

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051916\
 Data File : BF087202.D
 Acq On : 19 May 2016 22:33
 Operator : UM/SJ
 Sample : H3132-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FB-BWR-BB-R10-C51(0-15FT)

Quant Time: May 20 02:35:23 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

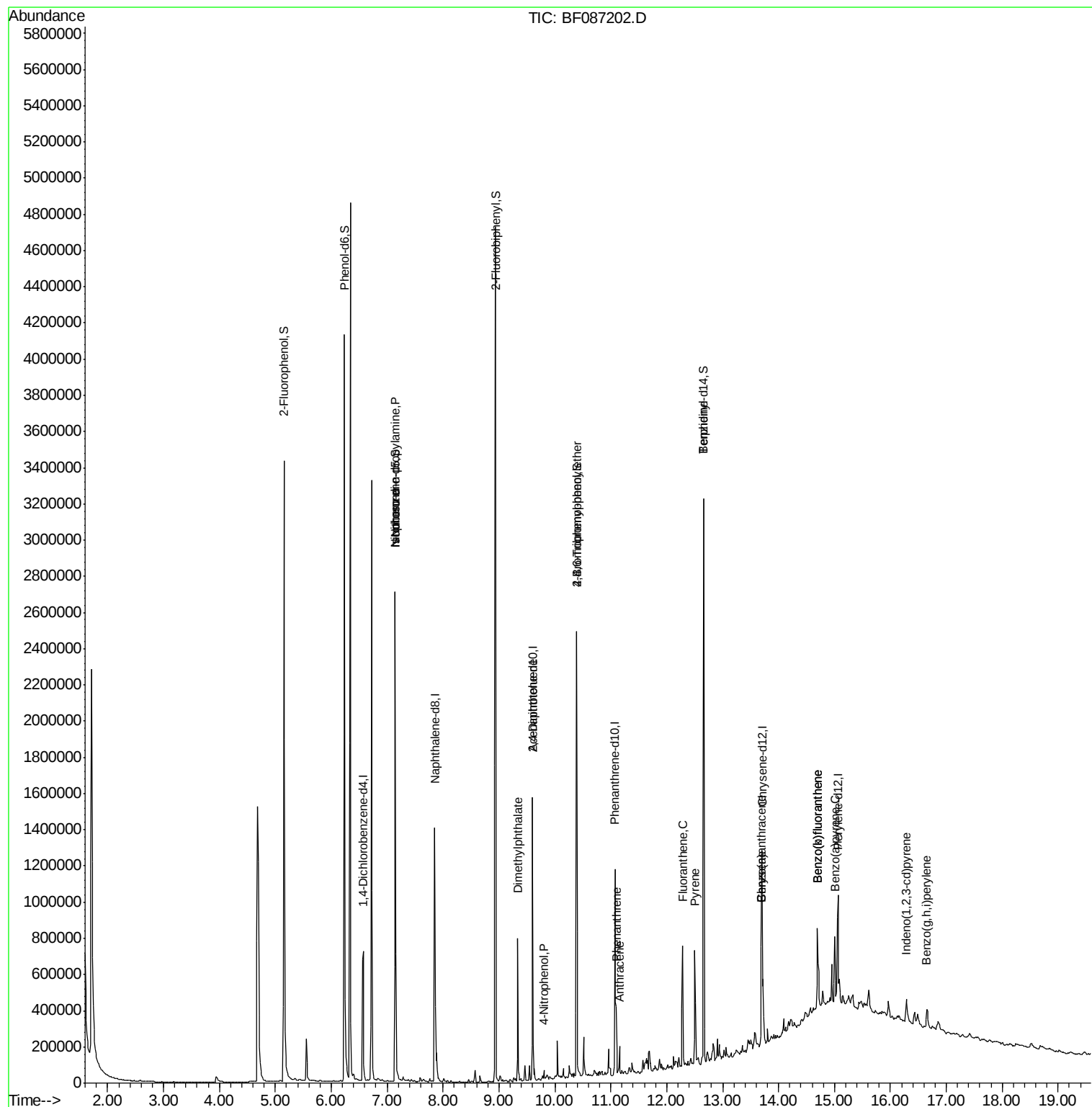
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.57	152	148670	20.00	ng	-0.03
21) Naphthalene-d8	7.85	136	605274	20.00	ng	-0.05
38) Acenaphthene-d10	9.60	164	268601	20.00	ng	-0.05
63) Phenanthrene-d10	11.07	188	412063	20.00	ng	-0.05
75) Chrysene-d12	13.70	240	307622	20.00	ng	-0.06
86) Perylene-d12	15.06	264	293617	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	1093563	123.64	ng	-0.05
7) Phenol-d6	6.24	99	1423520	120.00	ng	-0.05
23) Nitrobenzene-d5	7.14	82	912706	75.15	ng	-0.05
41) 2,4,6-Tribromophenol	10.39	330	295105	99.42	ng	-0.06
44) 2-Fluorobiphenyl	8.94	172	1422641	87.72	ng	-0.05
78) Terphenyl-d14	12.66	244	922183	67.81	ng	-0.05
Target Compounds						
9) Benzaldehyde	6.16	77	1292	Below Cal	#	52
19) n-Nitroso-di-n-propylamine	7.14	70	130861	14.51 ng	#	73
25) Isophorone	7.14	82	769695	34.62 ng	#	68
49) Dimethylphthalate	9.34	163	272207	13.28 ng		99
55) 4-Nitrophenol	9.80	139	5185	3.75 ng	#	24
56) 2,4-Dinitrotoluene	9.60	165	35286	6.19 ng	#	16
66) 4-Bromophenyl-phenylether	10.39	248	17364	4.10 ng	#	1
70) Phenanthrene	11.10	178	139829	6.26 ng		98
71) Anthracene	11.15	178	58504	2.59 ng		97
74) Fluoranthene	12.28	202	307485	13.73 ng		92
76) Benzidine	12.66	184	15562	2.31 ng	#	91
77) Pyrene	12.50	202	294389	13.25 ng		97
80) Benzo(a)anthracene	13.69	228	191206	10.75 ng		98
82) Chrysene	13.69	228	191206	11.11 ng		98
85) Indeno(1,2,3-cd)pyrene	16.29	276	84515	5.59 ng	#	92
87) Benzo(b)fluoranthene	14.70	252	296954	15.25 ng		97
88) Benzo(k)fluoranthene	14.70	252	296954	20.48 ng		99
89) Benzo(a)pyrene	15.01	252	156439	9.61 ng		97
91) Benzo(g,h,i)perylene	16.65	276	80357	5.80 ng		95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.57 min Scan# 436

Delta R.T. -0.03 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C51(0-15FT)

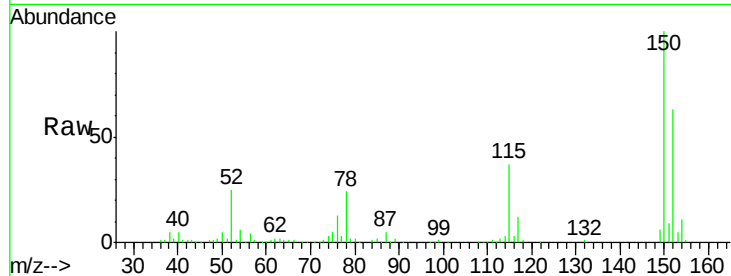
Tgt Ion:152 Resp: 148670

Ion Ratio Lower Upper

152 100

150 157.6 125.8 188.6

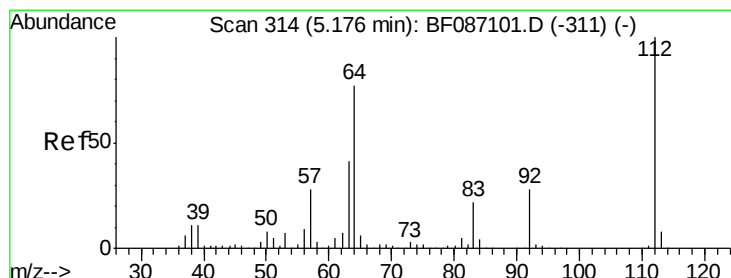
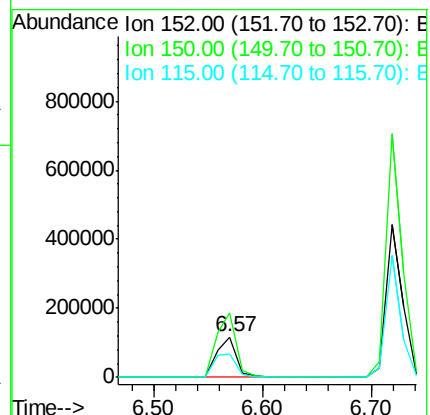
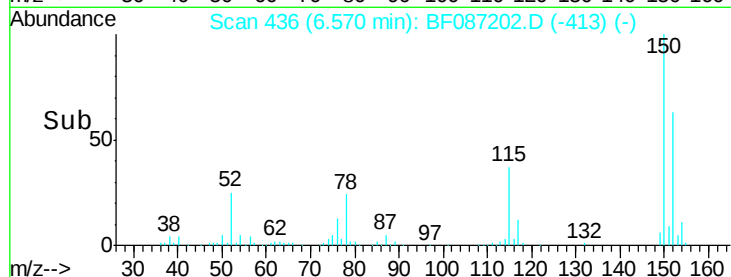
115 58.8 51.5 77.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 123.64 ng

RT: 5.15 min Scan# 312

Delta R.T. -0.05 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

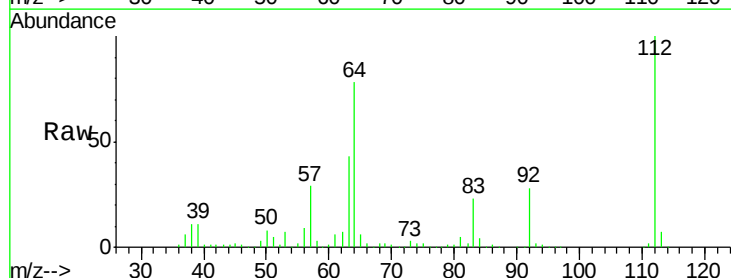
Tgt Ion:112 Resp: 1093563

Ion Ratio Lower Upper

112 100

64 77.9 52.1 78.1

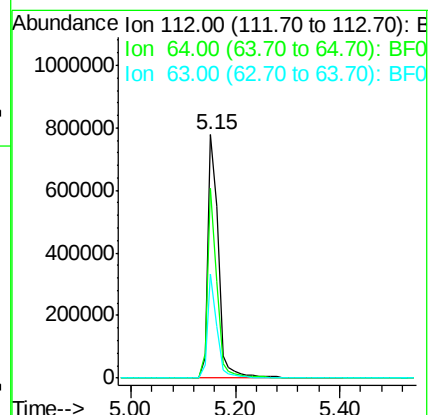
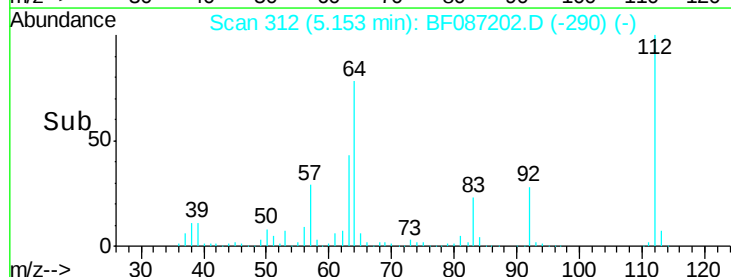
63 42.8 25.7 38.5#

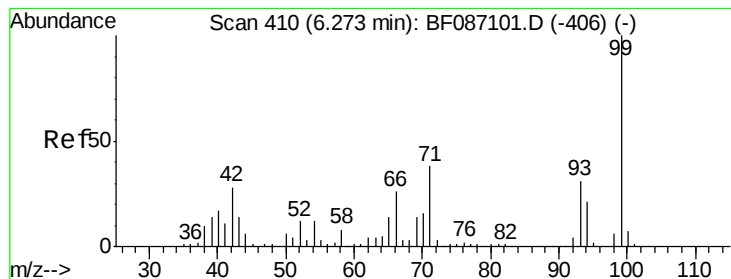


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 120.00 ng

RT: 6.24 min Scan# 407

Delta R.T. -0.05 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C51(0-15FT)

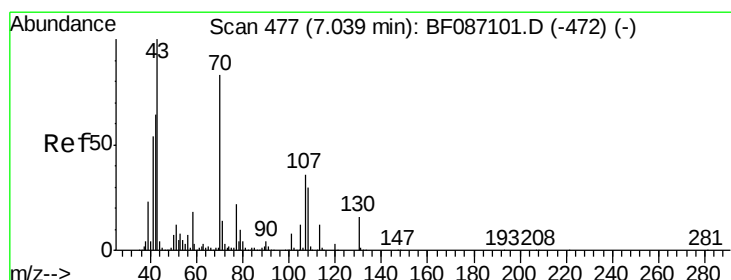
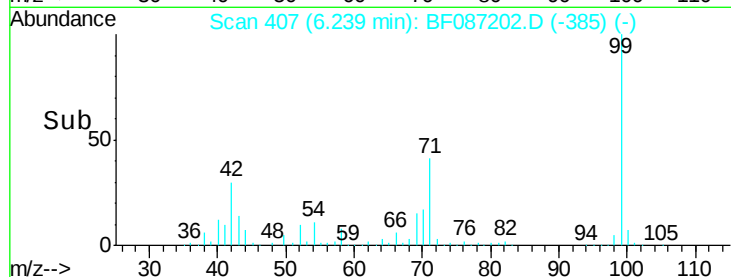
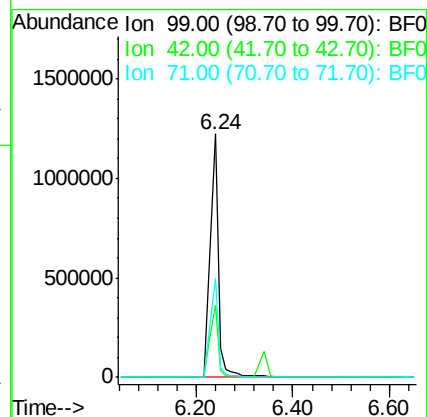
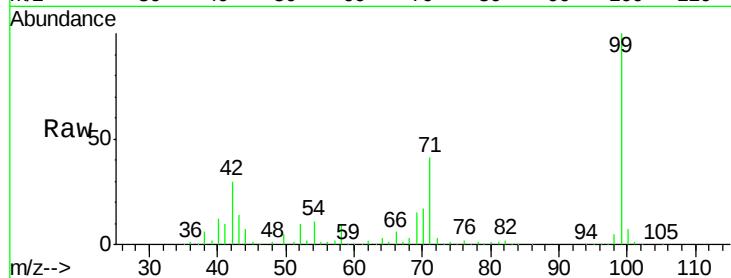
Tgt Ion: 99 Resp: 1423520

Ion Ratio Lower Upper

99 100

42 29.6 13.6 20.4#

71 40.6 24.6 36.8#



#19

n-Nitroso-di-n-propylamine

Concen: 14.51 ng

RT: 7.14 min Scan# 486

Delta R.T. 0.09 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

Tgt Ion: 70 Resp: 130861

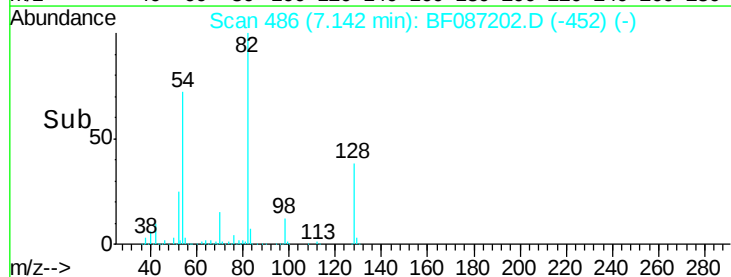
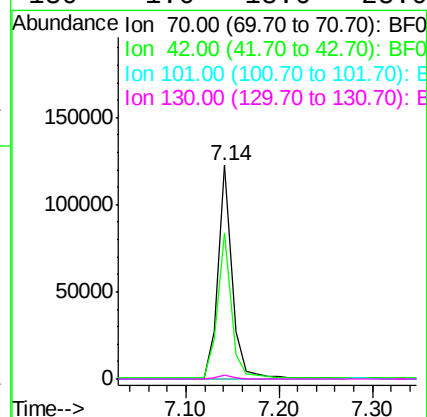
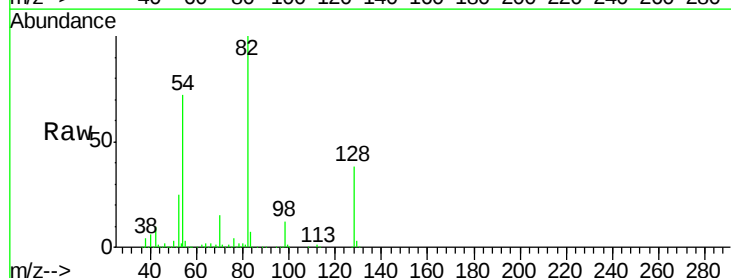
Ion Ratio Lower Upper

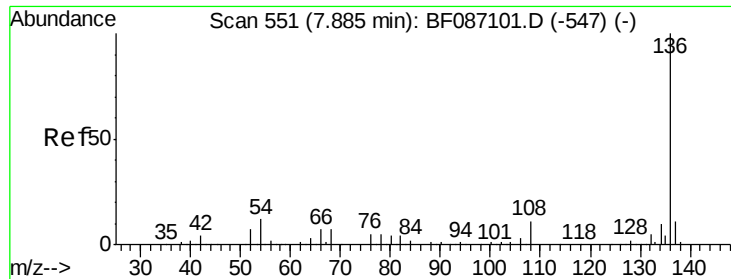
70 100

42 68.3 43.1 64.7#

101 0.0 8.1 12.1#

130 1.6 18.6 28.0#

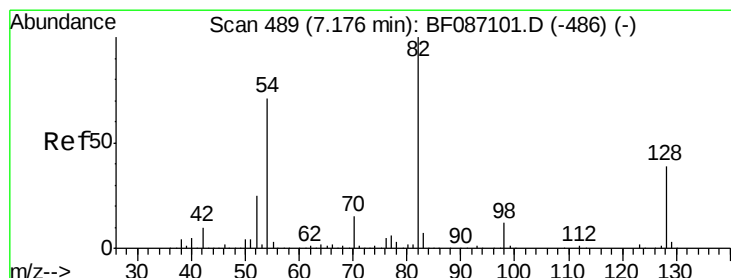
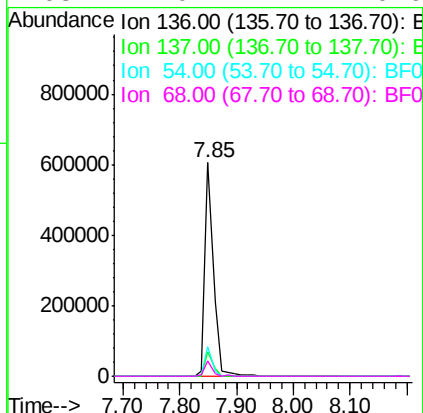
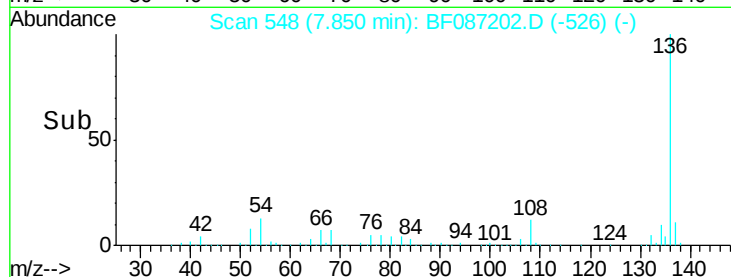
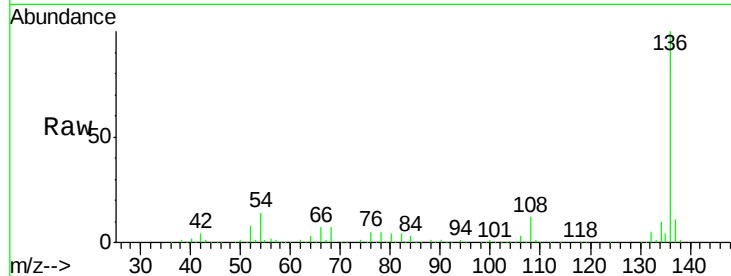




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.85 min Scan# 548
Delta R.T. -0.05 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

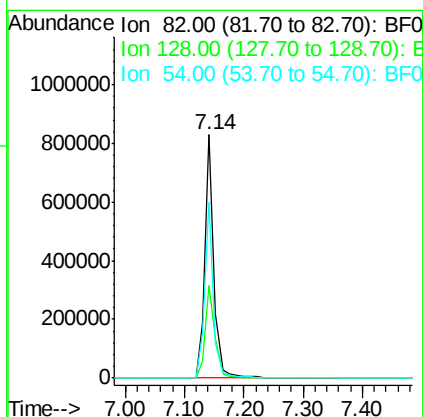
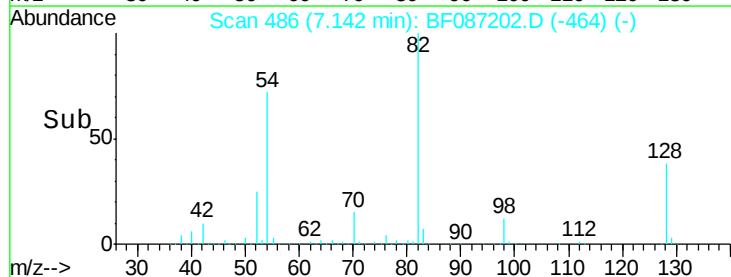
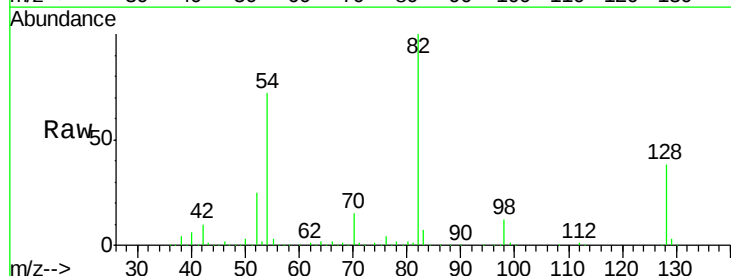
Instrument :
BNA_F
ClientSampleId :
FB-BWR-BB-R10-C51(0-15FT)

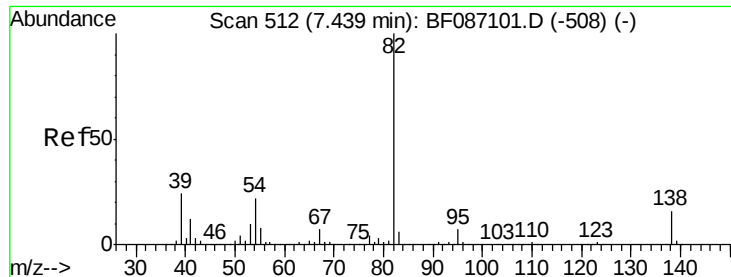
Tgt Ion:	136	Resp:	605274
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	13.6	5.0	7.4#
68	7.0	4.4	6.6#



#23
Nitrobenzene-d5
Concen: 75.15 ng
RT: 7.14 min Scan# 486
Delta R.T. -0.05 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

Tgt Ion:	82	Resp:	912706
Ion	Ratio	Lower	Upper
82	100		
128	38.0	40.6	61.0#
54	72.3	38.1	57.1#





#25

Isophorone

Concen: 34.62 ng

RT: 7.14 min Scan# 486

Delta R.T. -0.31 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C51(0-15FT)

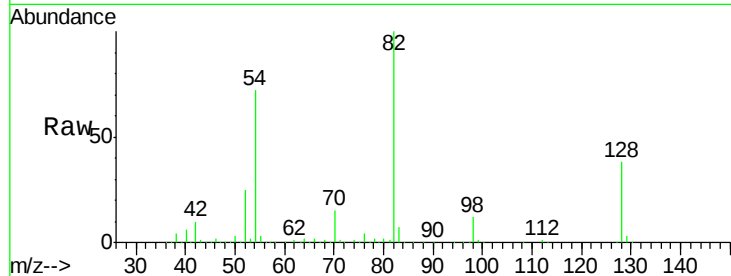
Tgt Ion: 82 Resp: 769695

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

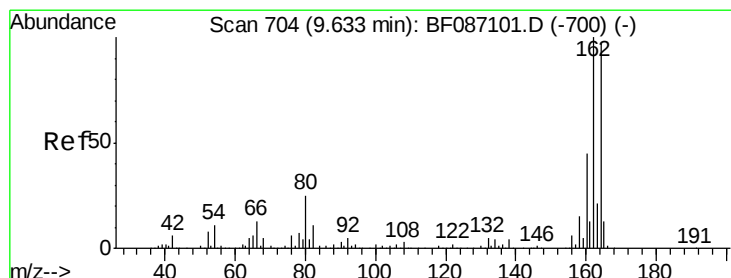
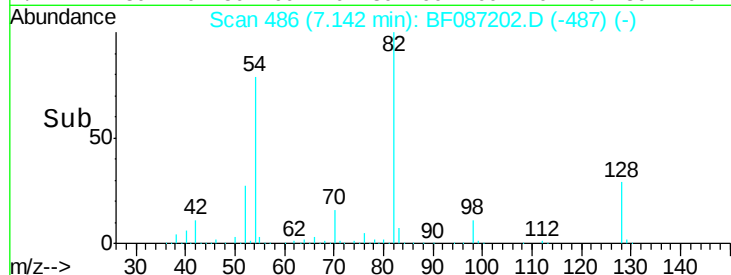
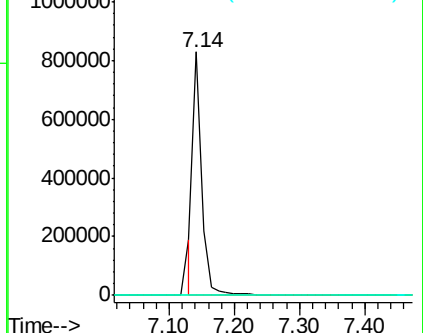
138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.60 min Scan# 701

Delta R.T. -0.05 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

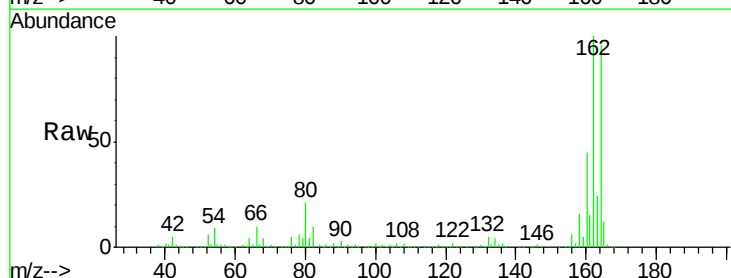
Tgt Ion: 164 Resp: 268601

Ion Ratio Lower Upper

164 100

162 104.5 82.8 124.2

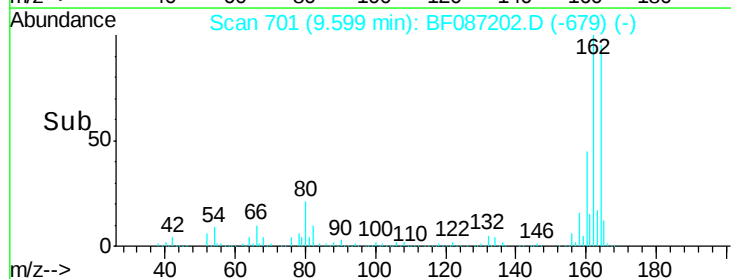
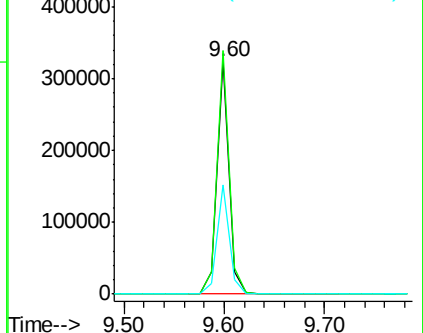
160 47.1 36.9 55.3

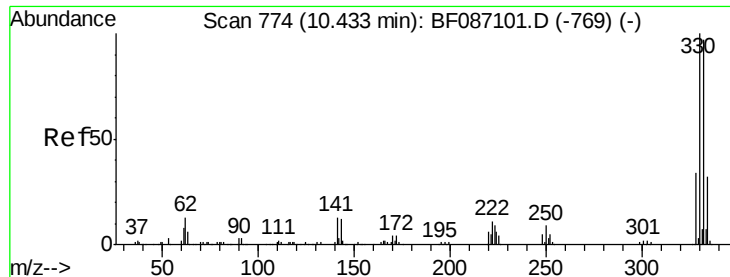


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

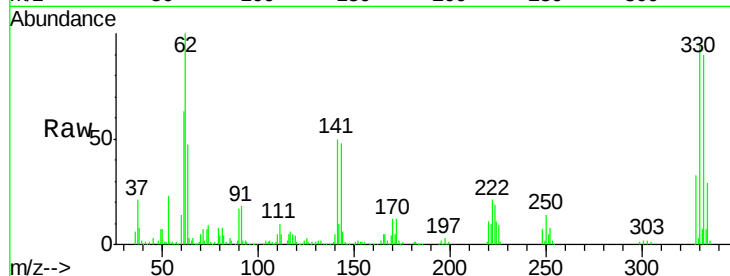




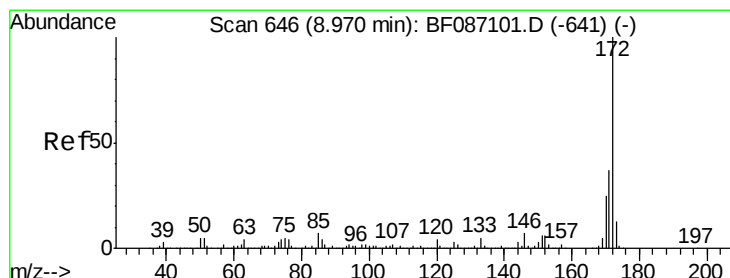
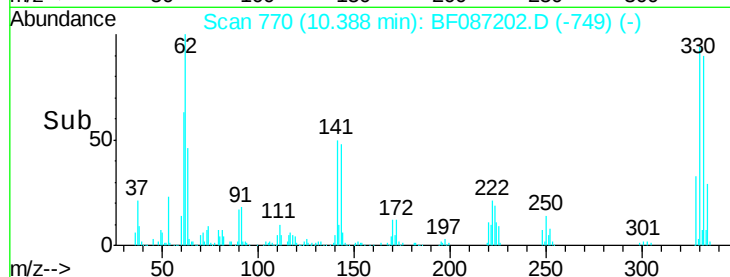
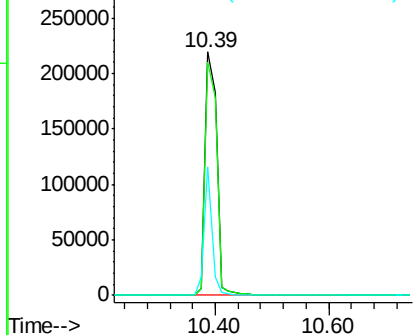
#41
 2,4,6-Tribromophenol
 Concen: 99.42 ng
 RT: 10.39 min Scan# 770
 Delta R.T. -0.06 min
 Lab File: BF087202.D
 Acq: 19 May 2016 22:33

Instrument :
 BNA_F
 ClientSampleId :
 FB-BWR-BB-R10-C51(0-15FT)

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.7	79.0	118.4
141	36.5	31.2	46.8

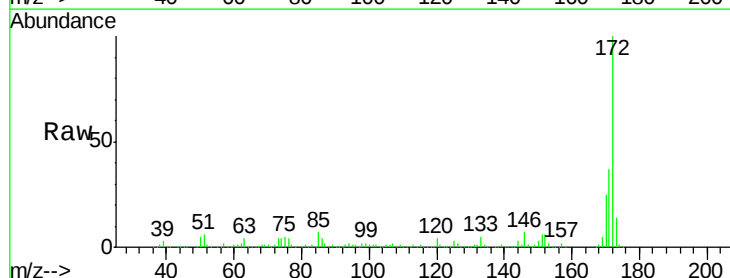


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

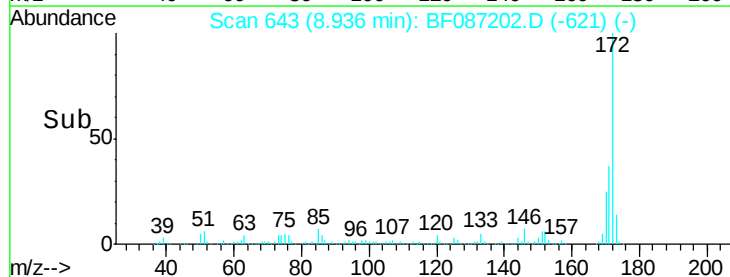
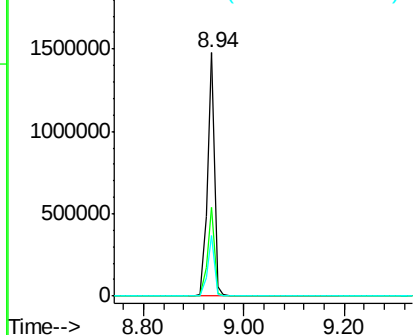


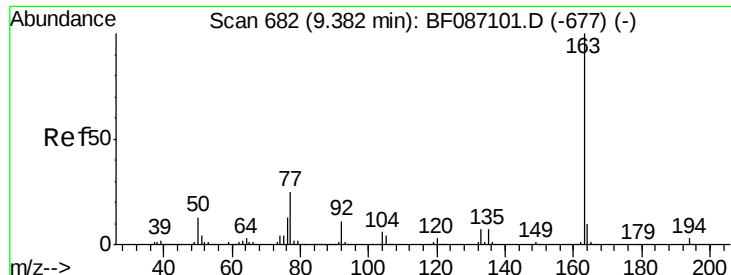
#44
 2-Fluorobiphenyl
 Concen: 87.72 ng
 RT: 8.94 min Scan# 643
 Delta R.T. -0.05 min
 Lab File: BF087202.D
 Acq: 19 May 2016 22:33

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.0	43.6
170	24.7	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

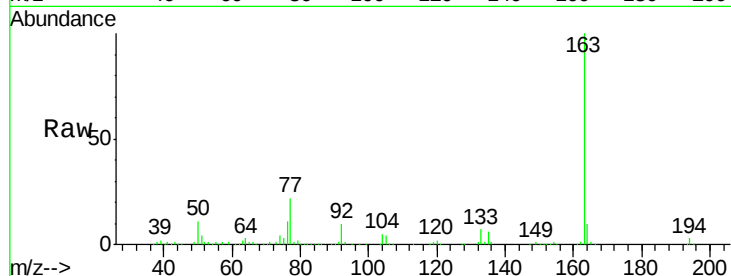




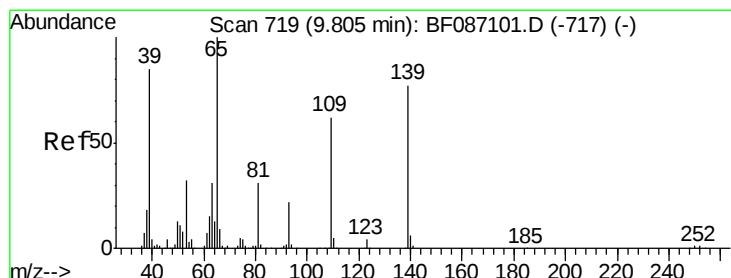
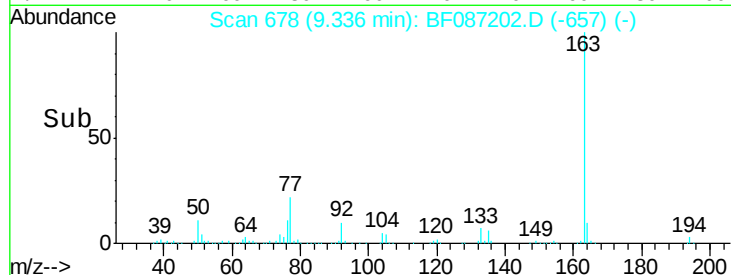
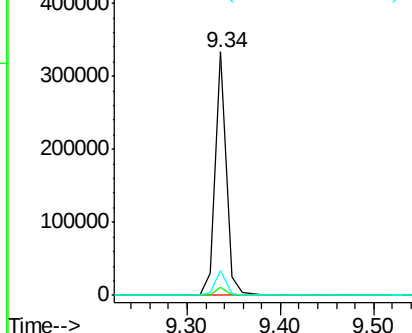
#49
Dimethylphthalate
Concen: 13.28 ng
RT: 9.34 min Scan# 678
Delta R.T. -0.06 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

Instrument :
BNA_F
ClientSampleId :
FB-BWR-BB-R10-C51(0-15FT)

Tgt Ion:163 Resp: 272207
Ion Ratio Lower Upper
163 100
194 3.2 2.6 4.0
164 10.0 8.2 12.4

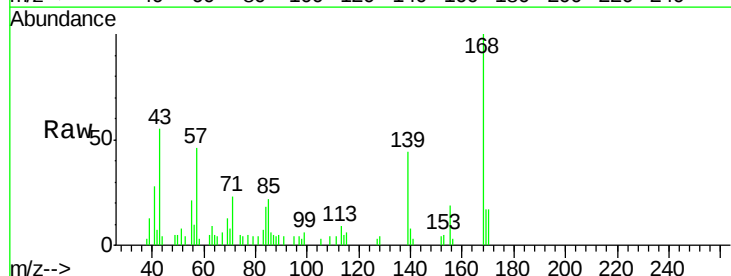


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

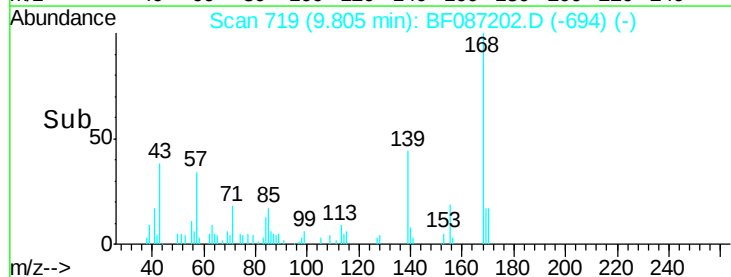
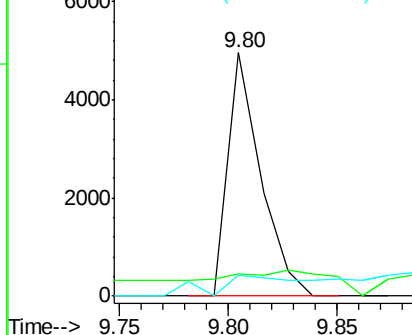


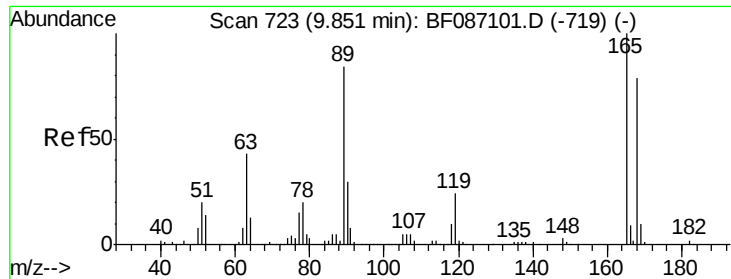
#55
4-Nitrophenol
Concen: 3.75 ng
RT: 9.80 min Scan# 719
Delta R.T. -0.01 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

Tgt Ion:139 Resp: 5185
Ion Ratio Lower Upper
139 100
109 9.1 36.9 76.9#
65 8.3 64.0 104.0#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 6.19 ng

RT: 9.60 min Scan# 701

Delta R.T. -0.26 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C51(0-15FT)

Tgt Ion:165 Resp: 35286

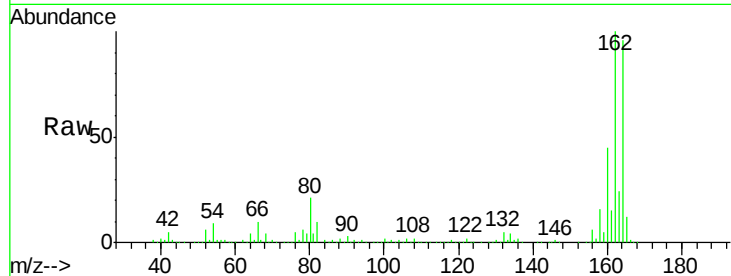
Ion Ratio Lower Upper

165 100

63 2.1 44.3 66.5#

89 1.9 70.0 105.0#

182 0.0 1.8 2.6#

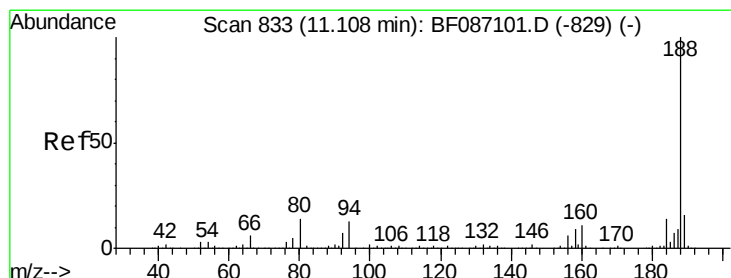
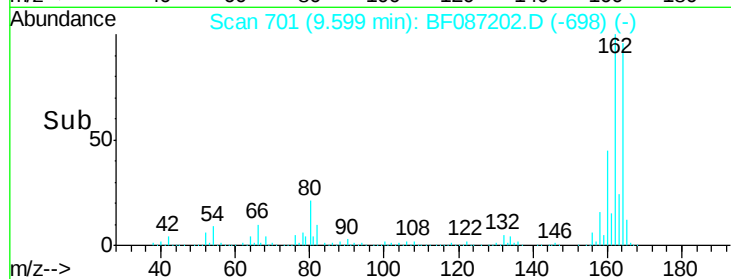
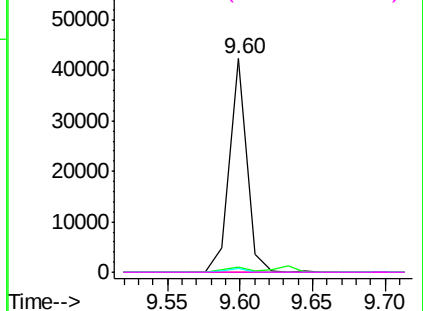


Abundance Ion 165.00 (164.70 to 165.70): E

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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.05 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

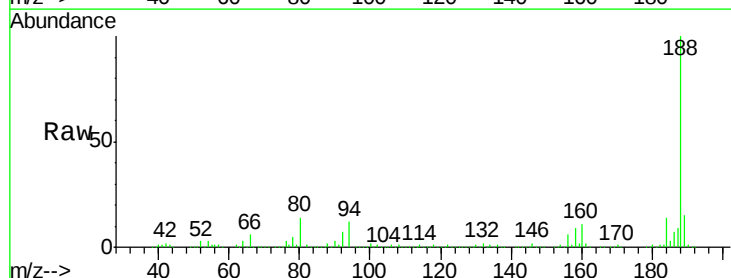
Tgt Ion:188 Resp: 412063

Ion Ratio Lower Upper

188 100

94 12.1 6.8 10.2#

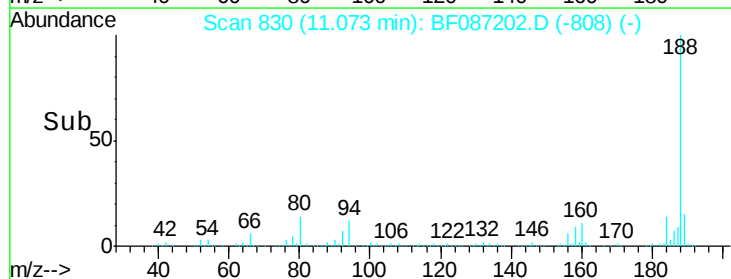
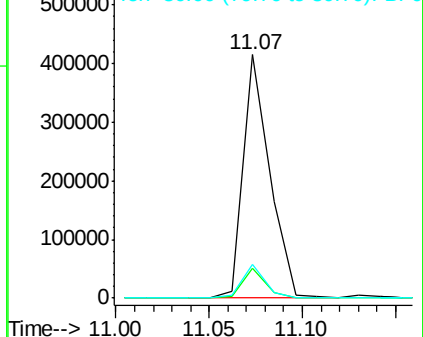
80 13.7 7.1 10.7#

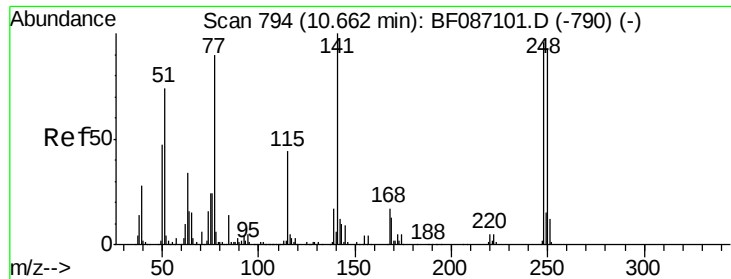


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

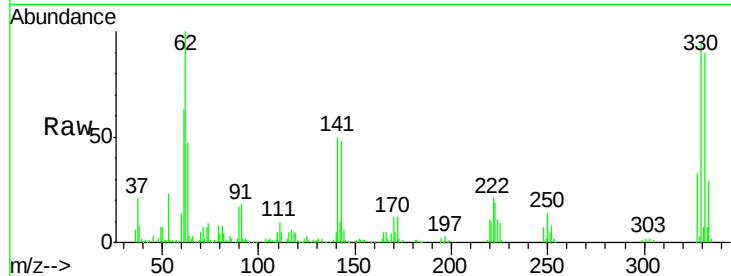




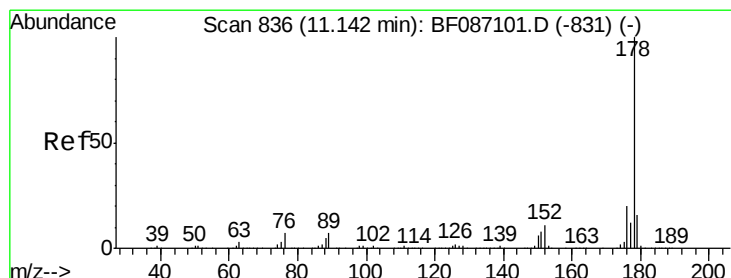
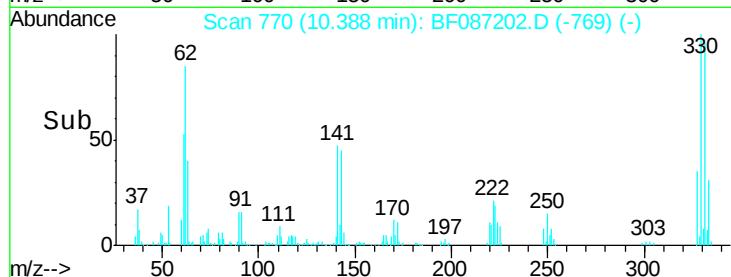
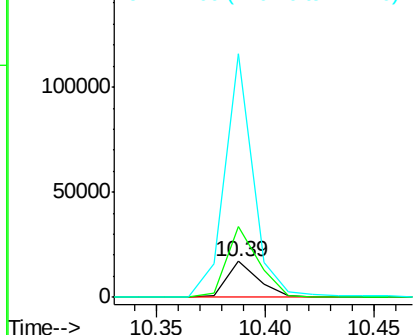
#66
4-Bromophenyl-phenylether
Concen: 4.10 ng
RT: 10.39 min Scan# 770
Delta R.T. -0.29 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

Instrument :
BNA_F
ClientSampleId :
FB-BWR-BB-R10-C51(0-15FT)

Tgt Ion:248 Resp: 17364
Ion Ratio Lower Upper
248 100
250 194.6 78.6 117.8#
141 673.9 76.0 114.0#

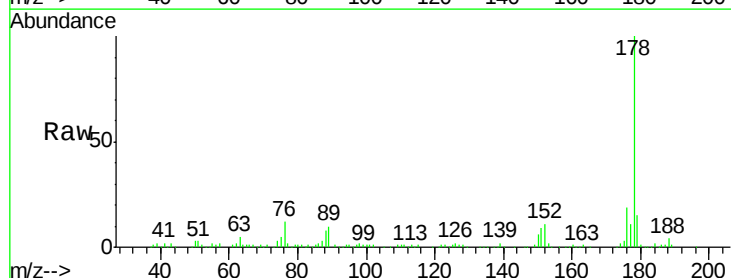


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

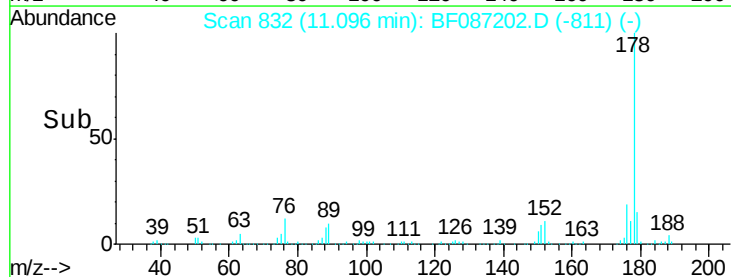
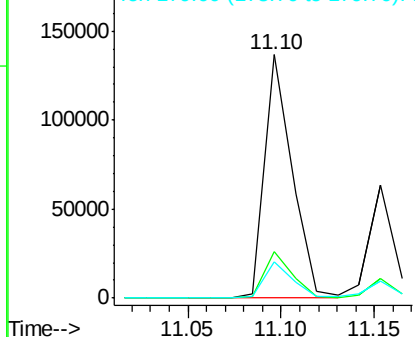


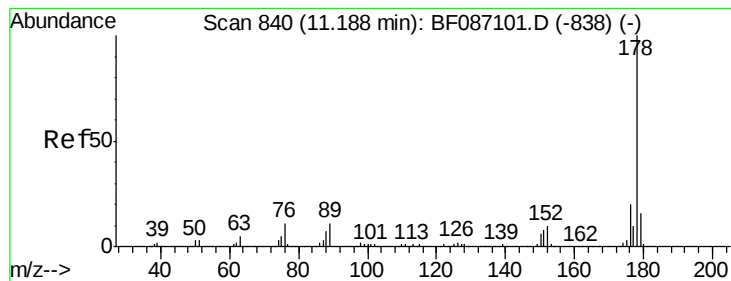
#70
Phenanthrene
Concen: 6.26 ng
RT: 11.10 min Scan# 832
Delta R.T. -0.06 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

Tgt Ion:178 Resp: 139829
Ion Ratio Lower Upper
178 100
176 18.9 16.0 24.0
179 14.9 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 2.59 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.05 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C51(0-15FT)

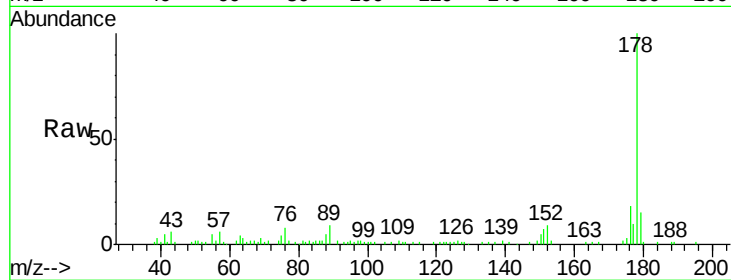
Tgt Ion:178 Resp: 58504

Ion Ratio Lower Upper

178 100

176 17.9 15.6 23.4

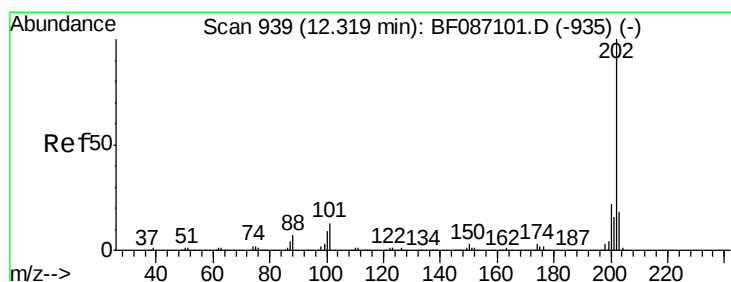
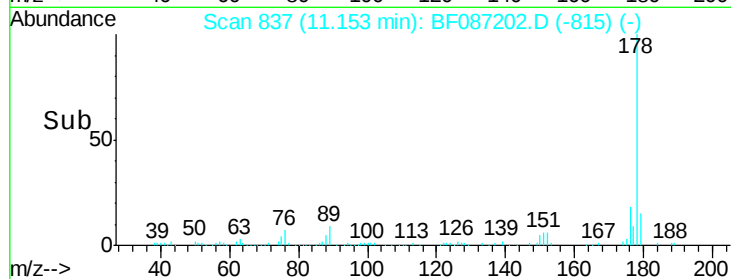
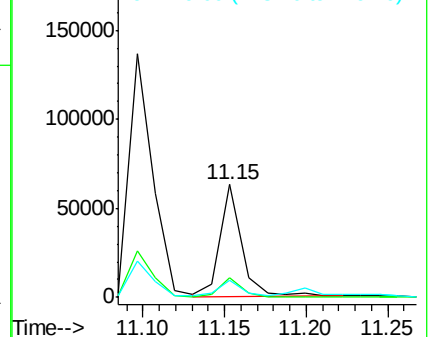
179 15.3 12.7 19.1



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



#74

Fluoranthene

Concen: 13.73 ng

RT: 12.28 min Scan# 936

Delta R.T. -0.05 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

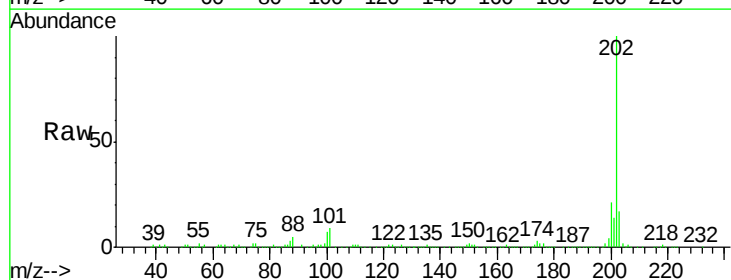
Tgt Ion:202 Resp: 307485

Ion Ratio Lower Upper

202 100

101 8.8 0.0 35.4

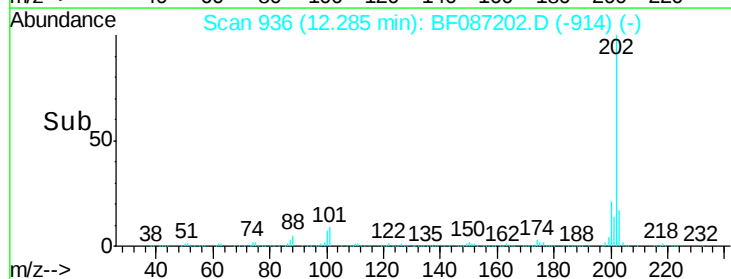
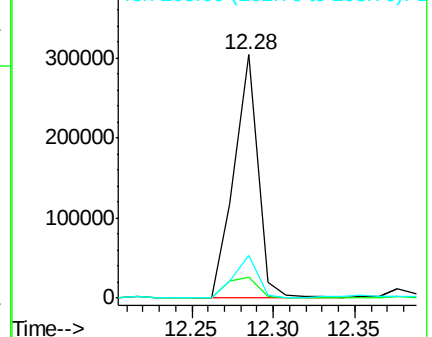
203 17.4 0.0 38.1

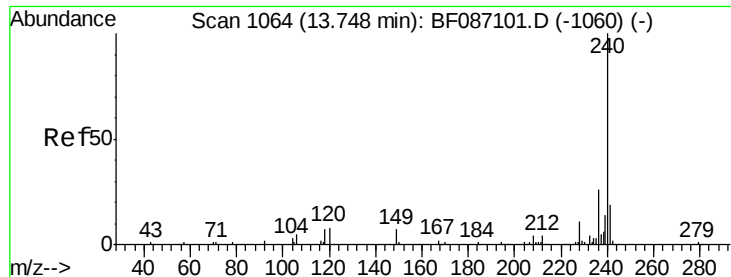


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.70 min Scan# 1060

Delta R.T. -0.06 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C51(0-15FT)

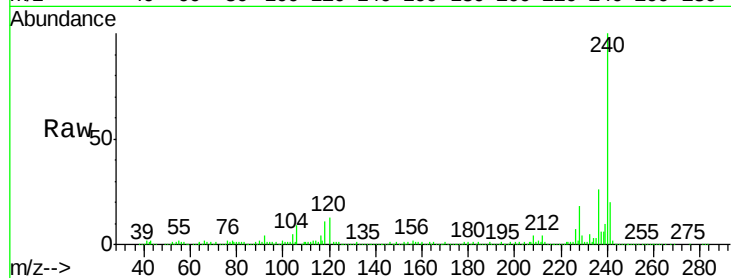
Tgt Ion:240 Resp: 307622

Ion Ratio Lower Upper

240 100

120 13.0 11.2 16.8

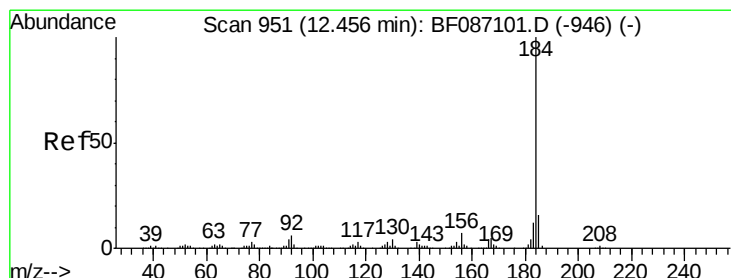
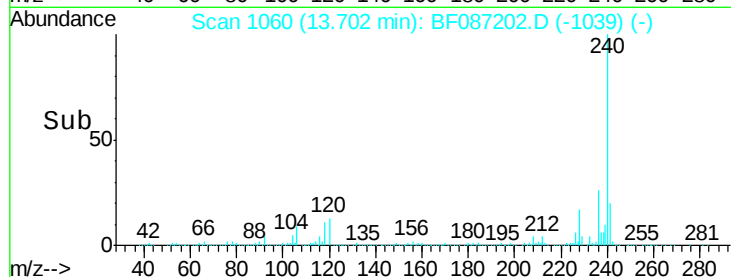
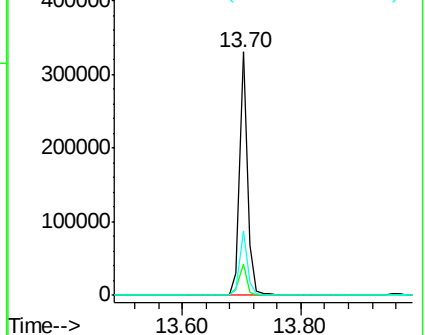
236 26.5 21.2 31.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 2.31 ng

RT: 12.66 min Scan# 969

Delta R.T. 0.20 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

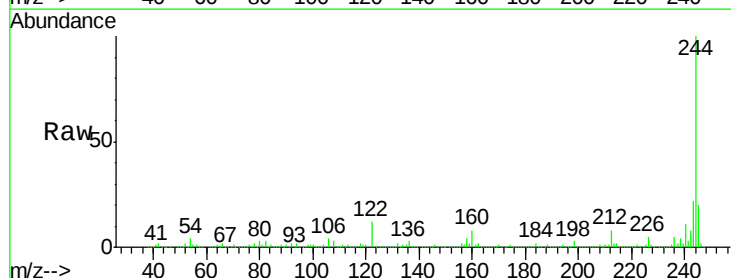
Tgt Ion:184 Resp: 15562

Ion Ratio Lower Upper

184 100

185 20.5 13.6 20.4#

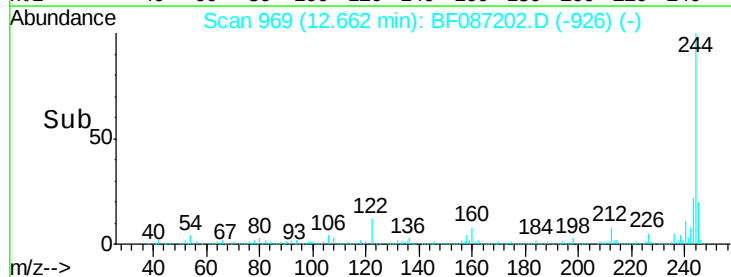
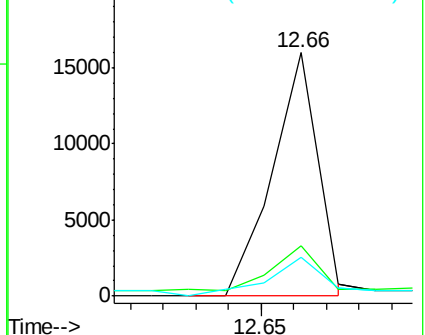
183 15.8 9.8 14.6#

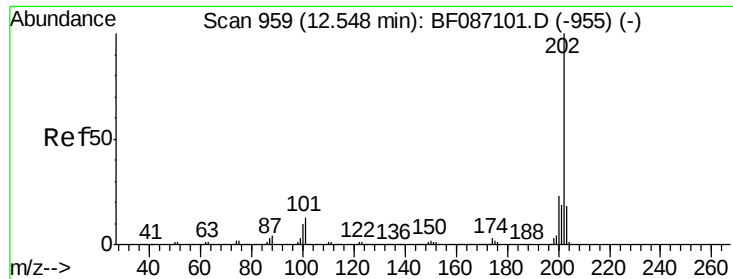


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

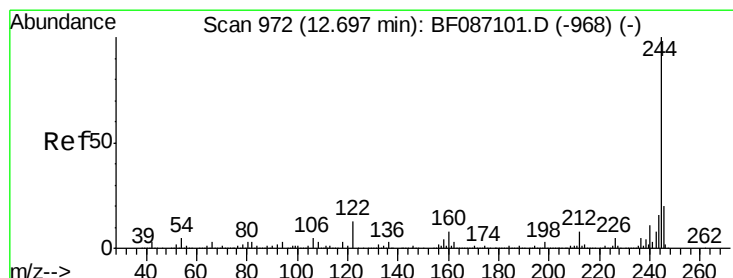
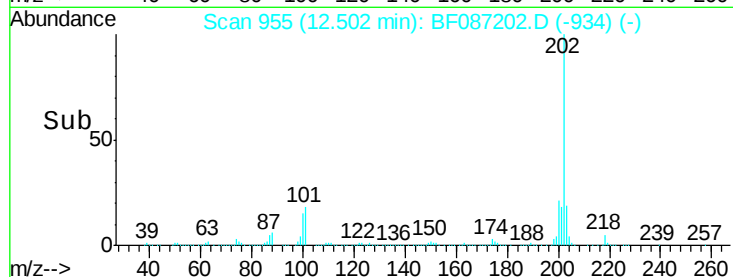
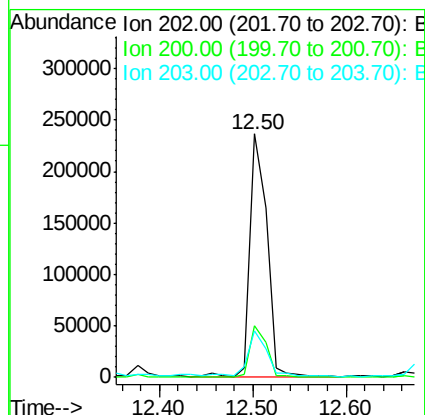
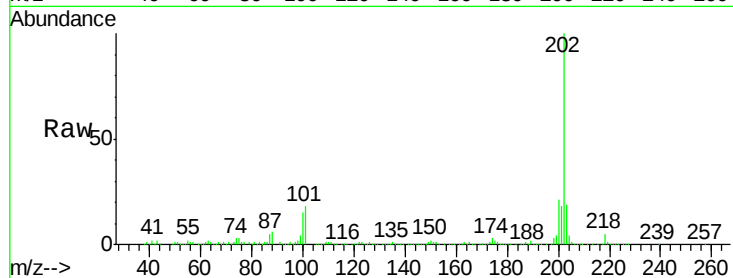




#77
 Pyrene
 Concen: 13.25 ng
 RT: 12.50 min Scan# 955
 Delta R.T. -0.06 min
 Lab File: BF087202.D
 Acq: 19 May 2016 22:33

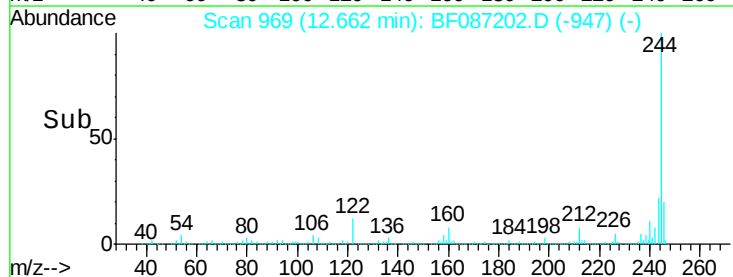
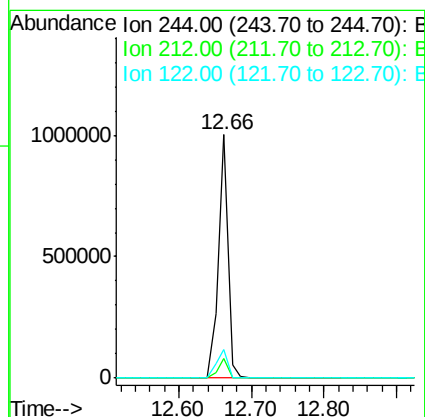
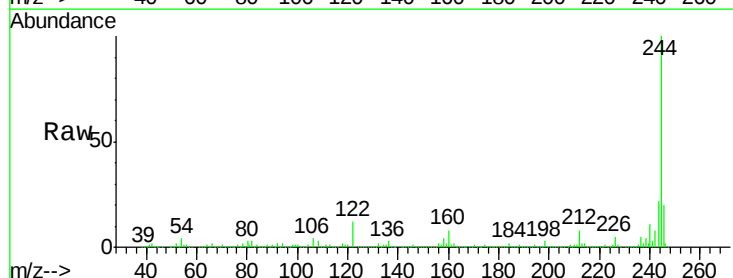
Instrument :
 BNA_F
 ClientSampleId :
 FB-BWR-BB-R10-C51(0-15FT)

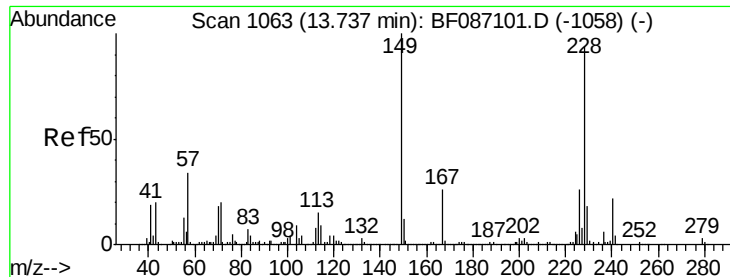
Tgt Ion: 202 Resp: 294389
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.7 26.5
 203 19.4 14.2 21.4



#78
 Terphenyl-d14
 Concen: 67.81 ng
 RT: 12.66 min Scan# 969
 Delta R.T. -0.05 min
 Lab File: BF087202.D
 Acq: 19 May 2016 22:33

Tgt Ion: 244 Resp: 922183
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.2 9.2
 122 11.7 12.0 18.0#





#80

Benzo(a)anthracene

Concen: 10.75 ng

RT: 13.69 min Scan# 1059

Delta R.T. -0.06 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

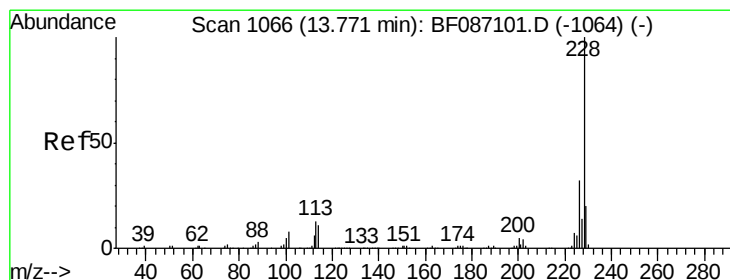
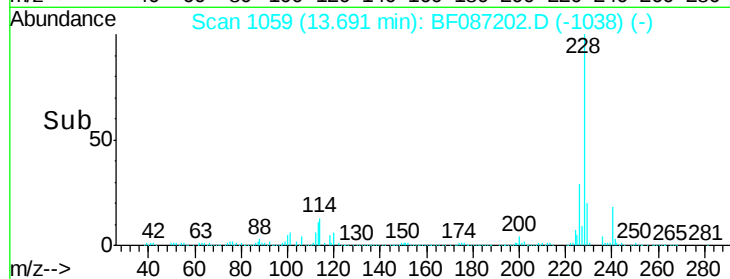
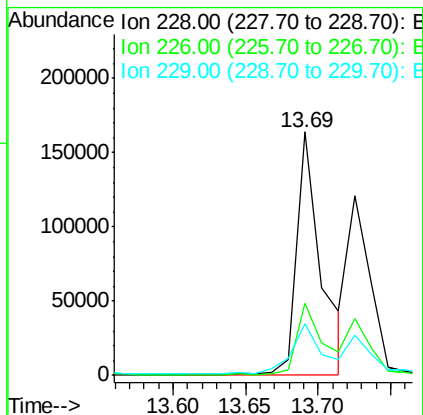
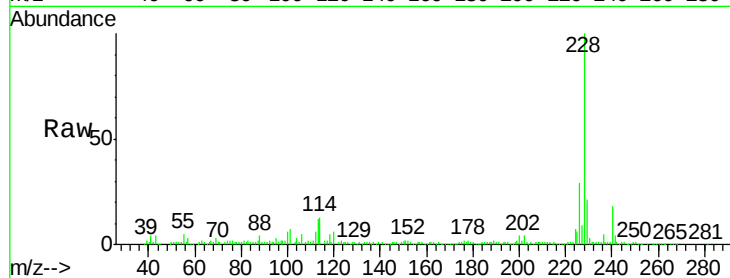
Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C51(0-15FT)

Tgt Ion:	228	Resp:	191206
Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.5	33.7
229	21.0	16.6	25.0



#82

Chrysene

Concen: 11.11 ng

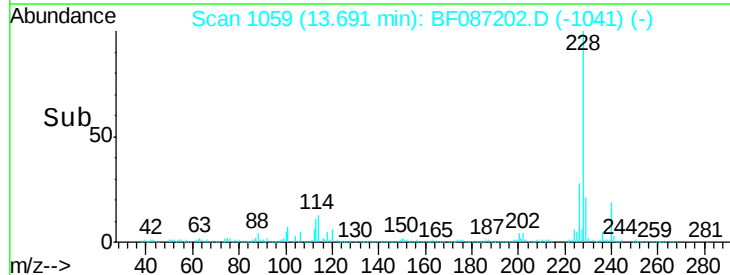
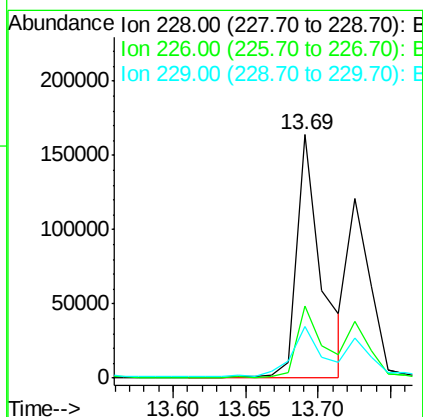
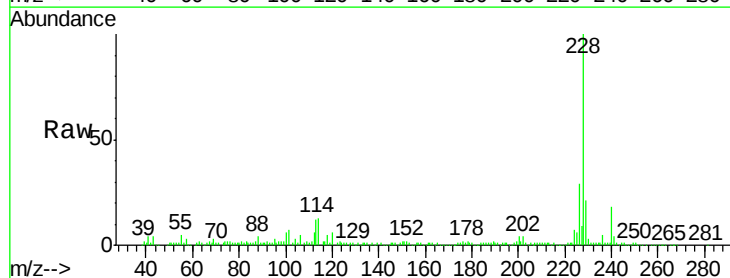
RT: 13.69 min Scan# 1059

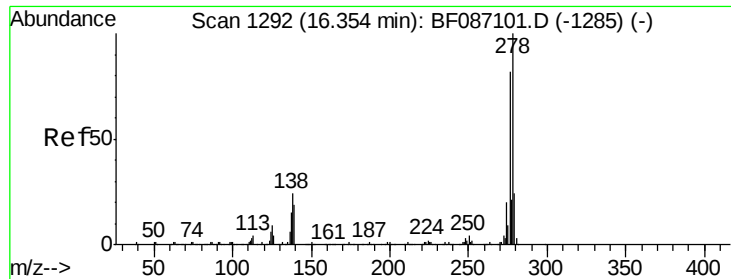
Delta R.T. -0.09 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

Tgt Ion:	228	Resp:	191206
Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.4	36.6
229	21.0	15.8	23.8





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.59 ng

RT: 16.29 min Scan# 1286

Delta R.T. -0.08 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C51(0-15FT)

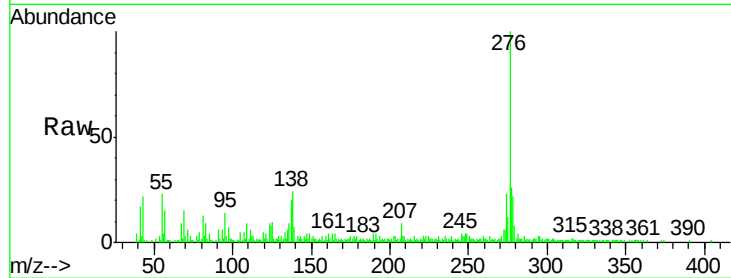
Tgt Ion:276 Resp: 84515

Ion Ratio Lower Upper

276 100

138 24.2 25.6 38.4#

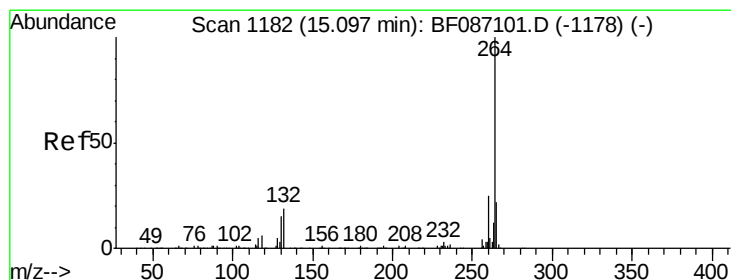
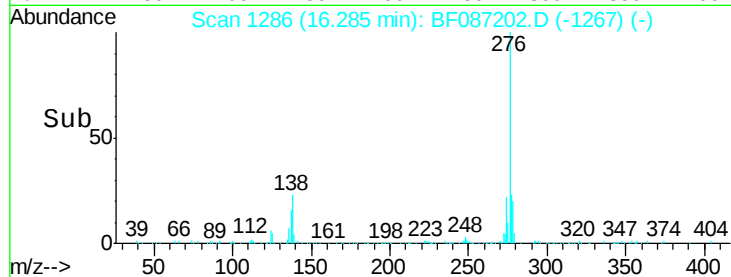
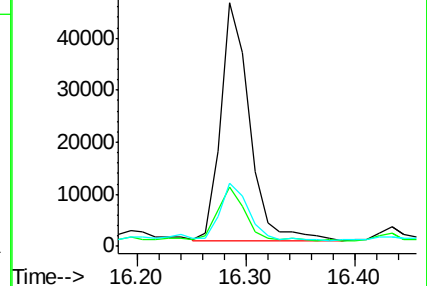
277 26.0 20.5 30.7



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

Perylene-d12

Concen: 20.00 ng

RT: 15.06 min Scan# 1179

Delta R.T. -0.05 min

Lab File: BF087202.D

Acq: 19 May 2016 22:33

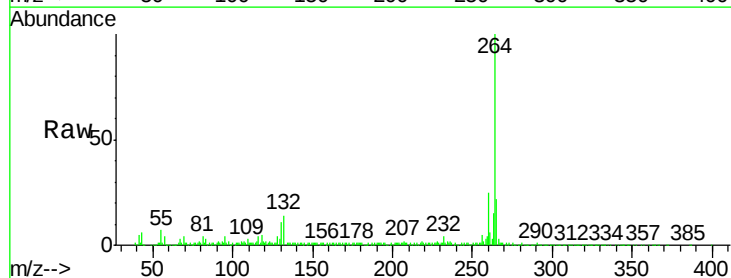
Tgt Ion:264 Resp: 293617

Ion Ratio Lower Upper

264 100

260 25.2 19.5 29.3

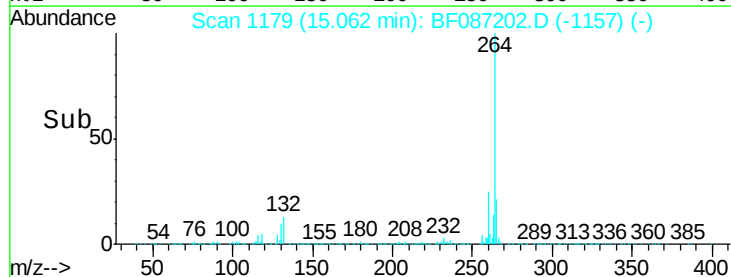
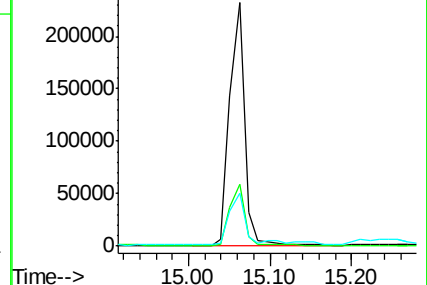
265 21.7 17.3 25.9

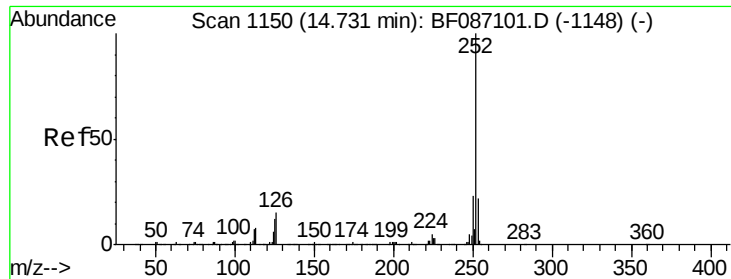


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

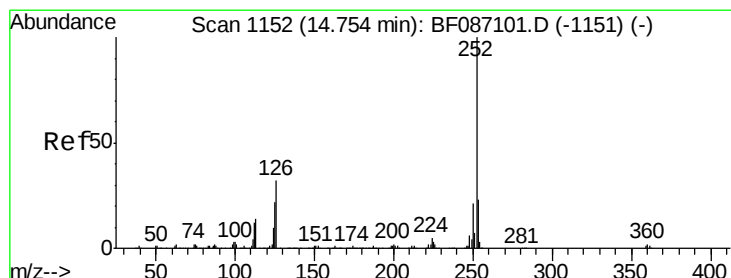
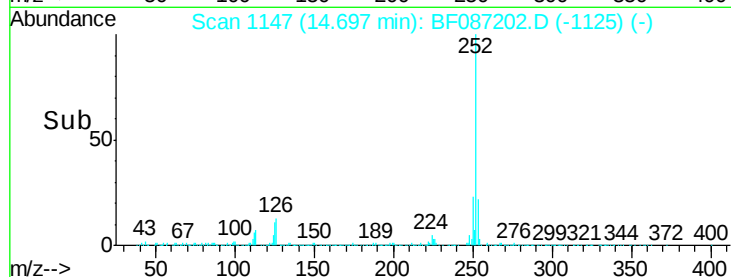
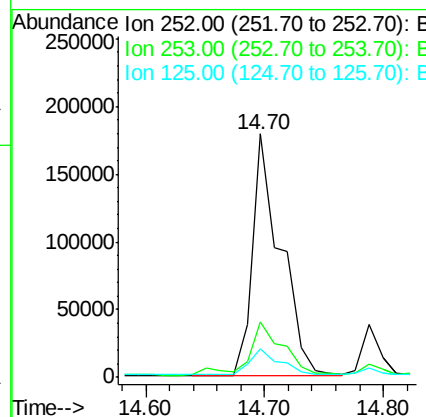
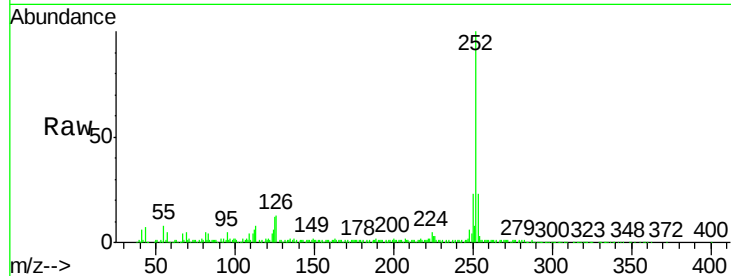




#87
Benzo(b)fluoranthene
Concen: 15.25 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.05 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

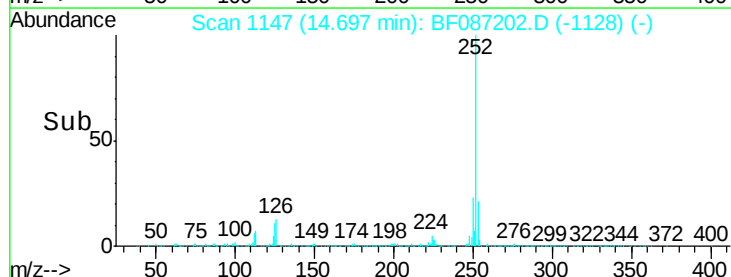
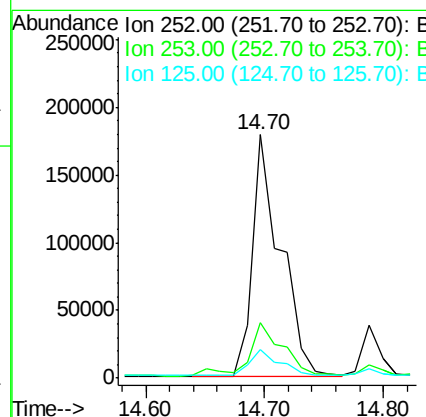
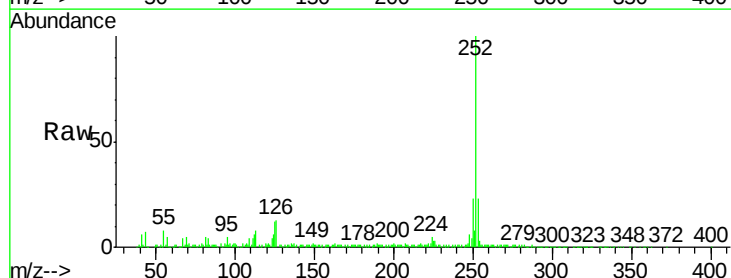
Instrument :
BNA_F
ClientSampleId :
FB-BWR-BB-R10-C51(0-15FT)

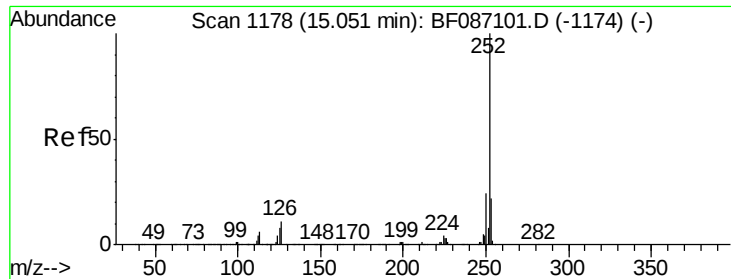
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.6
125	11.7	11.4	17.0



#88
Benzo(k)fluoranthene
Concen: 20.48 ng
RT: 14.70 min Scan# 1147
Delta R.T. -0.08 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.6
125	11.7	9.1	13.7

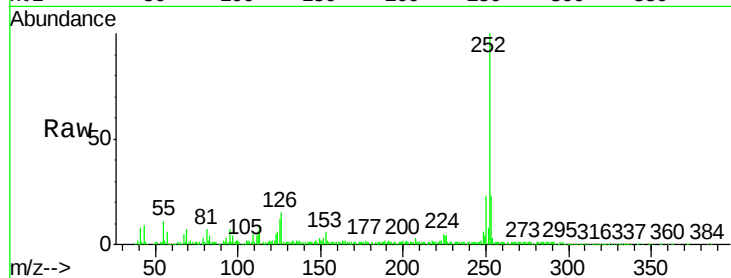




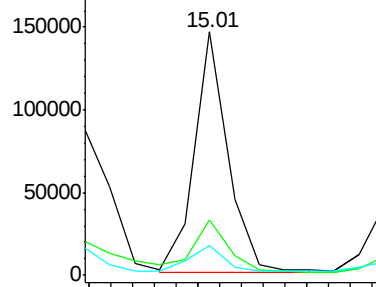
#89
Benzo(a)pyrene
Concen: 9.61 ng
RT: 15.01 min Scan# 1174
Delta R.T. -0.06 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

Instrument :
BNA_F
ClientSampleId :
FB-BWR-BB-R10-C51(0-15FT)

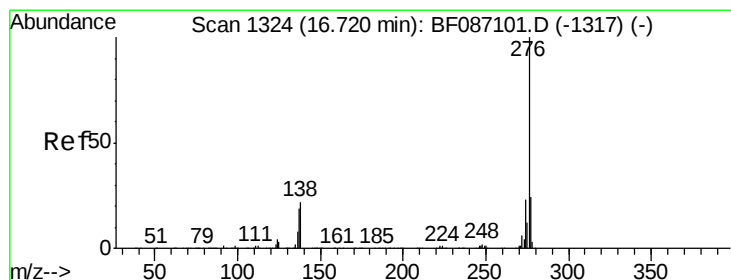
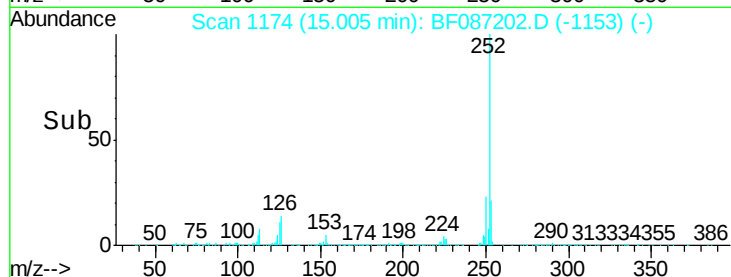
Tgt Ion:	252	Resp:	156439
Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.2	25.8
125	12.2	9.0	13.6



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

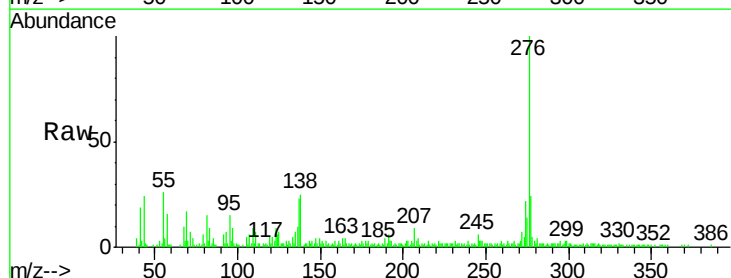


Time--> 14.95 15.00 15.05

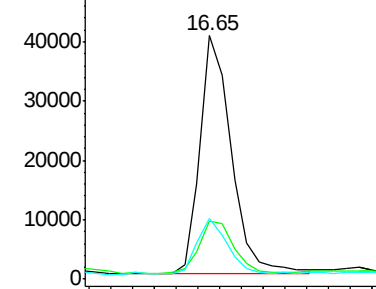


#91
Benzo(g,h,i)perylene
Concen: 5.80 ng
RT: 16.65 min Scan# 1318
Delta R.T. -0.09 min
Lab File: BF087202.D
Acq: 19 May 2016 22:33

Tgt Ion:	276	Resp:	80357
Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.6	29.4
138	25.0	23.6	35.4



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E



Time--> 16.60 16.70

