

Data Path : Z:\HPCHEM1\BNA F\Data\BF012015\
 Data File : BF076984.D
 Acq On : 21 Jan 2015 4:48
 Operator : IZ / TP
 Sample : G1076-05DL 2X
 Misc : W
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 21 06:00:19 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF011415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 21 04:28:05 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.91	152	27625	20.00	ng	0.00
21) Naphthalene-d8	10.81	136	117924	20.00	ng	-0.01
38) Acenaphthene-d10	14.95	164	64614	20.00	ng	0.00
63) Phenanthrene-d10	17.74	188	110004	20.00	ng	0.00
75) Chrysene-d12	21.24	240	104147	20.00	ng	0.00
86) Perylene-d12	22.88	264	100196	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.96	112	91445	54.43	ng	0.00
7) Phenol-d6	7.30	99	116511	54.97	ng	-0.01
23) Nitrobenzene-d5	9.20	82	73413	34.49	ng	-0.01
41) 2,4,6-Tribromophenol	16.63	330	25766	49.13	ng	-0.01
44) 2-Fluorobiphenyl	13.47	172	142764	33.62	ng	-0.01
78) Terphenyl-d14	19.97	244	142000	31.39	ng	0.00

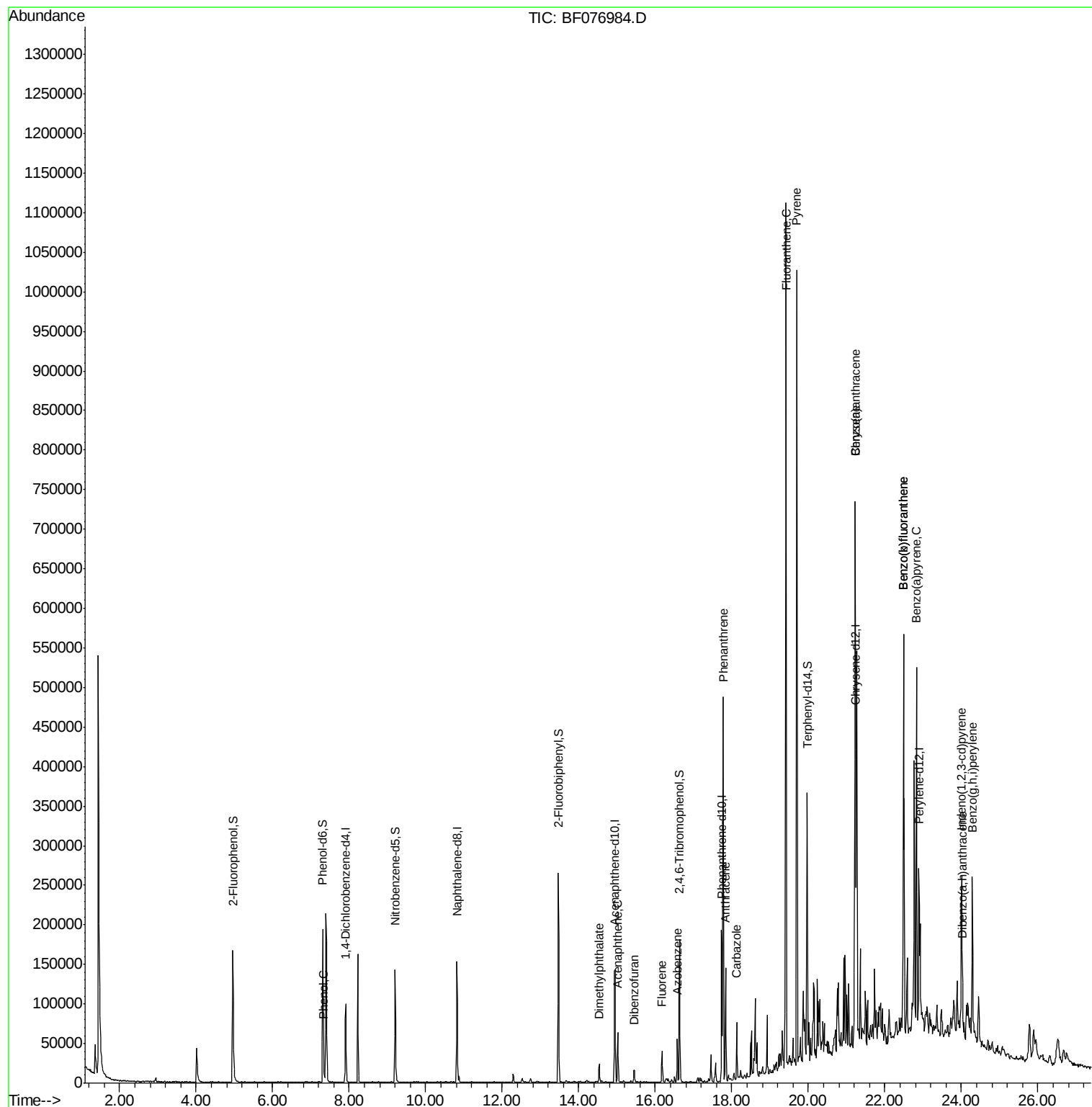
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	7.34	94	4701	2.09	ng	78
49) Dimethylphthalate	14.54	163	17661	3.85	ng	# 97
51) Acenaphthene	15.02	154	25040	6.64	ng	97
54) Dibenzofuran	15.45	168	15229	2.77	ng	93
57) Fluorene	16.17	166	17740	3.81	ng	95
62) Azobenzene	16.57	77	15228	3.16	ng	# 1
70) Phenanthrene	17.77	178	291578	42.50	ng	98
71) Anthracene	17.84	178	74546	11.14	ng	98
72) Carbazole	18.13	167	37105	5.72	ng	97
74) Fluoranthene	19.42	202	587208	83.54	ng	97
77) Pyrene	19.69	202	536649	75.19	ng	# 96
80) Benzo(a)anthracene	21.23	228	310664	47.54	ng	99
82) Chrysene	21.23	228	306726	51.47	ng	97
85) Indeno(1,2,3-cd)pyrene	24.00	276	135681	21.48	ng	# 85
87) Benzo(b)fluoranthene	22.48	252	425229	63.01	ng	# 98
88) Benzo(k)fluoranthene	22.48	252	425137	72.11	ng	99
89) Benzo(a)pyrene	22.83	252	207039	34.78	ng	98
90) Dibenzo(a,h)anthracene	24.03	278	35775	6.55	ng	# 86
91) Benzo(a,h,i)perylene	24.29	276	125129	23.04	ng	# 94

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

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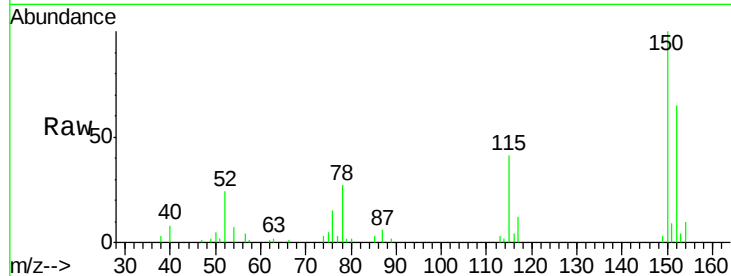


#1

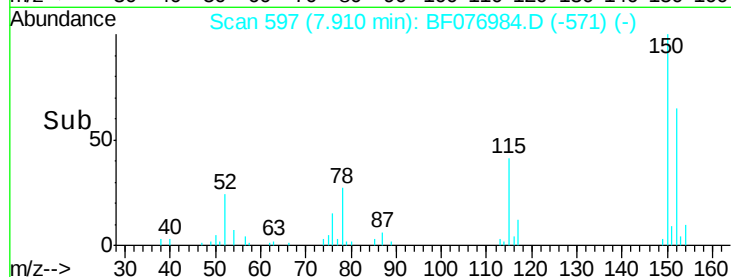
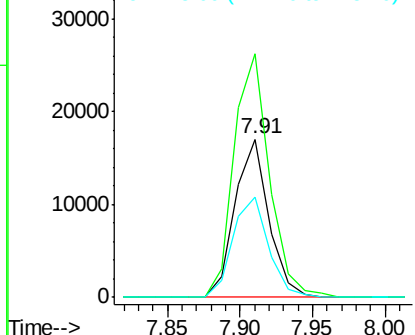
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.91 min Scan# 597
Delta R.T. 0.00 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 27625
Ion Ratio Lower Upper
152 100
150 153.8 121.7 182.5
115 63.0 47.0 70.6



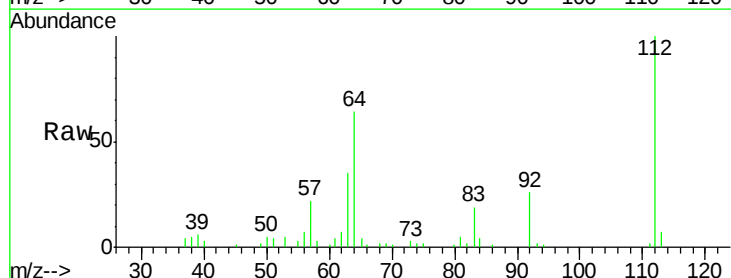
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



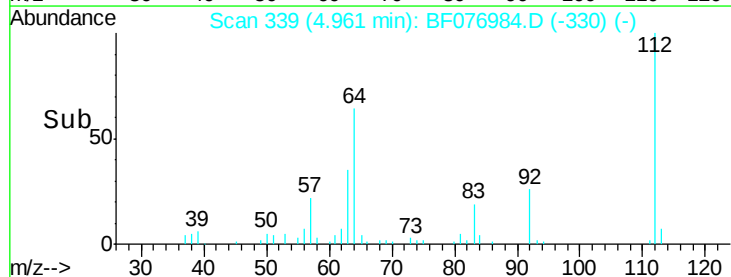
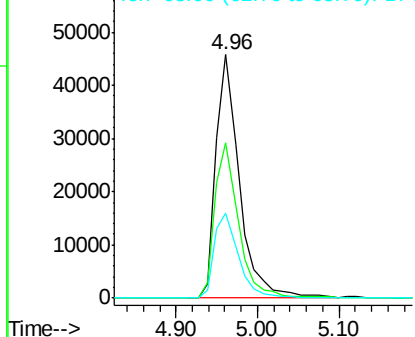
#5

2-Fluorophenol
Concen: 54.43 ng
RT: 4.96 min Scan# 339
Delta R.T. 0.00 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

Tgt Ion:112 Resp: 91445
Ion Ratio Lower Upper
112 100
64 63.7 54.2 81.4
63 34.9 28.4 42.6



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: 54.97 ng

RT: 7.30 min Scan# 544

Delta R.T. -0.01 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

Instrument :

BNA_F

ClientSampled :

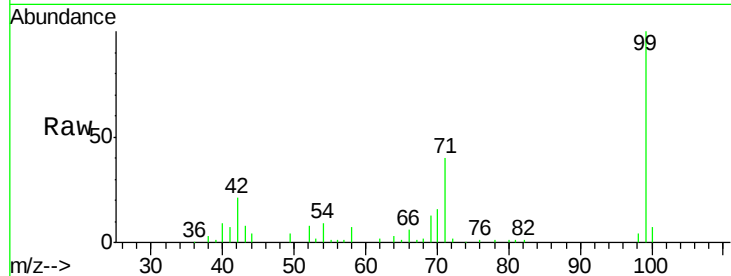
Tot Ion: 99 Resp: 116511

Ion Ratio Lower Upper

99 100

42 21.2 15.0 22.4

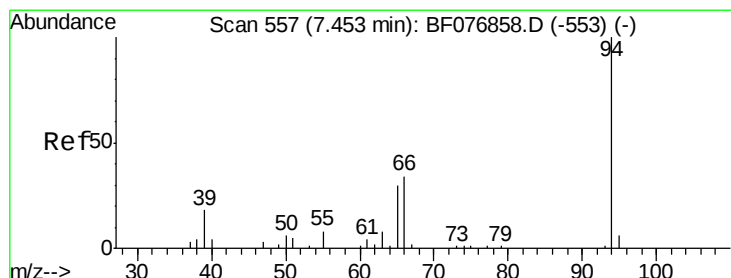
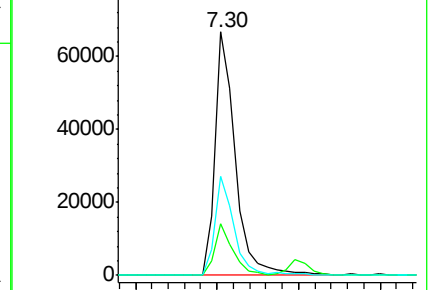
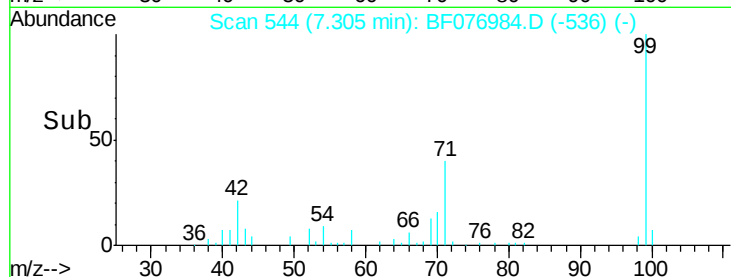
71 40.5 30.5 45.7



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



#10

Phenol

Concen: 2.09 ng

RT: 7.34 min Scan# 547

Delta R.T. -0.01 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

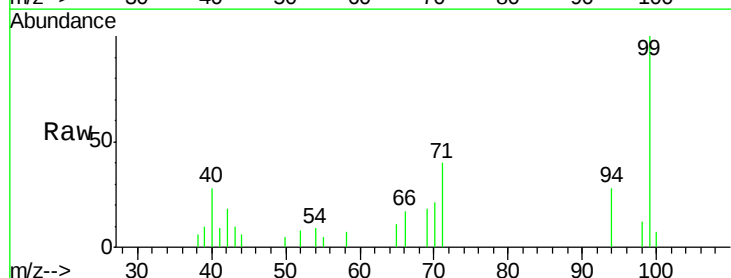
Tgt Ion: 94 Resp: 4701

Ion Ratio Lower Upper

94 100

65 37.3 11.3 51.3

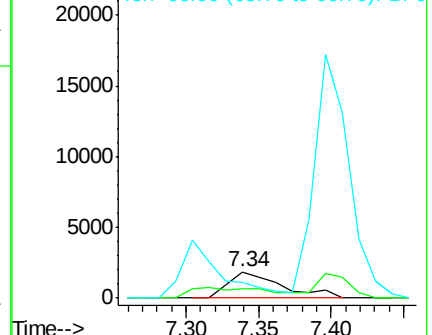
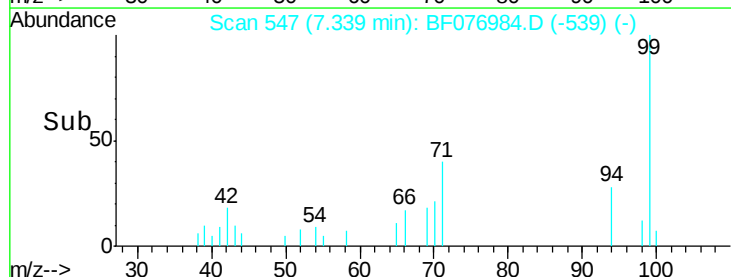
66 58.1 19.5 59.5

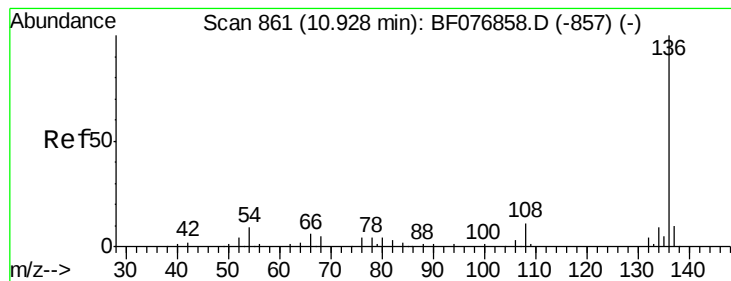


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.81 min Scan# 851

Delta R.T. -0.01 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 117924

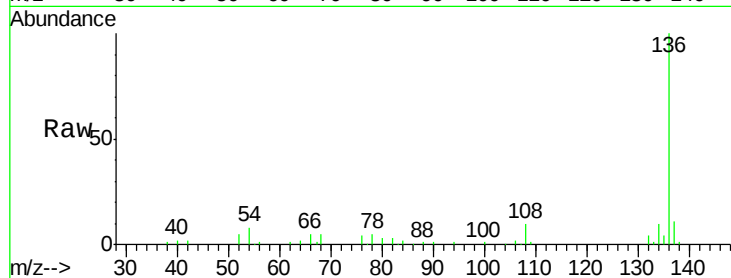
Ion Ratio Lower Upper

136 100

137 11.2 8.1 12.1

54 7.7 7.0 10.4

68 4.7 3.7 5.5

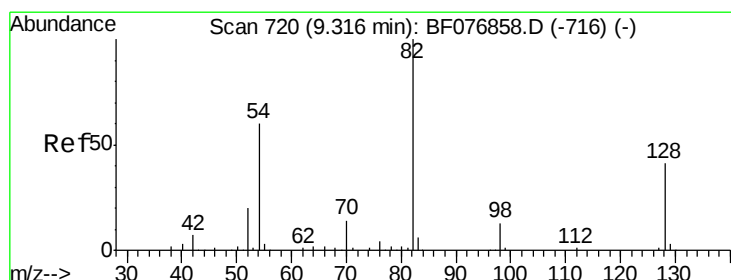
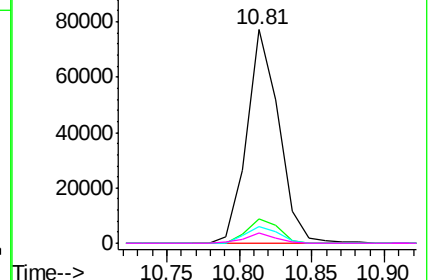
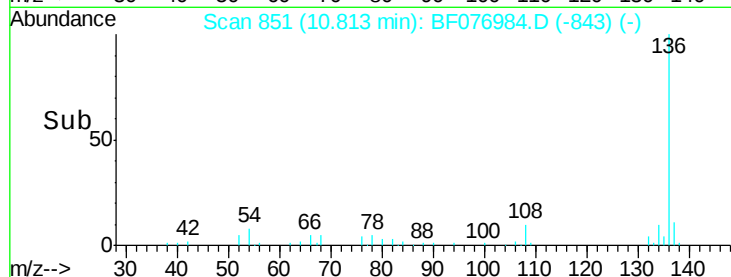


Abundance Ion 136.00 (135.70 to 136.70): E

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: 34.49 ng

RT: 9.20 min Scan# 710

Delta R.T. -0.01 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

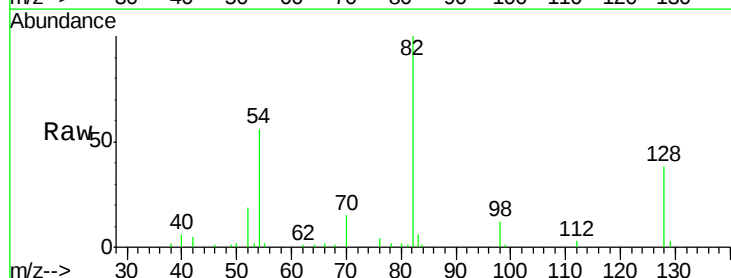
Tgt Ion: 82 Resp: 73413

Ion Ratio Lower Upper

82 100

128 38.4 33.1 49.7

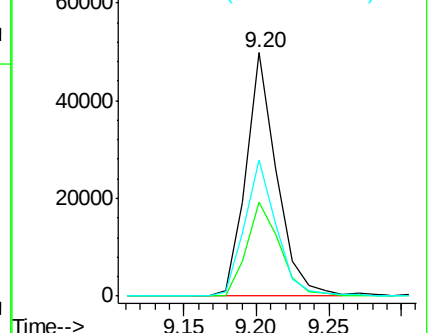
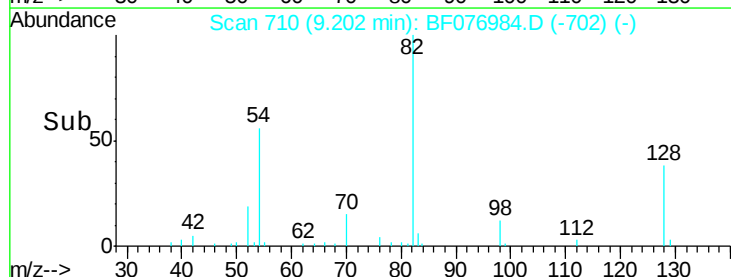
54 55.9 48.3 72.5



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.95 min Scan# 1213

Delta R.T. 0.00 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

Instrument :

BNA_F

ClientSampleId :

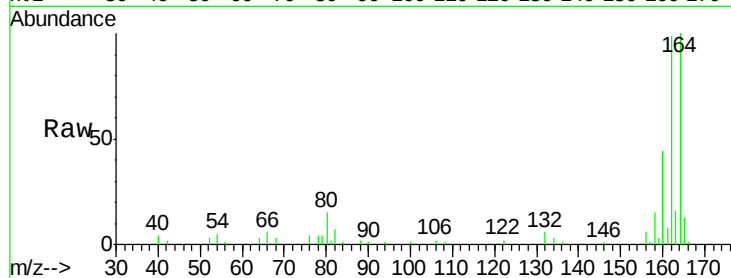
Tot Ion:164 Resp: 64614

Ion Ratio Lower Upper

164 100

162 99.3 82.4 123.6

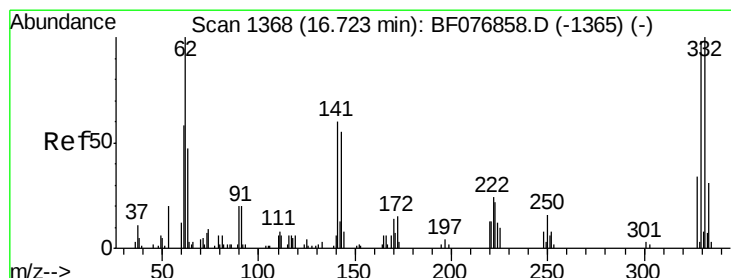
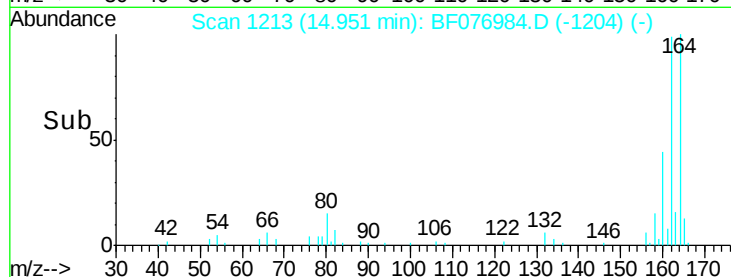
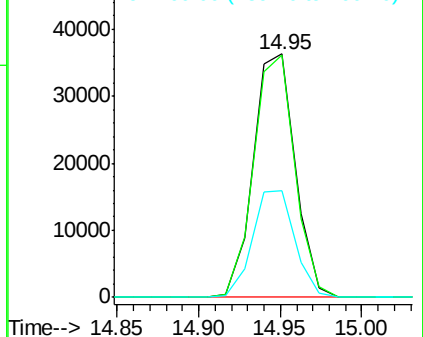
160 43.7 34.8 52.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 49.13 ng

RT: 16.63 min Scan# 1360

Delta R.T. -0.01 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

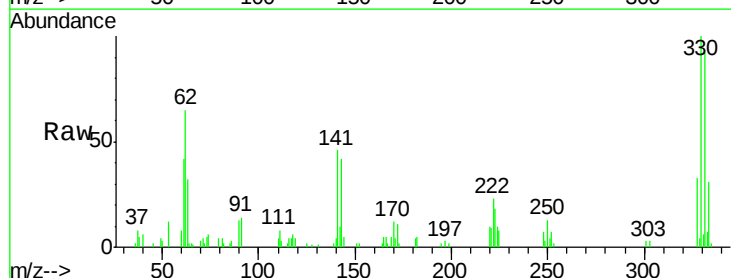
Tgt Ion:330 Resp: 25766

Ion Ratio Lower Upper

330 100

332 91.9 77.8 116.6

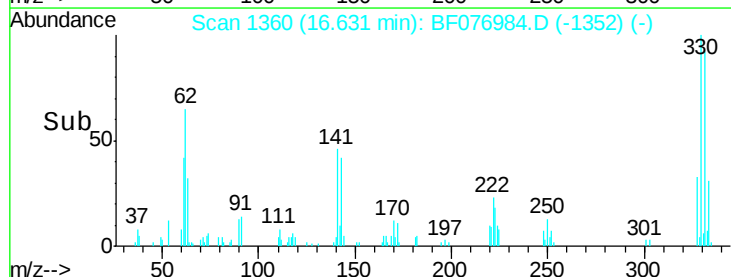
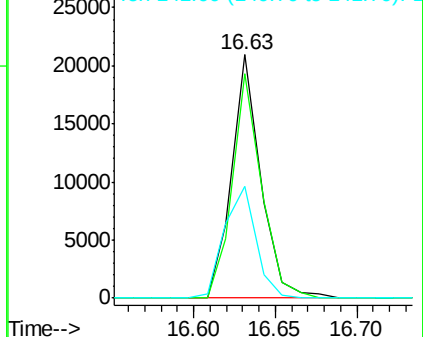
141 50.1 38.5 57.7

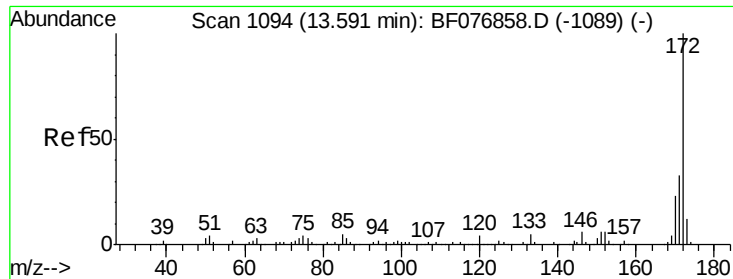


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

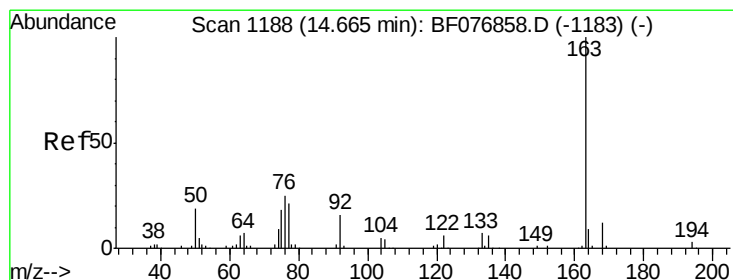
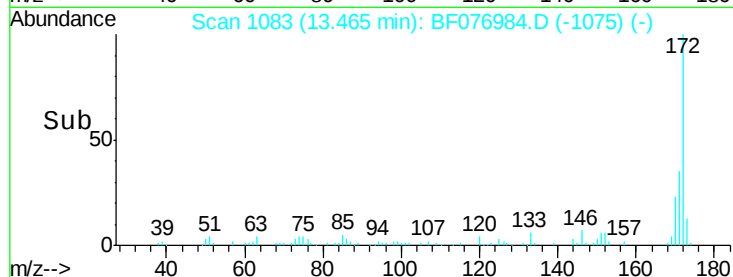
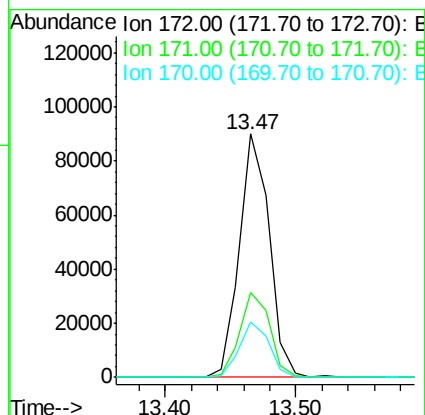
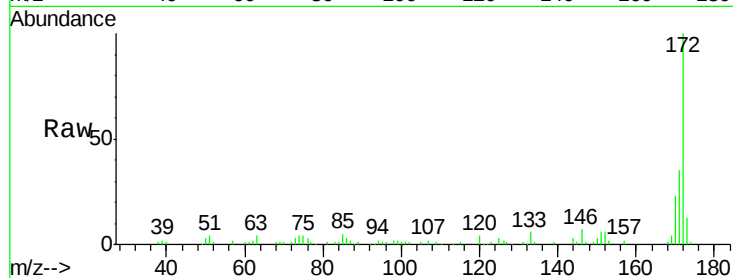




#44
2-Fluorobiphenyl
Concen: 33.62 ng
RT: 13.47 min Scan# 1083
Delta R.T. -0.01 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

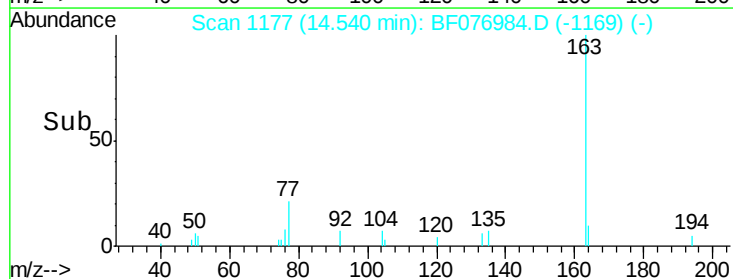
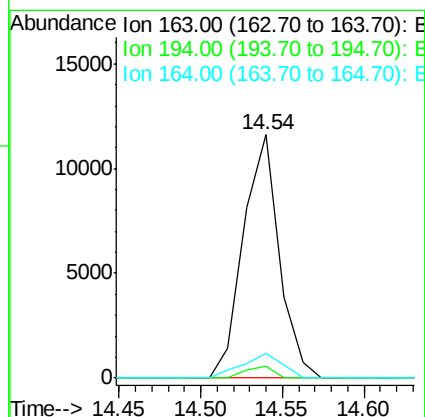
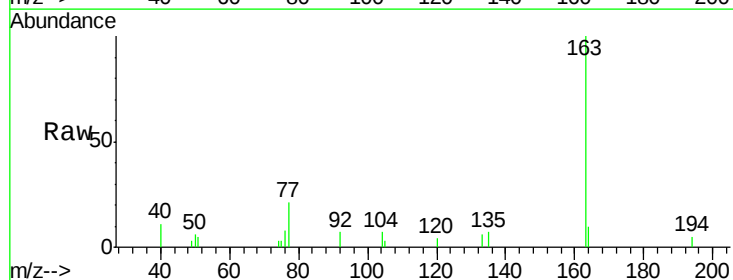
Instrument :
BNA_F
ClientSampled :

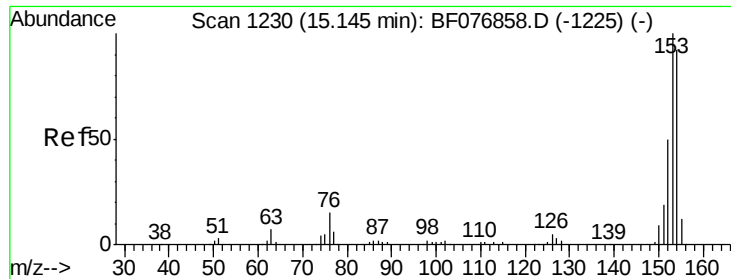
Tot Ion:172 Resp: 142764
Ion Ratio Lower Upper
172 100
171 34.8 26.6 40.0
170 22.9 18.0 27.0



#49
Dimethylphthalate
Concen: 3.85 ng
RT: 14.54 min Scan# 1177
Delta R.T. -0.01 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

Tgt Ion:163 Resp: 17661
Ion Ratio Lower Upper
163 100
194 5.0 2.6 4.0#
164 10.4 7.5 11.3





#51

Acenaphthene

Concen: 6.64 ng

RT: 15.02 min Scan# 1219

Delta R.T. -0.01 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

Instrument :

BNA_F

ClientSampleId :

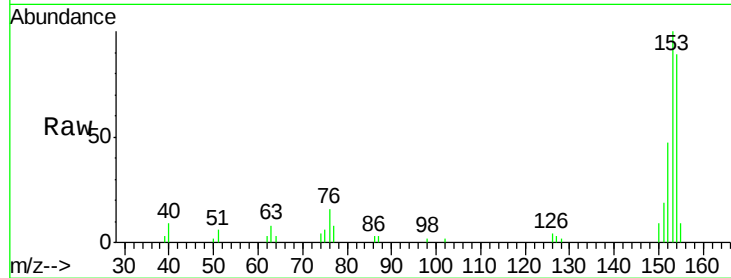
Tot Ion:154 Resp: 25040

Ion Ratio Lower Upper

154 100

153 112.2 87.0 130.6

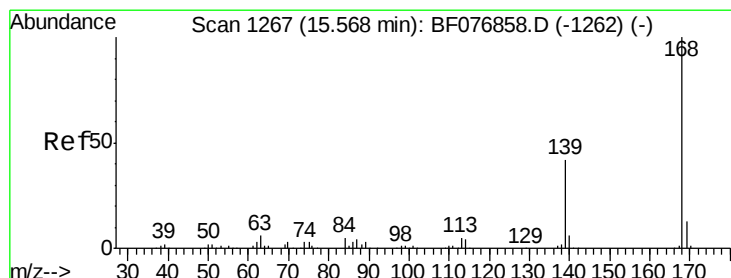
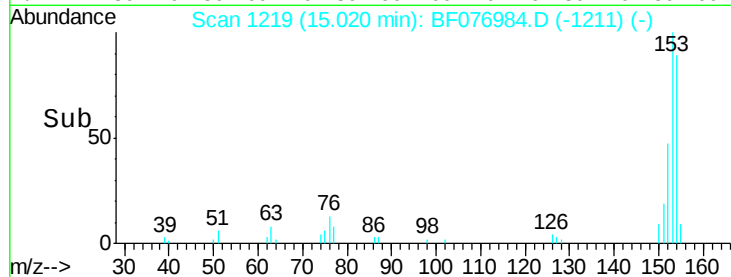
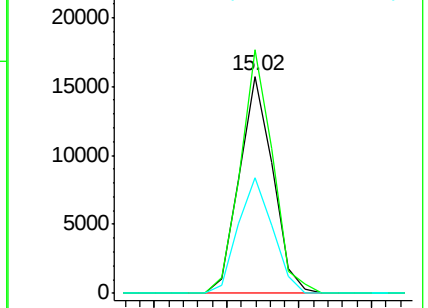
152 53.1 43.5 65.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.77 ng

RT: 15.45 min Scan# 1257

Delta R.T. 0.00 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

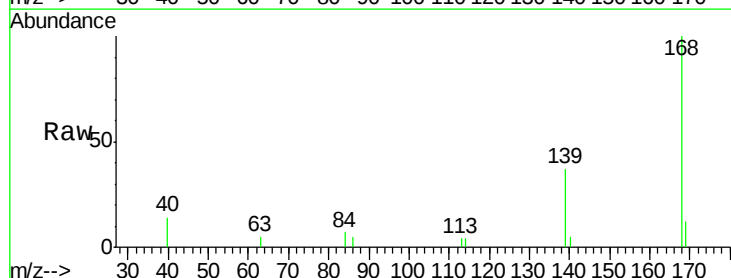
Tgt Ion:168 Resp: 15229

Ion Ratio Lower Upper

168 100

139 36.8 33.4 50.2

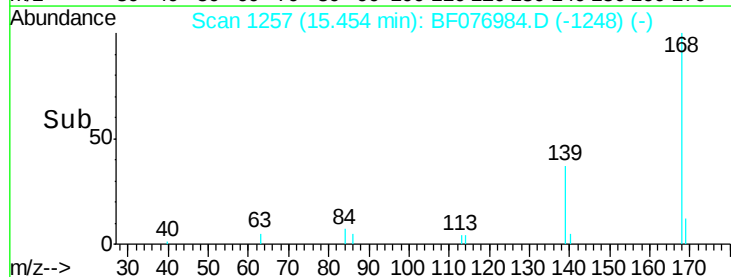
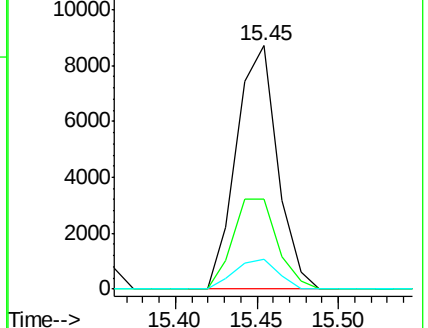
169 12.4 10.6 15.8

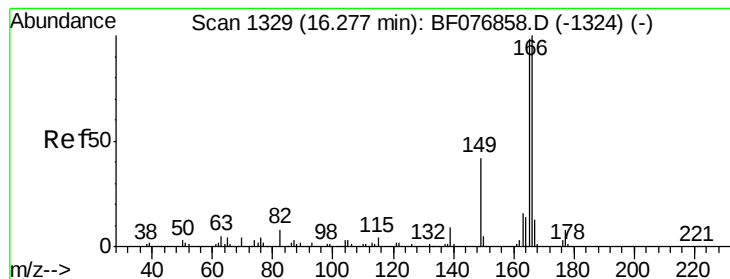


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 3.81 ng

RT: 16.17 min Scan# 1320

Delta R.T. 0.00 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

Instrument :

BNA_F

ClientSampleId :

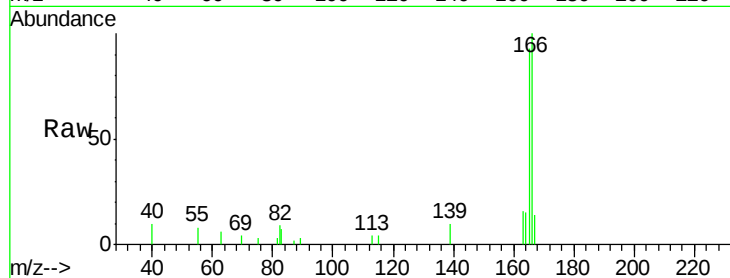
Tot Ion:166 Resp: 17740

Ion Ratio Lower Upper

166 100

165 92.7 78.5 117.7

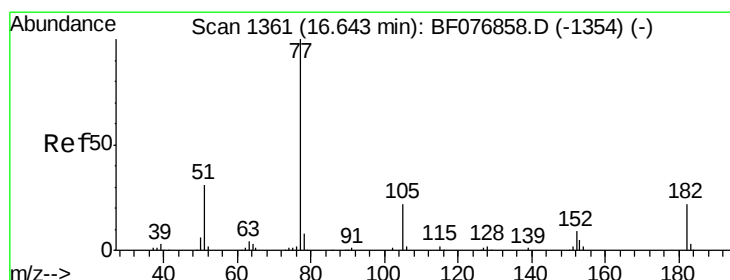
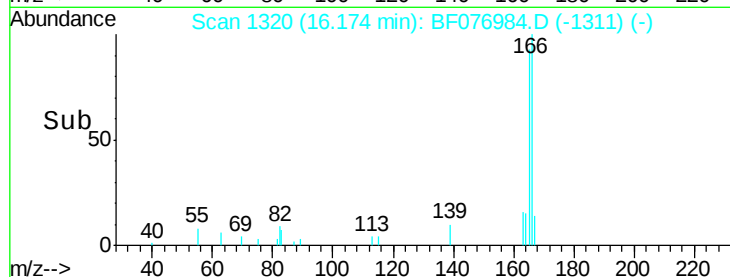
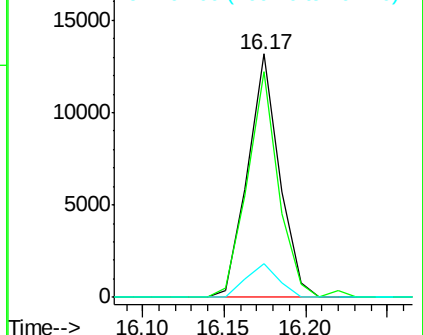
167 13.8 10.4 15.6



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



#62

Azobenzene

Concen: 3.16 ng

RT: 16.57 min Scan# 1355

Delta R.T. 0.02 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

Tgt Ion: 77 Resp: 15228

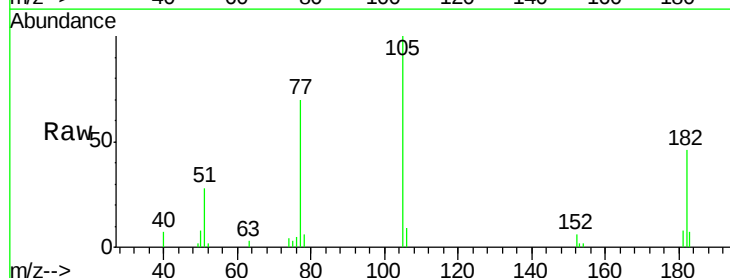
Ion Ratio Lower Upper

77 100

182 65.8 2.0 42.0#

105 142.8 2.3 42.3#

51 40.3 10.7 50.7

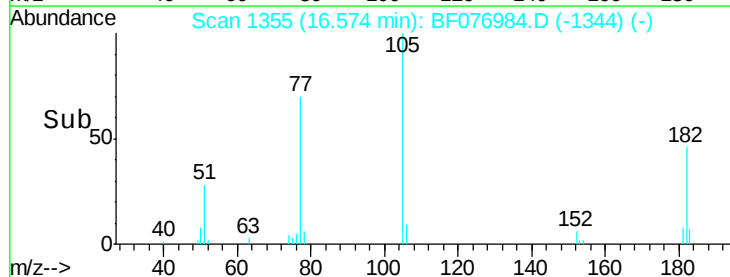
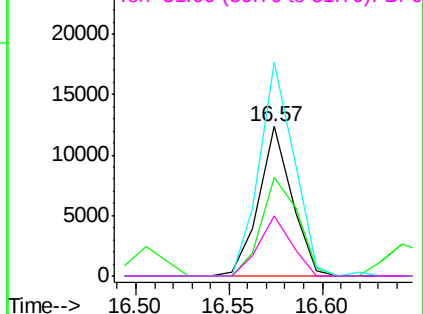


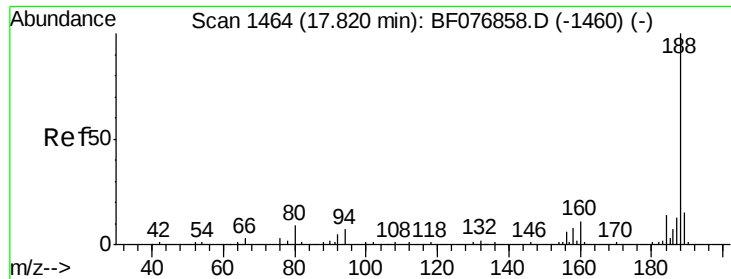
Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0

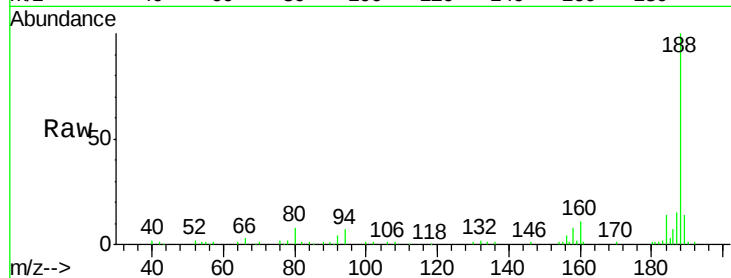




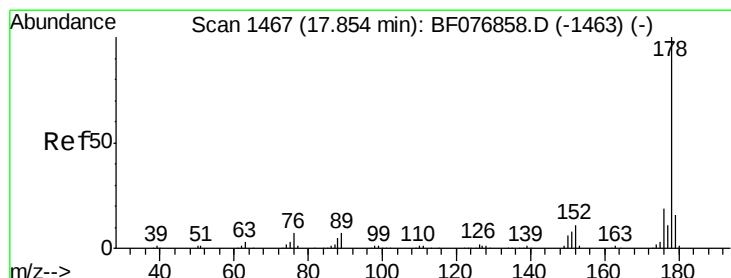
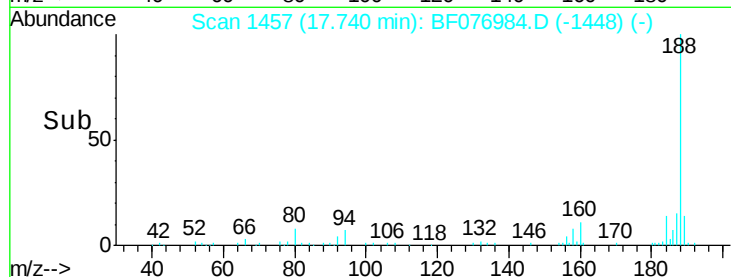
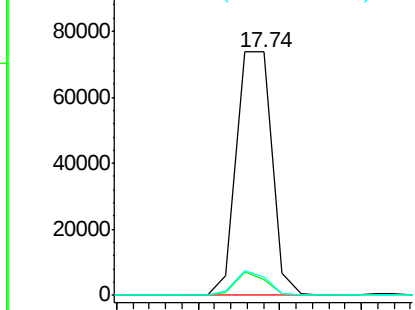
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.74 min Scan# 1457
Delta R.T. 0.00 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 110004
Ion Ratio Lower Upper
188 100
94 6.6 6.0 9.0
80 7.8 6.9 10.3

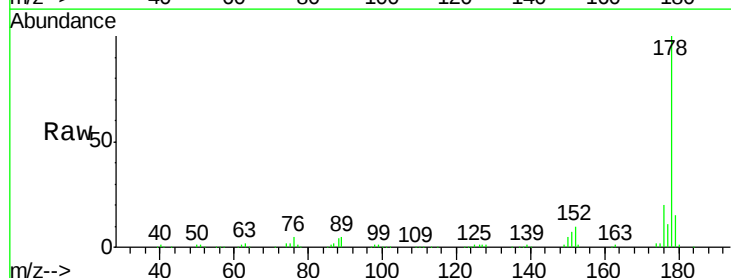


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

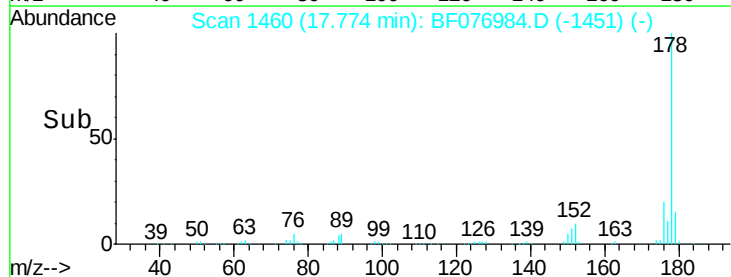
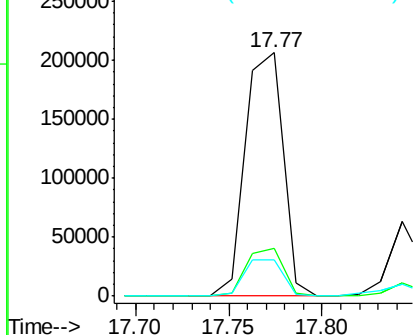


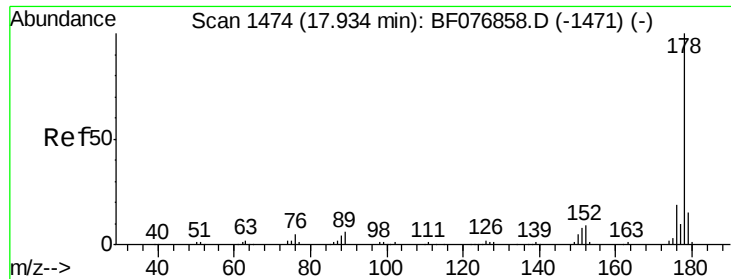
#70
Phenanthrene
Concen: 42.50 ng
RT: 17.77 min Scan# 1460
Delta R.T. 0.00 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

Tgt Ion:178 Resp: 291578
Ion Ratio Lower Upper
178 100
176 19.7 15.1 22.7
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

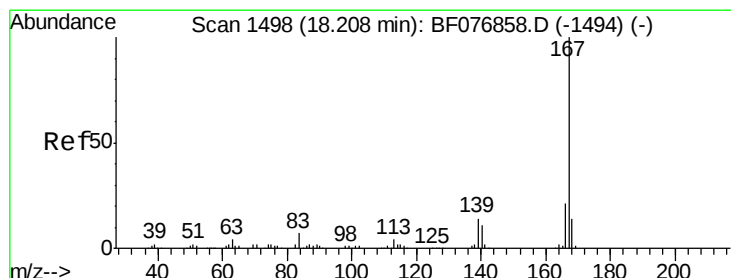
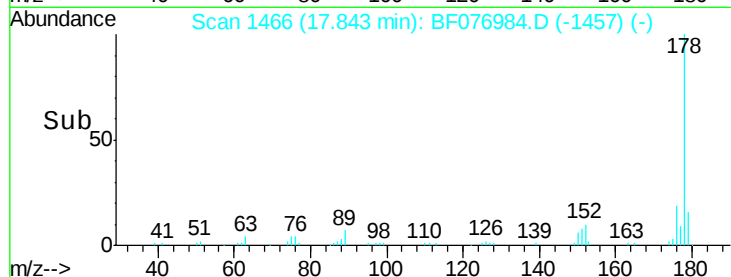
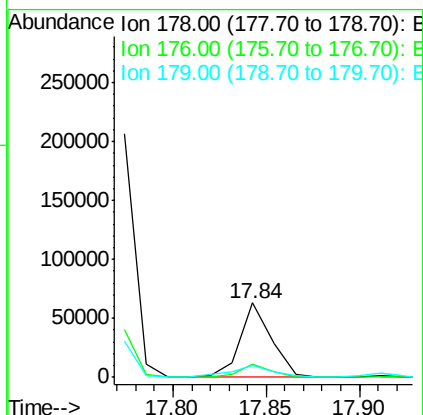
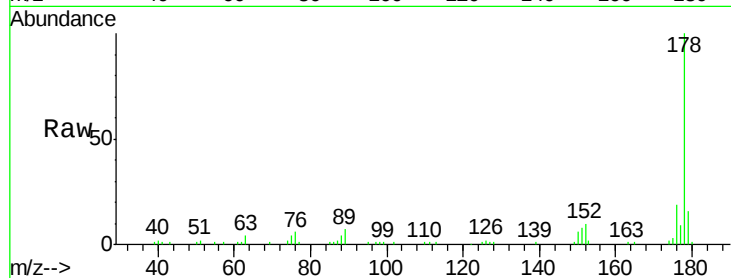




#71
 Anthracene
 Concen: 11.14 ng
 RT: 17.84 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: BF076984.D
 Acq: 21 Jan 2015 4:48

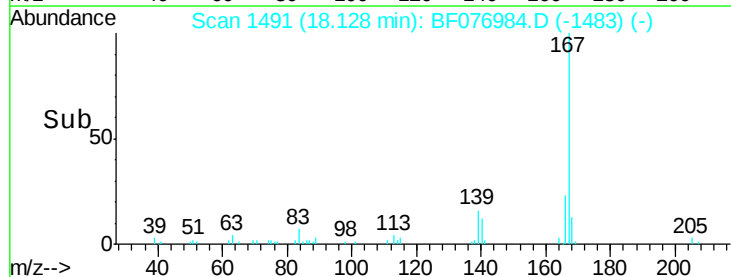
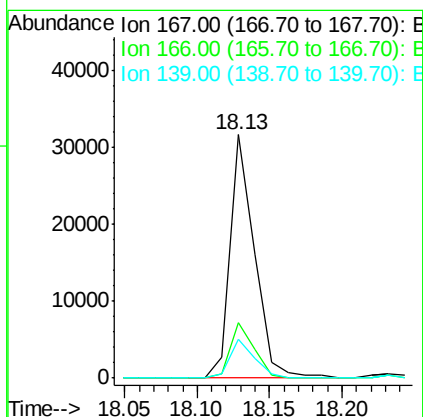
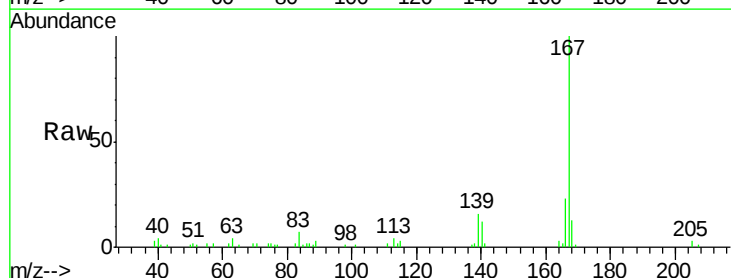
Instrument :
 BNA_F
 ClientSampleId :

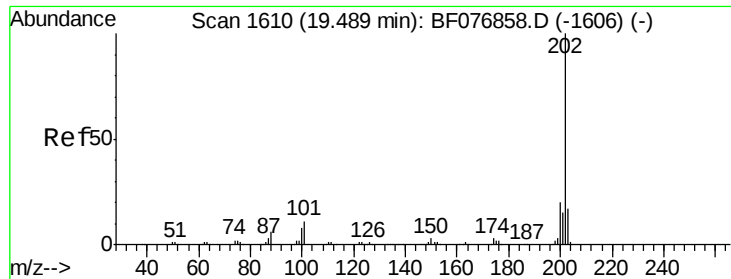
Tot Ion:178 Resp: 74546
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.4 23.0
 179 15.6 11.9 17.9



#72
 Carbazole
 Concen: 5.72 ng
 RT: 18.13 min Scan# 1491
 Delta R.T. -0.01 min
 Lab File: BF076984.D
 Acq: 21 Jan 2015 4:48

Tgt Ion:167 Resp: 37105
 Ion Ratio Lower Upper
 167 100
 166 22.5 17.0 25.6
 139 15.7 11.3 16.9





#74

Fluoranthene

Concen: 83.54 ng

RT: 19.42 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

Instrument :

BNA_F

ClientSampleId :

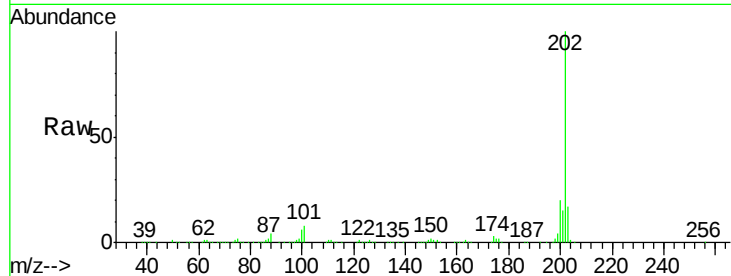
Tot Ion:202 Resp: 587208

Ion Ratio Lower Upper

202 100

101 7.7 0.0 30.7

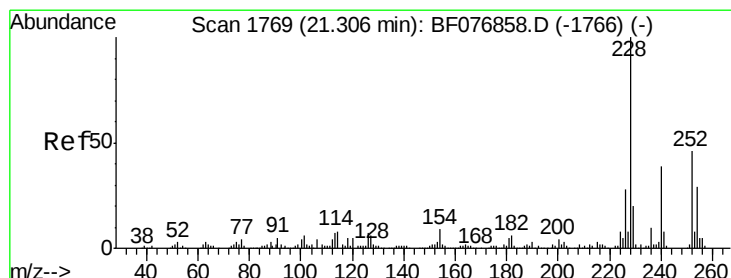
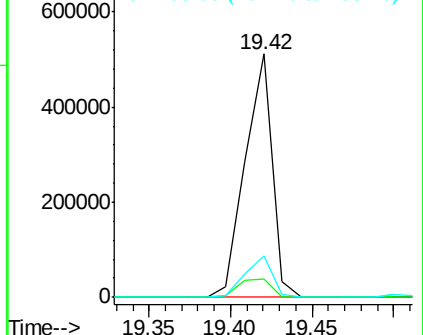
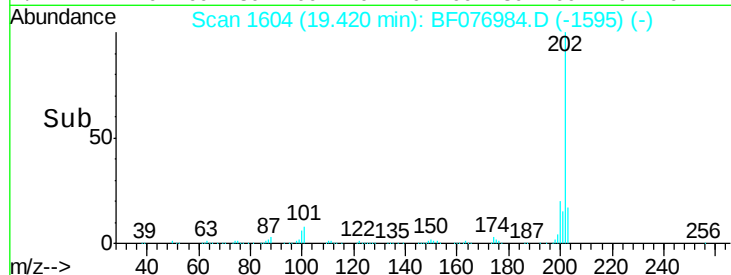
203 17.0 0.0 36.9



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: 21.24 min Scan# 1763

Delta R.T. 0.00 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

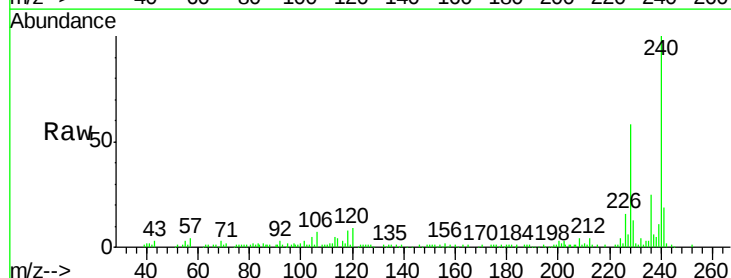
Tgt Ion:240 Resp: 104147

Ion Ratio Lower Upper

240 100

120 9.4 10.4 15.6#

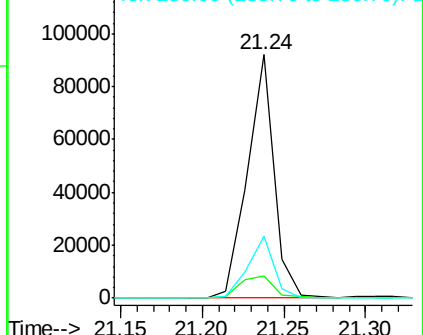
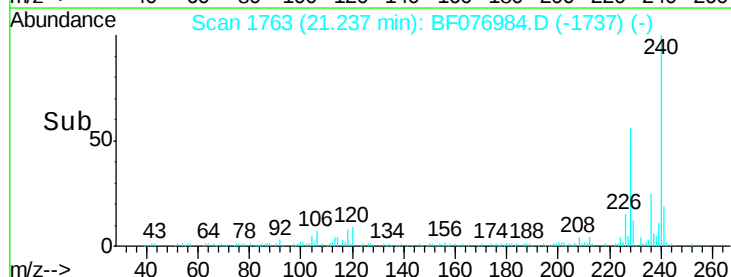
236 25.3 20.2 30.2

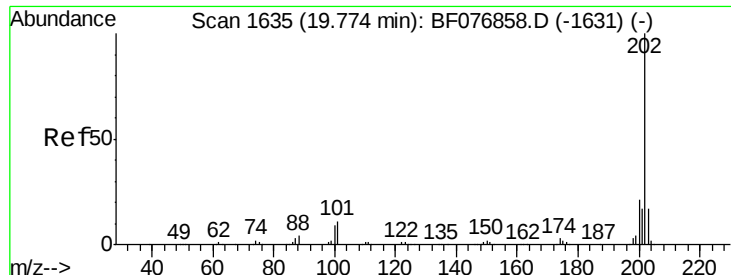


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 75.19 ng

RT: 19.69 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

Instrument :

BNA_F

ClientSampleId :

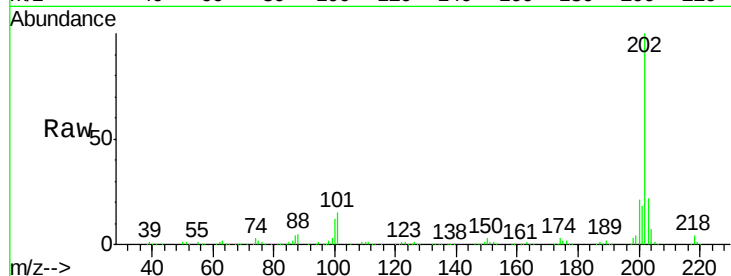
Tot Ion:202 Resp: 536649

Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

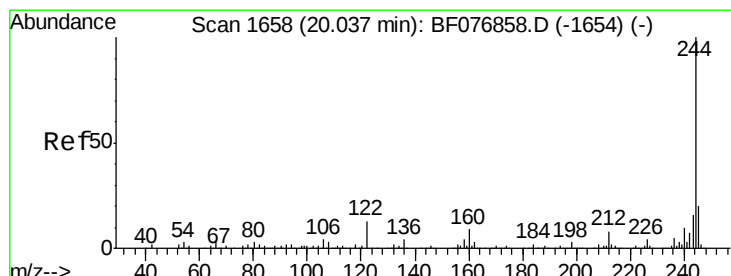
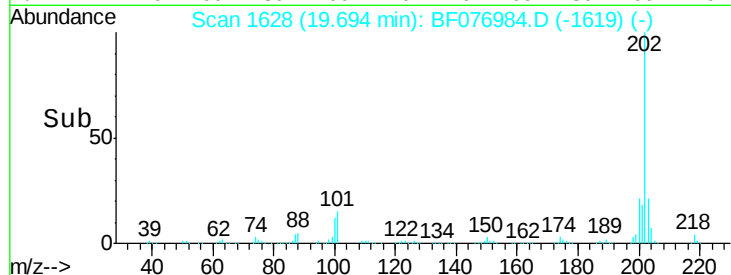
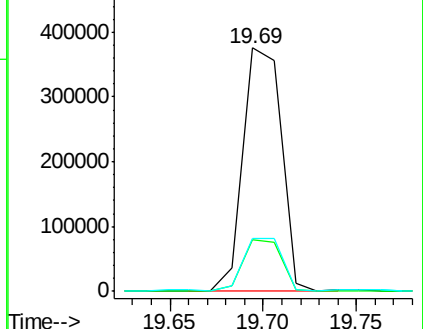
203 21.7 14.0 21.0#



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: 31.39 ng

RT: 19.97 min Scan# 1652

Delta R.T. 0.00 min

Lab File: BF076984.D

Acq: 21 Jan 2015 4:48

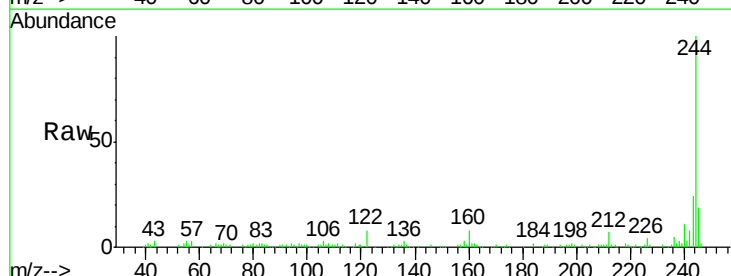
Tgt Ion:244 Resp: 142000

Ion Ratio Lower Upper

244 100

212 7.0 6.3 9.5

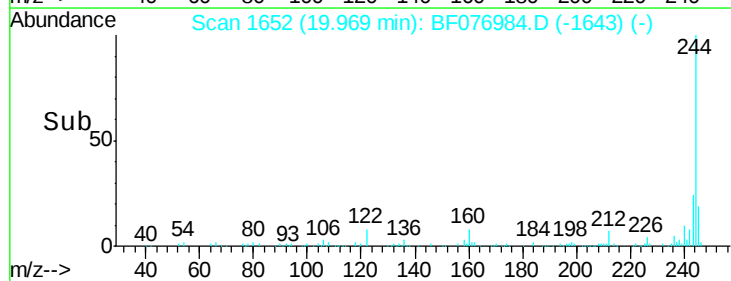
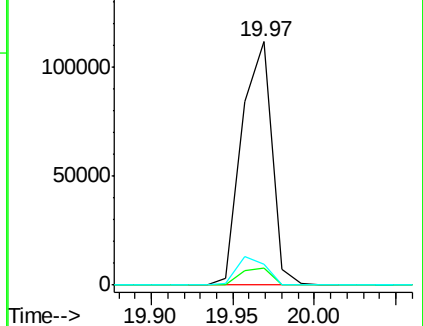
122 8.4 10.1 15.1#

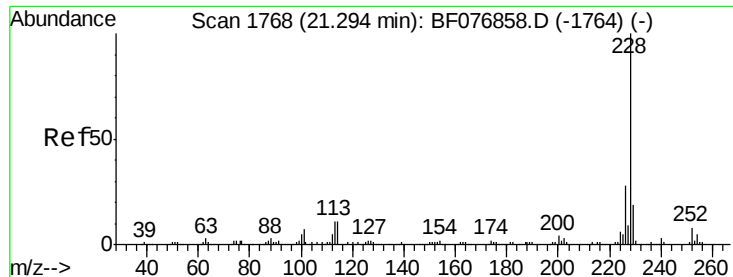


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

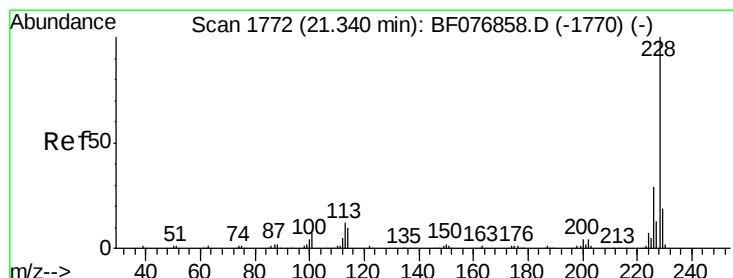
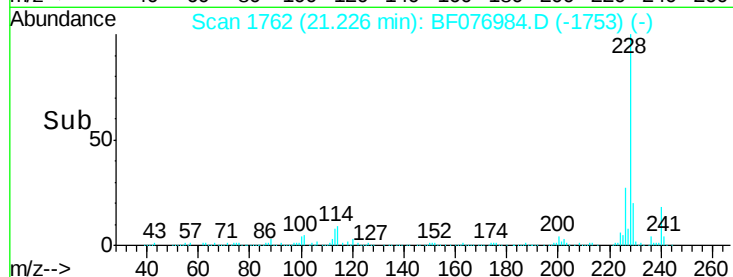
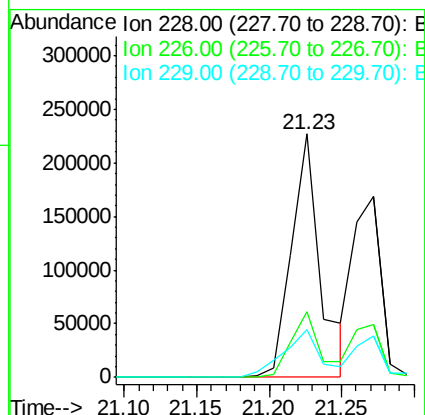
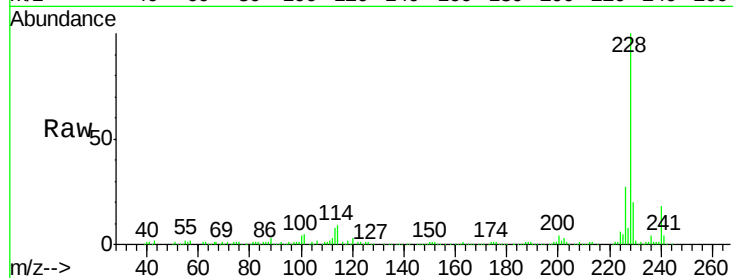




#80
Benzo(a)anthracene
Concen: 47.54 ng
RT: 21.23 min Scan# 1762
Delta R.T. 0.00 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

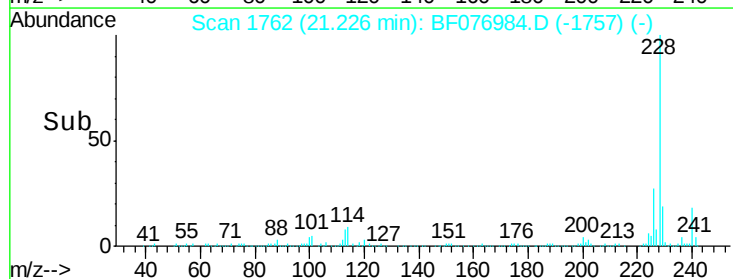
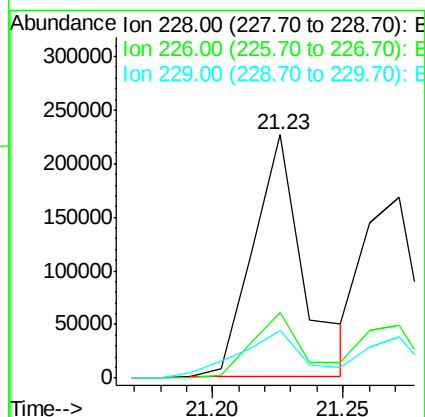
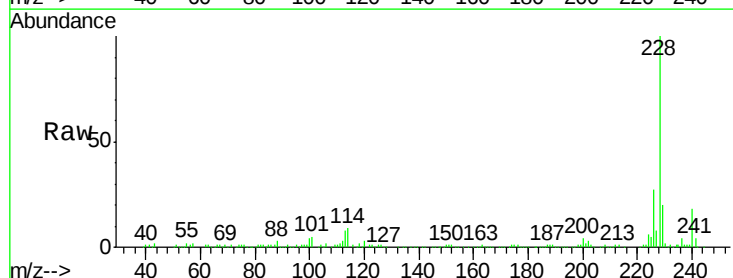
Instrument :
BNA_F
ClientSampleId :

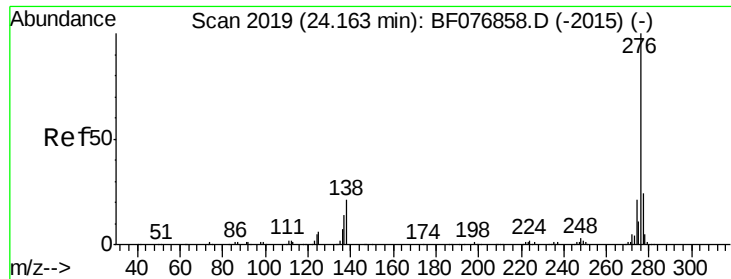
Tot Ion:228 Resp: 310664
Ion Ratio Lower Upper
228 100
226 27.1 22.1 33.1
229 19.7 15.5 23.3



#82
Chrysene
Concen: 51.47 ng
RT: 21.23 min Scan# 1762
Delta R.T. -0.05 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

Tgt Ion:228 Resp: 306726
Ion Ratio Lower Upper
228 100
226 27.1 23.4 35.0
229 19.7 15.4 23.0

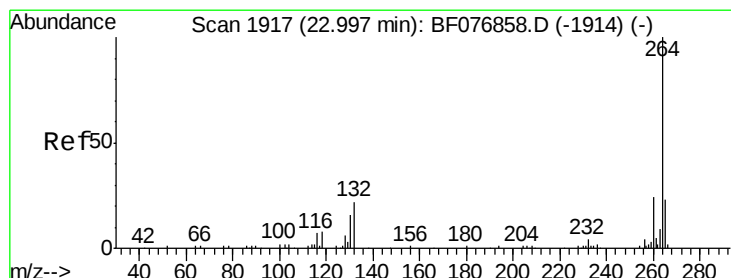
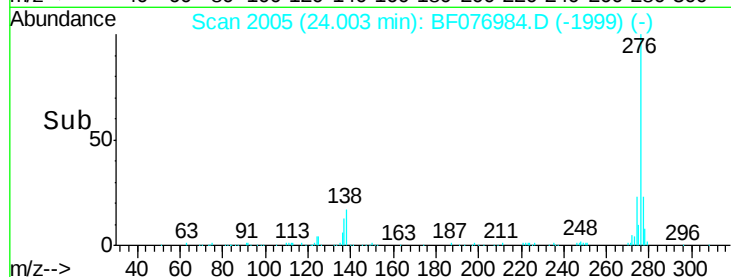
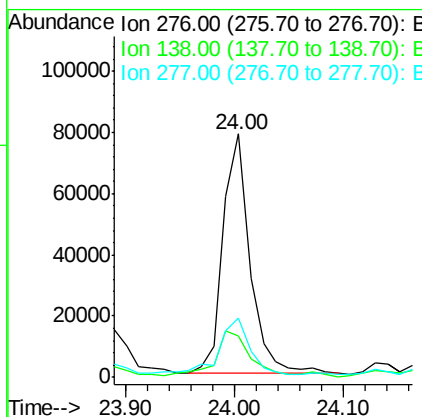
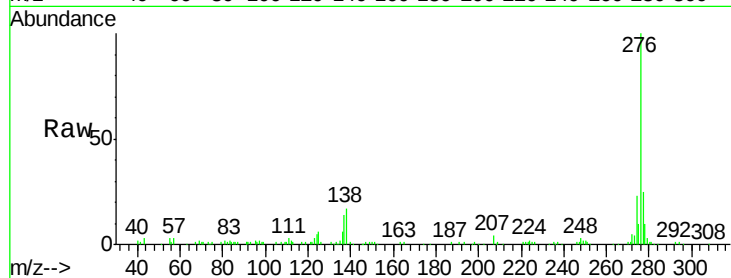




#85
Indeno(1,2,3-cd)pyrene
Concen: 21.48 ng
RT: 24.00 min Scan# 2005
Delta R.T. -0.03 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

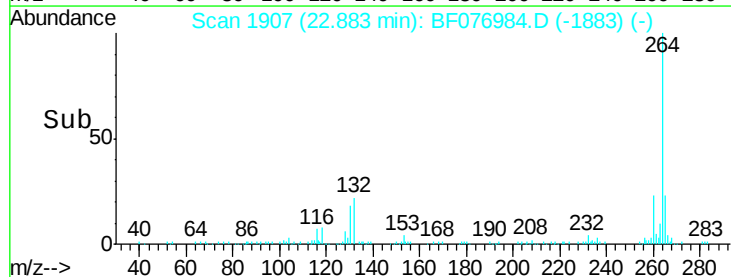
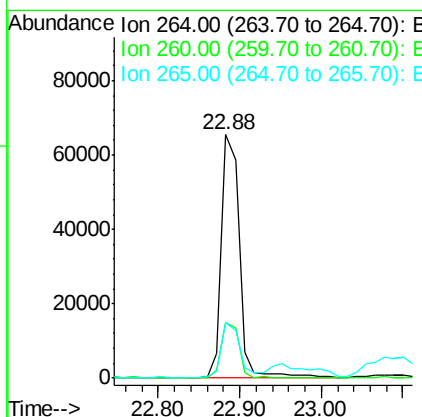
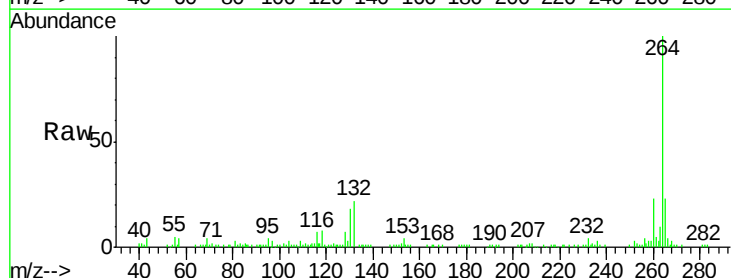
Instrument :
BNA_F
ClientSampleId :

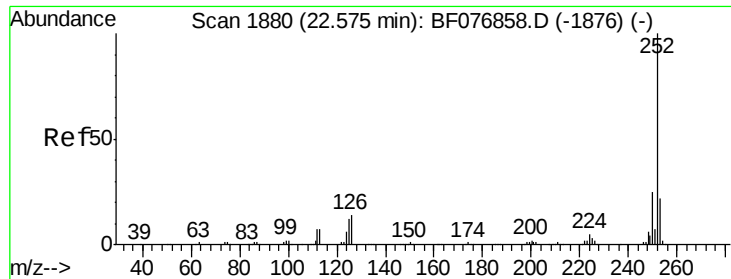
Tot Ion:276 Resp: 135681
Ion Ratio Lower Upper
276 100
138 24.2 14.6 22.0#
277 25.6 14.8 22.2#



#86
Perylene-d12
Concen: 20.00 ng
RT: 22.88 min Scan# 1907
Delta R.T. -0.02 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

Tgt Ion:264 Resp: 100196
Ion Ratio Lower Upper
264 100
260 22.6 19.0 28.4
265 22.7 18.1 27.1

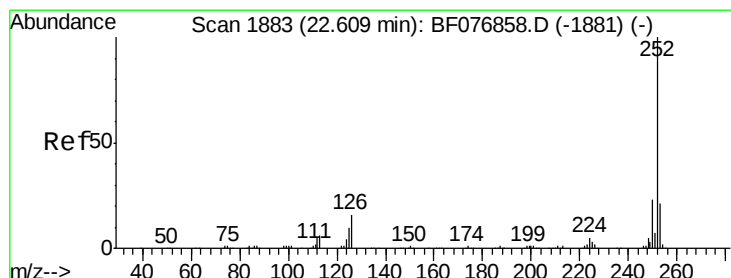
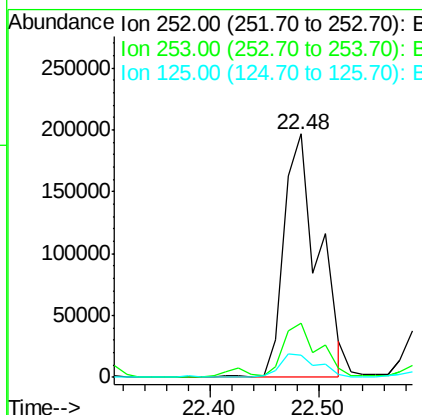
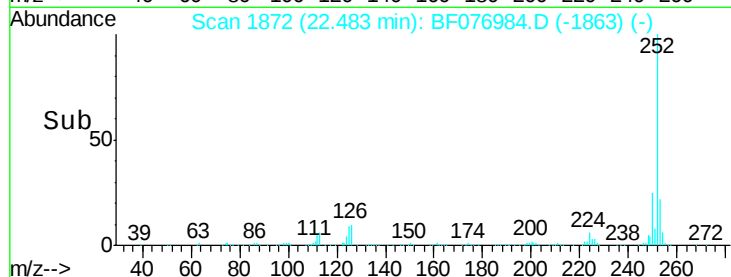
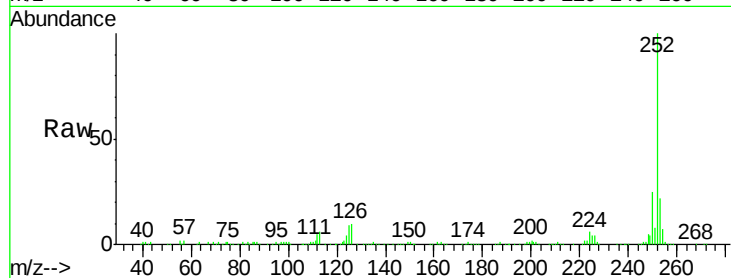




#87
Benzo(b)fluoranthene
Concen: 63.01 ng
RT: 22.48 min Scan# 1872
Delta R.T. 0.00 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

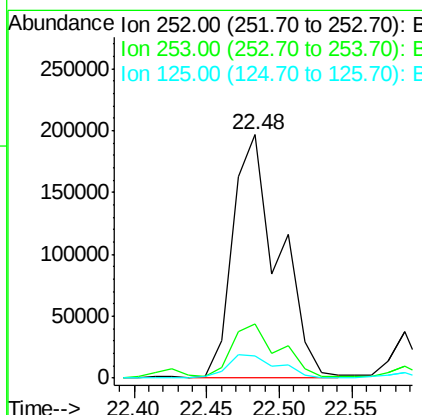
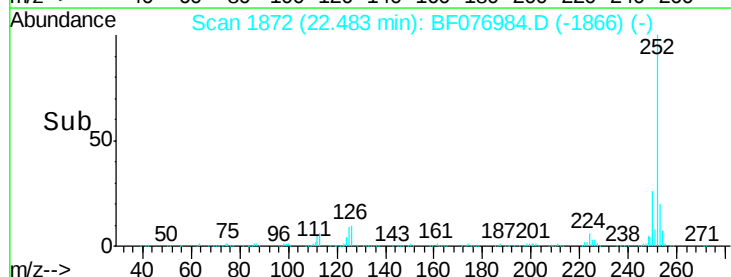
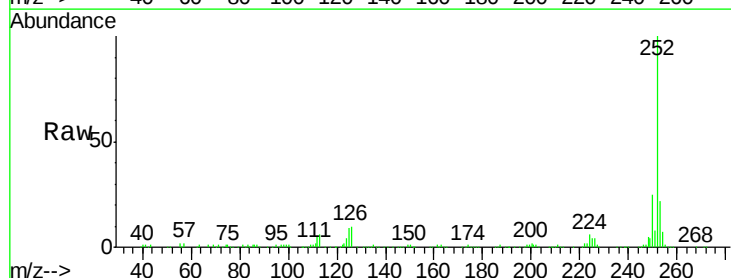
Instrument :
BNA_F
ClientSampleId :

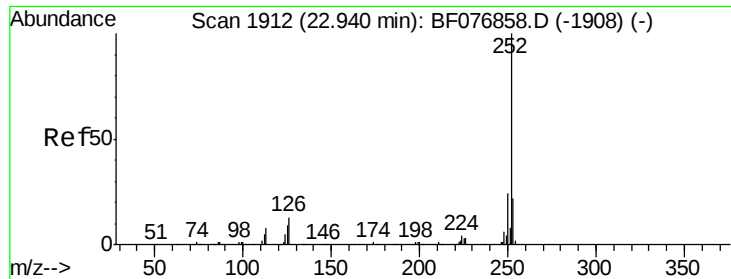
Tot Ion:252 Resp: 425229
Ion Ratio Lower Upper
252 100
253 22.0 17.5 26.3
125 9.3 9.4 14.0#



#88
Benzo(k)fluoranthene
Concen: 72.11 ng
RT: 22.48 min Scan# 1872
Delta R.T. -0.03 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

Tgt Ion:252 Resp: 425137
Ion Ratio Lower Upper
252 100
253 22.0 17.2 25.8
125 9.3 7.1 10.7

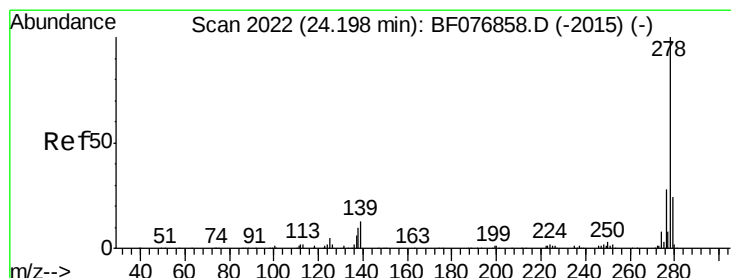
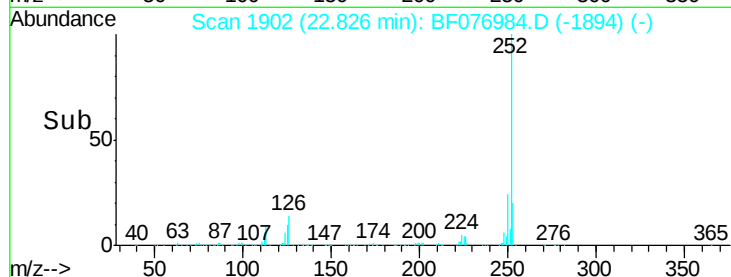
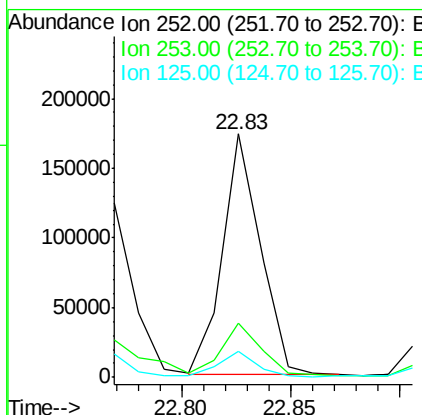
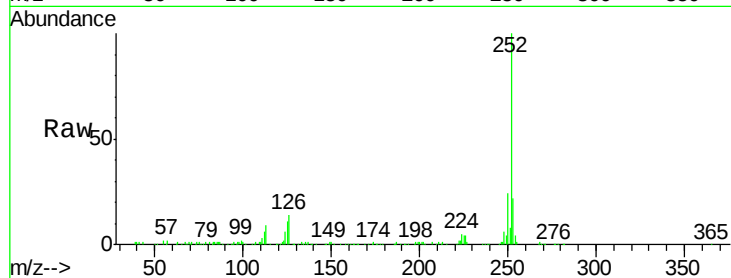




#89
Benzo(a)pyrene
Concen: 34.78 ng
RT: 22.83 min Scan# 1902
Delta R.T. -0.01 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

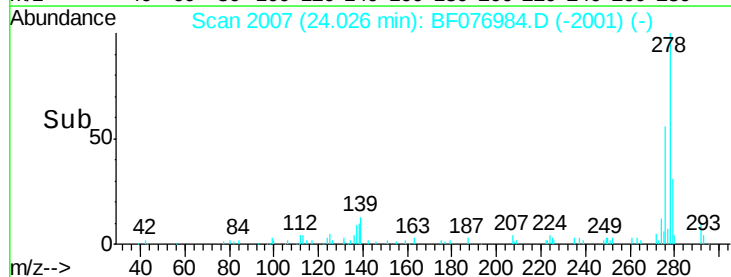
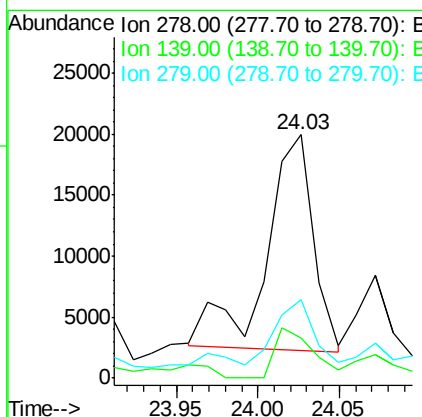
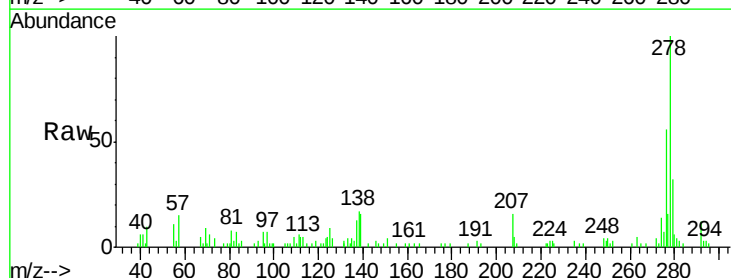
Instrument :
BNA_F
ClientSampleId :

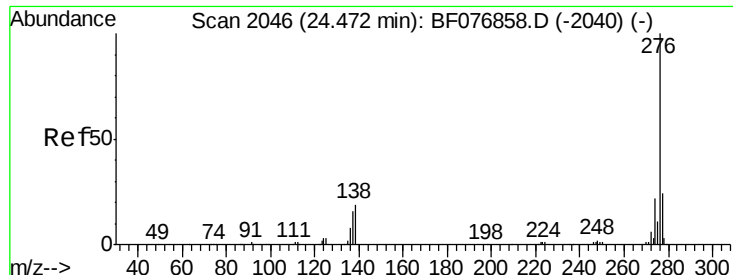
Tot Ion:252 Resp: 207039
Ion Ratio Lower Upper
252 100
253 22.2 17.9 26.9
125 10.7 7.2 10.8



#90
Dibenzo(a,h)anthracene
Concen: 6.55 ng
RT: 24.03 min Scan# 2007
Delta R.T. -0.03 min
Lab File: BF076984.D
Acq: 21 Jan 2015 4:48

Tgt Ion:278 Resp: 35775
Ion Ratio Lower Upper
278 100
139 16.5 10.5 15.7#
279 32.2 19.3 28.9#

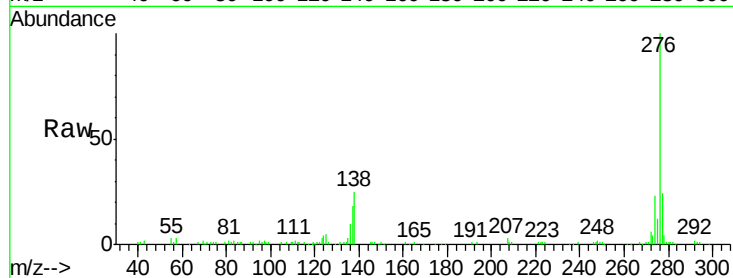




#91
 Benzo(a,h,i)perylene
 Concen: 23.04 ng
 RT: 24.29 min Scan# 2030
 Delta R.T. -0.03 min
 Lab File: BF076984.D
 Acq: 21 Jan 2015 4:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.5	29.3
138	24.6	15.0	22.6



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

