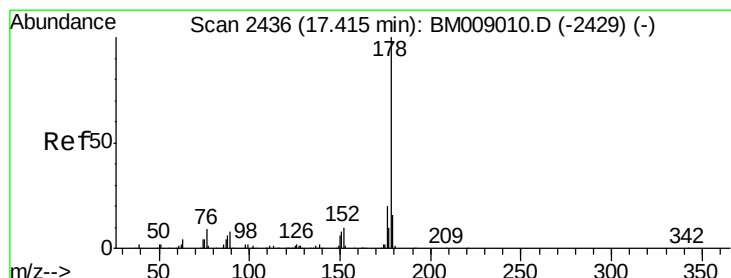
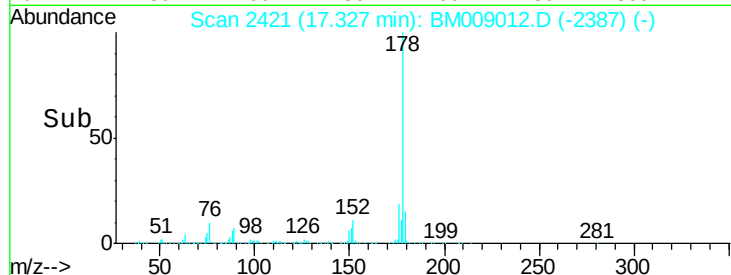
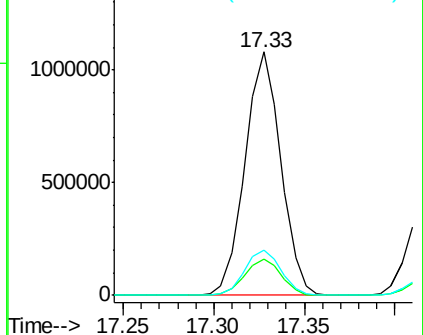
178 100

179 15.0 12.6 19.0

176 18.8 15.8 23.6



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: 10.24 ng/ul

RT: 17.42 min Scan# 2436

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

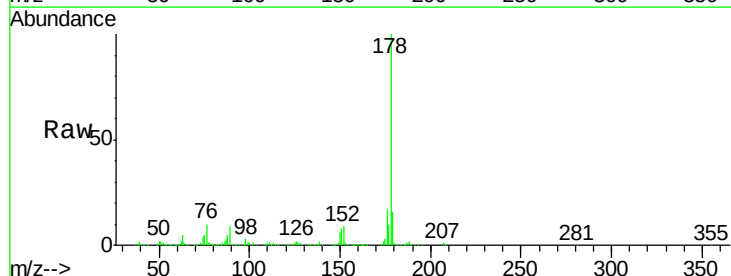
Tgt Ion:178 Resp: 629082

Ion Ratio Lower Upper

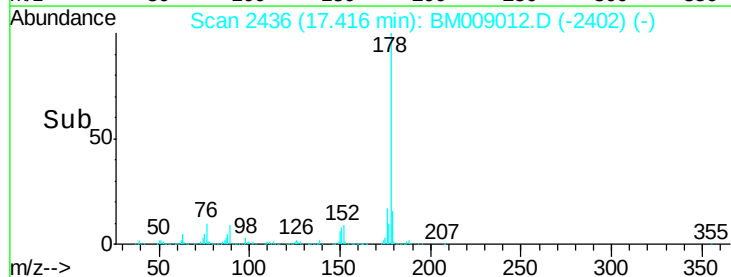
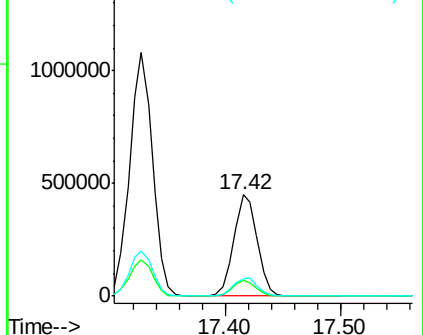
178 100

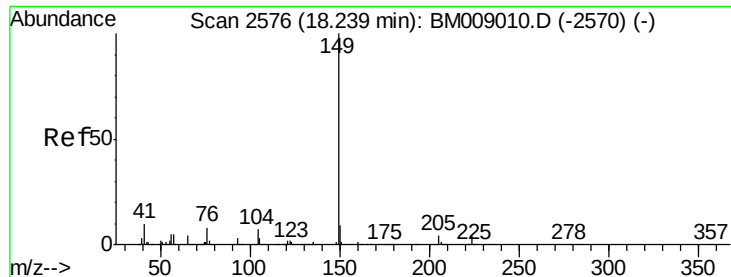
179 15.8 13.1 19.7

176 17.0 15.6 23.4



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





#73

Di-n-butylphthalate

Concen: 15.84 ng/ul

RT: 18.24 min Scan# 2576

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

Instrument :

BNA_M

ClientSampleId :

DABP4

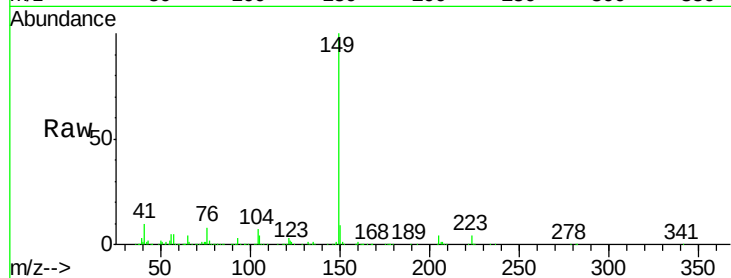
Tgt Ion:149 Resp: 976039

Ion Ratio Lower Upper

149 100

150 9.4 7.1 10.7

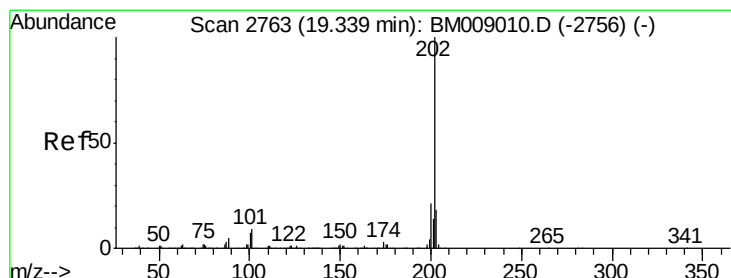
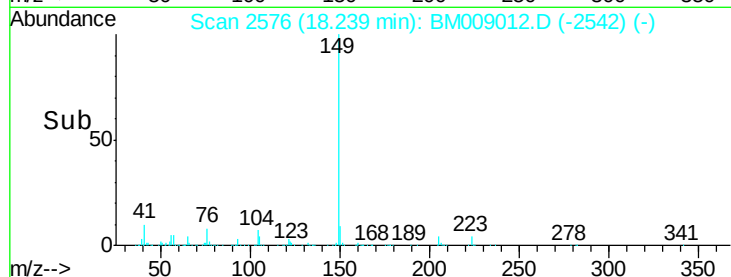
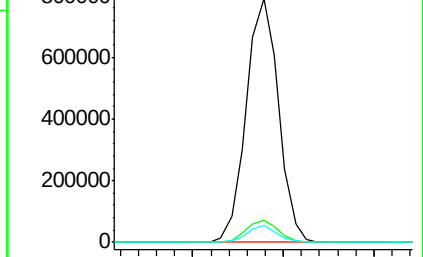
104 7.0 6.9 10.3



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: 20.41 ng/ul

RT: 19.34 min Scan# 2763

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

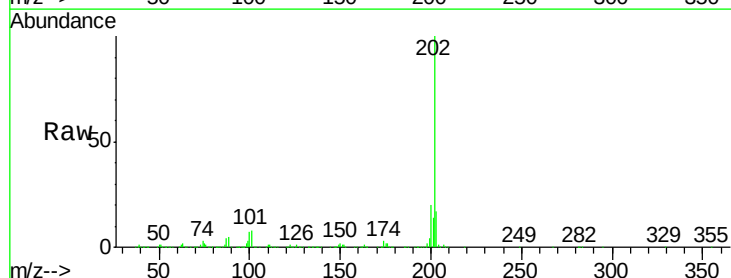
Tgt Ion:202 Resp: 1486623

Ion Ratio Lower Upper

202 100

101 8.0 5.7 8.5

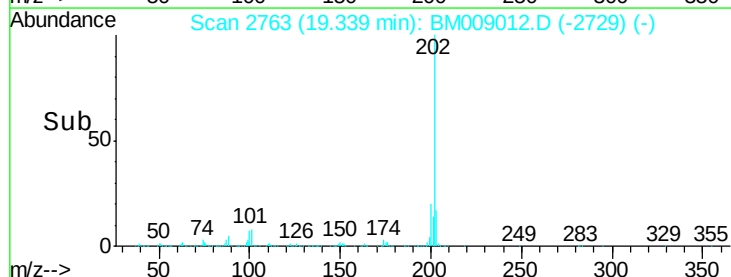
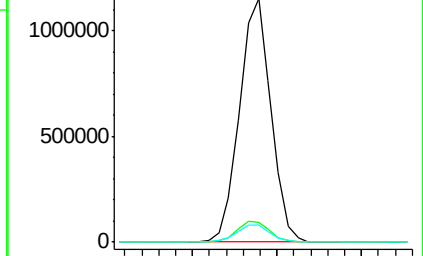
100 7.1 4.6 7.0#

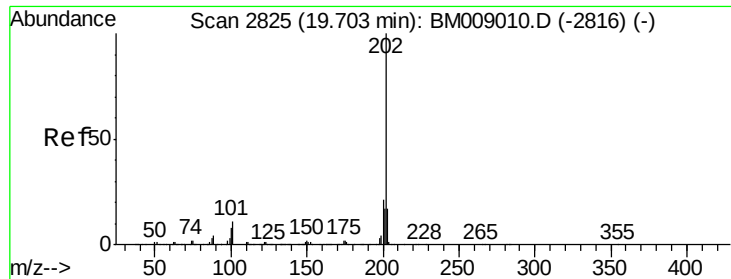


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pyrene

Concen: 21.58 ng/ul

RT: 19.70 min Scan# 2825

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

Instrument :

BNA_M

ClientSampleId :

DABP4

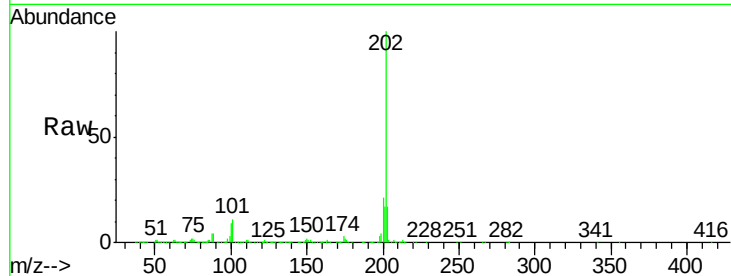
Tgt Ion:202 Resp: 1617064

Ion Ratio Lower Upper

202 100

101 10.6 6.2 9.4#

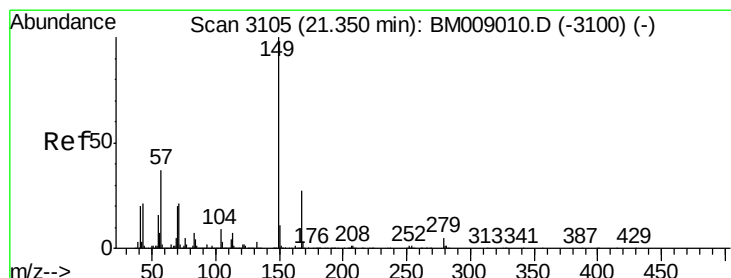
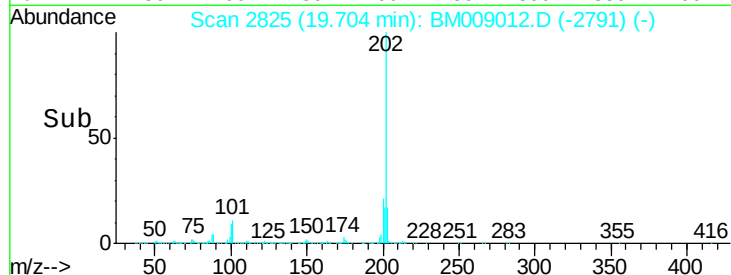
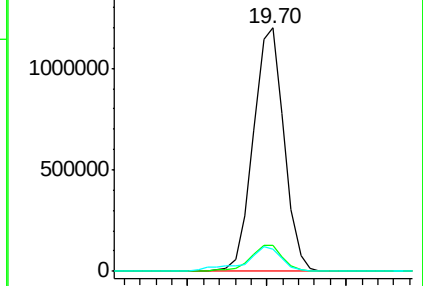
100 9.1 6.4 9.6



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



#81

Bis(2-ethylhexyl)phthalate

Concen: 20.98 ng/ul

RT: 21.35 min Scan# 3105

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

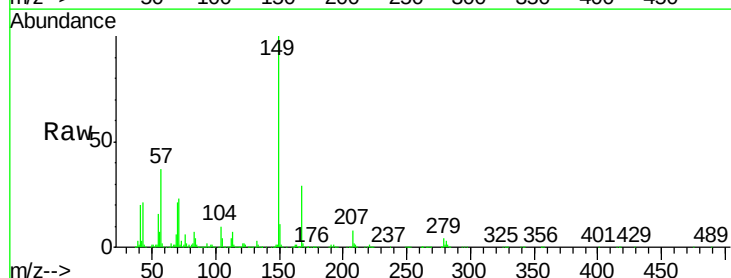
Tgt Ion:149 Resp: 819897

Ion Ratio Lower Upper

149 100

167 28.8 20.2 30.2

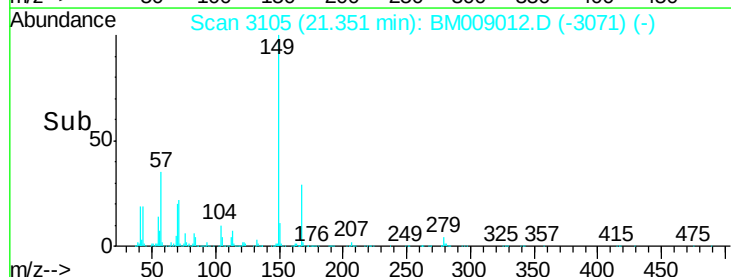
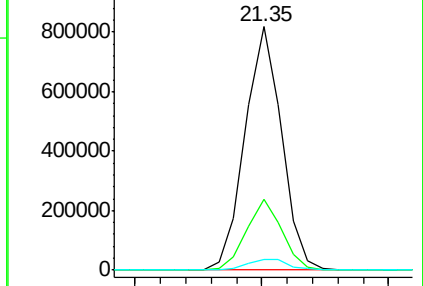
279 4.4 4.0 6.0

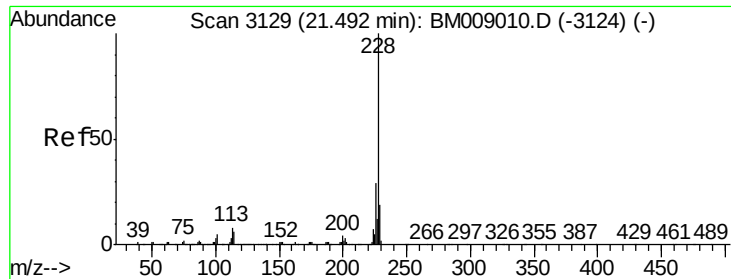


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#82

Chrysene

Concen: 17.81 ng/ul

RT: 21.49 min Scan# 3129

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

Instrument :

BNA_M

ClientSampleId :

DABP4

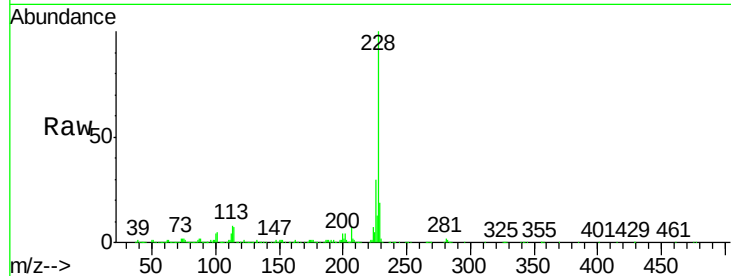
Tgt Ion:228 Resp: 1295820

Ion Ratio Lower Upper

228 100

226 29.6 23.9 35.9

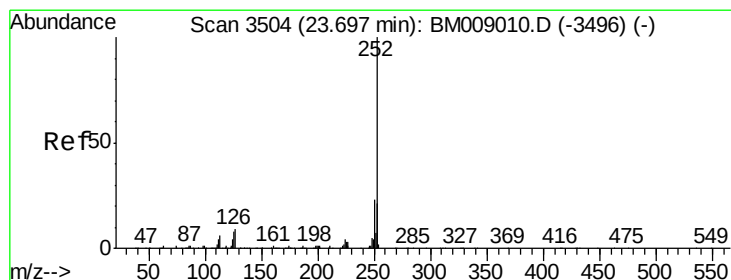
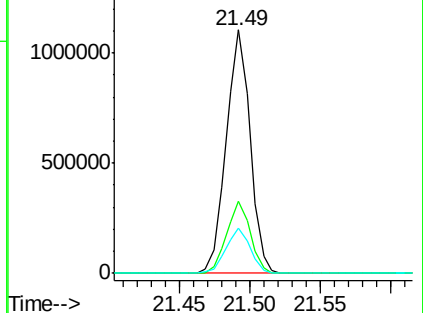
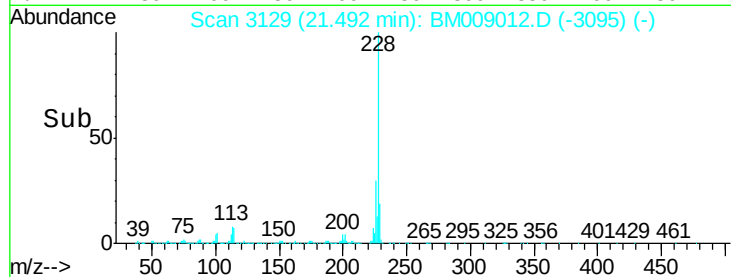
229 18.6 15.4 23.2



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



#88

Benzo(a)pyrene

Concen: 16.08 ng/ul

RT: 23.70 min Scan# 3504

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

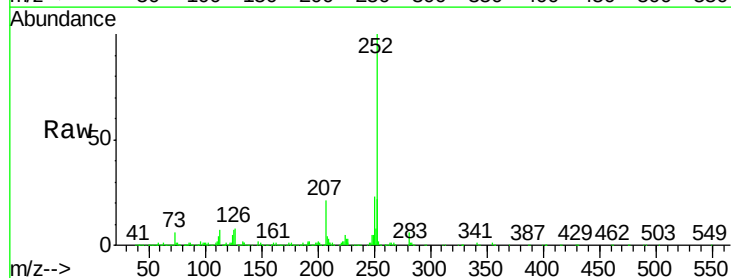
Tgt Ion:252 Resp: 1119779

Ion Ratio Lower Upper

252 100

253 21.6 17.4 26.0

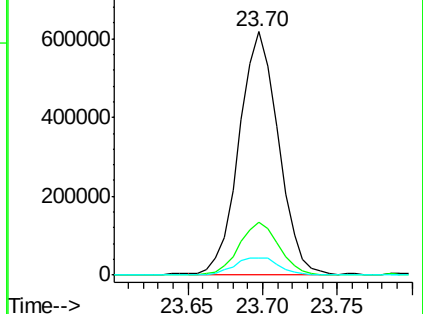
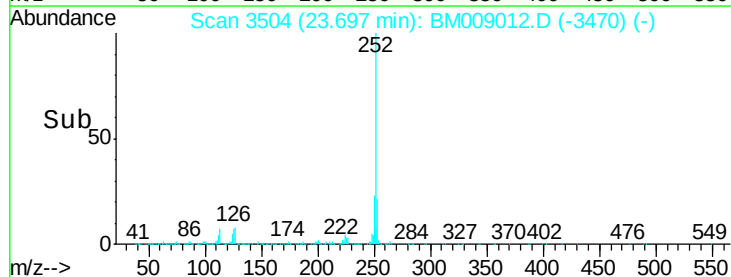
125 6.8 3.7 5.5#

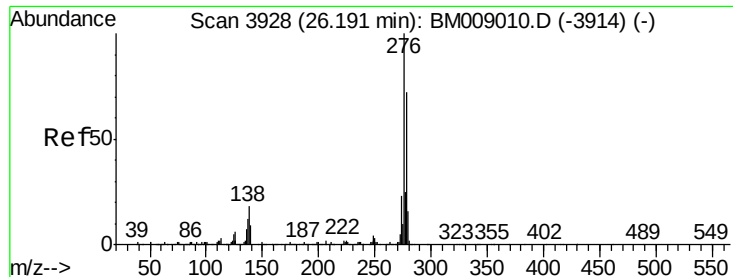


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Indeno(1,2,3-cd)pyrene

Concen: 17.73 ng/ul

RT: 26.19 min Scan# 3928

Delta R.T. 0.00 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

Instrument :

BNA_M

ClientSampleId :

DABP4

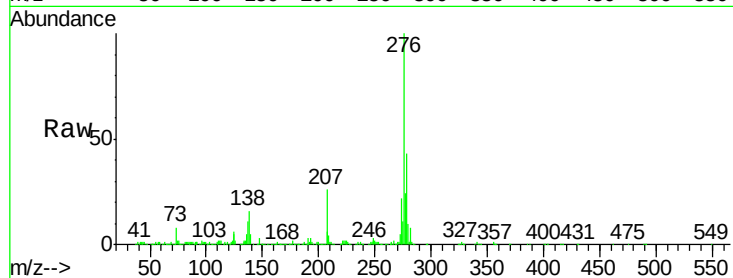
Tgt Ion:276 Resp: 1402353

Ion Ratio Lower Upper

276 100

138 15.7 8.2 12.2#

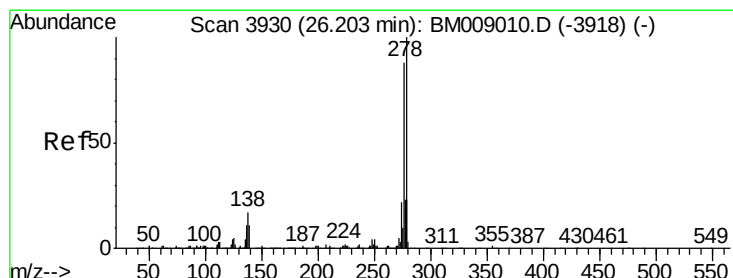
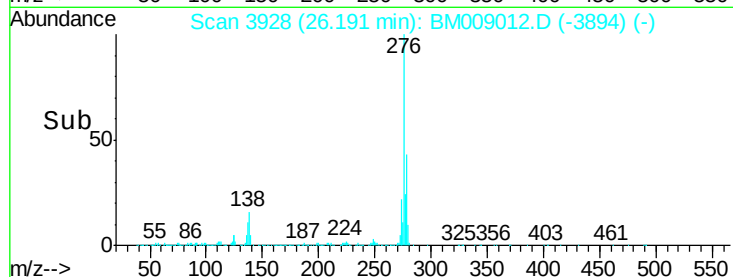
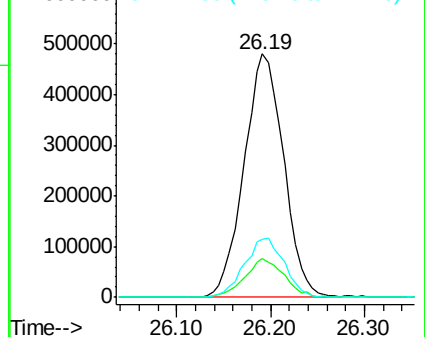
277 24.0 21.5 32.3



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



#90

Dibenzo(a,h)anthracene

Concen: 11.15 ng/ul

RT: 26.21 min Scan# 3931

Delta R.T. 0.01 min

Lab File: BM009012.D

Acq: 24 Feb 2017 11:37

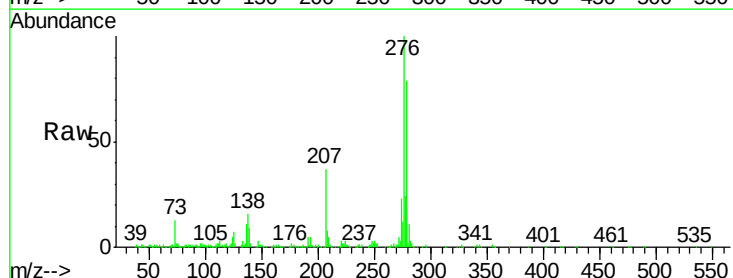
Tgt Ion:278 Resp: 751044

Ion Ratio Lower Upper

278 100

139 14.0 5.8 8.8#

279 22.6 17.9 26.9



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

