

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051116\
 Data File : BF086924.D
 Acq On : 12 May 2016 10:16
 Operator : UM/SJ
 Sample : H2895-08DL 2X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

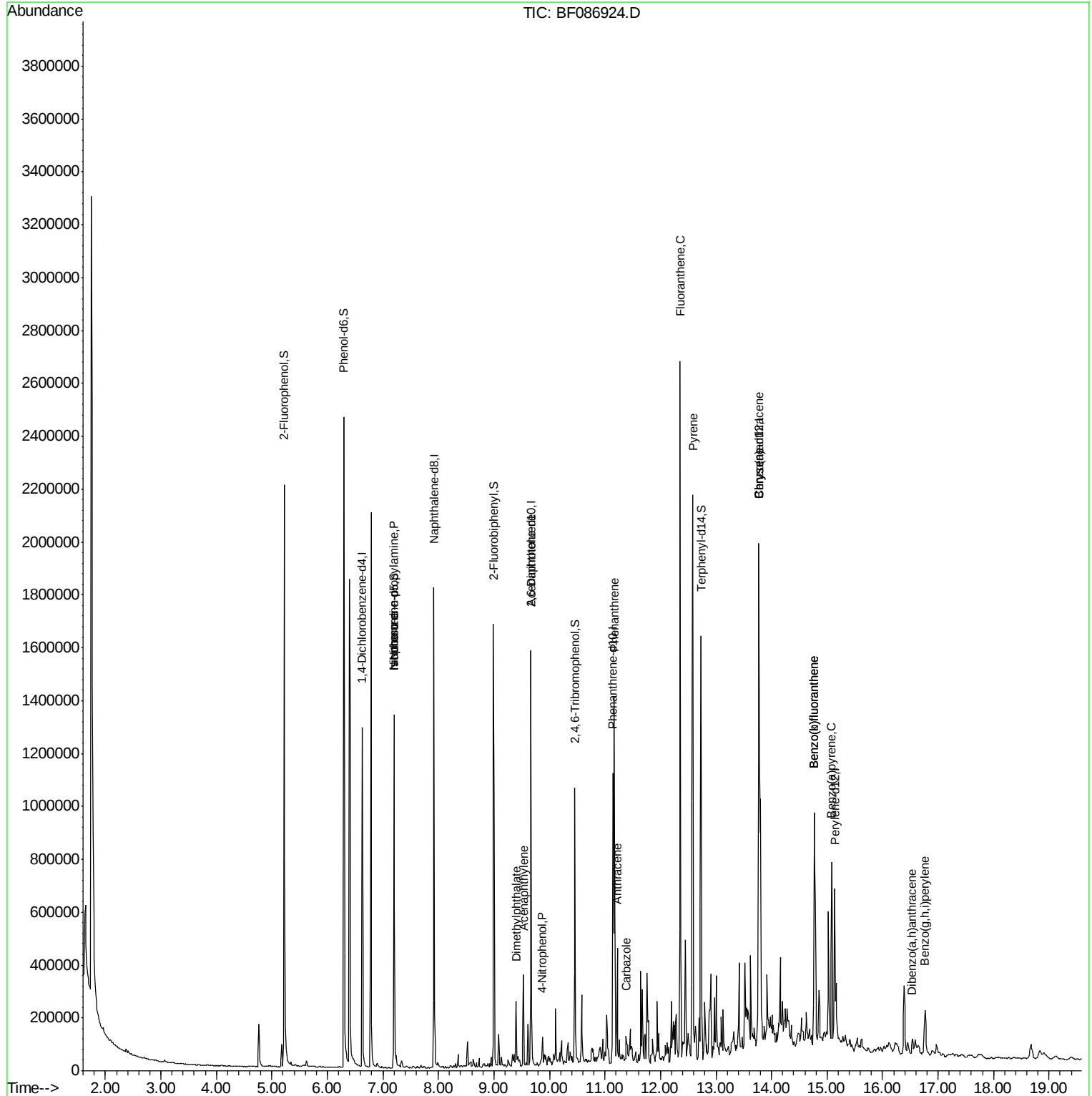
Quant Time: May 12 15:57:40 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 12 15:26:18 2016
 Response via : Initial Calibration

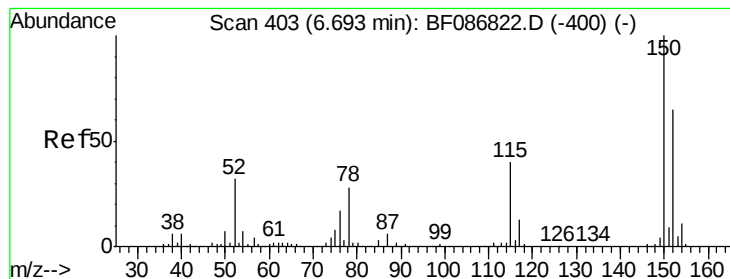
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	179938	20.00	ng	-0.01
21) Naphthalene-d8	7.92	136	702435	20.00	ng	-0.01
38) Acenaphthene-d10	9.67	164	280992	20.00	ng	-0.01
63) Phenanthrene-d10	11.14	188	417583	20.00	ng	-0.01
75) Chrysene-d12	13.77	240	396729	20.00	ng	-0.01
86) Perylene-d12	15.14	264	317688	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	580292	54.62	ng	-0.01
7) Phenol-d6	6.30	99	732655	51.59	ng	-0.02
23) Nitrobenzene-d5	7.20	82	464686	33.22	ng	-0.02
41) 2,4,6-Tribromophenol	10.46	330	114298	38.42	ng	-0.01
44) 2-Fluorobiphenyl	8.99	172	634080	37.93	ng	-0.01
78) Terphenyl-d14	12.73	244	476244	25.47	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.20	70	63777	6.43	ng	# 67
25) Isophorone	7.20	82	447406	17.24	ng	# 68
48) Acenaphthylene	9.53	152	141858	5.51	ng	99
49) Dimethylphthalate	9.40	163	107079	4.99	ng	# 97
50) 2,6-Dinitrotoluene	9.67	165	37539	8.32	ng	# 21
55) 4-Nitrophenol	9.87	139	9309	7.33	ng	# 19
70) Phenanthrene	11.16	178	549224	24.65	ng	100
71) Anthracene	11.22	178	174043	7.64	ng	98
72) Carbazole	11.38	167	45067	2.30	ng	98
74) Fluoranthene	12.35	202	986323	43.03	ng	97
77) Pyrene	12.58	202	904600	29.78	ng	100
80) Benzo(a)anthracene	13.77	228	572031	25.68	ng	# 87
82) Chrysene	13.77	228	572031	25.25	ng	# 89
87) Benzo(b)fluoranthene	14.77	252	628647	30.45	ng	99
88) Benzo(k)fluoranthene	14.77	252	628224	37.16	ng	98
89) Benzo(a)pyrene	15.09	252	288842	16.22	ng	96
90) Dibenzo(a,h)anthracene	16.54	278	30980	2.06	ng	97
91) Benzo(g,h,i)perylene	16.77	276	124482	8.16	ng	# 94

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

```
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Misc      :  
ALS Vial  : 46      Sample Multiplier: 1
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
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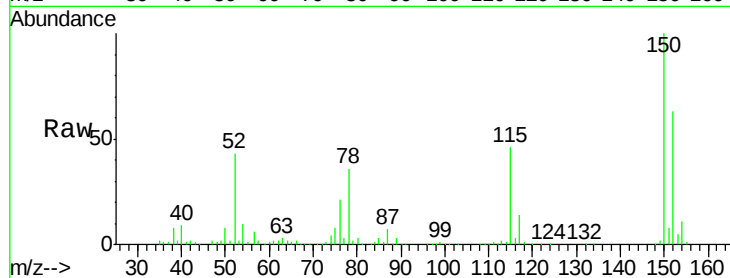


#1

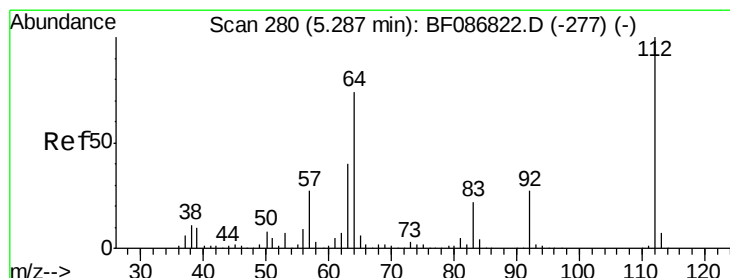
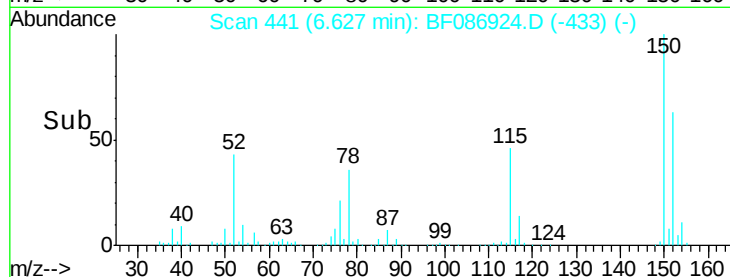
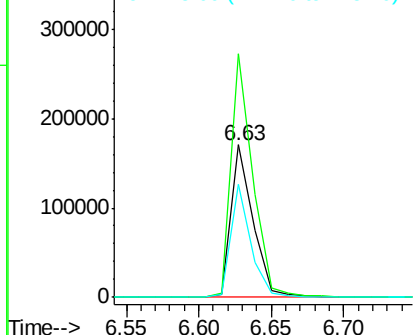
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.63 min Scan# 441
Delta R.T. -0.01 min
Lab File: BF086924.D
Acq: 12 May 2016 10:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 179938
Ion Ratio Lower Upper
152 100
150 159.8 125.8 188.6
115 73.9 51.5 77.3



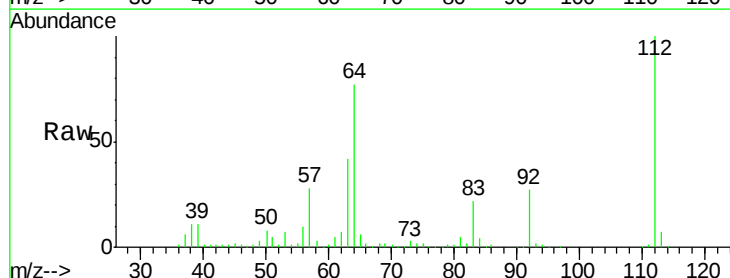
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



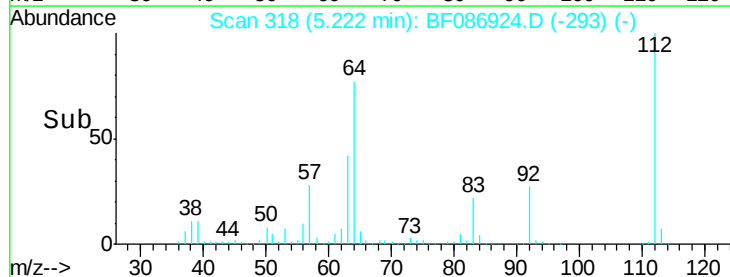
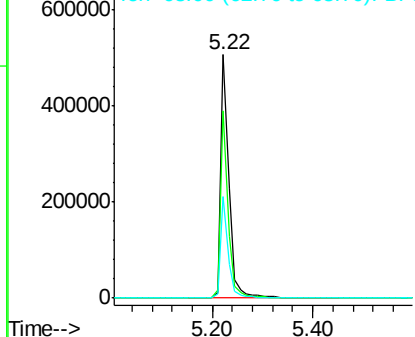
#5

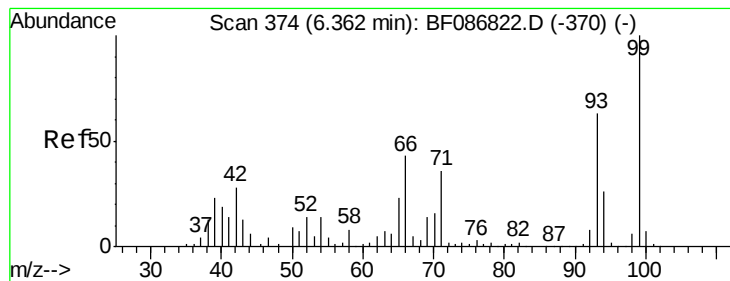
2-Fluorophenol
Concen: 54.62 ng
RT: 5.22 min Scan# 318
Delta R.T. -0.01 min
Lab File: BF086924.D
Acq: 12 May 2016 10:16

Tgt Ion:112 Resp: 580292
Ion Ratio Lower Upper
112 100
64 76.8 52.1 78.1
63 41.6 25.7 38.5#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 51.59 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.02 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Instrument :

BNA_F

ClientSampled :

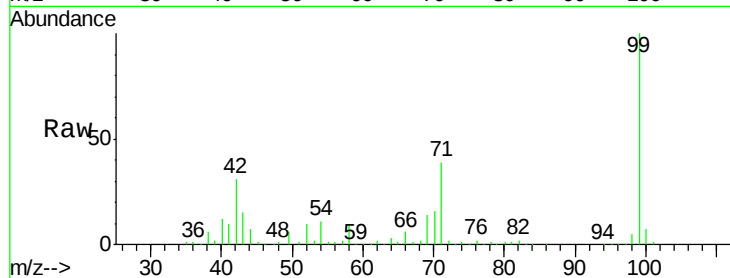
Tot Ion: 99 Resp: 732655

Ion Ratio Lower Upper

99 100

42 31.0 13.6 20.4#

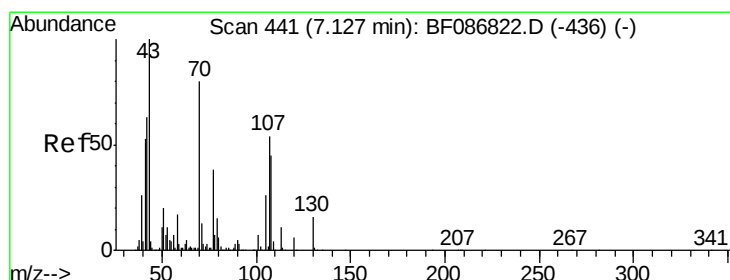
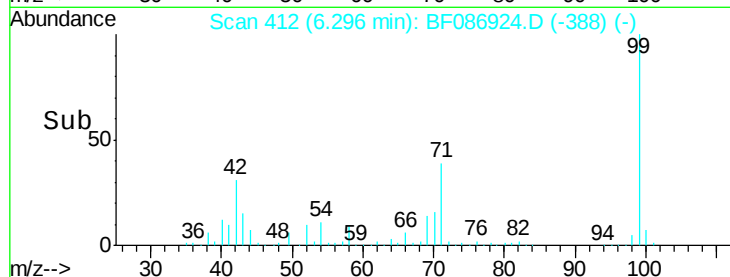
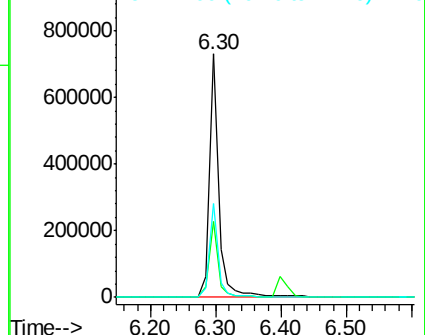
71 38.6 24.6 36.8#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 6.43 ng

RT: 7.20 min Scan# 491

Delta R.T. 0.11 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Tgt Ion: 70 Resp: 63777

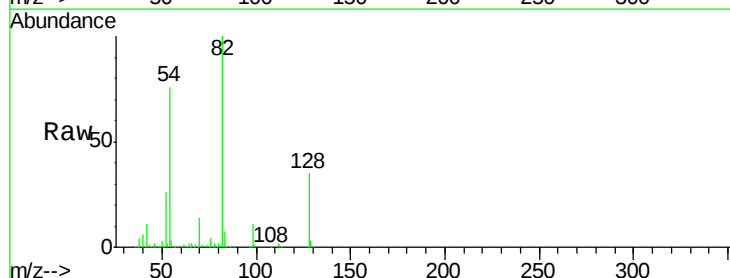
Ion Ratio Lower Upper

70 100

42 75.2 43.1 64.7#

101 0.0 8.1 12.1#

130 1.7 18.6 28.0#

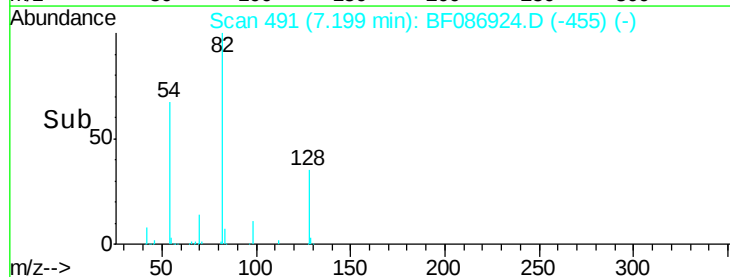
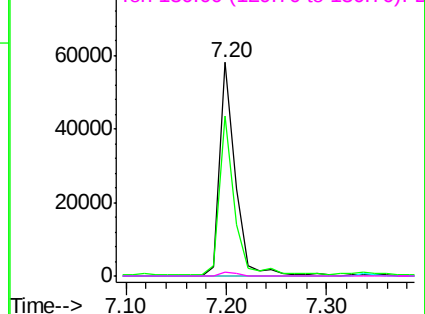


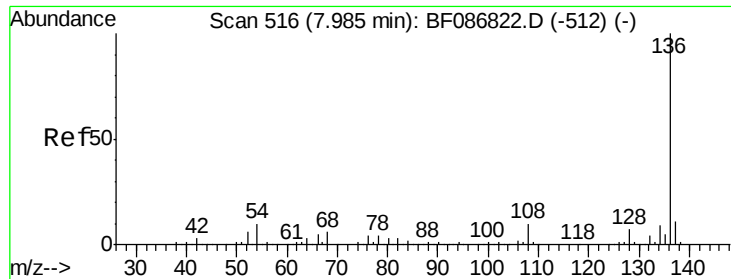
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

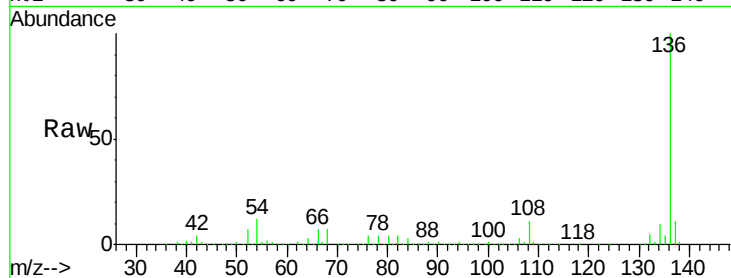




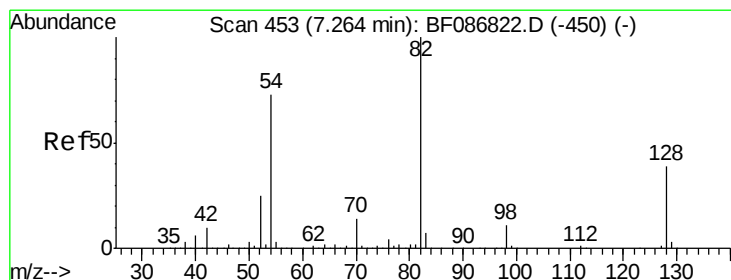
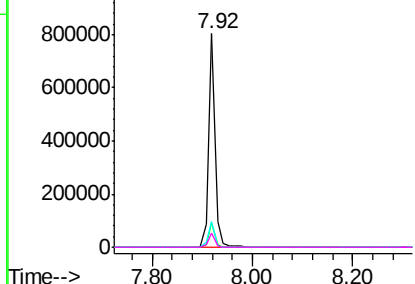
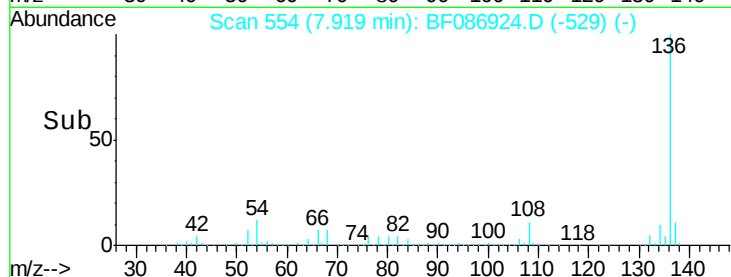
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.92 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF086924.D
Acq: 12 May 2016 10:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	702435
Ion Ratio	Lower	Upper
136	100	
137	11.3	8.8 13.2
54	12.3	5.0 7.4#
68	6.5	4.4 6.6

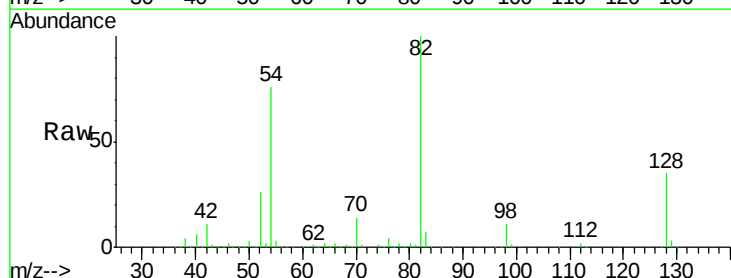


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

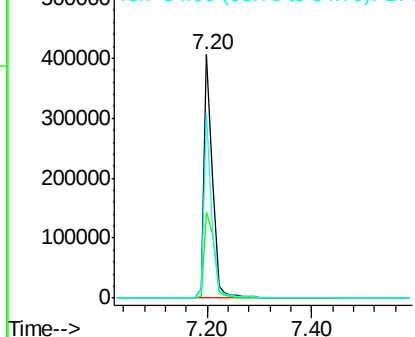
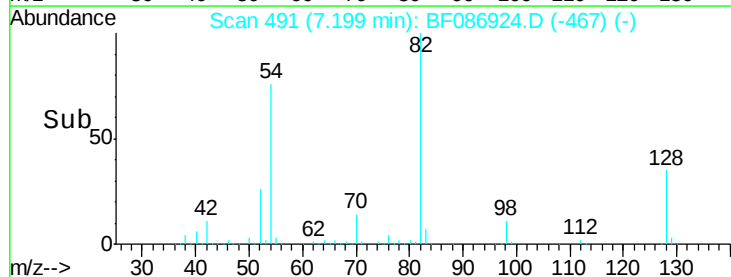


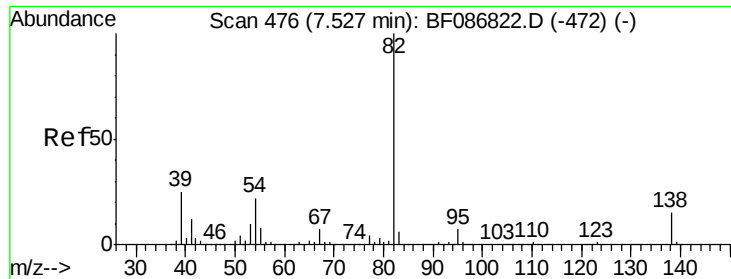
#23
Nitrobenzene-d5
Concen: 33.22 ng
RT: 7.20 min Scan# 491
Delta R.T. -0.02 min
Lab File: BF086924.D
Acq: 12 May 2016 10:16

Tgt Ion: 82	Resp:	464686
Ion Ratio	Lower	Upper
82	100	
128	35.5	40.6 61.0#
54	75.7	38.1 57.1#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 17.24 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.27 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Instrument :

BNA_F

ClientSampleId :

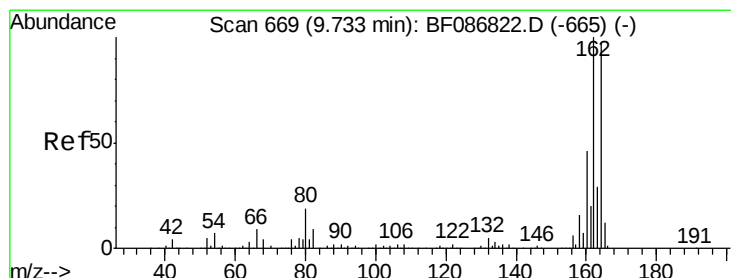
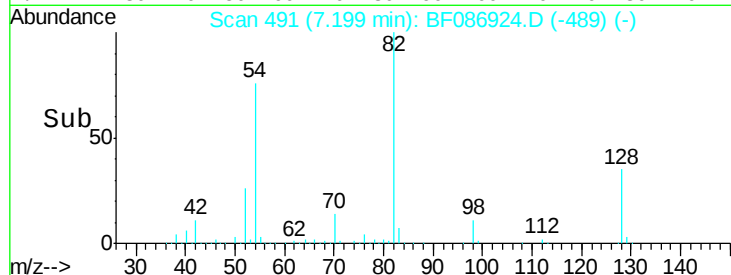
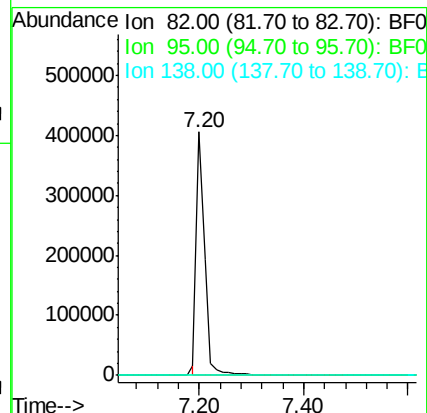
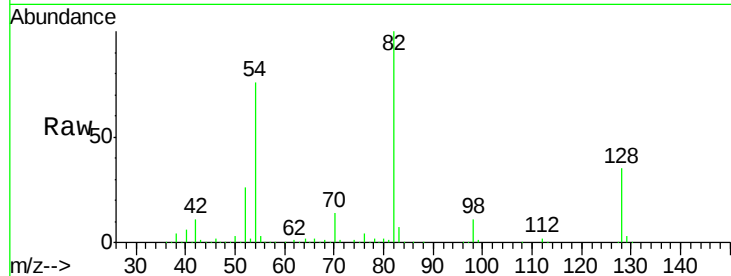
Tot Ion: 82 Resp: 447406

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

138 0.0 12.4 18.6#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.67 min Scan# 707

Delta R.T. -0.01 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

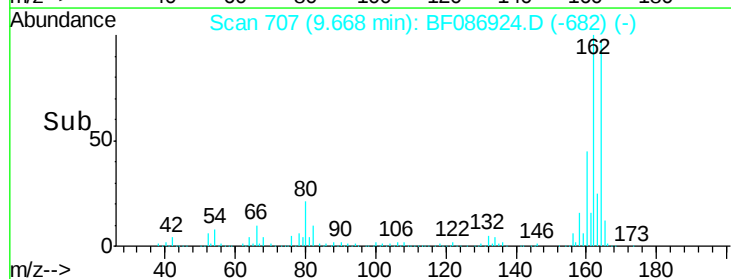
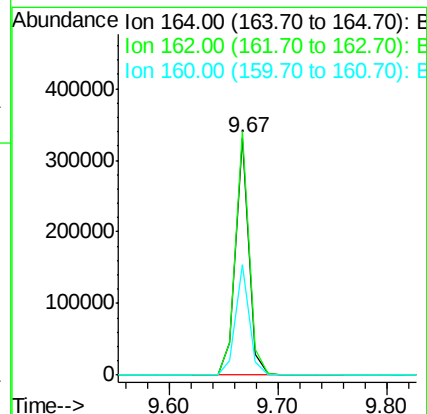
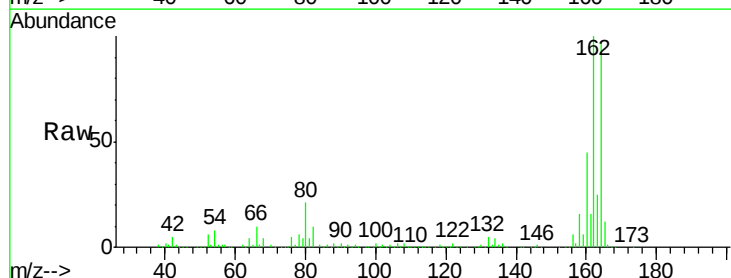
Tgt Ion: 164 Resp: 280992

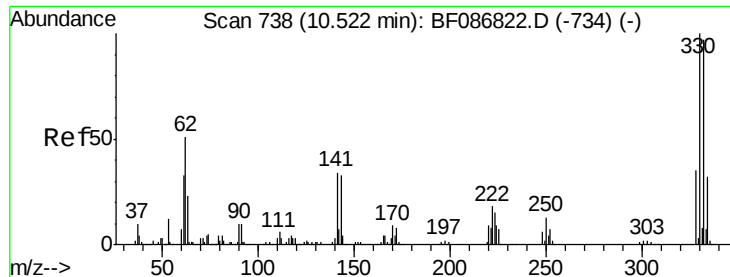
Ion Ratio Lower Upper

164 100

162 102.6 82.8 124.2

160 46.6 36.9 55.3

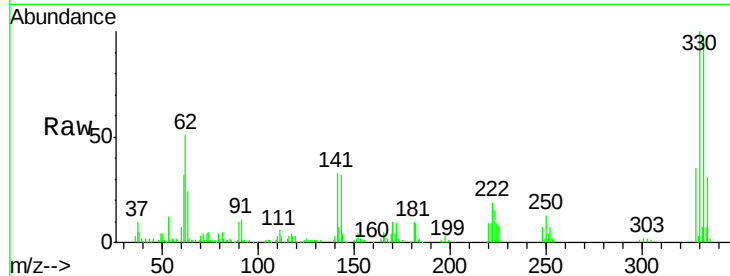




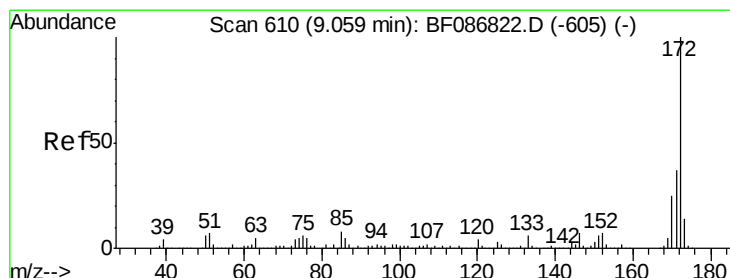
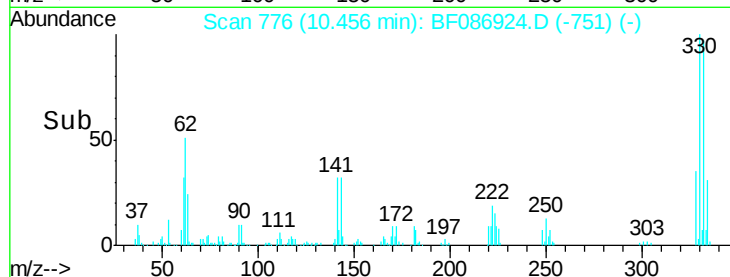
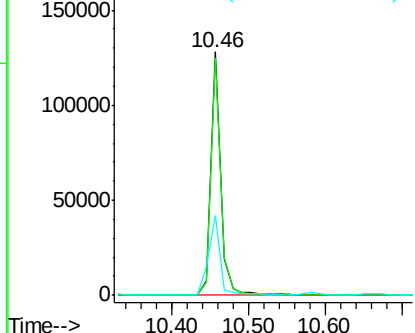
#41
 2,4,6-Tribromophenol
 Concen: 38.42 ng
 RT: 10.46 min Scan# 776
 Delta R.T. -0.01 min
 Lab File: BF086924.D
 Acq: 12 May 2016 10:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	79.0	118.4
141	39.4	31.2	46.8

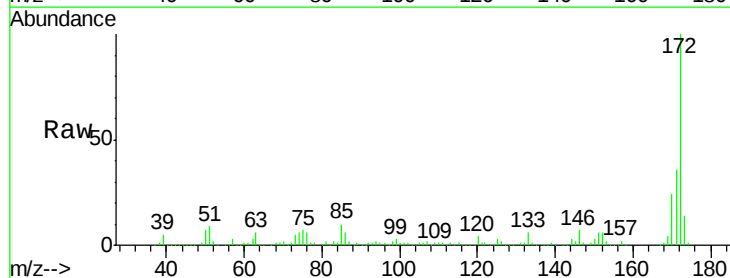


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

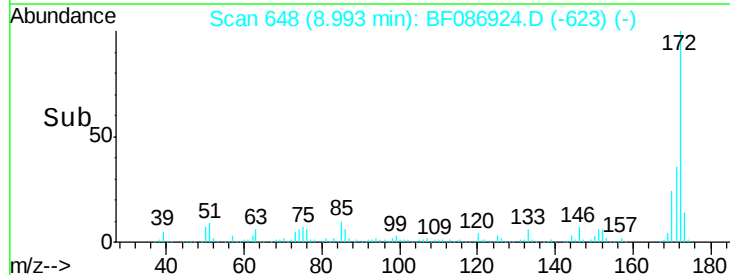
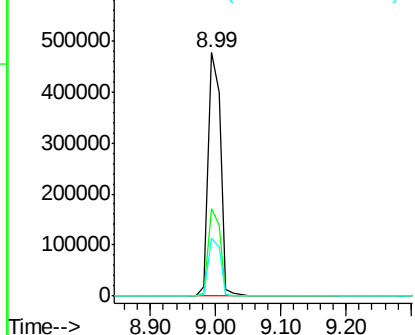


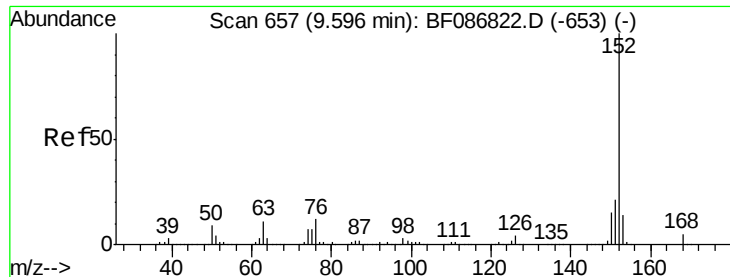
#44
 2-Fluorobiphenyl
 Concen: 37.93 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.01 min
 Lab File: BF086924.D
 Acq: 12 May 2016 10:16

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.6
170	23.9	19.8	29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 5.51 ng

RT: 9.53 min Scan# 695

Delta R.T. -0.01 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Instrument :

BNA_F

ClientSampleId :

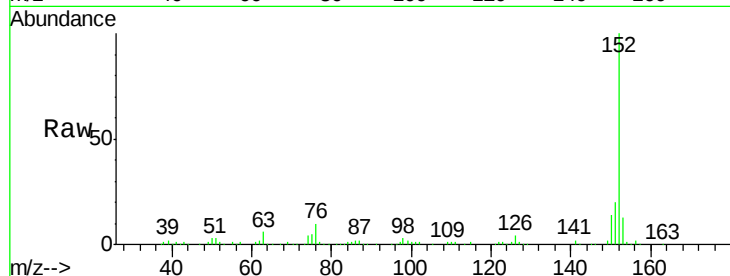
Tot Ion:152 Resp: 141858

Ion Ratio Lower Upper

152 100

151 20.2 16.8 25.2

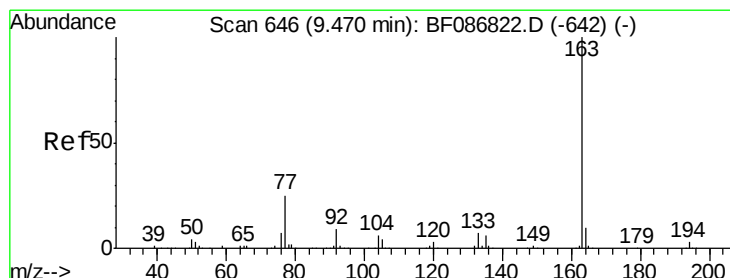
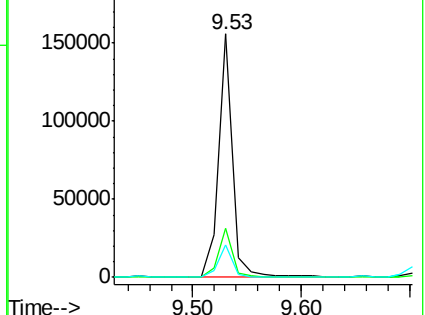
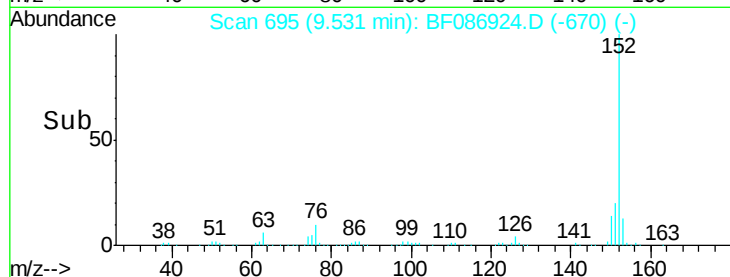
153 13.5 10.9 16.3



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

Dimethylphthalate

Concen: 4.99 ng

RT: 9.40 min Scan# 684

Delta R.T. -0.01 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

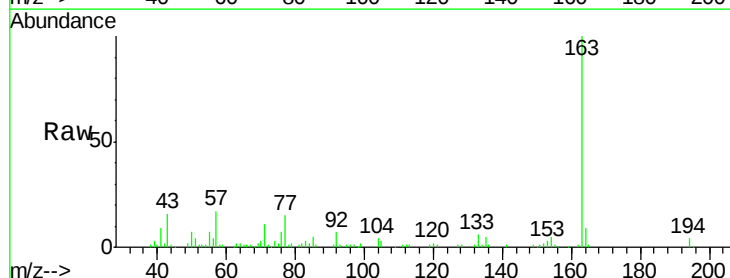
Tgt Ion:163 Resp: 107079

Ion Ratio Lower Upper

163 100

194 4.1 2.6 4.0#

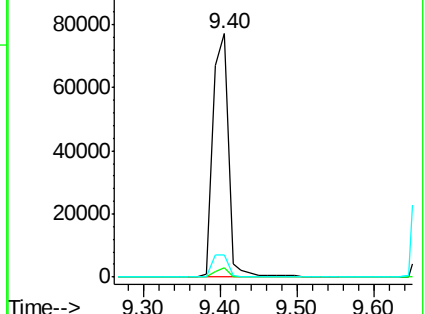
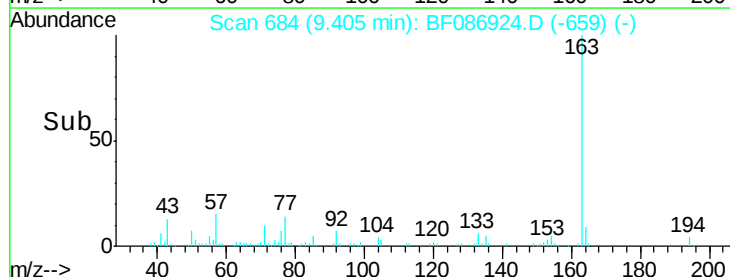
164 9.2 8.2 12.4

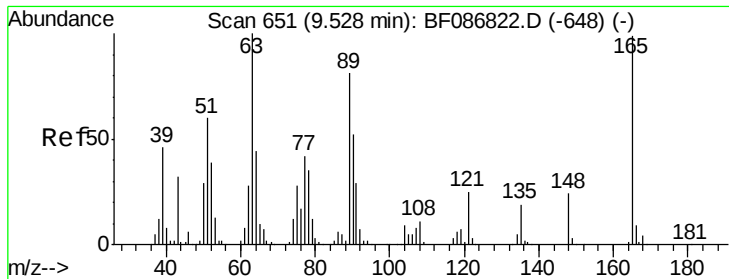


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#50

2,6-Dinitrotoluene

Concen: 8.32 ng

RT: 9.67 min Scan# 707

Delta R.T. 0.18 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Instrument :

BNA_F

ClientSampleId :

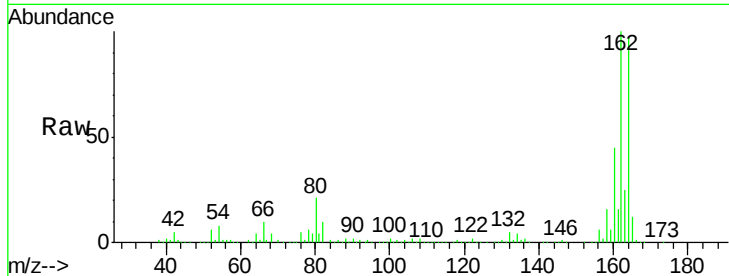
Tot Ion:165 Resp: 37539

Ion Ratio Lower Upper

165 100

63 1.9 51.8 77.8#

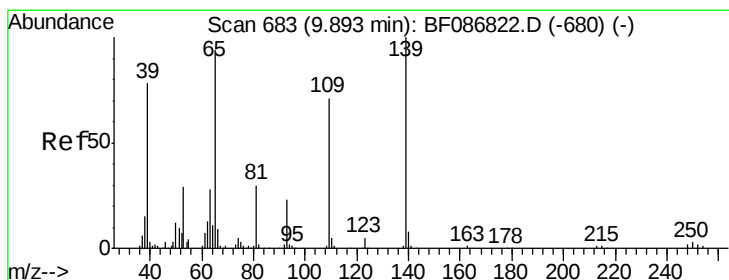
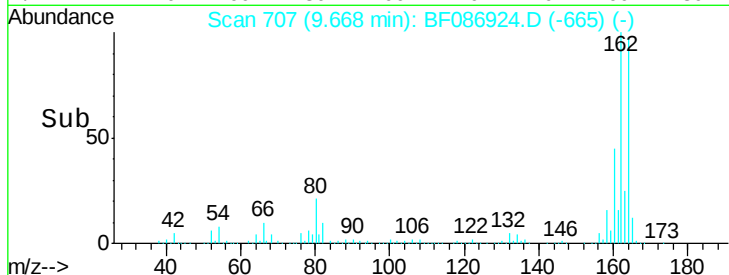
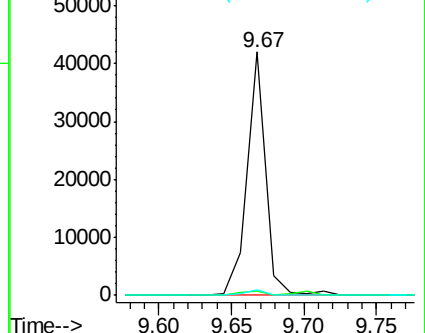
89 2.1 50.7 76.1#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#55

4-Nitrophenol

Concen: 7.33 ng

RT: 9.87 min Scan# 725

Delta R.T. 0.03 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

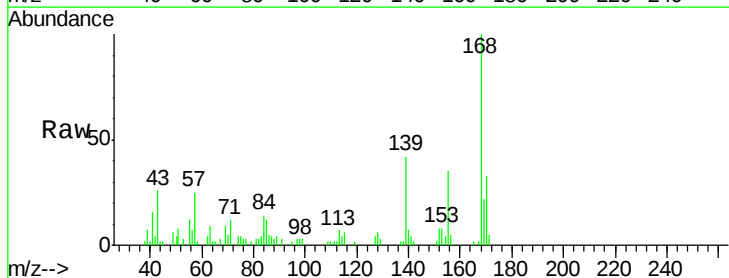
Tgt Ion:139 Resp: 9309

Ion Ratio Lower Upper

139 100

109 4.4 36.9 76.9#

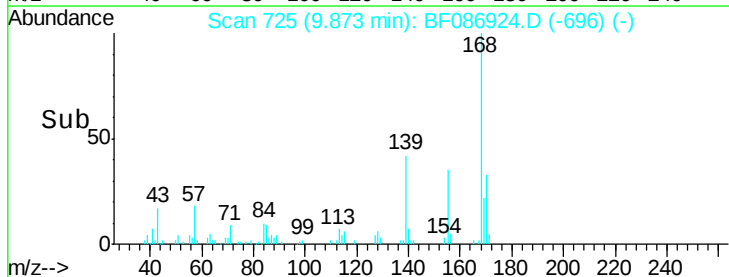
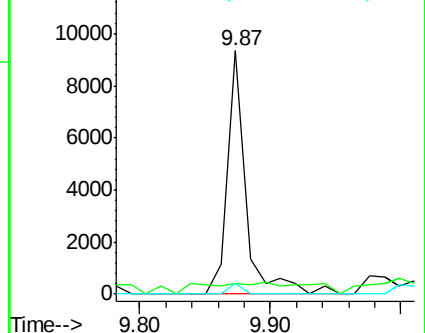
65 4.2 64.0 104.0#

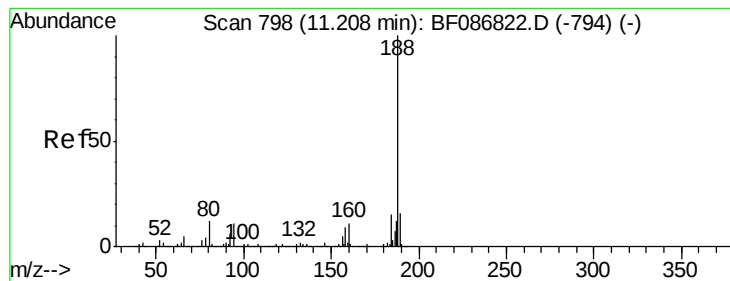


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.14 min Scan# 836

Delta R.T. -0.01 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Instrument :

BNA_F

ClientSampleId :

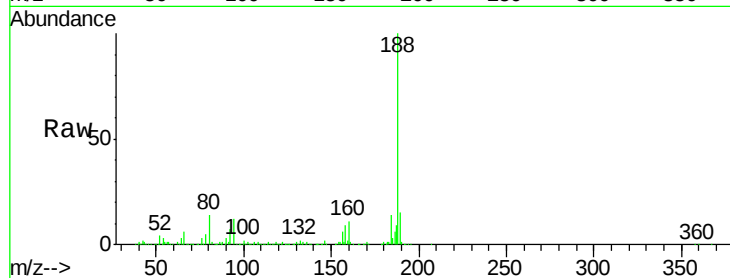
Tot Ion:188 Resp: 417583

Ion Ratio Lower Upper

188 100

94 12.3 6.8 10.2#

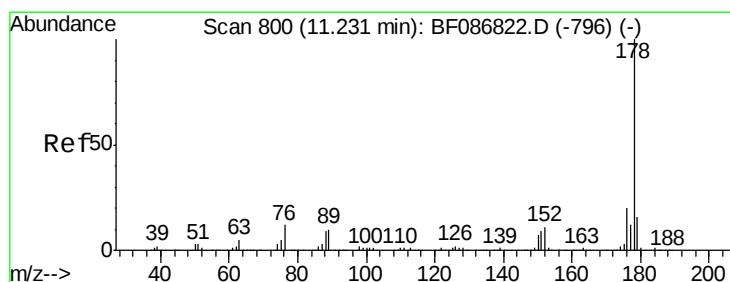
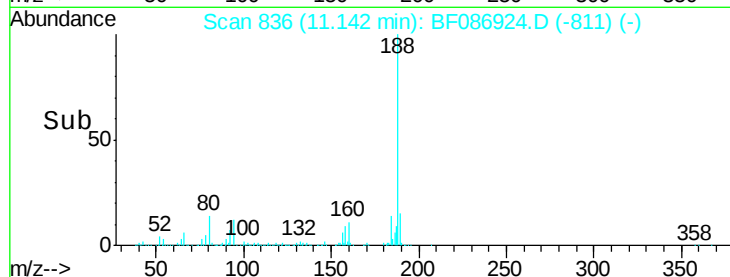
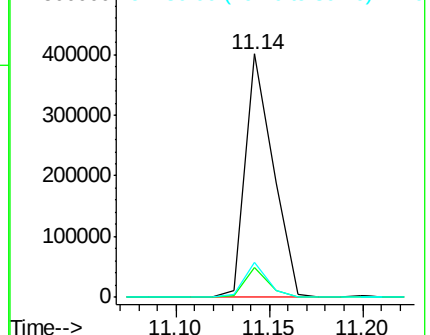
80 14.3 7.1 10.7#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 24.65 ng

RT: 11.16 min Scan# 838

Delta R.T. -0.01 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

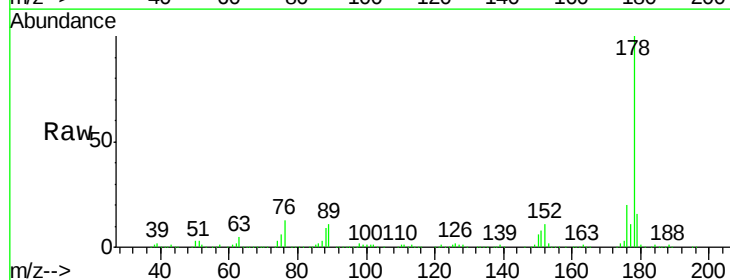
Tgt Ion:178 Resp: 549224

Ion Ratio Lower Upper

178 100

176 20.0 16.0 24.0

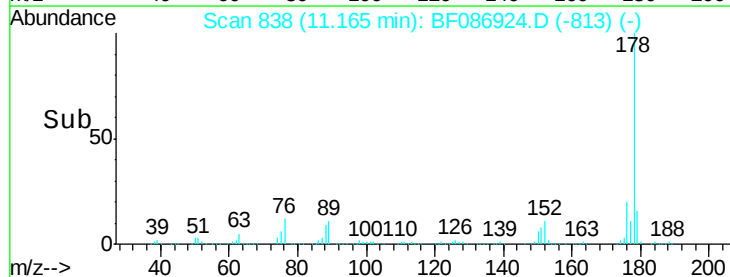
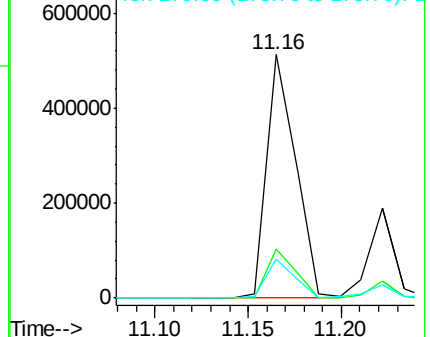
179 16.1 12.6 18.8

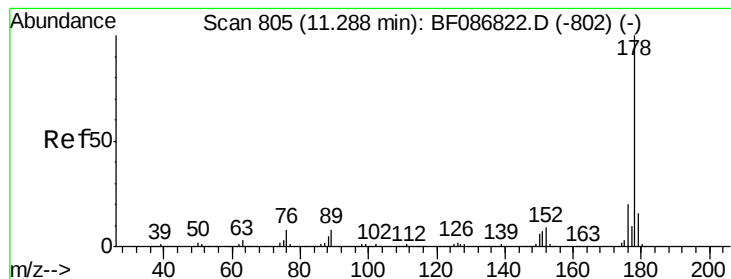


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 7.64 ng

RT: 11.22 min Scan# 843

Delta R.T. 0.00 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Instrument :

BNA_F

ClientSampleId :

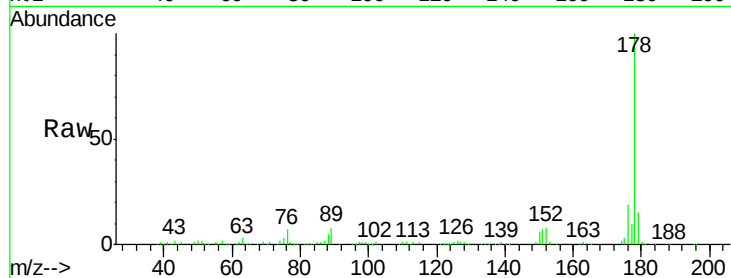
Tot Ion:178 Resp: 174043

Ion Ratio Lower Upper

178 100

176 18.5 15.6 23.4

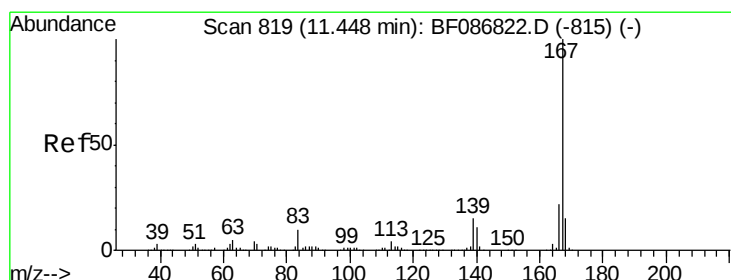
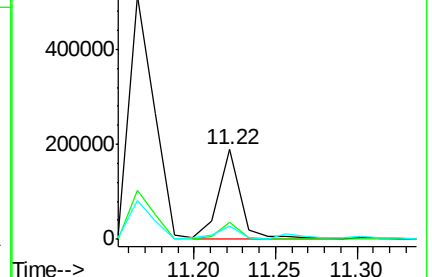
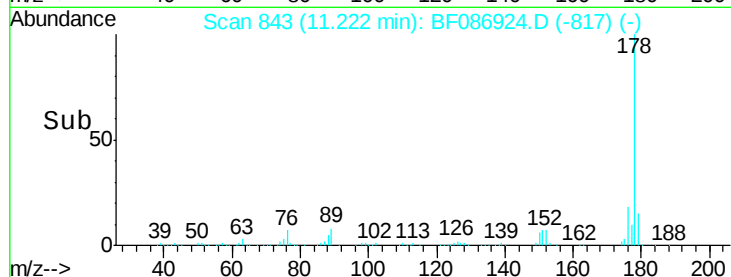
179 15.0 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 2.30 ng

RT: 11.38 min Scan# 857

Delta R.T. -0.01 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

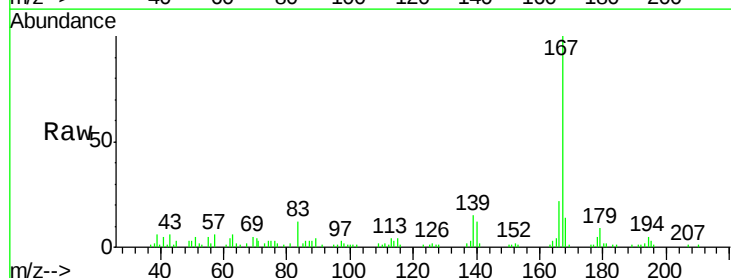
Tgt Ion:167 Resp: 45067

Ion Ratio Lower Upper

167 100

166 22.1 17.7 26.5

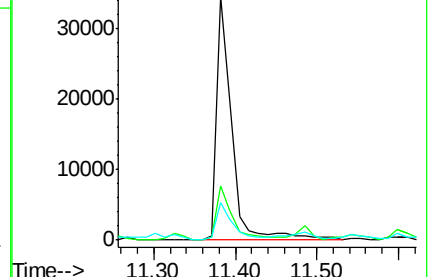
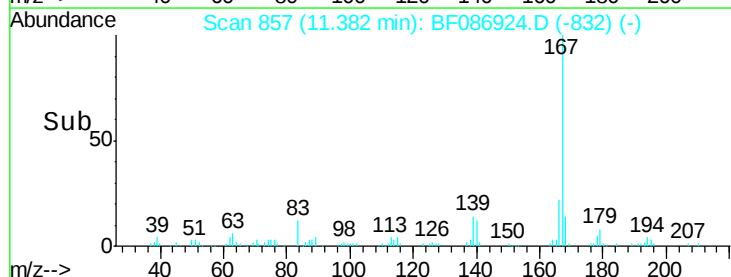
139 15.3 10.8 16.2

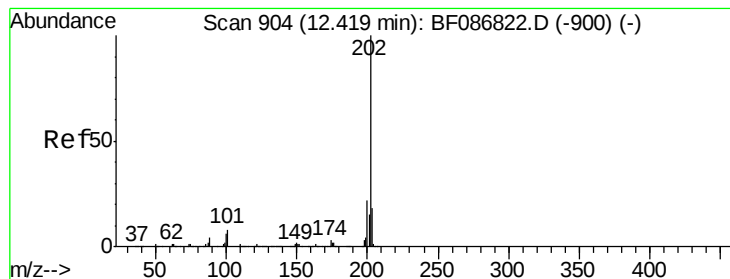


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 43.03 ng

RT: 12.35 min Scan# 942

Delta R.T. 0.00 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Instrument :

BNA_F

ClientSampled :

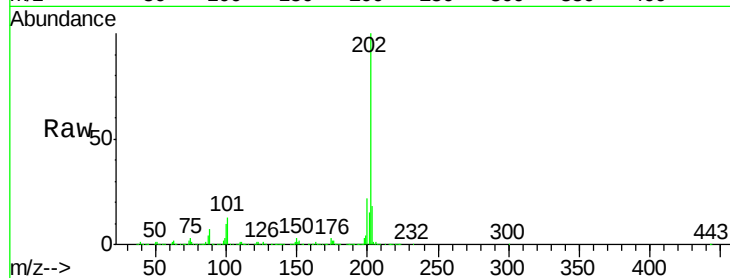
Tot Ion:202 Resp: 986323

Ion Ratio Lower Upper

202 100

101 13.3 0.0 35.4

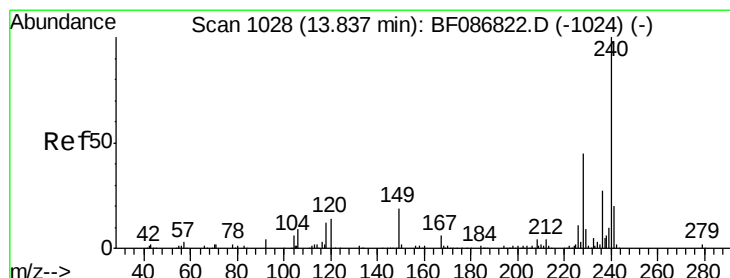
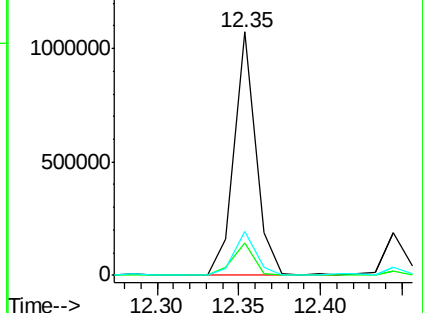
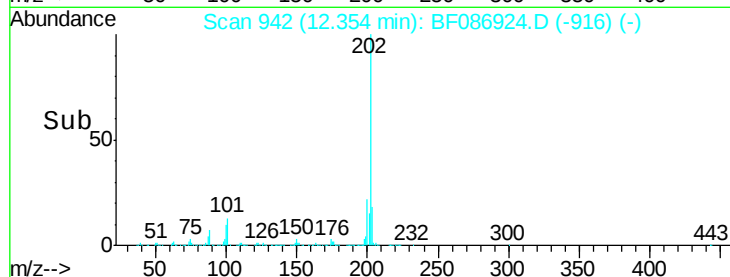
203 17.9 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.77 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

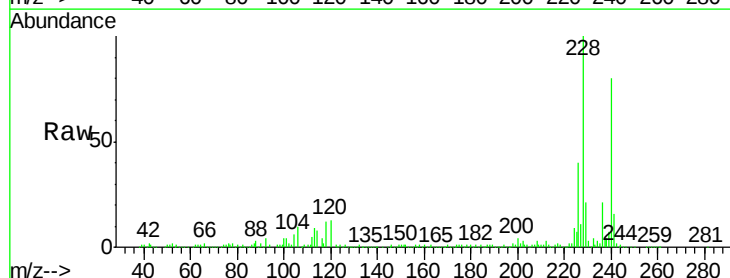
Tgt Ion:240 Resp: 396729

Ion Ratio Lower Upper

240 100

120 16.7 11.2 16.8

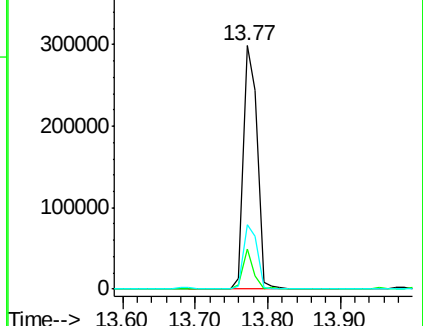
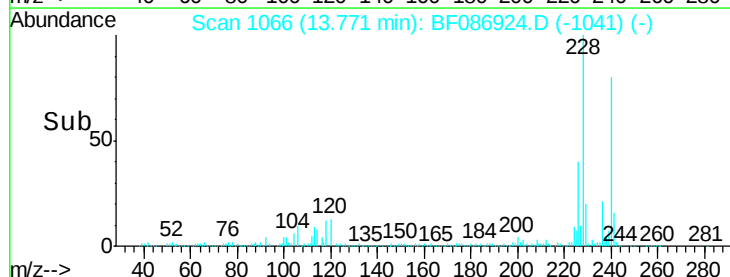
236 26.3 21.2 31.8

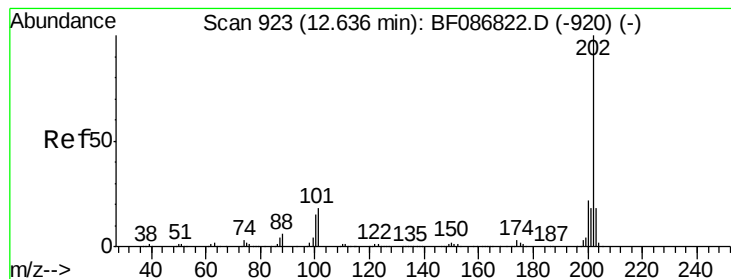


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 29.78 ng

RT: 12.58 min Scan# 962

Delta R.T. 0.00 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Instrument :

BNA_F

ClientSampleId :

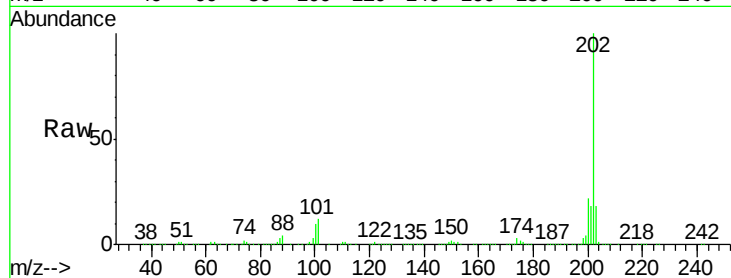
Tot Ion:202 Resp: 904600

Ion Ratio Lower Upper

202 100

200 21.8 17.7 26.5

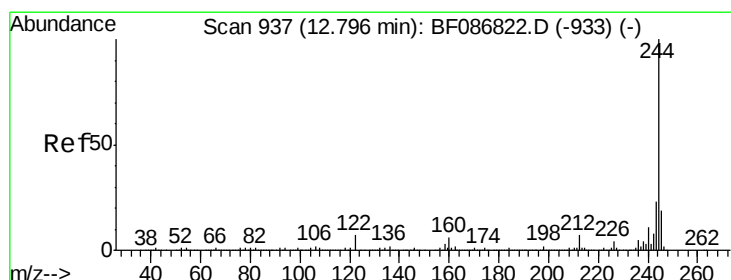
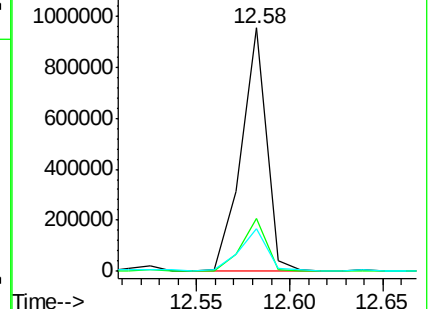
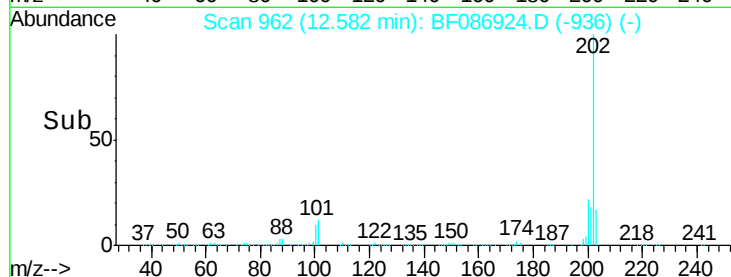
203 17.7 14.2 21.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 25.47 ng

RT: 12.73 min Scan# 975

Delta R.T. 0.00 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

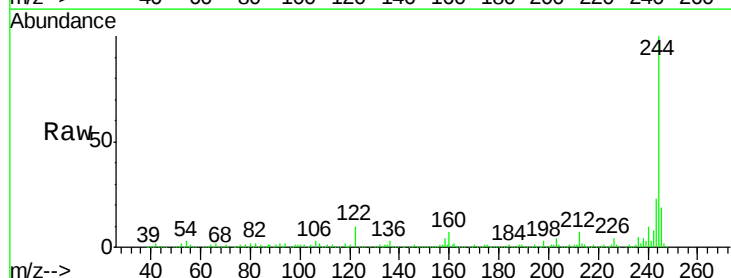
Tgt Ion:244 Resp: 476244

Ion Ratio Lower Upper

244 100

212 7.1 6.2 9.2

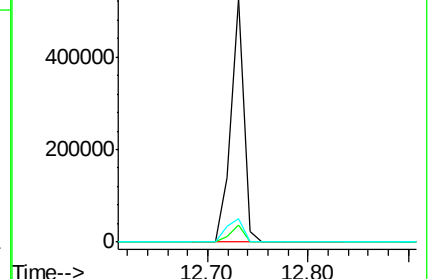
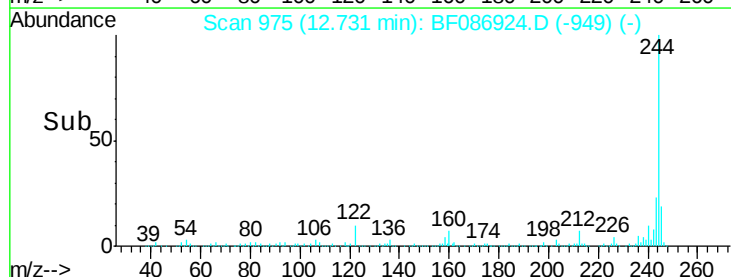
122 9.9 12.0 18.0#

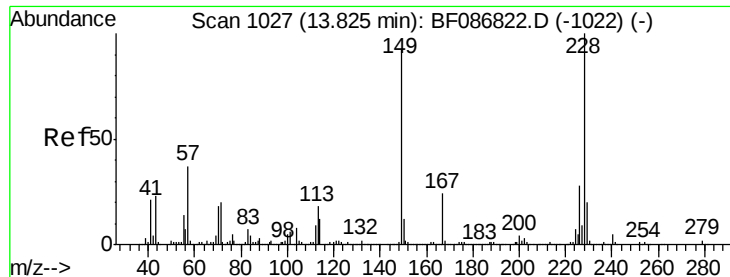


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

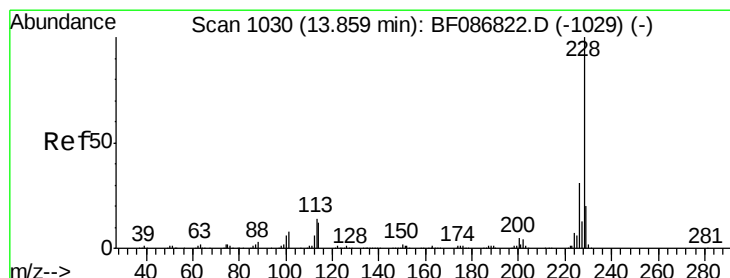
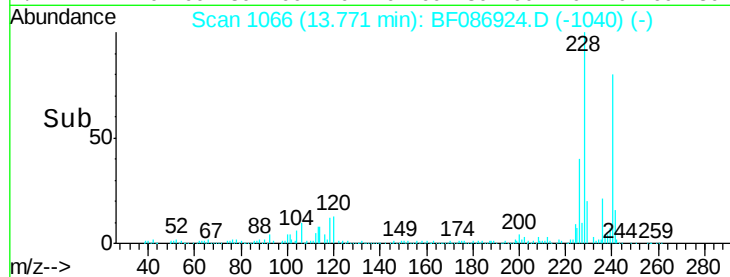
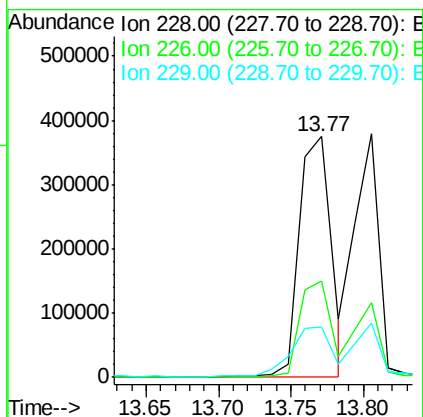
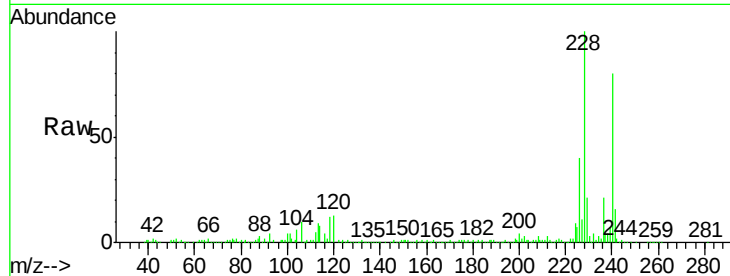




#80
Benzo(a)anthracene
Concen: 25.68 ng
RT: 13.77 min Scan# 1066
Delta R.T. 0.00 min
Lab File: BF086924.D
Acq: 12 May 2016 10:16

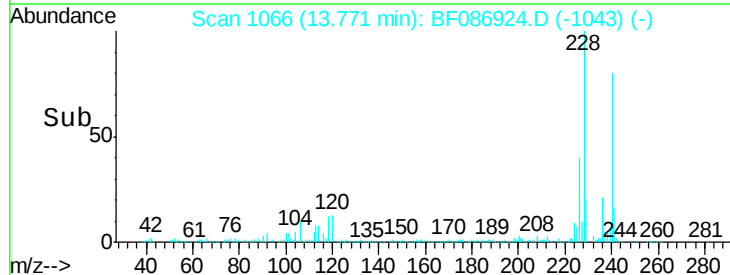
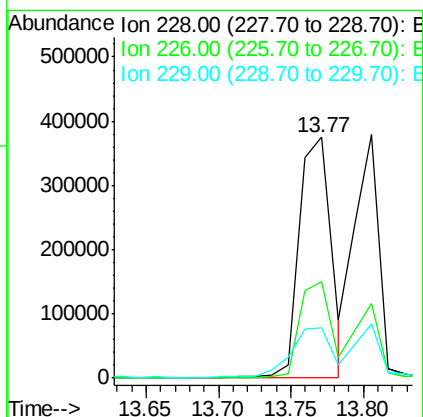
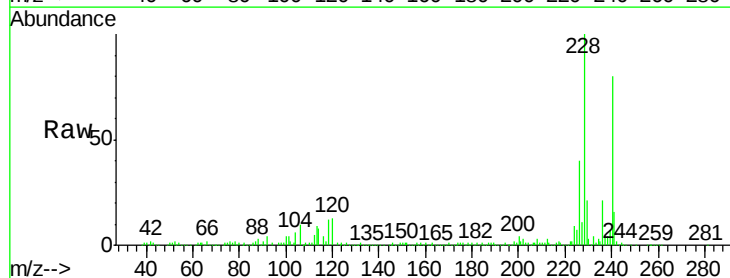
Instrument :
BNA_F
ClientSampled :

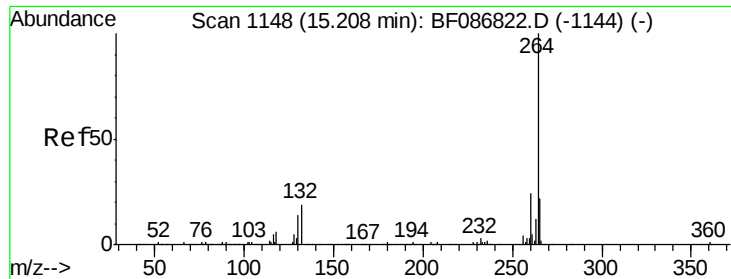
Tot Ion:228 Resp: 572031
Ion Ratio Lower Upper
228 100
226 40.0 22.5 33.7#
229 20.7 16.6 25.0



#82
Chrysene
Concen: 25.25 ng
RT: 13.77 min Scan# 1066
Delta R.T. -0.03 min
Lab File: BF086924.D
Acq: 12 May 2016 10:16

Tgt Ion:228 Resp: 572031
Ion Ratio Lower Upper
228 100
226 40.0 24.4 36.6#
229 20.7 15.8 23.8





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.14 min Scan# 1186

Delta R.T. 0.00 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Instrument :

BNA_F

ClientSampleId :

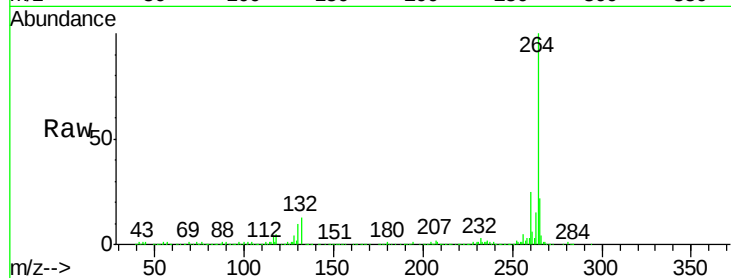
Tot Ion:264 Resp: 317688

Ion Ratio Lower Upper

264 100

260 24.7 19.5 29.3

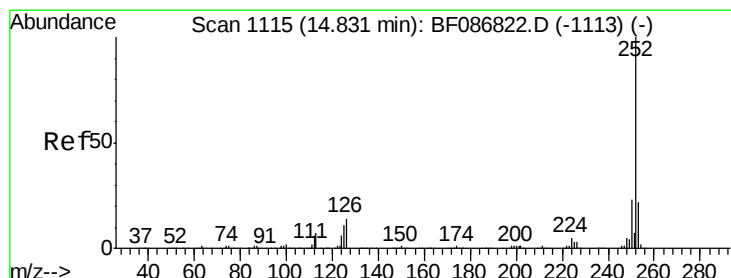
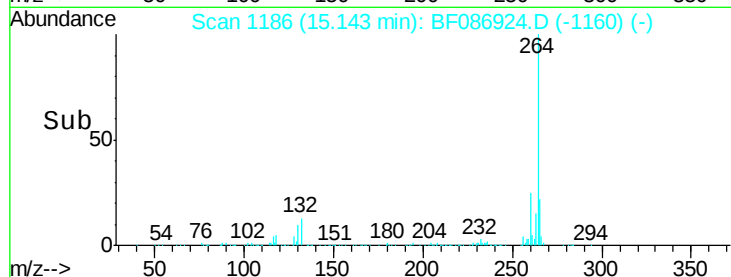
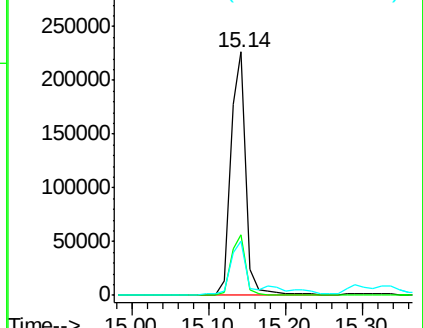
265 22.3 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 30.45 ng

RT: 14.77 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

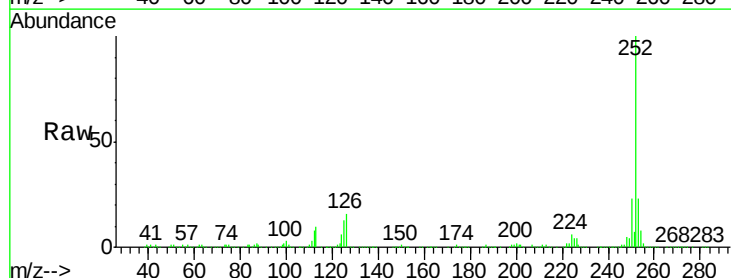
Tgt Ion:252 Resp: 628647

Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.6

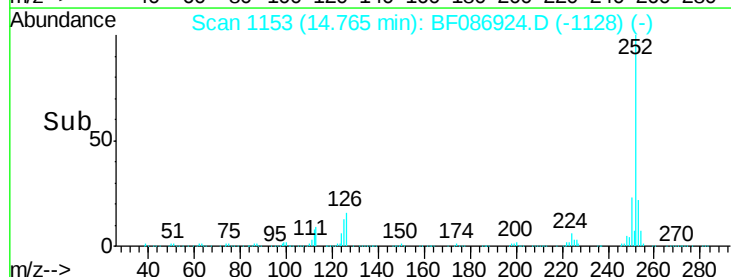
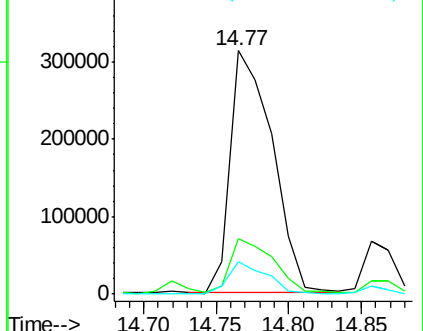
125 13.4 11.4 17.0

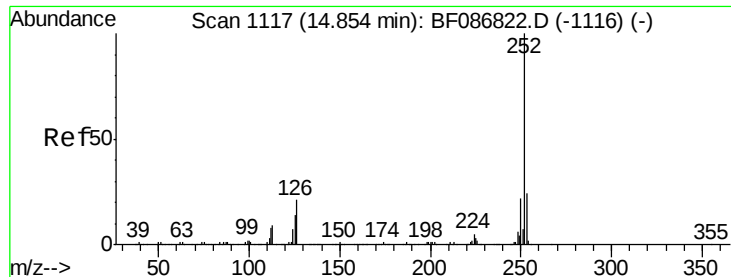


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

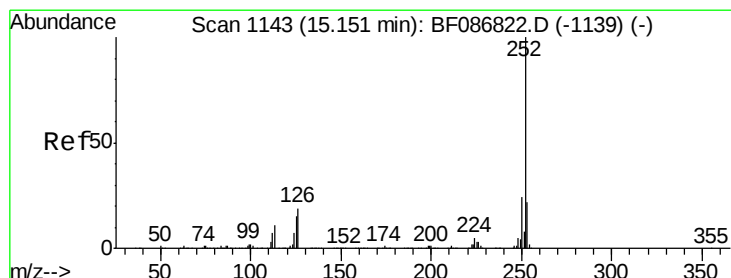
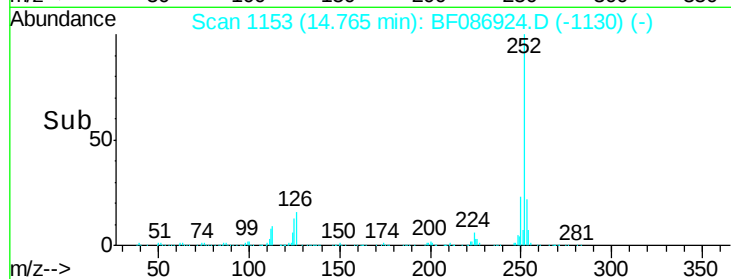
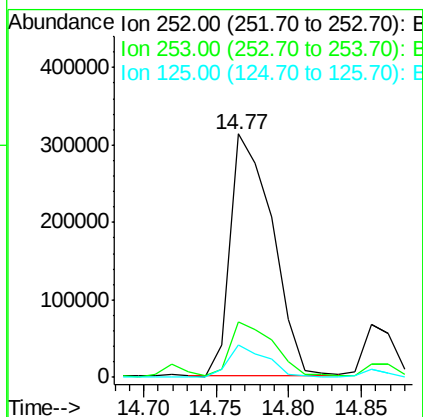
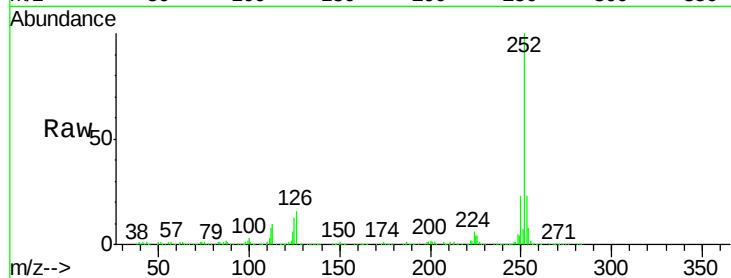




#88
Benzo(k)fluoranthene
Concen: 37.16 ng
RT: 14.77 min Scan# 1153
Delta R.T. -0.03 min
Lab File: BF086924.D
Acq: 12 May 2016 10:16

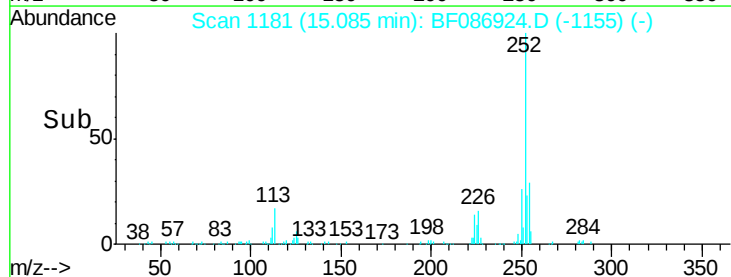
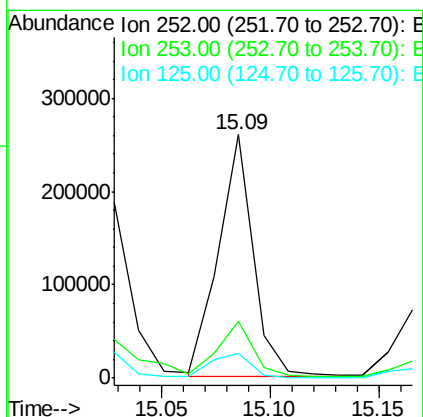
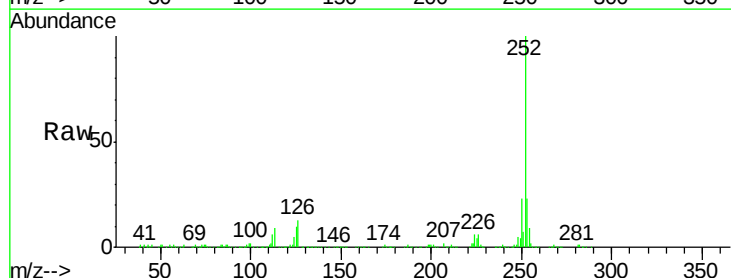
Instrument :
BNA_F
ClientSampleId :

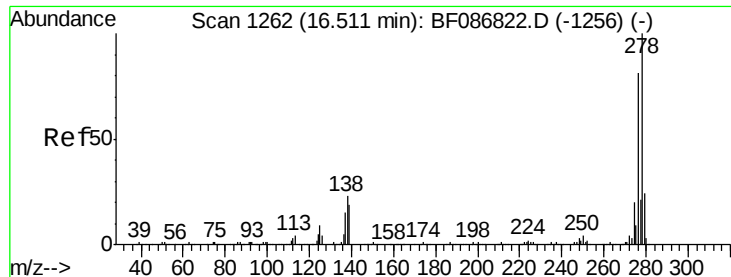
Tot Ion:252 Resp: 628224
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.6
125 13.4 9.1 13.7



#89
Benzo(a)pyrene
Concen: 16.22 ng
RT: 15.09 min Scan# 1181
Delta R.T. 0.00 min
Lab File: BF086924.D
Acq: 12 May 2016 10:16

Tgt Ion:252 Resp: 288842
Ion Ratio Lower Upper
252 100
253 23.3 17.2 25.8
125 10.1 9.0 13.6





#90

Dibenzo(a,h)anthracene

Concen: 2.06 ng

RT: 16.54 min Scan# 1308

Delta R.T. 0.13 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

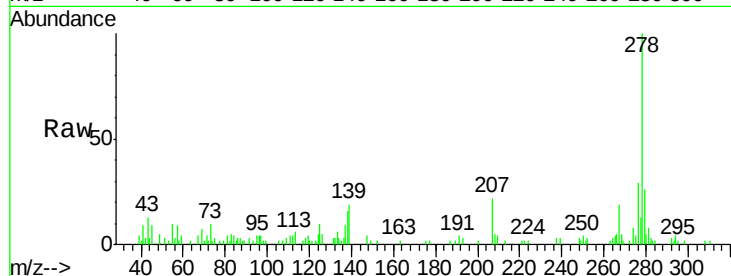
Instrument :

BNA_F

ClientSampleId :

Tot Ion:278 Resp: 30980

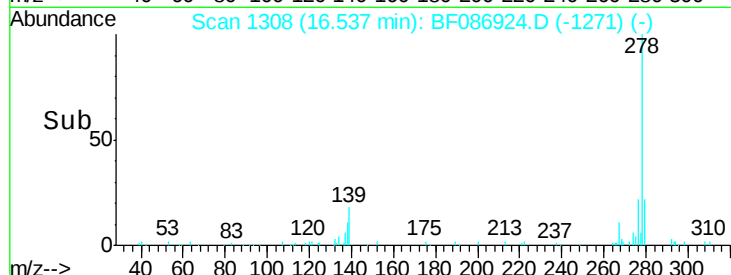
Ion	Ratio	Lower	Upper
278	100		
139	19.4	16.6	24.8
279	26.1	19.6	29.4



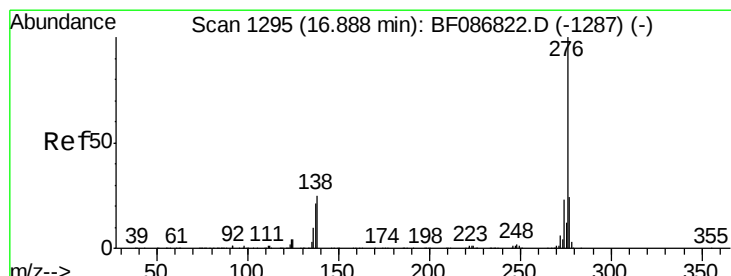
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#91

Benzo(g,h,i)perylene

Concen: 8.16 ng

RT: 16.77 min Scan# 1328

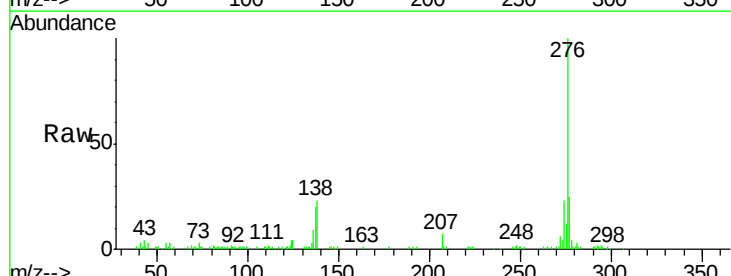
Delta R.T. -0.01 min

Lab File: BF086924.D

Acq: 12 May 2016 10:16

Tgt Ion:276 Resp: 124482

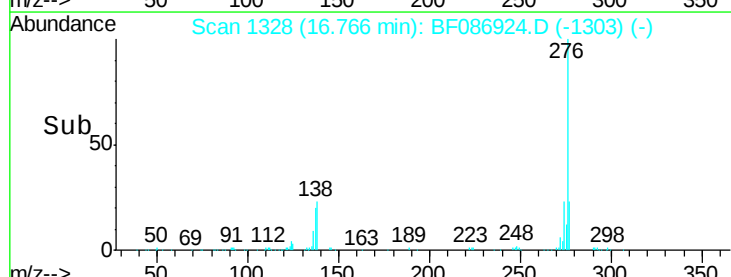
Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.6	29.4
138	23.5	23.6	35.4#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E



Time-->