

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120915\
 Data File : BF083680.D
 Acq On : 10 Dec 2015 12:13
 Operator : UM/IZ
 Sample : G4579-13DL 100X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SHED-SOUTH-WALLDL

Quant Time: Dec 10 12:57:20 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 09 00:23:35 2015
 Response via : Initial Calibration

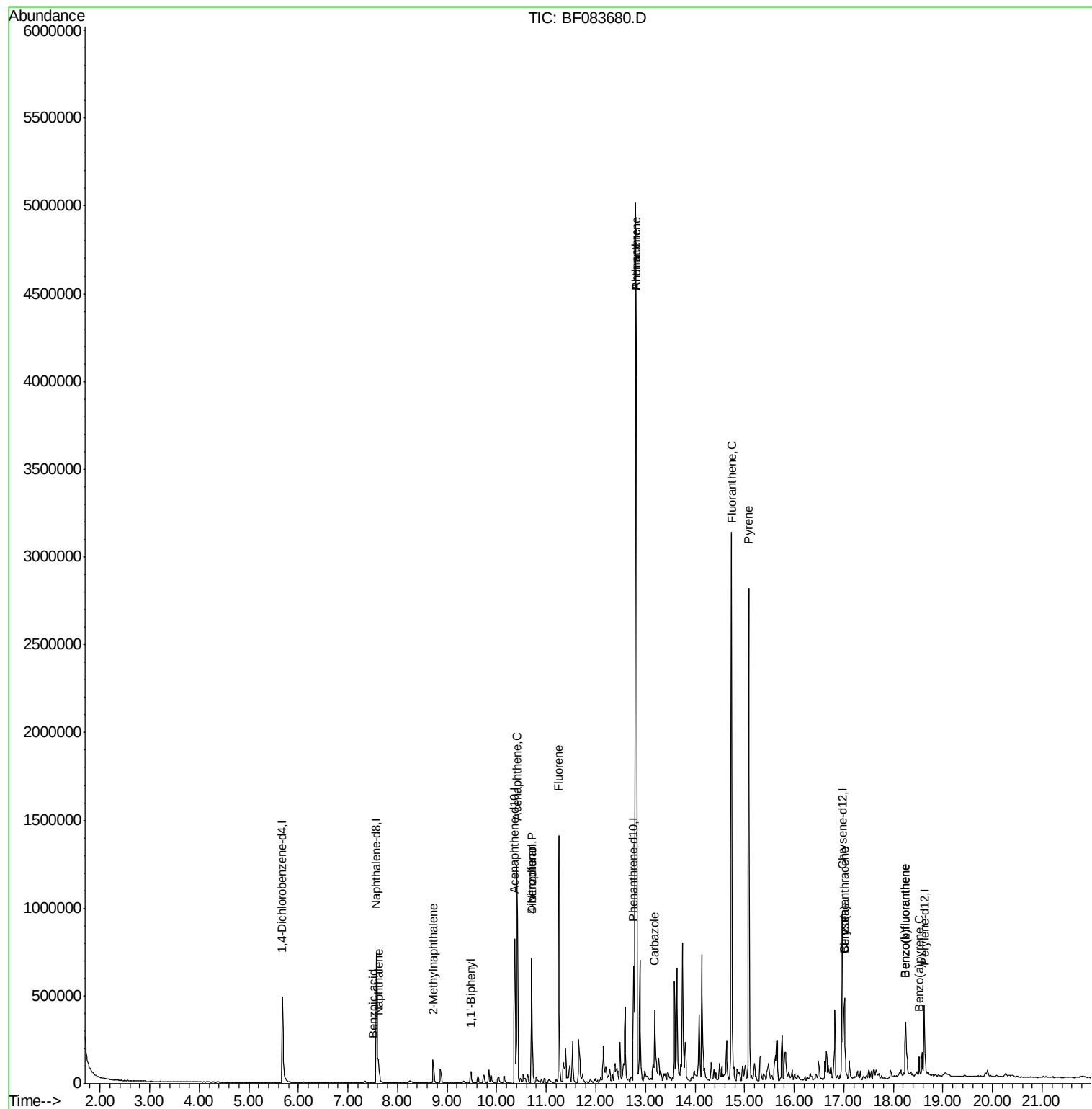
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	130010	20.00	ng	-0.02
21) Naphthalene-d8	7.57	136	498163	20.00	ng	-0.03
38) Acenaphthene-d10	10.36	164	227800	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	357839	20.00	ng	-0.02
75) Chrysene-d12	16.97	240	309720	20.00	ng	-0.02
86) Perylene-d12	18.63	264	241880	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	0.00	99	0	0.00	ng	
23) Nitrobenzene-d5	6.70	82	224	0.02	ng	0.17
41) 2,4,6-Tribromophenol	11.72	330	213	0.10	ng	0.03
44) 2-Fluorobiphenyl	9.33	172	5382	0.33	ng	-0.01
78) Terphenyl-d14	15.39	244	3806	0.29	ng	-0.02
Target Compounds						
31) Naphthalene	7.62	128	115104	4.36	ng	Qvalue 99
32) Benzoic acid	7.50	122	695	3.16	ng	# 30
37) 2-Methylnaphthalene	8.72	142	64019	3.86	ng	100
45) 1,1'-Biphenyl	9.48	154	43182	2.18	ng	98
51) Acenaphthene	10.41	154	422875	29.97	ng	98
54) Dibenzofuran	10.70	168	428402	21.89	ng	99
55) 4-Nitrophenol	10.70	139	153940	87.87	ng	# 6
57) Fluorene	11.25	166	548927	32.14	ng	99
70) Phenanthrene	12.81	178	3663144	178.17	ng	97
71) Anthracene	12.81	178	3663144	171.99	ng	97
72) Carbazole	13.19	167	285872	15.65	ng	99
74) Fluoranthene	14.74	202	2295926	109.16	ng	98
77) Pyrene	15.08	202	1474940	66.15	ng	# 92
80) Benzo(a)anthracene	17.01	228	320135	17.66	ng	99
82) Chrysene	17.01	228	320135	17.62	ng	97
87) Benzo(b)fluoranthene	18.25	252	225640	16.38	ng	99
88) Benzo(k)fluoranthene	18.25	252	225640	14.87	ng	# 96
89) Benzo(a)pyrene	18.52	252	61268	4.56	ng	98

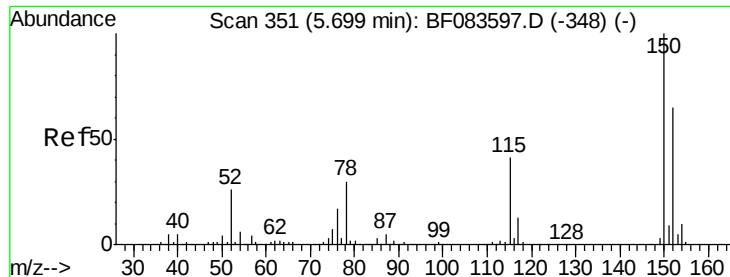
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.68 min Scan# 349

Delta R.T. -0.02 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

Instrument :

BNA_F

ClientSampleId :

SHED-SOUTH-WALLDL

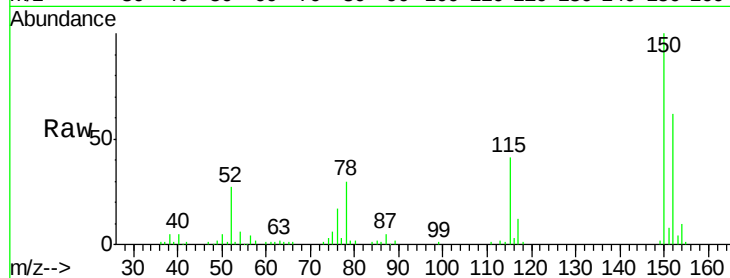
Tgt Ion:152 Resp: 130010

Ion Ratio Lower Upper

152 100

150 160.1 126.5 189.7

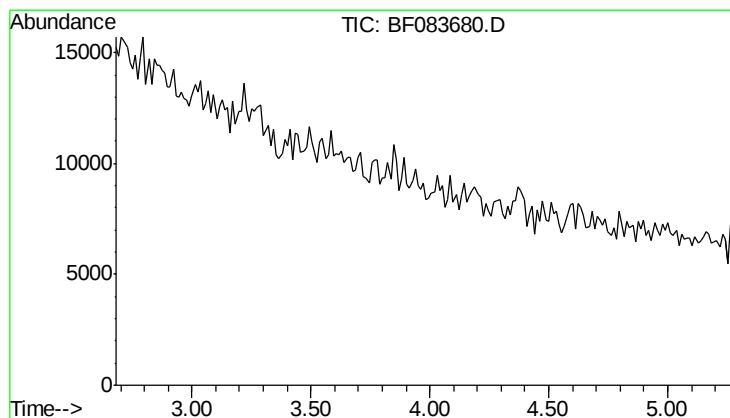
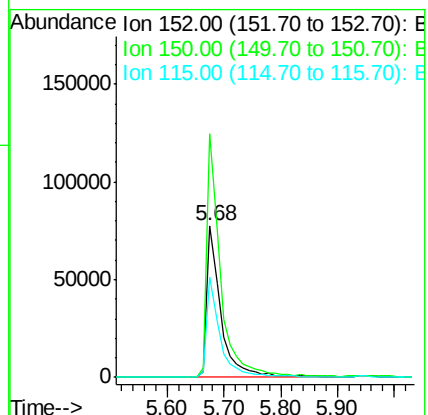
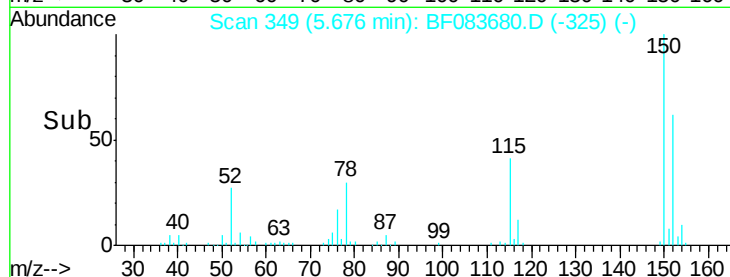
115 65.5 52.3 78.5



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: 0.00 ng

Expected RT: 3.97 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

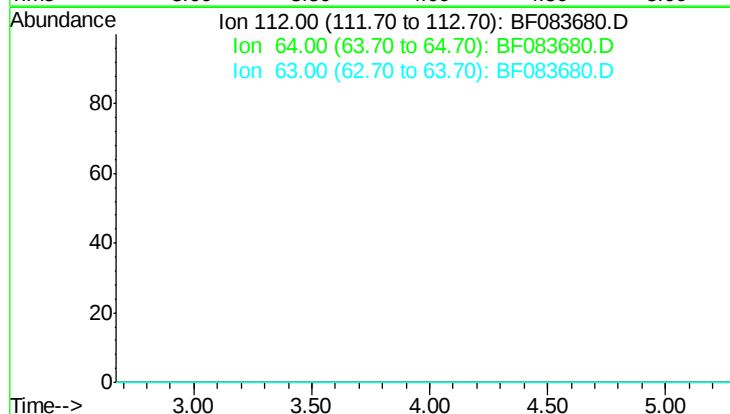
Tgt Ion: 112

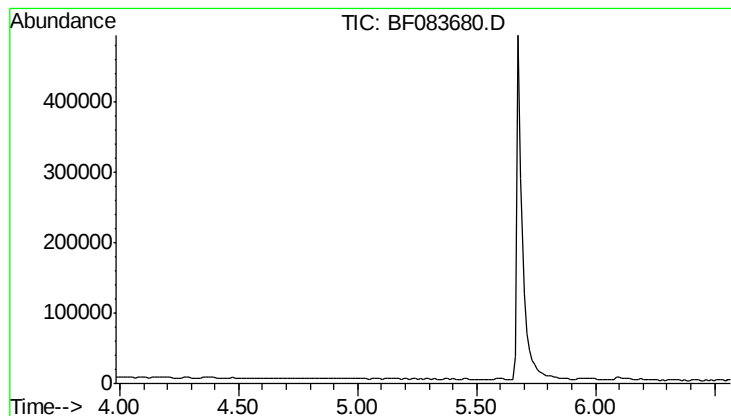
Sig Exp Ratio

112 100

64 63.1

63 32.2

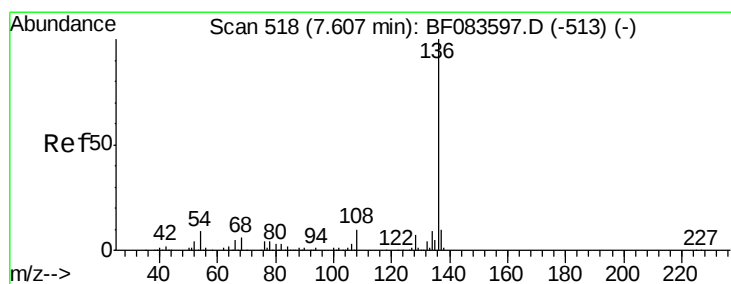
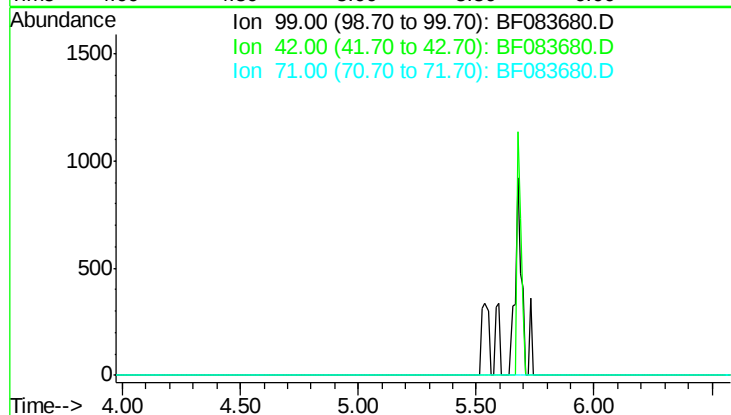




#7
 Phenol-d6
 Concen: 0.00 ng
 Expected RT: 5.28 min
 Lab File: BF083680.D
 Acq: 10 Dec 2015 12:13

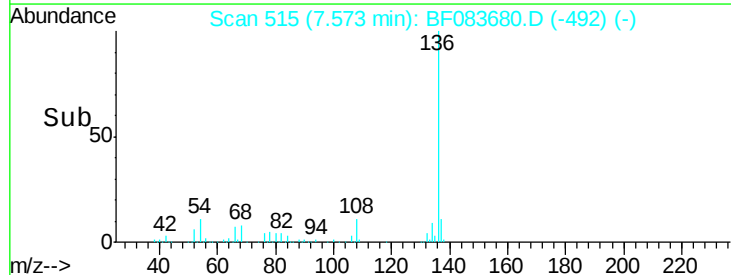
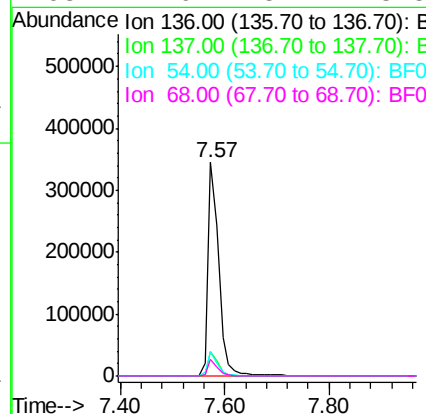
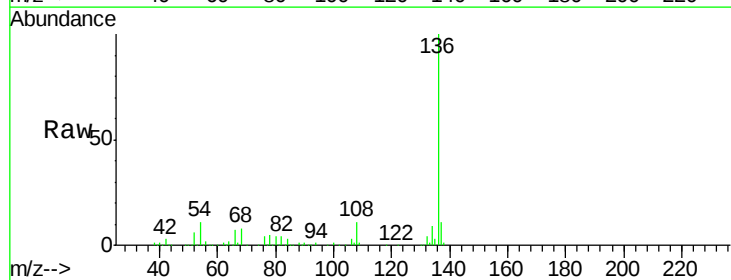
Instrument :
 BNA_F
 ClientSampleId :
 SHED-SOUTH-WALLDL

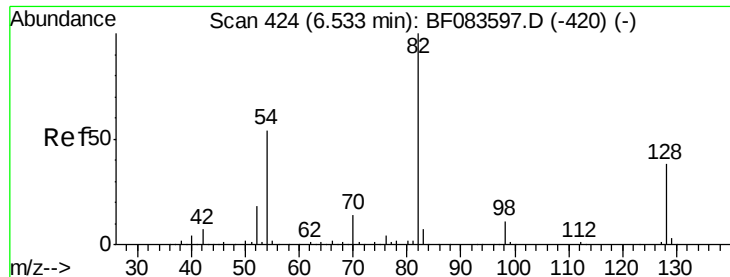
Tgt Ion: 99
 Sig Exp Ratio
 99 100
 42 21.6
 71 33.3



#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 7.57 min Scan# 515
 Delta R.T. -0.03 min
 Lab File: BF083680.D
 Acq: 10 Dec 2015 12:13

Tgt Ion: 136 Resp: 498163
 Ion Ratio Lower Upper
 136 100
 137 11.2 8.7 13.1
 54 11.1 7.8 11.6
 68 7.9 5.7 8.5

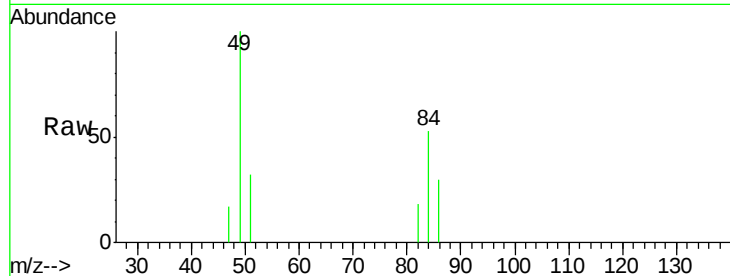




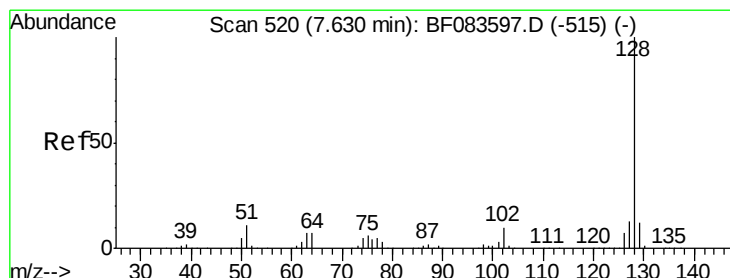
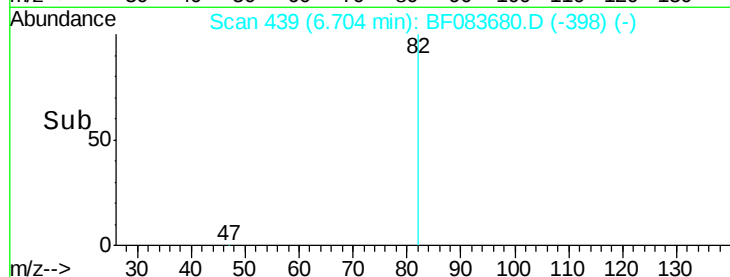
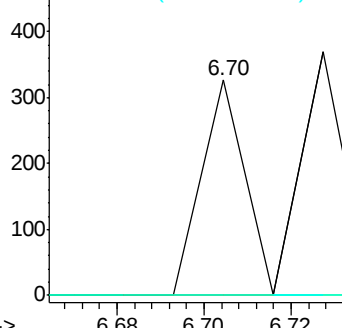
#23
Nitrobenzene-d5
Concen: 0.02 ng
RT: 6.70 min Scan# 439
Delta R.T. 0.17 min
Lab File: BF083680.D
Acq: 10 Dec 2015 12:13

Instrument :
BNA_F
ClientSampleId :
SHED-SOUTH-WALLDL

Tgt Ion: 82 Resp: 224
Ion Ratio Lower Upper
82 100
128 0.0 30.7 46.1#
54 0.0 42.5 63.7#

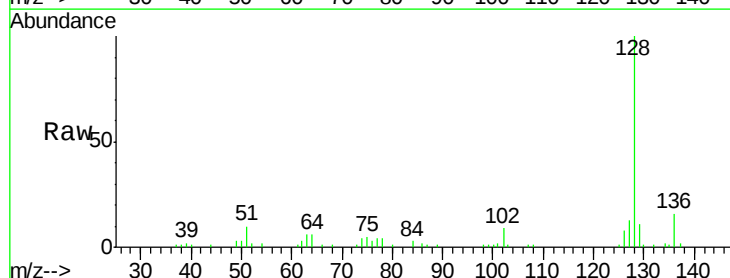


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

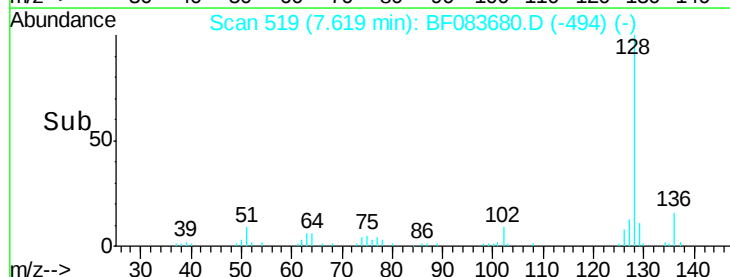
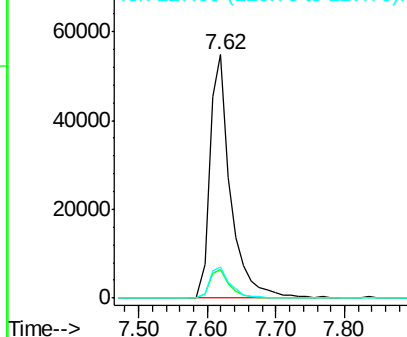


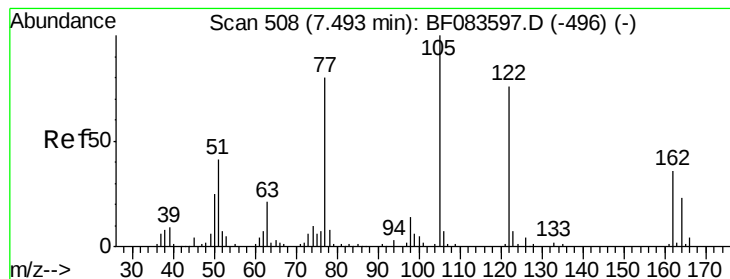
#31
Naphthalene
Concen: 4.36 ng
RT: 7.62 min Scan# 519
Delta R.T. -0.01 min
Lab File: BF083680.D
Acq: 10 Dec 2015 12:13

Tgt Ion: 128 Resp: 115104
Ion Ratio Lower Upper
128 100
129 11.5 8.6 13.0
127 12.9 10.6 16.0



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: 3.16 ng

RT: 7.50 min Scan# 509

Delta R.T. 0.01 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

Instrument :

BNA_F

ClientSampleId :

SHED-SOUTH-WALLDL

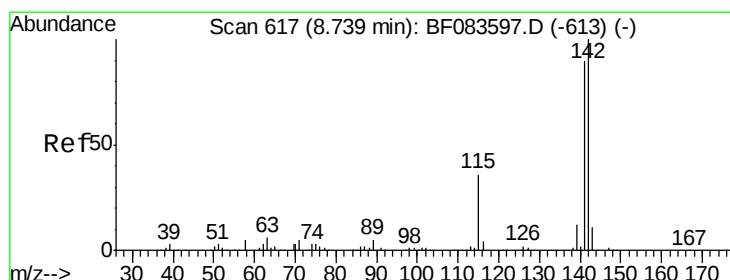
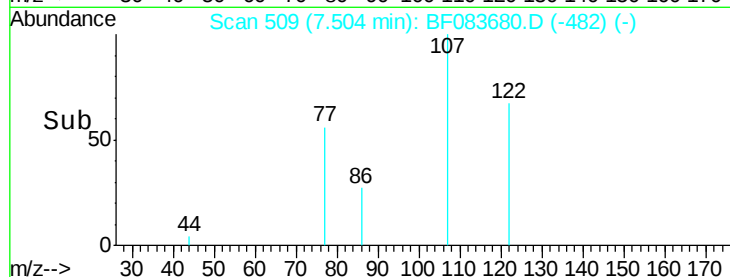
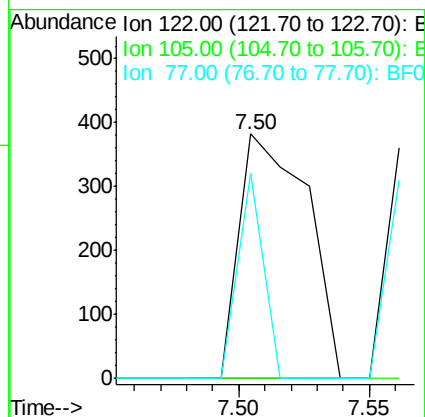
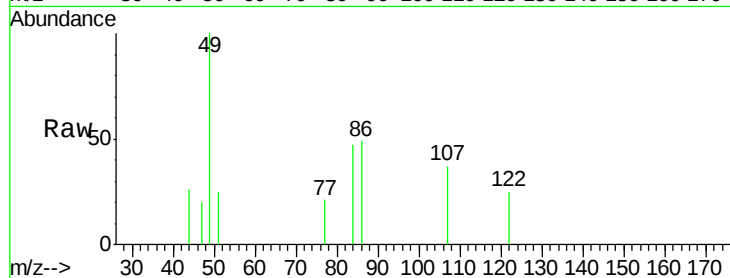
Tgt Ion:122 Resp: 695

Ion Ratio Lower Upper

122 100

105 0.0 105.6 145.6#

77 84.0 86.8 126.8#



#37

2-Methylnaphthalene

Concen: 3.86 ng

RT: 8.72 min Scan# 615

Delta R.T. -0.02 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

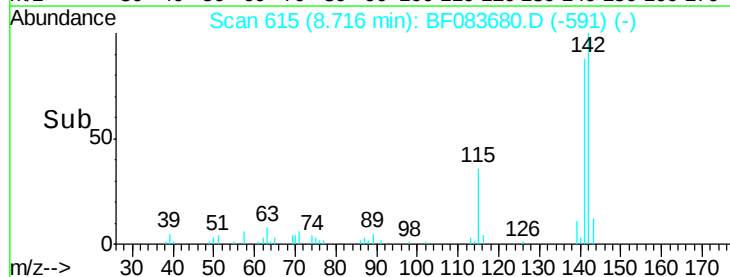
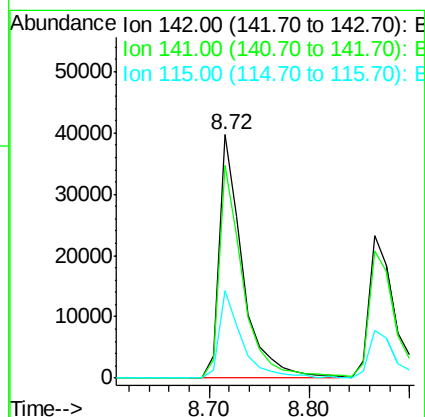
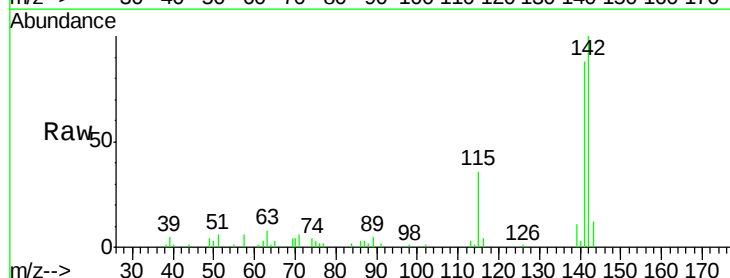
Tgt Ion:142 Resp: 64019

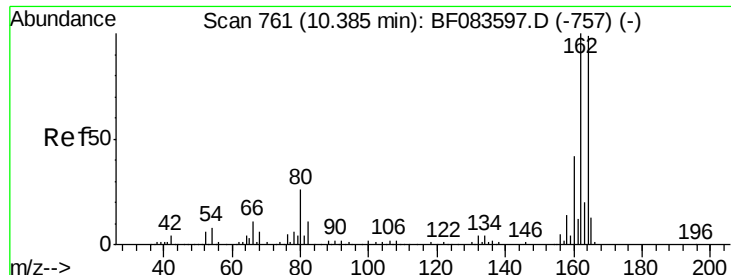
Ion Ratio Lower Upper

142 100

141 87.6 70.3 105.5

115 36.1 29.2 43.8

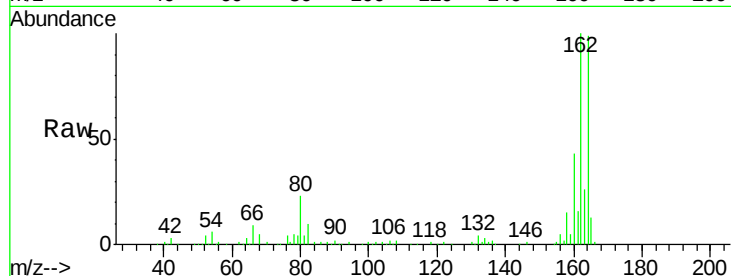




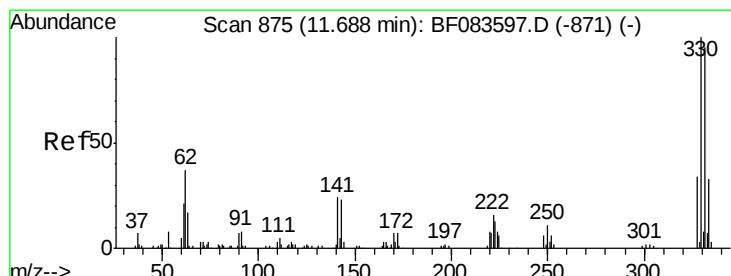
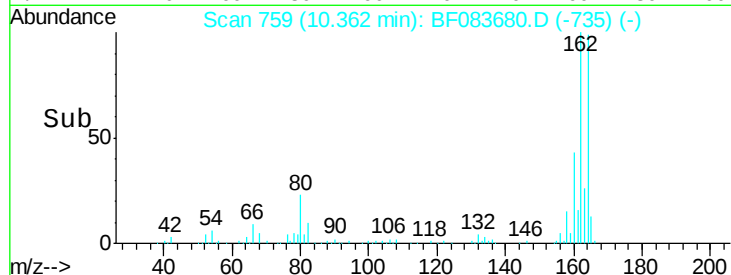
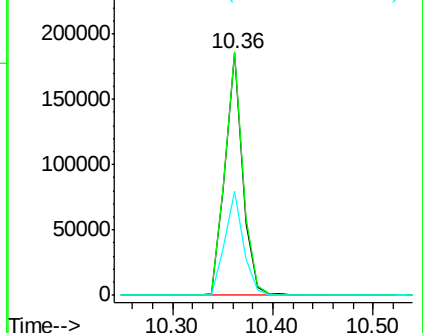
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.36 min Scan# 759
Delta R.T. -0.02 min
Lab File: BF083680.D
Acq: 10 Dec 2015 12:13

Instrument :
BNA_F
ClientSampleId :
SHED-SOUTH-WALLDL

Tgt Ion:164 Resp: 227800
Ion Ratio Lower Upper
164 100
162 100.6 78.8 118.2
160 42.8 33.4 50.2

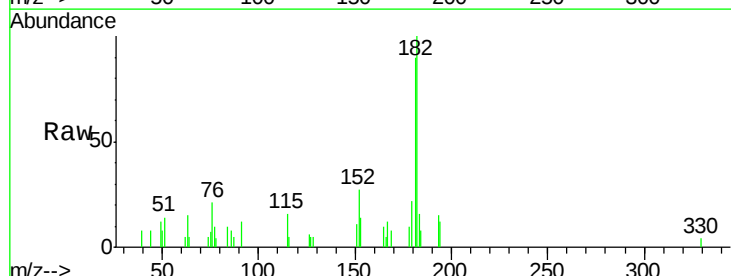


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

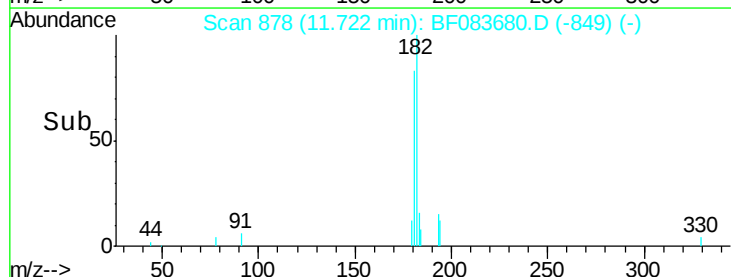
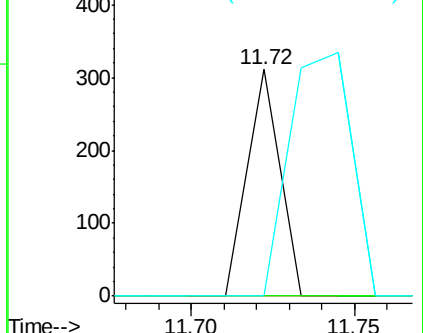


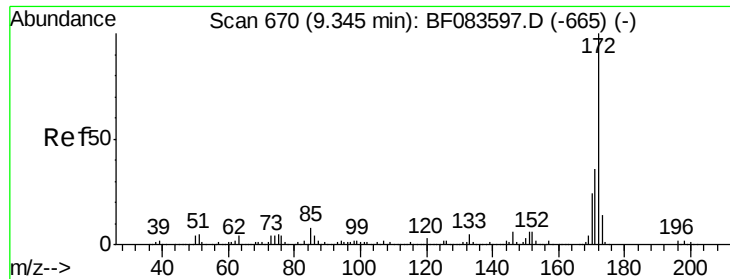
#41
2,4,6-Tribromophenol
Concen: 0.10 ng
RT: 11.72 min Scan# 878
Delta R.T. 0.03 min
Lab File: BF083680.D
Acq: 10 Dec 2015 12:13

Tgt Ion:330 Resp: 213
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 0.0 0.0 0.0



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

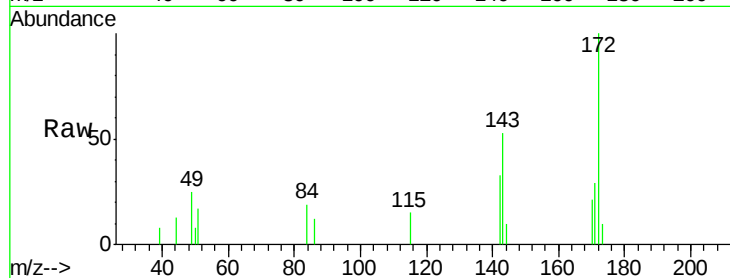




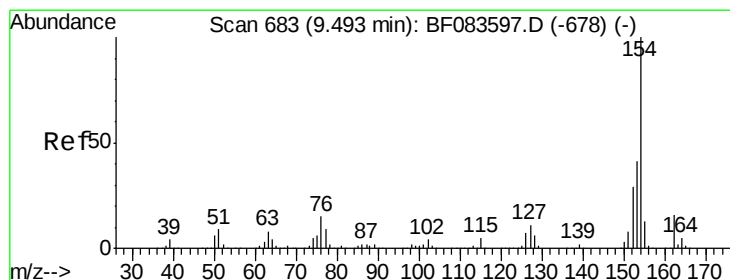
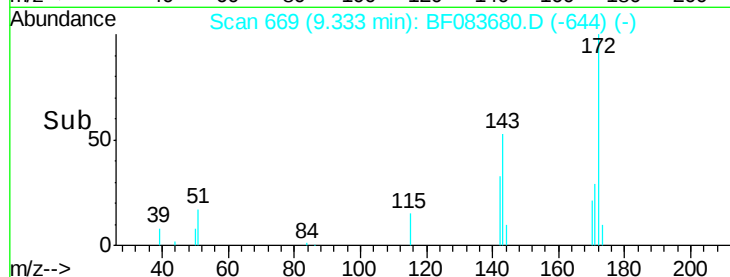
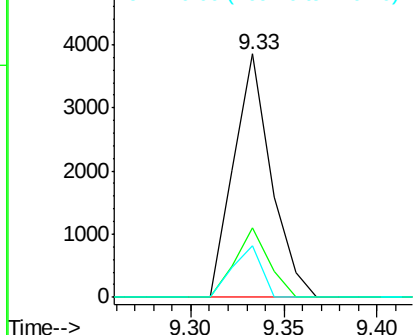
#44
2-Fluorobiphenyl
Concen: 0.33 ng
RT: 9.33 min Scan# 669
Delta R.T. -0.01 min
Lab File: BF083680.D
Acq: 10 Dec 2015 12:13

Instrument :
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Tgt Ion:172 Resp: 5382
Ion Ratio Lower Upper
172 100
171 28.6 28.6 42.8
170 21.4 19.4 29.0

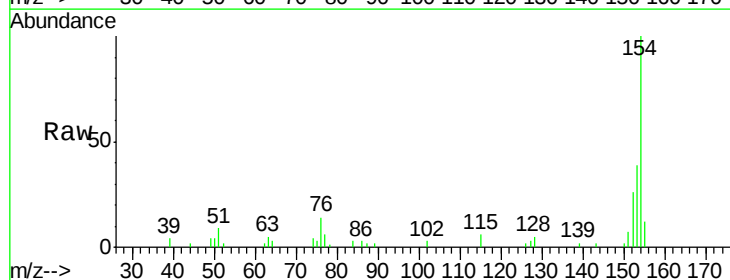


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

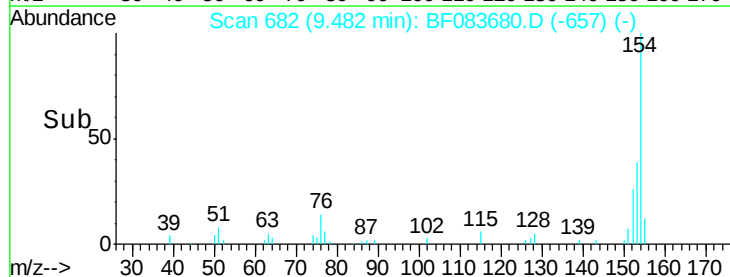
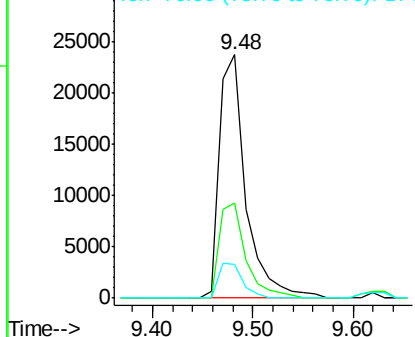


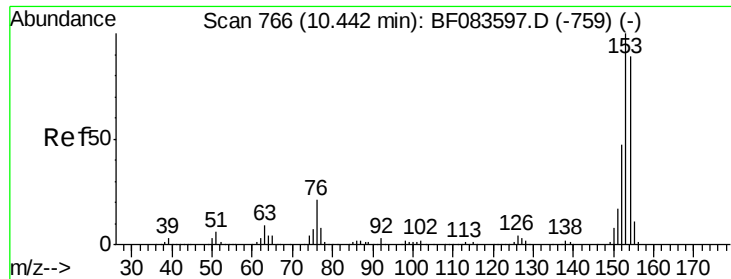
#45
1,1'-Biphenyl
Concen: 2.18 ng
RT: 9.48 min Scan# 682
Delta R.T. -0.01 min
Lab File: BF083680.D
Acq: 10 Dec 2015 12:13

Tgt Ion:154 Resp: 43182
Ion Ratio Lower Upper
154 100
153 39.3 20.2 60.2
76 13.9 0.0 34.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0





#51

Acenaphthene

Concen: 29.97 ng

RT: 10.41 min Scan# 763

Delta R.T. -0.03 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

Instrument :

BNA_F

ClientSampleId :

SHED-SOUTH-WALLDL

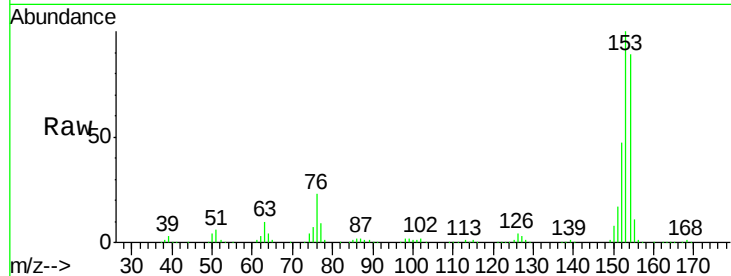
Tgt Ion:154 Resp: 422875

Ion Ratio Lower Upper

154 100

153 112.4 91.4 137.0

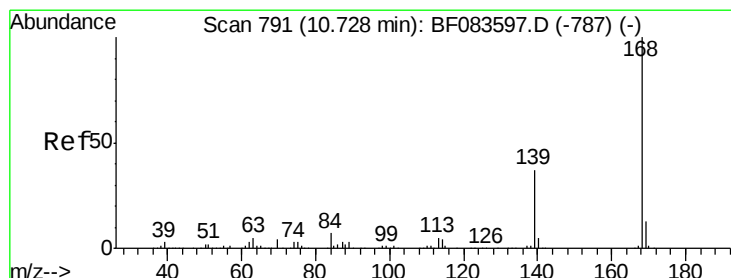
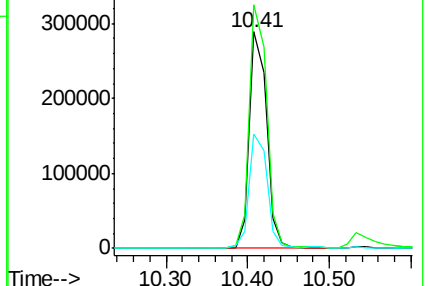
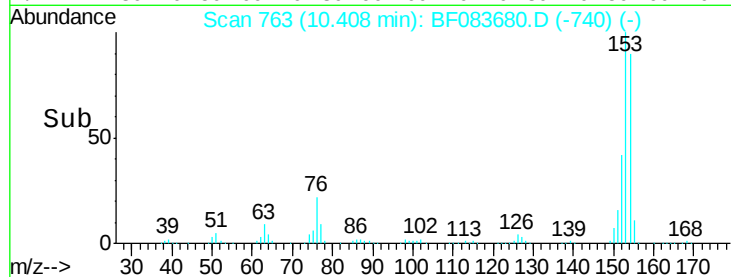
152 52.9 43.4 65.2



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: 21.89 ng

RT: 10.70 min Scan# 789

Delta R.T. -0.02 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

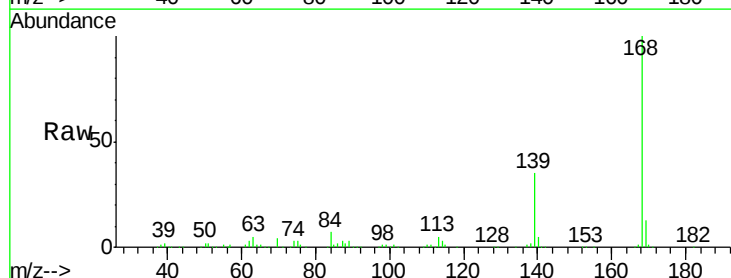
Tgt Ion:168 Resp: 428402

Ion Ratio Lower Upper

168 100

139 35.4 28.0 42.0

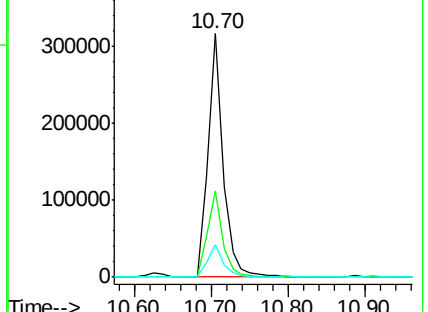
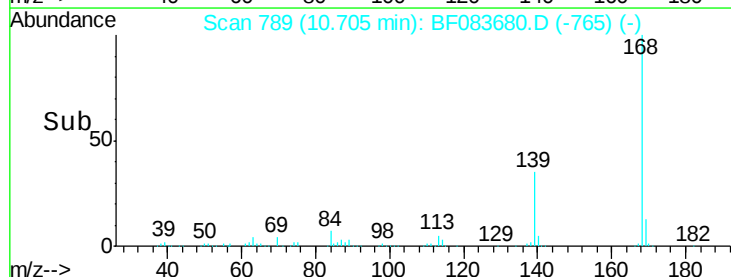
169 13.4 10.8 16.2

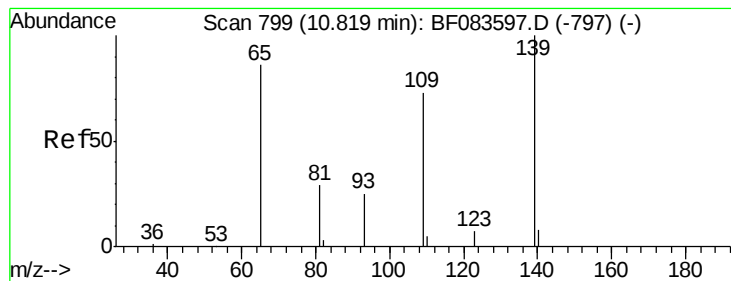


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 87.87 ng

RT: 10.70 min Scan# 789

Delta R.T. -0.11 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

Instrument :

BNA_F

ClientSampleId :

SHED-SOUTH-WALLDL

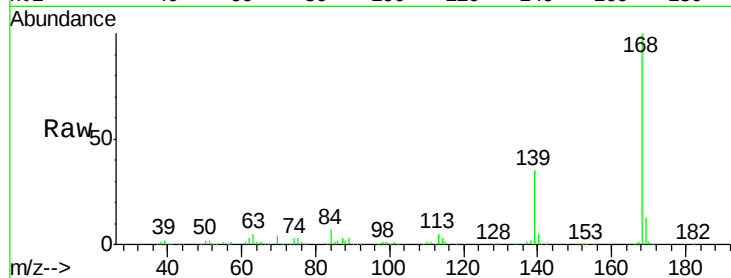
Tgt Ion:139 Resp: 153940

Ion Ratio Lower Upper

139 100

109 0.6 42.0 82.0#

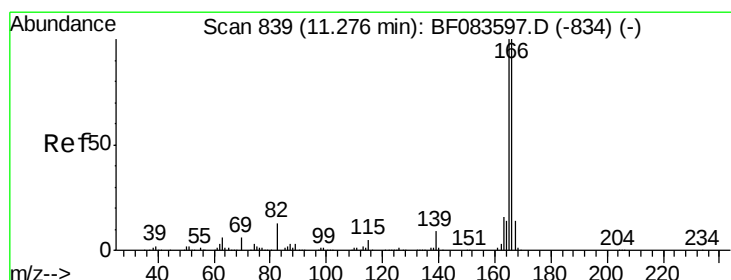
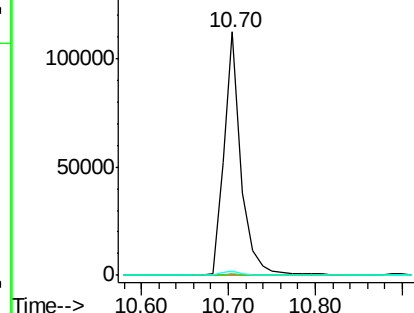
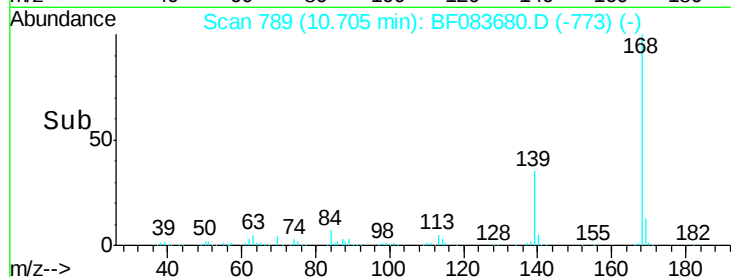
65 1.8 89.2 129.2#



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



#57

Fluorene

Concen: 32.14 ng

RT: 11.25 min Scan# 837

Delta R.T. -0.02 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

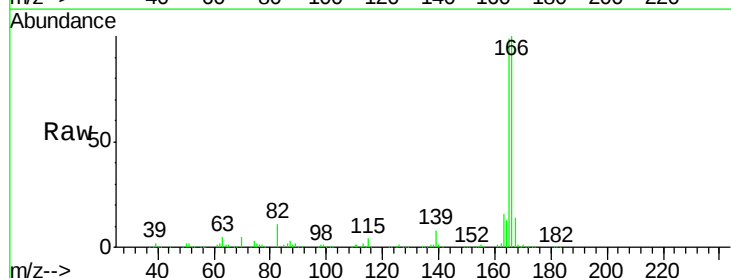
Tgt Ion:166 Resp: 548927

Ion Ratio Lower Upper

166 100

165 99.0 80.0 120.0

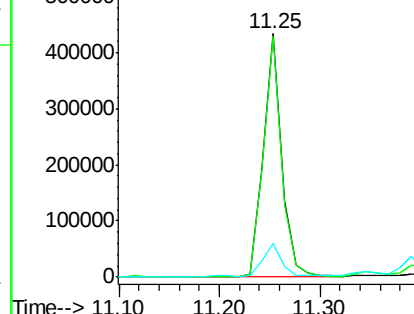
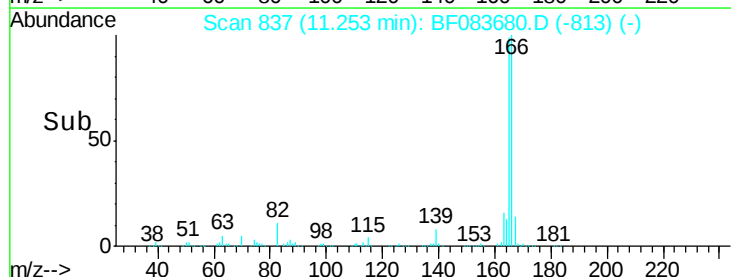
167 14.0 10.6 16.0

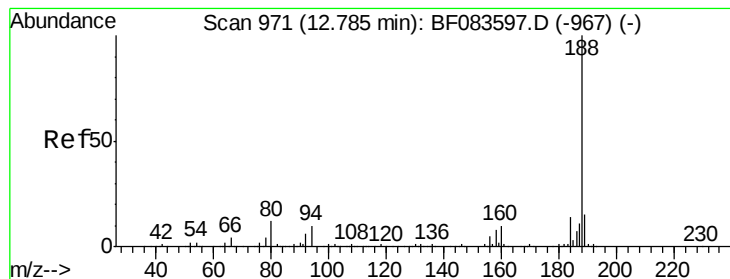


Abundance Ion 166.00 (165.70 to 166.70): E

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: 12.76 min Scan# 969

Delta R.T. -0.02 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

Instrument :

BNA_F

ClientSampleId :

SHED-SOUTH-WALLDL

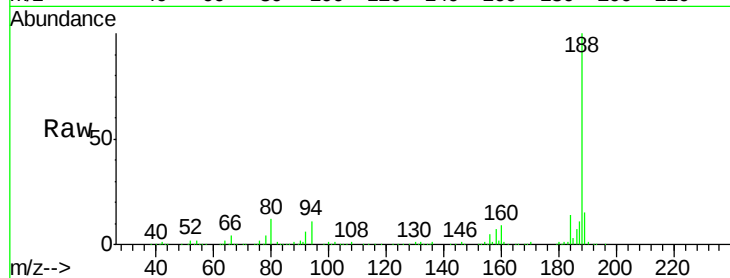
Tgt Ion:188 Resp: 357839

Ion Ratio Lower Upper

188 100

94 10.5 9.4 14.2

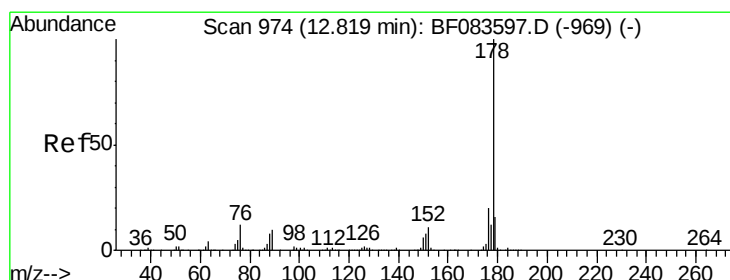
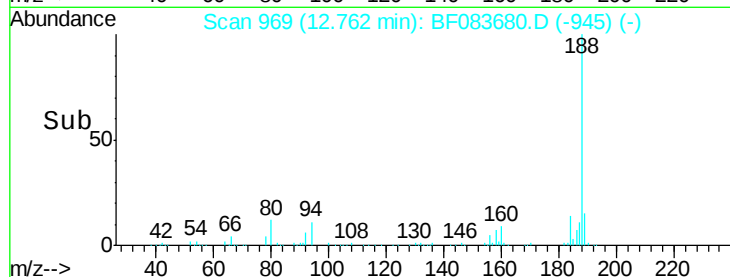
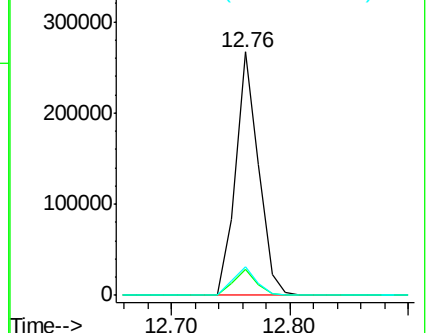
80 12.0 10.6 16.0



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: 178.17 ng

RT: 12.81 min Scan# 973

Delta R.T. -0.01 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

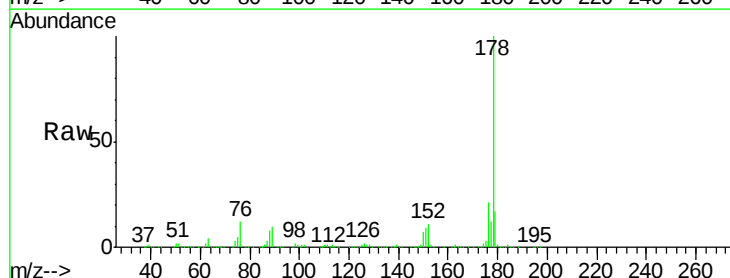
Tgt Ion:178 Resp: 3663144

Ion Ratio Lower Upper

178 100

176 20.6 15.7 23.5

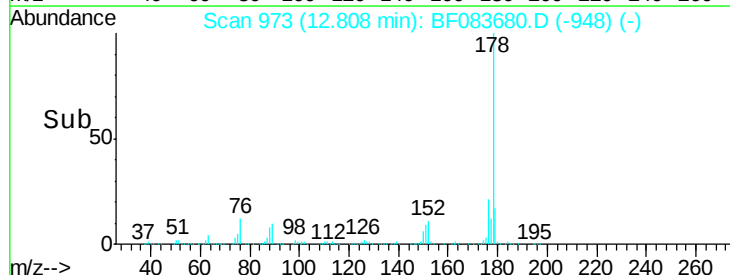
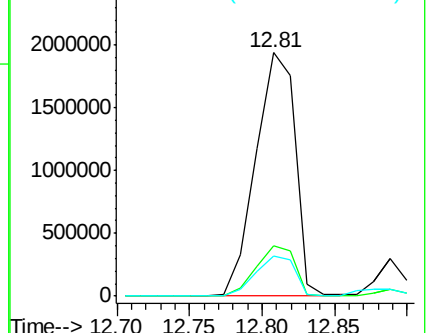
179 16.7 12.2 18.4

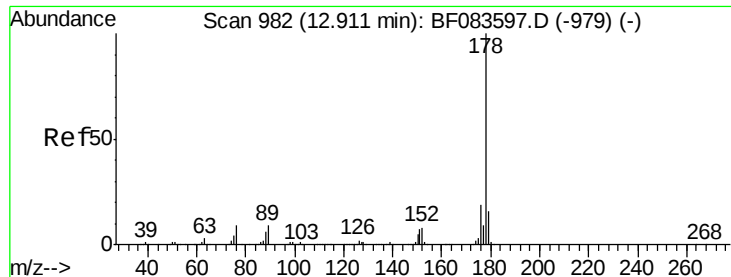


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 171.99 ng

RT: 12.81 min Scan# 973

Delta R.T. -0.10 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

Instrument :

BNA_F

ClientSampleId :

SHED-SOUTH-WALLDL

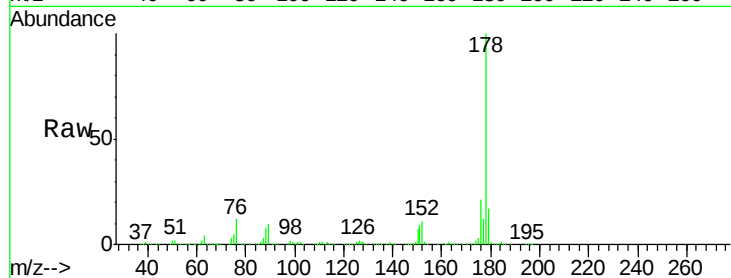
Tgt Ion:178 Resp: 3663144

Ion Ratio Lower Upper

178 100

176 20.6 15.2 22.8

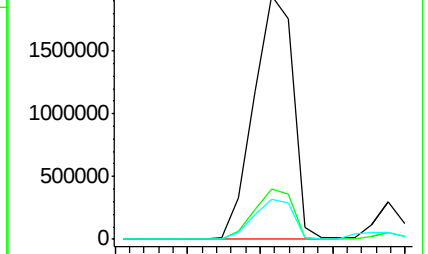
179 16.7 12.6 18.8



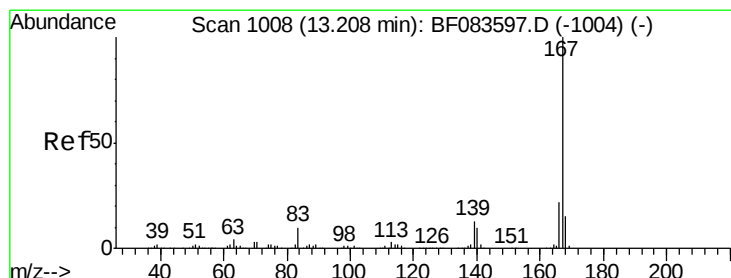
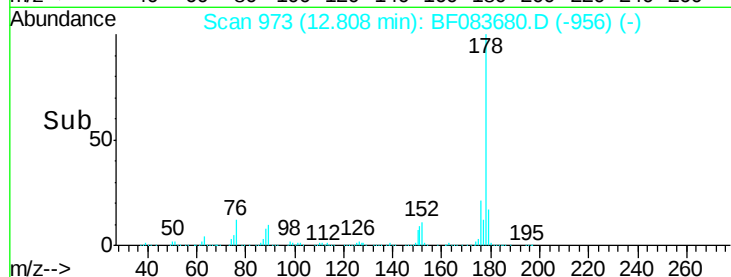
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 12.70 12.75 12.80 12.85



#72

Carbazole

Concen: 15.65 ng

RT: 13.19 min Scan# 1006

Delta R.T. -0.02 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

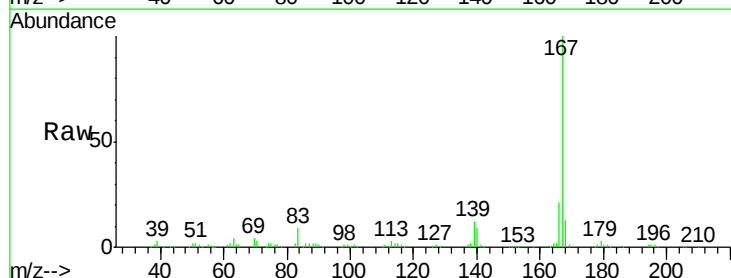
Tgt Ion:167 Resp: 285872

Ion Ratio Lower Upper

167 100

166 21.5 17.2 25.8

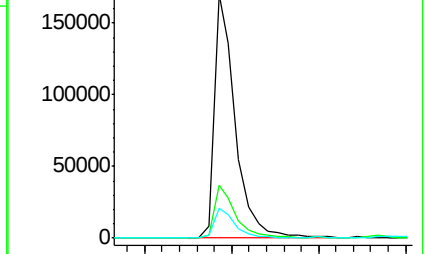
139 12.4 9.3 13.9



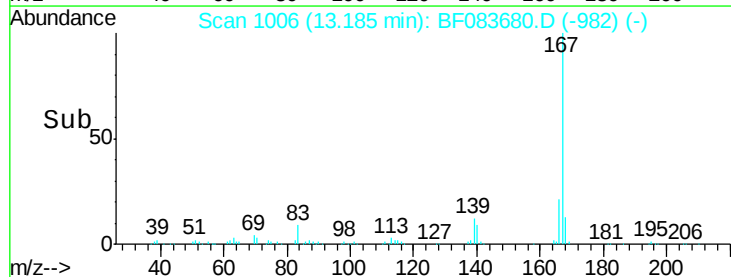
Abundance Ion 167.00 (166.70 to 167.70): E

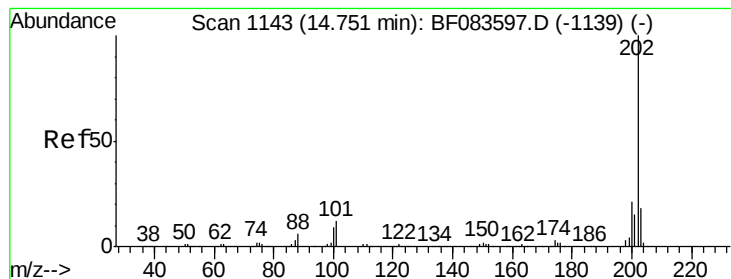
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time--> 13.10 13.20 13.30





#74

Fluoranthene

Concen: 109.16 ng

RT: 14.74 min Scan# 1142

Delta R.T. -0.01 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

Instrument :

BNA_F

ClientSampleId :

SHED-SOUTH-WALLDL

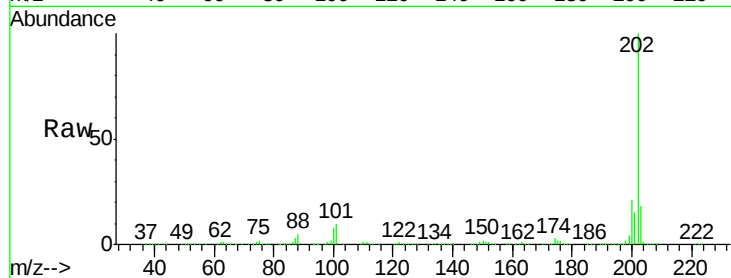
Tgt Ion:202 Resp: 2295926

Ion Ratio Lower Upper

202 100

101 9.7 0.0 31.5

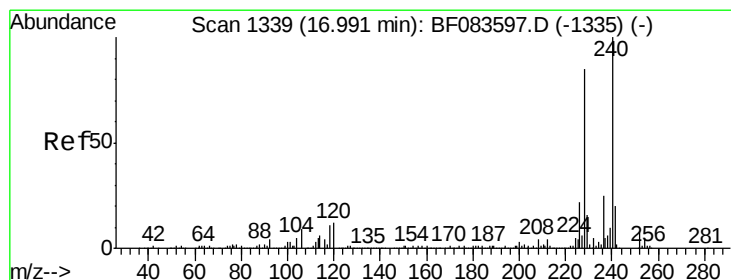
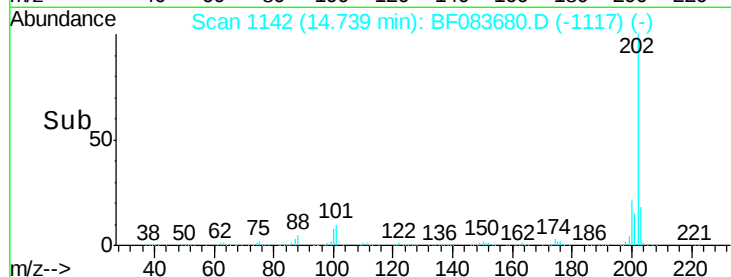
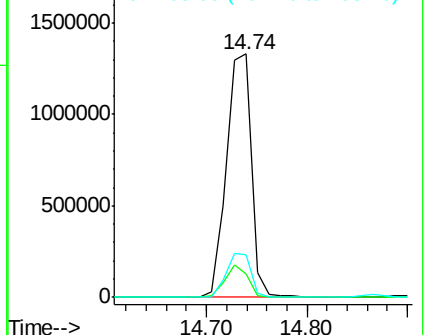
203 17.7 0.0 37.6



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: 16.97 min Scan# 1337

Delta R.T. -0.02 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

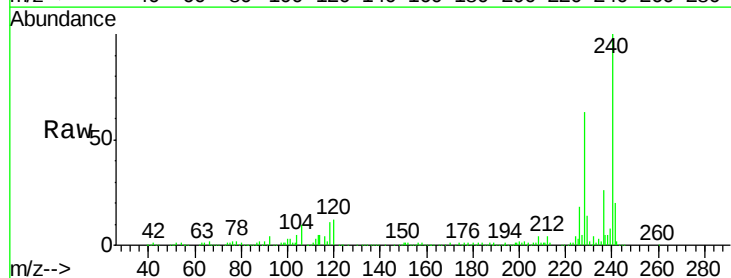
Tgt Ion:240 Resp: 309720

Ion Ratio Lower Upper

240 100

120 12.1 8.1 12.1

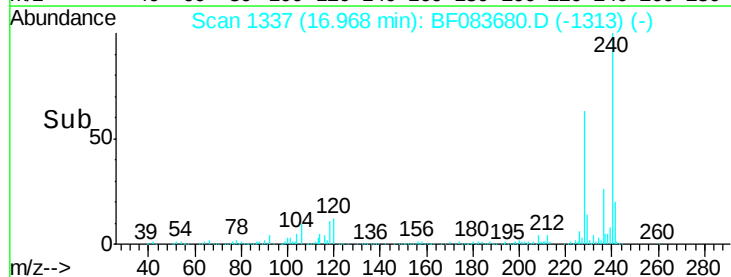
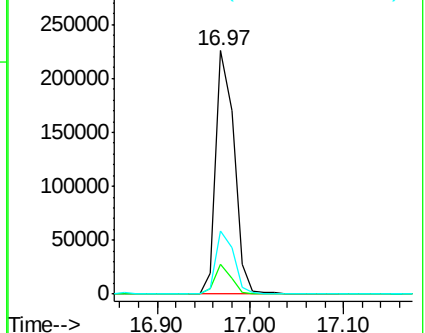
236 26.0 20.8 31.2

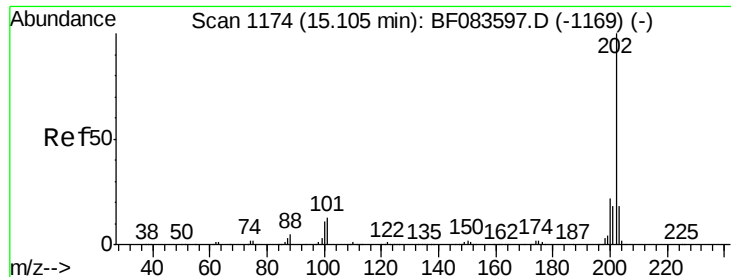


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

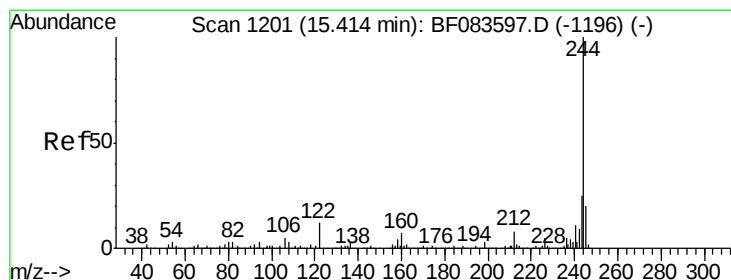
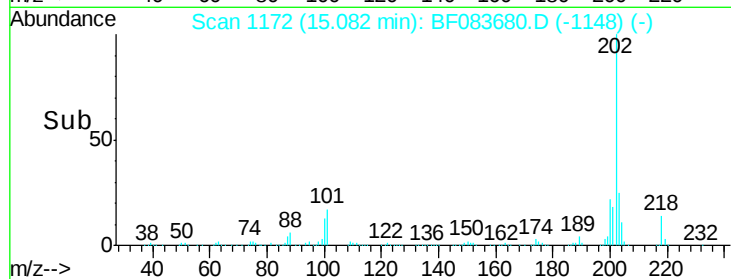
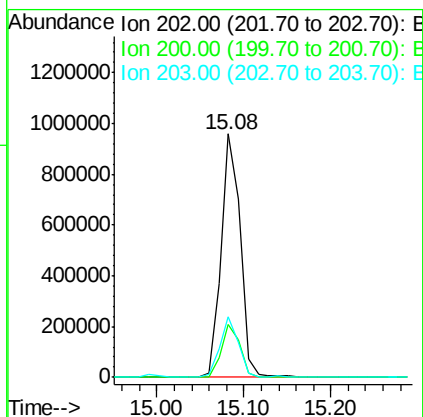
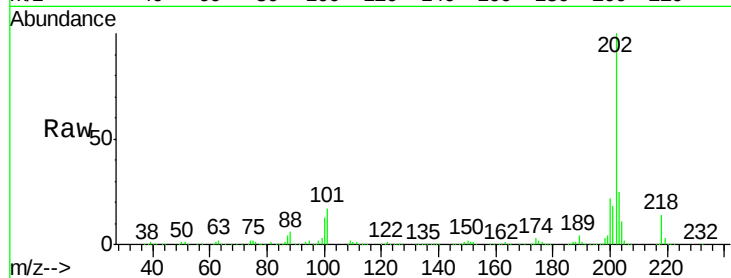




#77
 Pyrene
 Concen: 66.15 ng
 RT: 15.08 min Scan# 1172
 Delta R.T. -0.02 min
 Lab File: BF083680.D
 Acq: 10 Dec 2015 12:13

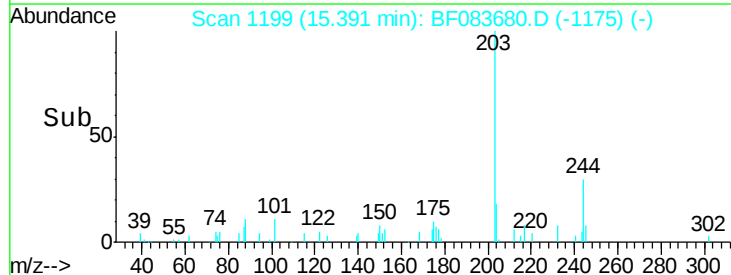
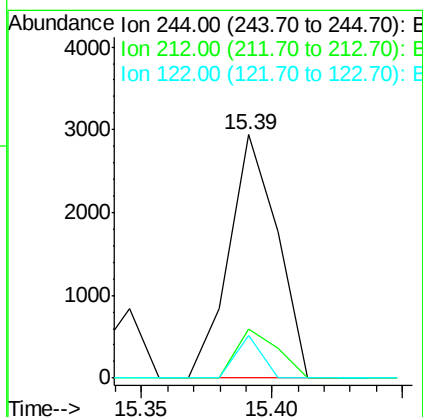
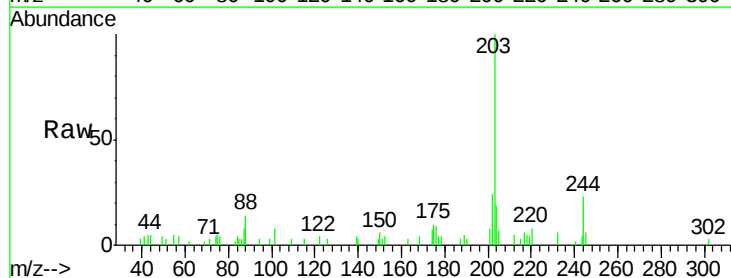
Instrument :
 BNA_F
 ClientSampleId :
 SHED-SOUTH-WALLDL

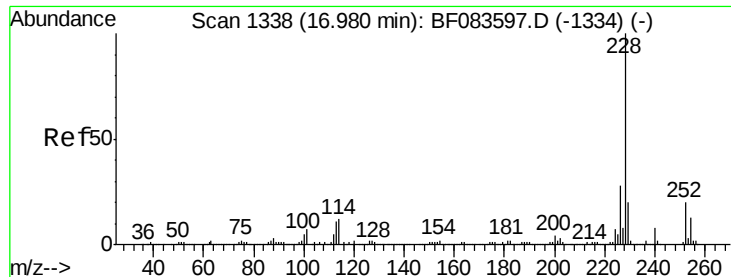
Tgt Ion:202 Resp: 1474940
 Ion Ratio Lower Upper
 202 100
 200 21.6 16.7 25.1
 203 24.7 14.3 21.5#



#78
 Terphenyl-d14
 Concen: 0.29 ng
 RT: 15.39 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: BF083680.D
 Acq: 10 Dec 2015 12:13

Tgt Ion:244 Resp: 3806
 Ion Ratio Lower Upper
 244 100
 212 20.0 6.1 9.1#
 122 17.7 11.0 16.6#





#80

Benzo(a)anthracene

Concen: 17.66 ng

RT: 17.01 min Scan# 1341

Delta R.T. 0.03 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

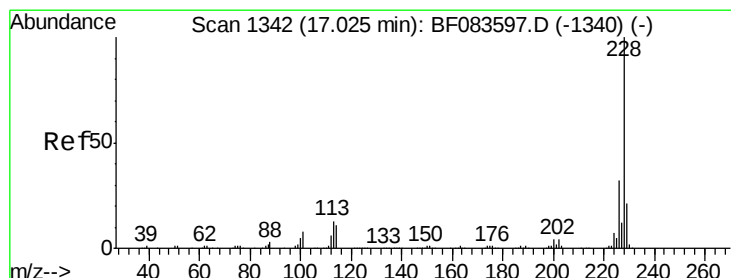
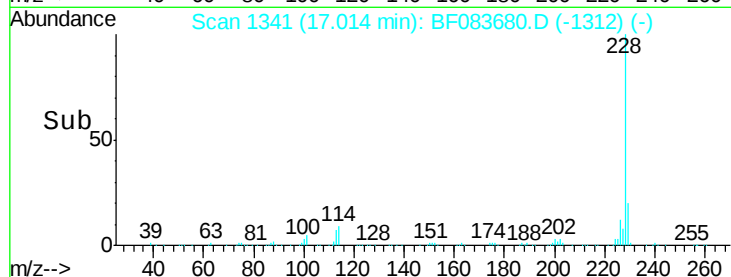
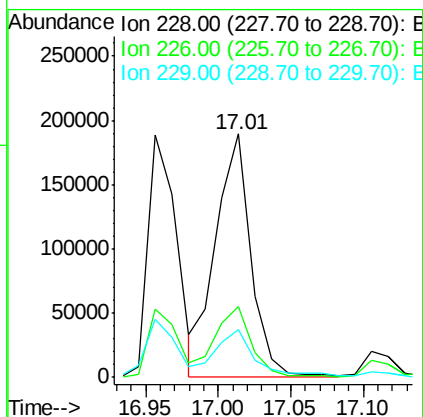
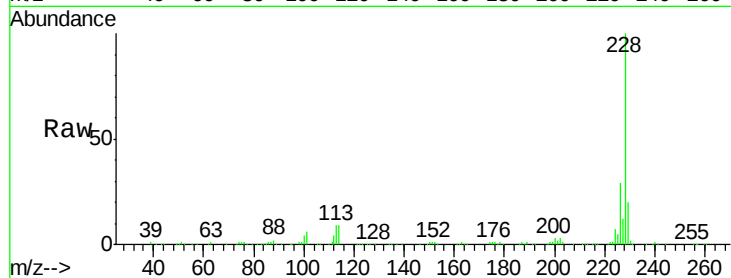
Instrument :

BNA_F

ClientSampleId :

SHED-SOUTH-WALLDL

Tgt Ion:	228	Resp:	320135
Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.3	33.5
229	19.8	15.7	23.5



#82

Chrysene

Concen: 17.62 ng

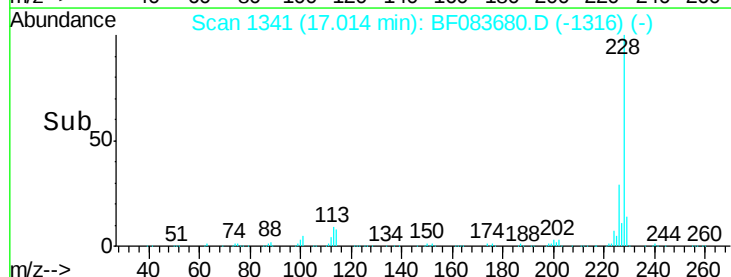
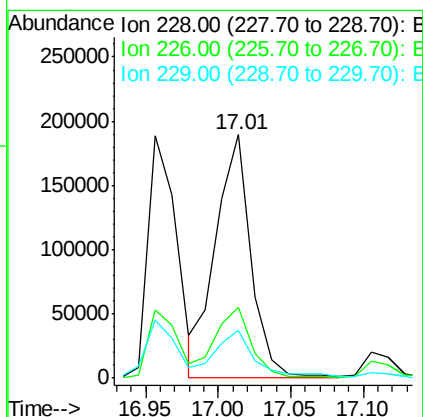
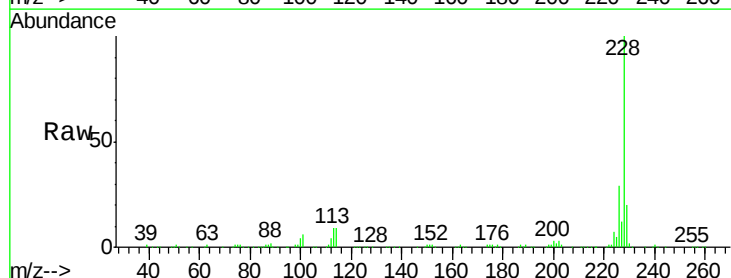
RT: 17.01 min Scan# 1341

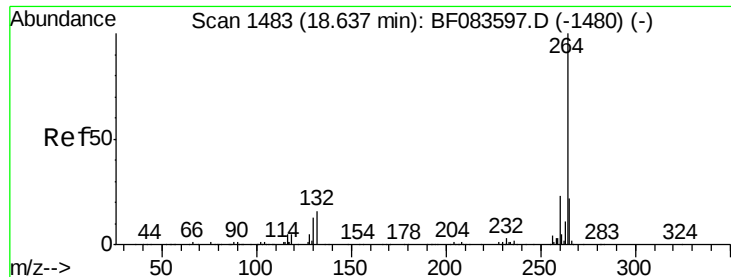
Delta R.T. -0.01 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

Tgt Ion:	228	Resp:	320135
Ion	Ratio	Lower	Upper
228	100		
226	28.8	24.7	37.1
229	19.8	16.3	24.5

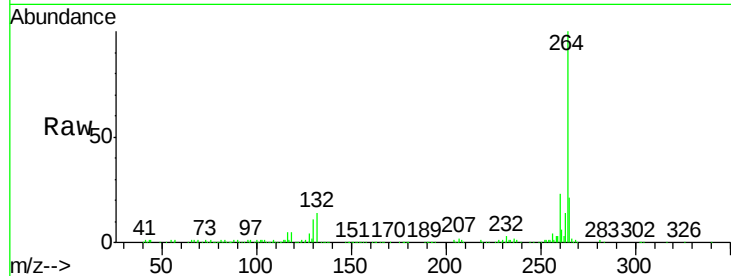




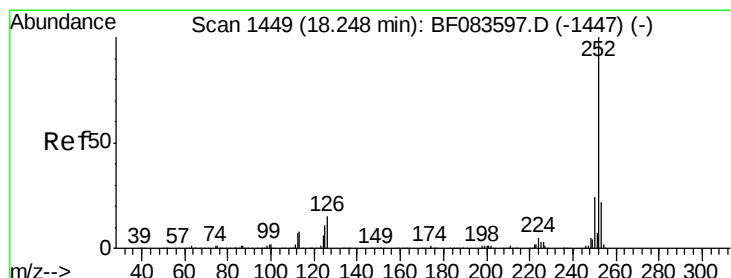
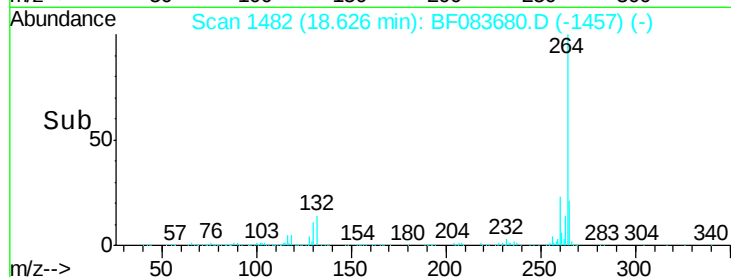
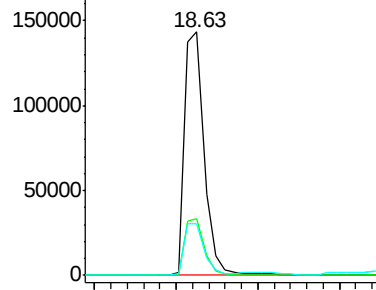
#86
Perylene-d12
Concen: 20.00 ng
RT: 18.63 min Scan# 1482
Delta R.T. -0.01 min
Lab File: BF083680.D
Acq: 10 Dec 2015 12:13

Instrument :
BNA_F
ClientSampleId :
SHED-SOUTH-WALLDL

Tgt Ion:264 Resp: 241880
Ion Ratio Lower Upper
264 100
260 23.1 19.4 29.0
265 21.0 17.8 26.6

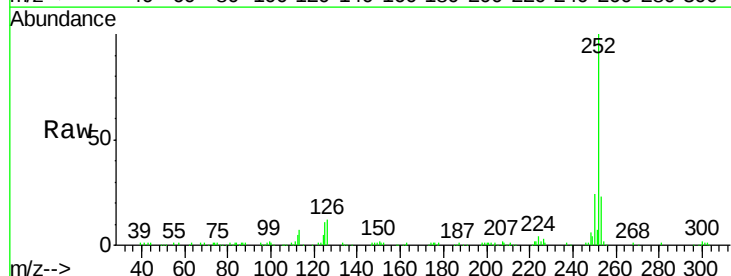


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

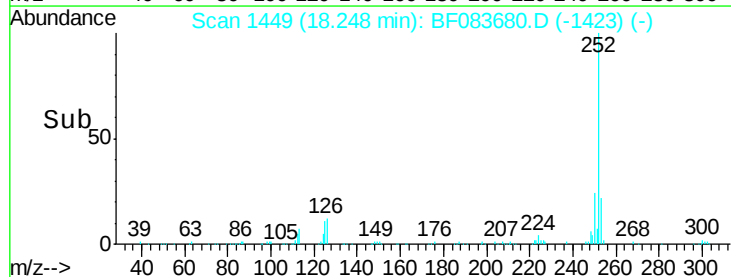
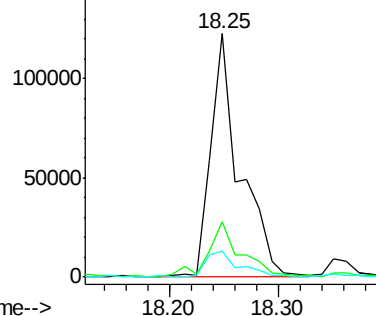


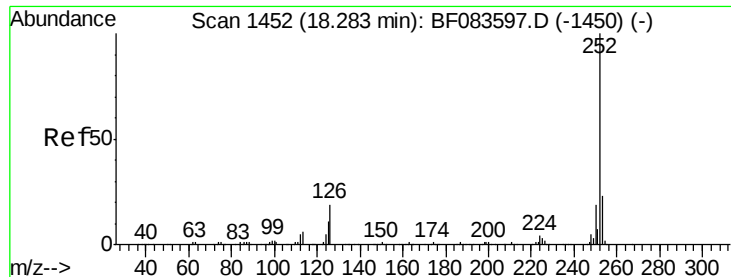
#87
Benzo(b)fluoranthene
Concen: 16.38 ng
RT: 18.25 min Scan# 1449
Delta R.T. 0.00 min
Lab File: BF083680.D
Acq: 10 Dec 2015 12:13

Tgt Ion:252 Resp: 225640
Ion Ratio Lower Upper
252 100
253 22.7 18.2 27.4
125 10.9 8.2 12.4



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 14.87 ng

RT: 18.25 min Scan# 1449

Delta R.T. -0.03 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

Instrument :

BNA_F

ClientSampleId :

SHED-SOUTH-WALLDL

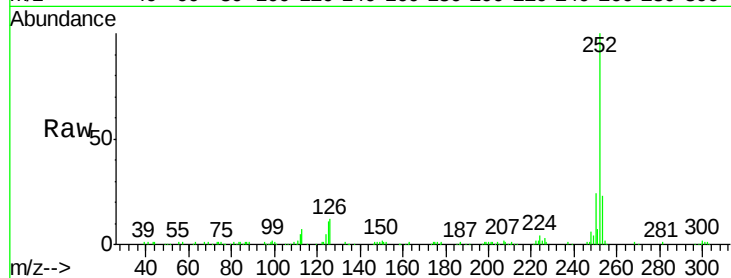
Tgt Ion:252 Resp: 225640

Ion Ratio Lower Upper

252 100

253 22.7 18.6 27.8

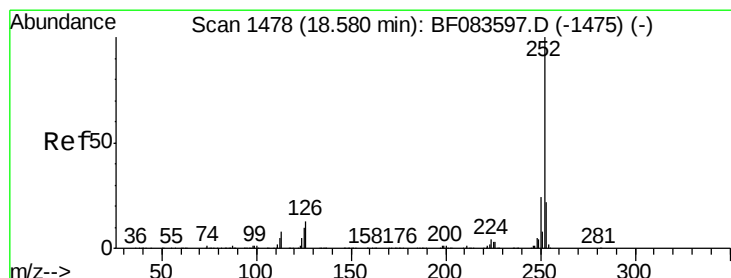
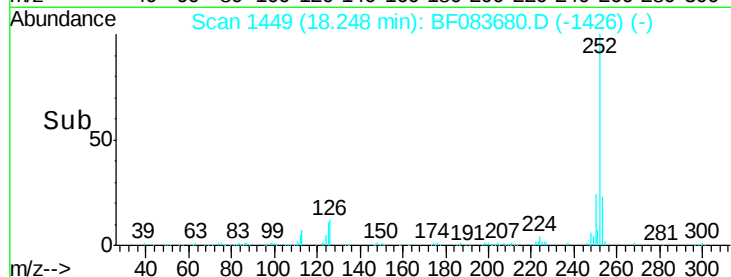
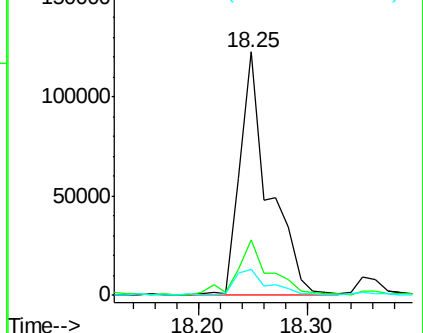
125 10.9 11.5 17.3#



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



#89

Benzo(a)pyrene

Concen: 4.56 ng

RT: 18.52 min Scan# 1473

Delta R.T. -0.06 min

Lab File: BF083680.D

Acq: 10 Dec 2015 12:13

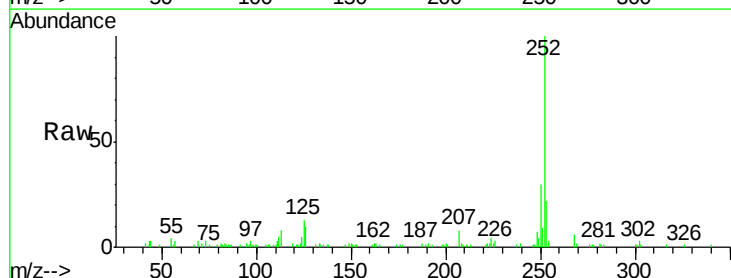
Tgt Ion:252 Resp: 61268

Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

125 13.0 11.0 16.6



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

