

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052717\
 Data File : BF095523.D
 Acq On : 28 May 2017 5:19
 Operator : SJ/MA
 Sample : I3281-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 29 01:20:40 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 16:50:16 2017
 Response via : Initial Calibration

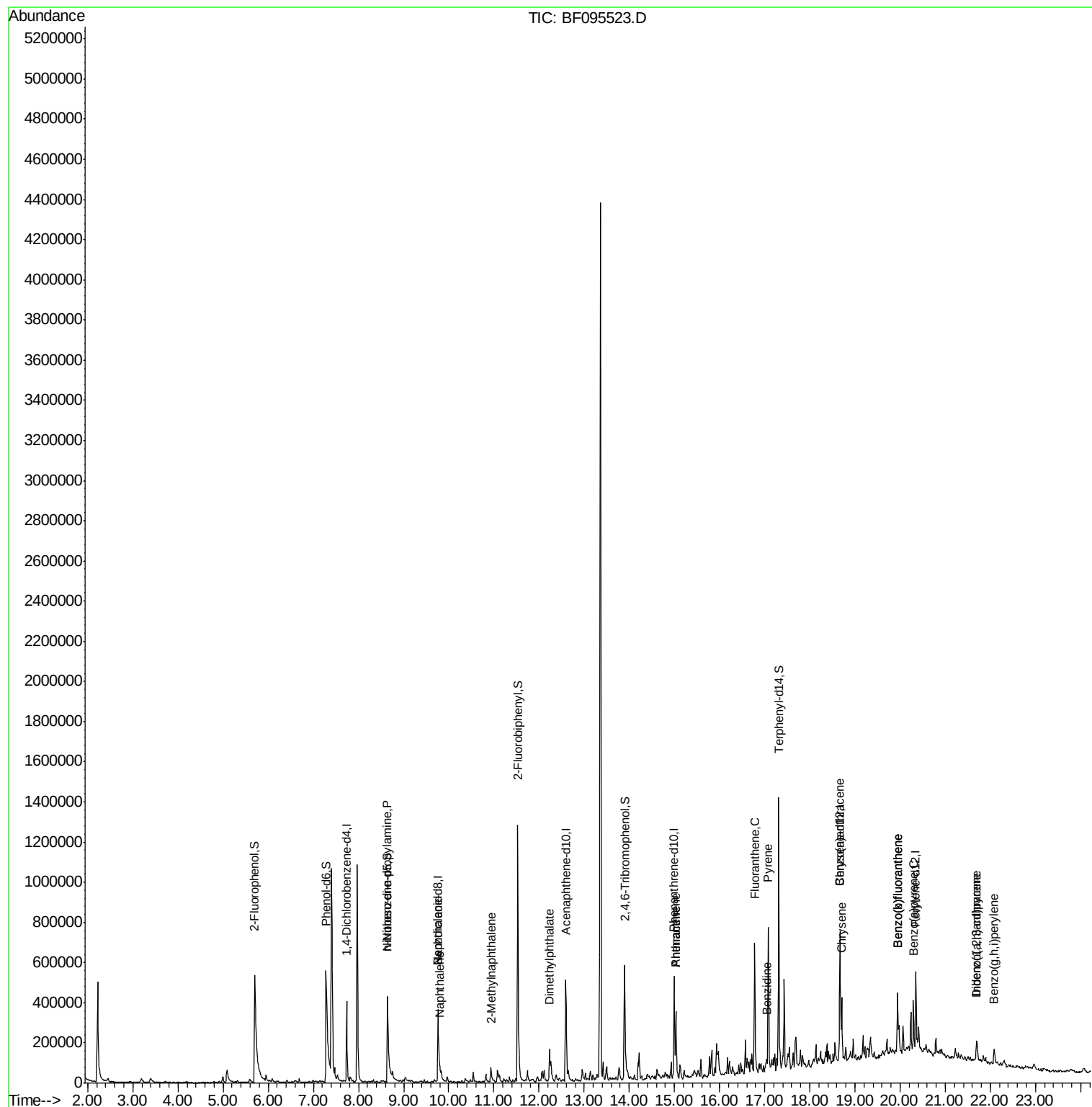
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	93087	20.00	ng	0.00
21) Naphthalene-d8	9.76	136	367364	20.00	ng	0.00
38) Acenaphthene-d10	12.59	164	167449	20.00	ng	0.00
63) Phenanthrene-d10	14.99	188	272639	20.00	ng	0.00
75) Chrysene-d12	18.67	240	208133	20.00	ng	0.00
86) Perylene-d12	20.35	264	180619	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	516551	92.52	ng	0.00
7) Phenol-d6	7.28	99	630354	94.09	ng	-0.01
23) Nitrobenzene-d5	8.64	82	365056	62.66	ng	-0.01
41) 2,4,6-Tribromophenol	13.89	330	116543	84.98	ng	0.00
44) 2-Fluorobiphenyl	11.53	172	698821	60.07	ng	0.00
78) Terphenyl-d14	17.31	244	491427	52.01	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.64	70	41162	9.08	ng	# 75
31) Naphthalene	9.80	128	42937	2.33	ng	98
32) Benzoic acid	9.76	122	111	5.11	ng	# 28
37) 2-Methylnaphthalene	10.94	142	42281	3.49	ng	95
49) Dimethylphthalate	12.23	163	123215	8.96	ng	98
70) Phenanthrene	15.04	178	211890	13.53	ng	98
71) Anthracene	15.04	178	211890	13.24	ng	98
74) Fluoranthene	16.78	202	350630	21.82	ng	99
76) Benzidine	17.04	184	107	6.61	ng	# 1
77) Pyrene	17.08	202	335041	21.52	ng	97
80) Benzo(a)anthracene	18.66	228	155566	12.84	ng	95
82) Chrysene	18.71	228	169641	14.48	ng	97
85) Indeno(1,2,3-cd)pyrene	21.69	276	61465	6.46	ng	96
87) Benzo(b)fluoranthene	19.94	252	218919	19.62	ng	# 97
88) Benzo(k)fluoranthene	19.94	252	218919	20.33	ng	97
89) Benzo(a)pyrene	20.29	252	114437	11.11	ng	97
90) Dibenzo(a,h)anthracene	21.68	278	20599	2.42	ng	# 76
91) Benzo(g,h,i)perylene	22.08	276	61773	7.40	ng	97

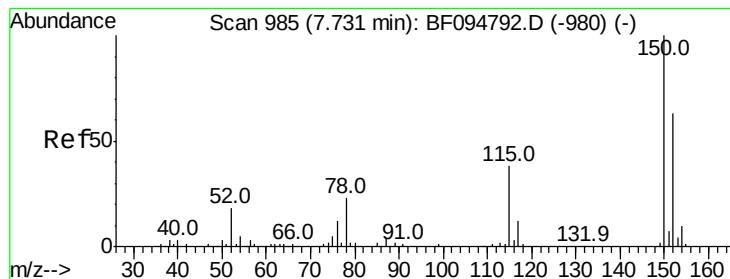
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.74 min Scan# 986

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Instrument :

BNA_F

ClientSampled :

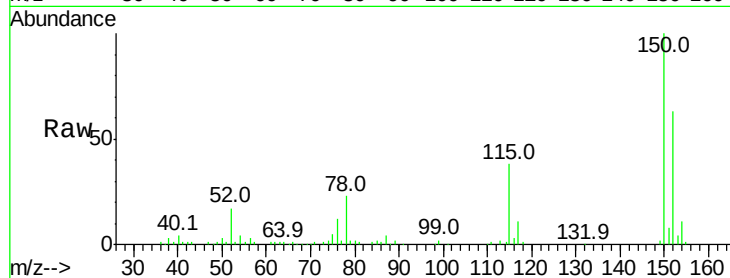
Tot Ion:152 Resp: 93087

Ion Ratio Lower Upper

152 100

150 159.4 126.2 189.2

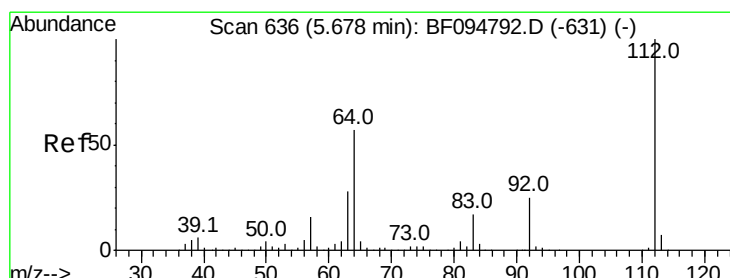
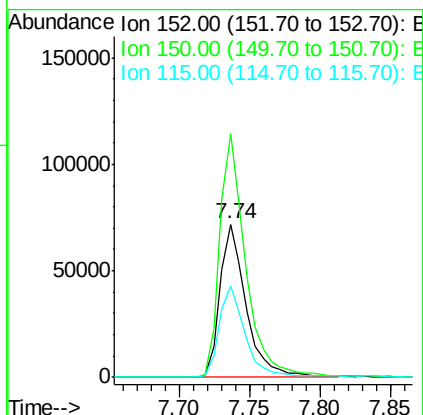
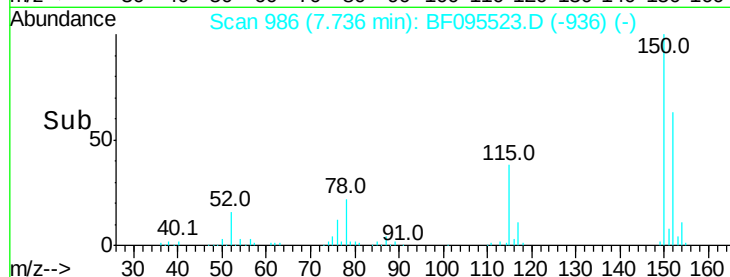
115 60.1 52.2 78.2



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: 92.52 ng

RT: 5.70 min Scan# 640

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

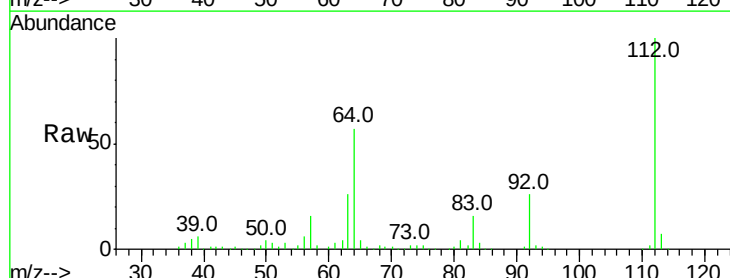
Tgt Ion:112 Resp: 516551

Ion Ratio Lower Upper

112 100

64 56.7 46.0 69.0

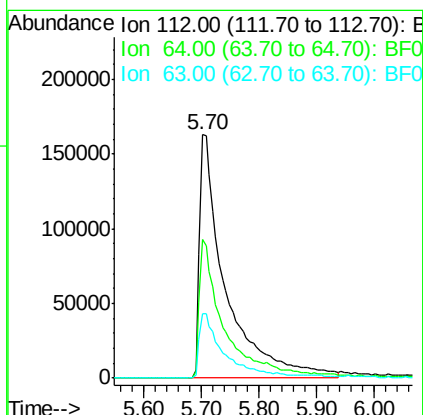
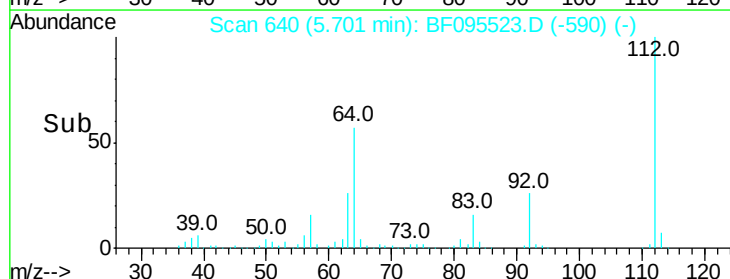
63 26.4 23.4 35.0

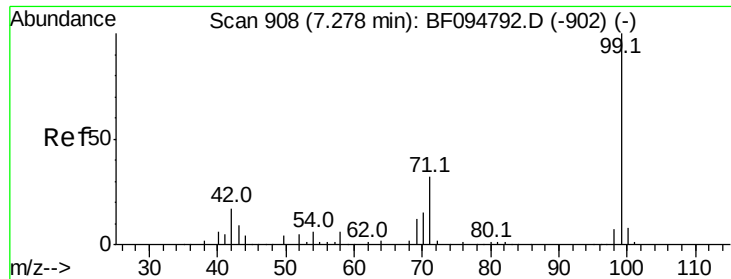


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 94.09 ng

RT: 7.28 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Instrument :

BNA_F

ClientSampleId :

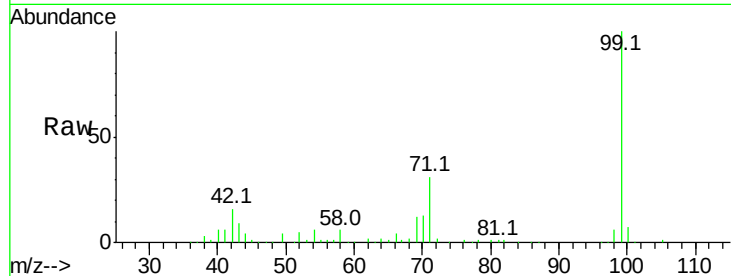
Tot Ion: 99 Resp: 630354

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

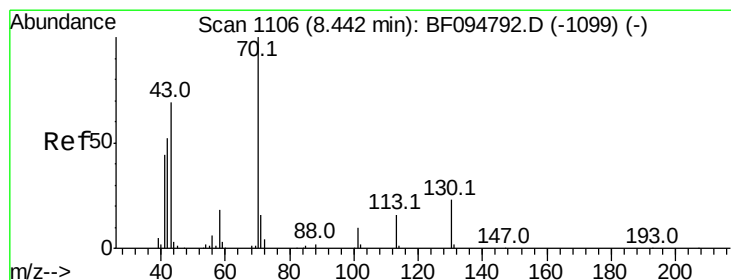
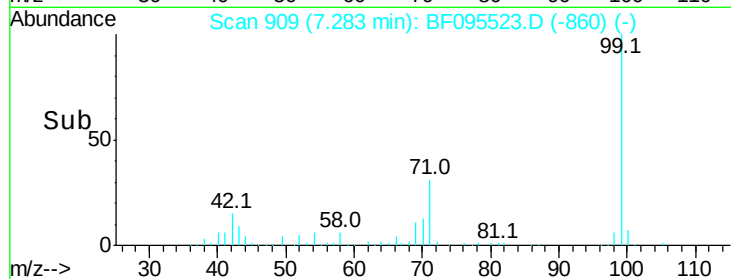
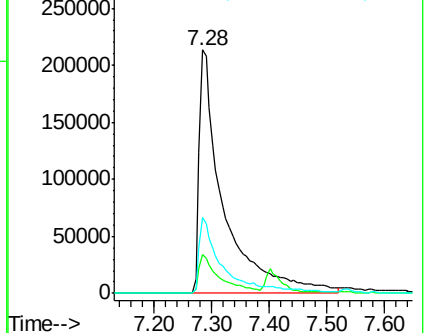
71 31.0 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 9.08 ng

RT: 8.64 min Scan# 1140

Delta R.T. 0.18 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Tgt Ion: 70 Resp: 41162

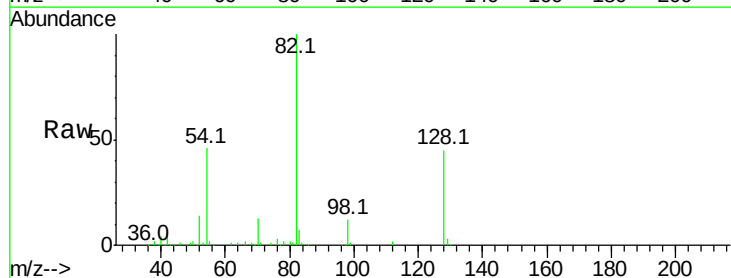
Ion Ratio Lower Upper

70 100

42 43.5 47.2 70.8#

101 0.0 7.2 10.8#

130 3.6 15.9 23.9#

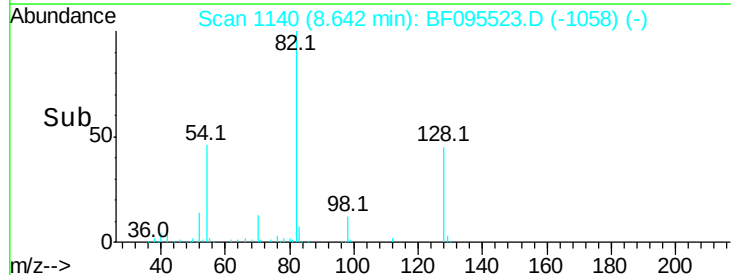
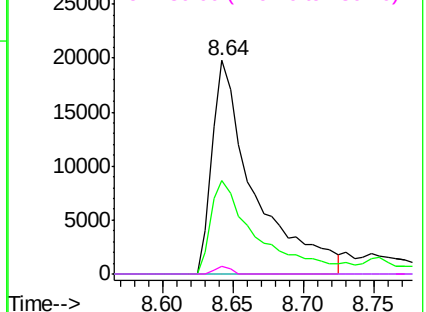


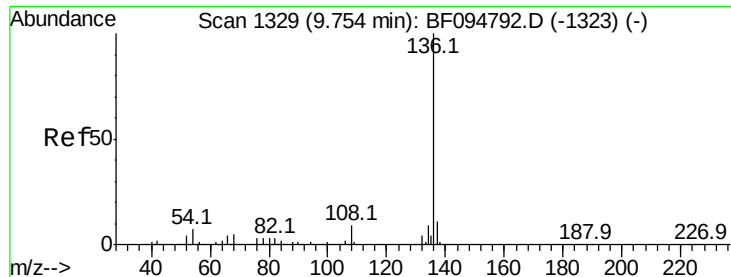
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

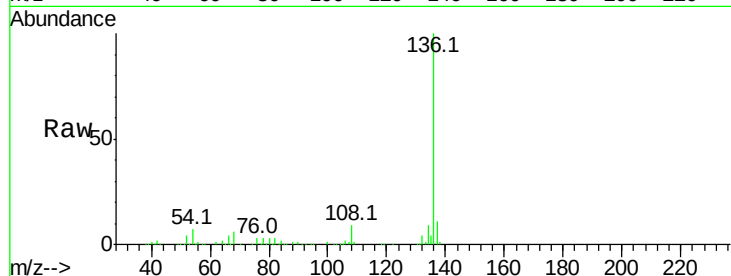




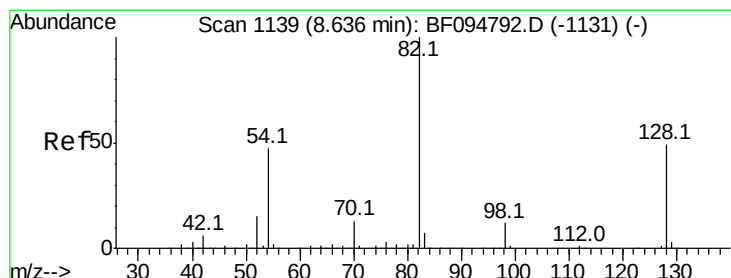
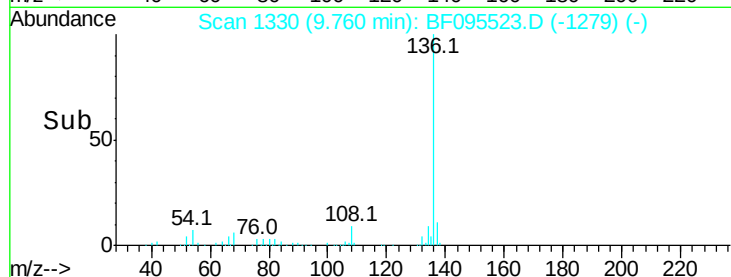
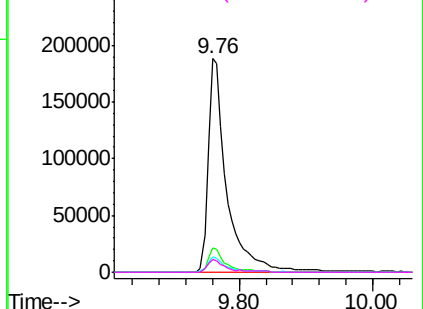
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.76 min Scan# 1330
Delta R.T. -0.00 min
Lab File: BF095523.D
Acq: 28 May 2017 5:19

Instrument :
BNA_F
ClientSampled :

Tot Ion:136	Resp:	367364
Ion Ratio	Lower	Upper
136	100	
137	11.3	8.5 12.7
54	7.1	4.9 7.3
68	5.9	4.1 6.1

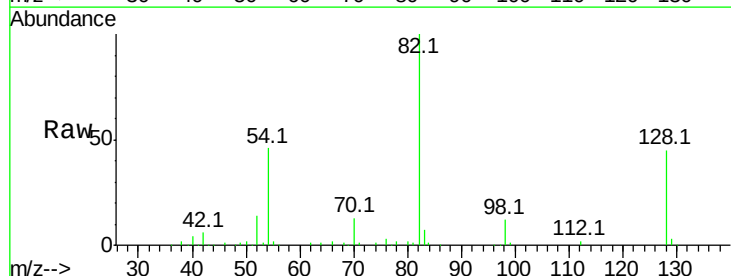


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

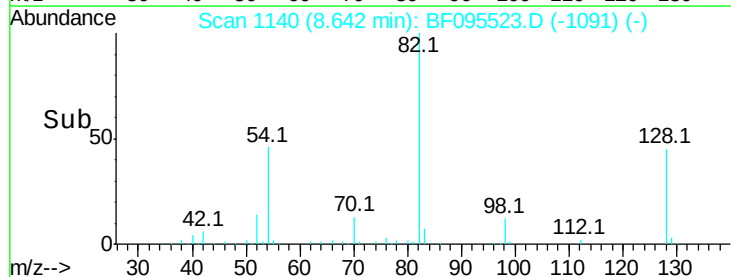
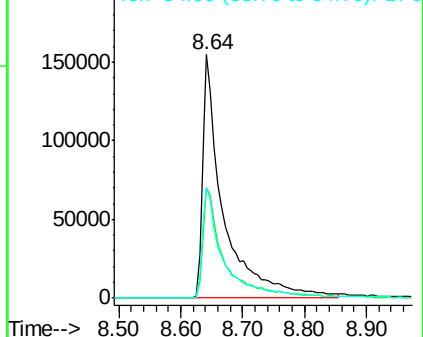


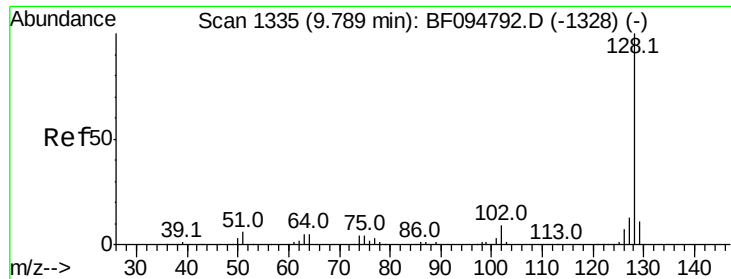
#23
Nitrobenzene-d5
Concen: 62.66 ng
RT: 8.64 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF095523.D
Acq: 28 May 2017 5:19

Tgt Ion: 82	Resp:	365056
Ion Ratio	Lower	Upper
82	100	
128	45.5	34.0 51.0
54	45.6	42.2 63.2



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

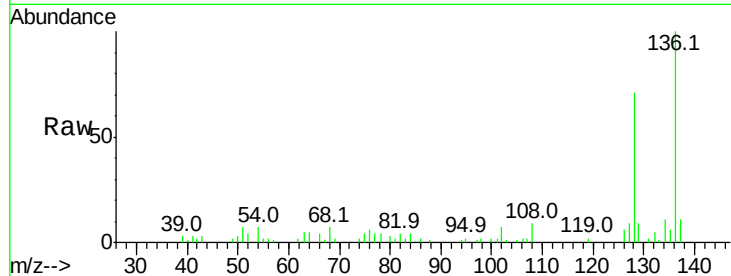




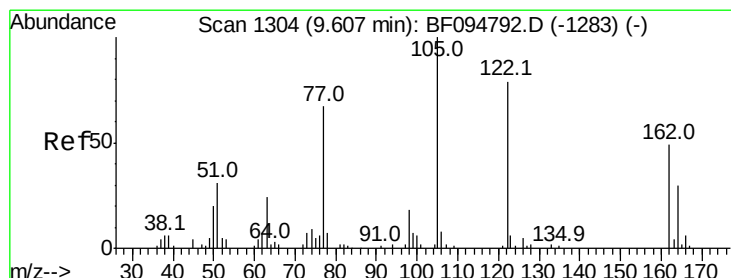
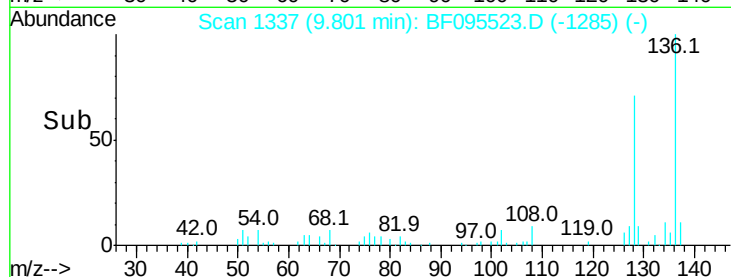
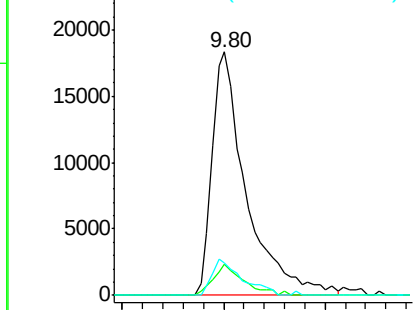
#31
Naphthalene
Concen: 2.33 ng
RT: 9.80 min Scan# 1337
Delta R.T. 0.01 min
Lab File: BF095523.D
Acq: 28 May 2017 5:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion:128 Resp: 42937
Ion Ratio Lower Upper
128 100
129 12.8 9.0 13.6
127 13.2 10.8 16.2

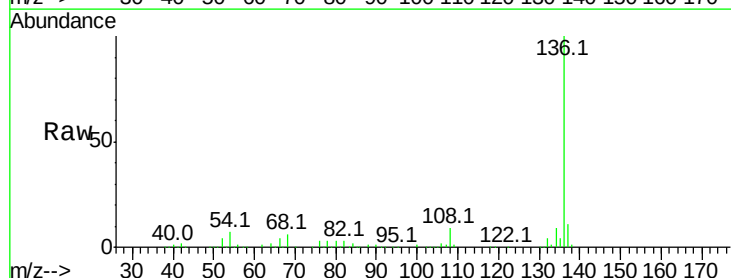


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

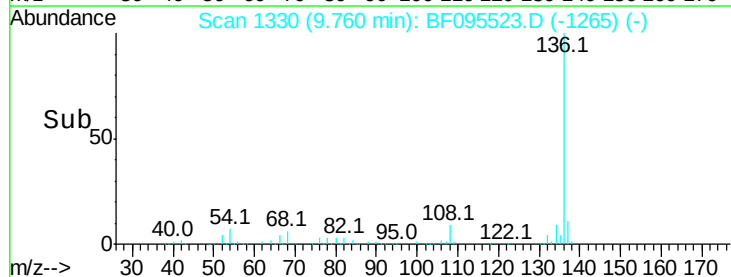
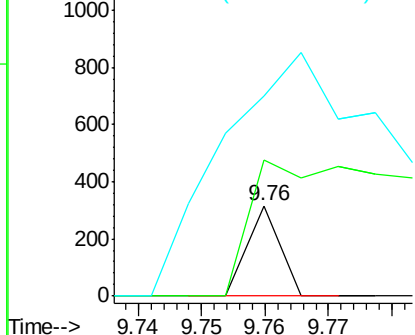


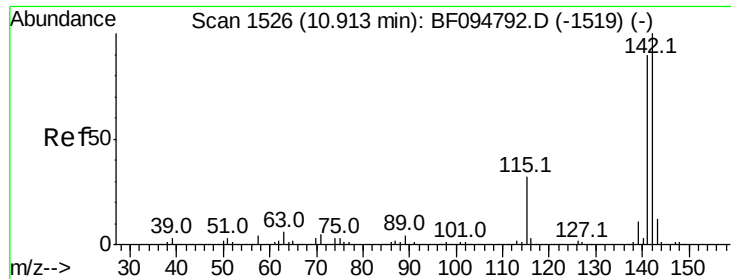
#32
Benzoic acid
Concen: 5.11 ng
RT: 9.76 min Scan# 1330
Delta R.T. 0.08 min
Lab File: BF095523.D
Acq: 28 May 2017 5:19

Tgt Ion:122 Resp: 111
Ion Ratio Lower Upper
122 100
105 151.7 103.3 143.3#
77 221.6 73.7 113.7#



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF0

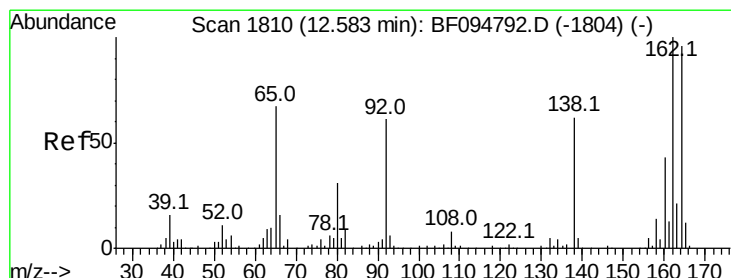
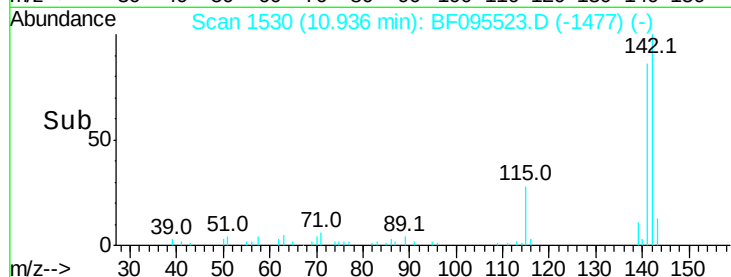
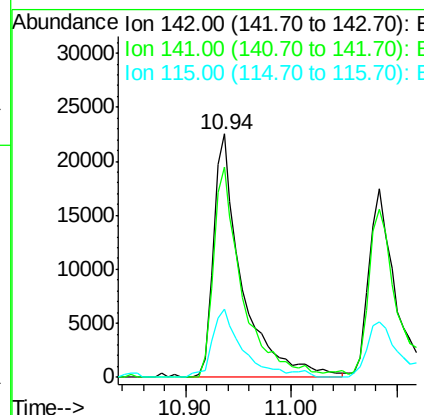
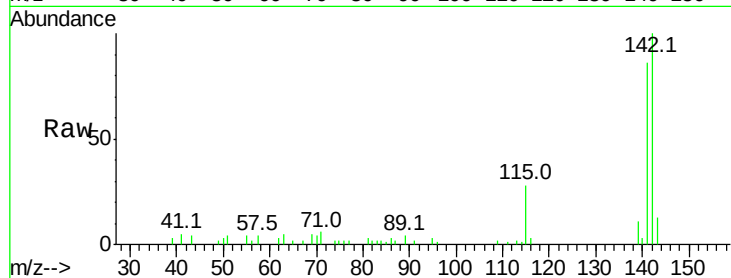




#37
2-Methylnaphthalene
Concen: 3.49 ng
RT: 10.94 min Scan# 1530
Delta R.T. 0.01 min
Lab File: BF095523.D
Acq: 28 May 2017 5:19

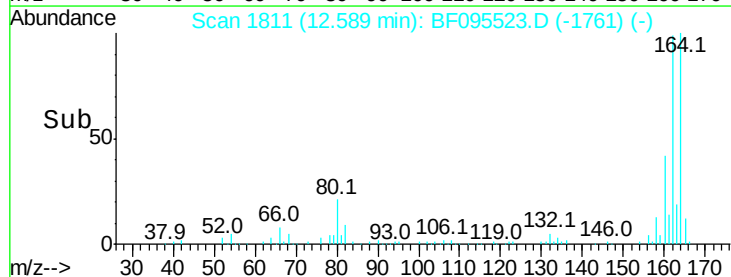
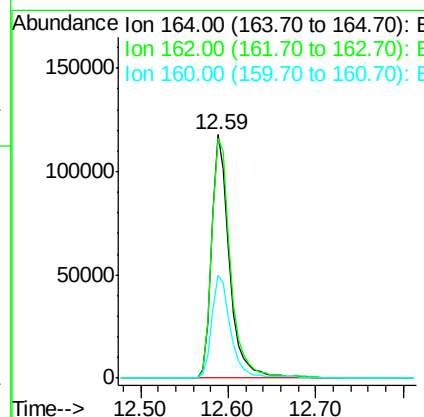
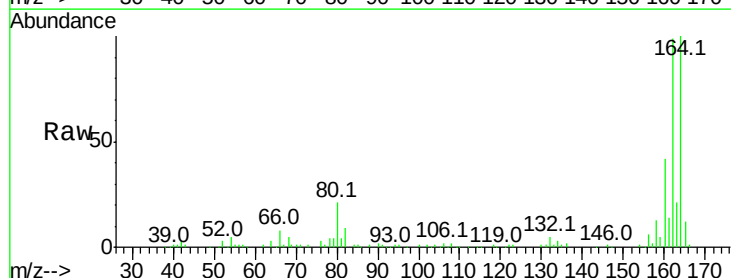
Instrument :
BNA_F
ClientSampleId :

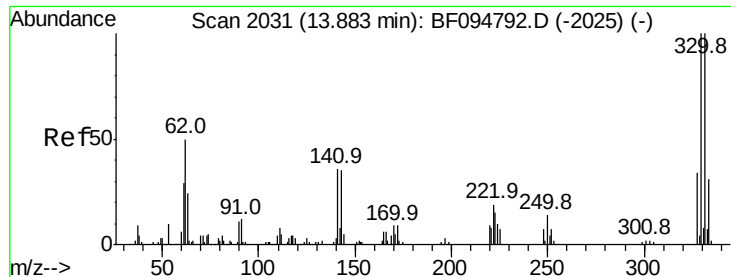
Tot Ion:142 Resp: 42281
Ion Ratio Lower Upper
142 100
141 86.2 71.3 106.9
115 28.1 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.59 min Scan# 1811
Delta R.T. -0.01 min
Lab File: BF095523.D
Acq: 28 May 2017 5:19

Tgt Ion:164 Resp: 167449
Ion Ratio Lower Upper
164 100
162 98.7 82.6 123.8
160 42.2 36.2 54.2

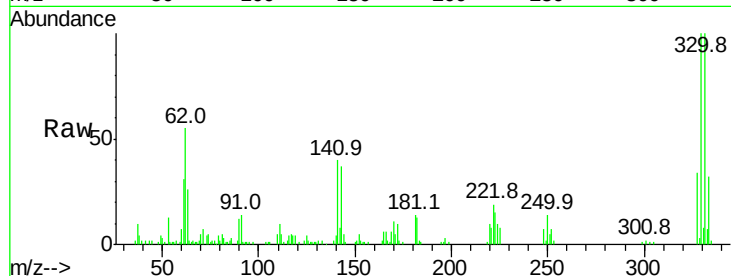




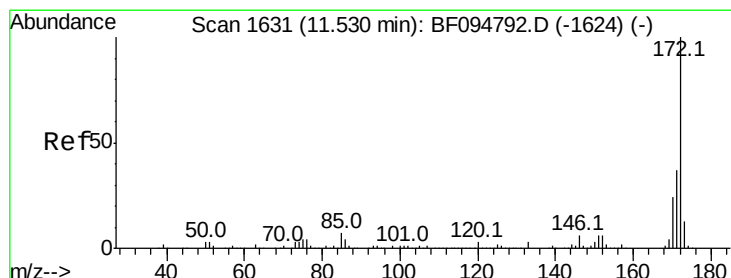
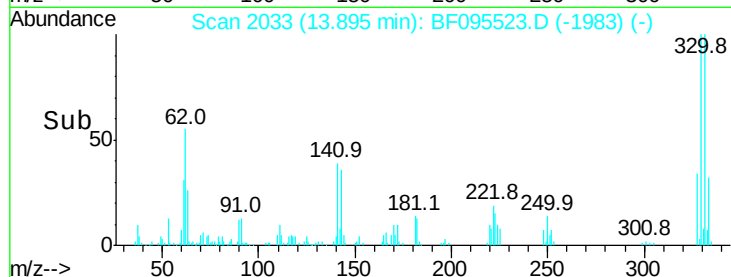
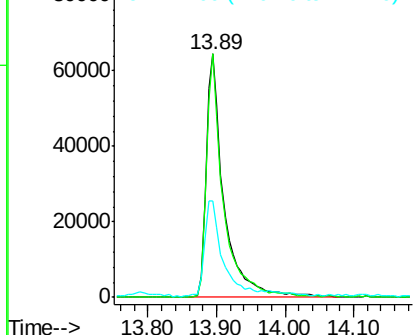
#41
 2,4,6-Tribromophenol
 Concen: 84.98 ng
 RT: 13.89 min Scan# 2033
 Delta R.T. -0.01 min
 Lab File: BF095523.D
 Acq: 28 May 2017 5:19

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 116543
 Ion Ratio Lower Upper
 330 100
 332 96.1 76.6 115.0
 141 46.2 31.4 47.2

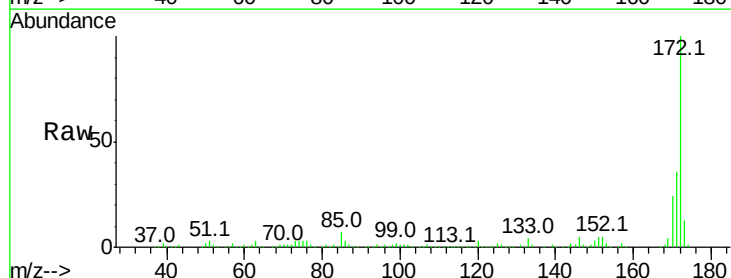


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

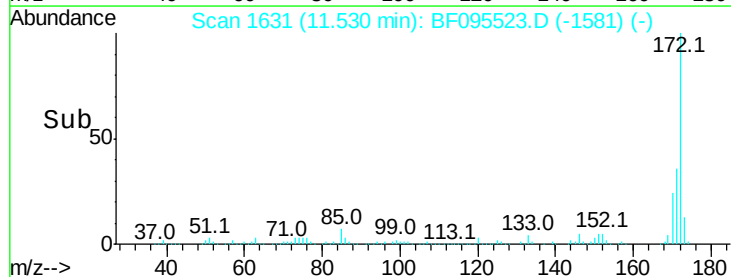
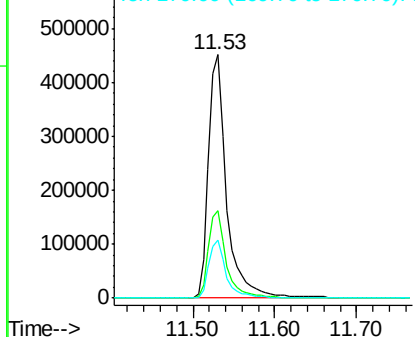


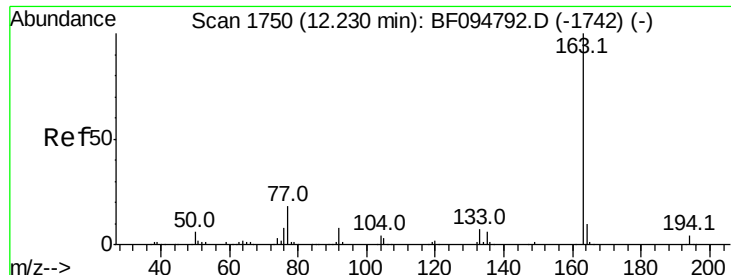
#44
 2-Fluorobiphenyl
 Concen: 60.07 ng
 RT: 11.53 min Scan# 1631
 Delta R.T. -0.01 min
 Lab File: BF095523.D
 Acq: 28 May 2017 5:19

Tgt Ion:172 Resp: 698821
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.6 44.4
 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





#49

Dimethylphthalate

Concen: 8.96 ng

RT: 12.23 min Scan# 1750

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Instrument :

BNA_F

ClientSampleId :

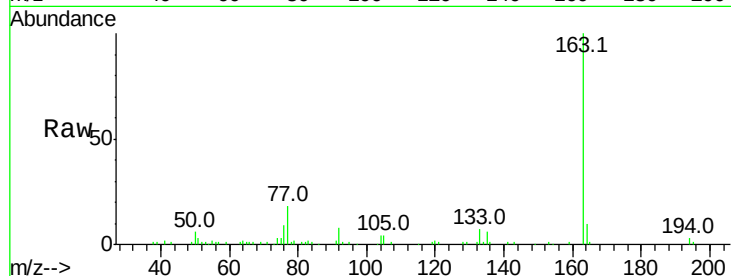
Tot Ion:163 Resp: 123215

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

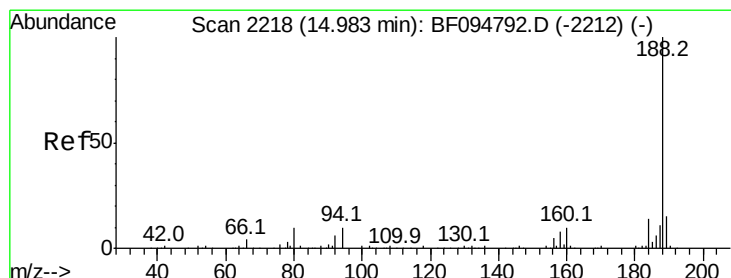
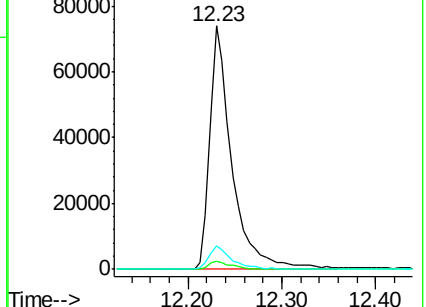
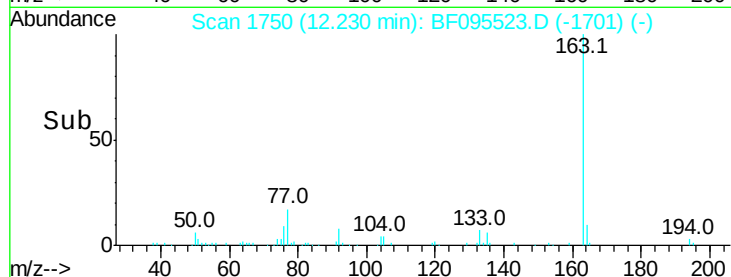
164 9.7 8.4 12.6



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.99 min Scan# 2220

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

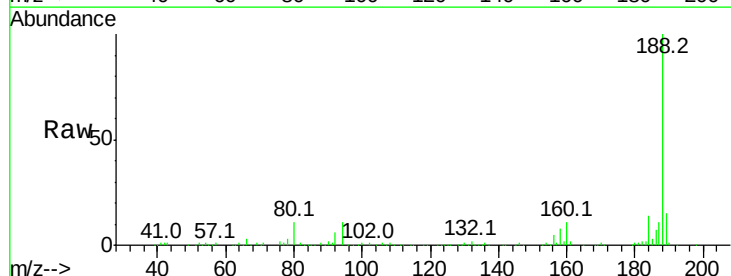
Tgt Ion:188 Resp: 272639

Ion Ratio Lower Upper

188 100

94 10.6 9.4 14.2

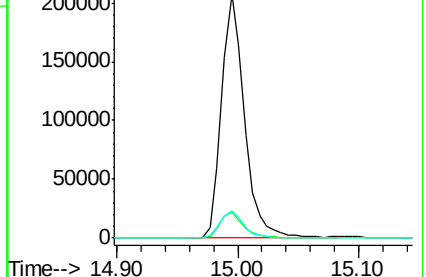
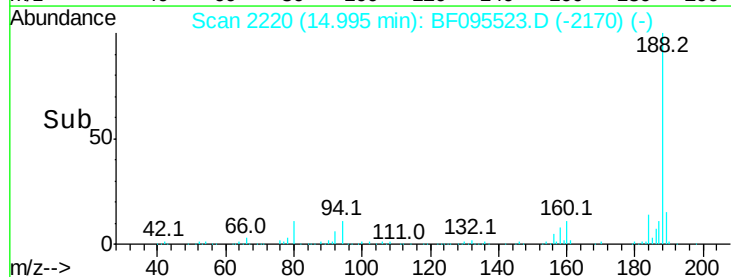
80 11.4 10.2 15.2

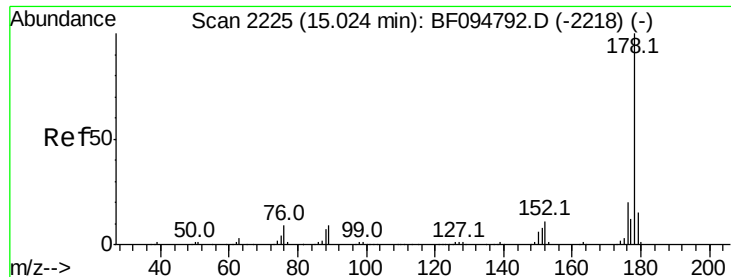


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 13.53 ng

RT: 15.04 min Scan# 2227

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

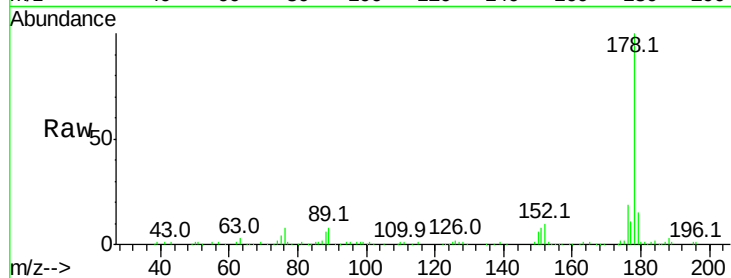
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 211890

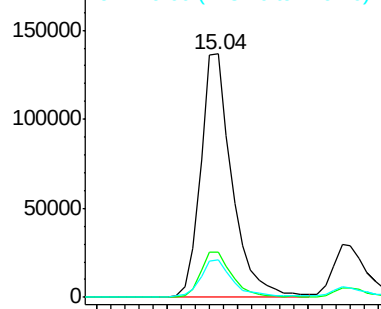
Ion	Ratio	Lower	Upper
178	100		
176	18.8	16.2	24.4
179	15.3	12.6	19.0



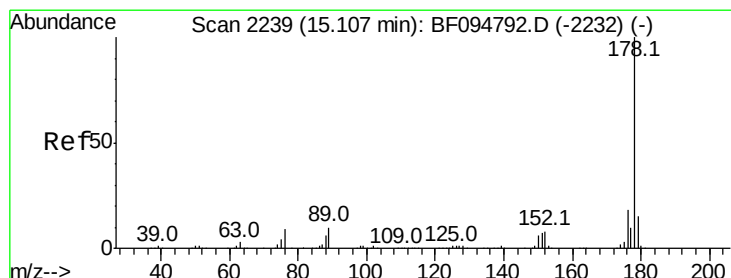
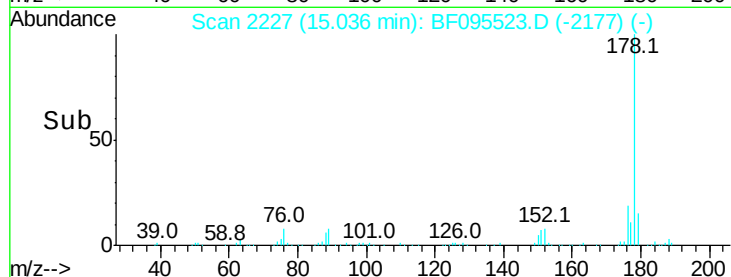
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 14.95 15.00 15.05 15.10



#71

Anthracene

Concen: 13.24 ng

RT: 15.04 min Scan# 2227

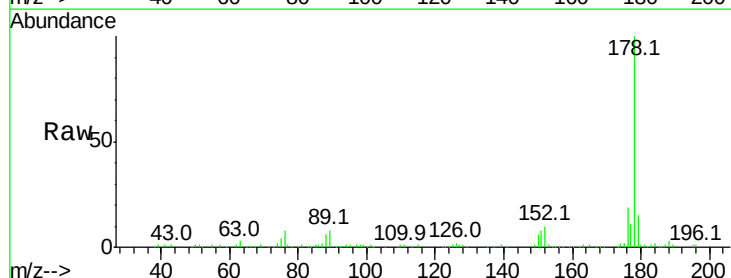
Delta R.T. -0.09 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Tgt Ion:178 Resp: 211890

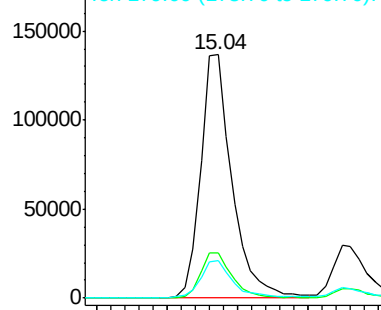
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	15.3	12.7	19.1



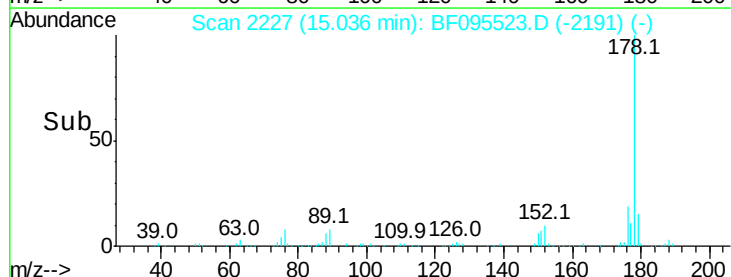
Abundance Ion 178.00 (177.70 to 178.70): E

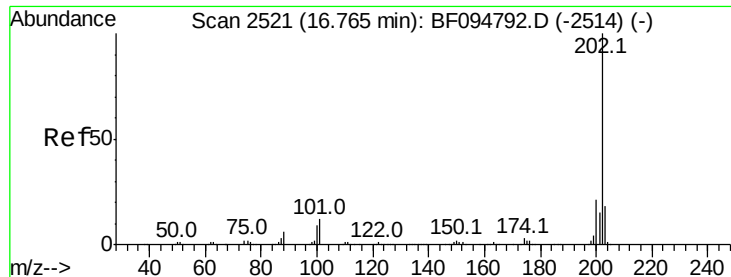
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 14.95 15.00 15.05 15.10





#74

Fluoranthene

Concen: 21.82 ng

RT: 16.78 min Scan# 2523

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Instrument :

BNA_F

ClientSampleId :

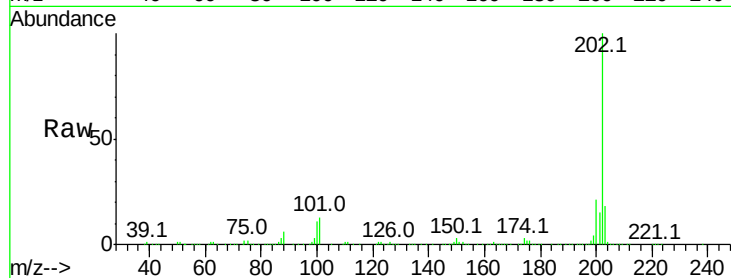
Tot Ion:202 Resp: 350630

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.2

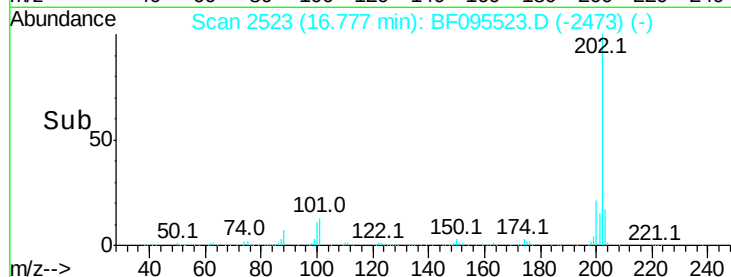
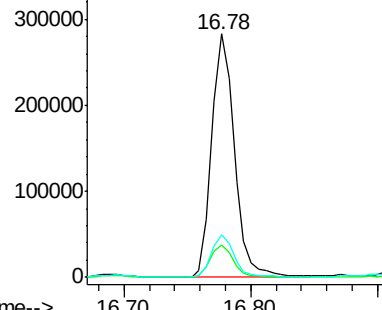
203 17.5 0.0 38.1



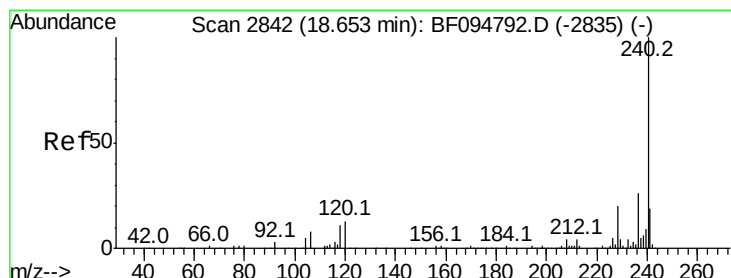
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.67 min Scan# 2845

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

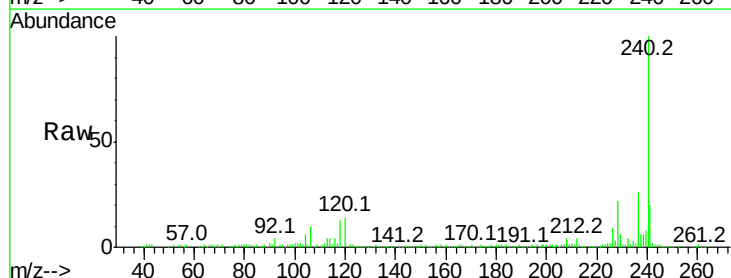
Tgt Ion:240 Resp: 208133

Ion Ratio Lower Upper

240 100

120 14.5 5.8 8.8#

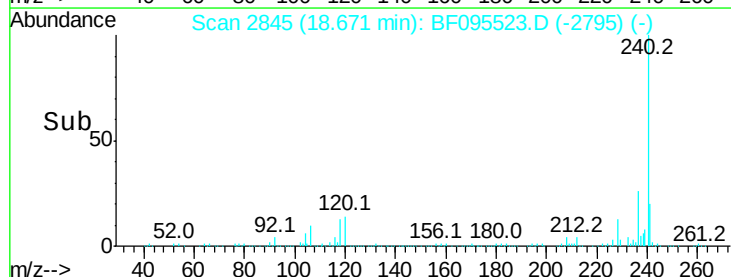
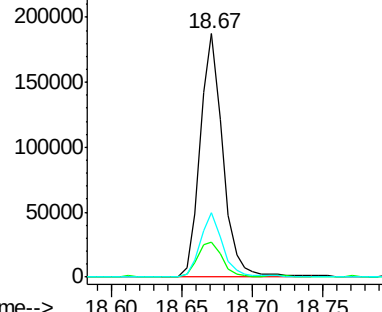
236 26.5 20.5 30.7



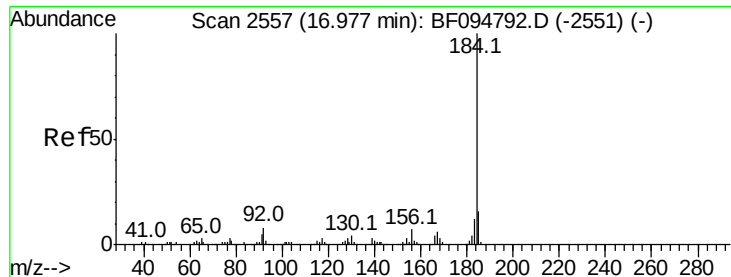
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#76

Benzidine

Concen: 6.61 ng

RT: 17.04 min Scan# 2568

Delta R.T. 0.04 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Instrument :

BNA_F

ClientSampled :

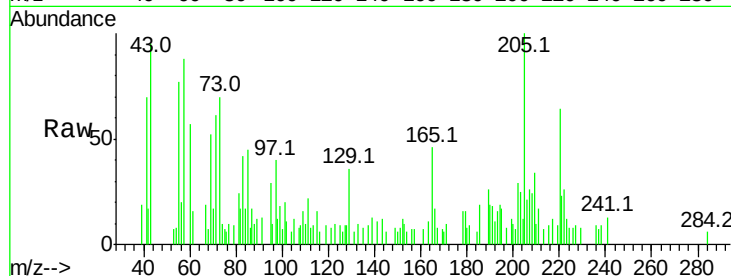
Tot Ion:184 Resp: 107

Ion Ratio Lower Upper

184 100

185 309.9 15.5 23.3#

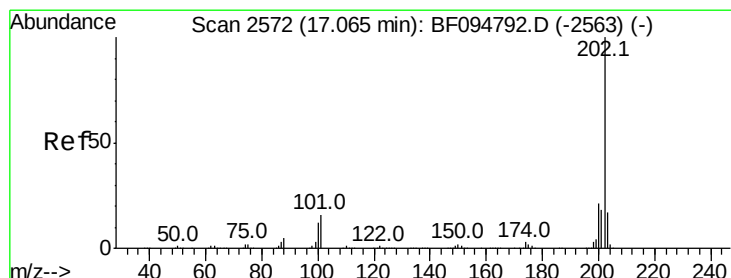
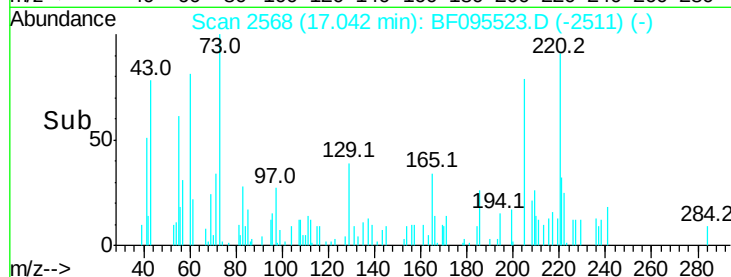
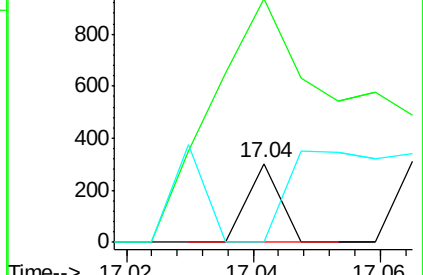
183 0.0 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 21.52 ng

RT: 17.08 min Scan# 2575

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

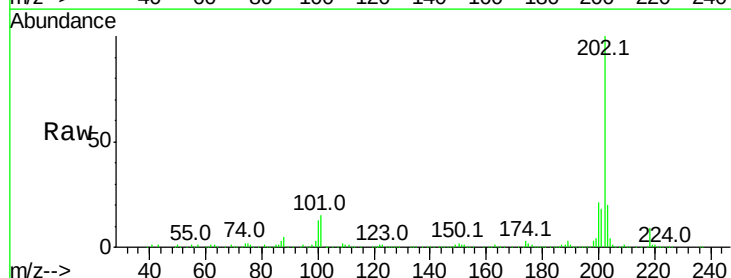
Tgt Ion:202 Resp: 335041

Ion Ratio Lower Upper

202 100

200 21.2 17.6 26.4

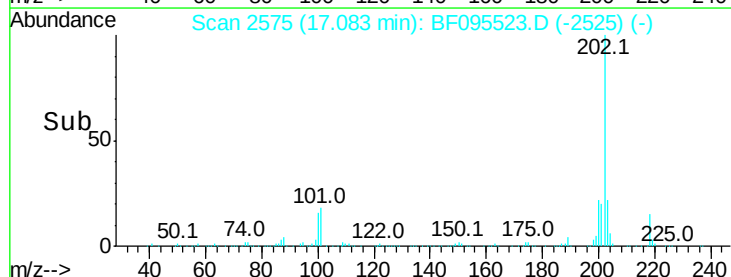
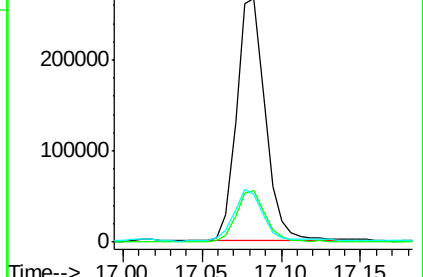
203 19.7 14.4 21.6

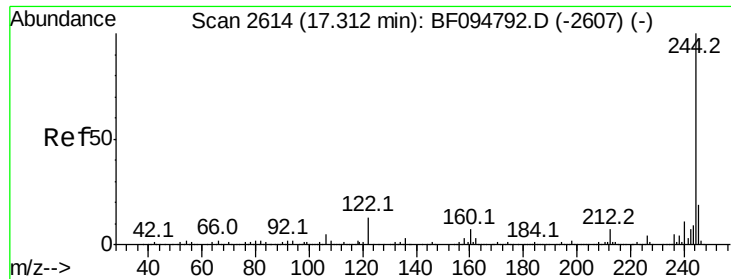


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

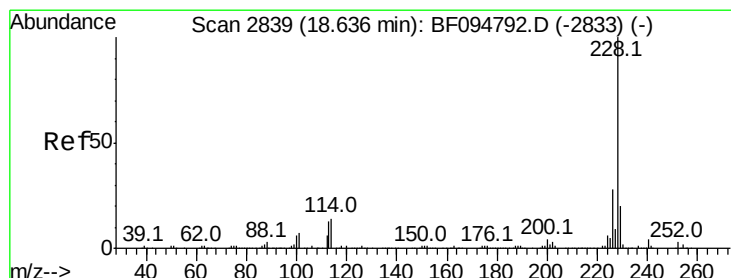
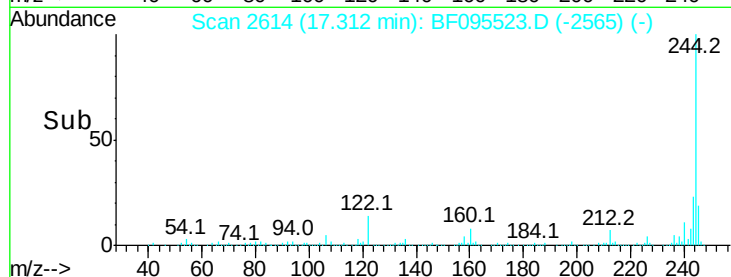
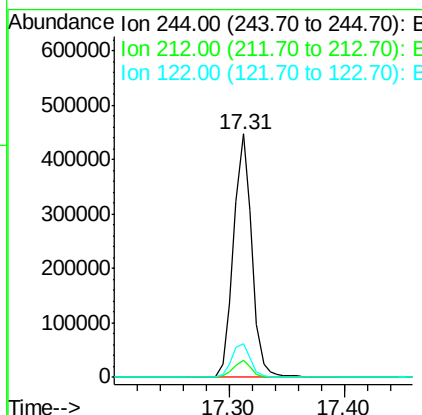
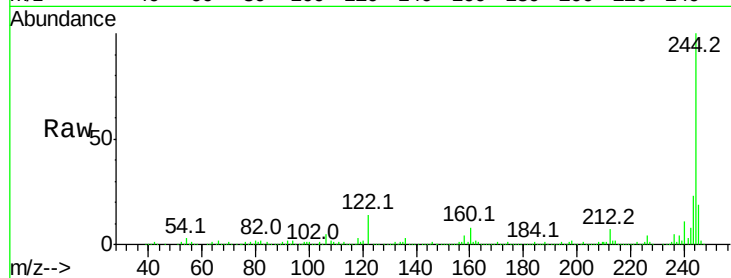




#78
 Terphenyl-d14
 Concen: 52.01 ng
 RT: 17.31 min Scan# 2614
 Delta R.T. -0.01 min
 Lab File: BF095523.D
 Acq: 28 May 2017 5:19

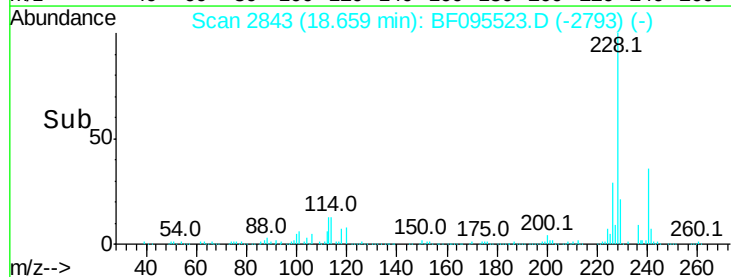
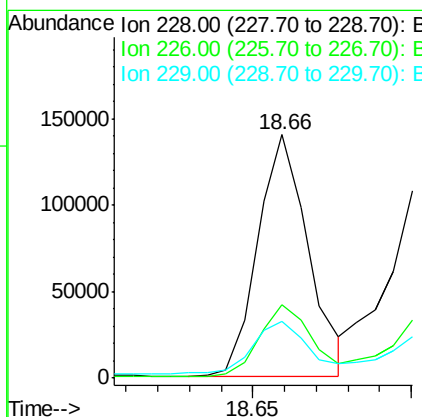
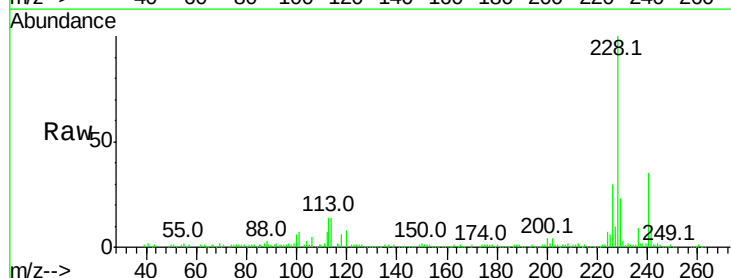
Instrument :
 BNA_F
 ClientSampleID :

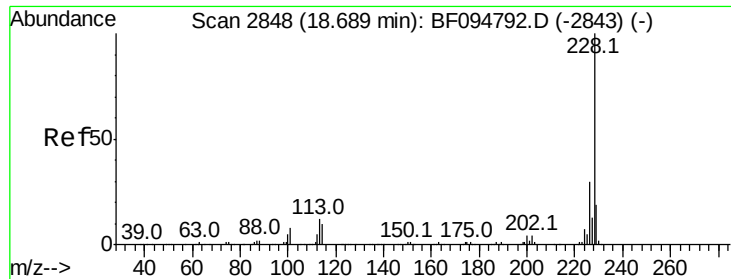
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	14.0	10.3	15.5



#80
 Benzo(a)anthracene
 Concen: 12.84 ng
 RT: 18.66 min Scan# 2843
 Delta R.T. -0.01 min
 Lab File: BF095523.D
 Acq: 28 May 2017 5:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.6	33.8
229	23.3	16.3	24.5





#82

Chrysene

Concen: 14.48 ng

RT: 18.71 min Scan# 2851

Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Instrument :

BNA_F

ClientSampleId :

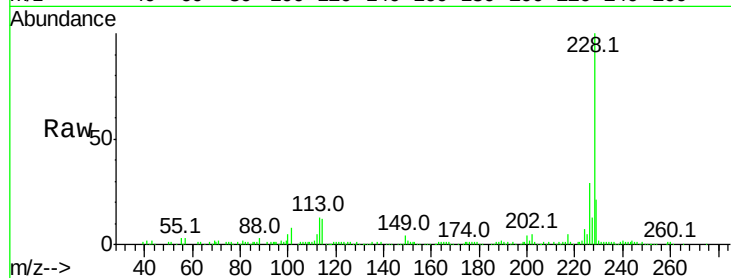
Tot Ion:228 Resp: 169641

Ion Ratio Lower Upper

228 100

226 29.3 24.9 37.3

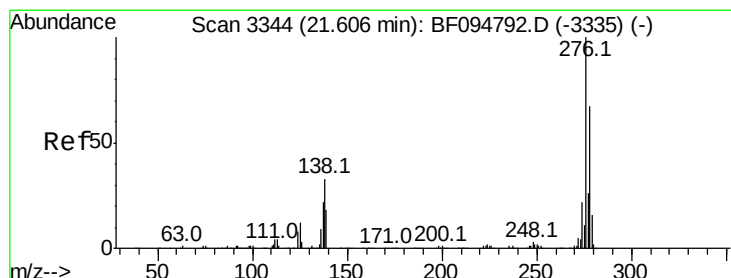
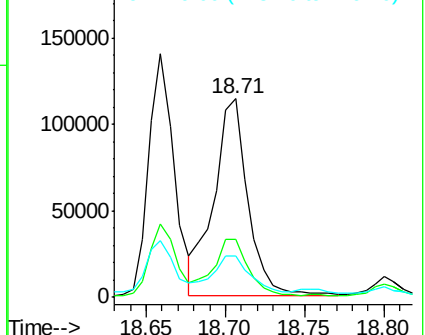
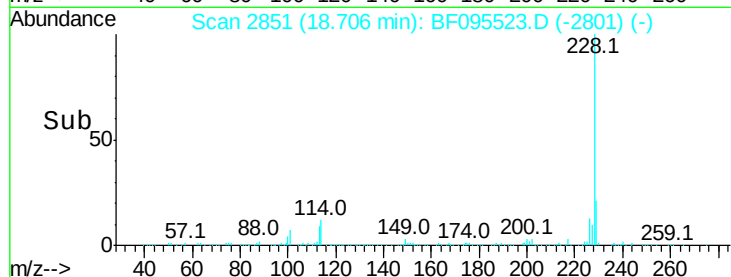
229 21.2 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.46 ng

RT: 21.69 min Scan# 3359

Delta R.T. 0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

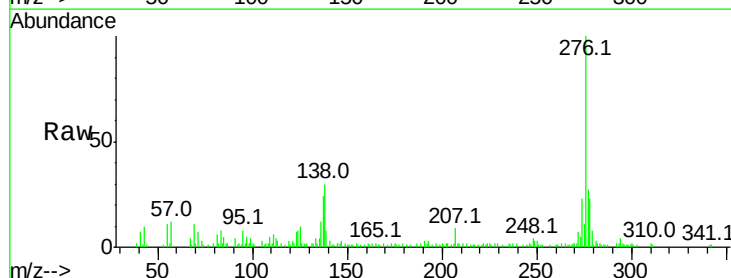
Tgt Ion:276 Resp: 61465

Ion Ratio Lower Upper

276 100

138 32.2 27.8 41.6

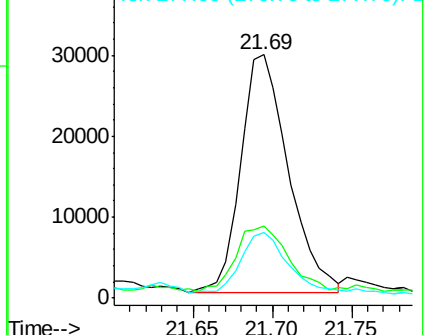
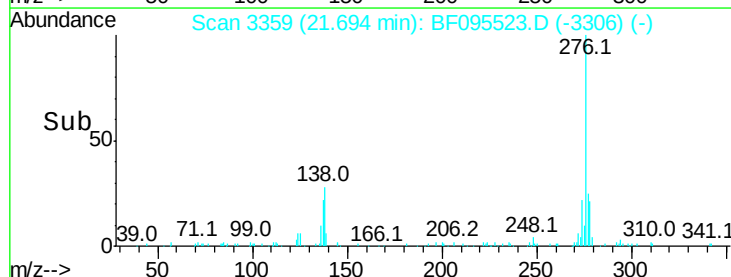
277 23.5 20.2 30.4

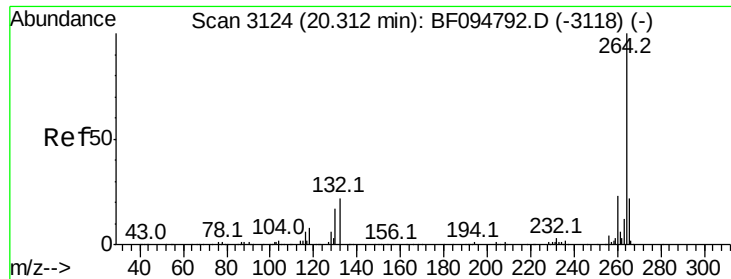


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

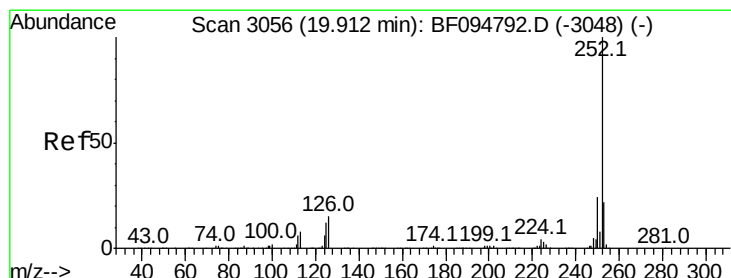
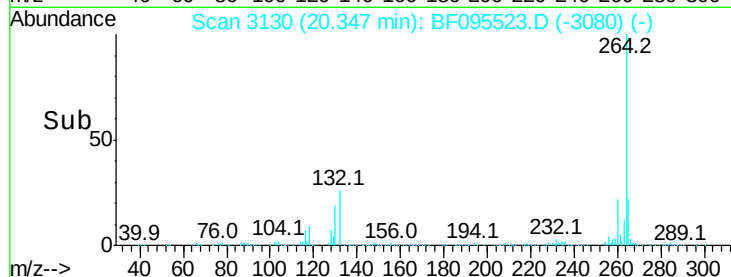
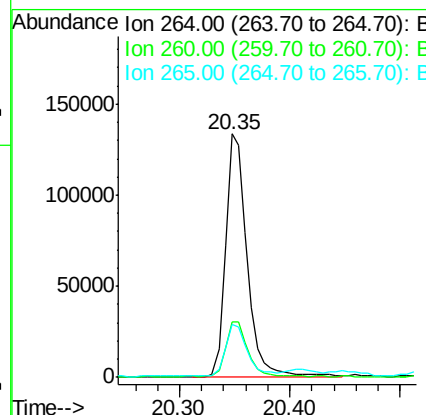
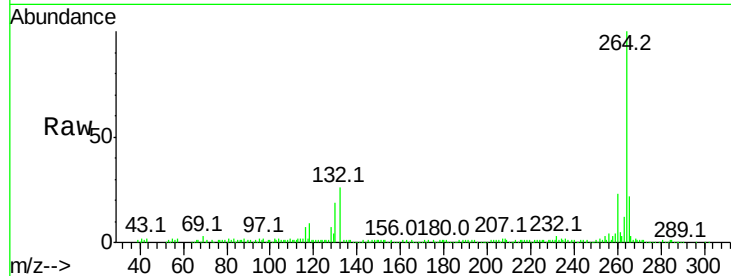




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.35 min Scan# 3130
Delta R.T. -0.01 min
Lab File: BF095523.D
Acq: 28 May 2017 5:19

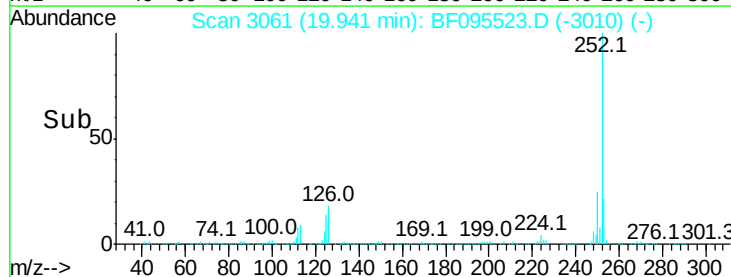
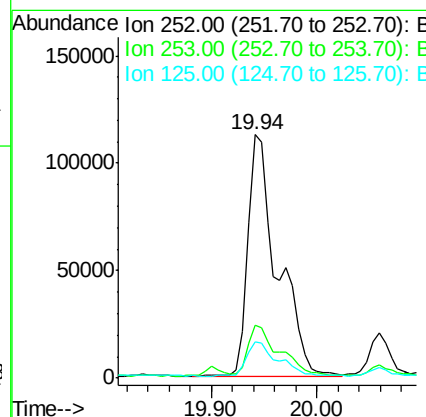
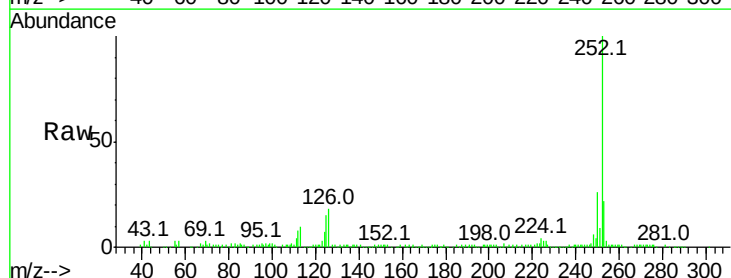
Instrument :
BNA_F
ClientSampleId :

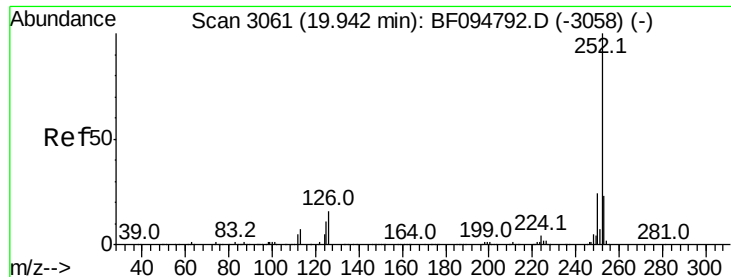
Tot Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.5	29.3
265	21.8	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 19.62 ng
RT: 19.94 min Scan# 3061
Delta R.T. -0.00 min
Lab File: BF095523.D
Acq: 28 May 2017 5:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.1	27.1
125	14.8	9.8	14.8#





#88

Benzo(k)fluoranthene

Concen: 20.33 ng

RT: 19.94 min Scan# 3061

Delta R.T. -0.03 min

Lab File: BF095523.D

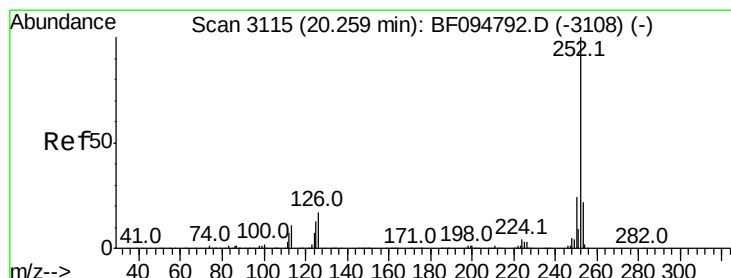
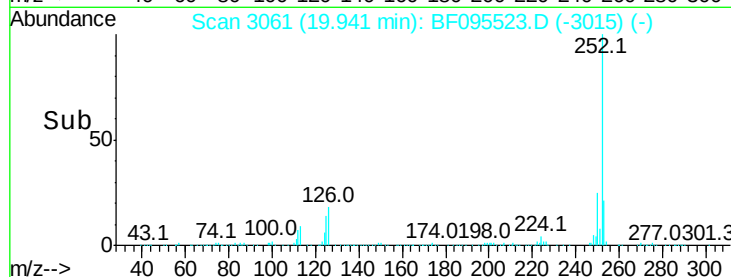
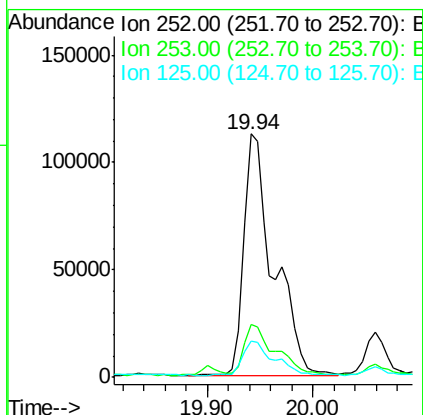
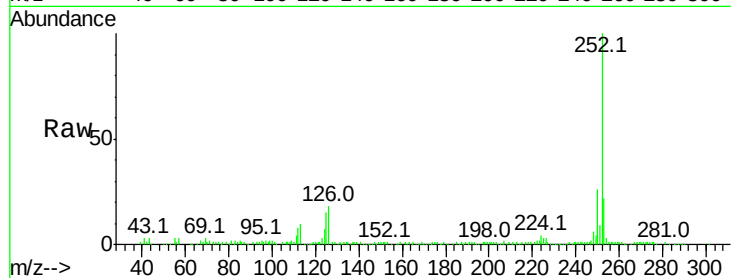
Acq: 28 May 2017 5:19

Instrument :

BNA_F

ClientSampled :

Tot Ion:252	Resp:	218919
Ion Ratio	Lower	Upper
252	100	
253	21.9	18.4 27.6
125	14.8	13.1 19.7



#89

Benzo(a)pyrene

Concen: 11.11 ng

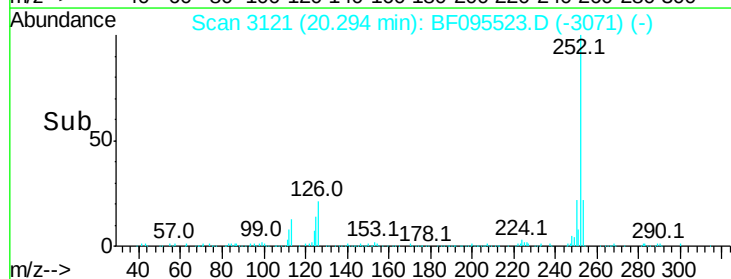
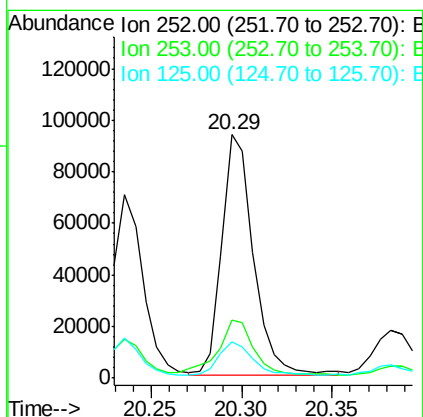
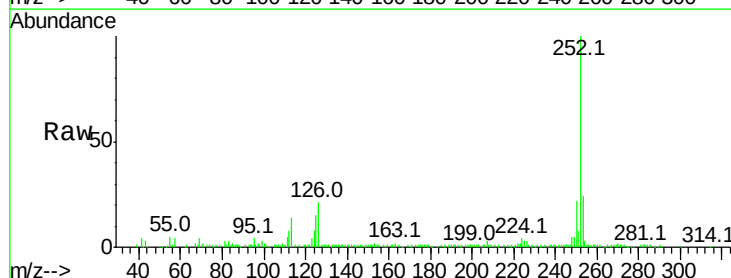
RT: 20.29 min Scan# 3121

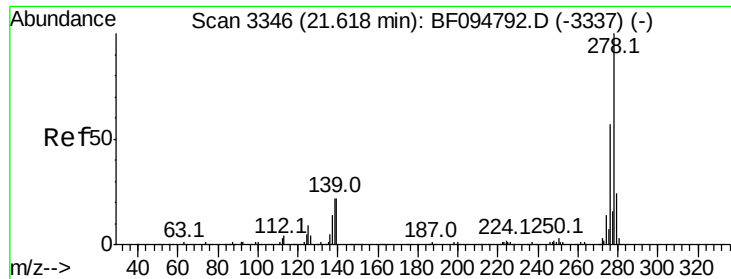
Delta R.T. -0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Tgt Ion:252	Resp:	114437
Ion Ratio	Lower	Upper
252	100	
253	23.7	17.5 26.3
125	14.9	11.0 16.4





#90

Dibenzo(a,h)anthracene

Concen: 2.42 ng

RT: 21.68 min Scan# 3357

Delta R.T. -0.00 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

Instrument :

BNA_F

ClientSampleId :

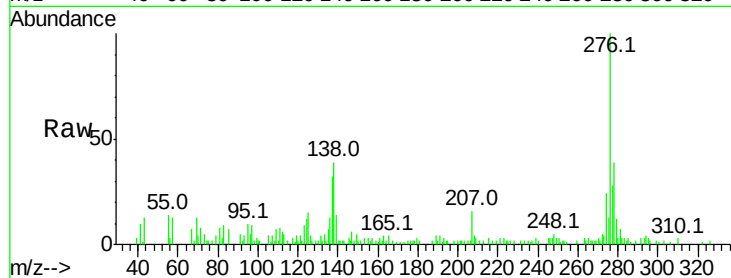
Tot Ion:278 Resp: 20599

Ion Ratio Lower Upper

278 100

139 36.4 16.6 24.8#

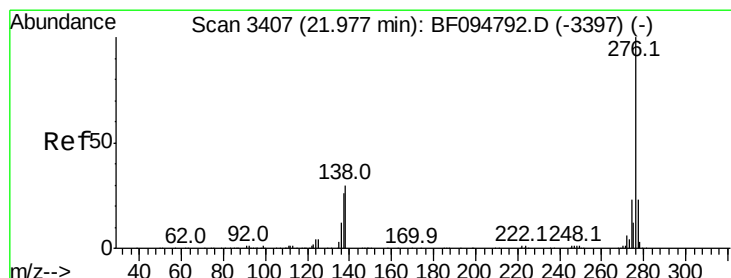
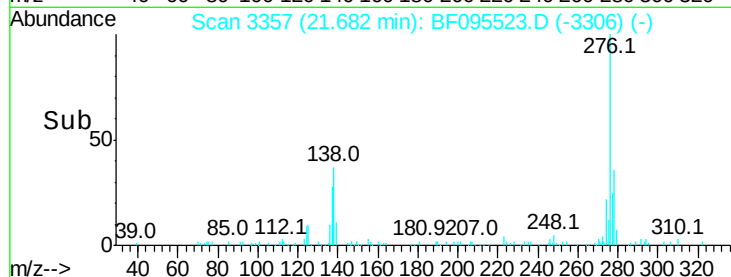
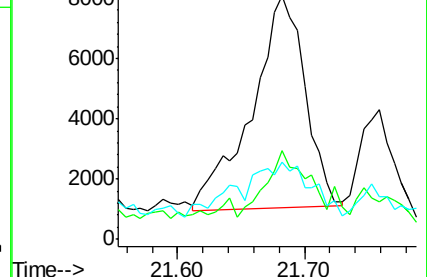
279 31.8 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 7.40 ng

RT: 22.08 min Scan# 3425

Delta R.T. 0.01 min

Lab File: BF095523.D

Acq: 28 May 2017 5:19

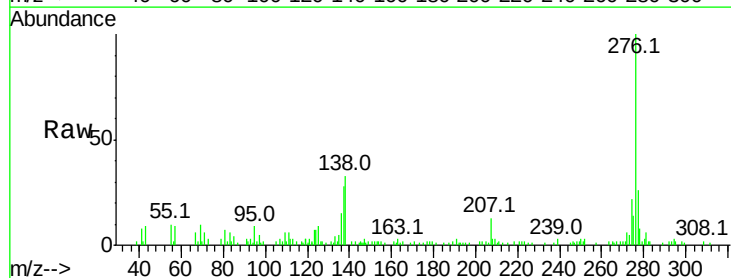
Tgt Ion:276 Resp: 61773

Ion Ratio Lower Upper

276 100

277 26.1 18.6 28.0

138 32.8 25.4 38.0



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

