

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120715\
 Data File : BF083583.D
 Acq On : 8 Dec 2015 5:43
 Operator : UM/IZ
 Sample : G4584-02DL 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)DL

Quant Time: Dec 08 06:35:28 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 05 04:12:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.72	152	162839	20.00	ng	-0.05
21) Naphthalene-d8	7.62	136	573178	20.00	ng	-0.06
38) Acenaphthene-d10	10.41	164	248449	20.00	ng	-0.06
63) Phenanthrene-d10	12.81	188	387464	20.00	ng	-0.05
75) Chrysene-d12	17.01	240	365046	20.00	ng	-0.03
86) Perylene-d12	18.65	264	271411	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.01	112	141098	13.15	ng	-0.02
7) Phenol-d6	5.30	99	195209	13.20	ng	-0.02
23) Nitrobenzene-d5	6.56	82	122157	9.96	ng	-0.05
41) 2,4,6-Tribromophenol	11.71	330	24443	10.67	ng	-0.05
44) 2-Fluorobiphenyl	9.37	172	199818	10.91	ng	-0.06
78) Terphenyl-d14	15.44	244	146754	8.95	ng	-0.05

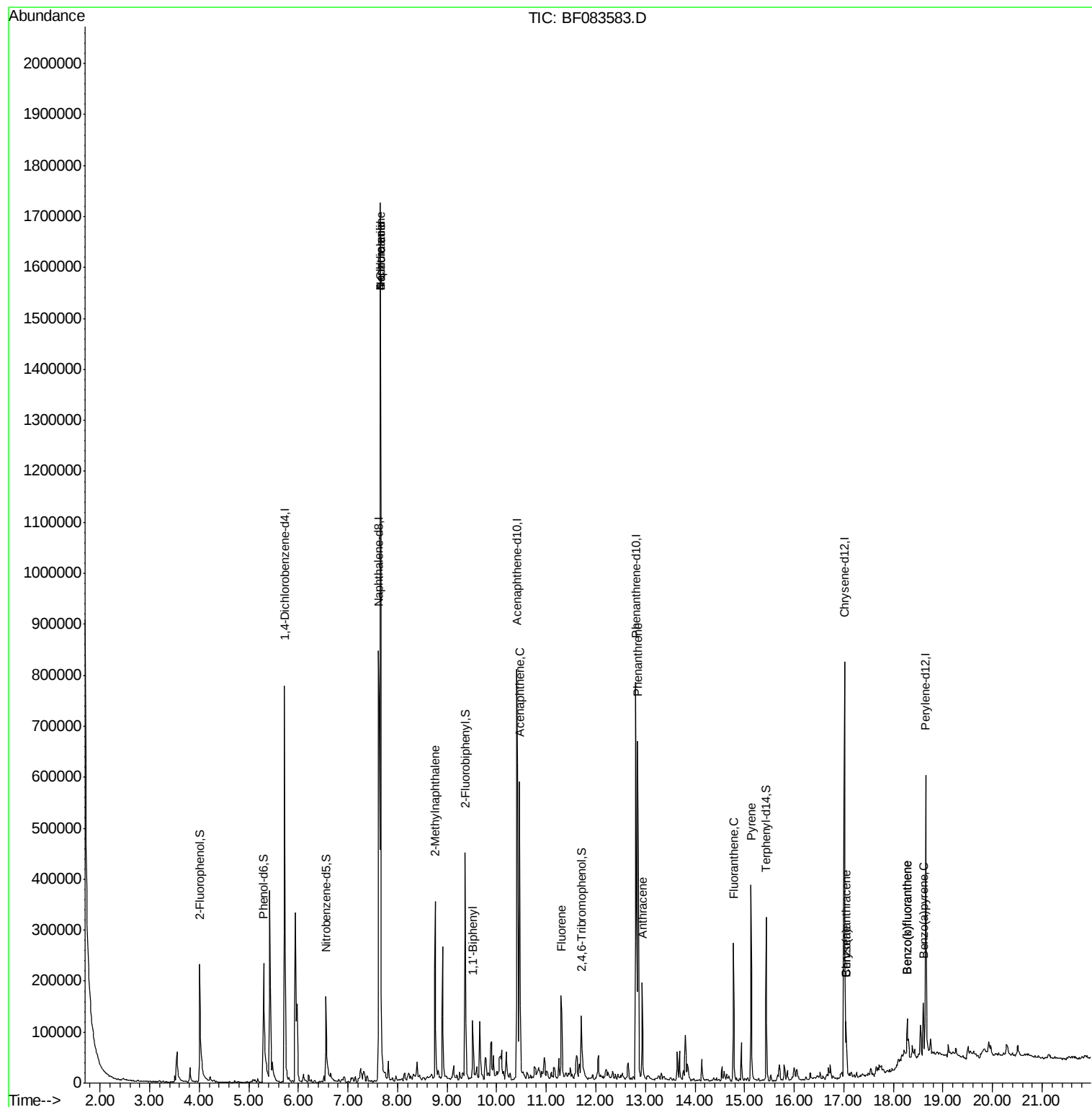
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.65	128	1135029	37.20	ng	99
32) Benzoic acid	7.65	122	2502	3.11	ng	# 1
33) 4-Chloroaniline	7.65	127	147426	12.35	ng	# 27
37) 2-Methylnaphthalene	8.76	142	142454	7.55	ng	97
45) 1,1'-Biphenyl	9.52	154	56357	2.55	ng	97
51) Acenaphthene	10.46	154	182817	11.66	ng	99
57) Fluorene	11.30	166	78454	4.15	ng	97
70) Phenanthrene	12.84	178	390295	17.31	ng	99
71) Anthracene	12.93	178	120983	5.26	ng	98
74) Fluoranthene	14.77	202	167450	7.49	ng	98
77) Pyrene	15.13	202	229965	8.42	ng	100
80) Benzo(a)anthracene	17.05	228	56059	2.62	ng	95
82) Chrysene	17.05	228	57151	2.69	ng	99
87) Benzo(b)fluoranthene	18.28	252	56245	3.69	ng	# 94
88) Benzo(k)fluoranthene	18.28	252	56245	3.60	ng	98
89) Benzo(a)pyrene	18.60	252	47363	3.19	ng	98

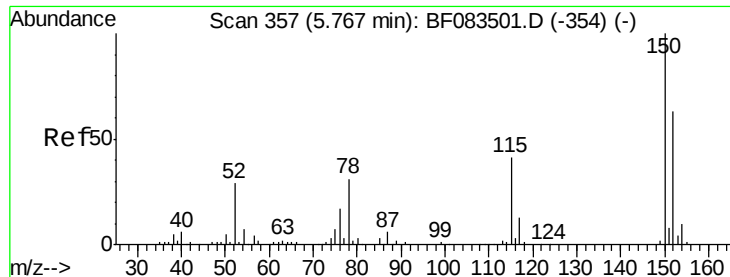
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.72 min Scan# 353

Delta R.T. -0.05 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(6-11)DL

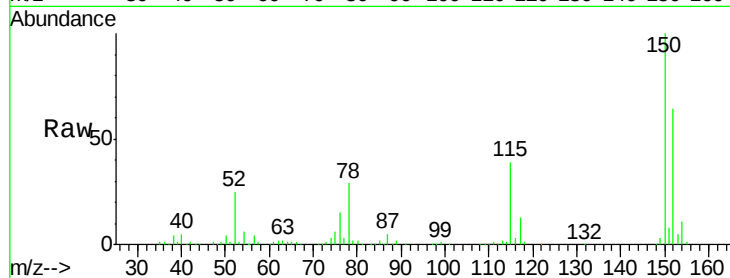
Tgt Ion:152 Resp: 162839

Ion Ratio Lower Upper

152 100

150 155.6 126.5 189.7

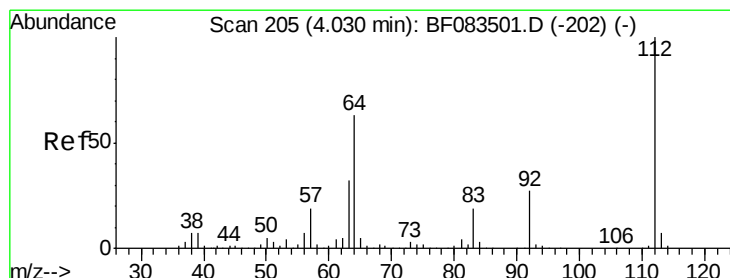
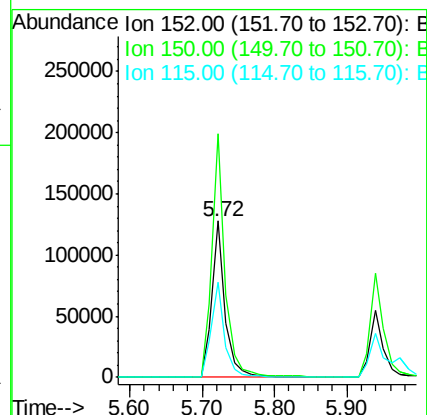
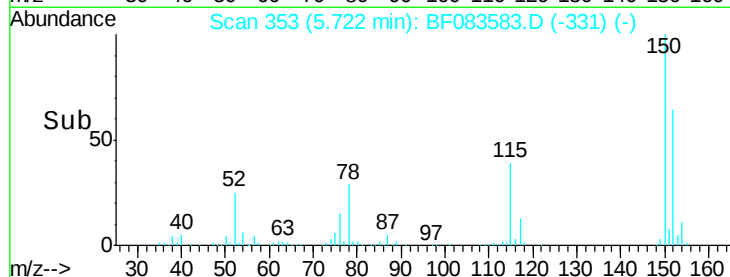
115 61.0 52.3 78.5



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: 13.15 ng

RT: 4.01 min Scan# 203

Delta R.T. -0.02 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

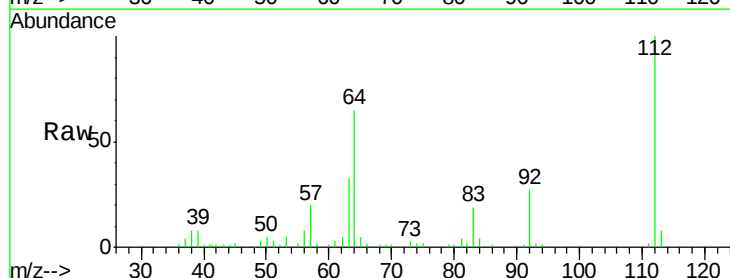
Tgt Ion:112 Resp: 141098

Ion Ratio Lower Upper

112 100

64 64.8 50.5 75.7

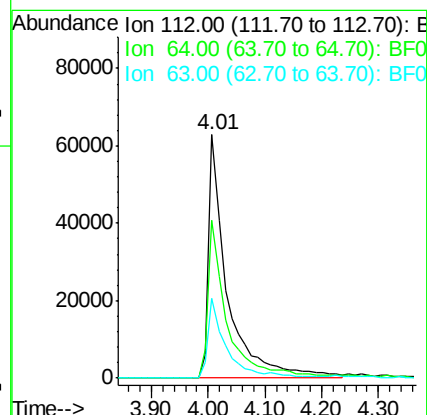
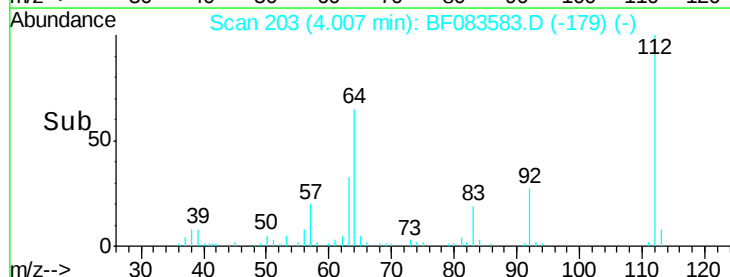
63 32.7 25.8 38.6



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 13.20 ng

RT: 5.30 min Scan# 316

Delta R.T. -0.02 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(6-11)DL

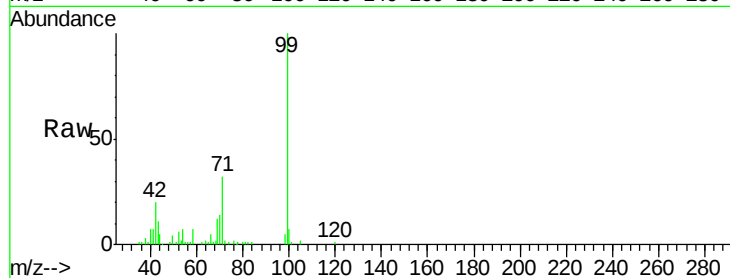
Tgt Ion: 99 Resp: 195209

Ion Ratio Lower Upper

99 100

42 19.6 17.3 25.9

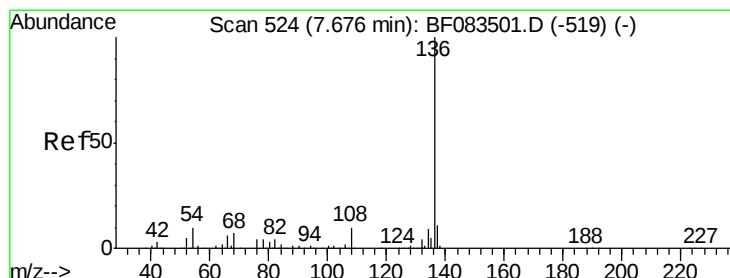
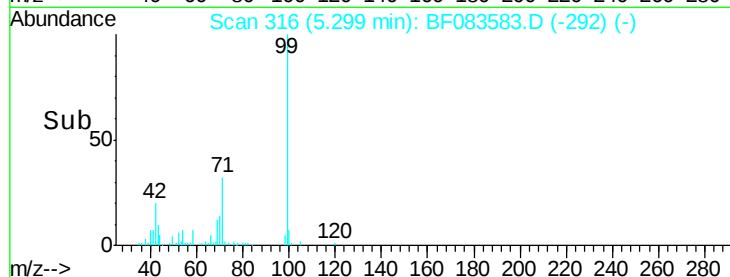
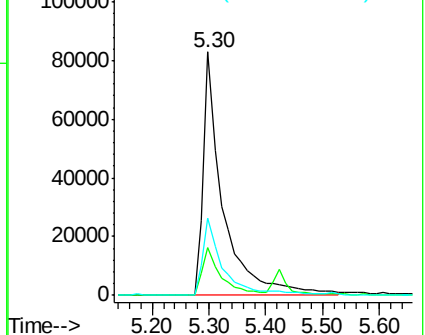
71 31.8 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.62 min Scan# 519

Delta R.T. -0.06 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

Tgt Ion: 136 Resp: 573178

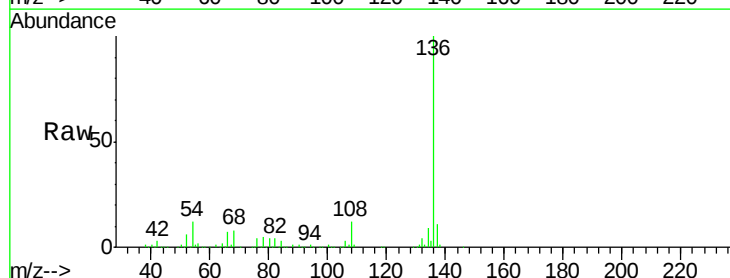
Ion Ratio Lower Upper

136 100

137 11.4 8.7 13.1

54 11.7 7.8 11.6#

68 7.9 5.7 8.5

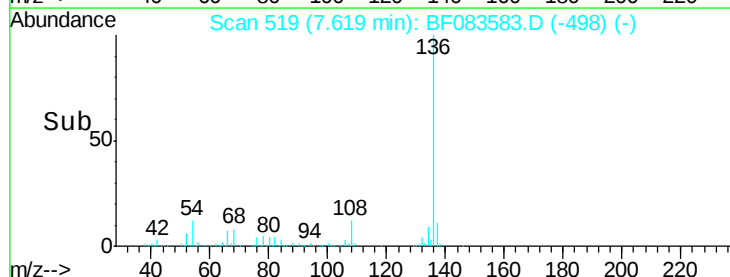
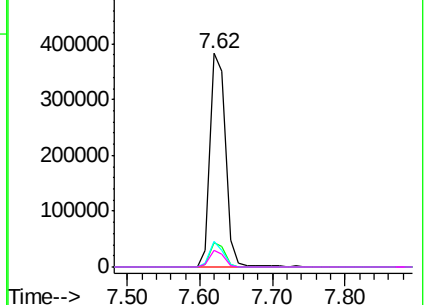


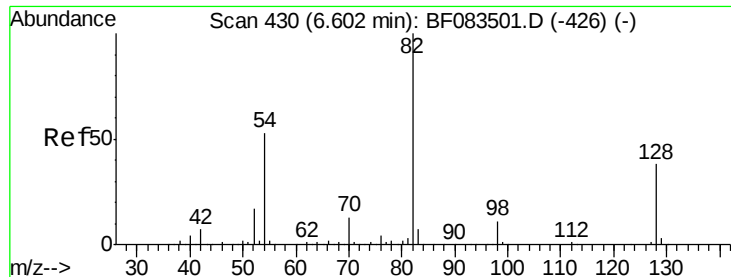
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

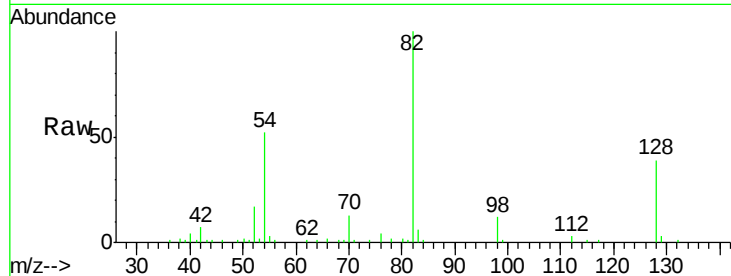




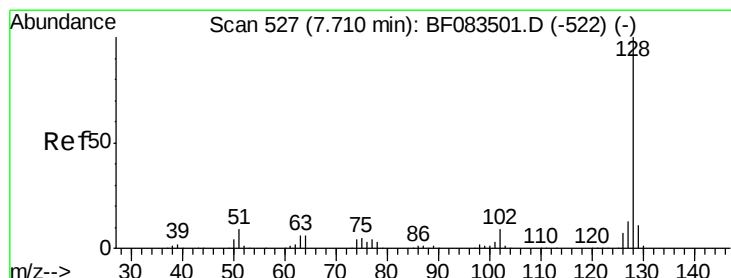
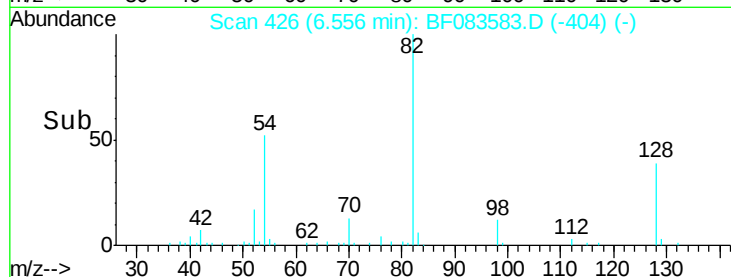
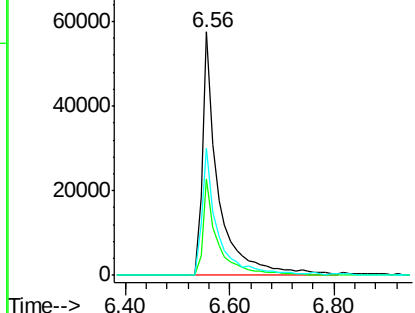
#23
 Nitrobenzene-d5
 Concen: 9.96 ng
 RT: 6.56 min Scan# 426
 Delta R.T. -0.05 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.7	46.1
54	52.1	42.5	63.7

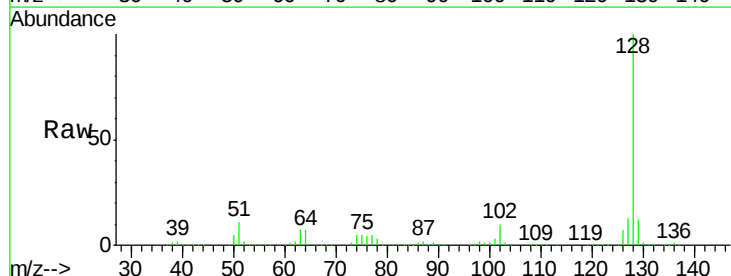


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

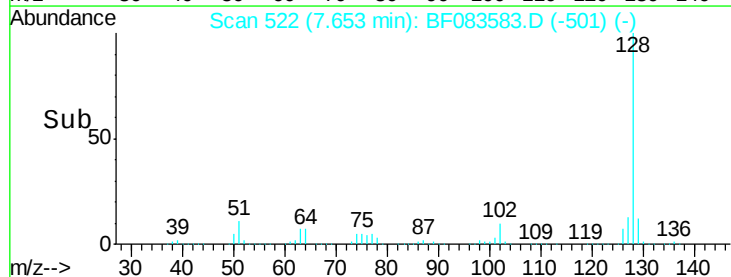
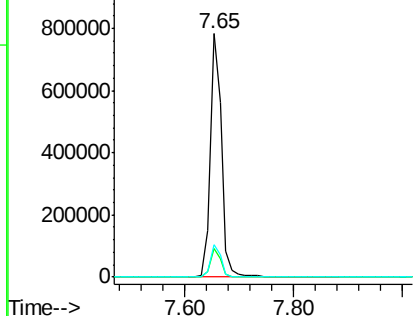


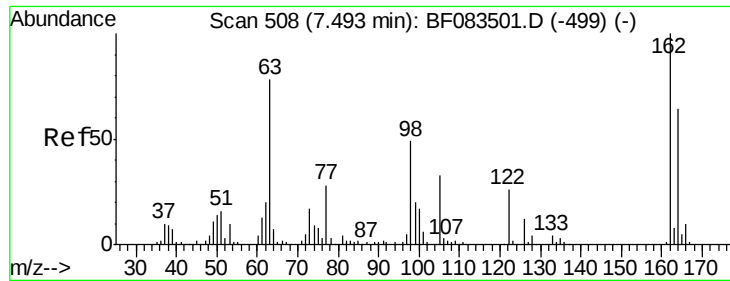
#31
 Naphthalene
 Concen: 37.20 ng
 RT: 7.65 min Scan# 522
 Delta R.T. -0.06 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.6	13.0
127	13.3	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

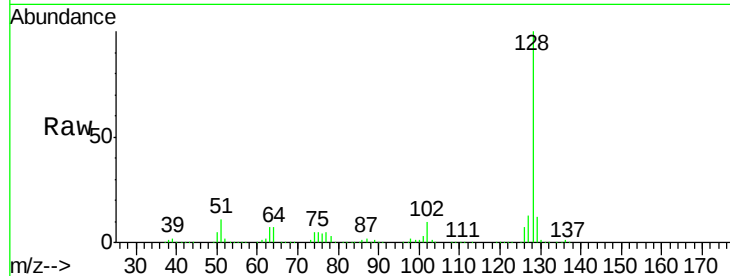




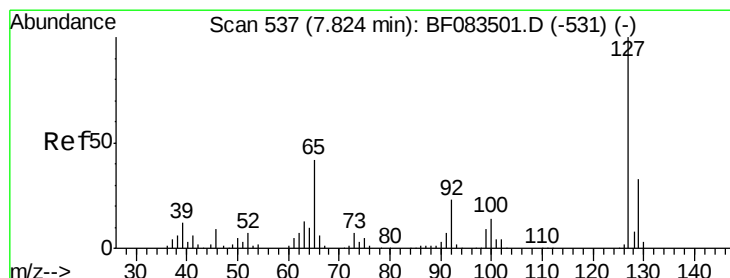
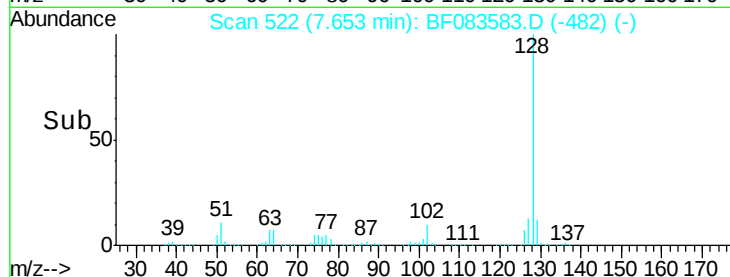
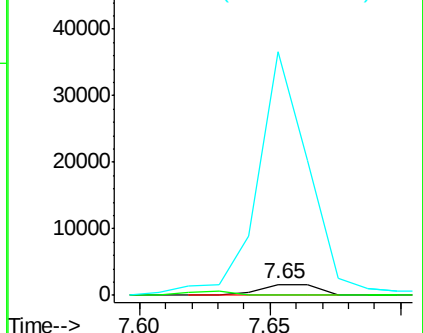
#32
Benzoic acid
Concen: 3.11 ng
RT: 7.65 min Scan# 522
Delta R.T. 0.16 min
Lab File: BF083583.D
Acq: 8 Dec 2015 5:43

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)DL

Tgt Ion:122 Resp: 2502
Ion Ratio Lower Upper
122 100
105 0.0 105.6 145.6#
77 2163.1 86.8 126.8#

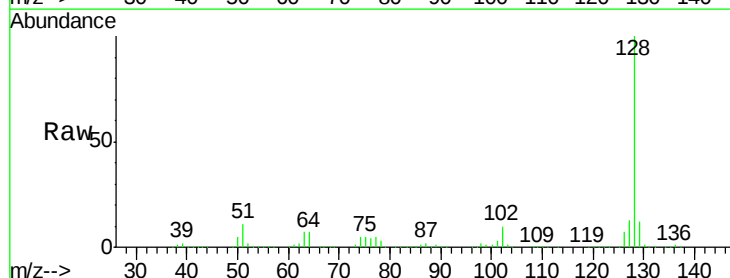


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF0

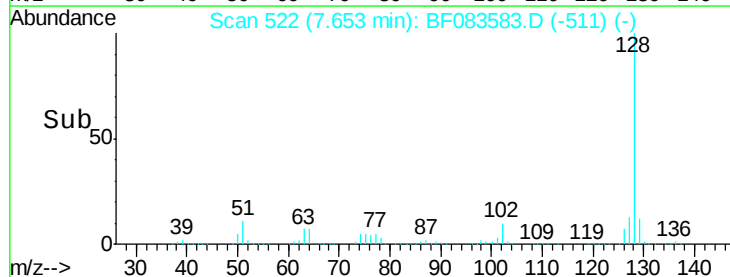
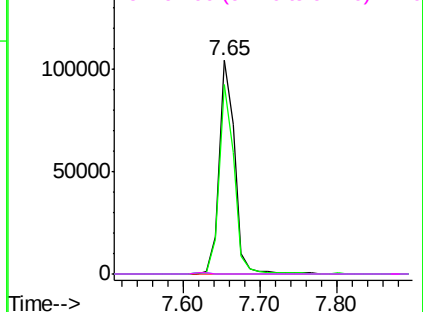


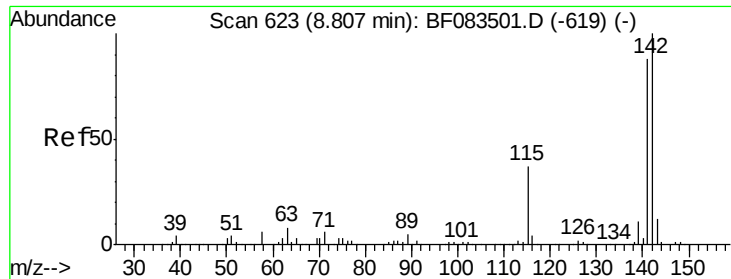
#33
4-Chloroaniline
Concen: 12.35 ng
RT: 7.65 min Scan# 522
Delta R.T. -0.17 min
Lab File: BF083583.D
Acq: 8 Dec 2015 5:43

Tgt Ion:127 Resp: 147426
Ion Ratio Lower Upper
127 100
129 89.0 26.1 39.1#
65 0.0 33.5 50.3#
92 0.0 18.6 28.0#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

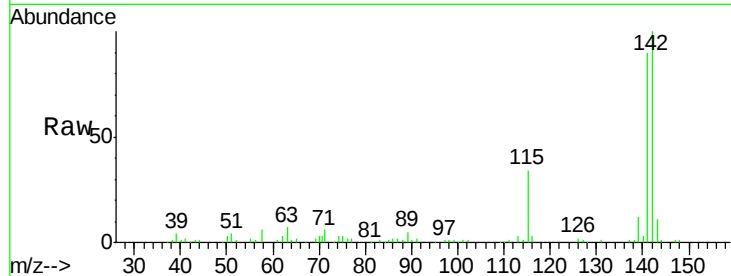




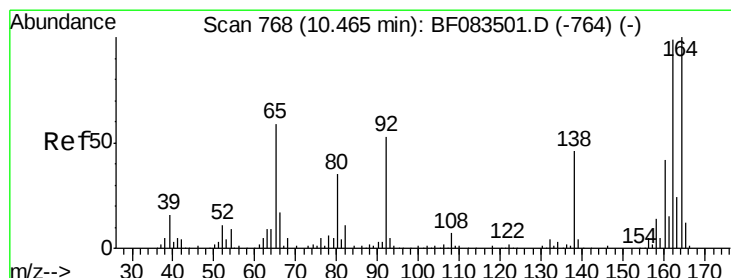
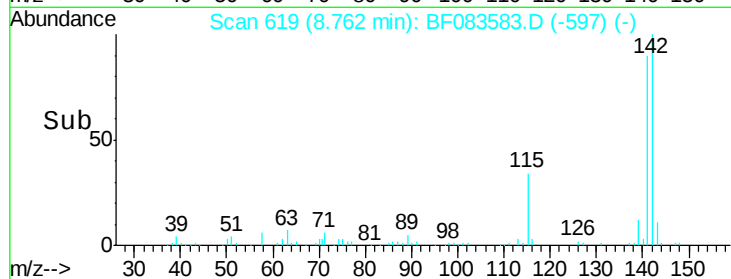
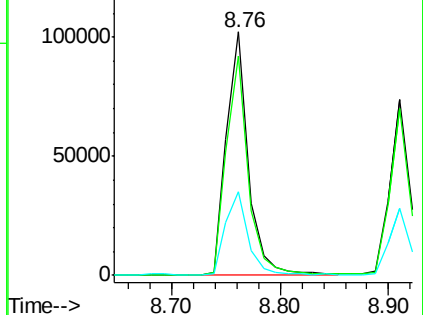
#37
 2-Methylnaphthalene
 Concen: 7.55 ng
 RT: 8.76 min Scan# 619
 Delta R.T. -0.05 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)DL

Tgt Ion:142 Resp: 142454
 Ion Ratio Lower Upper
 142 100
 141 90.1 70.3 105.5
 115 34.3 29.2 43.8

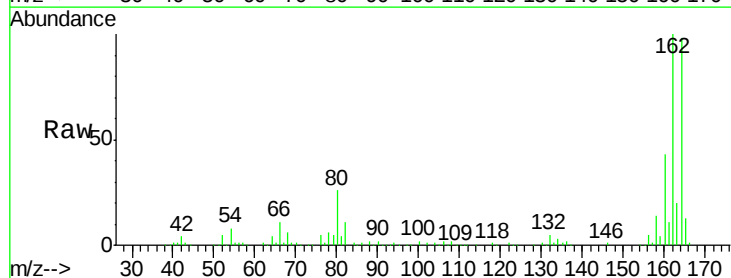


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

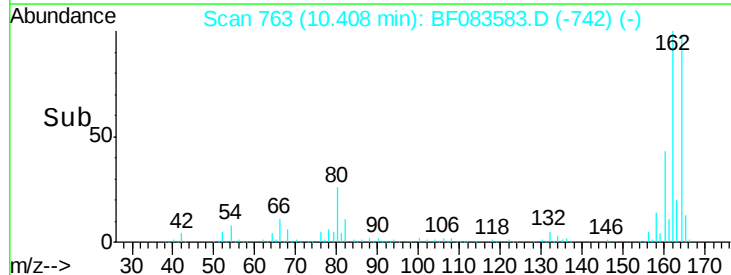
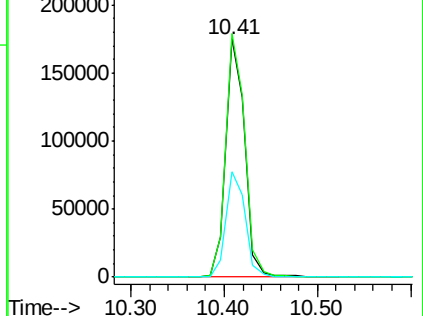


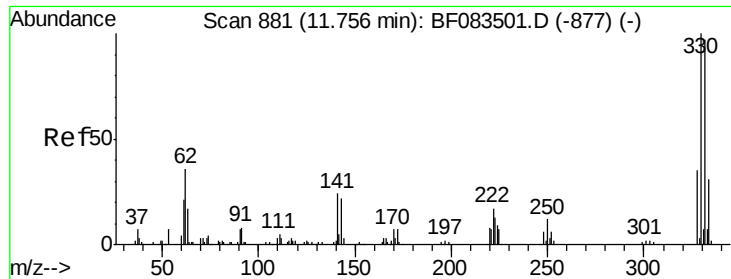
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.41 min Scan# 763
 Delta R.T. -0.06 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

Tgt Ion:164 Resp: 248449
 Ion Ratio Lower Upper
 164 100
 162 102.2 78.8 118.2
 160 44.3 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

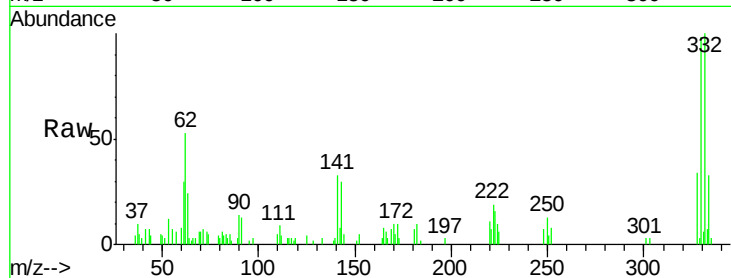




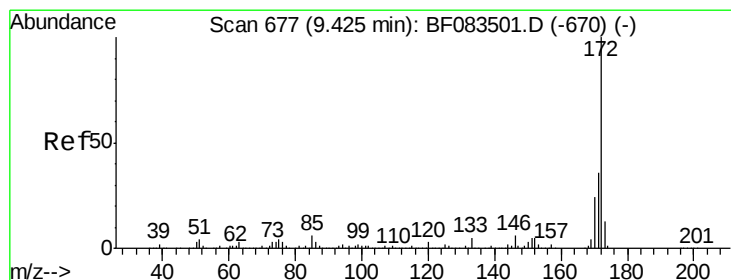
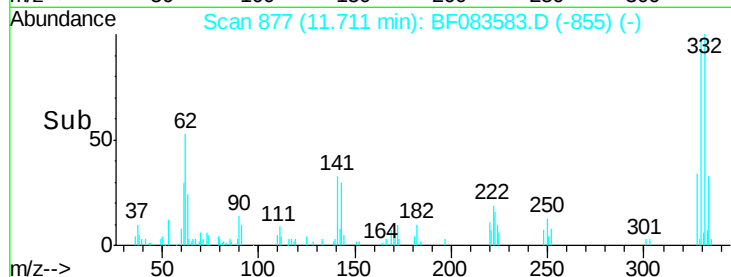
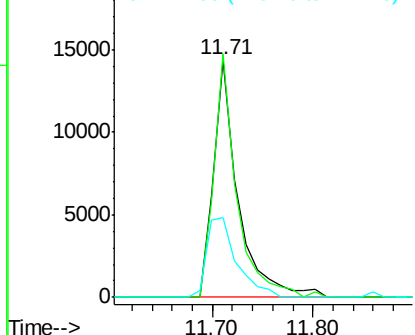
#41
 2,4,6-Tribromophenol
 Concen: 10.67 ng
 RT: 11.71 min Scan# 877
 Delta R.T. -0.05 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)DL

Tgt Ion:330 Resp: 24443
 Ion Ratio Lower Upper
 330 100
 332 95.3 0.0 0.0#
 141 40.8 0.0 0.0#

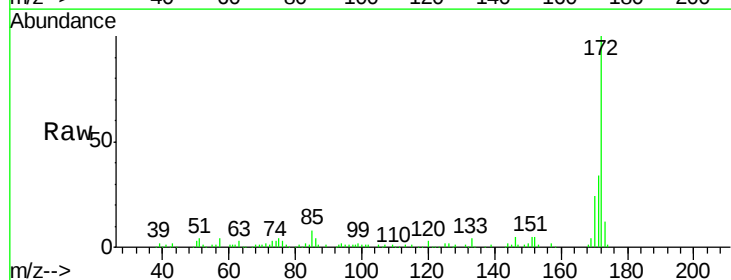


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

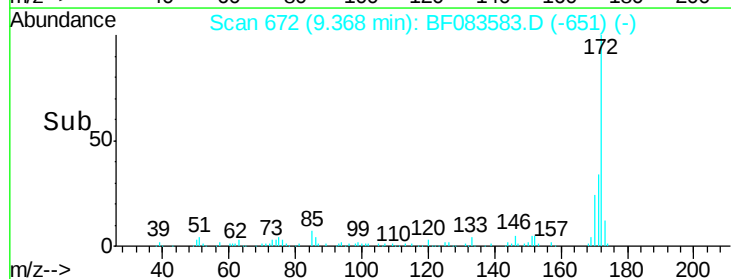
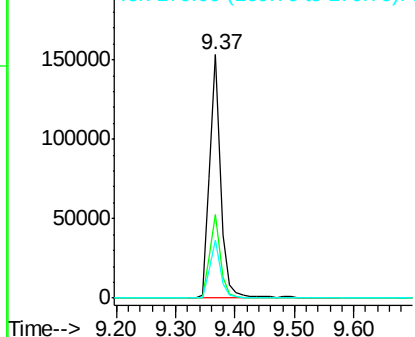


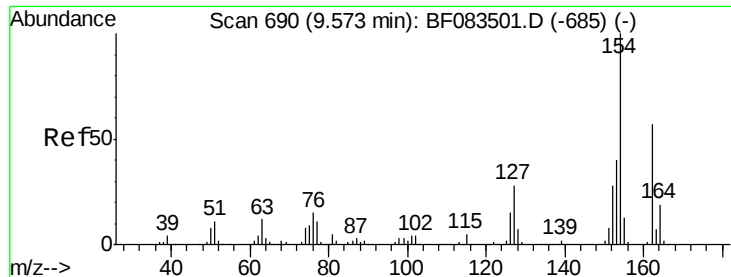
#44
 2-Fluorobiphenyl
 Concen: 10.91 ng
 RT: 9.37 min Scan# 672
 Delta R.T. -0.06 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

Tgt Ion:172 Resp: 199818
 Ion Ratio Lower Upper
 172 100
 171 34.1 28.6 42.8
 170 23.6 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: 2.55 ng

RT: 9.52 min Scan# 685

Delta R.T. -0.06 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(6-11)DL

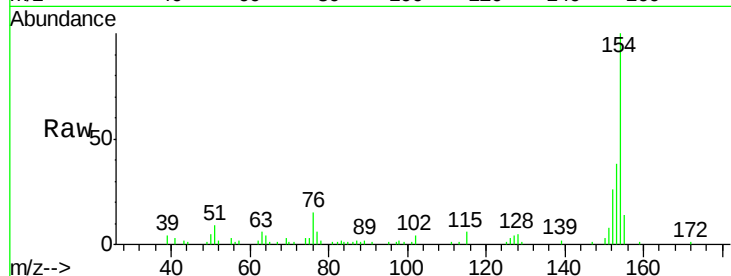
Tgt Ion:154 Resp: 56357

Ion Ratio Lower Upper

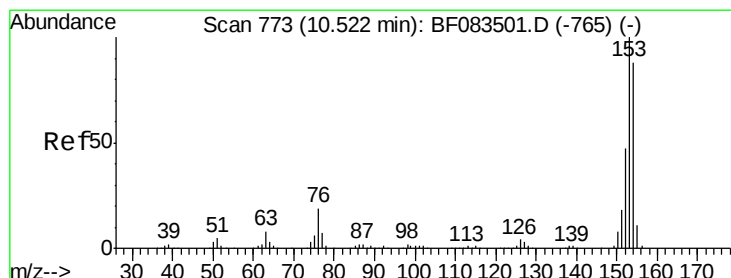
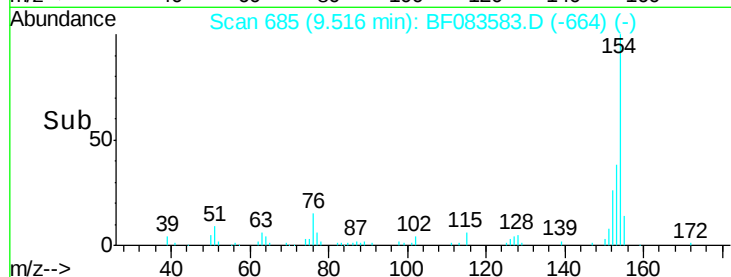
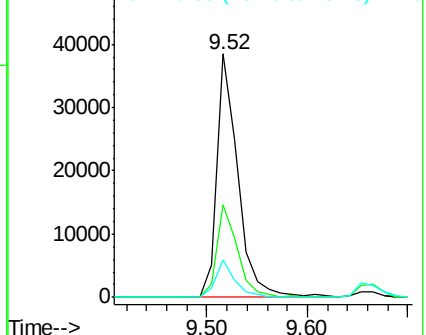
154 100

153 38.1 20.2 60.2

76 15.4 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: 11.66 ng

RT: 10.46 min Scan# 768

Delta R.T. -0.06 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

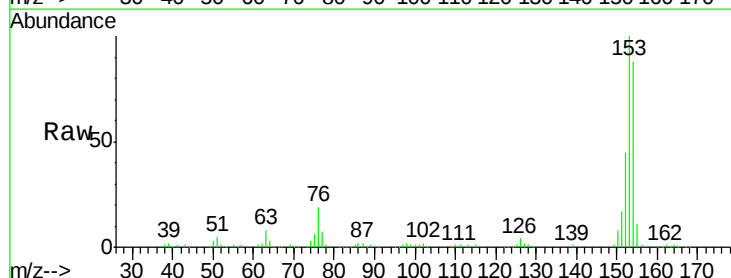
Tgt Ion:154 Resp: 182817

Ion Ratio Lower Upper

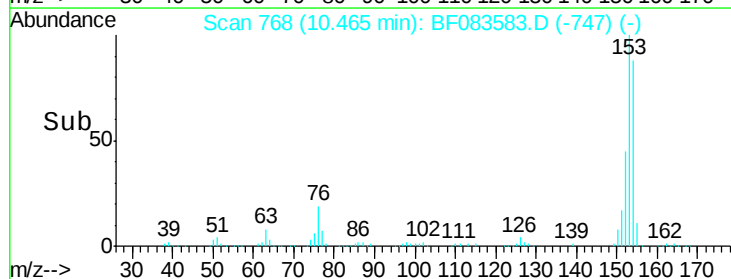
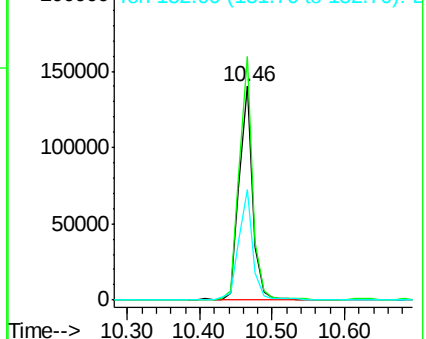
154 100

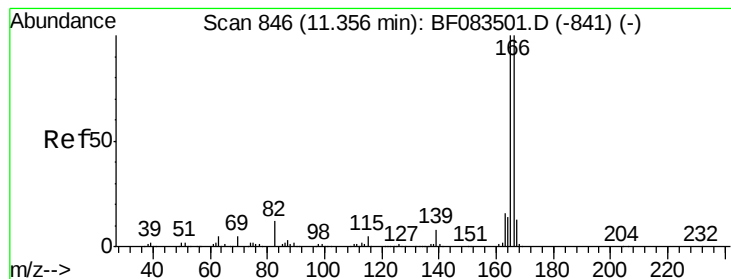
153 114.0 91.4 137.0

152 51.8 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





#57

Fluorene

Concen: 4.15 ng

RT: 11.30 min Scan# 841

Delta R.T. -0.06 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(6-11)DL

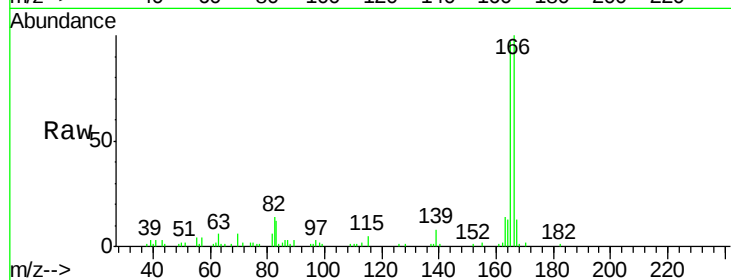
Tgt Ion:166 Resp: 78454

Ion Ratio Lower Upper

166 100

165 97.0 80.0 120.0

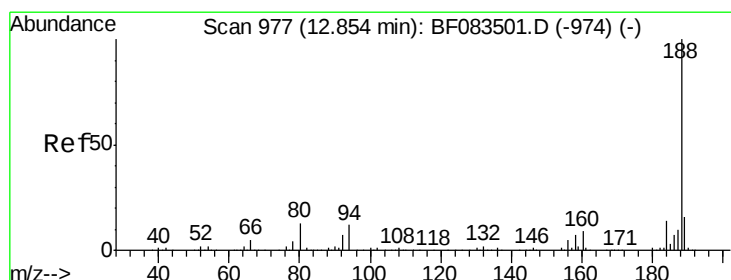
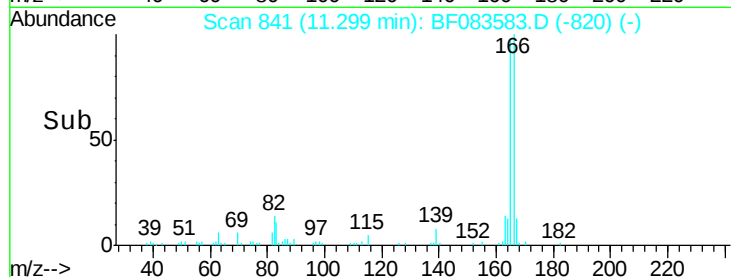
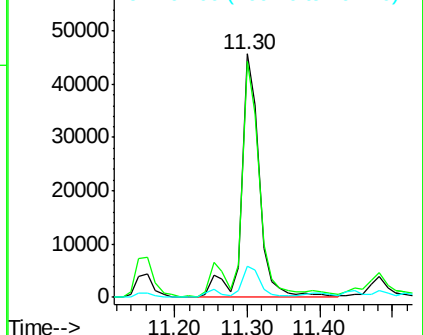
167 12.9 10.6 16.0



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: 12.81 min Scan# 973

Delta R.T. -0.05 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

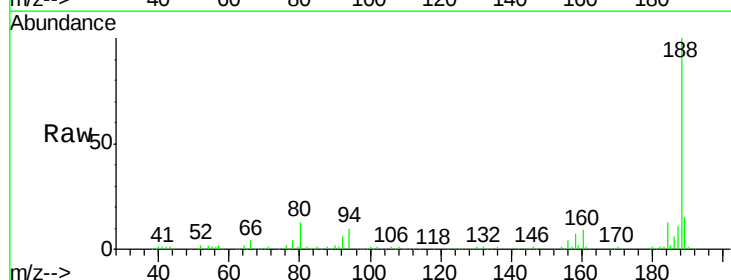
Tgt Ion:188 Resp: 387464

Ion Ratio Lower Upper

188 100

94 10.5 9.4 14.2

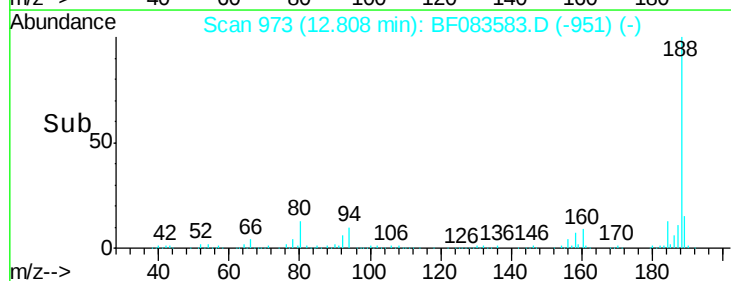
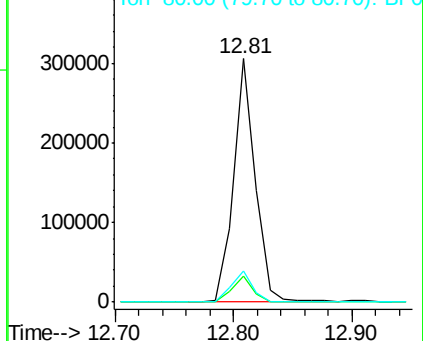
80 12.7 10.6 16.0

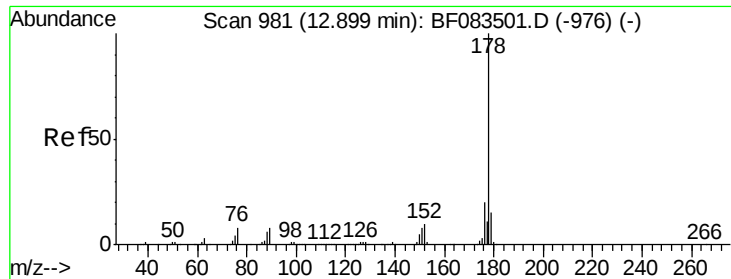


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 17.31 ng

RT: 12.84 min Scan# 976

Delta R.T. -0.06 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(6-11)DL

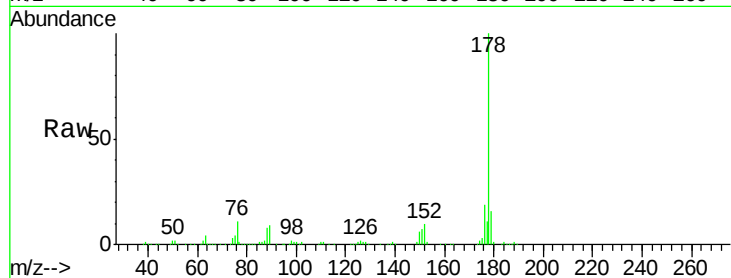
Tgt Ion:178 Resp: 390295

Ion Ratio Lower Upper

178 100

176 19.2 15.7 23.5

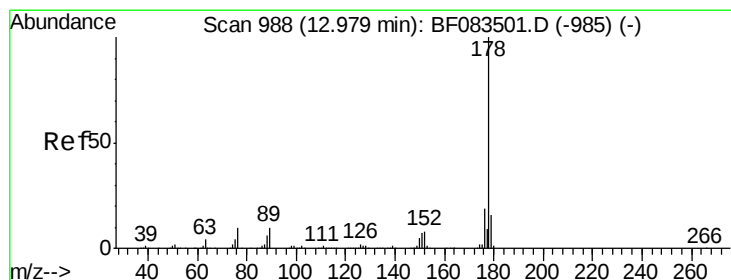
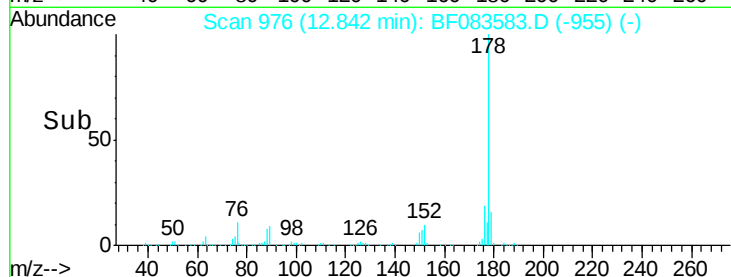
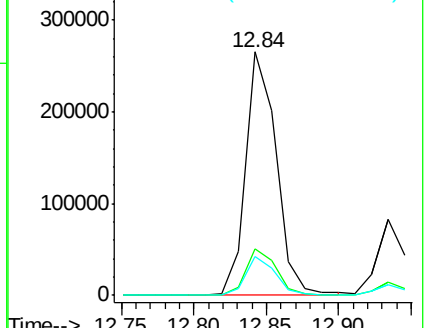
179 16.0 12.2 18.4



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: 5.26 ng

RT: 12.93 min Scan# 984

Delta R.T. -0.05 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

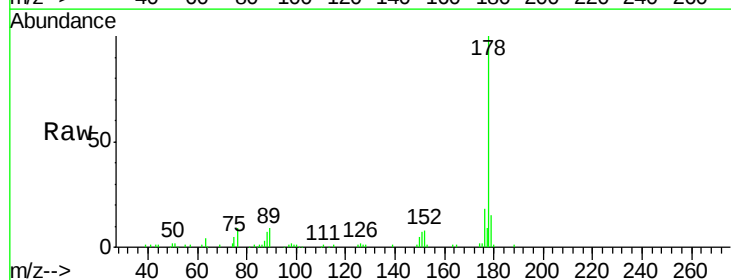
Tgt Ion:178 Resp: 120983

Ion Ratio Lower Upper

178 100

176 17.8 15.2 22.8

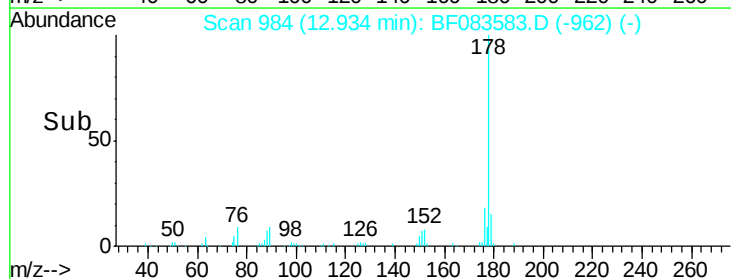
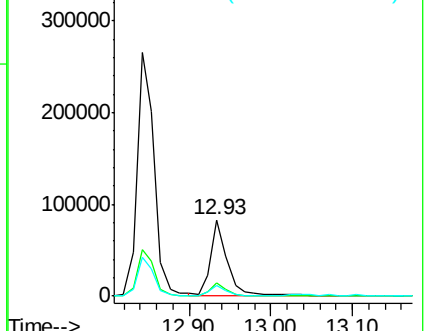
179 14.7 12.6 18.8

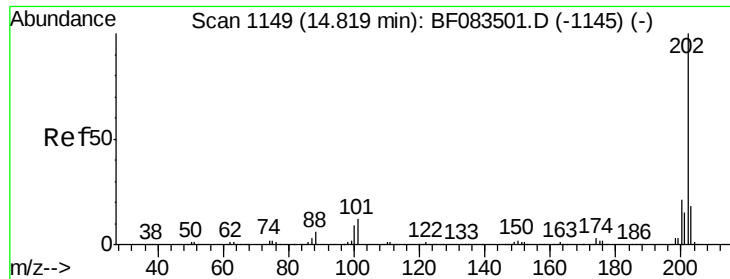


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

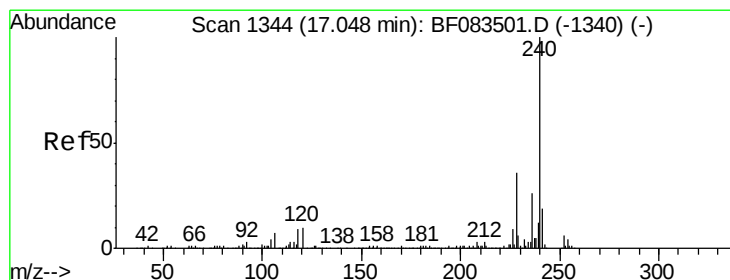
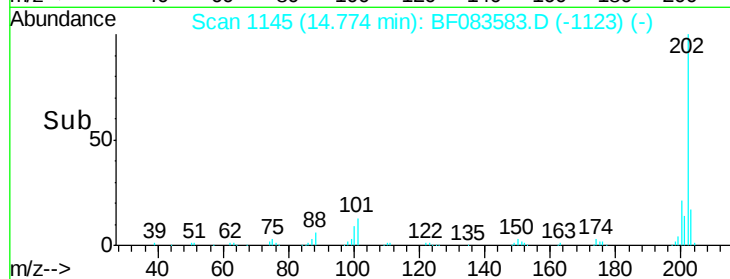
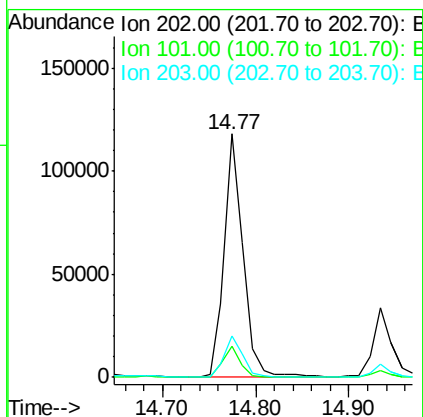
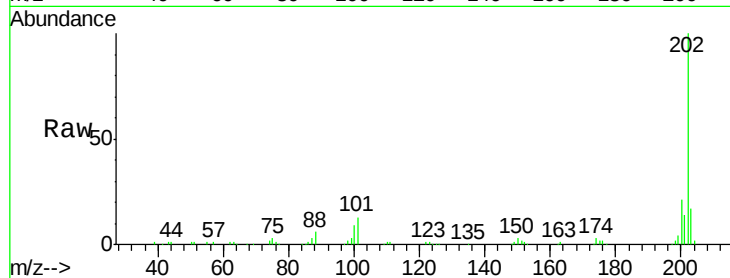




#74
Fluoranthene
 Concen: 7.49 ng
 RT: 14.77 min Scan# 1145
 Delta R.T. -0.05 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

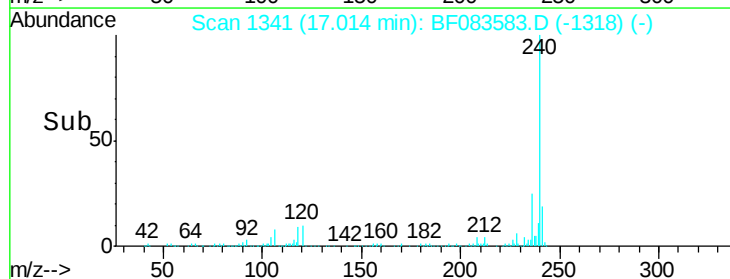
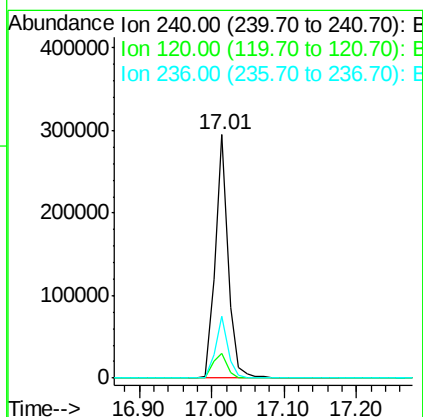
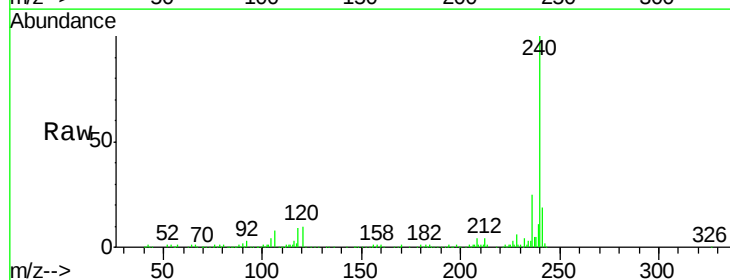
Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)DL

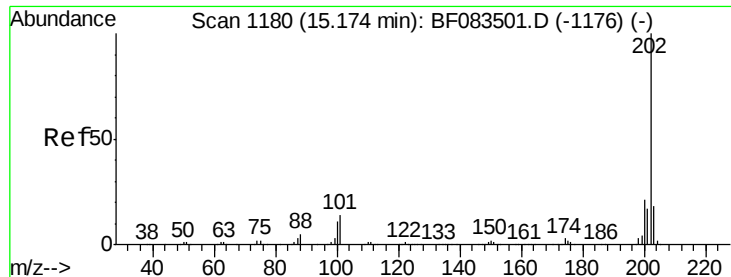
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	31.5
203	16.9	0.0	37.6



#75
Chrysene-d12
 Concen: 20.00 ng
 RT: 17.01 min Scan# 1341
 Delta R.T. -0.03 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.1	12.1
236	25.2	20.8	31.2

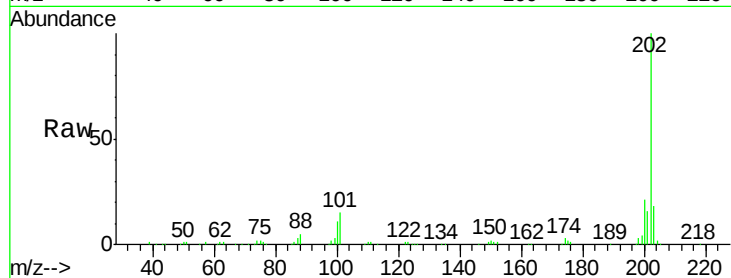




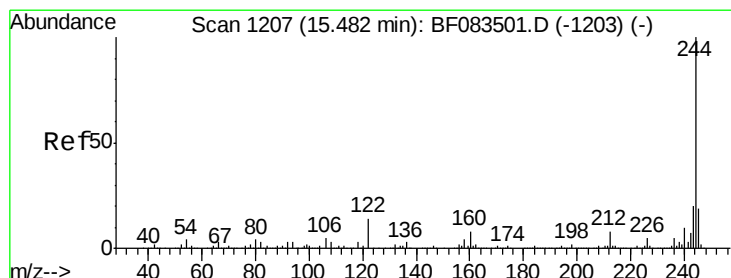
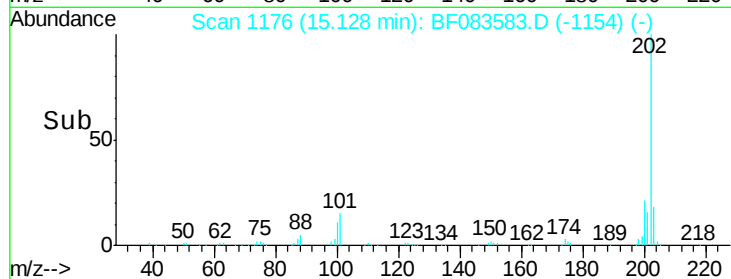
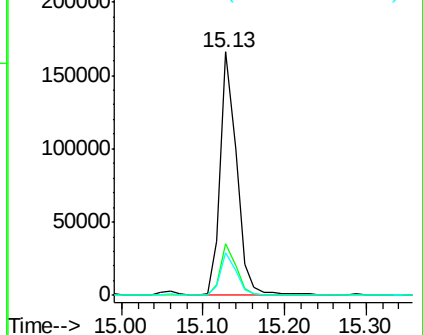
#77
 Pyrene
 Concen: 8.42 ng
 RT: 15.13 min Scan# 1176
 Delta R.T. -0.05 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(6-11)DL

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.7	14.3	21.5

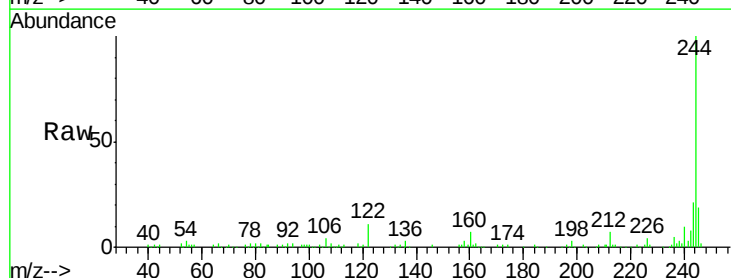


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

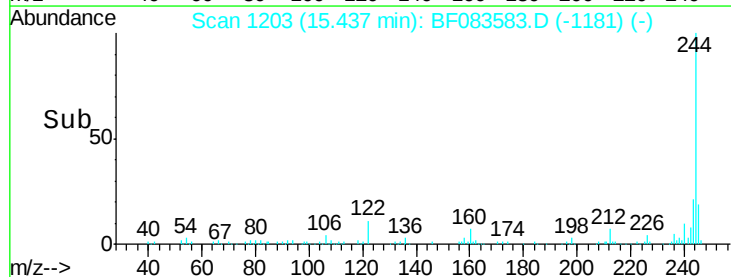
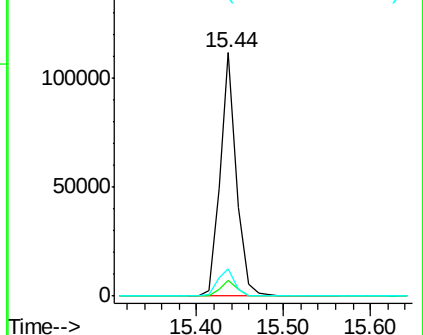


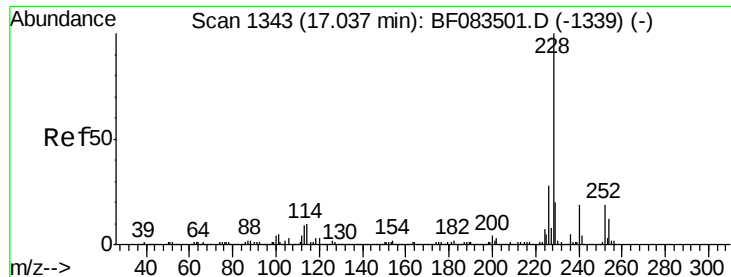
#78
 Terphenyl-d14
 Concen: 8.95 ng
 RT: 15.44 min Scan# 1203
 Delta R.T. -0.05 min
 Lab File: BF083583.D
 Acq: 8 Dec 2015 5:43

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.1	9.1
122	11.3	11.0	16.6



Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.62 ng

RT: 17.05 min Scan# 1344

Delta R.T. 0.01 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(6-11)DL

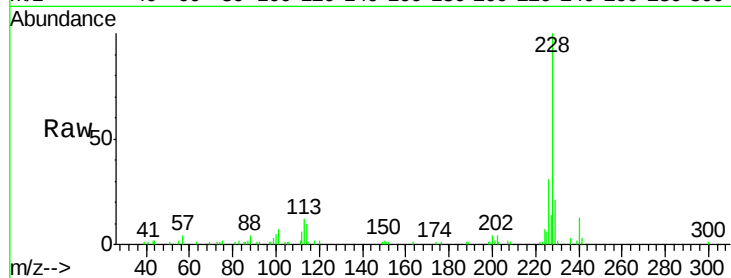
Tgt Ion:228 Resp: 56059

Ion Ratio Lower Upper

228 100

226 31.3 22.3 33.5

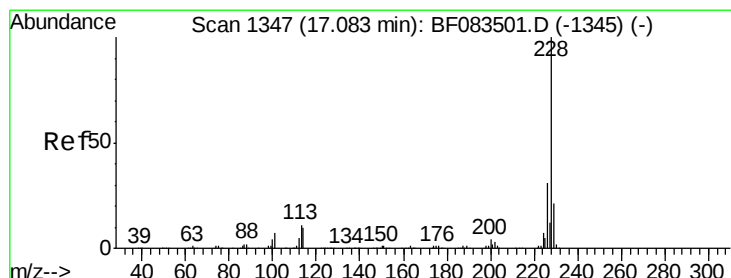
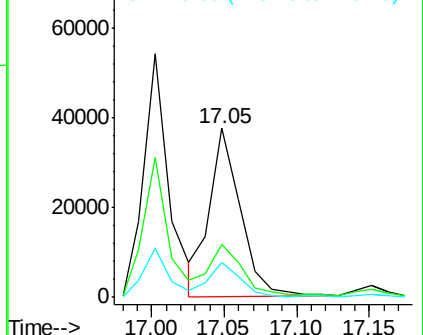
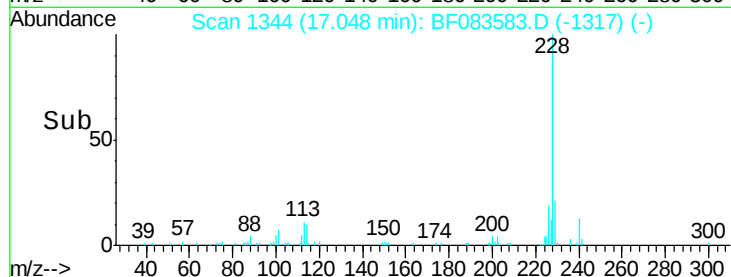
229 20.9 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 2.69 ng

RT: 17.05 min Scan# 1344

Delta R.T. -0.03 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

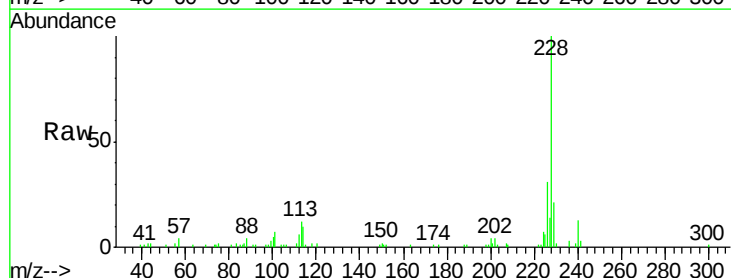
Tgt Ion:228 Resp: 57151

Ion Ratio Lower Upper

228 100

226 31.3 24.7 37.1

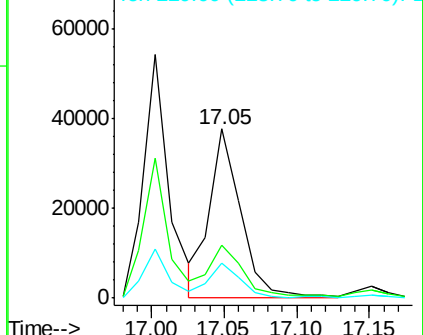
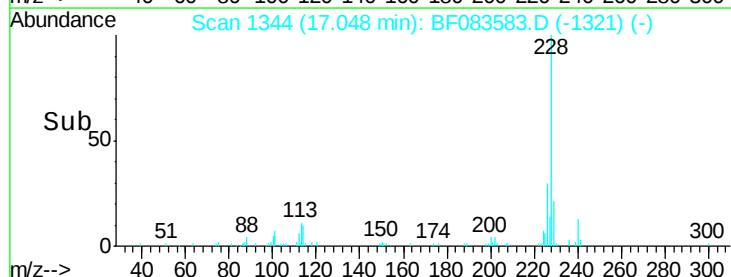
229 20.9 16.3 24.5

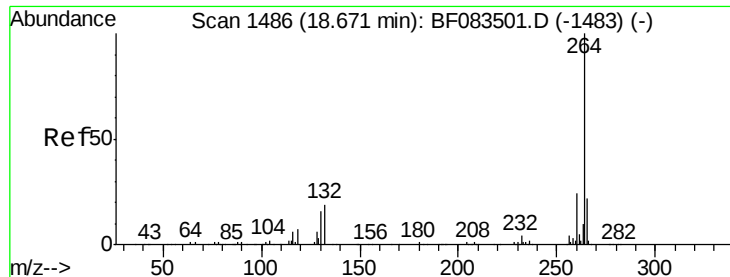


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

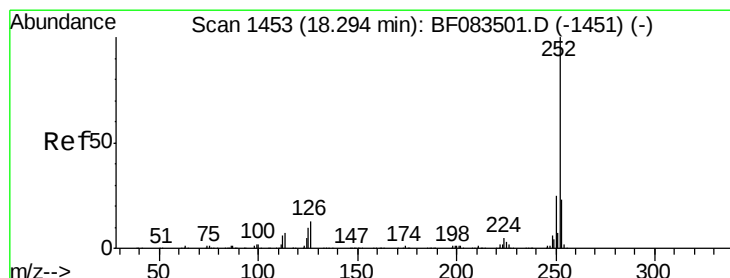
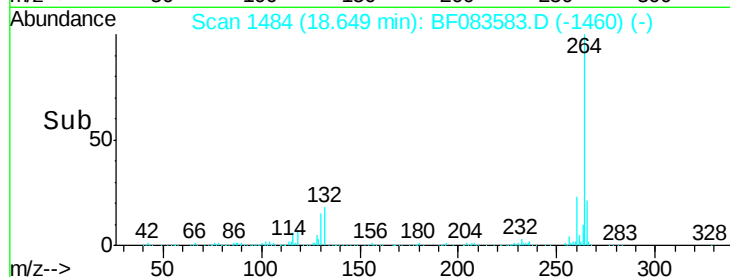
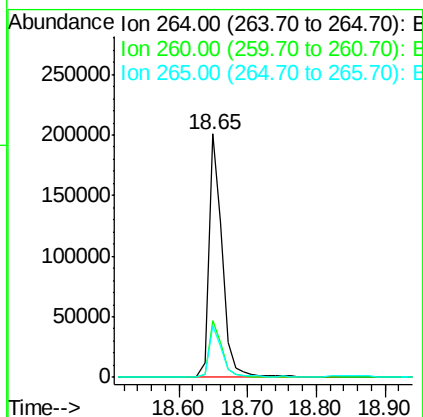
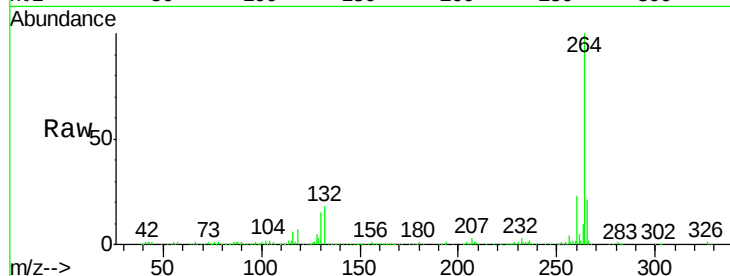




#86
Perylene-d12
Concen: 20.00 ng
RT: 18.65 min Scan# 1484
Delta R.T. -0.02 min
Lab File: BF083583.D
Acq: 8 Dec 2015 5:43

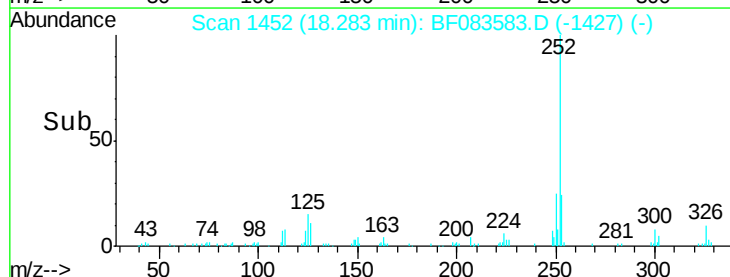
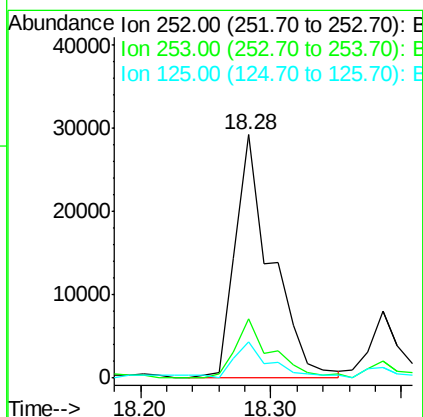
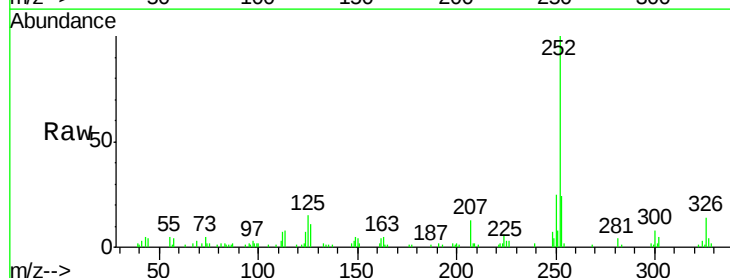
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(6-11)DL

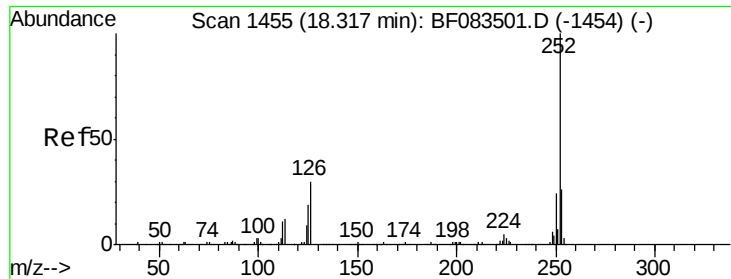
Tgt Ion: 264 Resp: 271411
Ion Ratio Lower Upper
264 100
260 23.2 19.4 29.0
265 21.3 17.8 26.6



#87
Benzo(b)fluoranthene
Concen: 3.69 ng
RT: 18.28 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BF083583.D
Acq: 8 Dec 2015 5:43

Tgt Ion: 252 Resp: 56245
Ion Ratio Lower Upper
252 100
253 24.3 18.2 27.4
125 15.0 8.2 12.4#





#88

Benzo(k)fluoranthene

Concen: 3.60 ng

RT: 18.28 min Scan# 1452

Delta R.T. -0.03 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

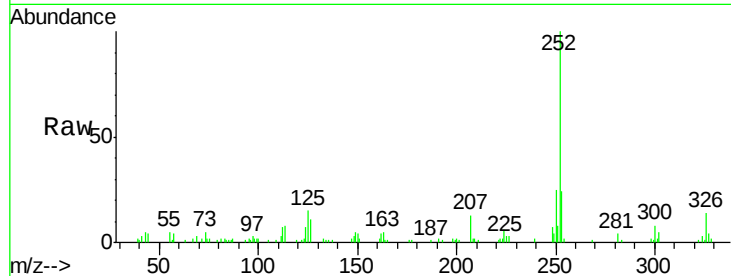
Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(6-11)DL

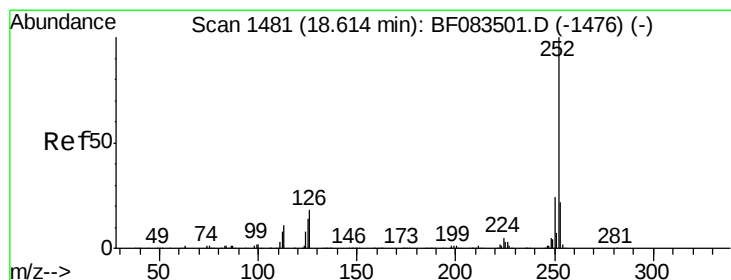
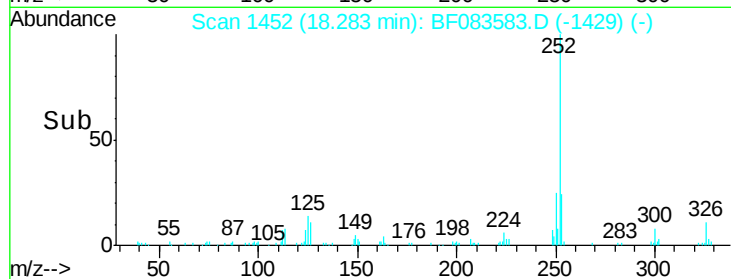
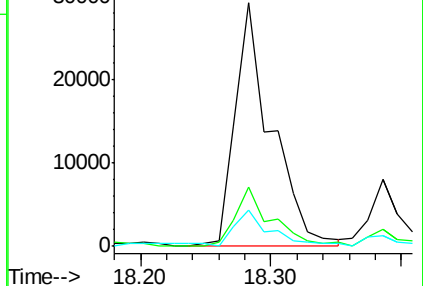
Tgt Ion:	252	Resp:	56245
Ion Ratio	Lower	Upper	
252	100		
253	24.3	18.6	27.8
125	15.0	11.5	17.3



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: 3.19 ng

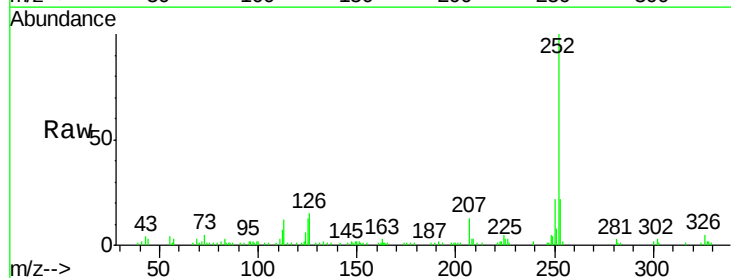
RT: 18.60 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF083583.D

Acq: 8 Dec 2015 5:43

Tgt Ion:	252	Resp:	47363
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.5	26.3
125	12.5	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

