

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102715\
 Data File : BF082564.D
 Acq On : 27 Oct 2015 23:38
 Operator : UM/IZ
 Sample : G4168-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CWC-2-20151026

Quant Time: Oct 28 01:13:11 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 27 02:43:58 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	85169m	20.00	ng	-0.02
21) Naphthalene-d8	8.00	136	321380	20.00	ng	-0.02
38) Acenaphthene-d10	9.75	164	151469	20.00	ng	-0.02
63) Phenanthrene-d10	11.23	188	266148	20.00	ng	-0.02
75) Chrysene-d12	13.88	240	165608	20.00	ng	-0.03
86) Perylene-d12	15.29	264	168049	20.00	ng	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	685300	158.84	ng	0.01
7) Phenol-d6	6.38	99	815141	144.97	ng	0.00
23) Nitrobenzene-d5	7.29	82	573882	115.20	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	176074	155.23	ng	-0.02
44) 2-Fluorobiphenyl	9.07	172	966334	101.45	ng	-0.02
78) Terphenyl-d14	12.82	244	683599	118.92	ng	-0.02

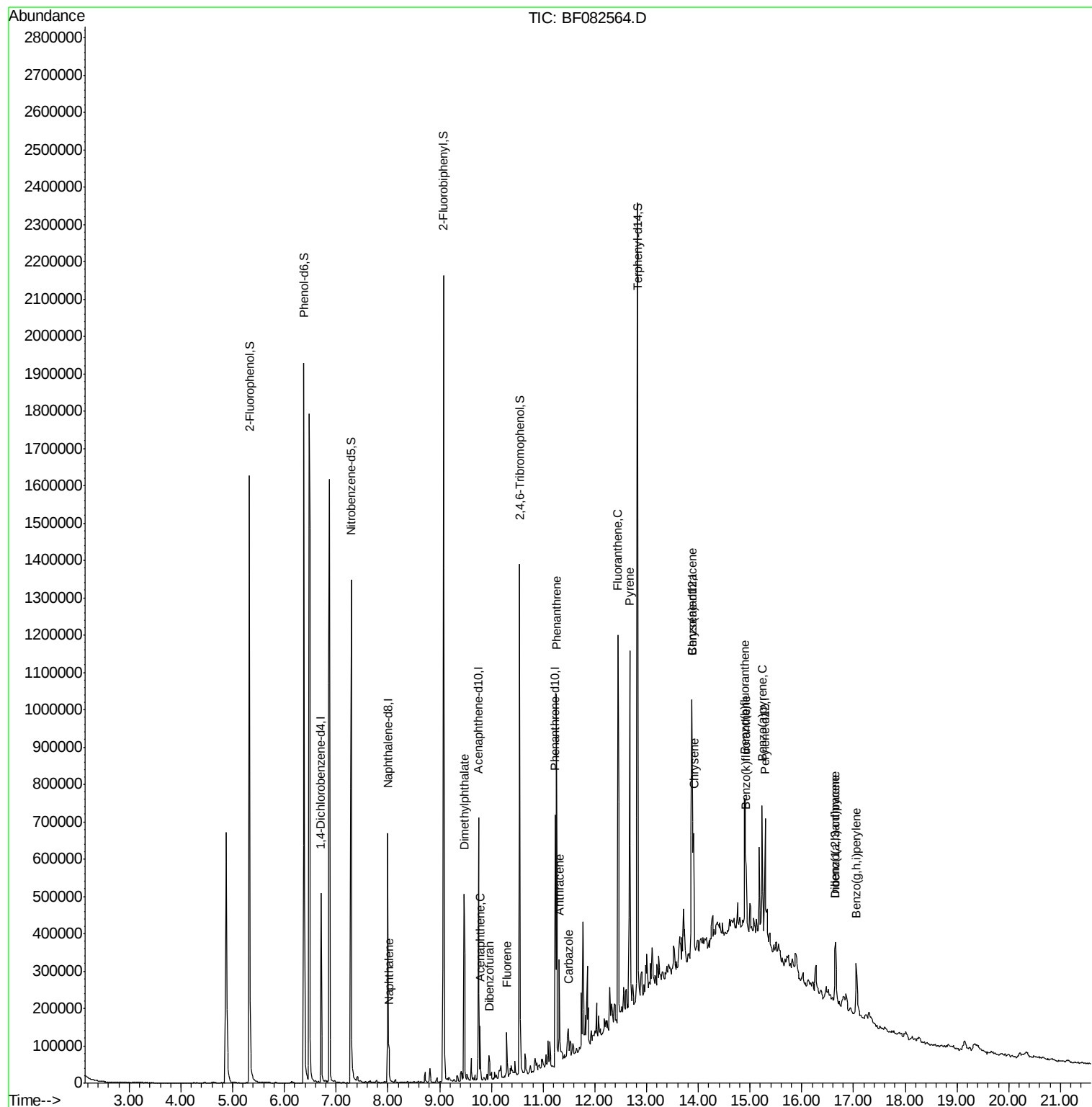
Target Compounds				Qvalue		
31) Naphthalene	8.02	128	44586	3.04	ng	98
49) Dimethylphthalate	9.47	163	291090	27.62	ng	99
51) Acenaphthene	9.78	154	31649	3.88	ng	97
54) Dibenzofuran	9.95	168	32183	2.70	ng	# 96
57) Fluorene	10.30	166	38881	3.98	ng	99
70) Phenanthrene	11.26	178	442349	32.30	ng	100
71) Anthracene	11.31	178	131208	9.51	ng	99
72) Carbazole	11.49	167	42086	3.46	ng	98
74) Fluoranthene	12.45	202	525572	37.38	ng	99
77) Pyrene	12.67	202	473299	46.46	ng	99
80) Benzo(a)anthracene	13.88	228	215654	24.29	ng	94
82) Chrysene	13.91	228	174016m	20.75	ng	
85) Indeno(1,2,3-cd)pyrene	16.65	276	118145	15.33	ng	93
87) Benzo(b)fluoranthene	14.89	252	253590m	25.41	ng	
88) Benzo(k)fluoranthene	14.92	252	66160m	8.13	ng	
89) Benzo(a)pyrene	15.24	252	176001	20.36	ng	# 95
90) Dibenzo(a,h)anthracene	16.65	278	29282m	4.05	ng	
91) Benzo(g,h,i)perylene	17.05	276	115373	16.12	ng	# 93

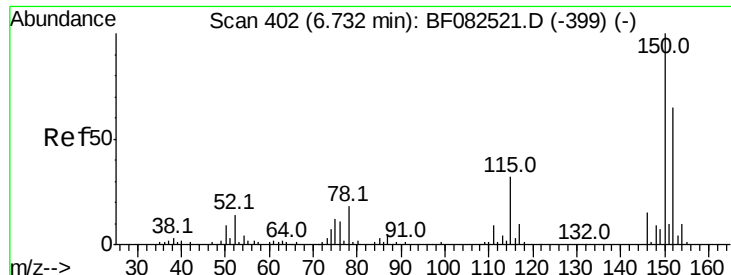
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng/mL

RT: 6.71 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Instrument :

BNA_F

ClientSampleId :

CWC-2-20151026

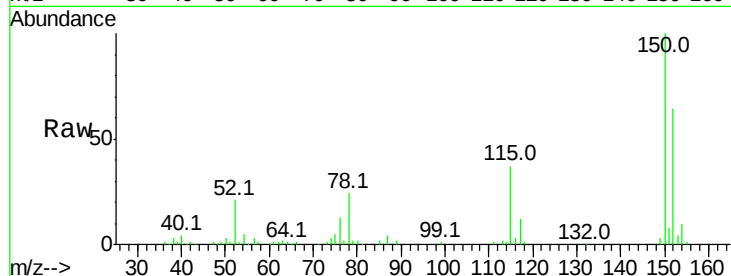
Tot Ion:152 Resp: 85169

Ion Ratio Lower Upper

152 100

150 156.5 123.4 185.0

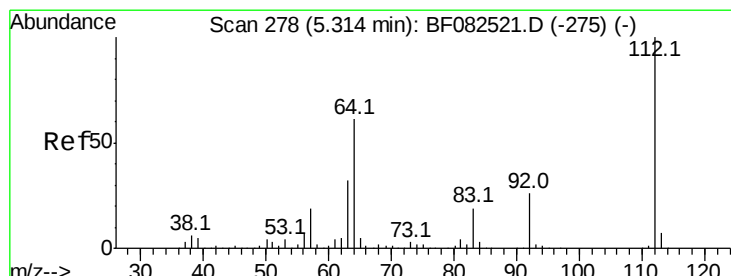
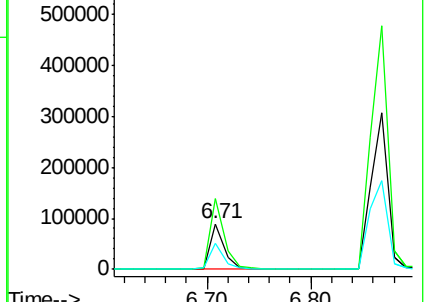
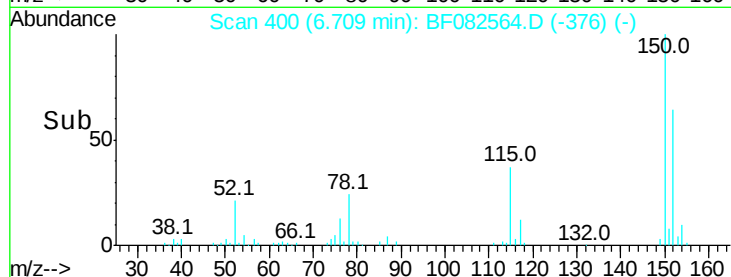
115 58.5 39.0 58.4#



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: 158.84 ng

RT: 5.33 min Scan# 279

Delta R.T. 0.01 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

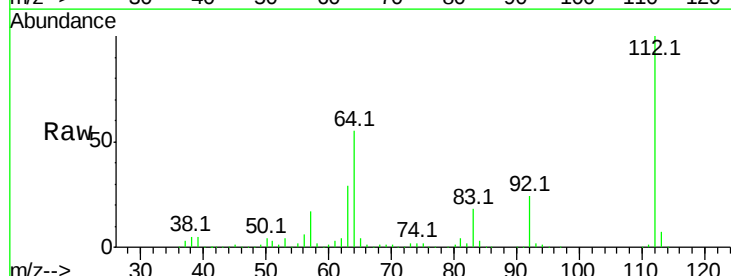
Tgt Ion:112 Resp: 685300

Ion Ratio Lower Upper

112 100

64 54.5 49.0 73.4

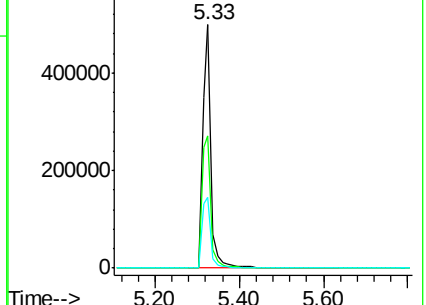
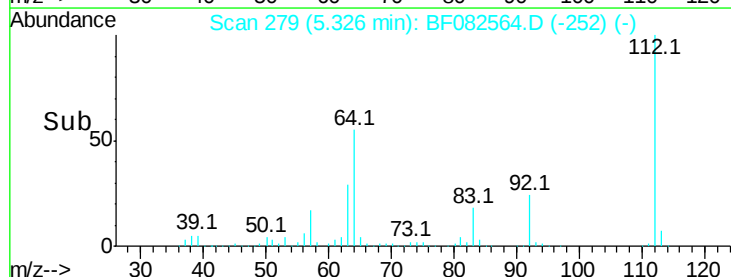
63 28.9 25.8 38.6

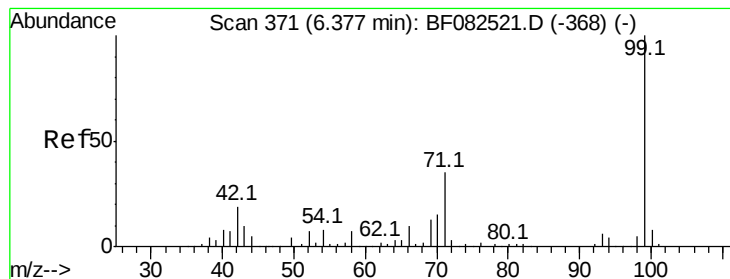


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 144.97 ng

RT: 6.38 min Scan# 371

Delta R.T. -0.00 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Instrument :

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ClientSampleId :

CWC-2-20151026

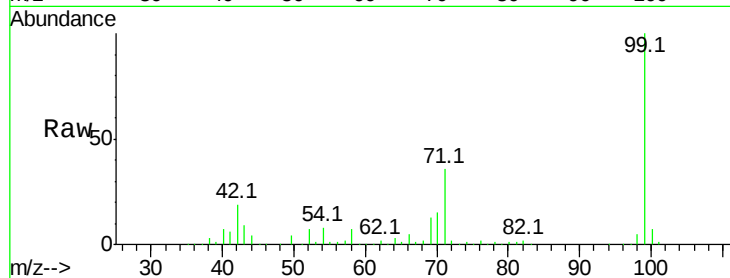
Tot Ion: 99 Resp: 815141

Ion Ratio Lower Upper

99 100

42 18.9 15.1 22.7

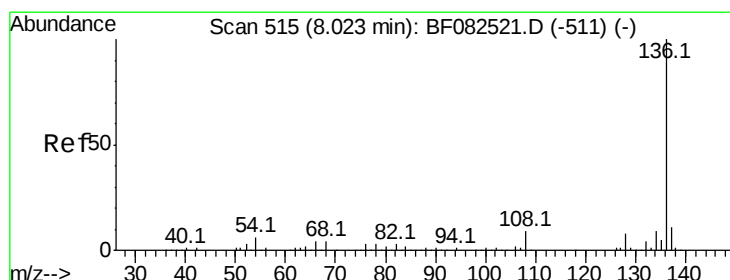
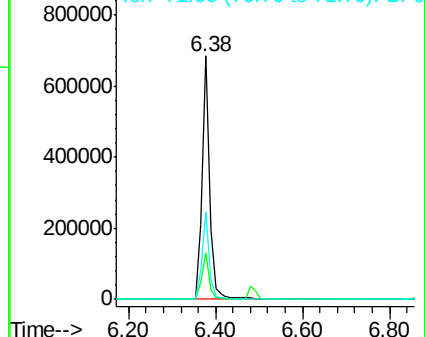
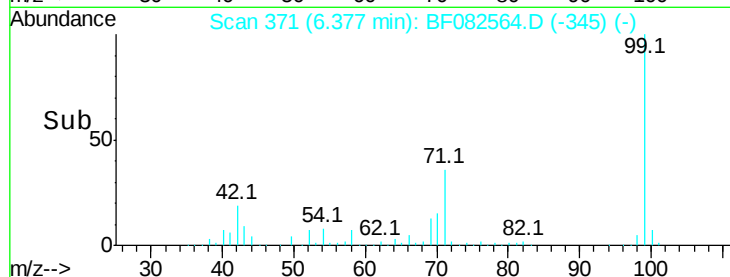
71 35.9 28.2 42.2



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: 8.00 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Tgt Ion: 136 Resp: 321380

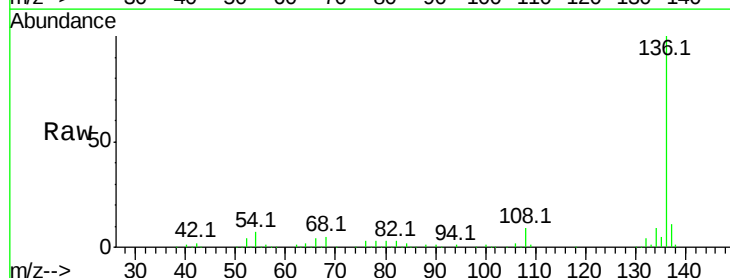
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 7.3 4.6 7.0#

68 4.6 3.2 4.8

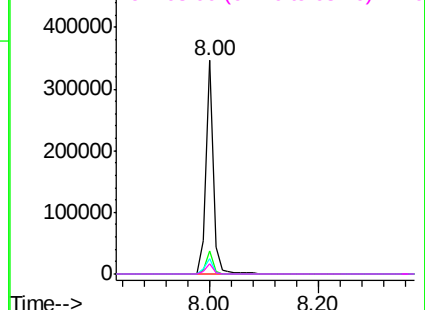
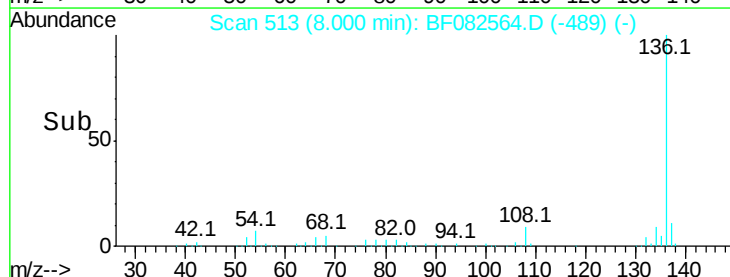


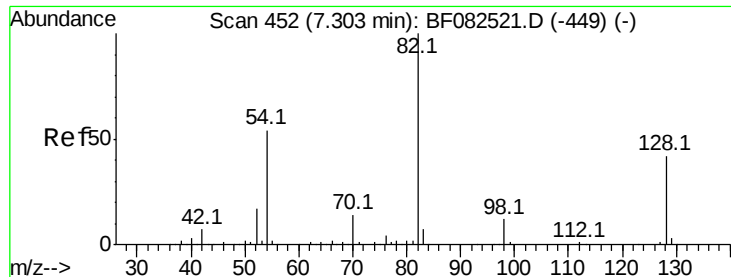
Abundance Ion 136.00 (135.70 to 136.70): E

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

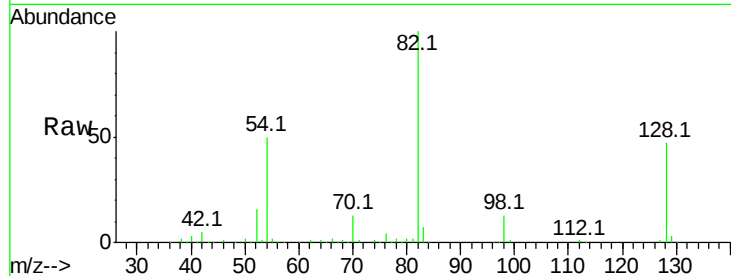




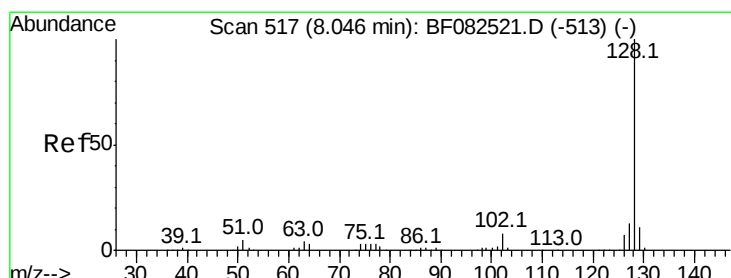
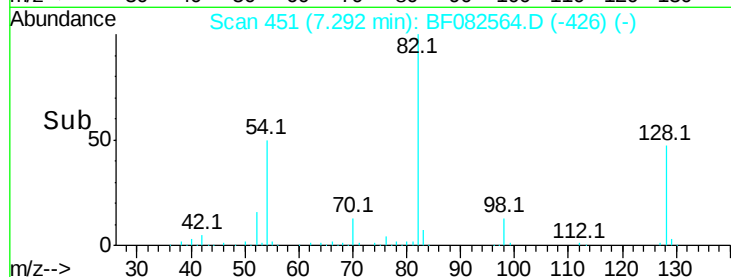
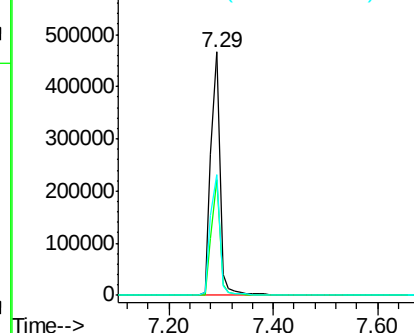
#23
 Nitrobenzene-d5
 Concen: 115.20 ng
 RT: 7.29 min Scan# 451
 Delta R.T. -0.01 min
 Lab File: BF082564.D
 Acq: 27 Oct 2015 23:38

Instrument :
 BNA_F
 ClientSampleId :
 CWC-2-20151026

Tot Ion: 82 Resp: 573882
 Ion Ratio Lower Upper
 82 100
 128 47.4 33.4 50.0
 54 49.6 43.5 65.3

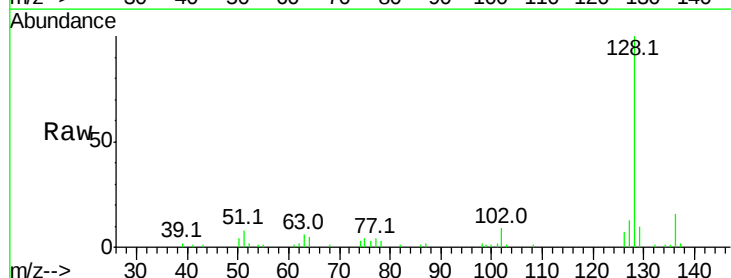


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

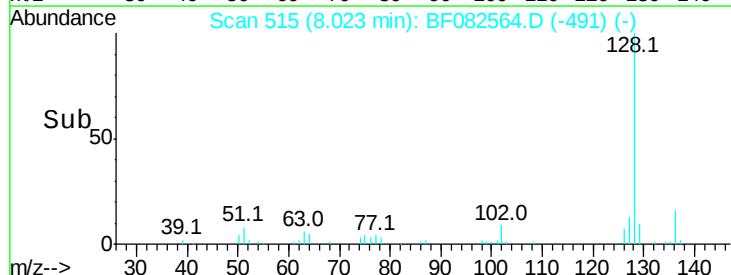
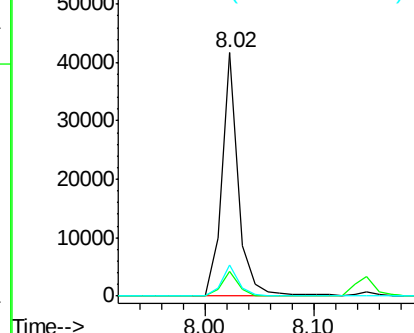


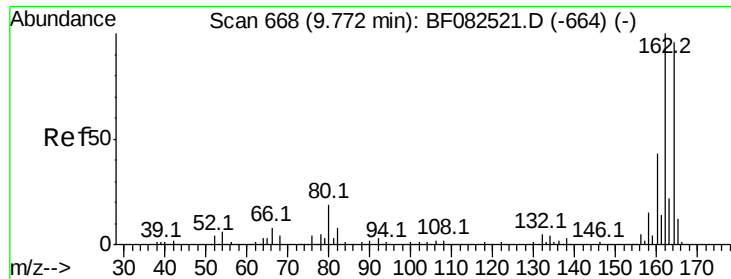
#31
 Naphthalene
 Concen: 3.04 ng
 RT: 8.02 min Scan# 515
 Delta R.T. -0.02 min
 Lab File: BF082564.D
 Acq: 27 Oct 2015 23:38

Tgt Ion:128 Resp: 44586
 Ion Ratio Lower Upper
 128 100
 129 10.3 8.6 12.8
 127 12.6 10.7 16.1



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

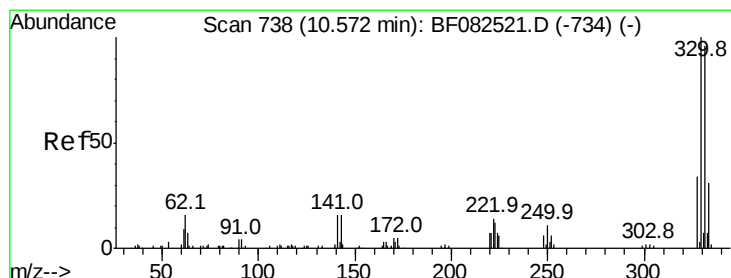
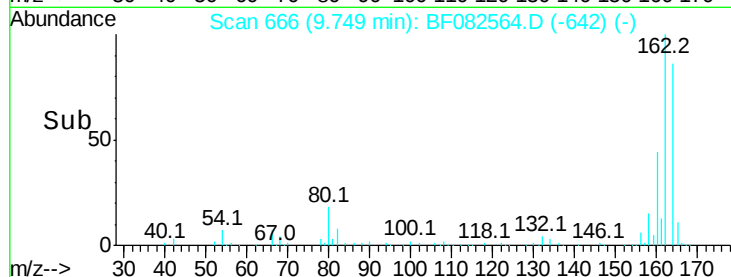
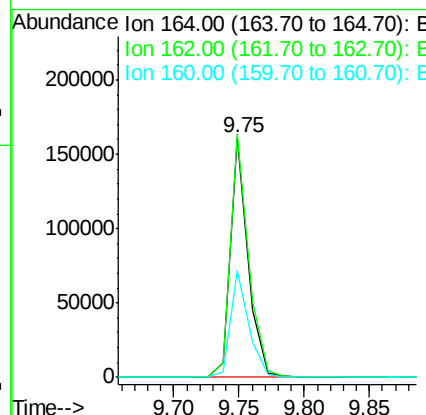
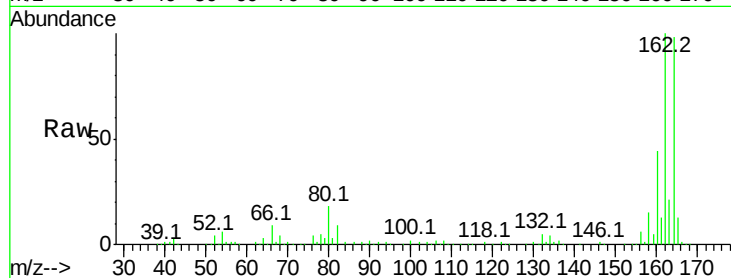




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.75 min Scan# 666
 Delta R.T. -0.02 min
 Lab File: BF082564.D
 Acq: 27 Oct 2015 23:38

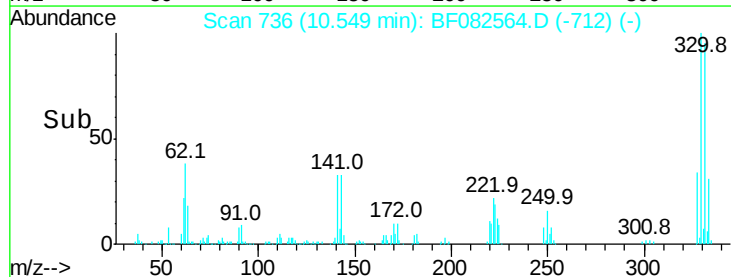
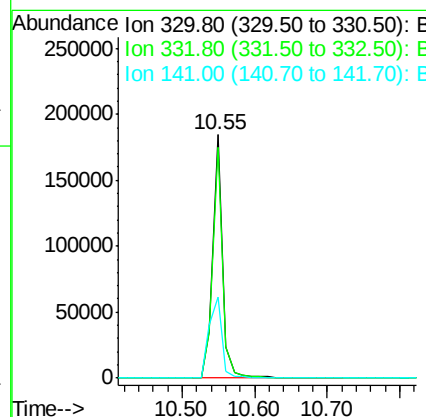
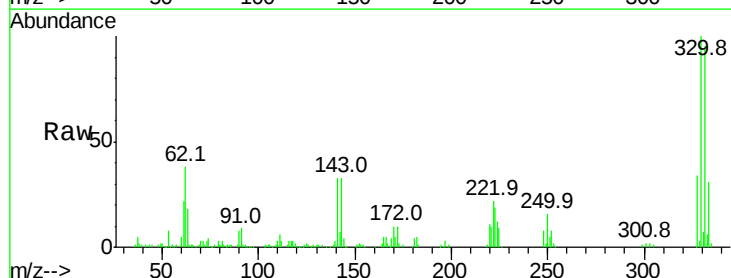
Instrument :
 BNA_F
 ClientSampleId :
 CWC-2-20151026

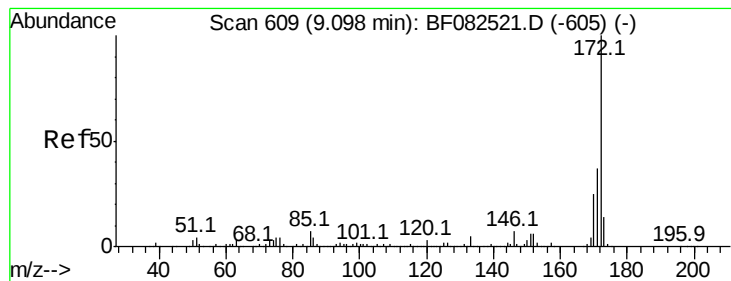
Tot Ion:164 Resp: 151469
 Ion Ratio Lower Upper
 164 100
 162 101.7 83.6 125.4
 160 44.3 36.0 54.0



#41
 2,4,6-Tribromophenol
 Concen: 155.23 ng
 RT: 10.55 min Scan# 736
 Delta R.T. -0.02 min
 Lab File: BF082564.D
 Acq: 27 Oct 2015 23:38

Tgt Ion:330 Resp: 176074
 Ion Ratio Lower Upper
 330 100
 332 95.4 77.4 116.0
 141 43.8 32.5 48.7

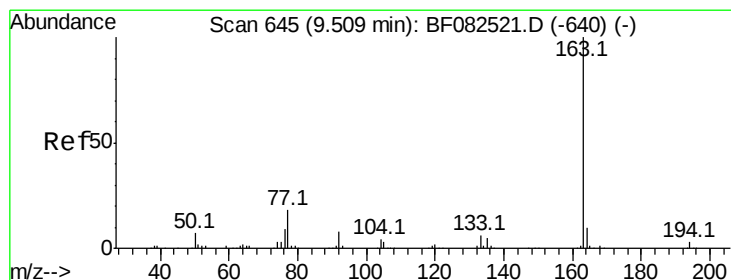
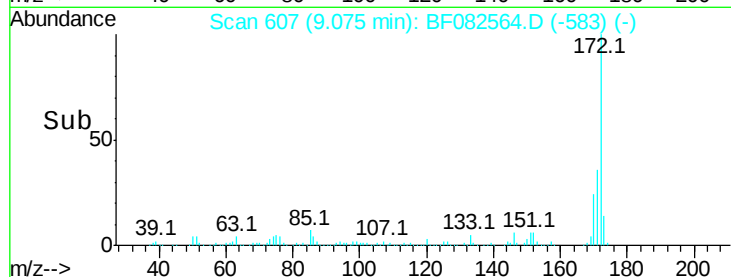
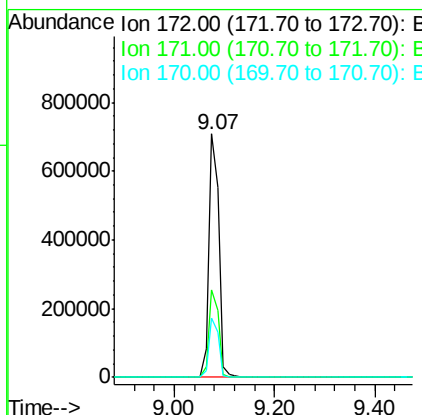
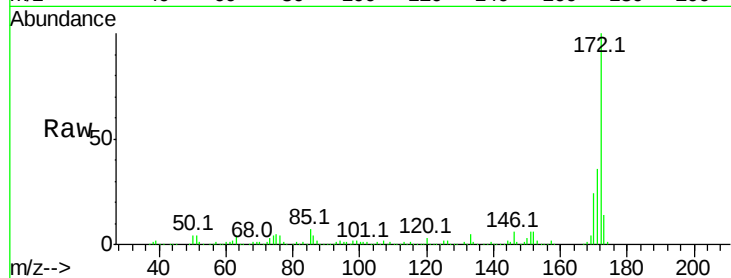




#44
2-Fluorobiphenyl
Concen: 101.45 ng
RT: 9.07 min Scan# 607
Delta R.T. -0.02 min
Lab File: BF082564.D
Acq: 27 Oct 2015 23:38

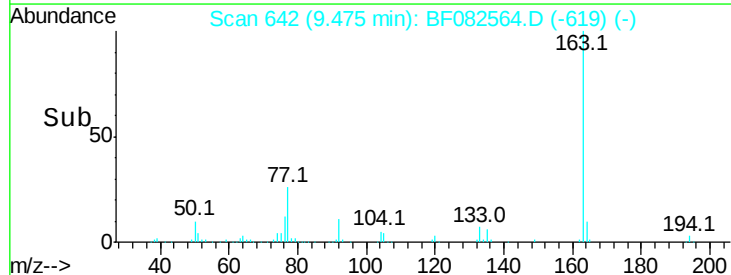
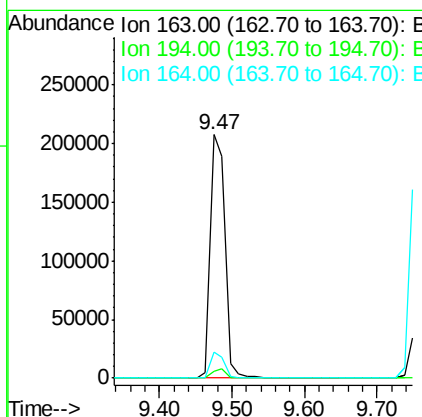
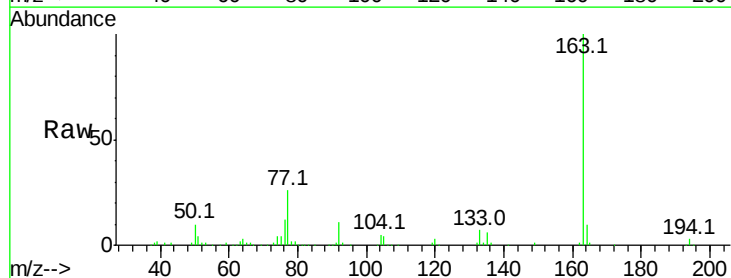
Instrument :
BNA_F
ClientSampleId :
CWC-2-20151026

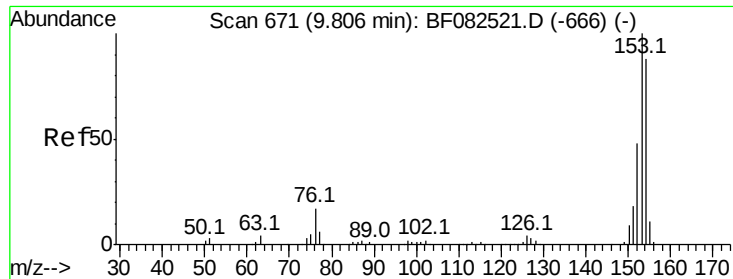
Tot Ion:172 Resp: 966334
Ion Ratio Lower Upper
172 100
171 35.7 29.3 43.9
170 24.2 19.8 29.6



#49
Dimethylphthalate
Concen: 27.62 ng
RT: 9.47 min Scan# 642
Delta R.T. -0.03 min
Lab File: BF082564.D
Acq: 27 Oct 2015 23:38

Tgt Ion:163 Resp: 291090
Ion Ratio Lower Upper
163 100
194 2.9 2.8 4.2
164 10.5 8.2 12.4





#51

Acenaphthene

Concen: 3.88 ng

RT: 9.78 min Scan# 669

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Instrument :

BNA_F

ClientSampleId :

CWC-2-20151026

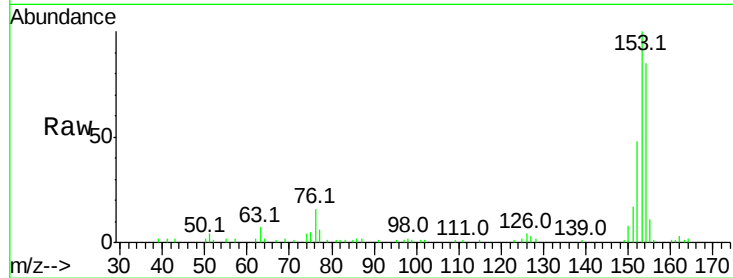
Tot Ion:154 Resp: 31649

Ion Ratio Lower Upper

154 100

153 117.6 90.7 136.1

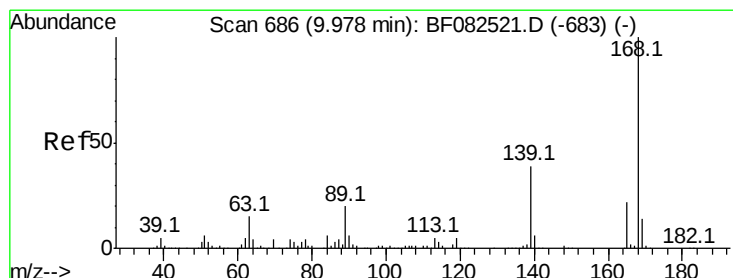
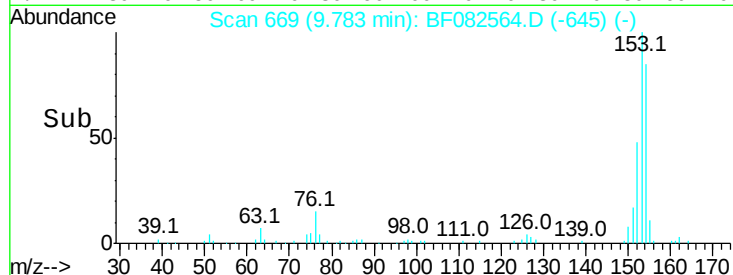
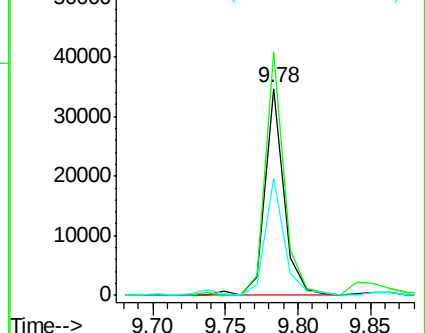
152 56.3 44.0 66.0



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: 2.70 ng

RT: 9.95 min Scan# 684

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

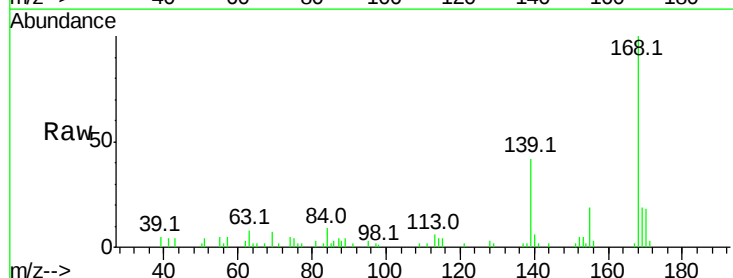
Tgt Ion:168 Resp: 32183

Ion Ratio Lower Upper

168 100

139 42.0 33.0 49.6

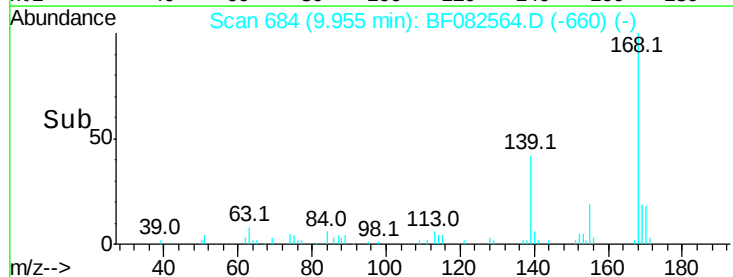
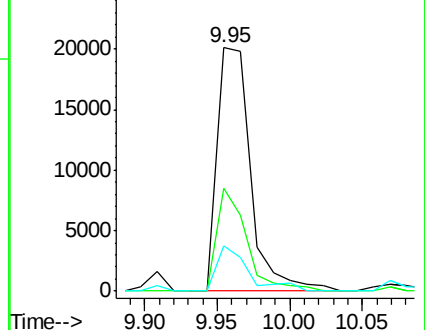
169 18.7 11.0 16.4#

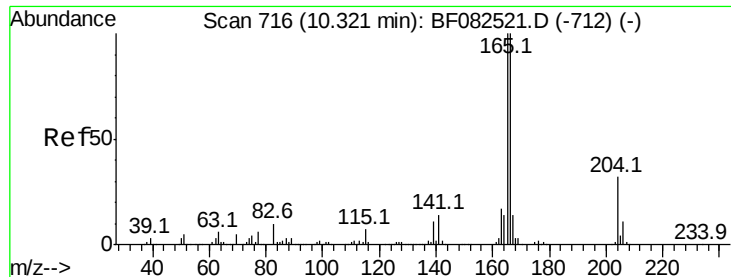


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

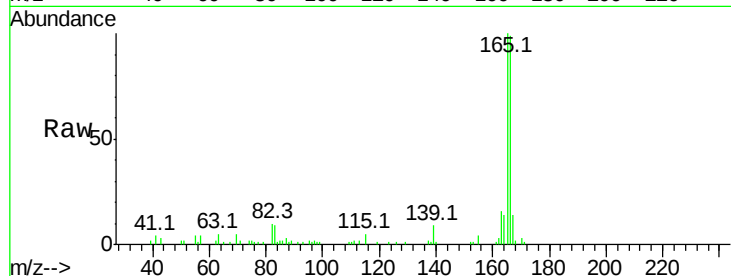




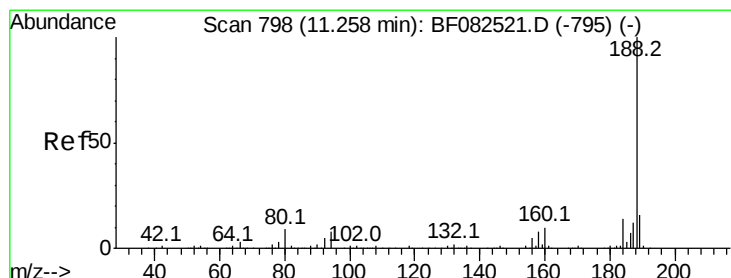
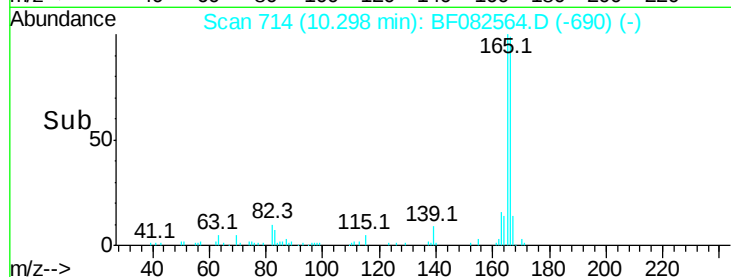
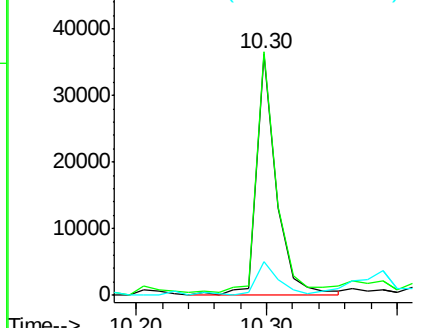
#57
Fluorene
 Concen: 3.98 ng
 RT: 10.30 min Scan# 714
 Delta R.T. -0.02 min
 Lab File: BF082564.D
 Acq: 27 Oct 2015 23:38

Instrument :
 BNA_F
 ClientSampleId :
 CWC-2-20151026

Tot Ion:166 Resp: 38881
 Ion Ratio Lower Upper
 166 100
 165 100.8 79.7 119.5
 167 14.1 11.0 16.4

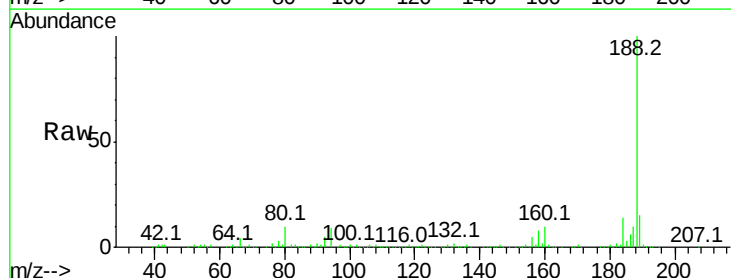


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

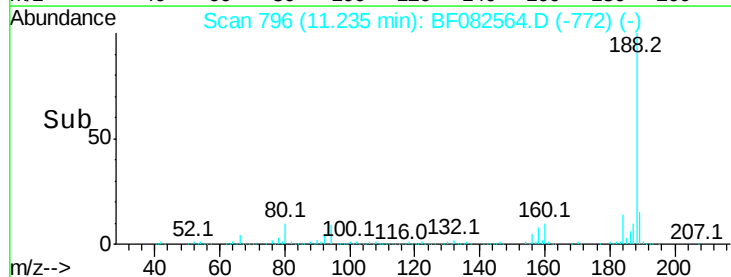
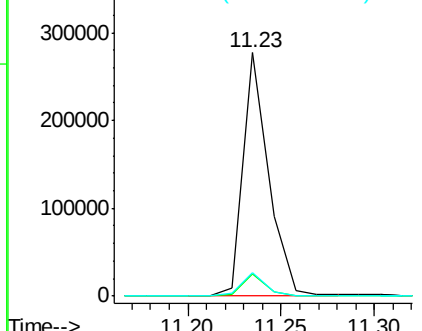


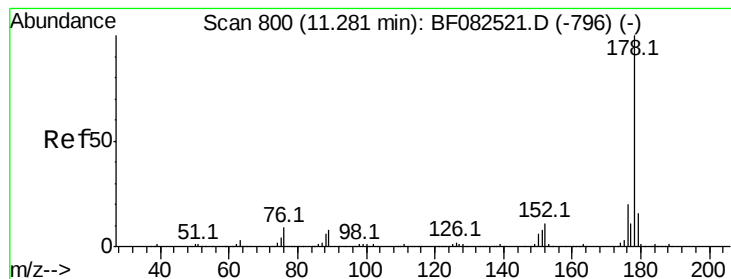
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.23 min Scan# 796
 Delta R.T. -0.02 min
 Lab File: BF082564.D
 Acq: 27 Oct 2015 23:38

Tgt Ion:188 Resp: 266148
 Ion Ratio Lower Upper
 188 100
 94 9.1 6.4 9.6
 80 9.8 7.0 10.6



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: 32.30 ng

RT: 11.26 min Scan# 798

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Instrument :

BNA_F

ClientSampleId :

CWC-2-20151026

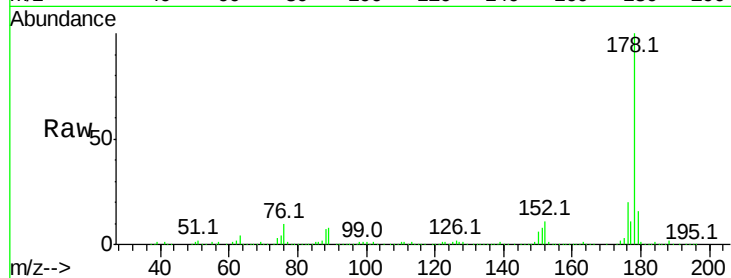
Tot Ion:178 Resp: 442349

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

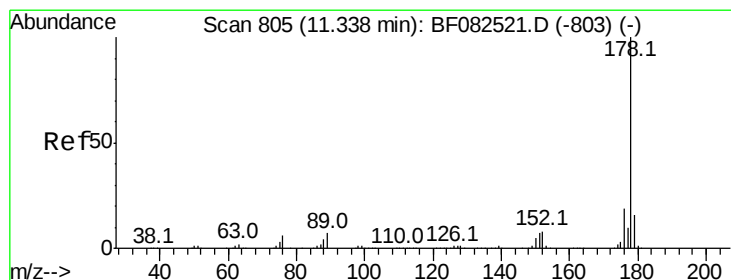
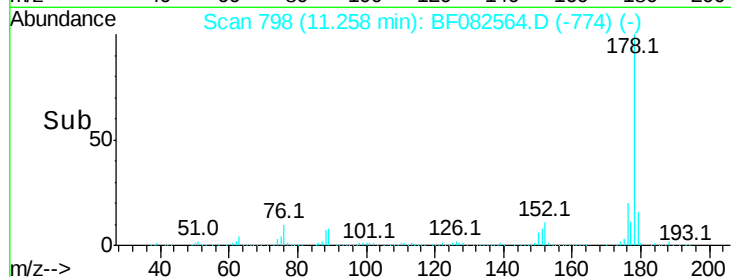
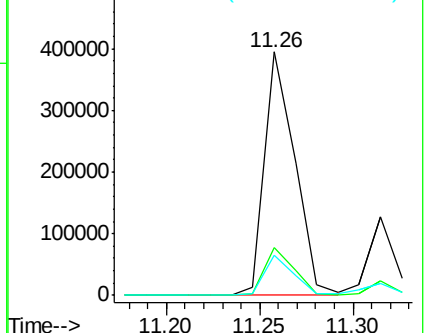
179 16.3 12.8 19.2



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: 9.51 ng

RT: 11.31 min Scan# 803

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

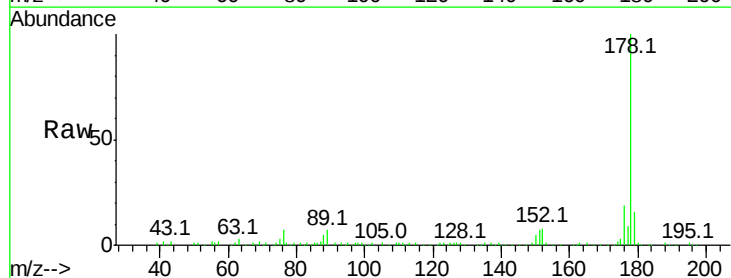
Tgt Ion:178 Resp: 131208

Ion Ratio Lower Upper

178 100

176 18.6 15.2 22.8

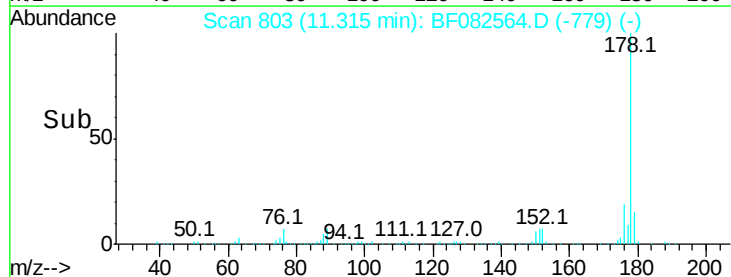
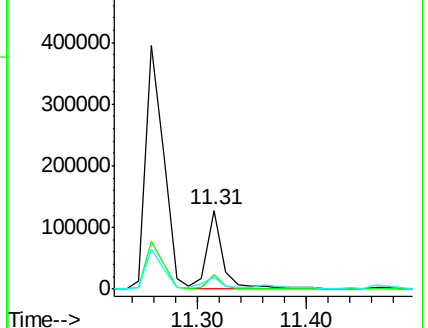
179 15.7 12.6 19.0

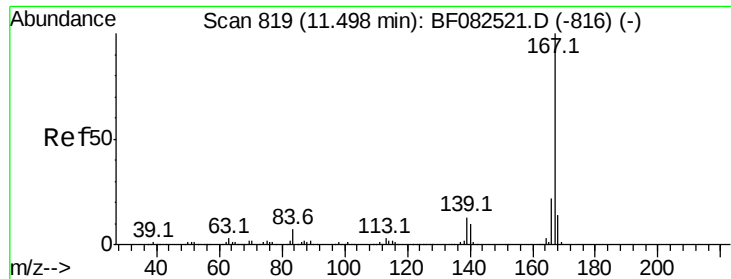


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.46 ng

RT: 11.49 min Scan# 818

Delta R.T. -0.01 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Instrument :

BNA_F

ClientSampleId :

CWC-2-20151026

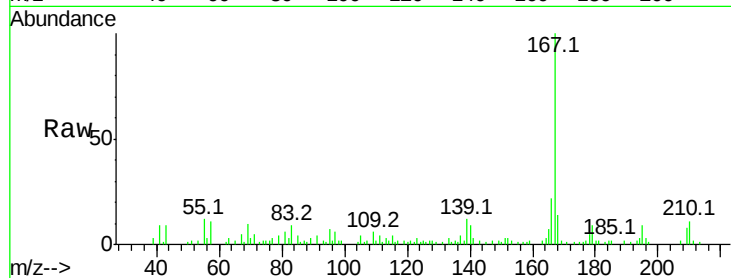
Tot Ion:167 Resp: 42086

Ion Ratio Lower Upper

167 100

166 21.7 17.9 26.9

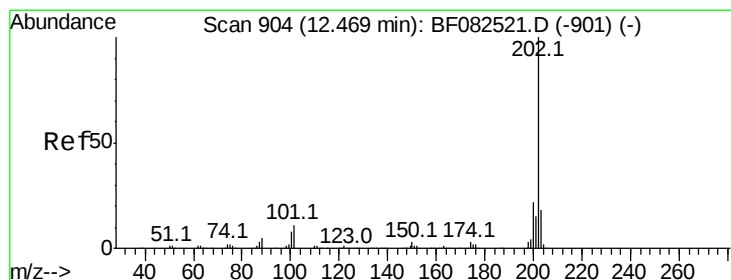
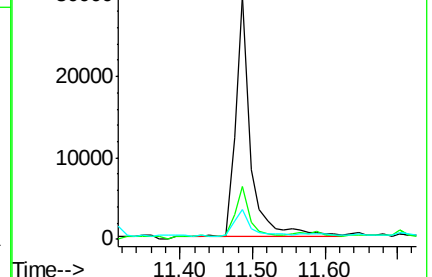
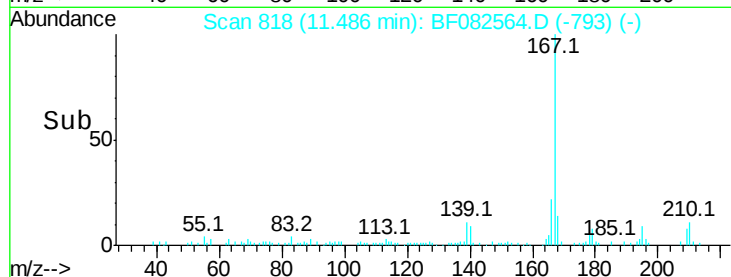
139 12.3 10.4 15.6



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



#74

Fluoranthene

Concen: 37.38 ng

RT: 12.45 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

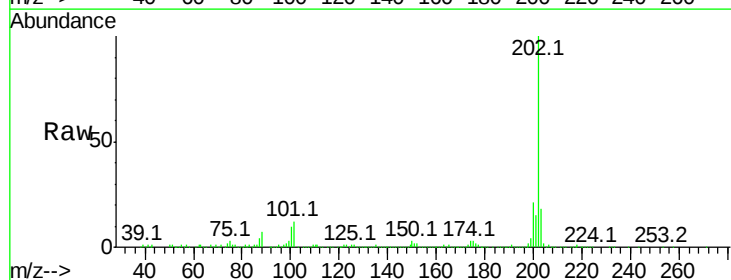
Tgt Ion:202 Resp: 525572

Ion Ratio Lower Upper

202 100

101 12.4 0.0 31.2

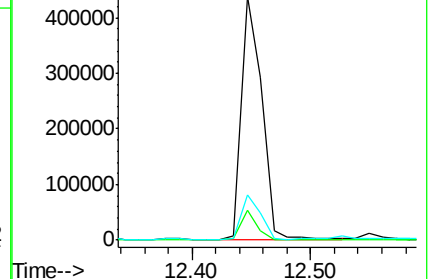
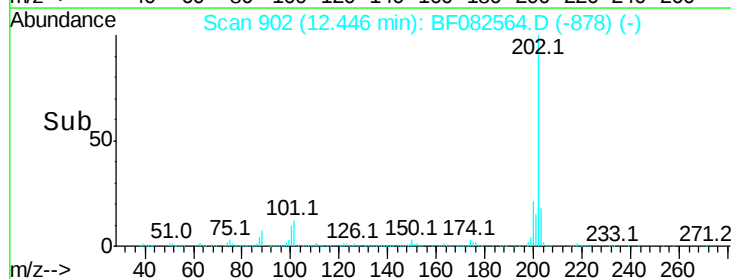
203 18.3 0.0 38.1

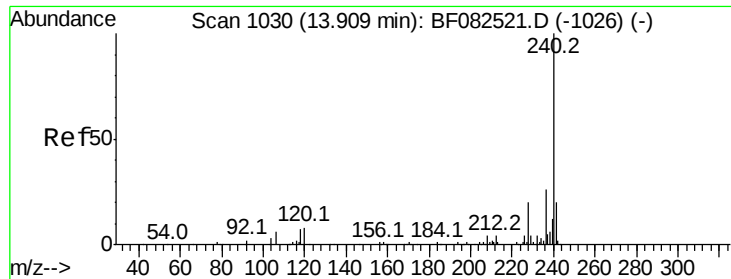


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.88 min Scan# 1027

Delta R.T. -0.03 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Instrument :

BNA_F

ClientSampleId :

CWC-2-20151026

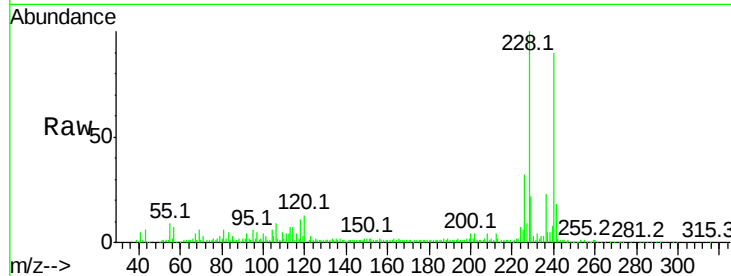
Tot Ion:240 Resp: 165608

Ion Ratio Lower Upper

240 100

120 14.1 6.5 9.7#

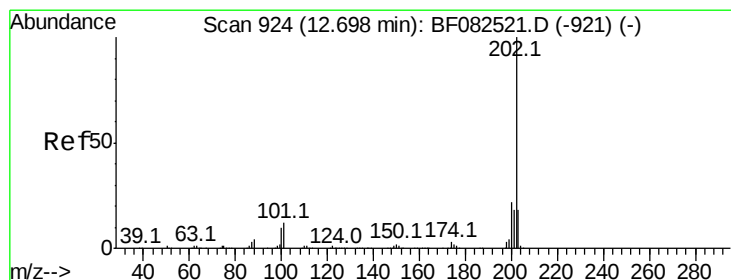
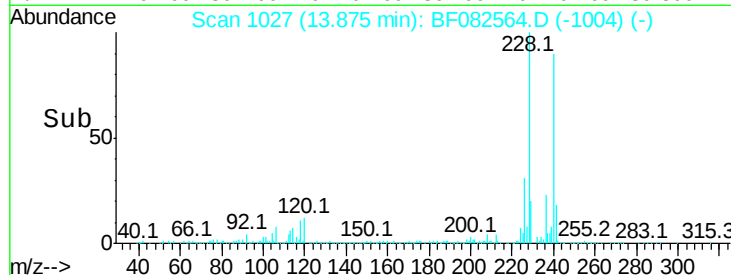
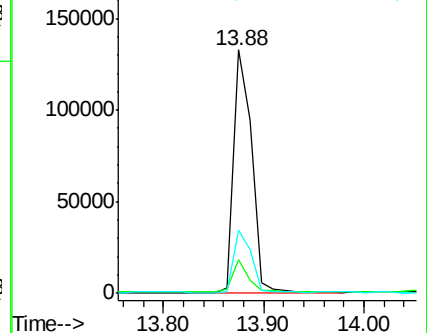
236 26.0 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 46.46 ng

RT: 12.67 min Scan# 922

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

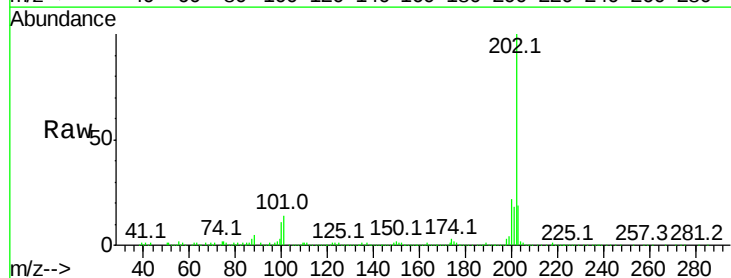
Tgt Ion:202 Resp: 473299

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

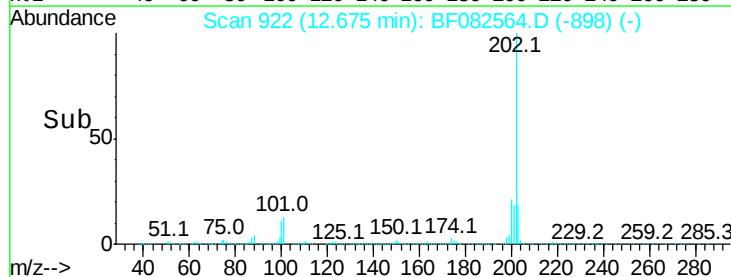
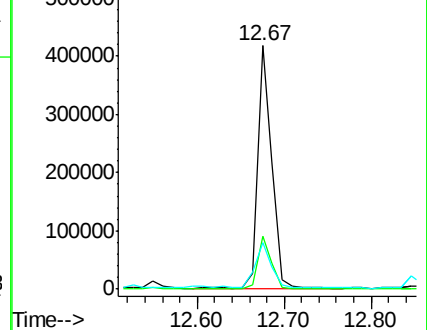
203 18.9 14.6 22.0

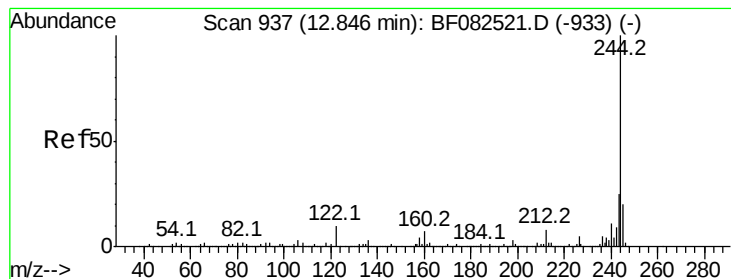


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 118.92 ng

RT: 12.82 min Scan# 935

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Instrument :

BNA_F

ClientSampleId :

CWC-2-20151026

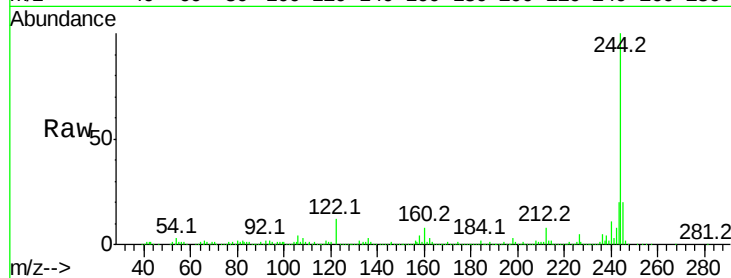
Tot Ion:244 Resp: 683599

Ion Ratio Lower Upper

244 100

212 8.2 6.4 9.6

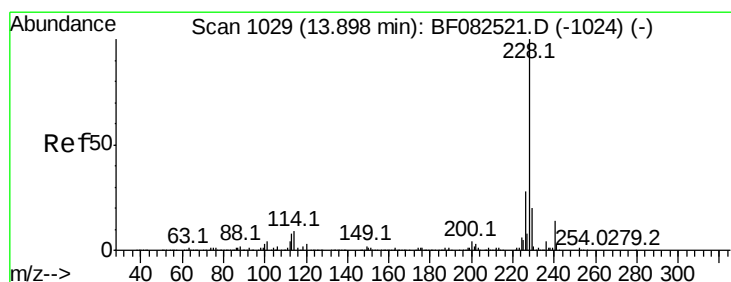
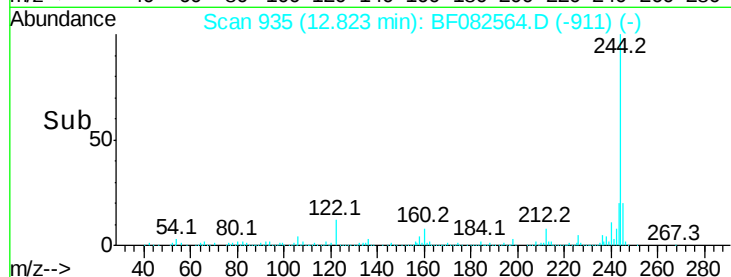
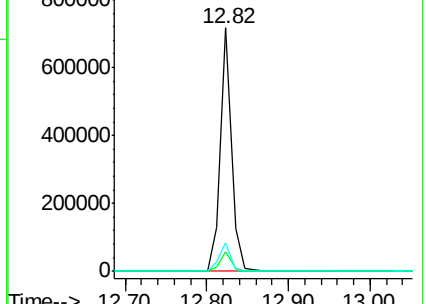
122 11.7 8.1 12.1



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: 24.29 ng

RT: 13.88 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

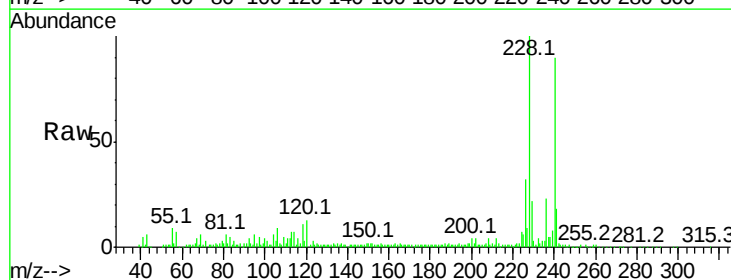
Tgt Ion:228 Resp: 215654

Ion Ratio Lower Upper

228 100

226 31.6 22.1 33.1

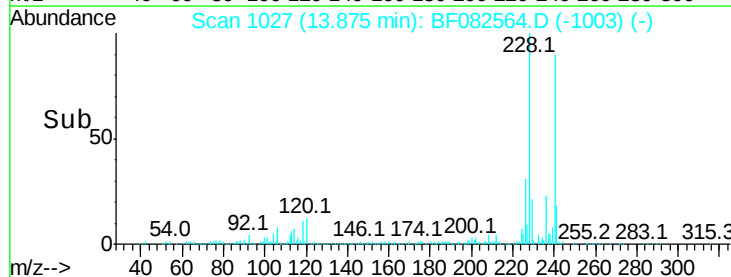
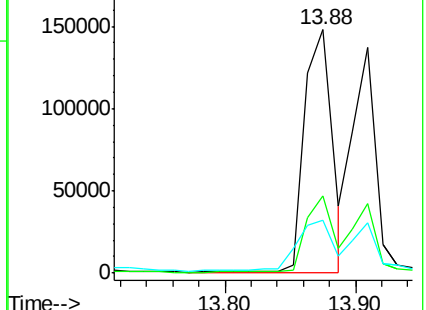
229 21.6 16.1 24.1

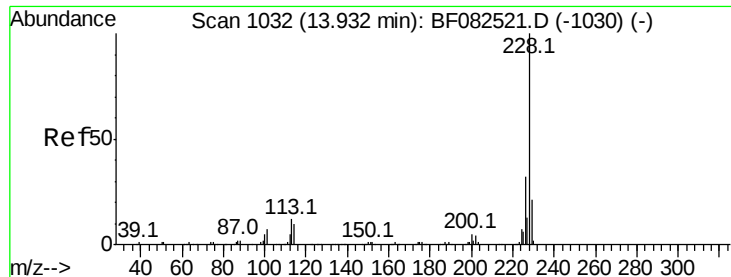


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 20.75 ng/mL

RT: 13.91 min Scan# 1030

Delta R.T. -0.02 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Instrument :

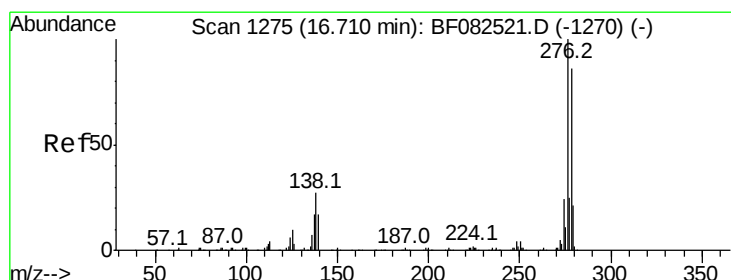
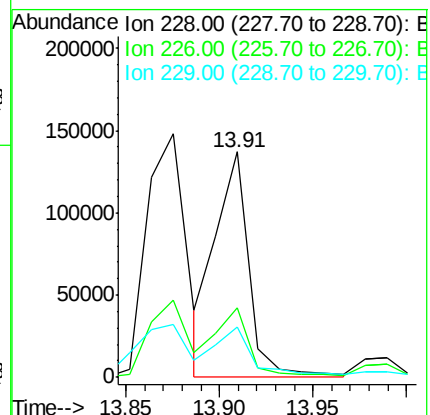
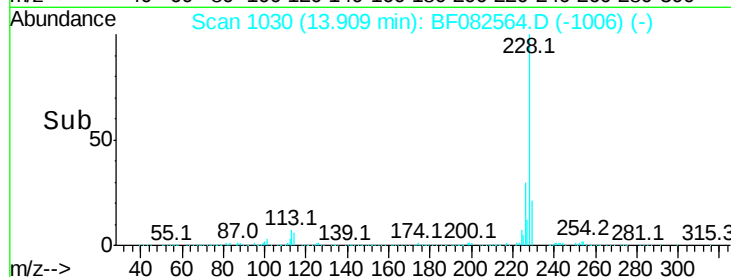
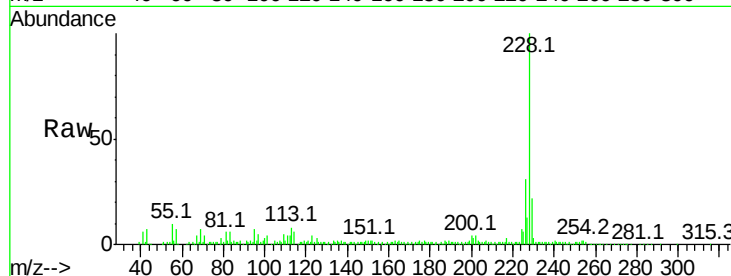
BNA_F

ClientSampleId :

CWC-2-20151026

Tot Ion:228 Resp: 174016

Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.2	37.8
229	22.3	16.3	24.5



#85

Indeno(1,2,3-cd)pyrene

Concen: 15.33 ng/mL

RT: 16.65 min Scan# 1270

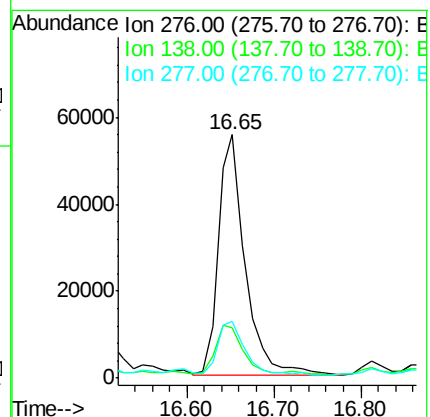
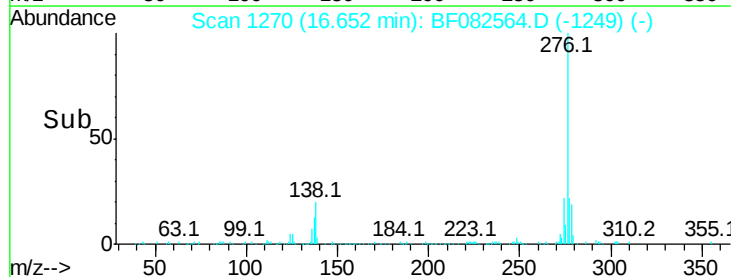
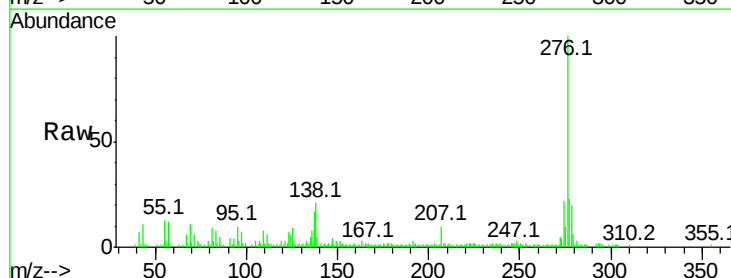
Delta R.T. -0.06 min

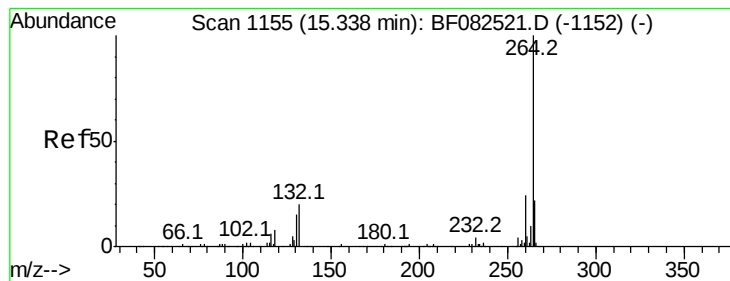
Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Tgt Ion:276 Resp: 118145

Ion	Ratio	Lower	Upper
276	100		
138	20.7	20.6	30.8
277	23.3	19.9	29.9





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.29 min Scan# 1151

Delta R.T. -0.05 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

Instrument :

BNA_F

ClientSampleId :

CWC-2-20151026

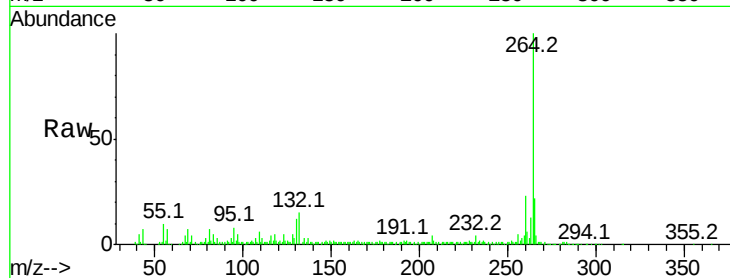
Tot Ion:264 Resp: 168049

Ion Ratio Lower Upper

264 100

260 23.3 19.0 28.6

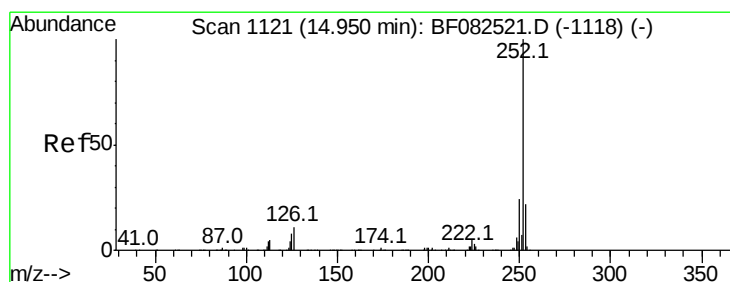
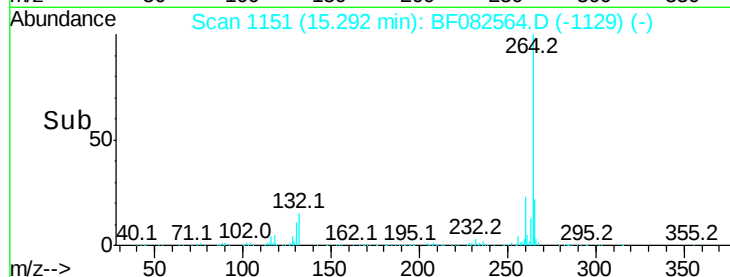
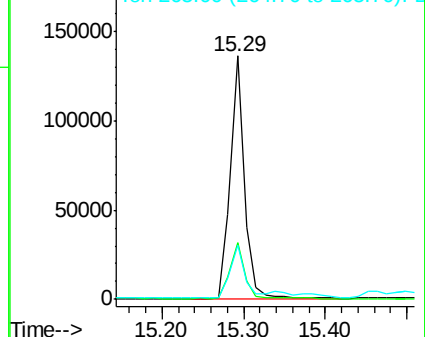
265 22.4 17.8 26.6



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: 25.41 ng m

RT: 14.89 min Scan# 1116

Delta R.T. -0.06 min

Lab File: BF082564.D

Acq: 27 Oct 2015 23:38

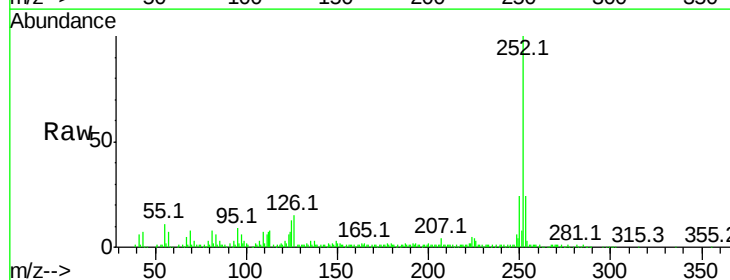
Tgt Ion:252 Resp: 253590

Ion Ratio Lower Upper

252 100

253 23.9 17.8 26.8

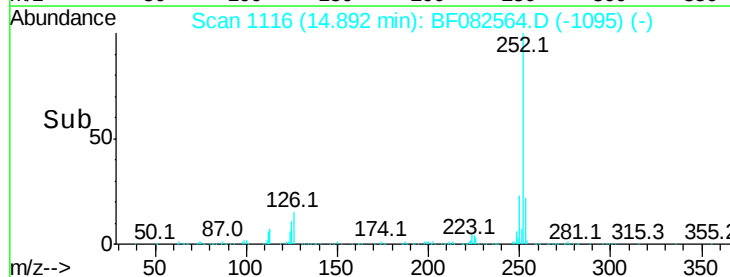
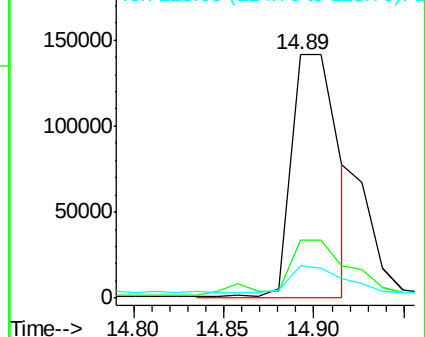
125 13.2 6.6 10.0#

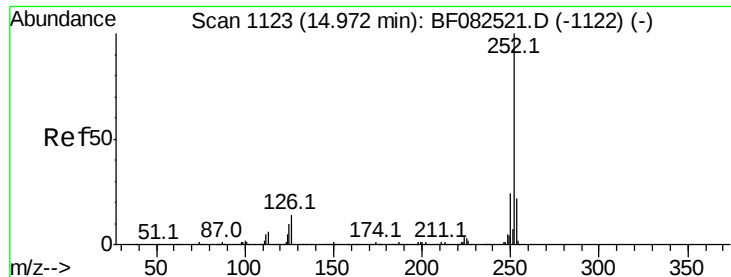


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

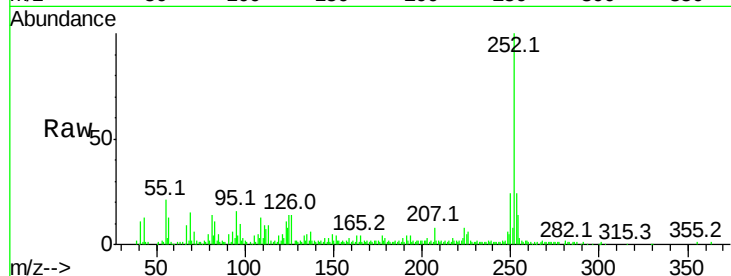




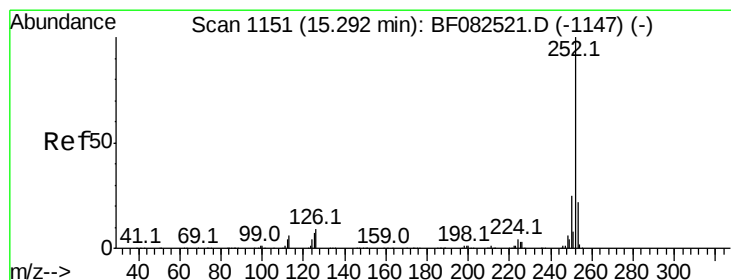
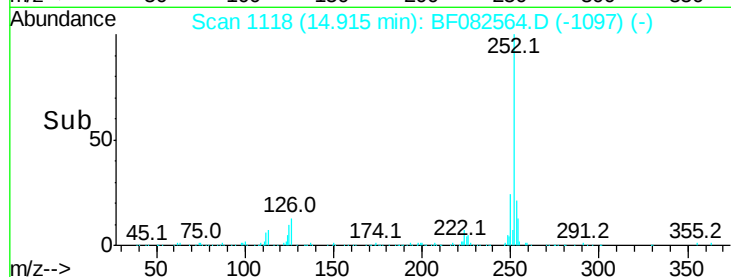
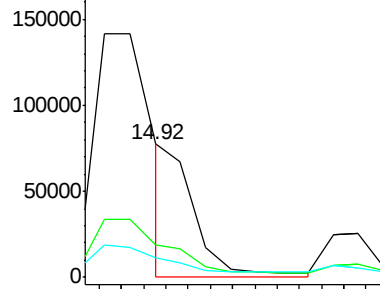
#88
Benzo(k)fluoranthene
Concen: 8.13 ng m
RT: 14.92 min Scan# 1118
Delta R.T. -0.06 min
Lab File: BF082564.D
Acq: 27 Oct 2015 23:38

Instrument :
BNA_F
ClientSampleId :
CWC-2-20151026

Tot Ion:252 Resp: 66160
Ion Ratio Lower Upper
252 100
253 23.9 17.8 26.6
125 14.3 8.7 13.1#

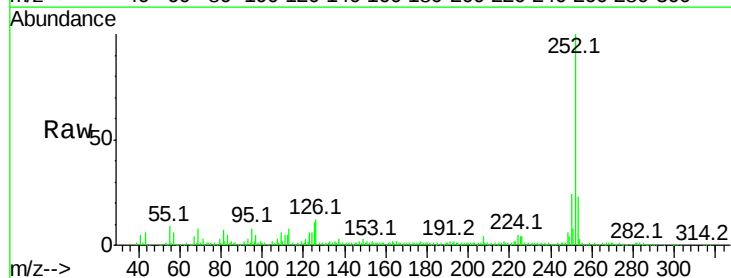


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

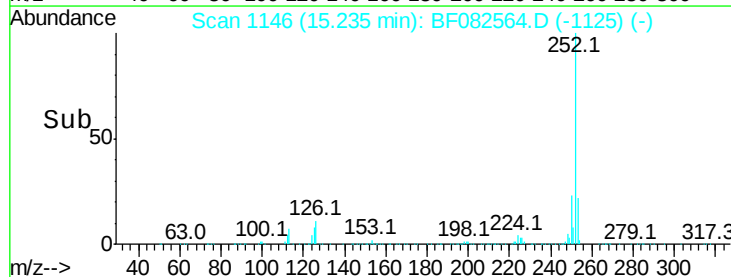
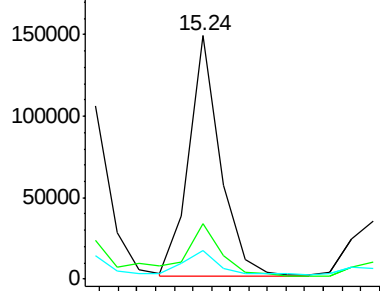


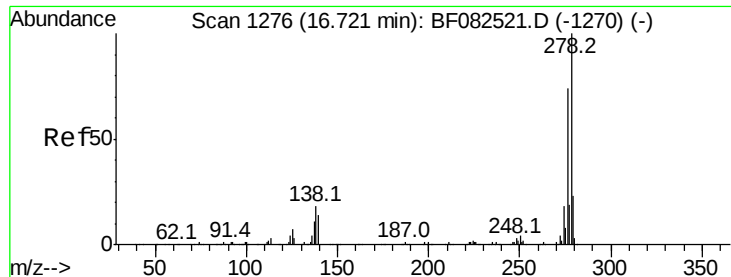
#89
Benzo(a)pyrene
Concen: 20.36 ng
RT: 15.24 min Scan# 1146
Delta R.T. -0.06 min
Lab File: BF082564.D
Acq: 27 Oct 2015 23:38

Tgt Ion:252 Resp: 176001
Ion Ratio Lower Upper
252 100
253 23.0 17.3 25.9
125 11.5 5.9 8.9#



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



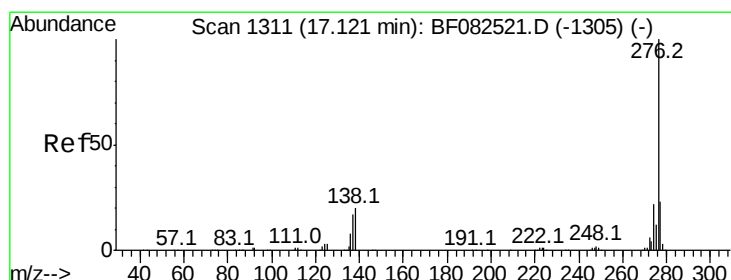
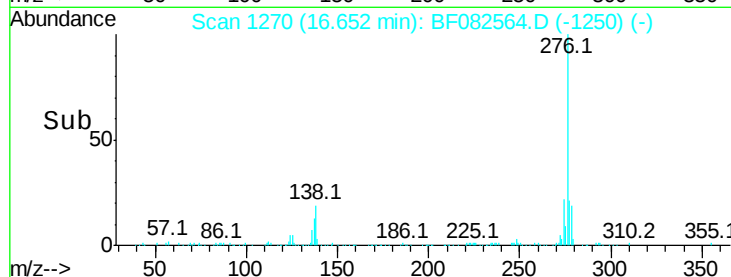
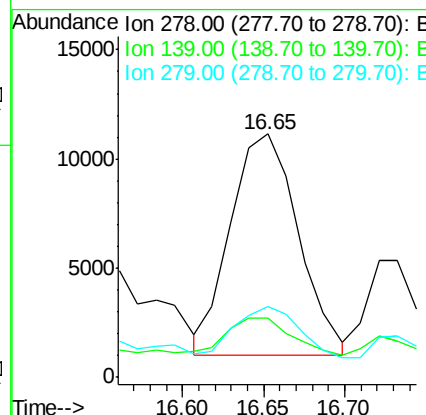
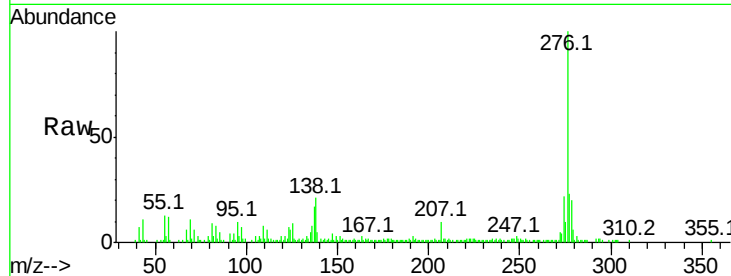


#90
Dibenzo(a,h)anthracene
Concen: 4.05 ng m
RT: 16.65 min Scan# 1270
Delta R.T. -0.07 min
Lab File: BF082564.D
Acq: 27 Oct 2015 23:38

Instrument :
BNA_F
ClientSampleId :
CWC-2-20151026

Tot Ion:278 Resp: 29282

Ion	Ratio	Lower	Upper
278	100		
139	24.1	11.6	17.4#
279	29.3	18.7	28.1#



#91
Benzo(g,h,i)perylene
Concen: 16.12 ng
RT: 17.05 min Scan# 1305
Delta R.T. -0.07 min
Lab File: BF082564.D
Acq: 27 Oct 2015 23:38

Tgt Ion:276 Resp: 115373

Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.3	27.5
138	24.3	16.0	24.0#

