

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF040816\
 Data File : BF086207.D
 Acq On : 9 Apr 2016 9:30
 Operator : UM/SJ
 Sample : H2310-06DL 50X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PEDBR-SB4-0-6.0DL

Quant Time: Apr 11 00:40:47 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	101457	20.00	ng	-0.05
21) Naphthalene-d8	8.01	136	390356	20.00	ng	-0.06
38) Acenaphthene-d10	9.77	164	158514	20.00	ng	-0.05
63) Phenanthrene-d10	11.24	188	259715	20.00	ng	-0.06
75) Chrysene-d12	13.88	240	224368	20.00	ng	-0.05
86) Perylene-d12	15.28	264	178075	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	1879	0.32	ng	0.03
7) Phenol-d6	6.43	99	5052	0.67	ng	0.01
23) Nitrobenzene-d5	7.33	82	2483	0.38	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	374	0.25	ng	-0.03
44) 2-Fluorobiphenyl	9.09	172	5728	0.60	ng	-0.05
78) Terphenyl-d14	12.83	244	3474	0.36	ng	-0.05

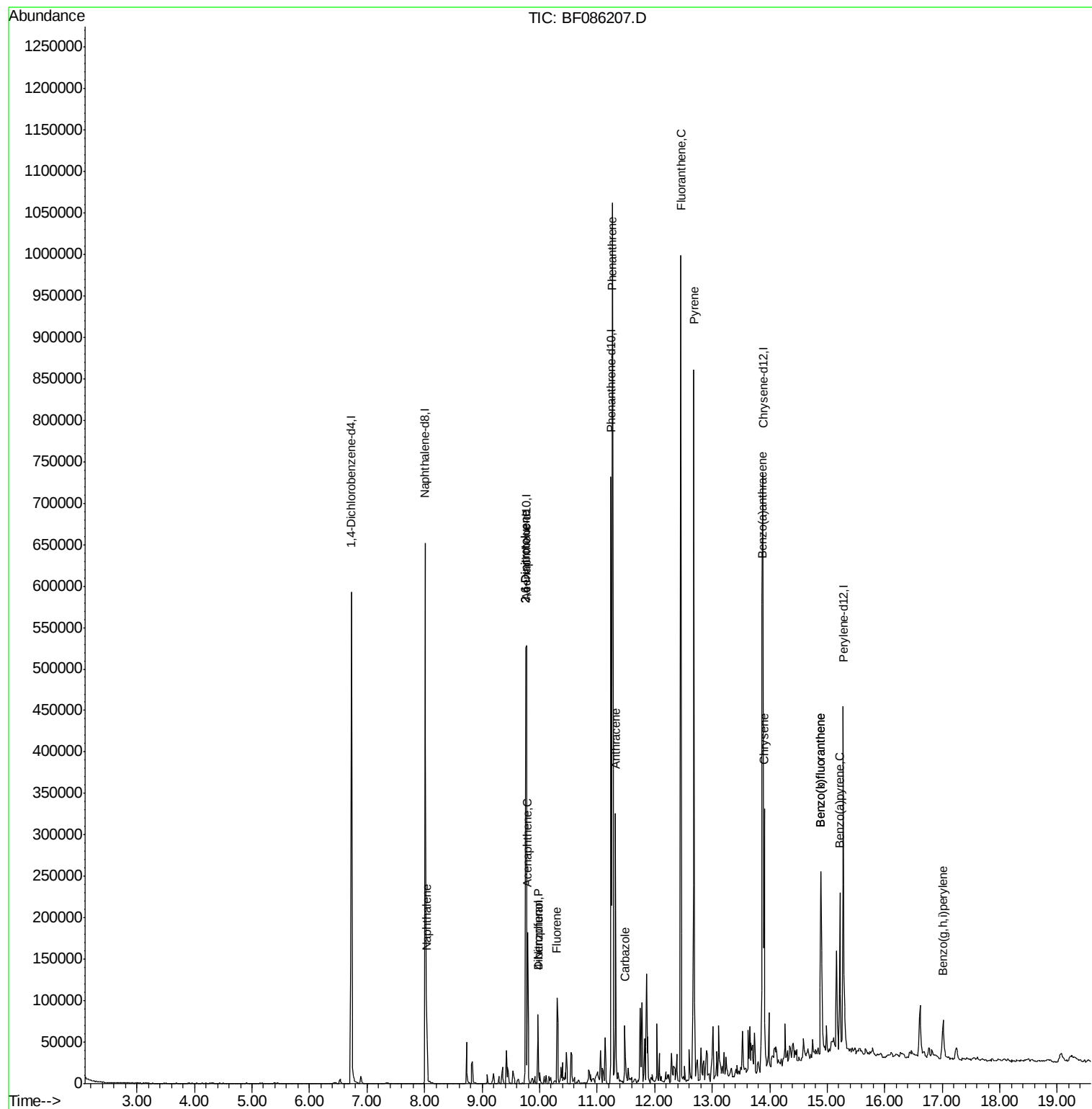
Target Compounds				Qvalue		
31) Naphthalene	8.03	128	50613	2.58	ng	99
50) 2,6-Dinitrotoluene	9.76	165	21480	8.64	ng	# 18
51) Acenaphthene	9.79	154	43866	4.65	ng	99
54) Dibenzofuran	9.97	168	42675	3.42	ng	98
55) 4-Nitrophenol	9.97	139	18163	10.28	ng	# 10
56) 2,4-Dinitrotoluene	9.76	165	21480	6.84	ng	# 36
57) Fluorene	10.30	166	38087	3.58	ng	98
70) Phenanthrene	11.26	178	425602	30.04	ng	99
71) Anthracene	11.32	178	133031	8.96	ng	97
72) Carbazole	11.48	167	30690	2.41	ng	98
74) Fluoranthene	12.45	202	368410	25.00	ng	96
77) Pyrene	12.68	202	330676	20.91	ng	100
80) Benzo(a)anthracene	13.87	228	145935	11.03	ng	99
82) Chrysene	13.91	228	90906	7.14	ng	98
87) Benzo(b)fluoranthene	14.89	252	147512	13.17	ng	99
88) Benzo(k)fluoranthene	14.89	252	147512	14.87	ng	# 97
89) Benzo(a)pyrene	15.22	252	82157	8.28	ng	98
91) Benzo(g,h,i)perylene	17.01	276	38599	4.99	ng	97

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 406

Delta R.T. -0.05 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0DL

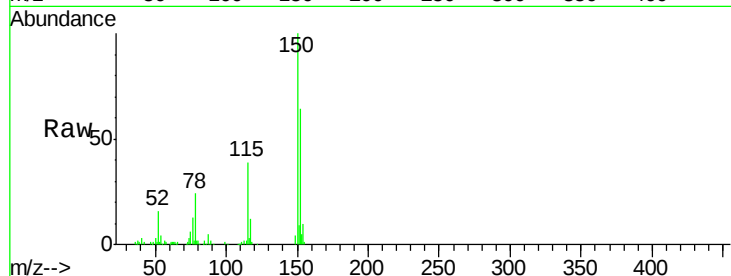
Tgt Ion:152 Resp: 101457

Ion Ratio Lower Upper

152 100

150 155.4 124.2 186.2

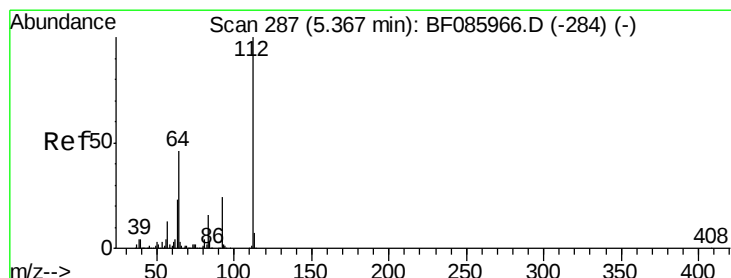
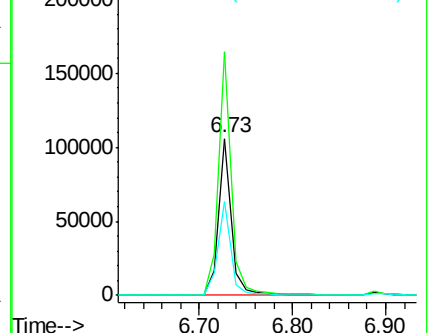
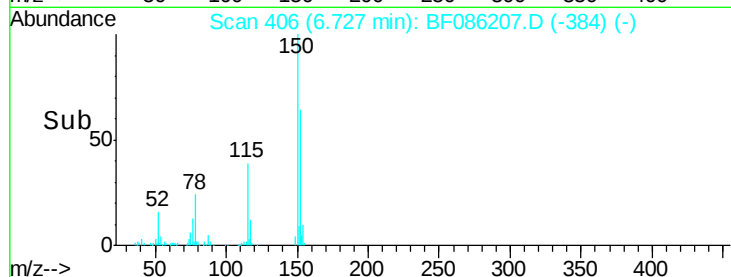
115 59.9 47.0 70.6



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: 0.32 ng

RT: 5.40 min Scan# 290

Delta R.T. 0.03 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

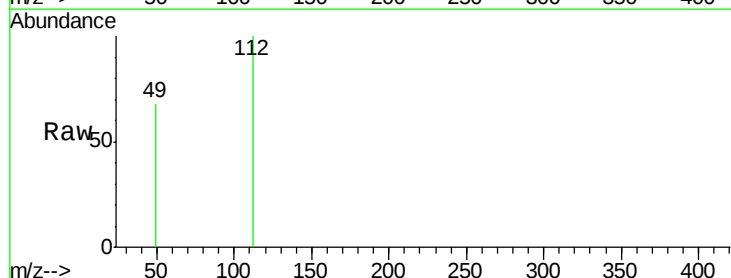
Tgt Ion:112 Resp: 1879

Ion Ratio Lower Upper

112 100

64 0.0 39.9 59.9#

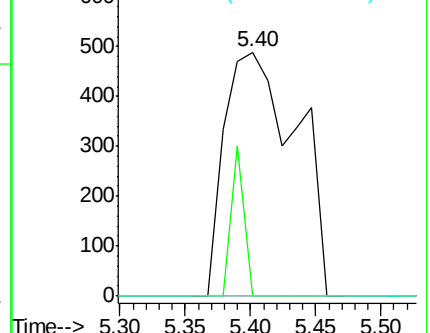
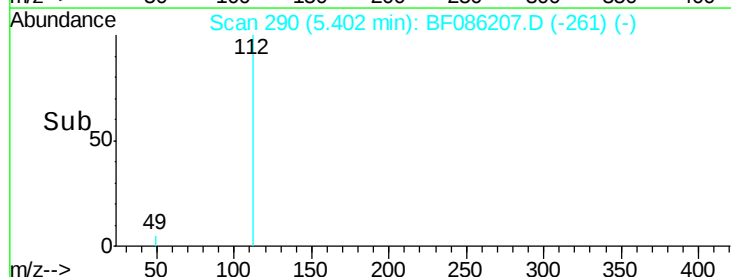
63 0.0 20.2 30.2#



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: 0.67 ng

RT: 6.43 min Scan# 380

Delta R.T. 0.01 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0DL

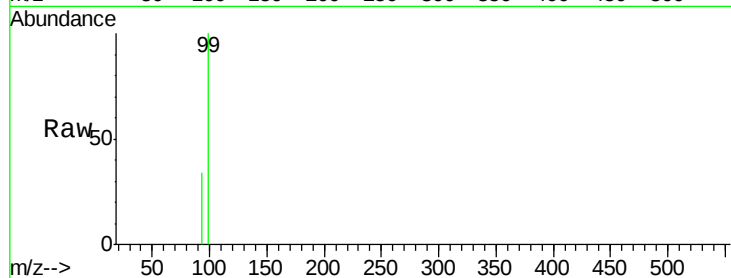
Tgt Ion: 99 Resp: 5052

Ion Ratio Lower Upper

99 100

42 0.0 11.1 16.7#

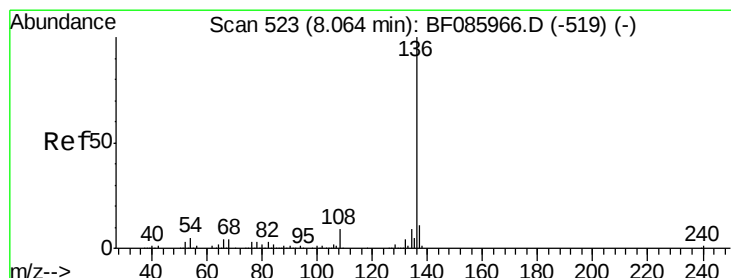
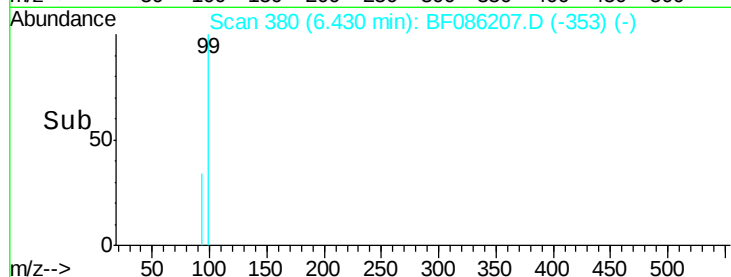
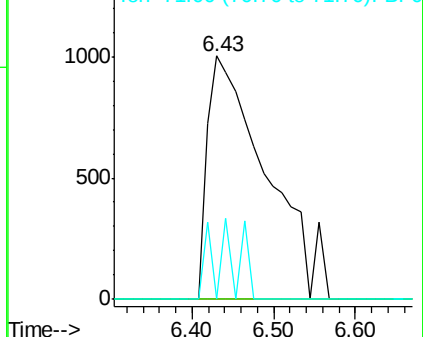
71 0.0 24.9 37.3#



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.01 min Scan# 518

Delta R.T. -0.06 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Tgt Ion: 136 Resp: 390356

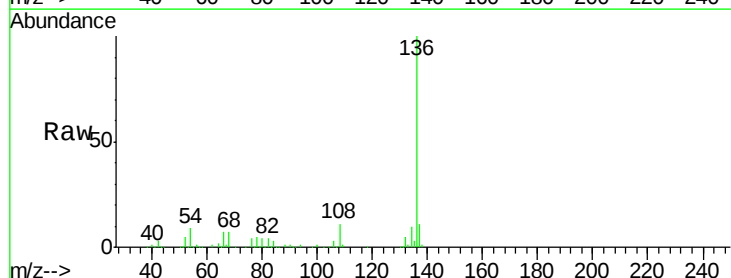
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 9.2 7.4 11.0

68 6.9 5.8 8.8

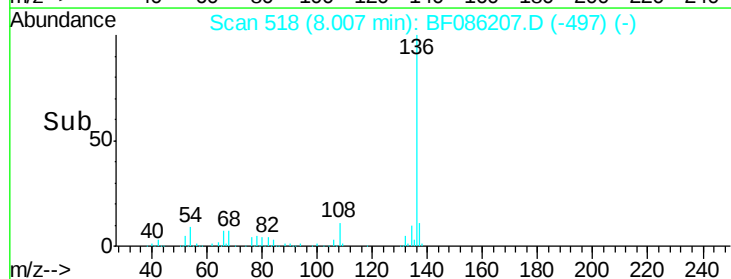
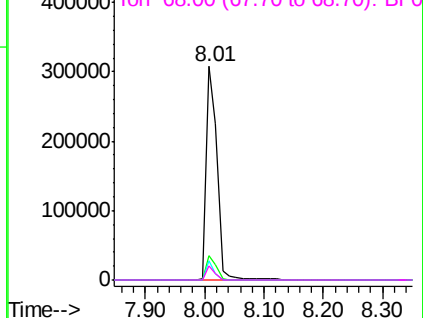


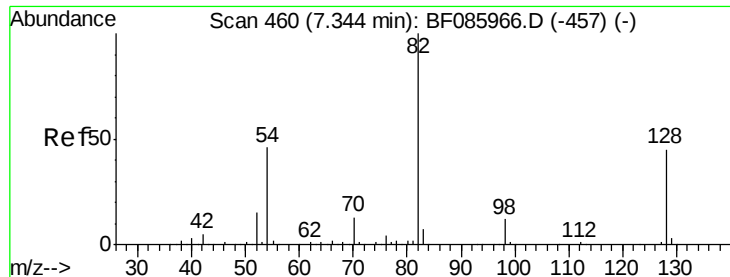
Abundance Ion 136.00 (135.70 to 136.70): E

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

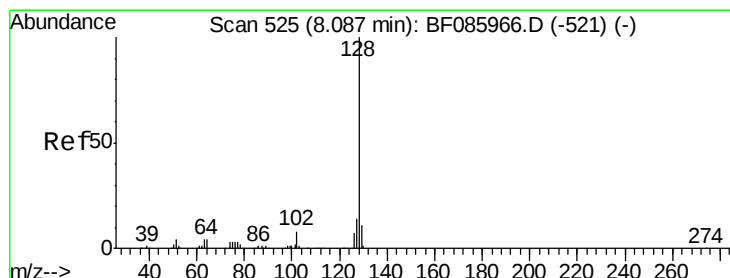
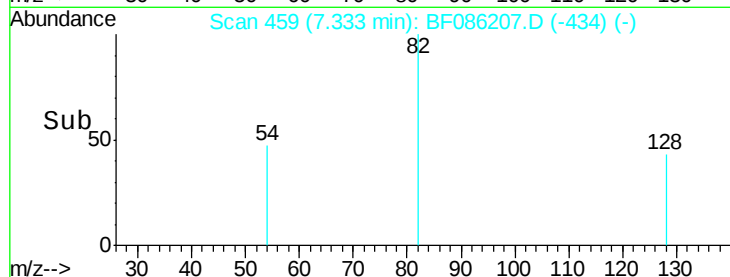
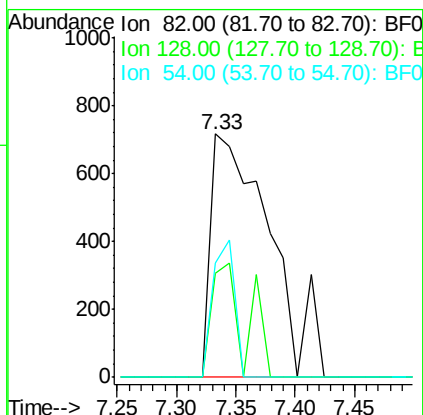
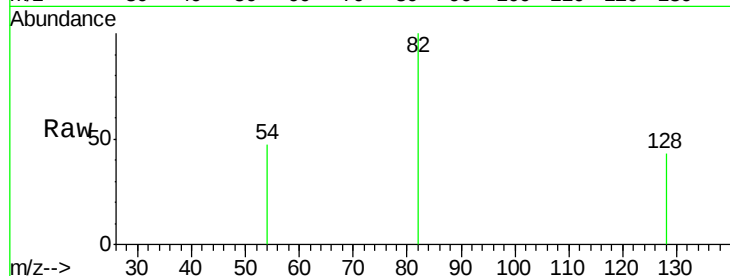




#23
 Nitrobenzene-d5
 Concen: 0.38 ng
 RT: 7.33 min Scan# 459
 Delta R.T. -0.01 min
 Lab File: BF086207.D
 Acq: 9 Apr 2016 9:30

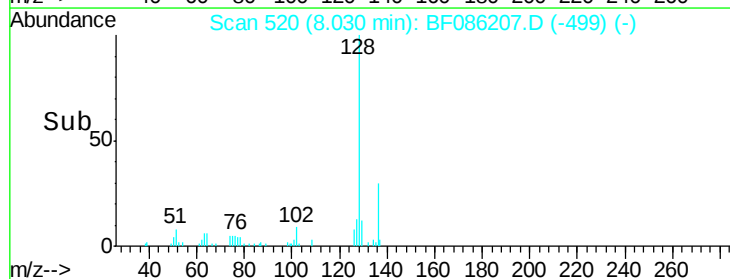
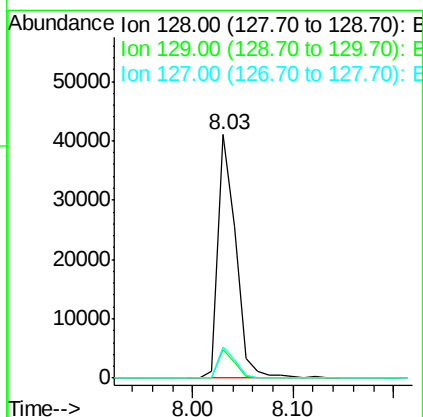
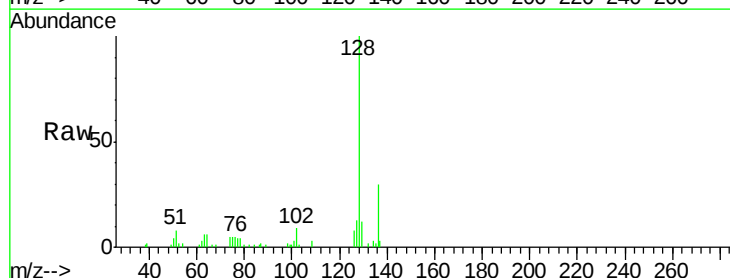
Instrument :
 BNA_F
 ClientSampleId :
 PEDBR-SB4-0-6.0DL

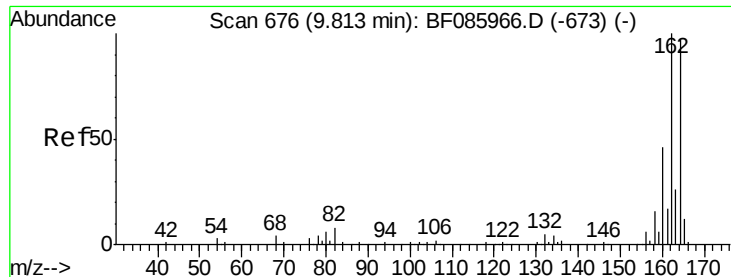
Tgt Ion: 82 Resp: 2483
 Ion Ratio Lower Upper
 82 100
 128 42.8 41.8 62.8
 54 46.9 33.4 50.0



#31
 Naphthalene
 Concen: 2.58 ng
 RT: 8.03 min Scan# 520
 Delta R.T. -0.06 min
 Lab File: BF086207.D
 Acq: 9 Apr 2016 9:30

Tgt Ion: 128 Resp: 50613
 Ion Ratio Lower Upper
 128 100
 129 11.5 9.4 14.0
 127 12.8 11.0 16.6





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.05 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0DL

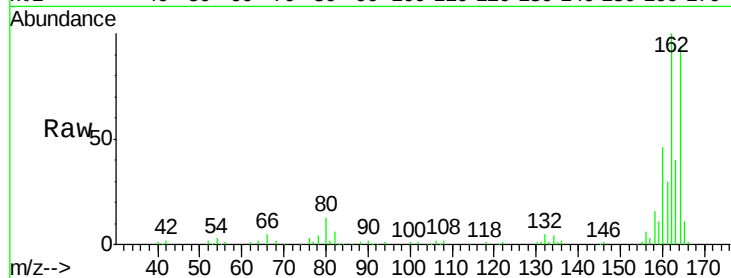
Tgt Ion:164 Resp: 158514

Ion Ratio Lower Upper

164 100

162 106.8 82.1 123.1

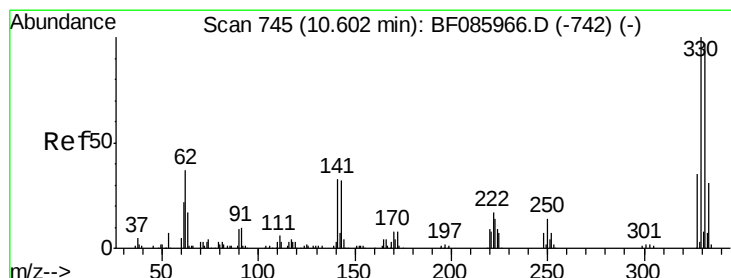
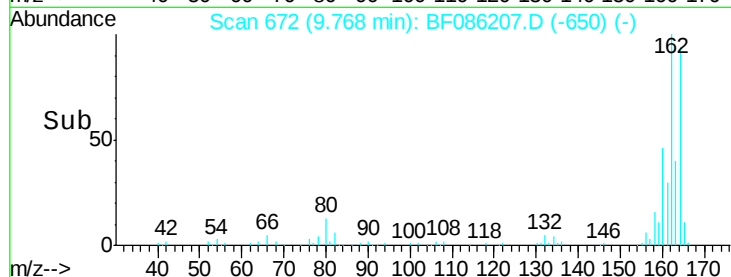
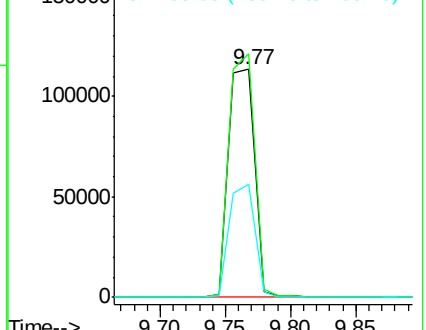
160 49.6 37.4 56.2



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: 0.25 ng

RT: 10.57 min Scan# 742

Delta R.T. -0.03 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

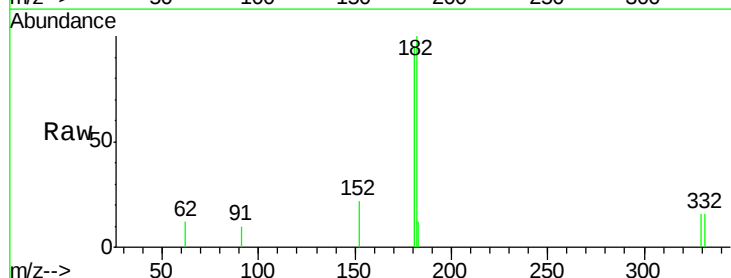
Tgt Ion:330 Resp: 374

Ion Ratio Lower Upper

330 100

332 100.0 78.2 117.2

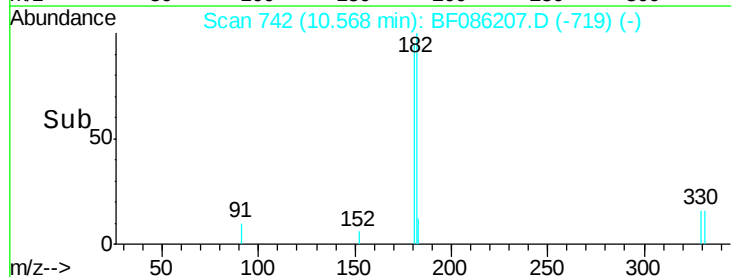
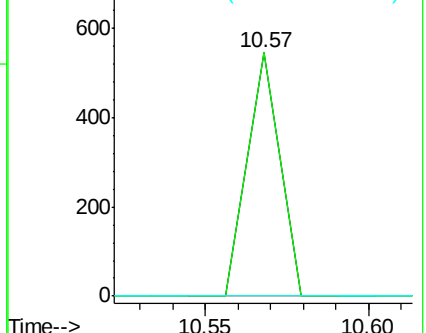
141 0.0 31.5 47.3#

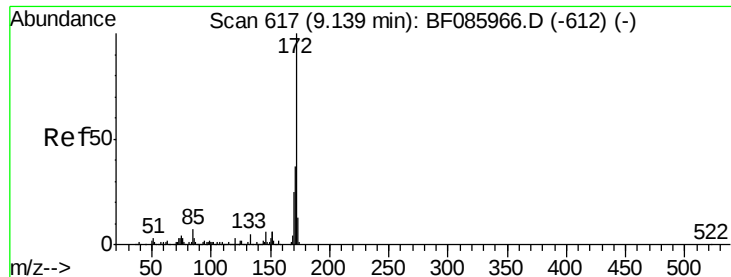


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 0.60 ng

RT: 9.09 min Scan# 613

Delta R.T. -0.05 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Instrument :

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ClientSampleId :

PEDBR-SB4-0-6.0DL

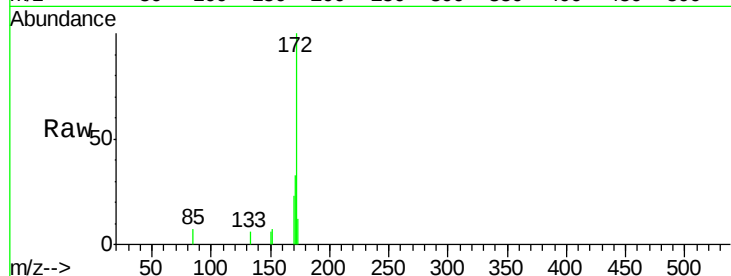
Tgt Ion:172 Resp: 5728

Ion Ratio Lower Upper

172 100

171 33.1 29.4 44.2

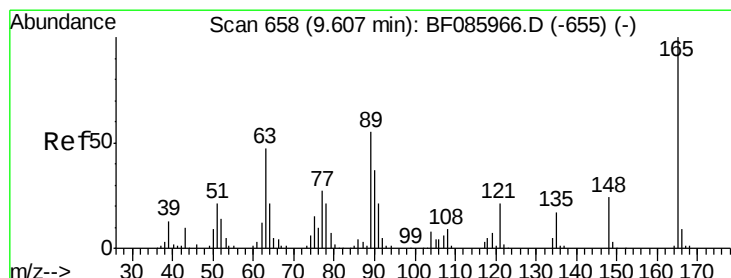
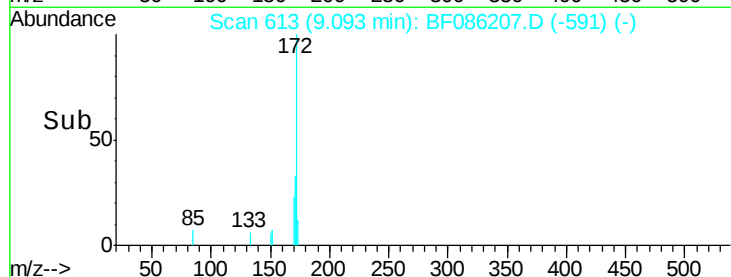
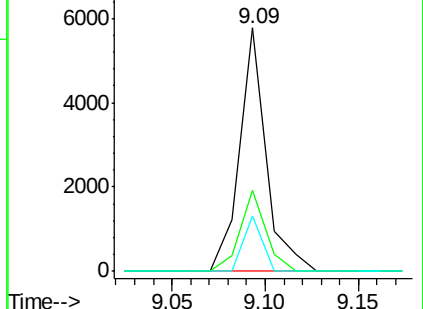
170 22.7 19.8 29.6



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



#50

2,6-Dinitrotoluene

Concen: 8.64 ng

RT: 9.76 min Scan# 671

Delta R.T. 0.15 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

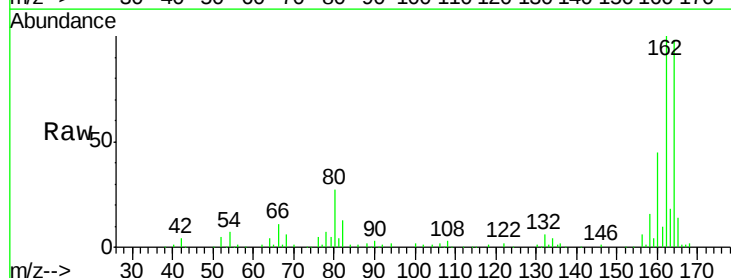
Tgt Ion:165 Resp: 21480

Ion Ratio Lower Upper

165 100

63 0.0 51.8 77.8#

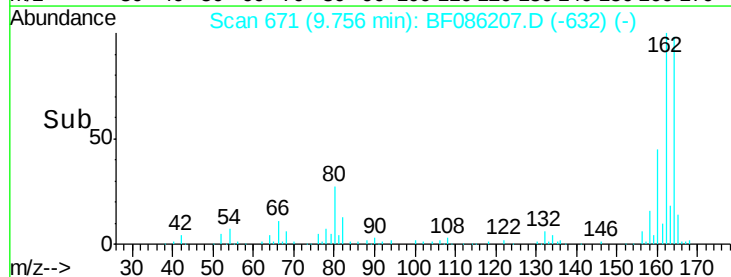
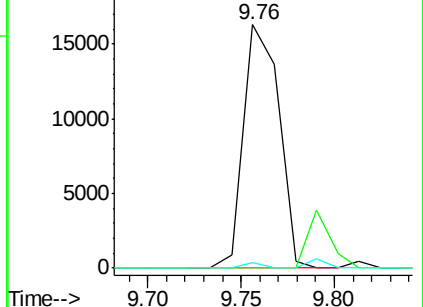
89 2.0 53.7 80.5#

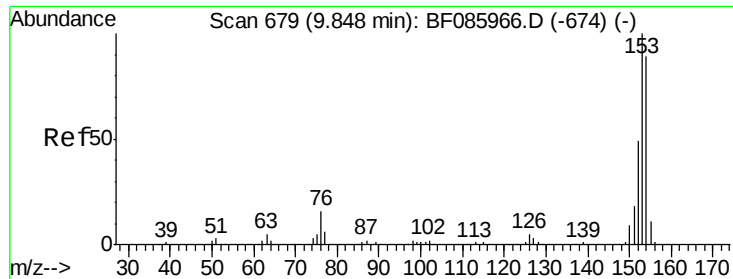


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 4.65 ng

RT: 9.79 min Scan# 674

Delta R.T. -0.06 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Instrument :

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PEDBR-SB4-0-6.0DL

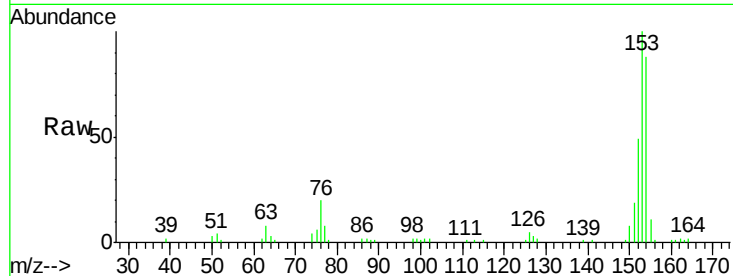
Tgt Ion:154 Resp: 43866

Ion Ratio Lower Upper

154 100

153 113.6 90.1 135.1

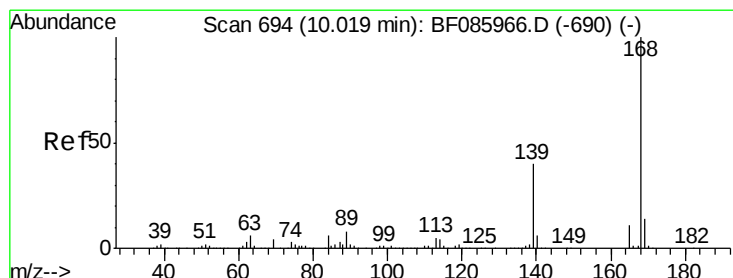
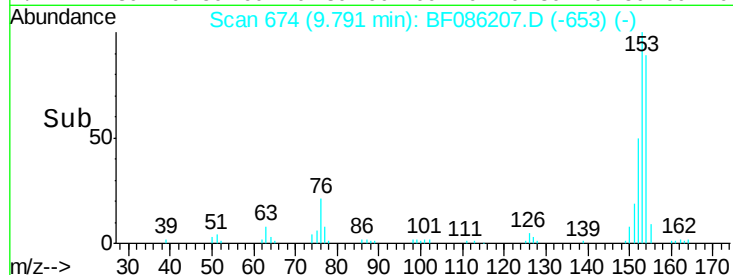
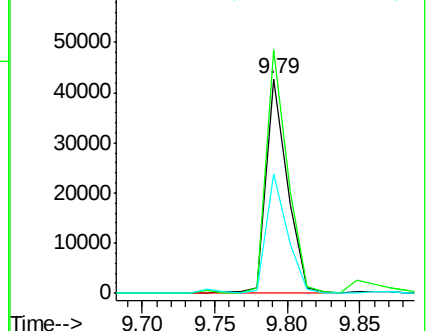
152 55.8 44.2 66.2



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: 3.42 ng

RT: 9.97 min Scan# 690

Delta R.T. -0.05 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

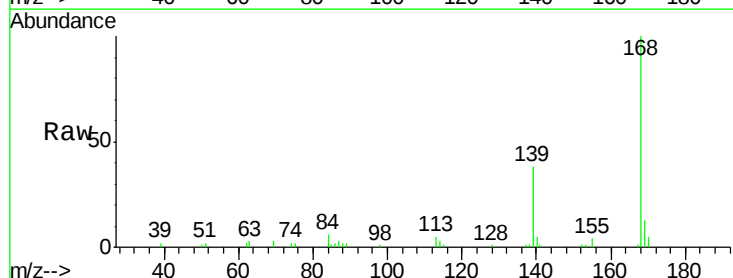
Tgt Ion:168 Resp: 42675

Ion Ratio Lower Upper

168 100

139 38.2 31.9 47.9

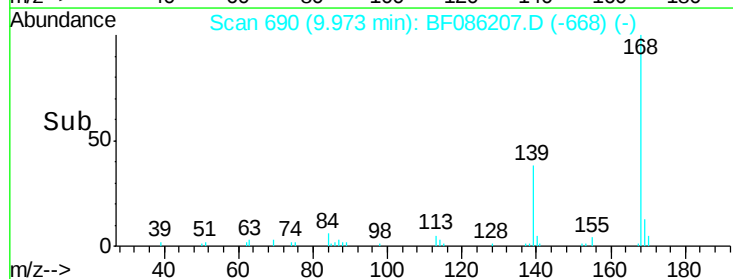
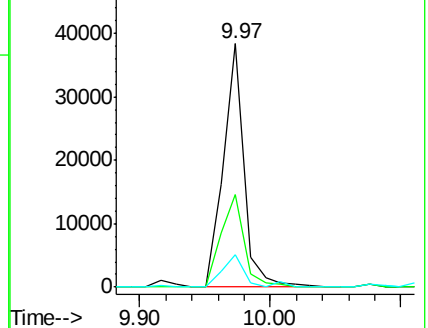
169 13.5 11.0 16.6

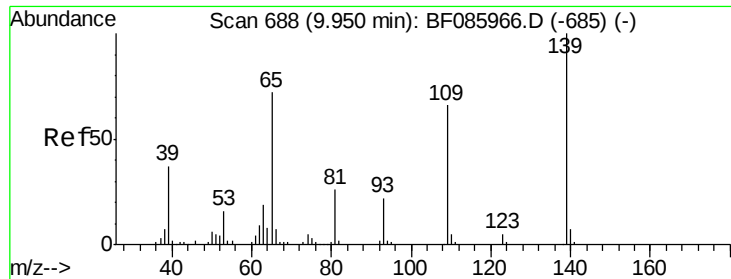


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 10.28 ng

RT: 9.97 min Scan# 690

Delta R.T. 0.02 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

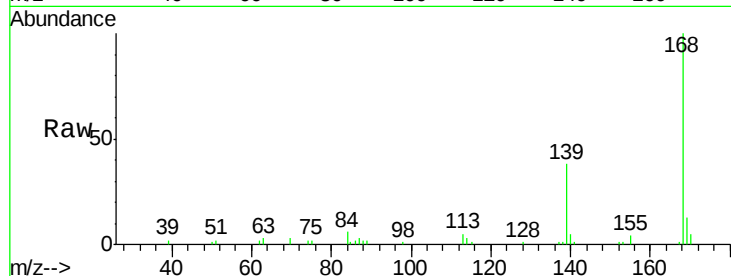
Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0DL

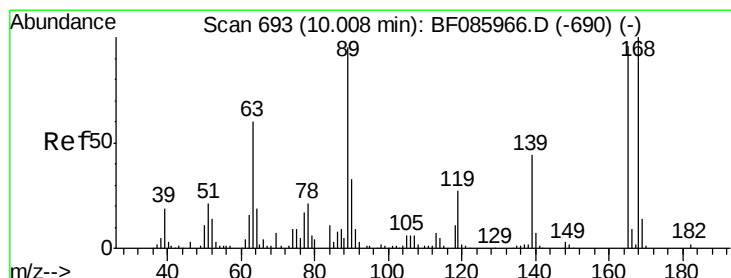
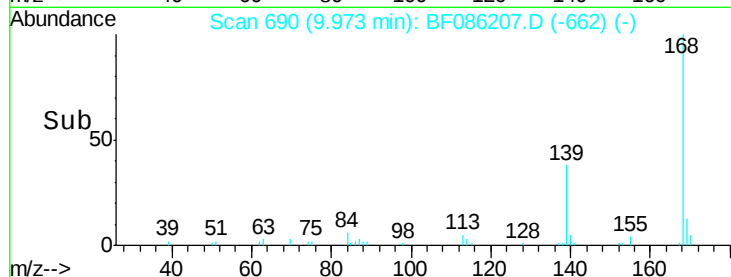
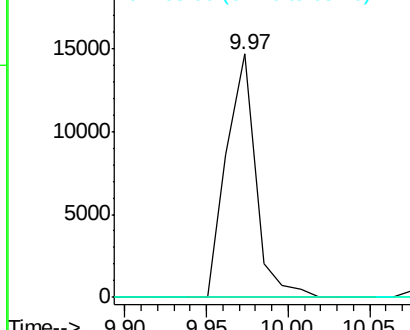
Tgt Ion:	139	Resp:	18163
Ion	Ratio	Lower	Upper
139	100		
109	0.0	49.2	89.2#
65	0.0	66.9	106.9#



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



#56

2,4-Dinitrotoluene

Concen: 6.84 ng

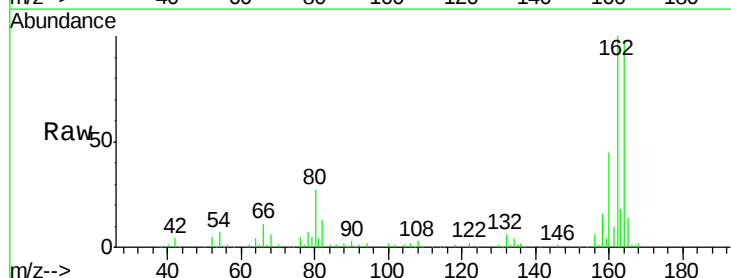
RT: 9.76 min Scan# 671

Delta R.T. -0.25 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Tgt Ion:	165	Resp:	21480
Ion	Ratio	Lower	Upper
165	100		
63	0.0	24.9	37.3#
89	2.0	41.0	61.6#
182	0.0	2.1	3.1#

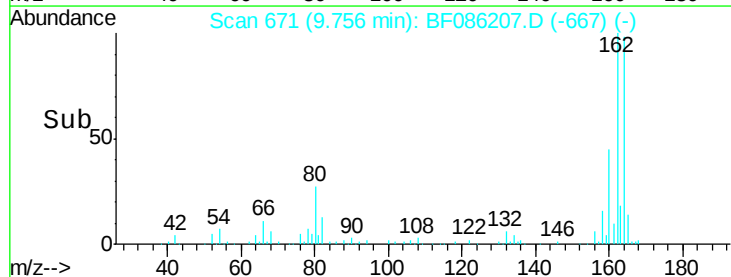
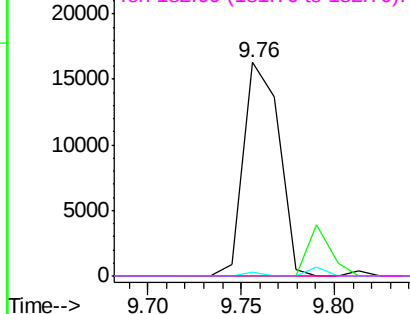


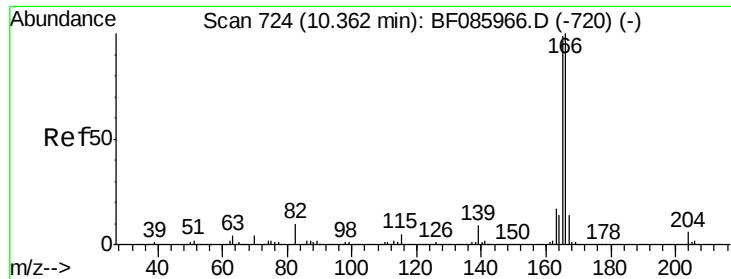
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

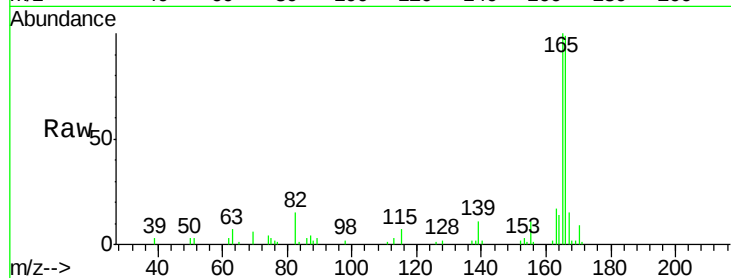




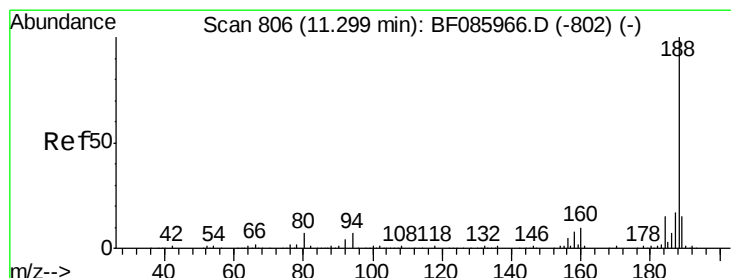
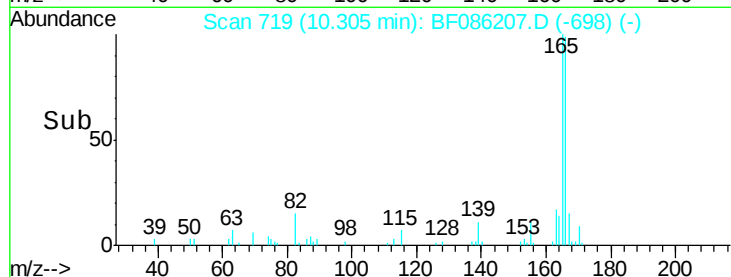
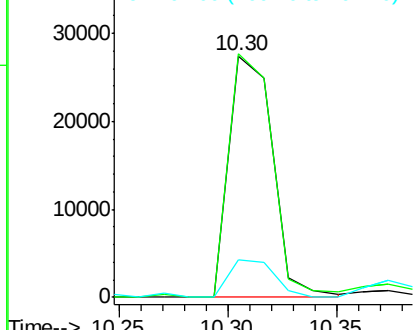
#57
Fluorene
 Concen: 3.58 ng
 RT: 10.30 min Scan# 719
 Delta R.T. -0.06 min
 Lab File: BF086207.D
 Acq: 9 Apr 2016 9:30

Instrument :
 BNA_F
 ClientSampleId :
 PEDBR-SB4-0-6.0DL

Tgt Ion:166 Resp: 38087
 Ion Ratio Lower Upper
 166 100
 165 100.9 79.4 119.0
 167 15.5 11.0 16.4

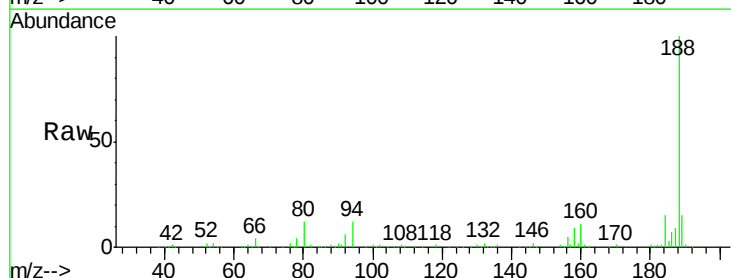


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

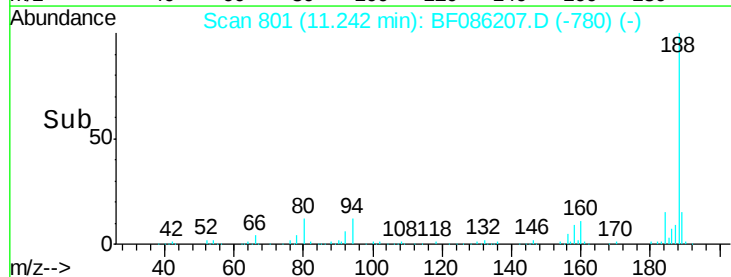
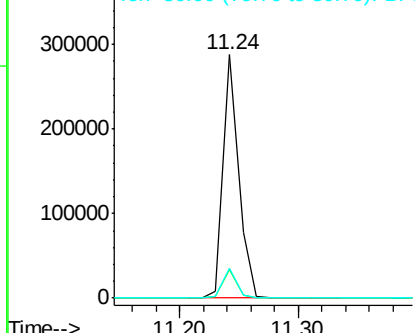


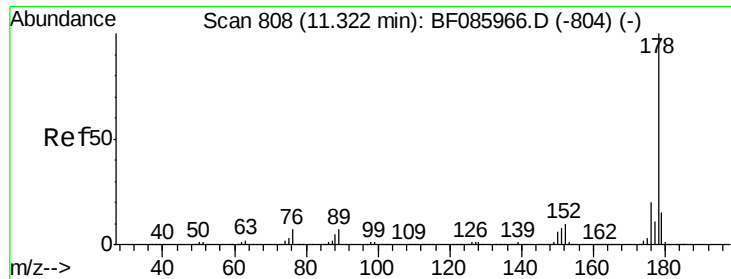
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.24 min Scan# 801
 Delta R.T. -0.06 min
 Lab File: BF086207.D
 Acq: 9 Apr 2016 9:30

Tgt Ion:188 Resp: 259715
 Ion Ratio Lower Upper
 188 100
 94 11.5 5.4 8.0#
 80 12.2 5.5 8.3#



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

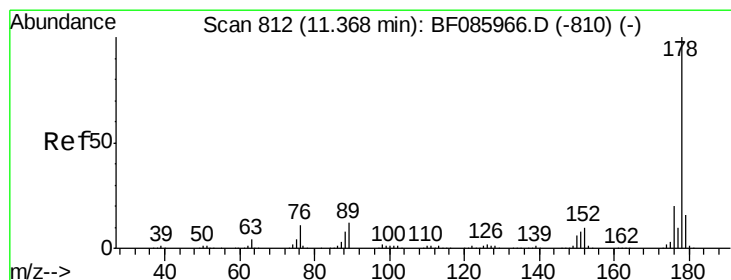
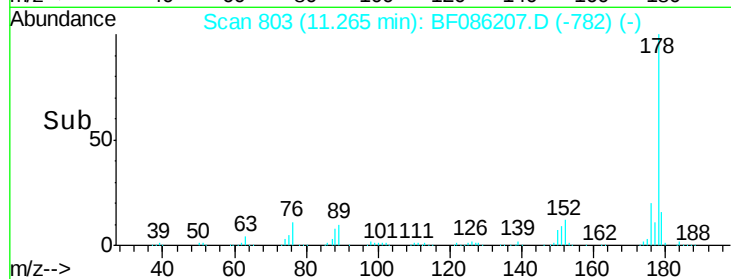
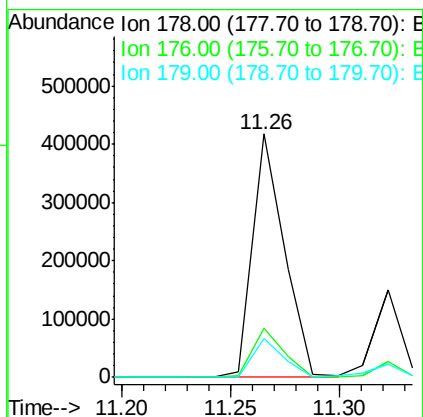
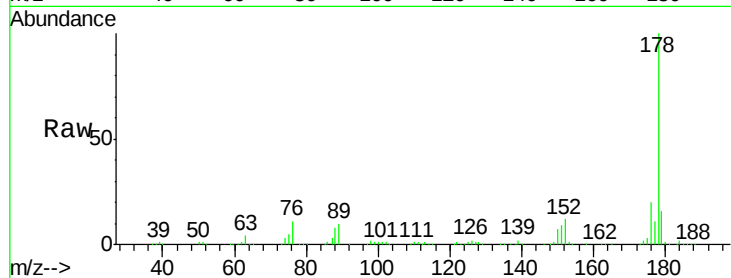




#70
Phenanthrene
Concen: 30.04 ng
RT: 11.26 min Scan# 803
Delta R.T. -0.06 min
Lab File: BF086207.D
Acq: 9 Apr 2016 9:30

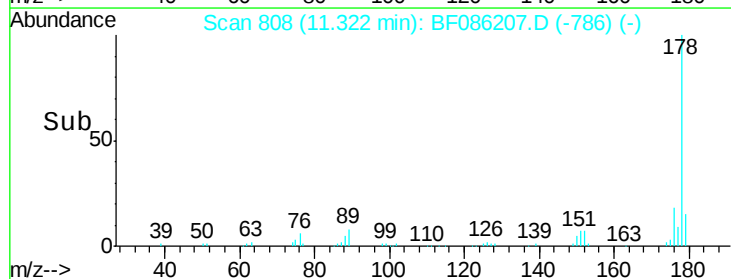
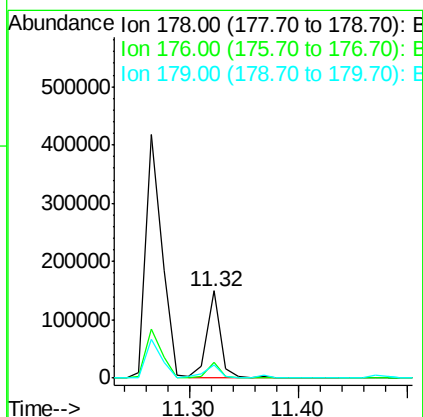
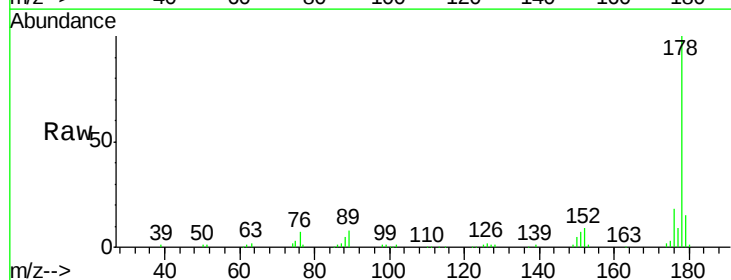
Instrument :
BNA_F
ClientSampleId :
PEDBR-SB4-0-6.0DL

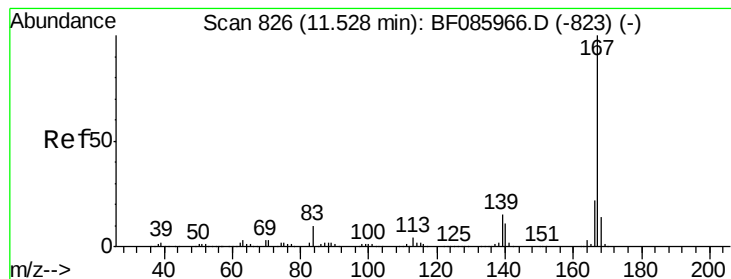
Tgt Ion:178 Resp: 425602
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 16.0 12.6 18.8



#71
Anthracene
Concen: 8.96 ng
RT: 11.32 min Scan# 808
Delta R.T. -0.05 min
Lab File: BF086207.D
Acq: 9 Apr 2016 9:30

Tgt Ion:178 Resp: 133031
Ion Ratio Lower Upper
178 100
176 18.4 15.9 23.9
179 15.3 13.0 19.4





#72

Carbazole

Concen: 2.41 ng

RT: 11.48 min Scan# 822

Delta R.T. -0.05 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0DL

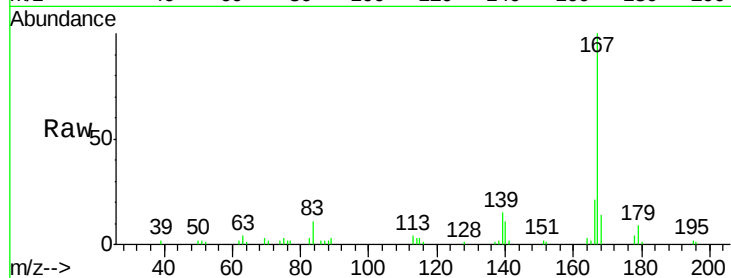
Tgt Ion:167 Resp: 30690

Ion Ratio Lower Upper

167 100

166 21.1 17.8 26.8

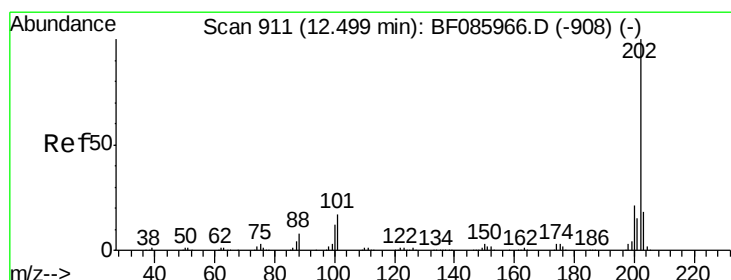
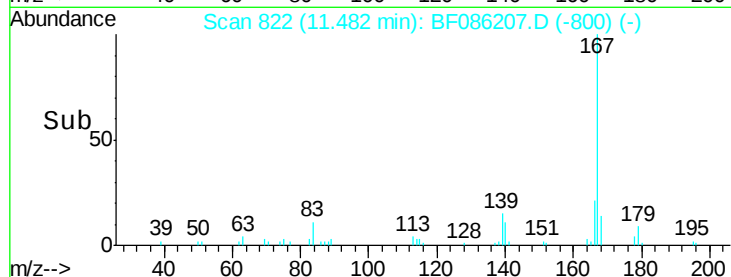
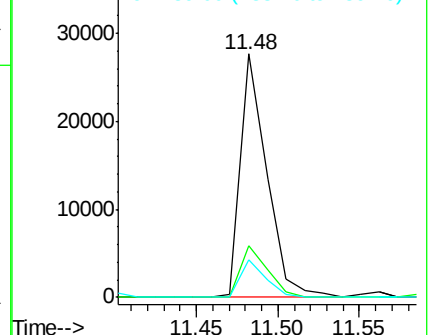
139 15.3 11.6 17.4



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: 25.00 ng

RT: 12.45 min Scan# 907

Delta R.T. -0.05 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

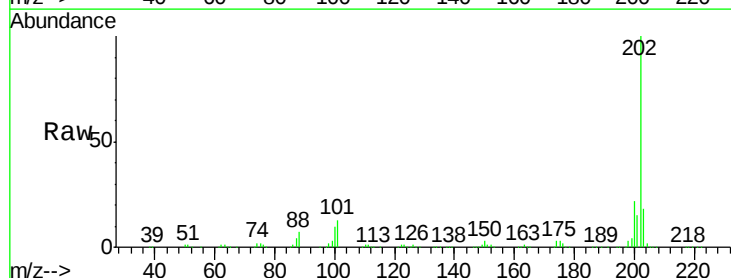
Tgt Ion:202 Resp: 368410

Ion Ratio Lower Upper

202 100

101 13.4 0.0 36.6

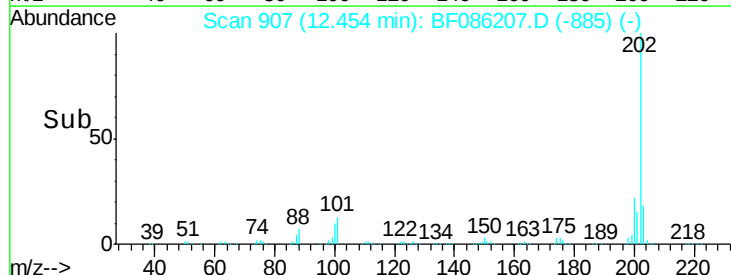
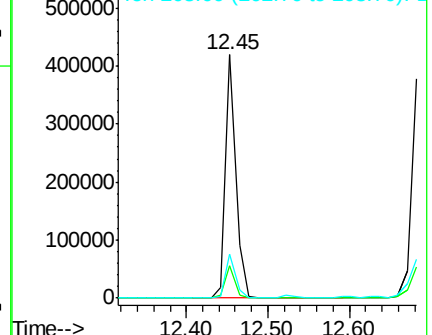
203 17.8 0.0 38.1

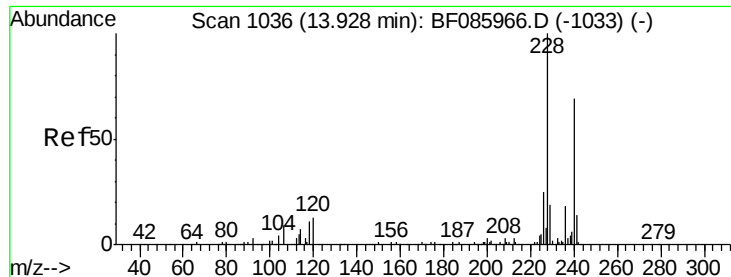


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

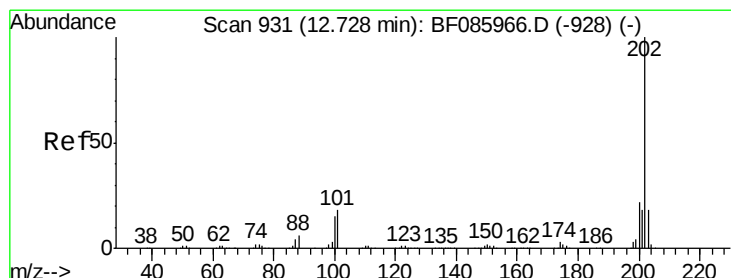
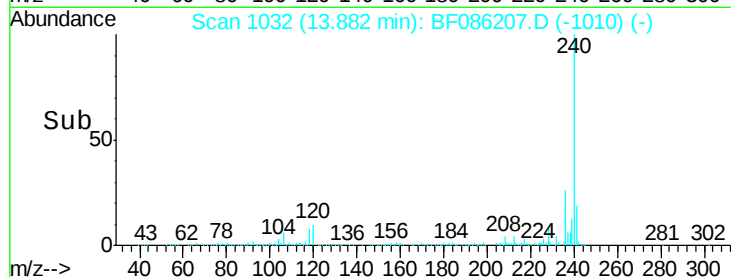
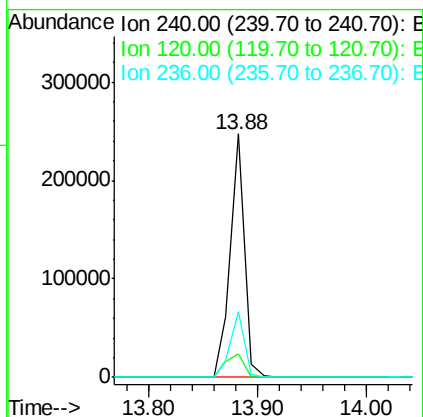
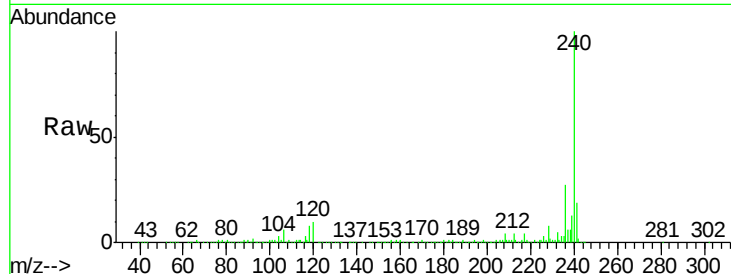




#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.88 min Scan# 1032
Delta R.T. -0.05 min
Lab File: BF086207.D
Acq: 9 Apr 2016 9:30

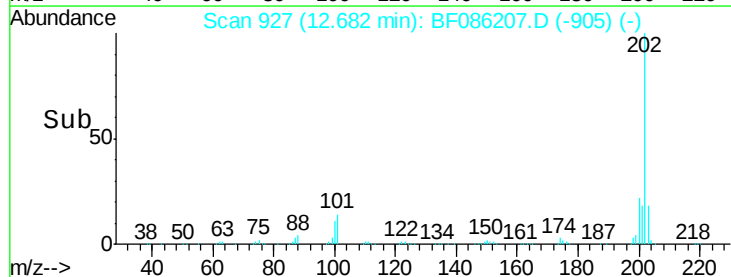
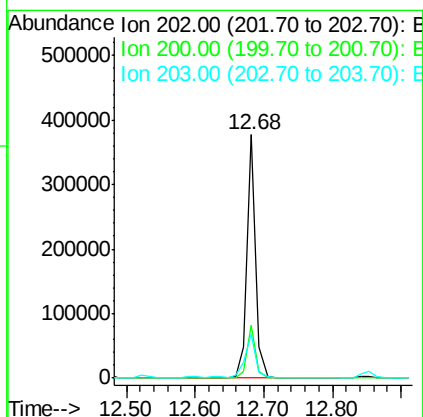
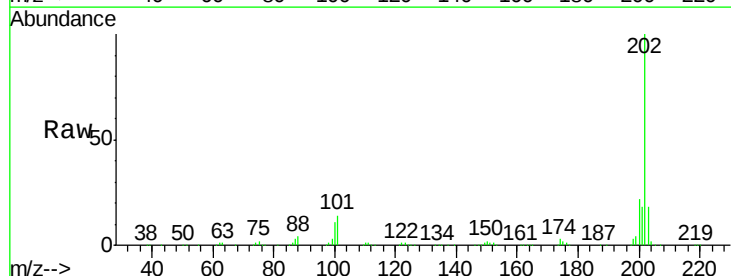
Instrument :
BNA_F
ClientSampleId :
PEDBR-SB4-0-6.0DL

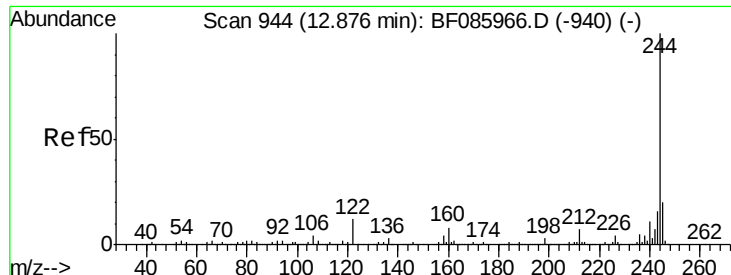
Tgt Ion:240 Resp: 224368
Ion Ratio Lower Upper
240 100
120 9.8 13.8 20.8#
236 26.8 20.6 30.8



#77
Pyrene
Concen: 20.91 ng
RT: 12.68 min Scan# 927
Delta R.T. -0.05 min
Lab File: BF086207.D
Acq: 9 Apr 2016 9:30

Tgt Ion:202 Resp: 330676
Ion Ratio Lower Upper
202 100
200 21.9 17.6 26.4
203 17.8 14.0 21.0





#78

Terphenyl-d14

Concen: 0.36 ng

RT: 12.83 min Scan# 940

Delta R.T. -0.05 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0DL

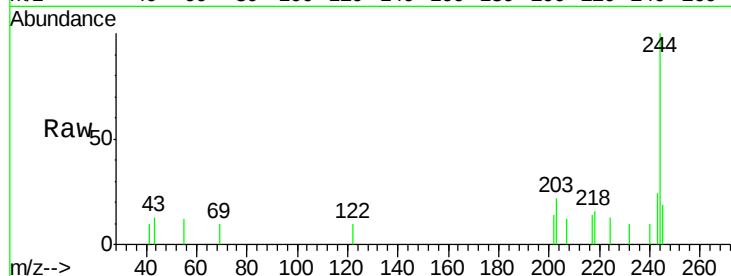
Tgt Ion:244 Resp: 3474

Ion Ratio Lower Upper

244 100

212 0.0 6.1 9.1#

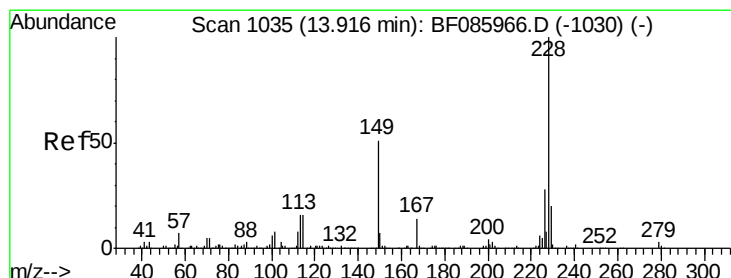
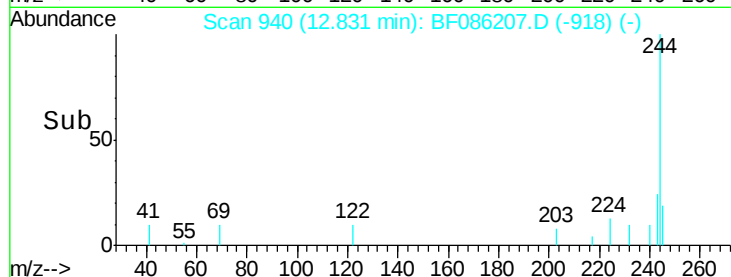
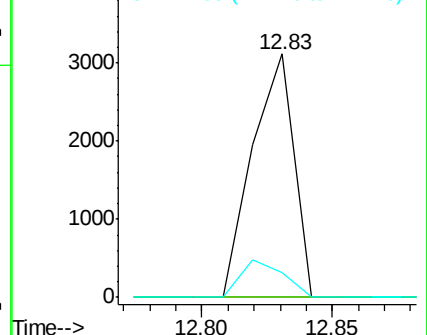
122 10.1 10.2 15.4#



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: 11.03 ng

RT: 13.87 min Scan# 1031

Delta R.T. -0.05 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

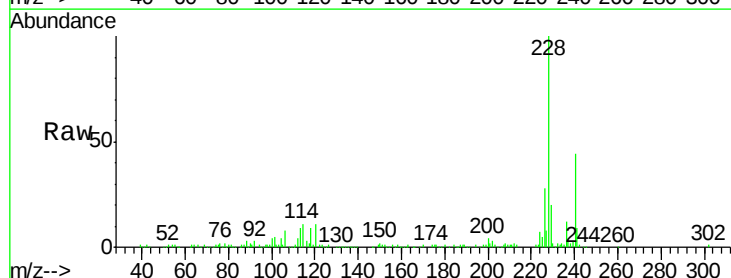
Tgt Ion:228 Resp: 145935

Ion Ratio Lower Upper

228 100

226 28.4 22.1 33.1

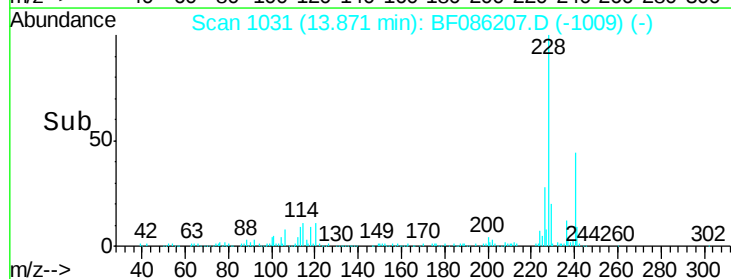
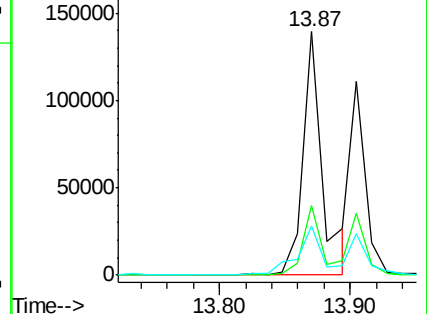
229 20.3 16.2 24.4

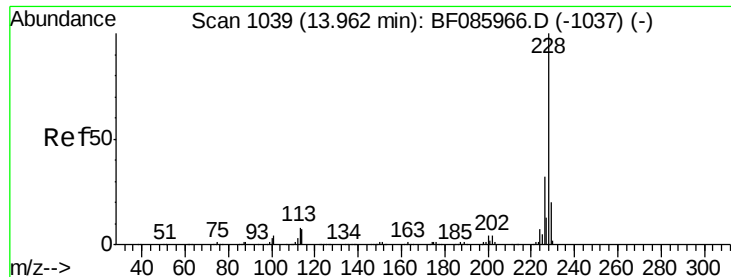


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.14 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.06 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0DL

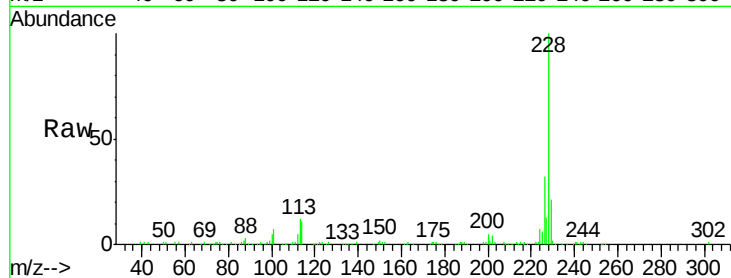
Tgt Ion:228 Resp: 90906

Ion Ratio Lower Upper

228 100

226 31.7 25.0 37.6

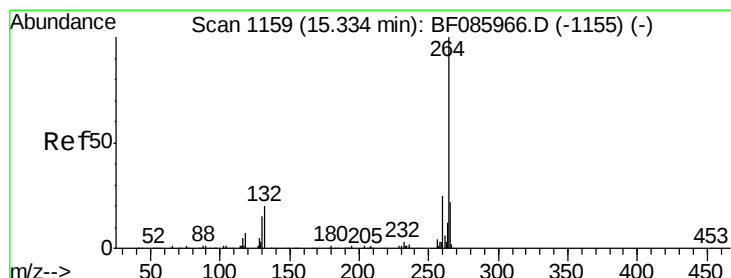
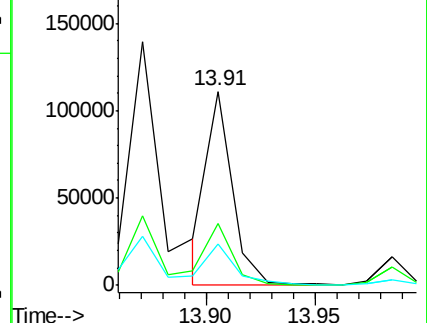
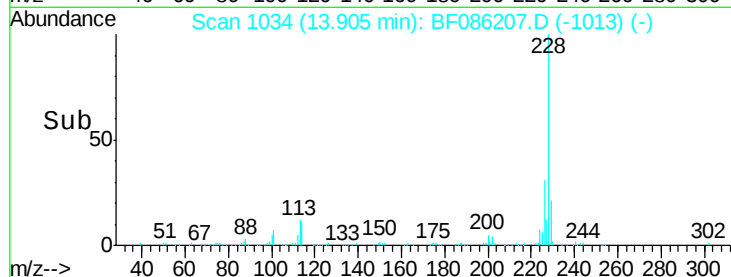
229 21.3 15.7 23.5



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.28 min Scan# 1154

Delta R.T. -0.06 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

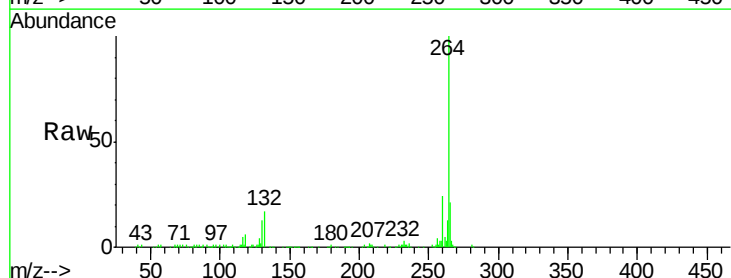
Tgt Ion:264 Resp: 178075

Ion Ratio Lower Upper

264 100

260 23.8 19.4 29.2

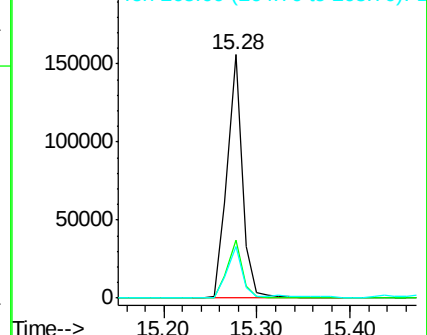
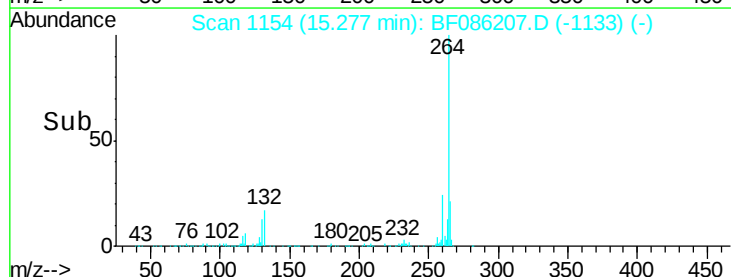
265 21.2 17.2 25.8

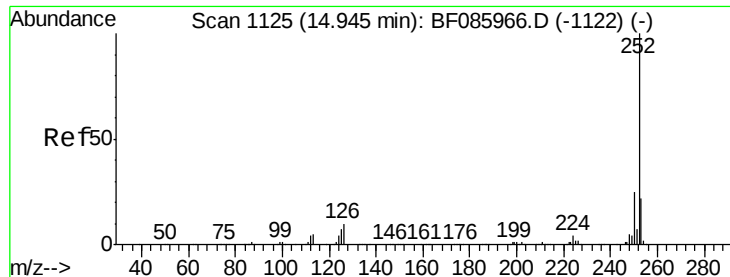


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

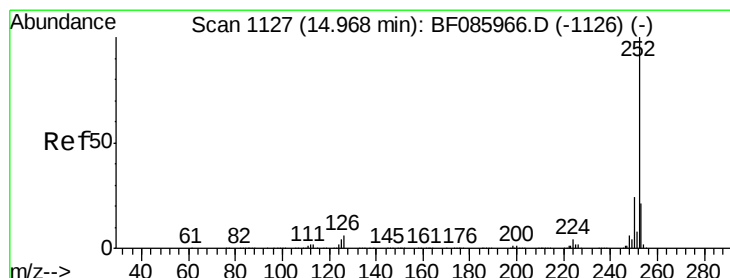
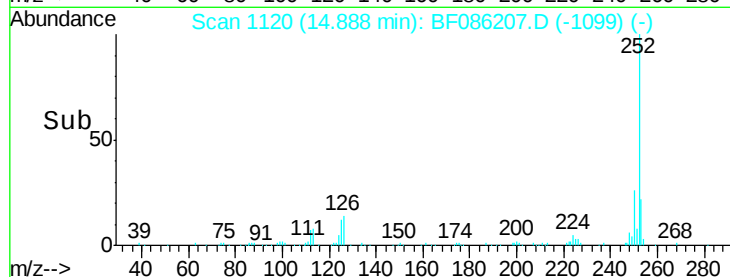
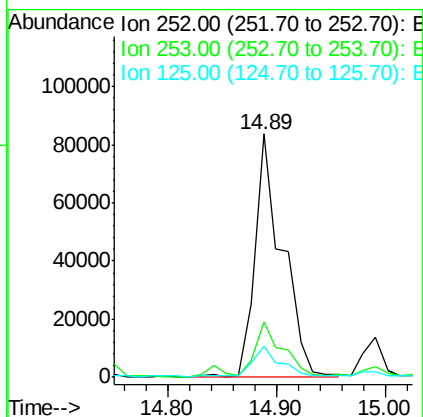
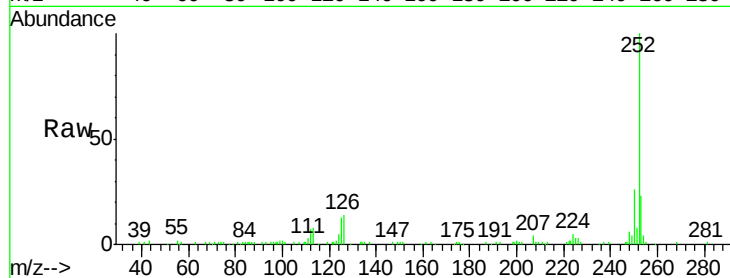




#87
Benzo(b)fluoranthene
Concen: 13.17 ng
RT: 14.89 min Scan# 1120
Delta R.T. -0.06 min
Lab File: BF086207.D
Acq: 9 Apr 2016 9:30

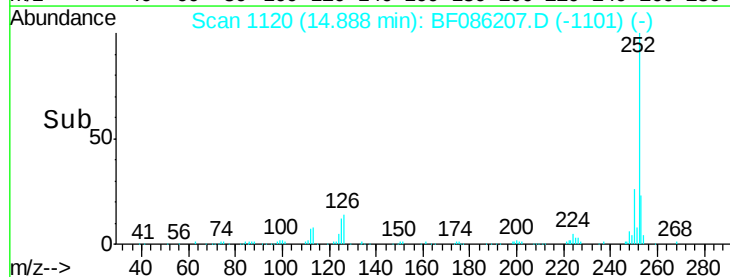
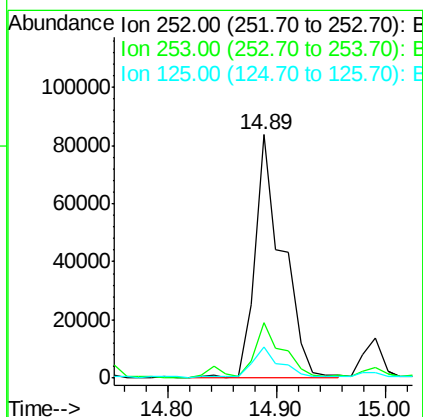
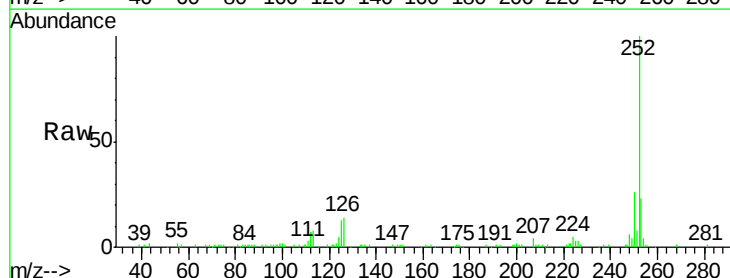
Instrument :
BNA_F
ClientSampleId :
PEDBR-SB4-0-6.0DL

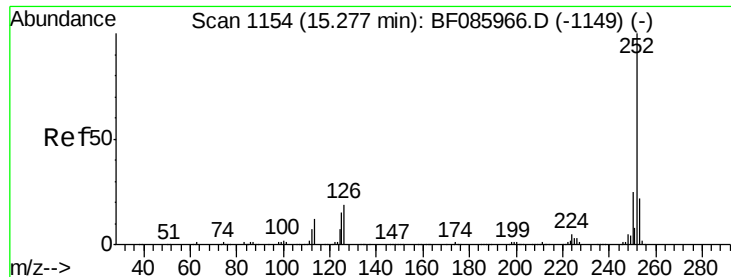
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.6	26.4
125	12.8	10.3	15.5



#88
Benzo(k)fluoranthene
Concen: 14.87 ng
RT: 14.89 min Scan# 1120
Delta R.T. -0.08 min
Lab File: BF086207.D
Acq: 9 Apr 2016 9:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	12.8	7.7	11.5#





#89

Benzo(a)pyrene

Concen: 8.28 ng

RT: 15.22 min Scan# 1149

Delta R.T. -0.06 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

Instrument :

BNA_F

ClientSampleId :

PEDBR-SB4-0-6.0DL

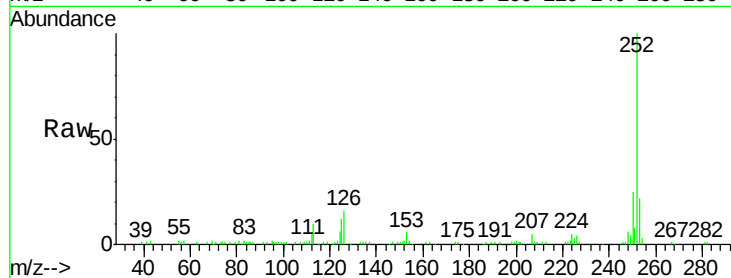
Tgt Ion:252 Resp: 82157

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

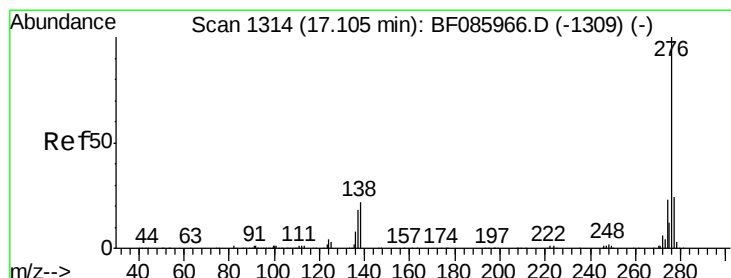
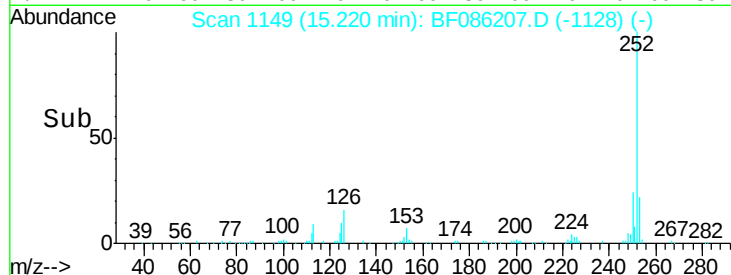
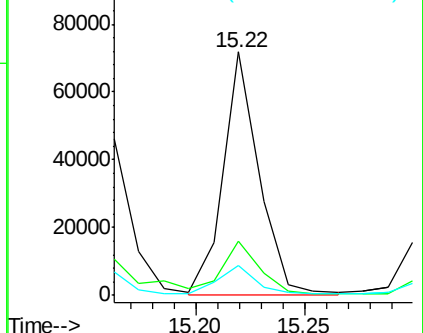
125 12.0 10.3 15.5



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



#91

Benzo(g,h,i)perylene

Concen: 4.99 ng

RT: 17.01 min Scan# 1306

Delta R.T. -0.09 min

Lab File: BF086207.D

Acq: 9 Apr 2016 9:30

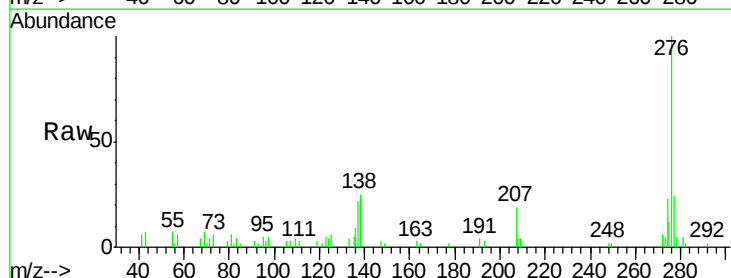
Tgt Ion:276 Resp: 38599

Ion Ratio Lower Upper

276 100

277 23.9 18.8 28.2

138 25.4 22.6 34.0



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

