

Data Path : Z:\HPCHEM1\BNA_F\Data\BF121015\
 Data File : BF083695.D
 Acq On : 11 Dec 2015 1:03
 Operator : UM/IZ
 Sample : G4561-08DL 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CWC-MISC-8-20151207MSD

Quant Time: Dec 11 04:06:53 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	5.61	152	141463	20.00	ng	-0.09
21) Naphthalene-d8	7.50	136	532355	20.00	ng	-0.10
38) Acenaphthene-d10	10.29	164	238892	20.00	ng	-0.09
63) Phenanthrene-d10	12.71	188	376249	20.00	ng	-0.08
75) Chrysene-d12	16.92	240	319086	20.00	ng	-0.07
86) Perylene-d12	18.57	264	286752	20.00	ng	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	3.92	112	228344	24.48	ng	-0.06
7) Phenol-d6	5.20	99	358539	28.77	ng	-0.08
23) Nitrobenzene-d5	6.45	82	208496	18.27	ng	-0.08
41) 2,4,6-Tribromophenol	11.61	330	53331	25.06	ng	-0.08
44) 2-Fluorobiphenyl	9.25	172	280063	16.50	ng	-0.09
78) Terphenyl-d14	15.31	244	211138	15.57	ng	-0.10

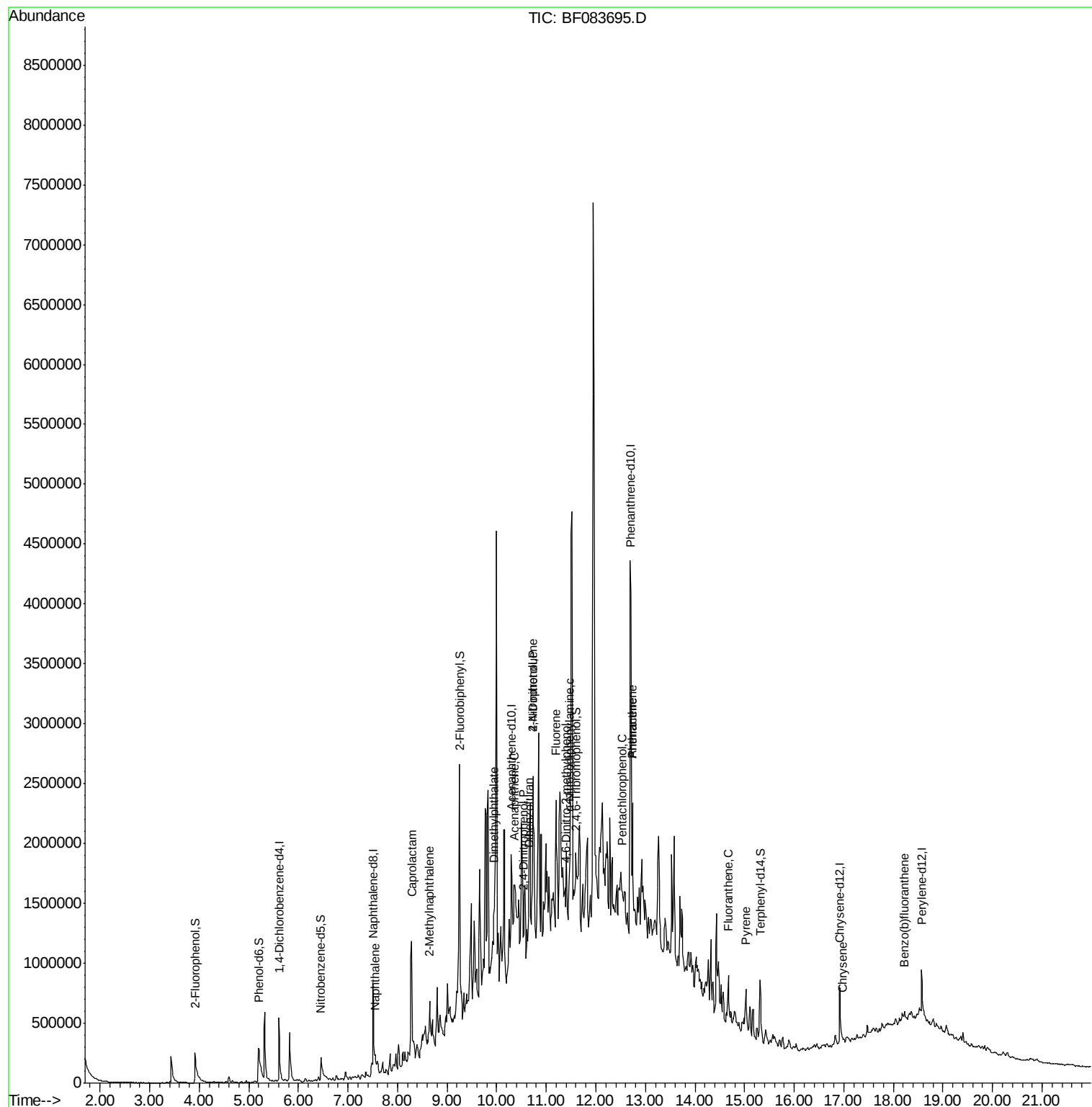
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.55	128	120165	4.26	ng	# 96
35) Caprolactam	8.28	113	32211	13.47	ng	# 58
37) 2-Methylnaphthalene	8.65	142	113051	6.38	ng	# 96
42) 2,4,6-Trichlorophenol	9.15	196	2028	Below Cal		# 13
49) Dimethylphthalate	9.95	163	66975	3.52	ng	# 98
51) Acenaphthene	10.35	154	58940	3.98	ng	# 94
53) 2,4-Dinitrophenol	10.54	184	209	5.70	ng	# 1
54) Dibenzofuran	10.65	168	55118	2.69	ng	# 50
55) 4-Nitrophenol	10.73	139	22738	12.38	ng	# 50
56) 2,4-Dinitrotoluene	10.73	165	24247	4.66	ng	# 52
57) Fluorene	11.20	166	96113	5.37	ng	# 90
64) 4,6-Dinitro-2-methylphenol	11.39	198	1409	2.47	ng	# 1
65) n-Nitrosodiphenylamine	11.47	169	120329	9.69	ng	# 49
69) Pentachlorophenol	12.52	266	278	8.38	ng	# 18
70) Phenanthrene	12.74	178	592550	27.41	ng	# 97
71) Anthracene	12.74	178	592550	26.46	ng	# 98
74) Fluoranthene	14.67	202	282669	12.78	ng	# 100
77) Pyrene	15.03	202	232374	10.12	ng	# 96
82) Chrysene	16.97	228	45683	2.44	ng	# 86
87) Benzo(b)fluoranthene	18.23	252	33767	2.07	ng	# 56

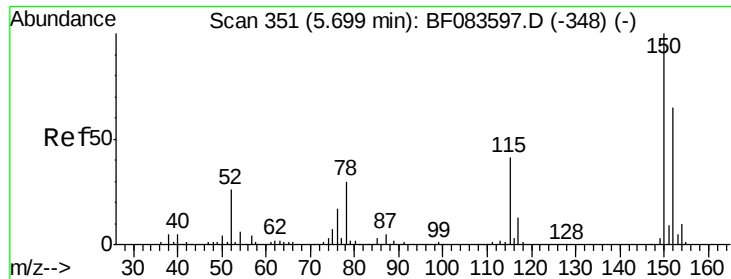
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_F\Data\BF121015\
Data File : BF083695.D
Acq On : 11 Dec 2015 1:03
Operator : UM/IZ
Sample : G4561-08DL 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CWC-MISC-8-20151207MSD

Quant Time: Dec 11 04:06:53 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.61 min Scan# 343

Delta R.T. -0.09 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

Instrument :

BNA_F

ClientSampleId :

CWC-MISC-8-20151207MSD

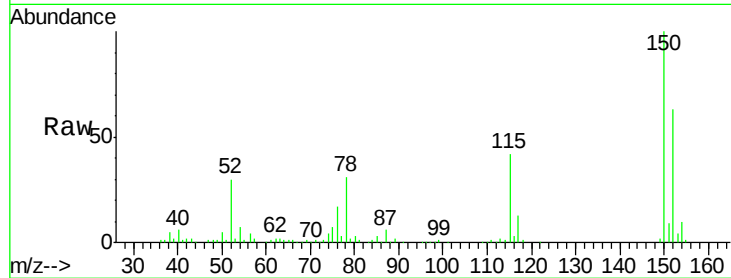
Tgt Ion:152 Resp: 141463

Ion Ratio Lower Upper

152 100

150 158.0 126.5 189.7

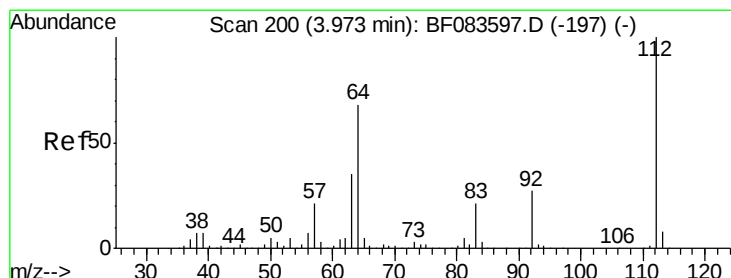
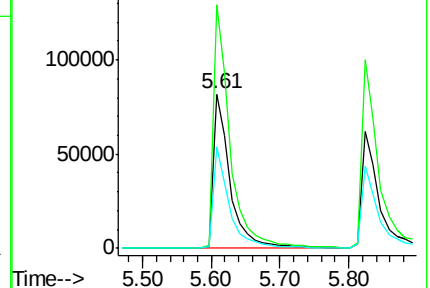
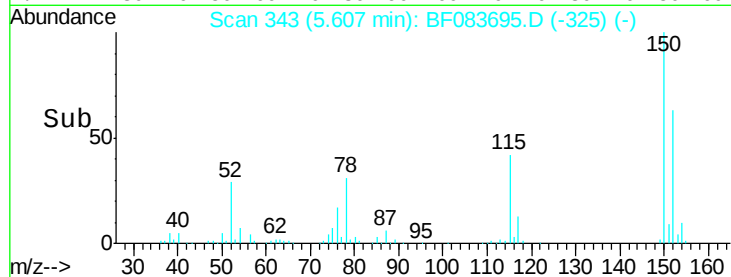
115 66.2 52.3 78.5



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: 24.48 ng

RT: 3.92 min Scan# 195

Delta R.T. -0.06 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

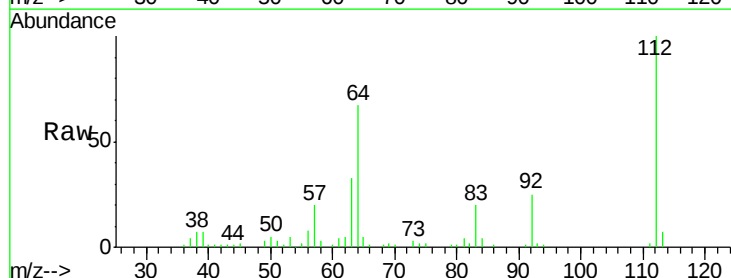
Tgt Ion:112 Resp: 228344

Ion Ratio Lower Upper

112 100

64 66.9 50.5 75.7

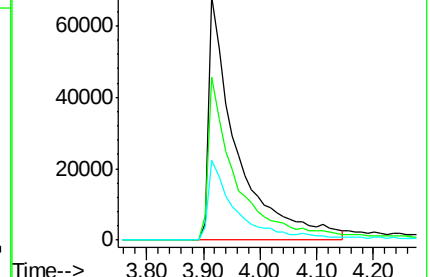
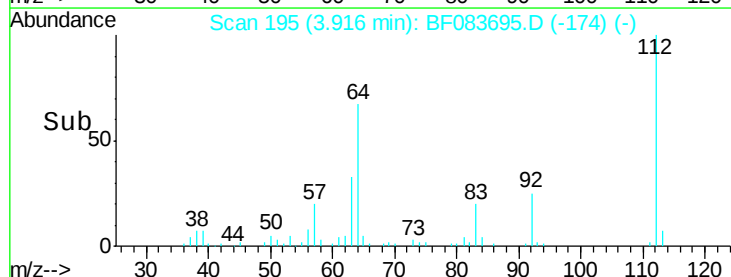
63 33.0 25.8 38.6

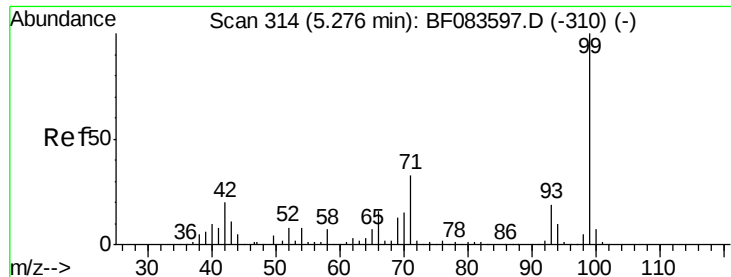


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 28.77 ng

RT: 5.20 min Scan# 307

Delta R.T. -0.08 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

Instrument :

BNA_F

ClientSampleId :

CWC-MISC-8-20151207MSD

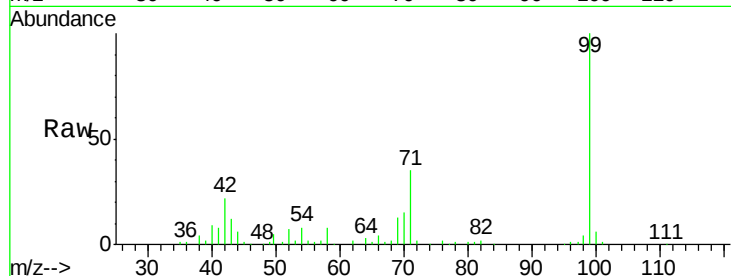
Tgt Ion: 99 Resp: 358539

Ion Ratio Lower Upper

99 100

42 21.7 17.3 25.9

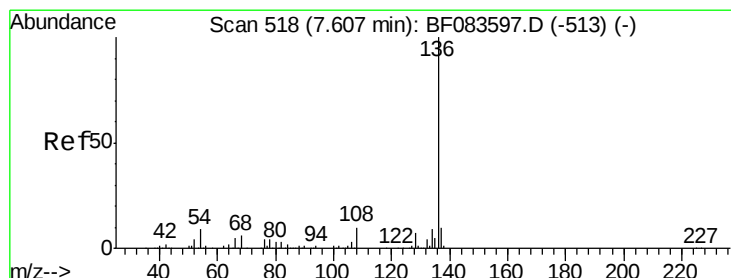
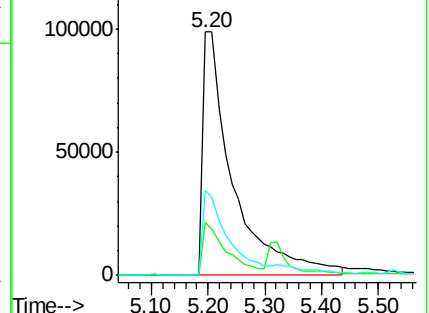
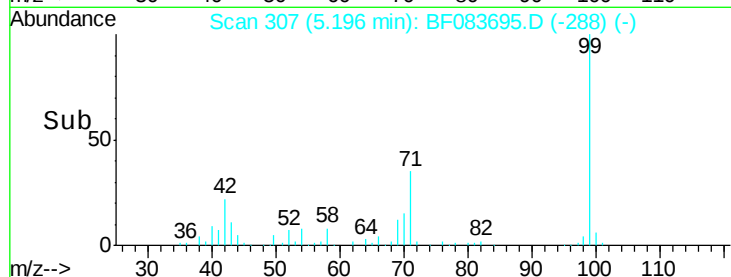
71 35.1 26.6 40.0



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: 7.50 min Scan# 509

Delta R.T. -0.10 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

Tgt Ion: 136 Resp: 532355

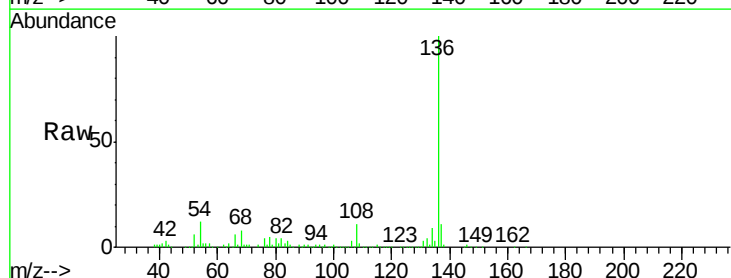
Ion Ratio Lower Upper

136 100

137 11.5 8.7 13.1

54 11.6 7.8 11.6

68 7.9 5.7 8.5

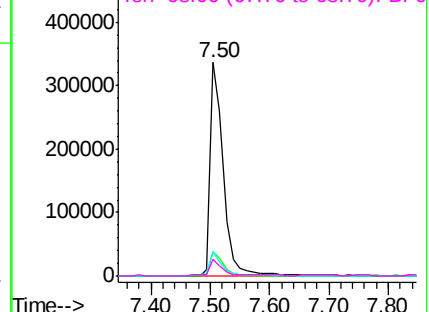
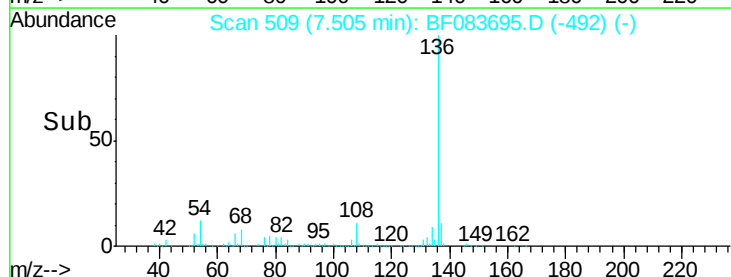


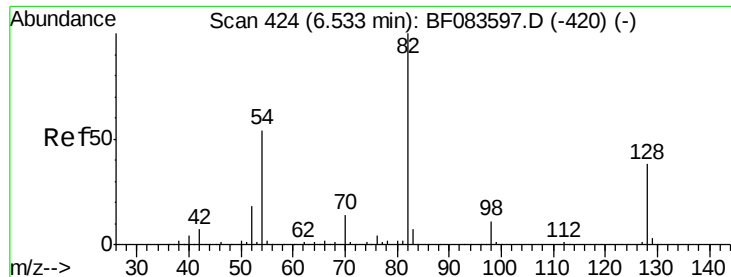
Abundance Ion 136.00 (135.70 to 136.70): E

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

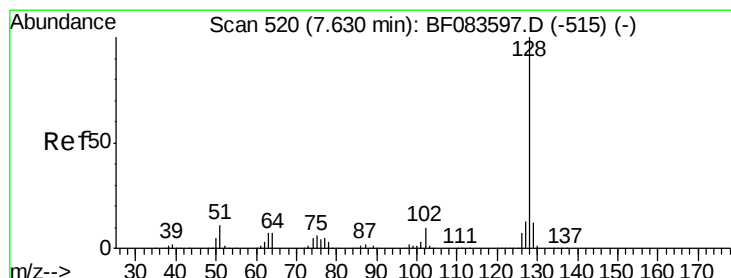
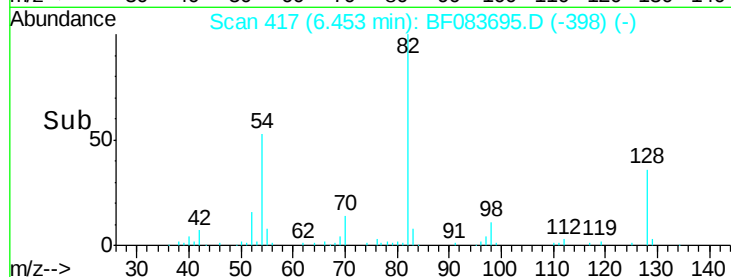
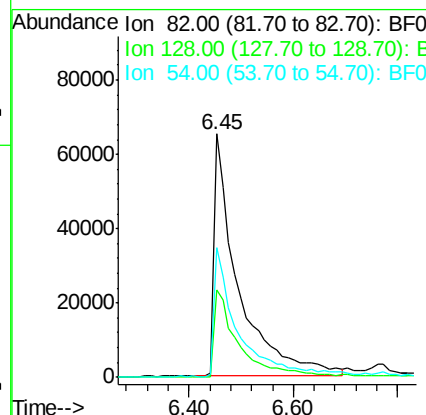
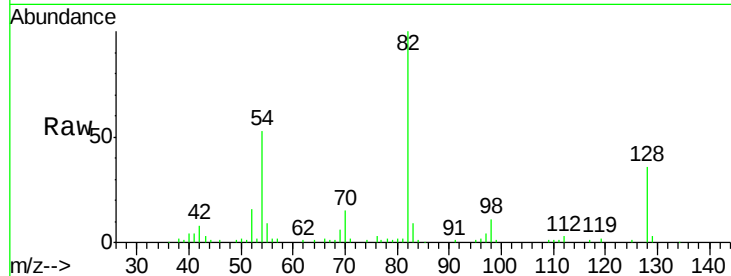




#23
Nitrobenzene-d5
Concen: 18.27 ng
RT: 6.45 min Scan# 417
Delta R.T. -0.08 min
Lab File: BF083695.D
Acq: 11 Dec 2015 1:03

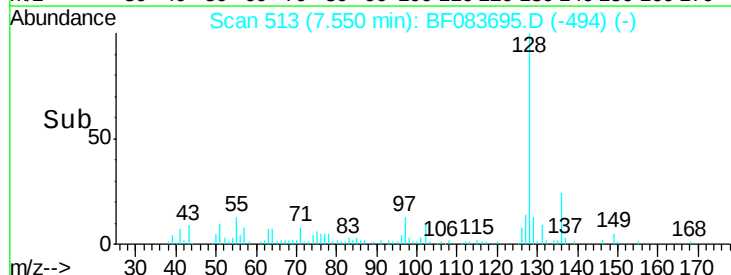
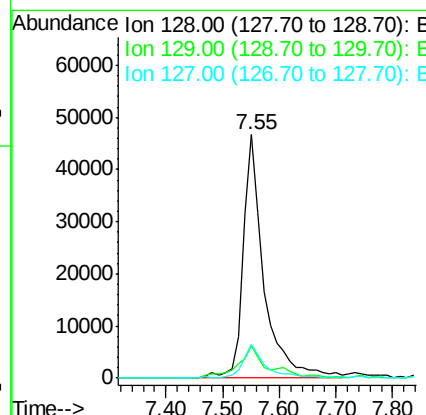
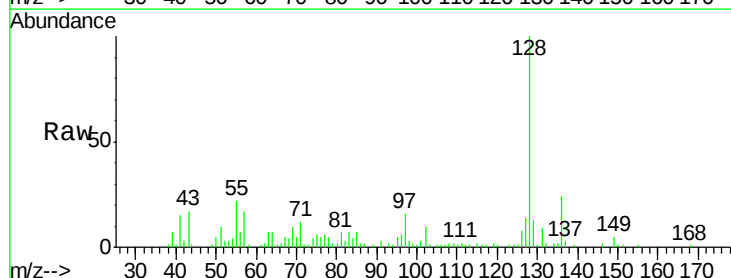
Instrument :
BNA_F
ClientSampleId :
CWC-MISC-8-20151207MSD

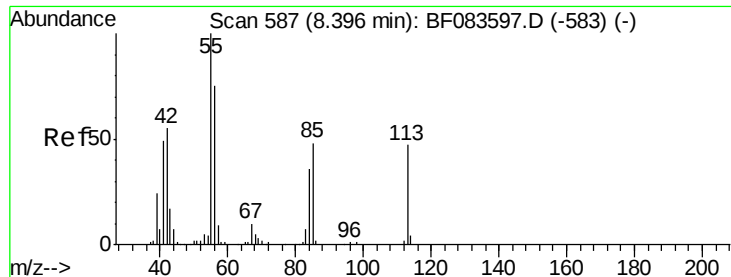
Tgt Ion: 82 Resp: 208496
Ion Ratio Lower Upper
82 100
128 35.7 30.7 46.1
54 53.1 42.5 63.7



#31
Naphthalene
Concen: 4.26 ng
RT: 7.55 min Scan# 513
Delta R.T. -0.08 min
Lab File: BF083695.D
Acq: 11 Dec 2015 1:03

Tgt Ion: 128 Resp: 120165
Ion Ratio Lower Upper
128 100
129 13.2 8.6 13.0#
127 13.8 10.6 16.0

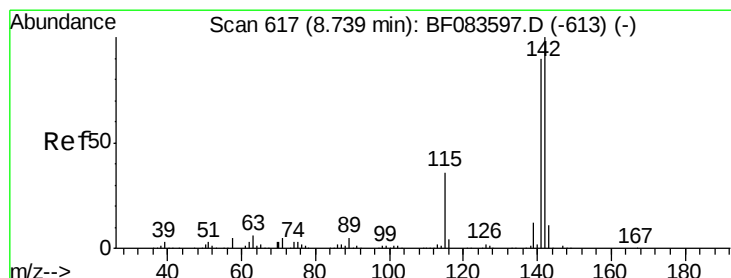
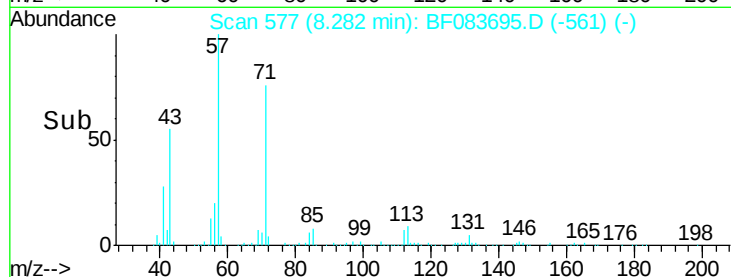
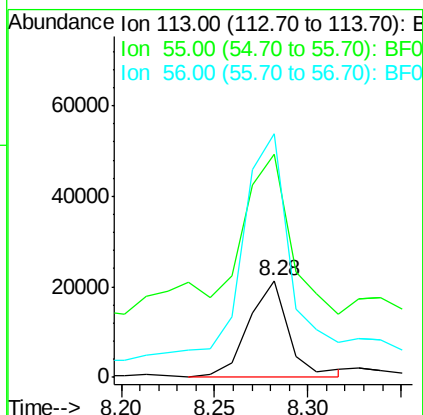
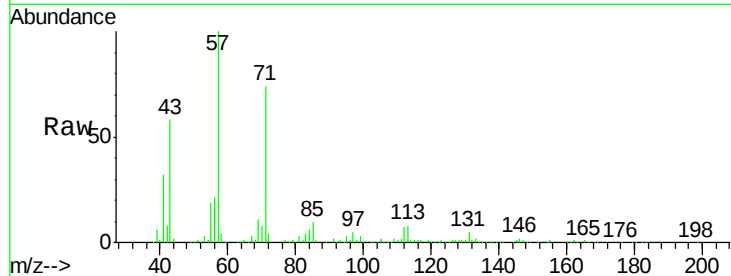




#35
 Caprolactam
 Concen: 13.47 ng
 RT: 8.28 min Scan# 577
 Delta R.T. -0.11 min
 Lab File: BF083695.D
 Acq: 11 Dec 2015 1:03

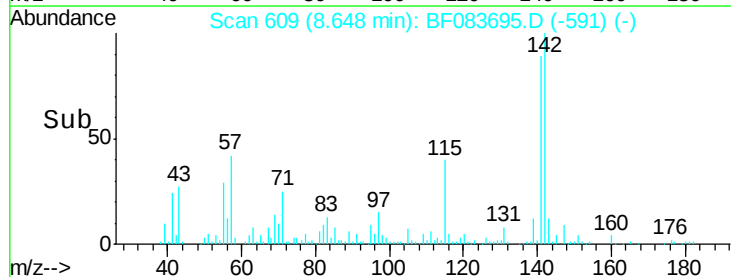
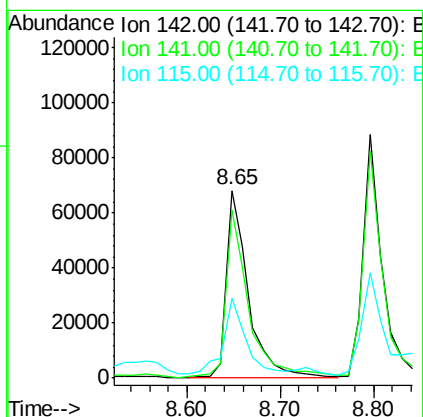
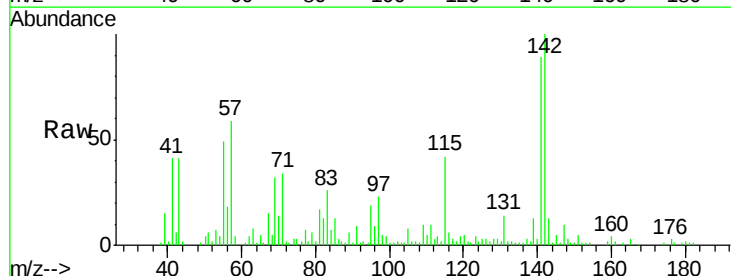
Instrument :
 BNA_F
 ClientSampleId :
 CWC-MISC-8-20151207MSD

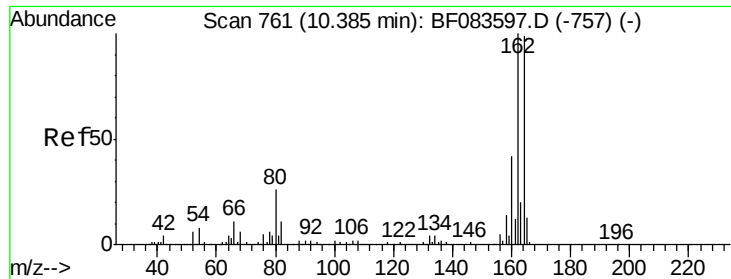
Tgt Ion:113 Resp: 32211
 Ion Ratio Lower Upper
 113 100
 55 232.0 189.7 229.7#
 56 252.5 130.7 170.7#



#37
 2-Methylnaphthalene
 Concen: 6.38 ng
 RT: 8.65 min Scan# 609
 Delta R.T. -0.09 min
 Lab File: BF083695.D
 Acq: 11 Dec 2015 1:03

Tgt Ion:142 Resp: 113051
 Ion Ratio Lower Upper
 142 100
 141 89.4 70.3 105.5
 115 42.4 29.2 43.8

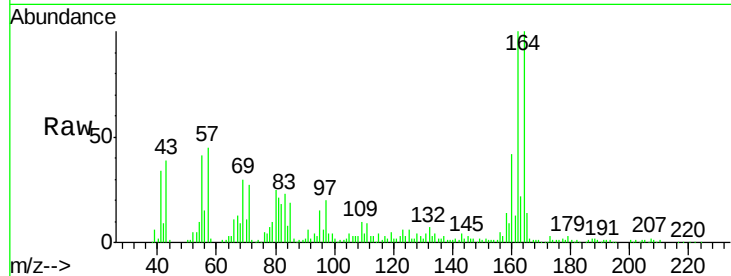




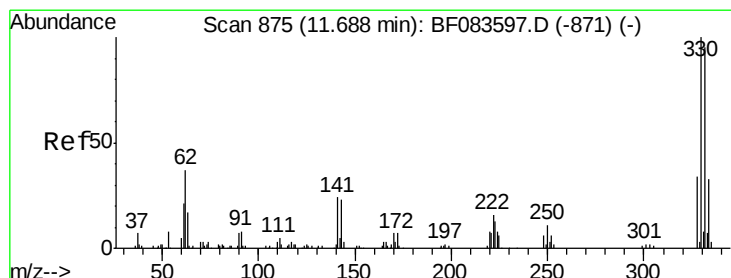
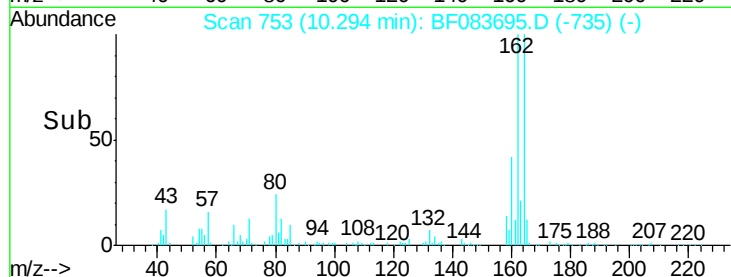
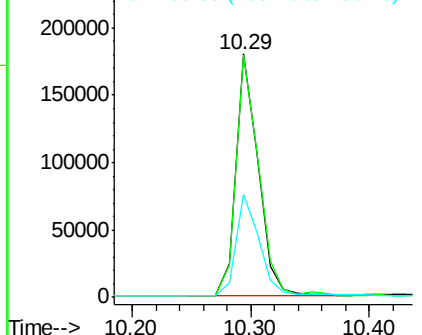
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.29 min Scan# 753
 Delta R.T. -0.09 min
 Lab File: BF083695.D
 Acq: 11 Dec 2015 1:03

Instrument :
 BNA_F
 ClientSampleId :
 CWC-MISC-8-20151207MSD

Tgt Ion:164 Resp: 238892
 Ion Ratio Lower Upper
 164 100
 162 99.8 78.8 118.2
 160 42.1 33.4 50.2

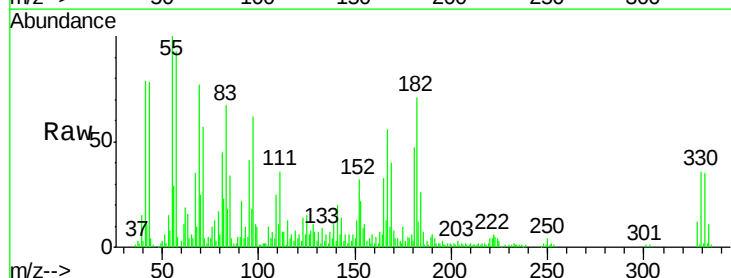


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

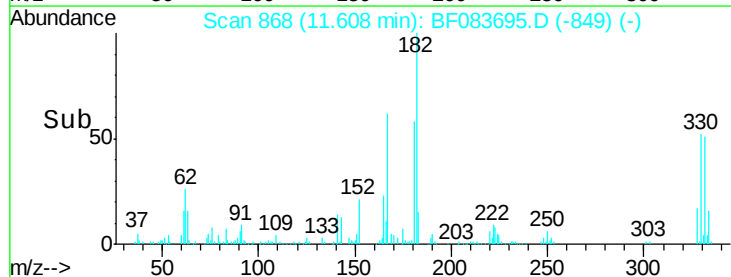
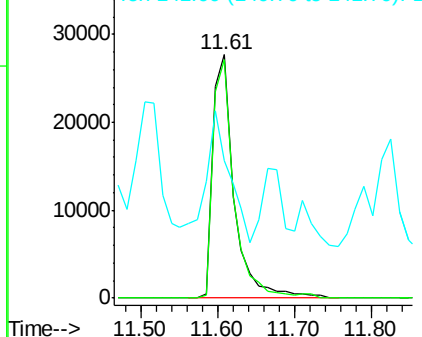


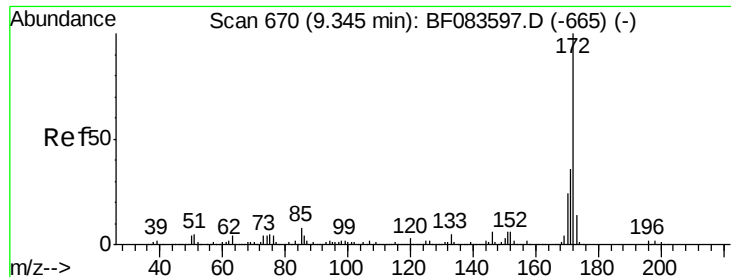
#41
 2,4,6-Tribromophenol
 Concen: 25.06 ng
 RT: 11.61 min Scan# 868
 Delta R.T. -0.08 min
 Lab File: BF083695.D
 Acq: 11 Dec 2015 1:03

Tgt Ion:330 Resp: 53331
 Ion Ratio Lower Upper
 330 100
 332 97.7 0.0 0.0#
 141 60.3 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: 16.50 ng

RT: 9.25 min Scan# 662

Delta R.T. -0.09 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

Instrument :

BNA_F

ClientSampleId :

CWC-MISC-8-20151207MSD

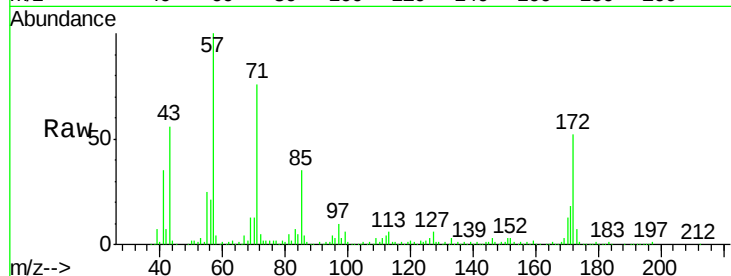
Tgt Ion:172 Resp: 280063

Ion Ratio Lower Upper

172 100

171 35.1 28.6 42.8

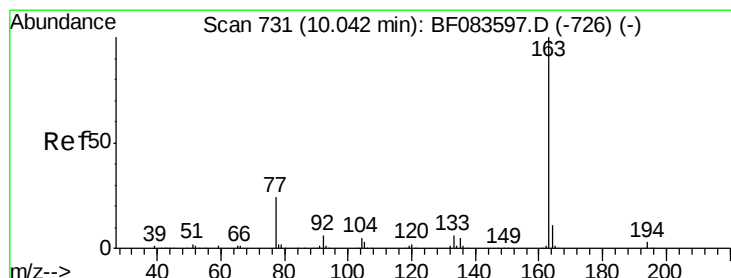
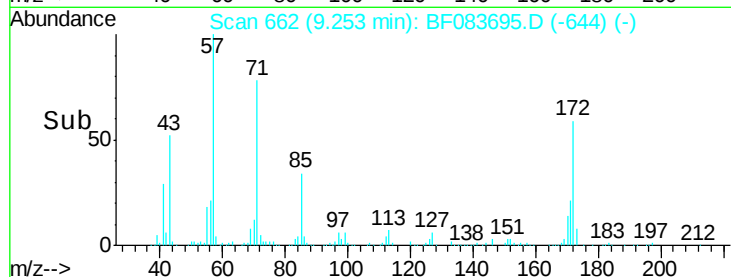
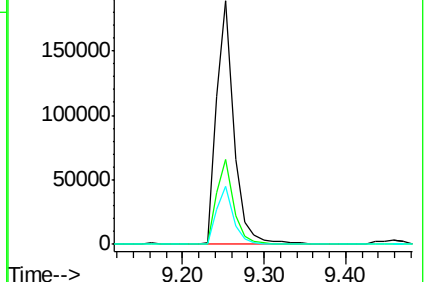
170 24.1 19.4 29.0



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



#49

Dimethylphthalate

Concen: 3.52 ng

RT: 9.95 min Scan# 723

Delta R.T. -0.09 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

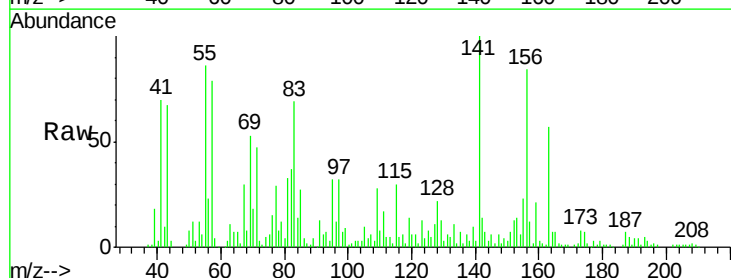
Tgt Ion:163 Resp: 66975

Ion Ratio Lower Upper

163 100

194 4.7 2.8 4.2#

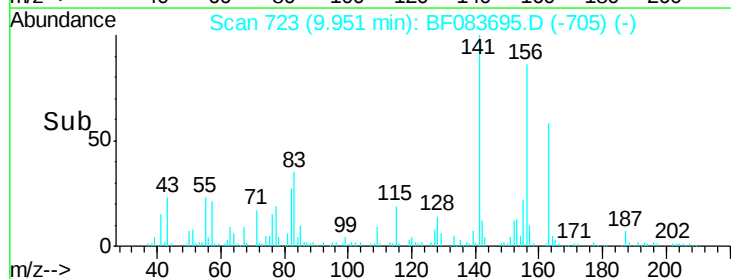
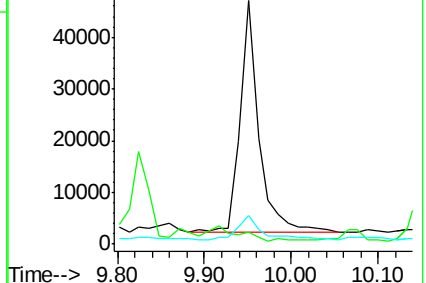
164 11.5 8.6 13.0

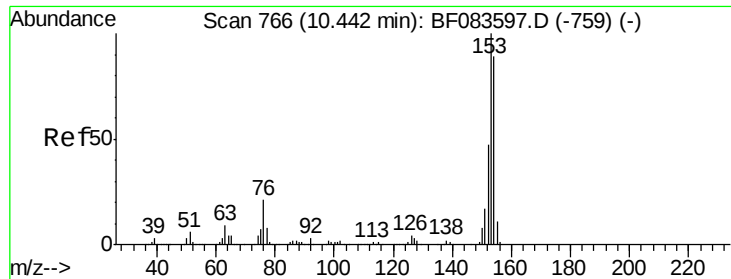


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 3.98 ng

RT: 10.35 min Scan# 758

Delta R.T. -0.09 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

Instrument :

BNA_F

ClientSampleId :

CWC-MISC-8-20151207MSD

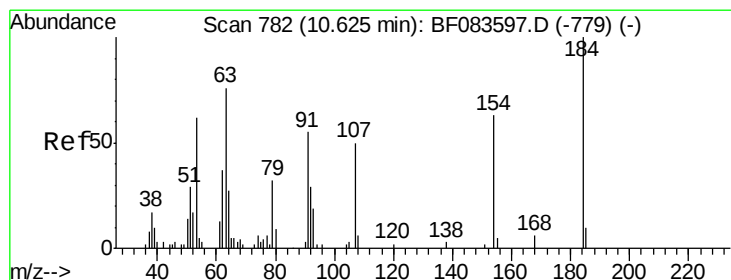
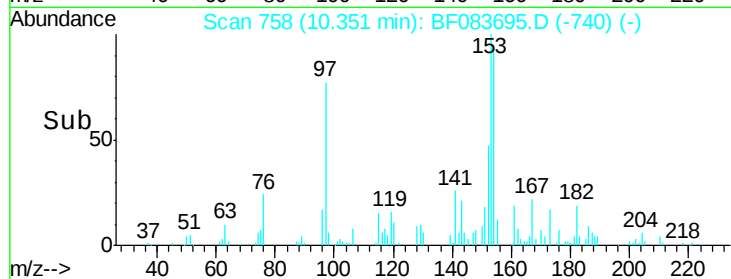
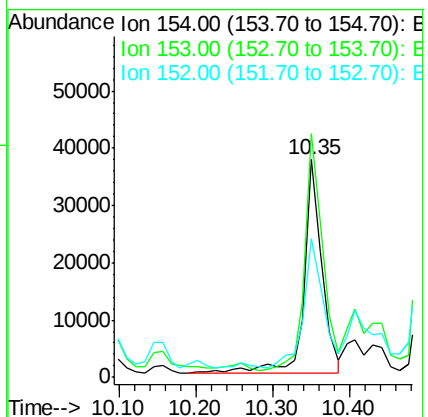
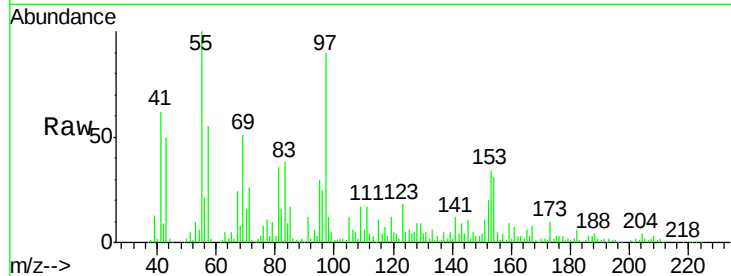
Tgt Ion:154 Resp: 58940

Ion Ratio Lower Upper

154 100

153 111.9 91.4 137.0

152 63.7 43.4 65.2



#53

2,4-Dinitrophenol

Concen: 5.70 ng

RT: 10.54 min Scan# 775

Delta R.T. -0.08 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

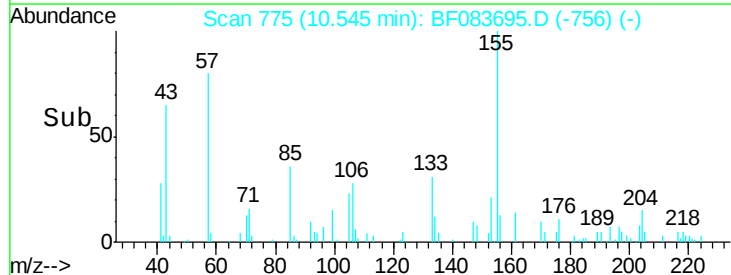
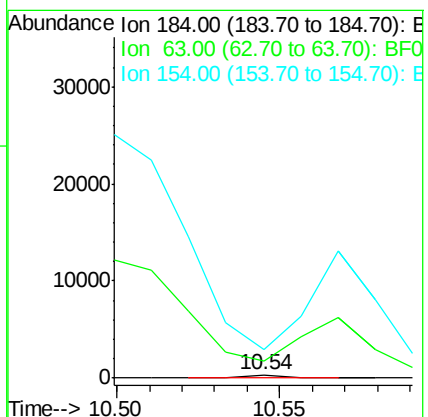
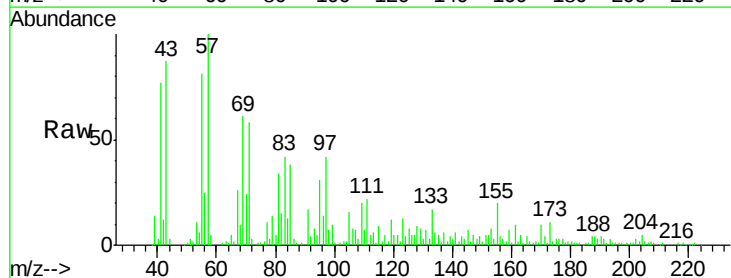
Tgt Ion:184 Resp: 209

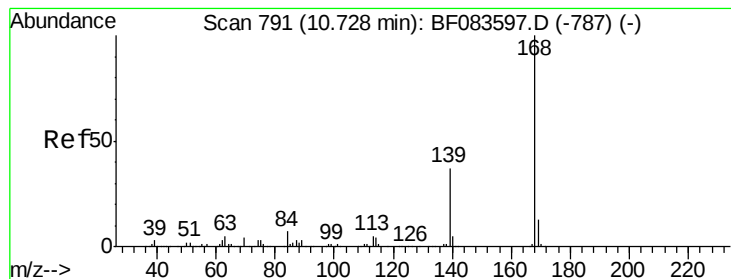
Ion Ratio Lower Upper

184 100

63 587.5 62.4 93.6#

154 970.5 46.6 69.8#





#54

Dibenzofuran

Concen: 2.69 ng

RT: 10.65 min Scan# 784

Delta R.T. -0.08 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

Instrument :

BNA_F

ClientSampleId :

CWC-MISC-8-20151207MSD

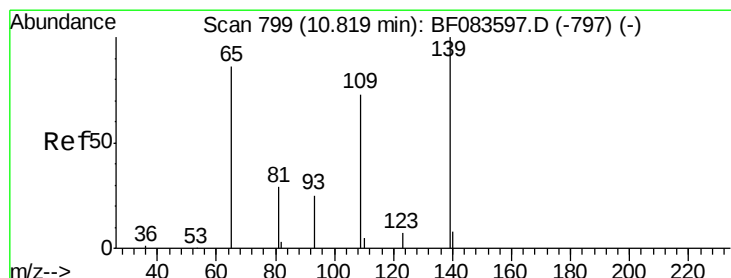
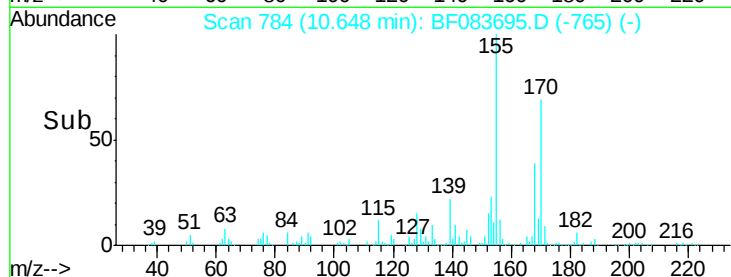
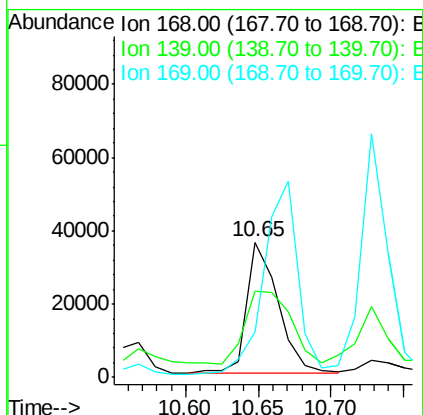
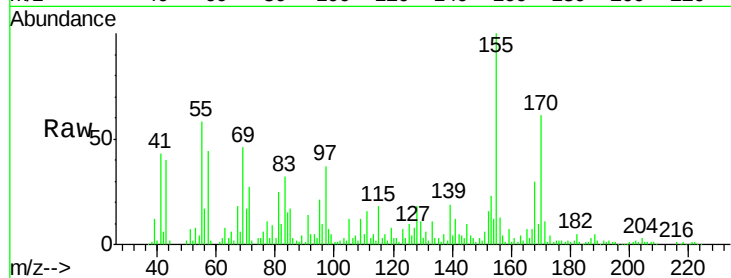
Tgt Ion:168 Resp: 55118

Ion Ratio Lower Upper

168 100

139 63.7 28.0 42.0#

169 33.5 10.8 16.2#



#55

4-Nitrophenol

Concen: 12.38 ng

RT: 10.73 min Scan# 791

Delta R.T. -0.09 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

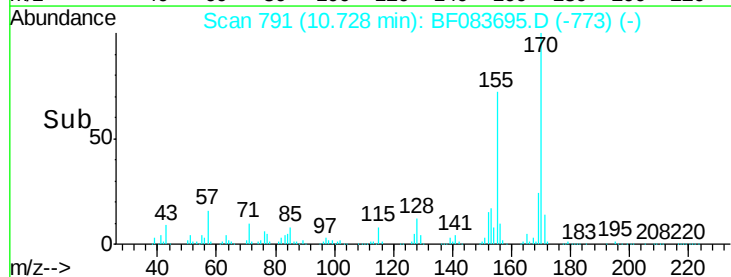
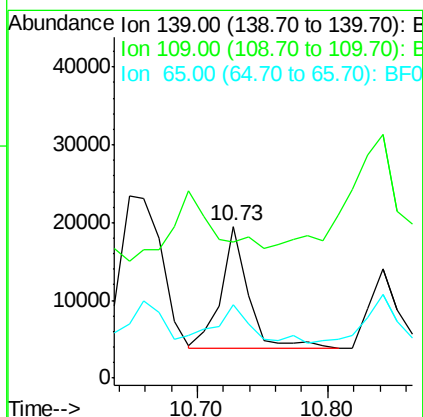
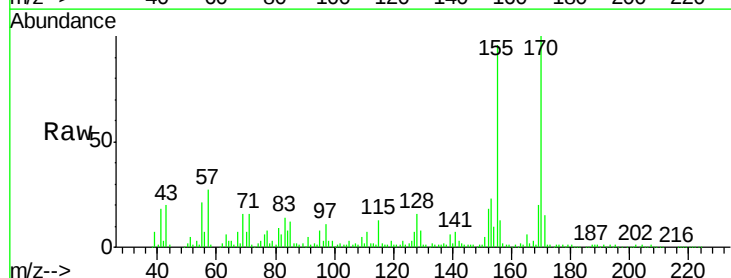
Tgt Ion:139 Resp: 22738

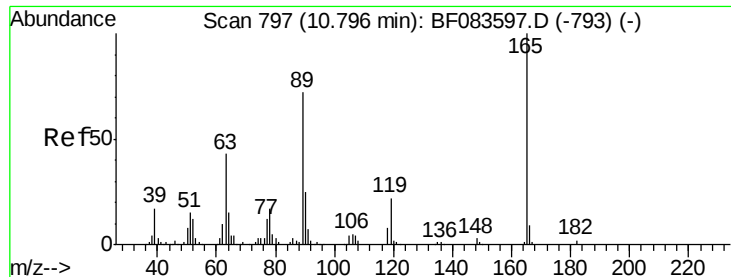
Ion Ratio Lower Upper

139 100

109 90.0 42.0 82.0#

65 48.2 89.2 129.2#

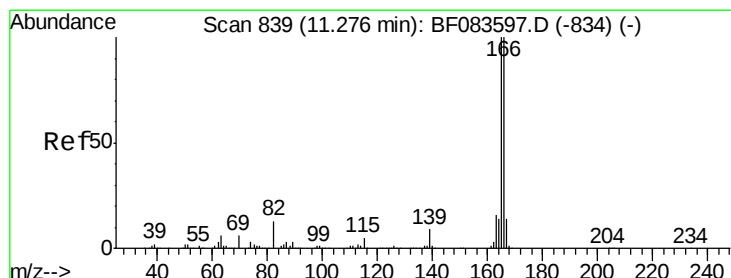
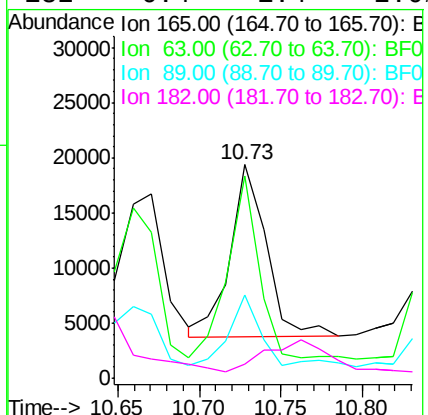
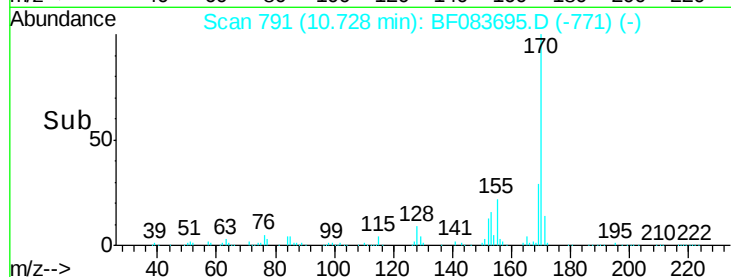
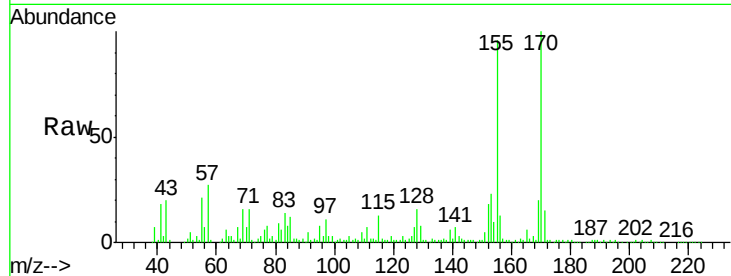




#56
2,4-Dinitrotoluene
Concen: 4.66 ng
RT: 10.73 min Scan# 791
Delta R.T. -0.07 min
Lab File: BF083695.D
Acq: 11 Dec 2015 1:03

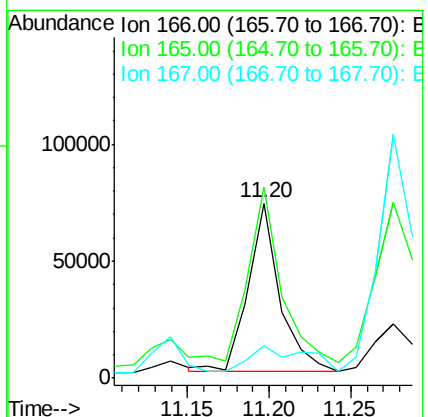
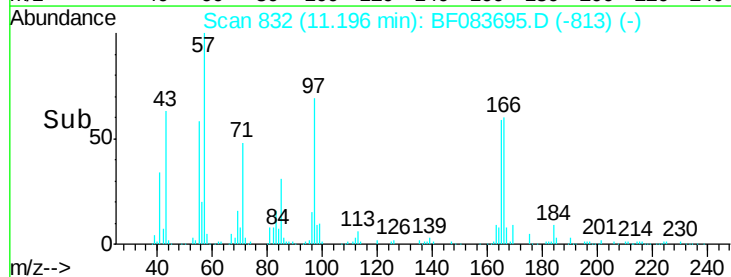
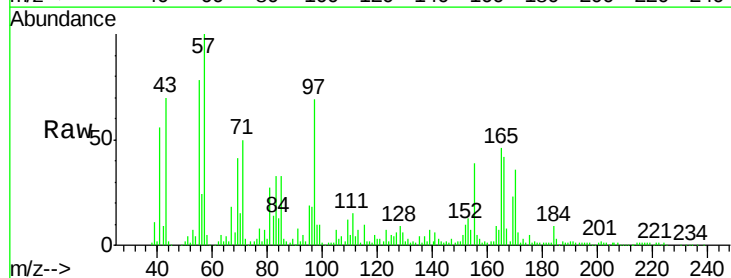
Instrument :
BNA_F
ClientSampleId :
CWC-MISC-8-20151207MSD

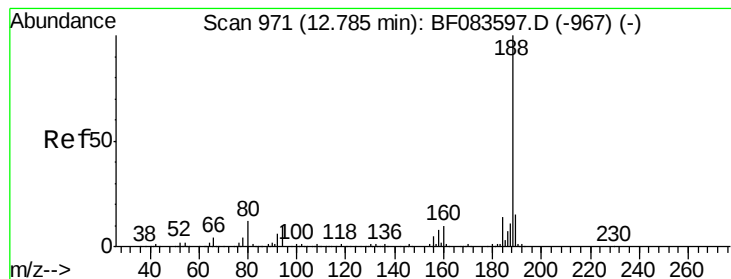
Tgt Ion	Ratio	Lower	Upper
165	100		
63	94.5	51.4	77.2#
89	38.8	72.6	108.8#
182	6.4	1.4	2.0#



#57
Fluorene
Concen: 5.37 ng
RT: 11.20 min Scan# 832
Delta R.T. -0.08 min
Lab File: BF083695.D
Acq: 11 Dec 2015 1:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	109.3	80.0	120.0
167	18.8	10.6	16.0#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.71 min Scan# 964

Delta R.T. -0.08 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

Instrument :

BNA_F

ClientSampleId :

CWC-MISC-8-20151207MSD

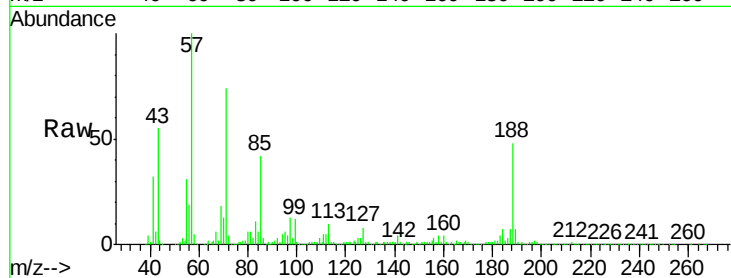
Tgt Ion:188 Resp: 376249

Ion Ratio Lower Upper

188 100

94 10.4 9.4 14.2

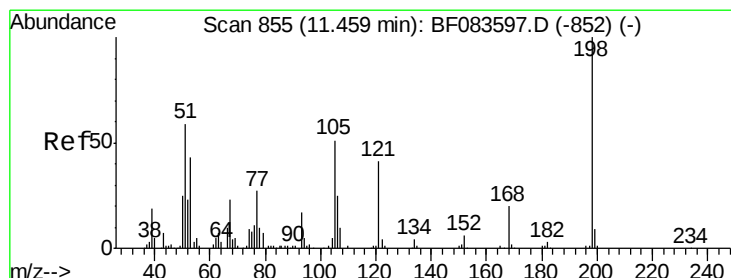
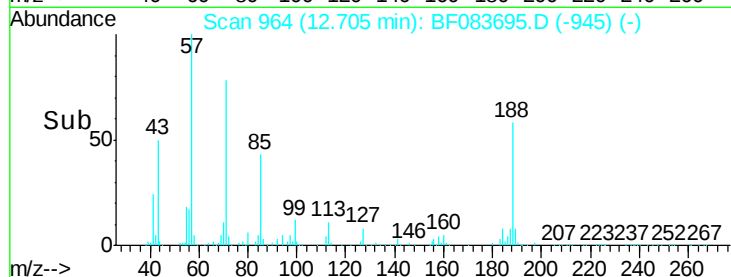
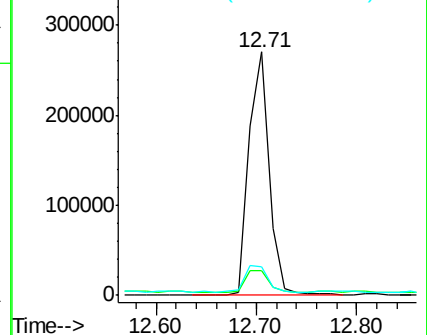
80 11.8 10.6 16.0



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



#64

4,6-Dinitro-2-methylphenol

Concen: 2.47 ng

RT: 11.39 min Scan# 849

Delta R.T. -0.07 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

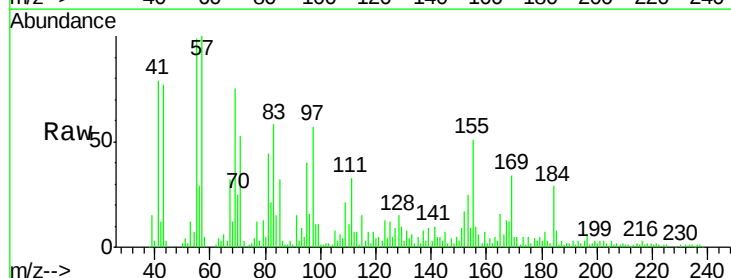
Tgt Ion:198 Resp: 1409

Ion Ratio Lower Upper

198 100

51 255.8 53.8 93.8#

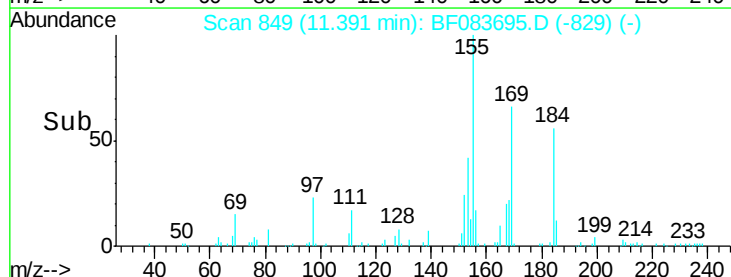
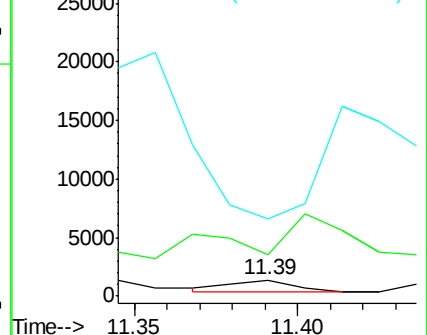
105 471.7 38.6 78.6#

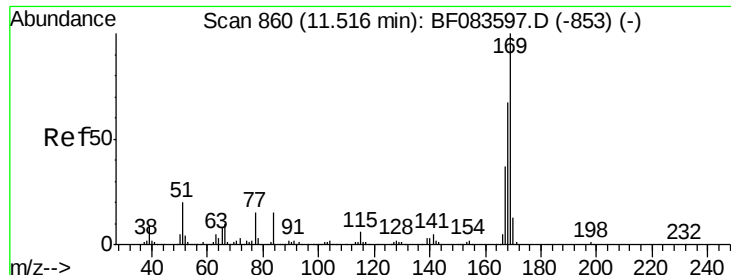


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

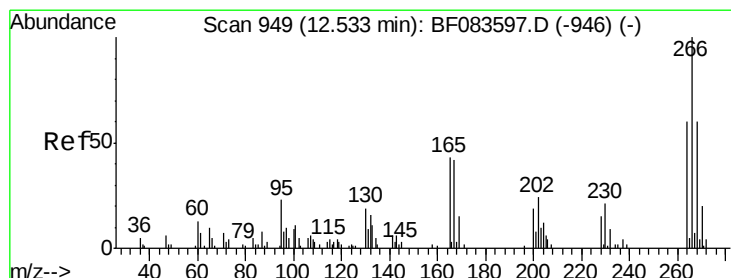
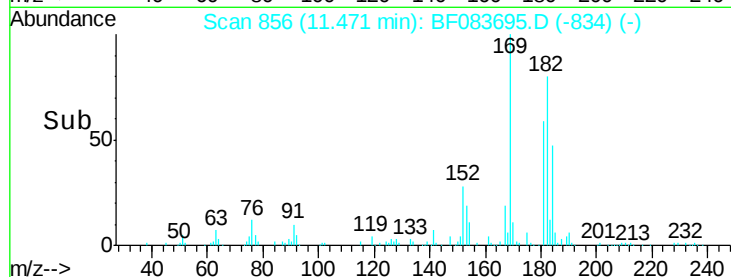
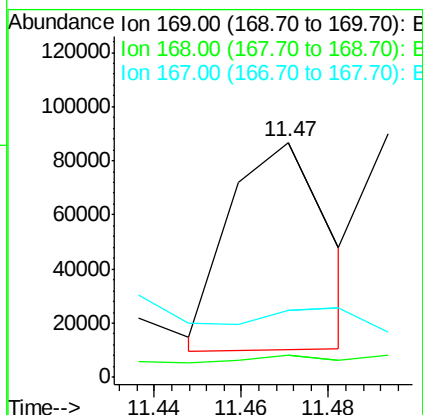
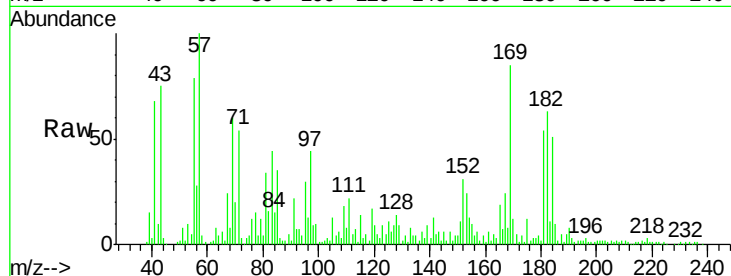




#65
n-Nitrosodiphenylamine
Concen: 9.69 ng
RT: 11.47 min Scan# 856
Delta R.T. -0.05 min
Lab File: BF083695.D
Acq: 11 Dec 2015 1:03

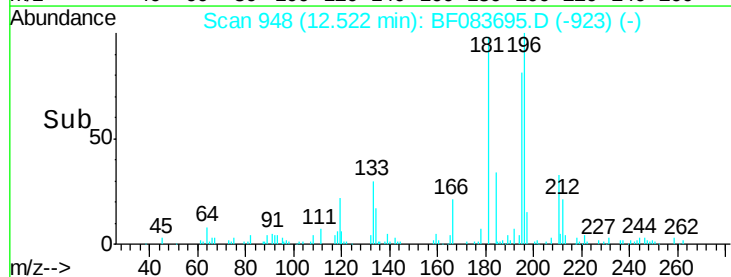
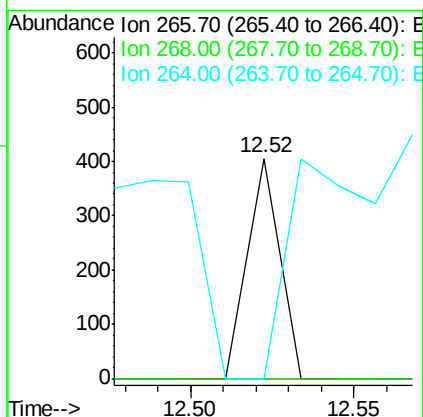
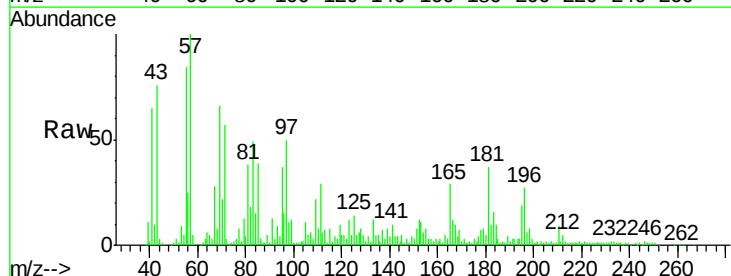
Instrument :
BNA_F
ClientSampleId :
CWC-MISC-8-20151207MSD

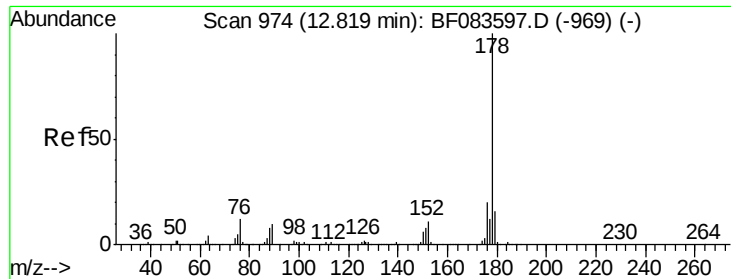
Tgt Ion:169 Resp: 120329
Ion Ratio Lower Upper
169 100
168 9.4 53.0 79.6#
167 28.6 29.3 43.9#



#69
Pentachlorophenol
Concen: 8.38 ng
RT: 12.52 min Scan# 948
Delta R.T. -0.01 min
Lab File: BF083695.D
Acq: 11 Dec 2015 1:03

Tgt Ion:266 Resp: 278
Ion Ratio Lower Upper
266 100
268 0.0 50.2 75.2#
264 0.0 51.4 77.2#

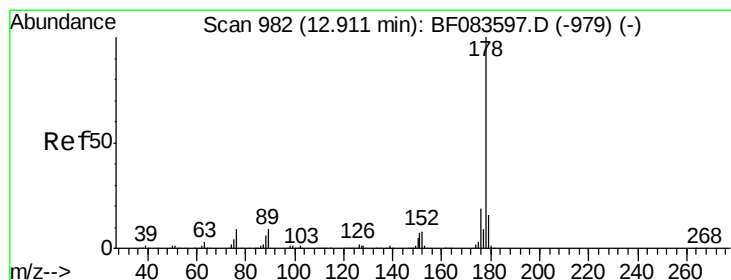
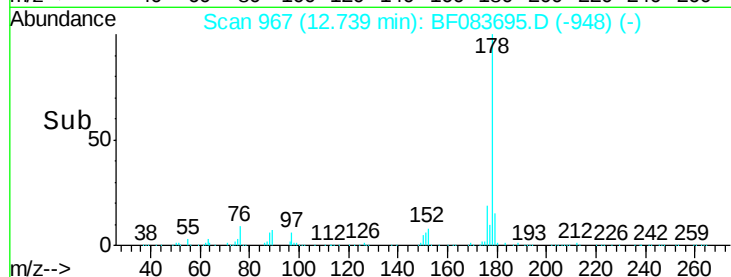
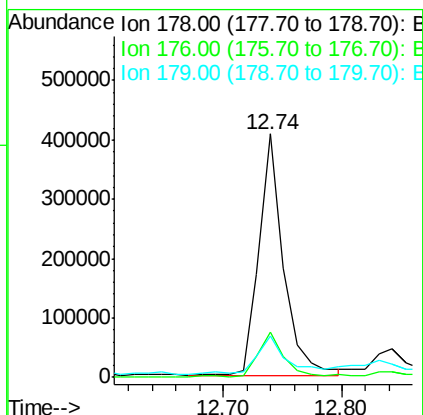
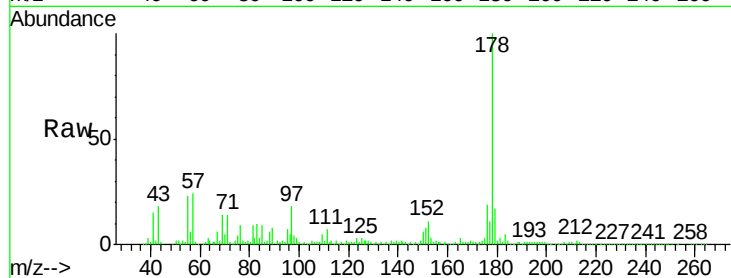




#70
Phenanthrene
Concen: 27.41 ng
RT: 12.74 min Scan# 967
Delta R.T. -0.08 min
Lab File: BF083695.D
Acq: 11 Dec 2015 1:03

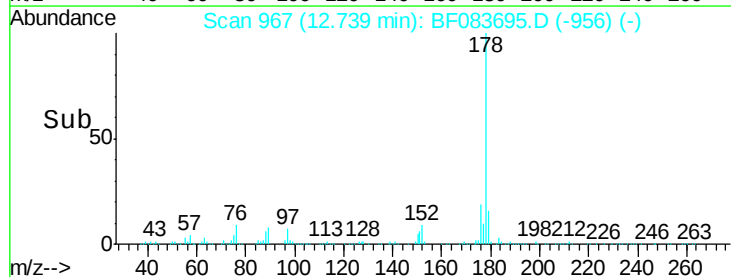
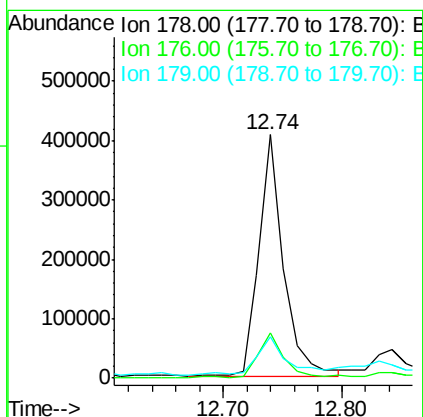
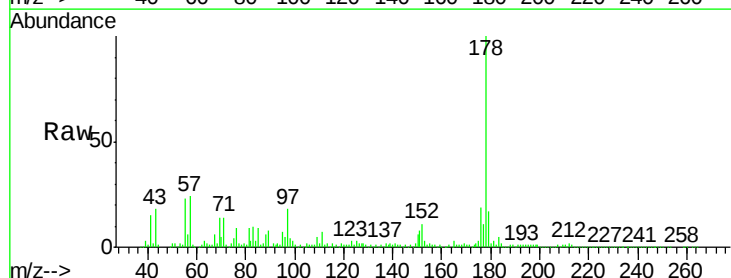
Instrument :
BNA_F
ClientSampleId :
CWC-MISC-8-20151207MSD

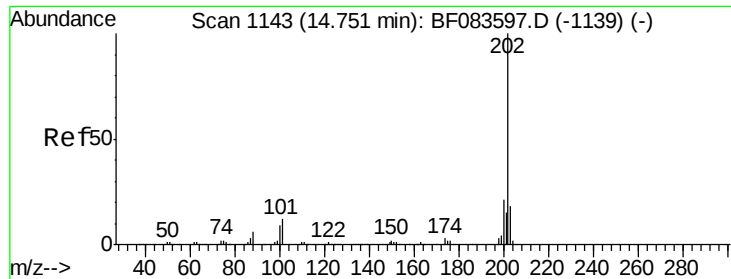
Tgt Ion:178 Resp: 592550
Ion Ratio Lower Upper
178 100
176 18.8 15.7 23.5
179 17.1 12.2 18.4



#71
Anthracene
Concen: 26.46 ng
RT: 12.74 min Scan# 967
Delta R.T. -0.17 min
Lab File: BF083695.D
Acq: 11 Dec 2015 1:03

Tgt Ion:178 Resp: 592550
Ion Ratio Lower Upper
178 100
176 18.8 15.2 22.8
179 17.1 12.6 18.8





#74

Fluoranthene

Concen: 12.78 ng

RT: 14.67 min Scan# 1136

Delta R.T. -0.08 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

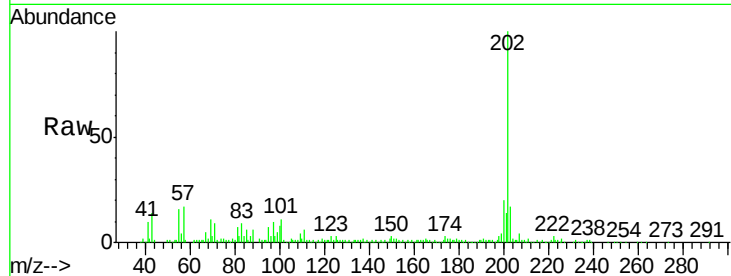
Instrument :

BNA_F

ClientSampleId :

CWC-MISC-8-20151207MSD

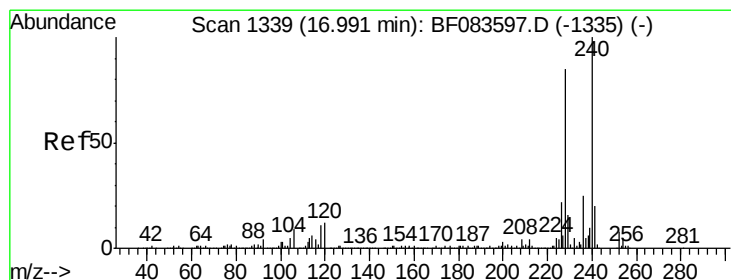
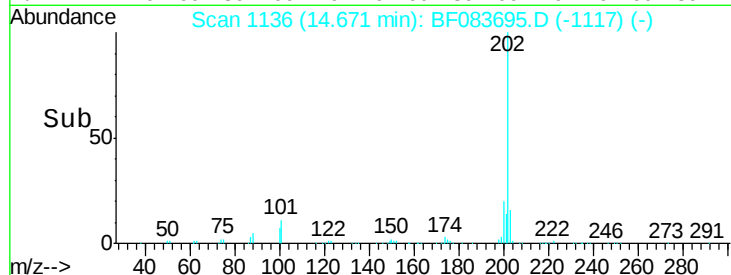
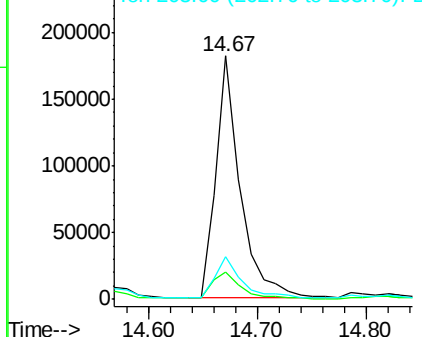
Tgt Ion:	202	Resp:	282669
Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	31.5
203	17.5	0.0	37.6



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

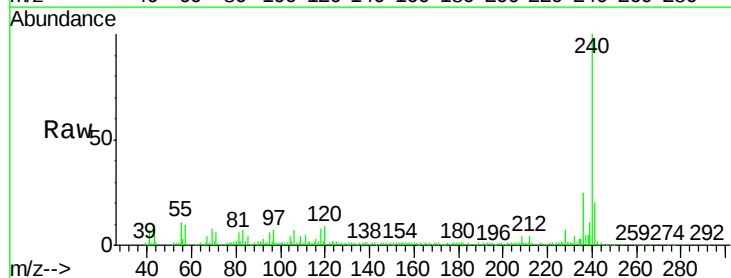
RT: 16.92 min Scan# 1333

Delta R.T. -0.07 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

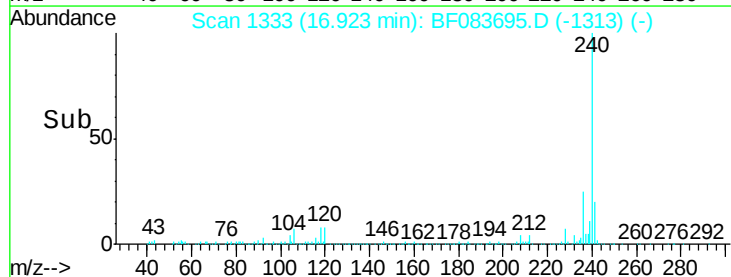
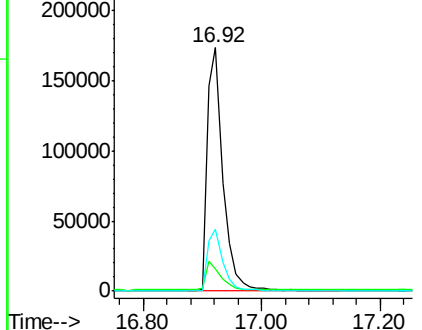
Tgt Ion:	240	Resp:	319086
Ion	Ratio	Lower	Upper
240	100		
120	9.1	8.1	12.1
236	25.3	20.8	31.2

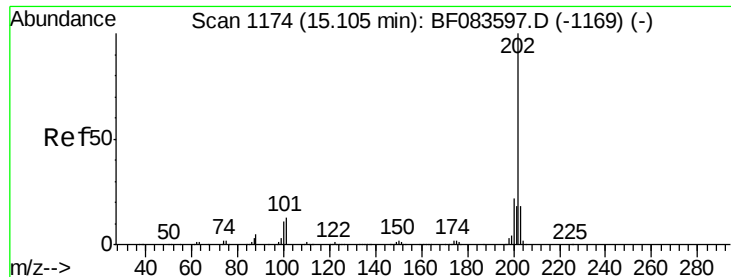


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

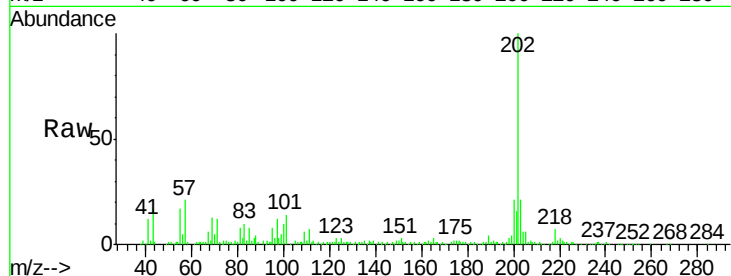




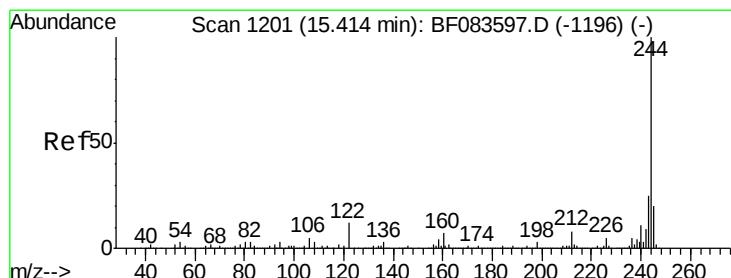
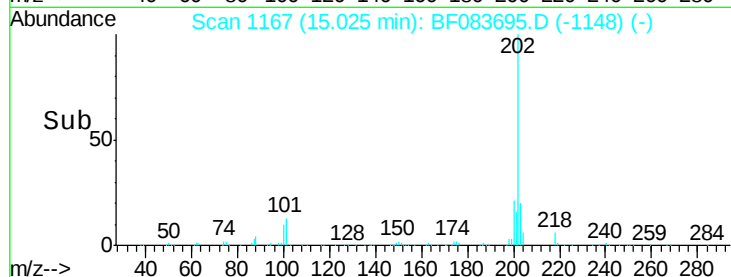
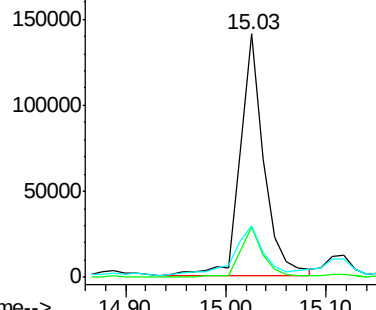
#77
 Pyrene
 Concen: 10.12 ng
 RT: 15.03 min Scan# 1167
 Delta R.T. -0.08 min
 Lab File: BF083695.D
 Acq: 11 Dec 2015 1:03

Instrument :
 BNA_F
 ClientSampleId :
 CWC-MISC-8-20151207MSD

Tgt Ion: 202 Resp: 232374
 Ion Ratio Lower Upper
 202 100
 200 20.6 16.7 25.1
 203 21.1 14.3 21.5

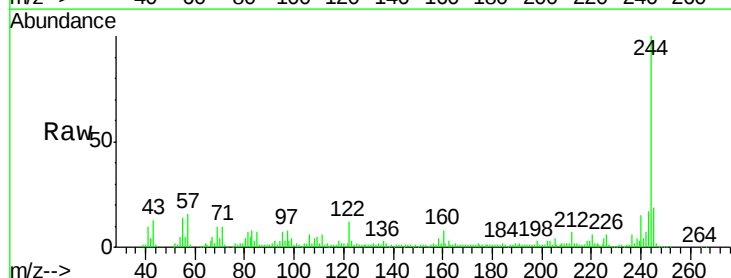


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

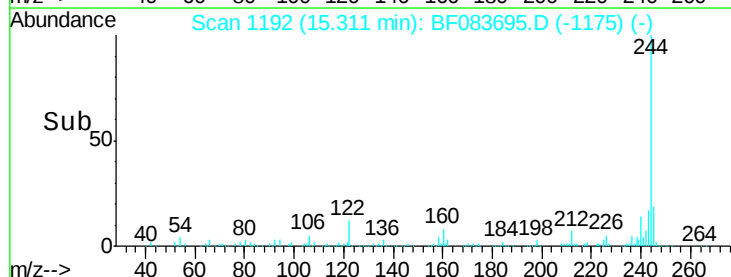
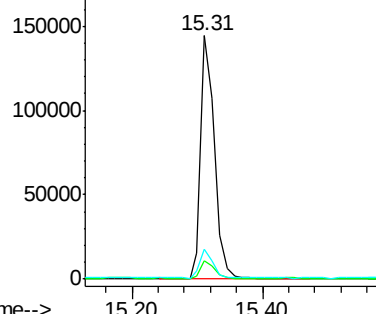


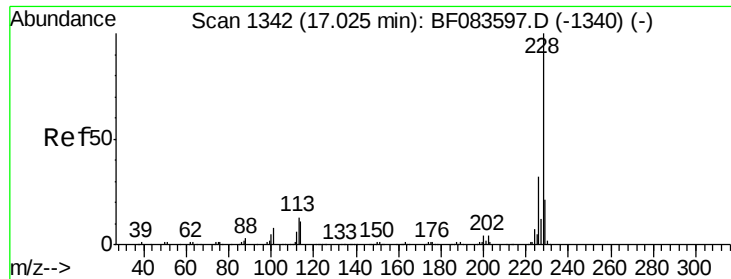
#78
 Terphenyl-d14
 Concen: 15.57 ng
 RT: 15.31 min Scan# 1192
 Delta R.T. -0.10 min
 Lab File: BF083695.D
 Acq: 11 Dec 2015 1:03

Tgt Ion: 244 Resp: 211138
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.1 9.1
 122 12.5 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





#82

Chrysene

Concen: 2.44 ng

RT: 16.97 min Scan# 1337

Delta R.T. -0.06 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

Instrument :

BNA_F

ClientSampleId :

CWC-MISC-8-20151207MSD

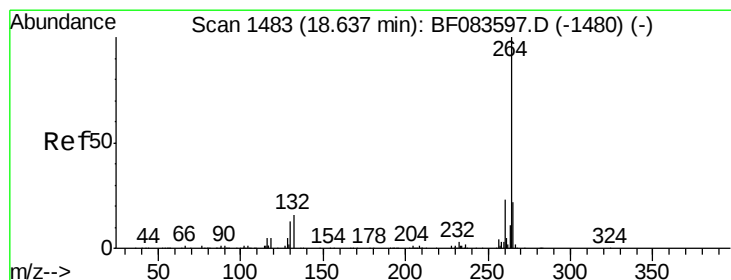
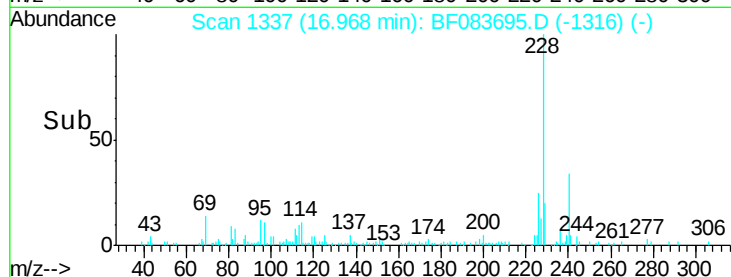
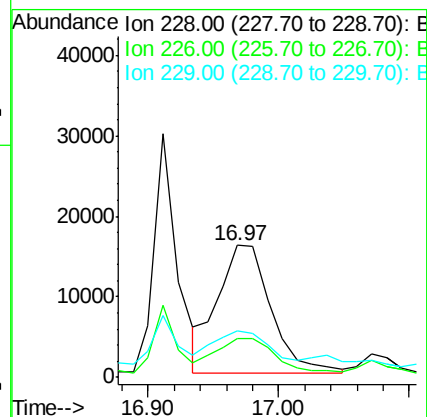
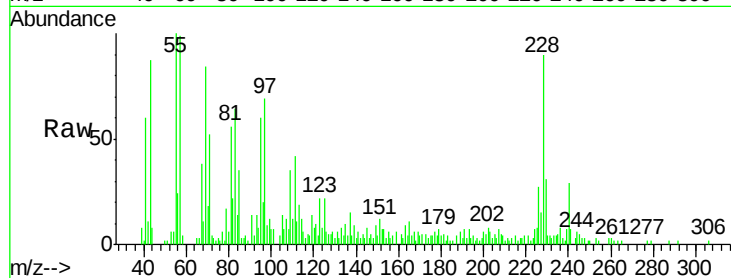
Tgt Ion:228 Resp: 45683

Ion Ratio Lower Upper

228 100

226 29.4 24.7 37.1

229 34.8 16.3 24.5#



#86

Perylene-d12

Concen: 20.00 ng

RT: 18.57 min Scan# 1477

Delta R.T. -0.07 min

Lab File: BF083695.D

Acq: 11 Dec 2015 1:03

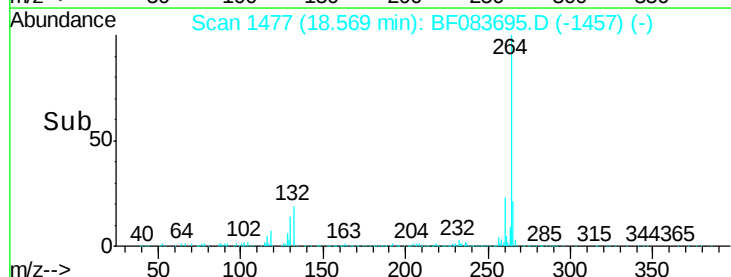
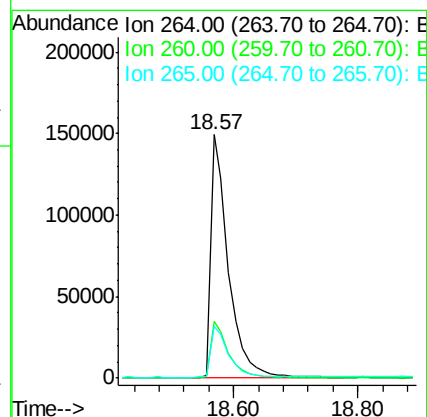
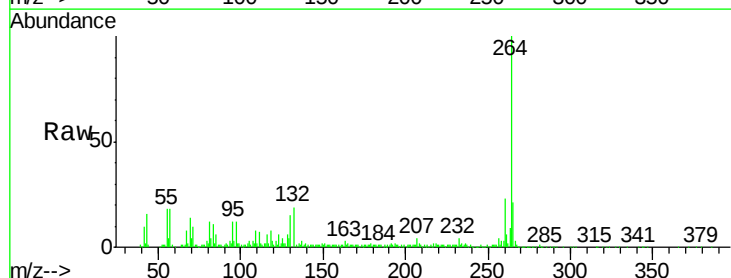
Tgt Ion:264 Resp: 286752

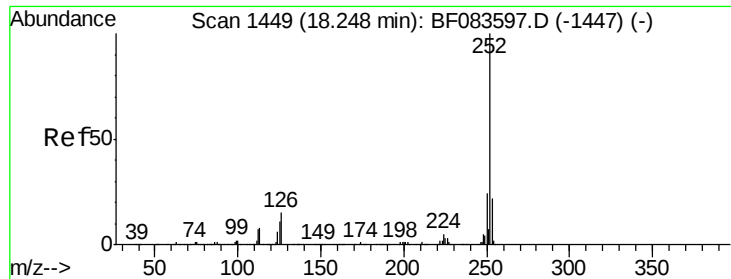
Ion Ratio Lower Upper

264 100

260 23.5 19.4 29.0

265 21.4 17.8 26.6





#87

Benzo(b)fluoranthene

Concen: 2.07 ng

RT: 18.23 min Scan# 1447

Delta R.T. -0.02 min

Lab File: BF083695.D

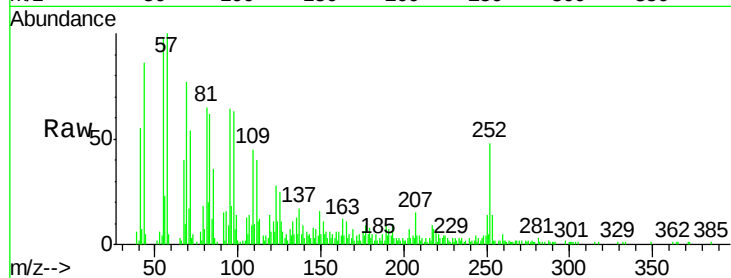
Acq: 11 Dec 2015 1:03

Instrument :

BNA_F

ClientSampleId :

CWC-MISC-8-20151207MSD



Tgt Ion:	252	Resp:	33767
Ion Ratio	Lower	Upper	
252	100		
253	29.9	18.2	27.4#
125	51.4	8.2	12.4#

