

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051815\
 Data File : BF079318.D
 Acq On : 18 May 2015 22:12
 Operator : TP/IZ
 Sample : G2250-15DL 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-08-D1DL

Quant Time: May 19 01:45:29 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 19 01:26:54 2015
 Response via : Initial Calibration

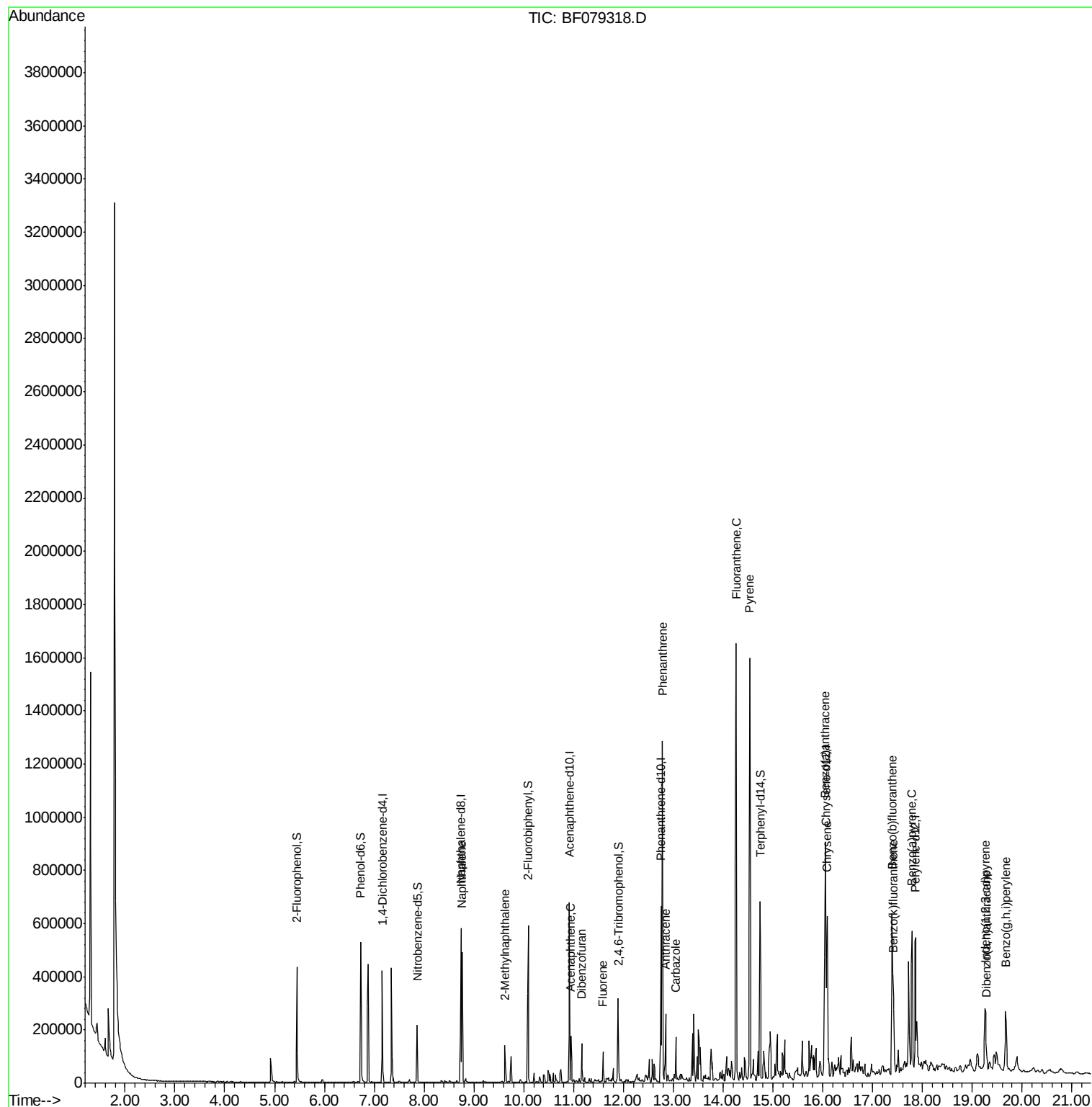
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.16	152	64372	20.00	ng	0.00
21) Naphthalene-d8	8.74	136	270691	20.00	ng	0.00
38) Acenaphthene-d10	10.91	164	137444	20.00	ng	0.00
63) Phenanthrene-d10	12.75	188	254940	20.00	ng	0.00
75) Chrysene-d12	16.06	240	262083	20.00	ng	0.00
86) Perylene-d12	17.86	264	287713	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	136130m	36.40	ng	0.00
7) Phenol-d6	6.73	99	186299	37.69	ng	-0.01
23) Nitrobenzene-d5	7.86	82	102584	21.78	ng	0.00
41) 2,4,6-Tribromophenol	11.90	330	47051	31.64	ng	0.00
44) 2-Fluorobiphenyl	10.09	172	224369	22.74	ng	0.00
78) Terphenyl-d14	14.74	244	245251	22.40	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.76	128	210989	16.36	ng	99
37) 2-Methylnaphthalene	9.62	142	43864	4.91	ng	96
51) Acenaphthene	10.95	154	42856	5.14	ng	99
54) Dibenzofuran	11.16	168	56821	4.71	ng	99
57) Fluorene	11.59	166	36713	3.71	ng	99
70) Phenanthrene	12.79	178	665062	46.63	ng	100
71) Anthracene	12.85	178	105041	7.51	ng	99
72) Carbazole	13.05	167	68799	5.16	ng	100
74) Fluoranthene	14.26	202	773208	52.03	ng	95
77) Pyrene	14.54	202	688749	45.61	ng	99
80) Benzo(a)anthracene	16.05	228	307289	21.41	ng	98
82) Chrysene	16.09	228	321174	23.27	ng	97
85) Indeno(1,2,3-cd)pyrene	19.26	276	177680	10.10	ng	96
87) Benzo(b)fluoranthene	17.39	252	428402m	27.20	ng	
88) Benzo(k)fluoranthene	17.42	252	85376m	5.60	ng	
89) Benzo(a)pyrene	17.79	252	284253	19.60	ng	99
90) Dibenzo(a,h)anthracene	19.28	278	40760	2.64	ng	93
91) Benzo(g,h,i)perylene	19.67	276	177733	11.51	ng	# 95

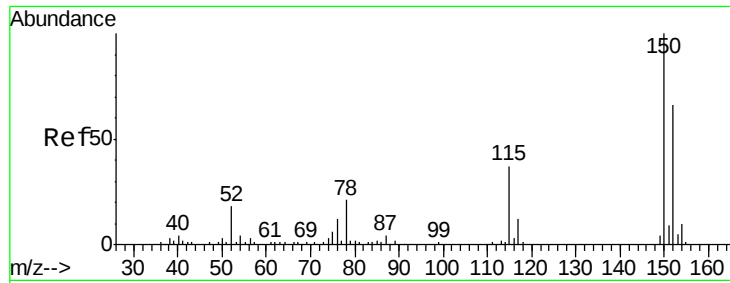
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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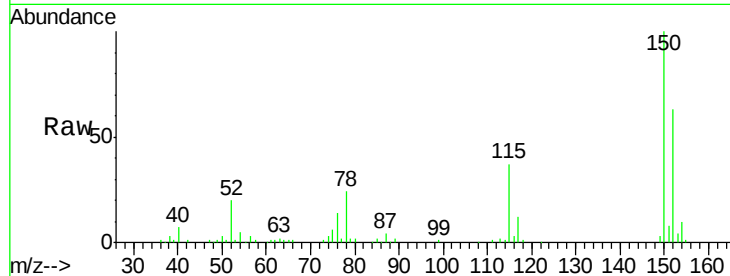




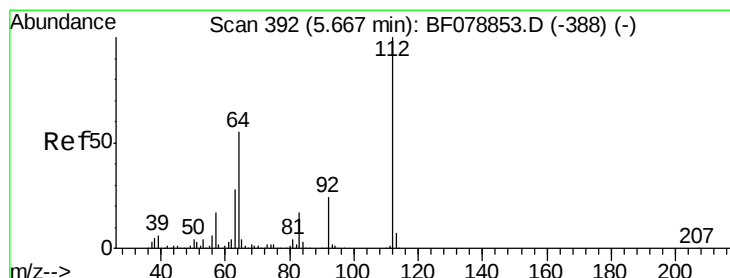
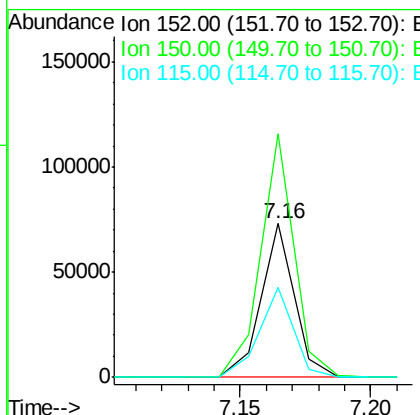
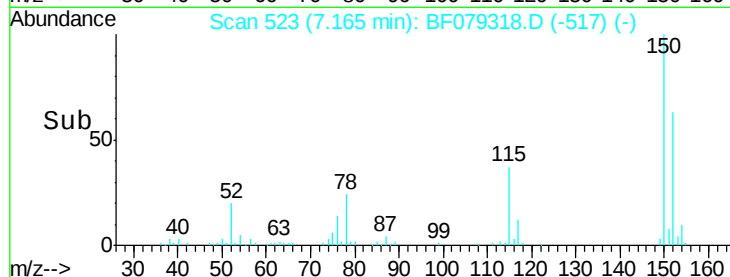
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.16 min Scan# 523
 Delta R.T. -0.00 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

Instrument :
 BNA_F
 ClientSampleId :
 WC-08-D1DL

Tot Ion:	152	Resp:	64372
Ion	Ratio	Lower	Upper
152	100		
150	158.7	123.8	185.8
115	58.5	49.4	74.0

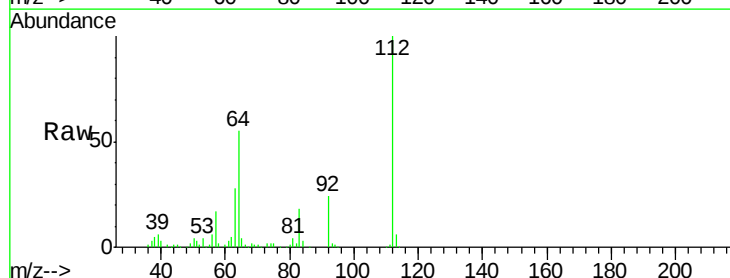


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

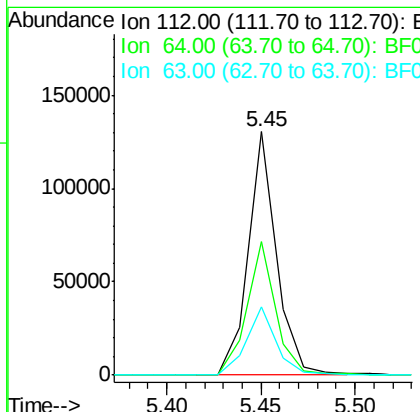
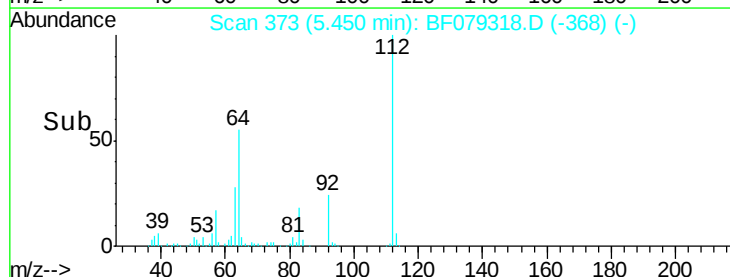


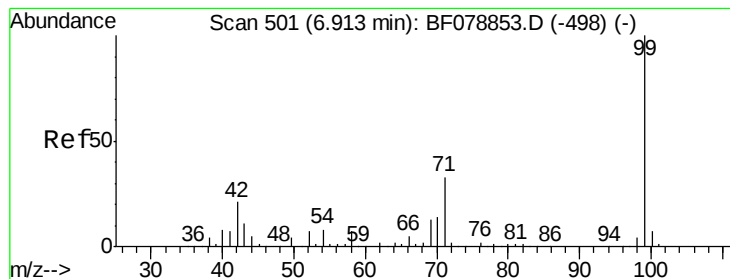
#5
 2-Fluorophenol
 Concen: 36.40 ng m
 RT: 5.45 min Scan# 373
 Delta R.T. -0.00 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

Tgt Ion:	112	Resp:	136130
Ion	Ratio	Lower	Upper
112	100		
64	54.9	44.2	66.2
63	28.2	22.7	34.1



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: 37.69 ng

RT: 6.73 min Scan# 485

Delta R.T. -0.01 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

Instrument :

BNA_F

ClientSampleId :

WC-08-D1DL

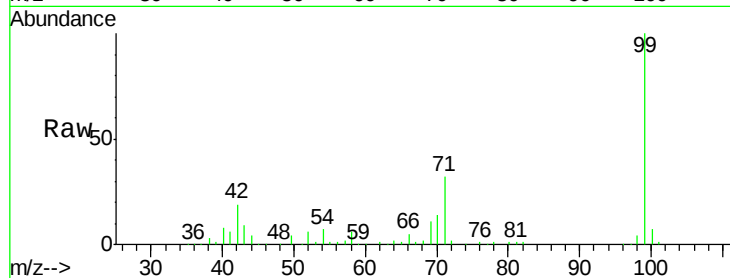
Tot Ion: 99 Resp: 186299

Ion Ratio Lower Upper

99 100

42 18.8 17.1 25.7

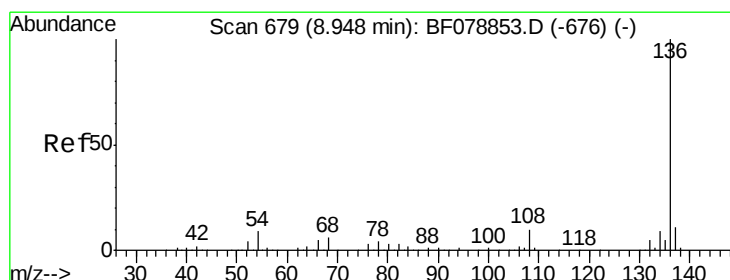
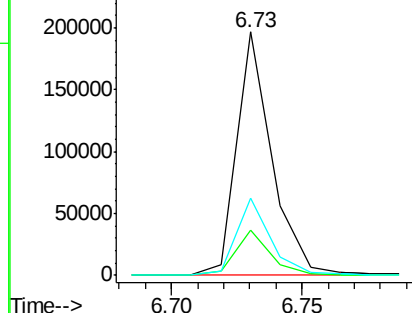
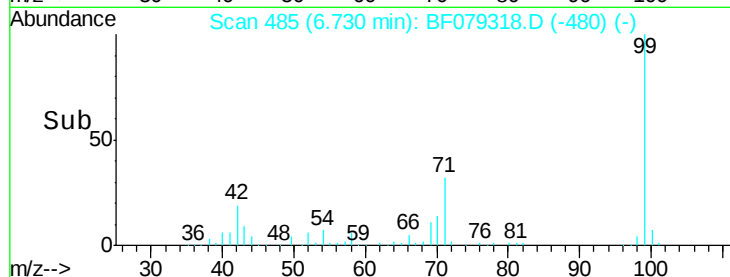
71 31.5 26.3 39.5



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: 8.74 min Scan# 661

Delta R.T. -0.00 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

Tgt Ion: 136 Resp: 270691

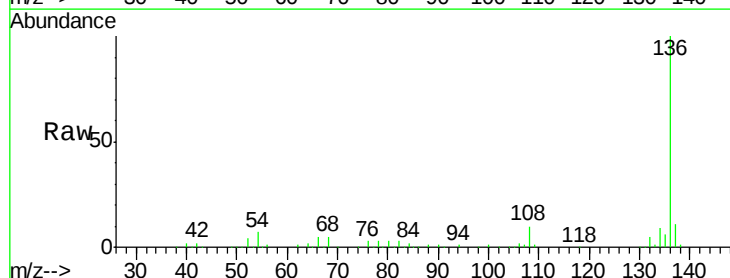
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 6.8 6.9 10.3#

68 5.1 4.9 7.3

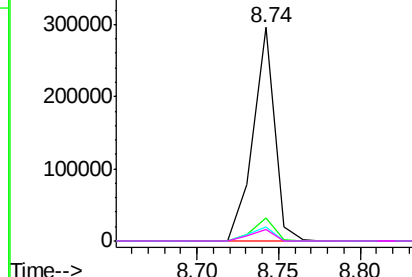
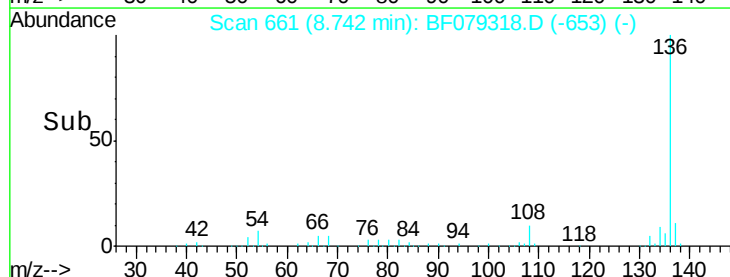


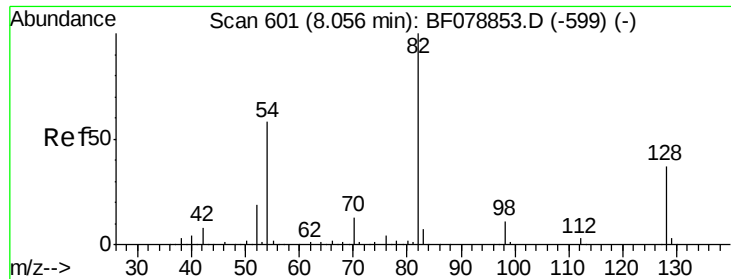
Abundance Ion 136.00 (135.70 to 136.70): E

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

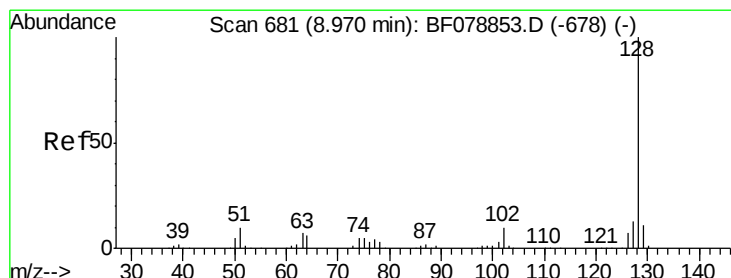
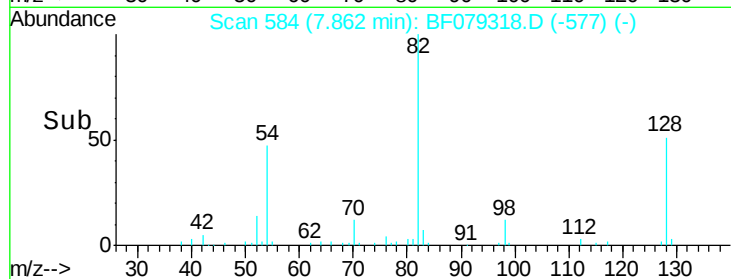
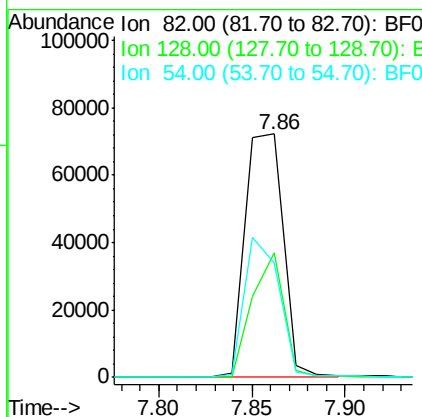
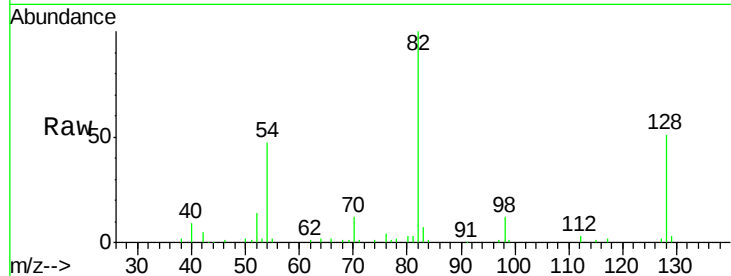




#23
 Nitrobenzene-d5
 Concen: 21.78 ng
 RT: 7.86 min Scan# 584
 Delta R.T. -0.00 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

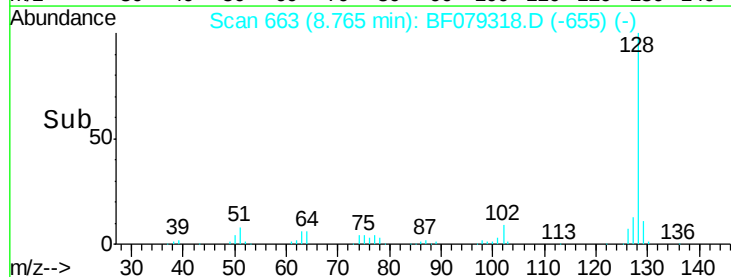
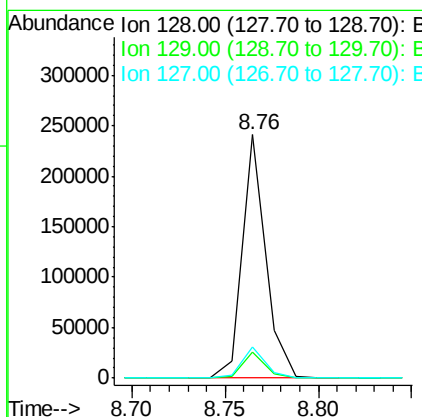
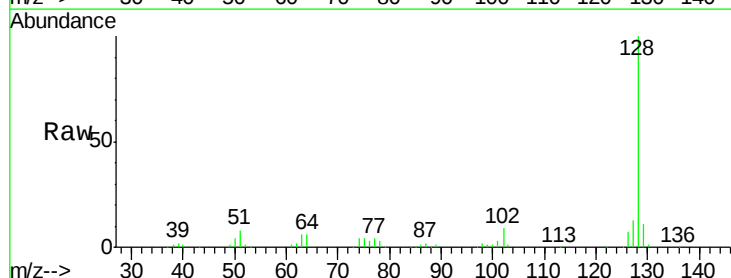
Instrument :
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 WC-08-D1DL

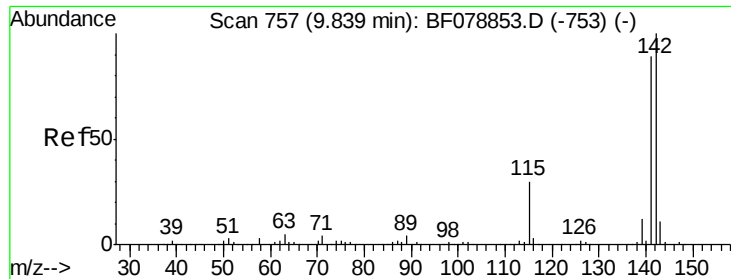
Tot Ion	82	Resp	102584
Ion Ratio	100	Lower	Upper
128	51.0	29.7	44.5#
54	47.0	46.2	69.4



#31
 Naphthalene
 Concen: 16.36 ng
 RT: 8.76 min Scan# 663
 Delta R.T. -0.00 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

Tgt Ion	128	Resp	210989
Ion Ratio	100	Lower	Upper
129	10.9	9.2	13.8
127	12.9	10.3	15.5

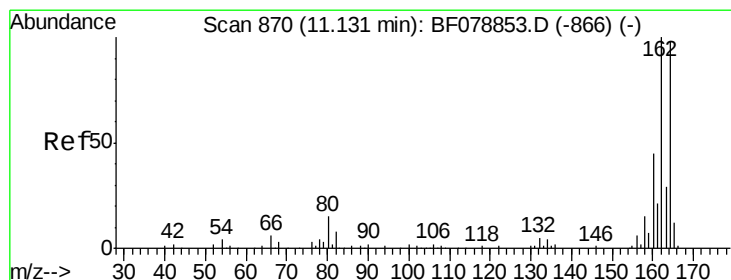
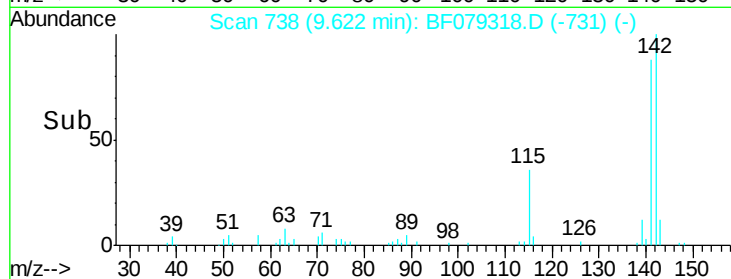
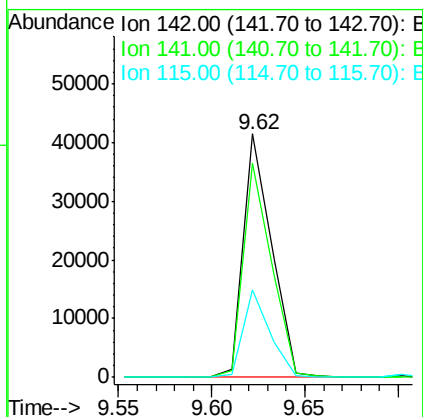
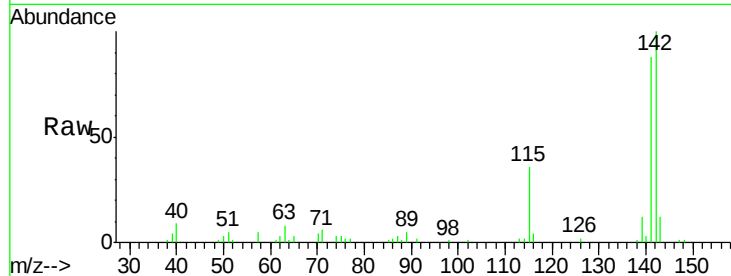




#37
 2-Methylnaphthalene
 Concen: 4.91 ng
 RT: 9.62 min Scan# 738
 Delta R.T. -0.01 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

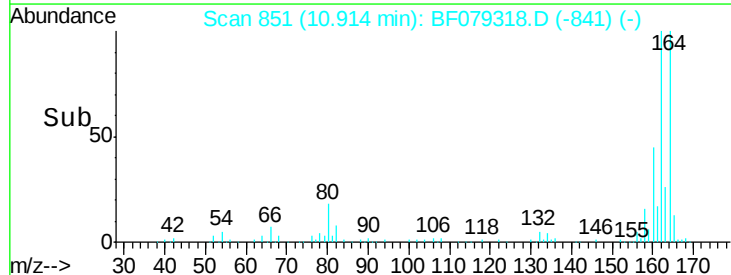
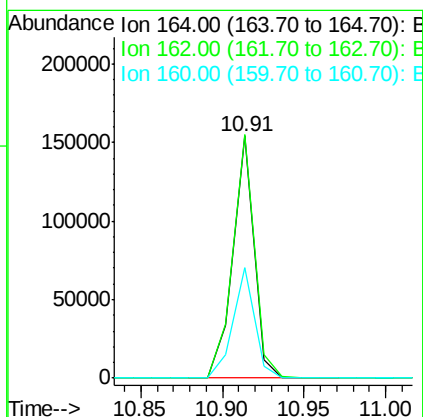
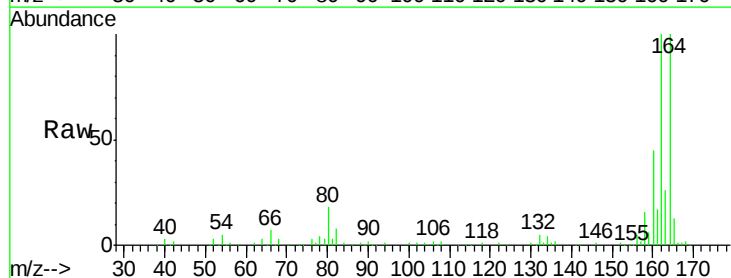
Instrument :
 BNA_F
 ClientSampleID :
 WC-08-D1DL

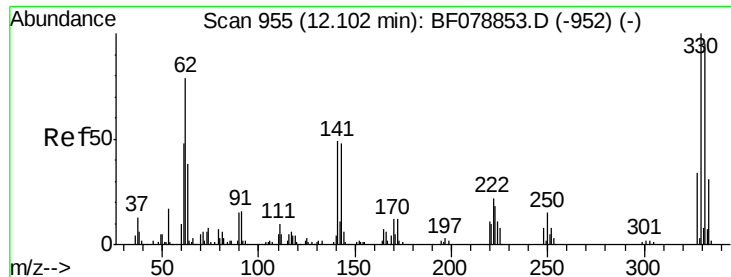
Tot Ion:142 Resp: 43864
 Ion Ratio Lower Upper
 142 100
 141 88.2 71.6 107.4
 115 36.1 24.2 36.4



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.91 min Scan# 851
 Delta R.T. -0.00 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

Tgt Ion:164 Resp: 137444
 Ion Ratio Lower Upper
 164 100
 162 100.5 81.4 122.0
 160 45.7 36.6 54.8

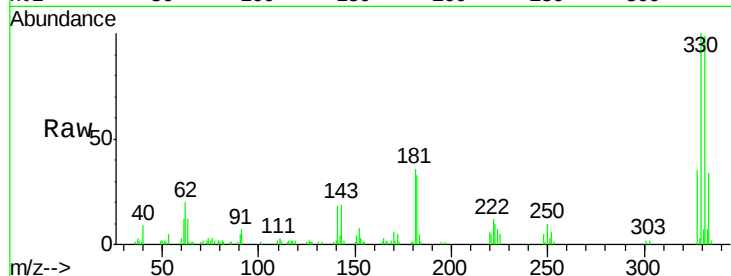




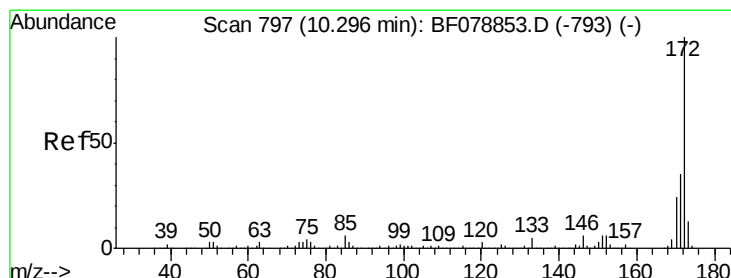
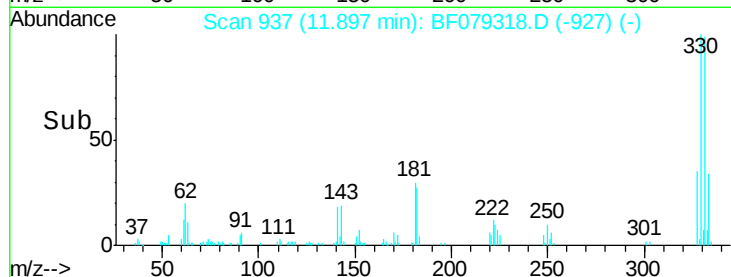
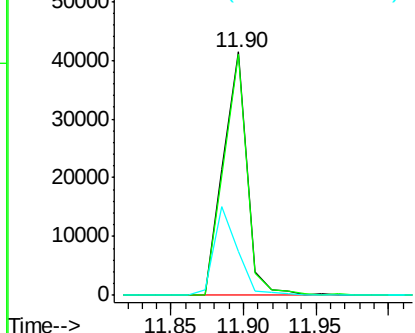
#41
 2,4,6-Tribromophenol
 Concen: 31.64 ng
 RT: 11.90 min Scan# 937
 Delta R.T. -0.00 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

Instrument :
 BNA_F
 ClientSampleId :
 WC-08-D1DL

Tot Ion:330 Resp: 47051
 Ion Ratio Lower Upper
 330 100
 332 97.7 76.9 115.3
 141 36.7 27.8 41.8

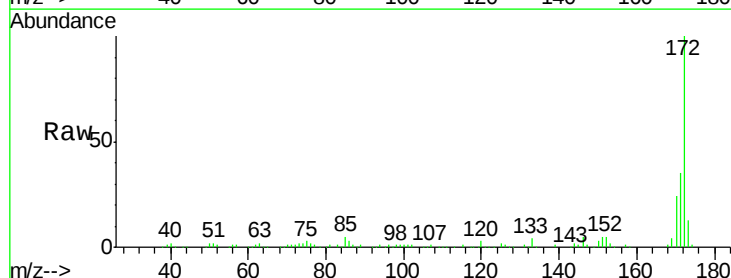


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

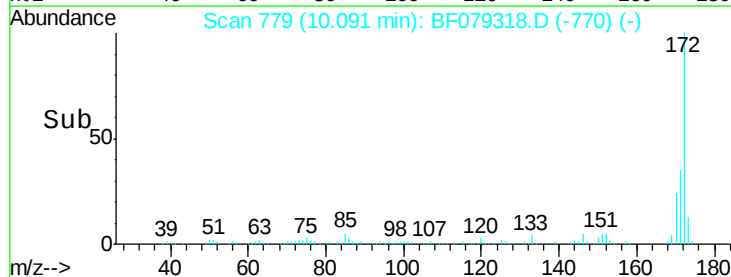
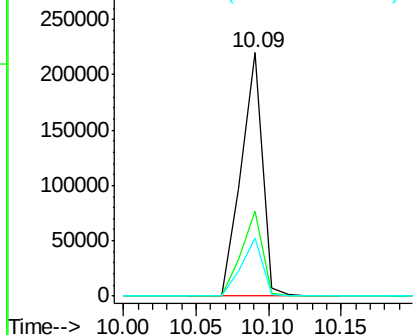


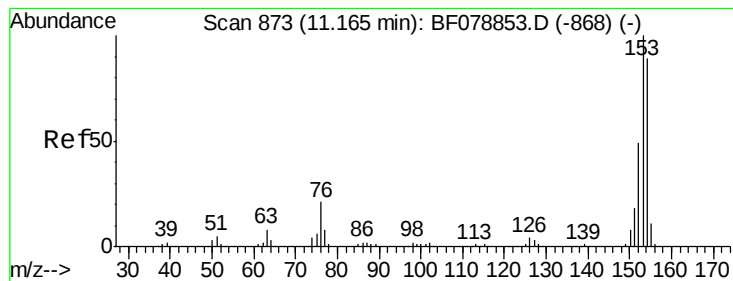
#44
 2-Fluorobiphenyl
 Concen: 22.74 ng
 RT: 10.09 min Scan# 779
 Delta R.T. -0.00 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

Tgt Ion:172 Resp: 224369
 Ion Ratio Lower Upper
 172 100
 171 34.9 28.3 42.5
 170 23.7 19.4 29.2



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





#51

Acenaphthene

Concen: 5.14 ng

RT: 10.95 min Scan# 854

Delta R.T. -0.01 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

Instrument :

BNA_F

ClientSampleId :

WC-08-D1DL

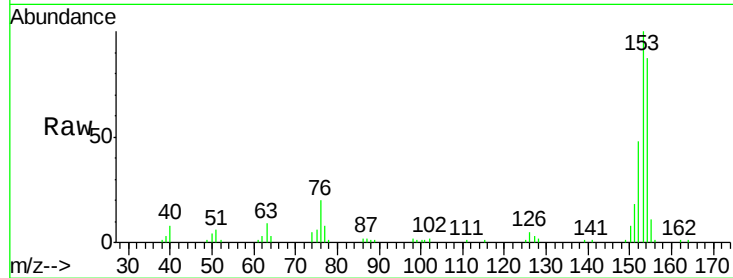
Tot Ion:154 Resp: 42856

Ion Ratio Lower Upper

154 100

153 114.9 90.2 135.2

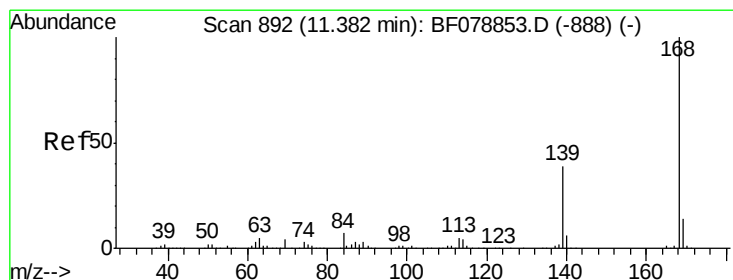
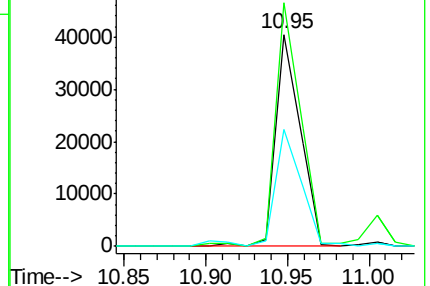
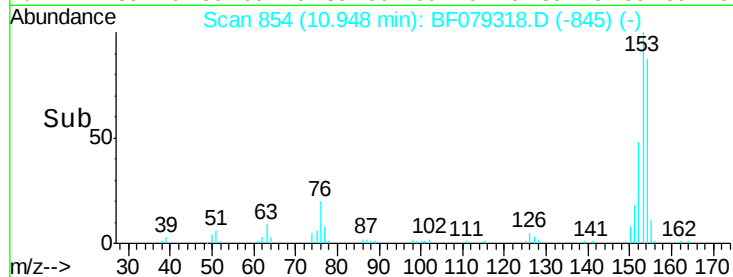
152 55.0 43.8 65.8



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: 4.71 ng

RT: 11.16 min Scan# 873

Delta R.T. -0.01 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

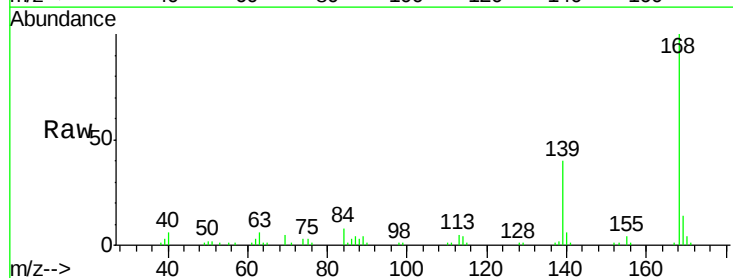
Tgt Ion:168 Resp: 56821

Ion Ratio Lower Upper

168 100

139 39.7 31.5 47.3

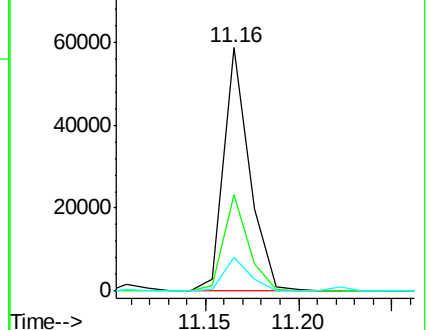
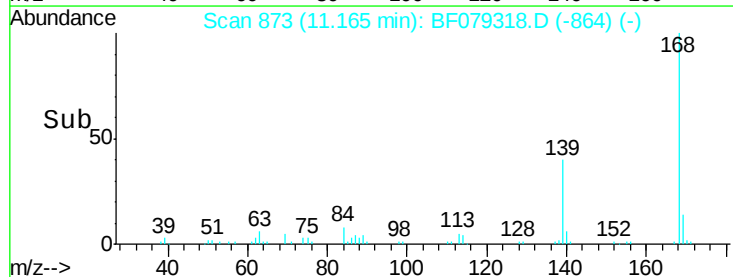
169 14.0 11.0 16.4

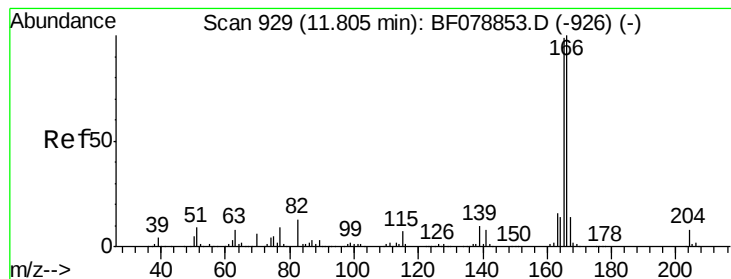


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 3.71 ng

RT: 11.59 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

Instrument :

BNA_F

ClientSampleId :

WC-08-D1DL

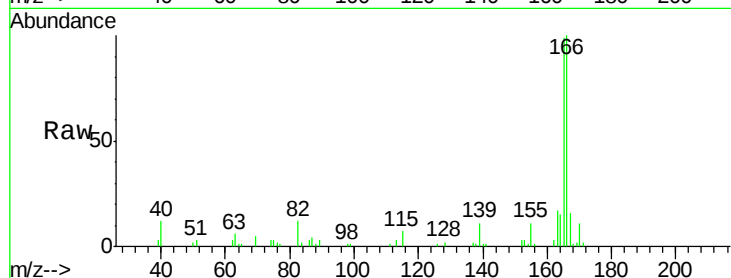
Tot Ion:166 Resp: 36713

Ion Ratio Lower Upper

166 100

165 99.4 79.5 119.3

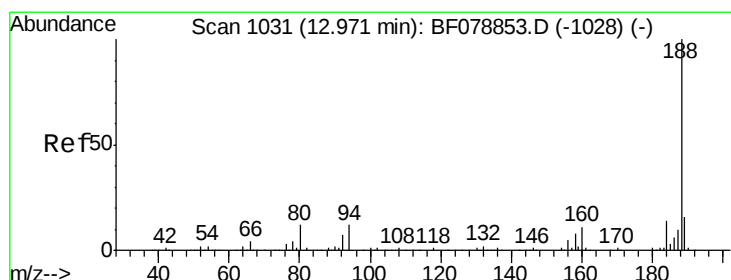
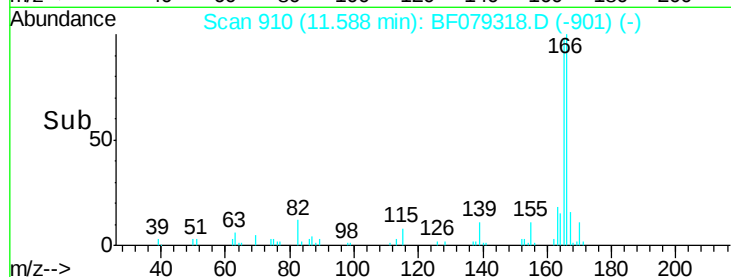
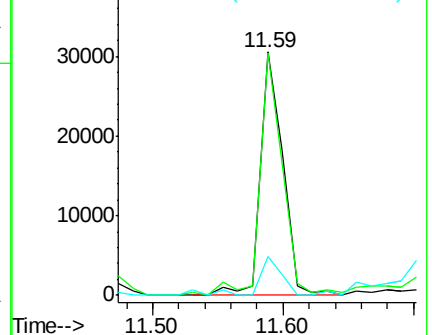
167 16.0 11.0 16.6



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: 12.75 min Scan# 1012

Delta R.T. -0.00 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

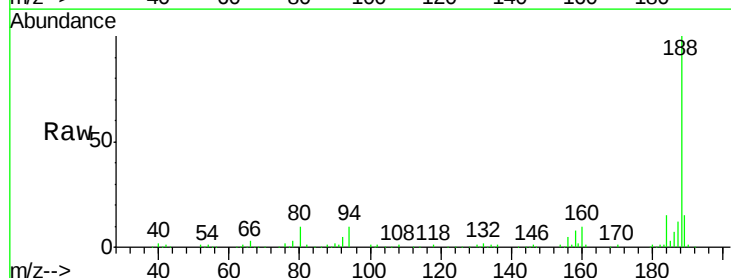
Tgt Ion:188 Resp: 254940

Ion Ratio Lower Upper

188 100

94 9.6 9.4 14.0

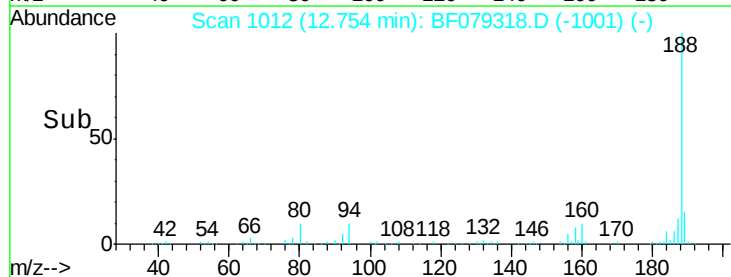
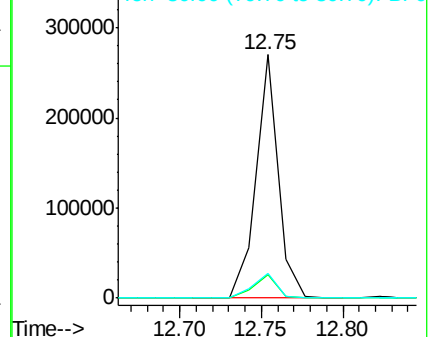
80 9.9 9.8 14.6

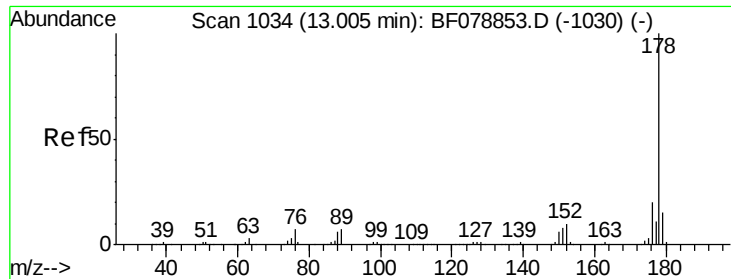


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

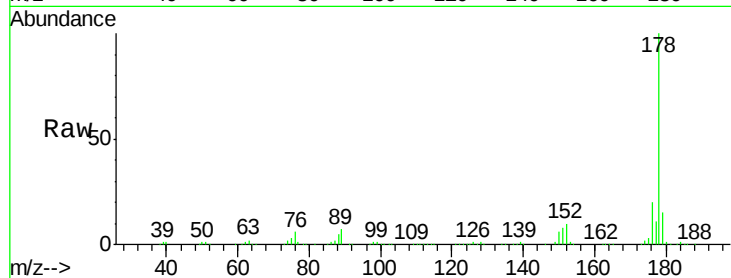




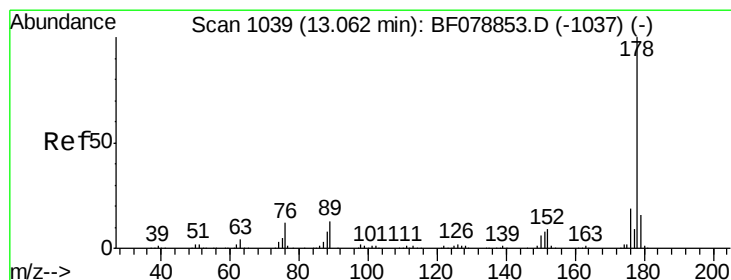
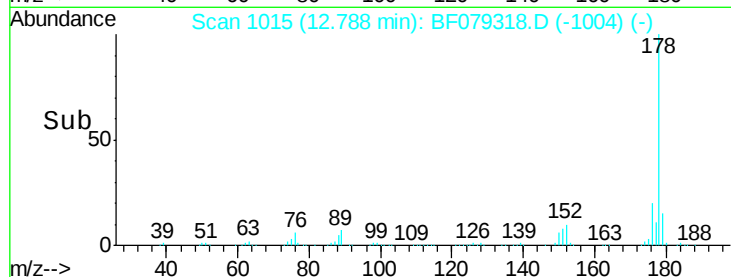
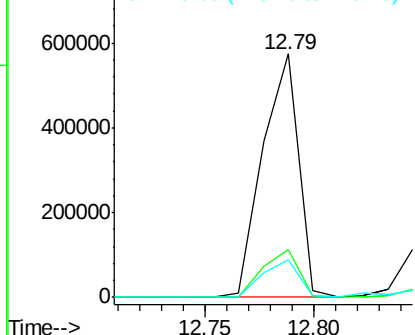
#70
Phenanthrene
Concen: 46.63 ng
RT: 12.79 min Scan# 1015
Delta R.T. -0.00 min
Lab File: BF079318.D
Acq: 18 May 2015 22:12

Instrument :
BNA_F
ClientSampleId :
WC-08-D1DL

Tot Ion:178 Resp: 665062
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.4 12.2 18.4

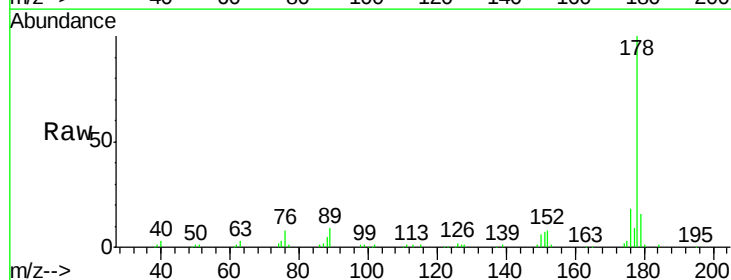


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

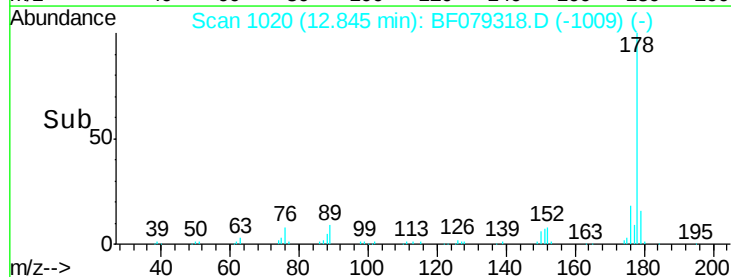
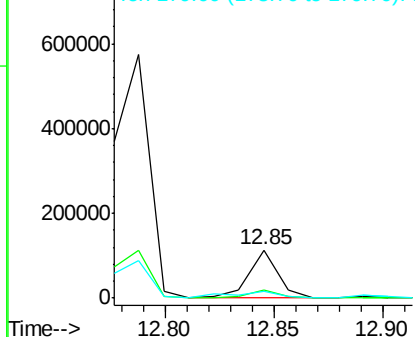


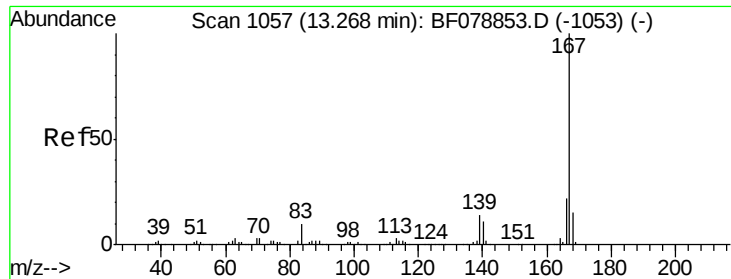
#71
Anthracene
Concen: 7.51 ng
RT: 12.85 min Scan# 1020
Delta R.T. -0.00 min
Lab File: BF079318.D
Acq: 18 May 2015 22:12

Tgt Ion:178 Resp: 105041
Ion Ratio Lower Upper
178 100
176 18.1 15.3 22.9
179 15.6 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: 5.16 ng

RT: 13.05 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

Instrument :

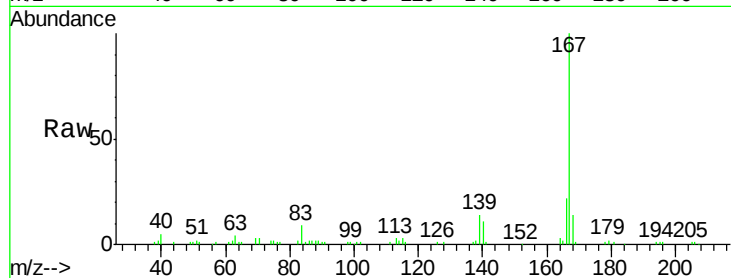
BNA_F

ClientSampleId :

WC-08-D1DL

Tot Ion:167 Resp: 68799

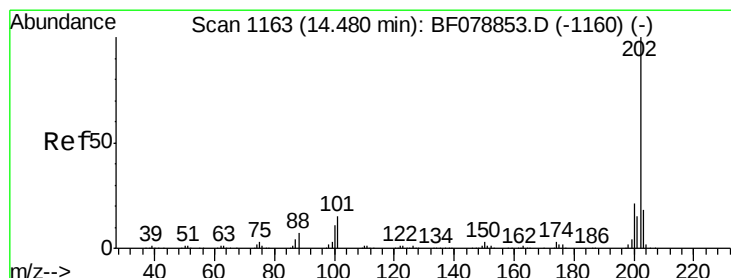
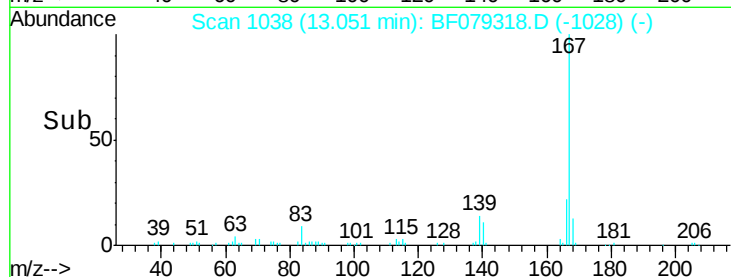
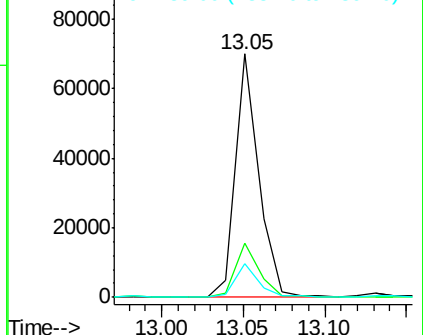
Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.5	26.3
139	13.6	11.0	16.4



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: 52.03 ng

RT: 14.26 min Scan# 1144

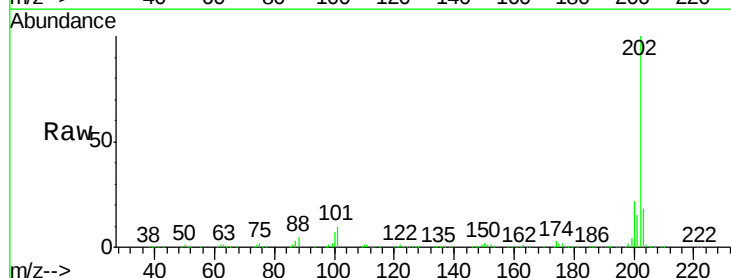
Delta R.T. -0.00 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

Tgt Ion:202 Resp: 773208

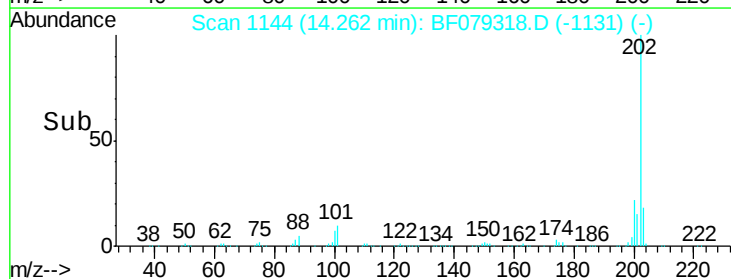
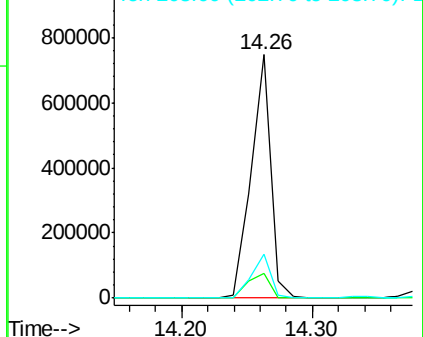
Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	34.7
203	18.0	0.0	37.9

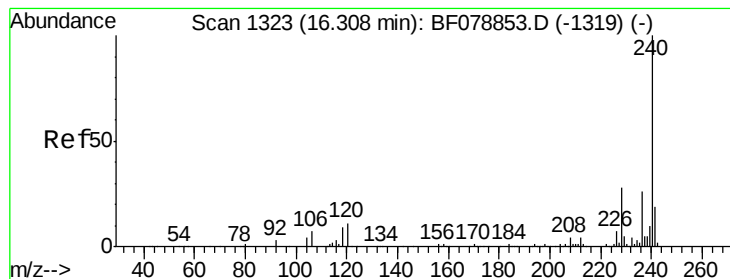


Abundance Ion 202.00 (201.70 to 202.70): E

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: 16.06 min Scan# 1301

Delta R.T. -0.00 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

Instrument :

BNA_F

ClientSampleId :

WC-08-D1DL

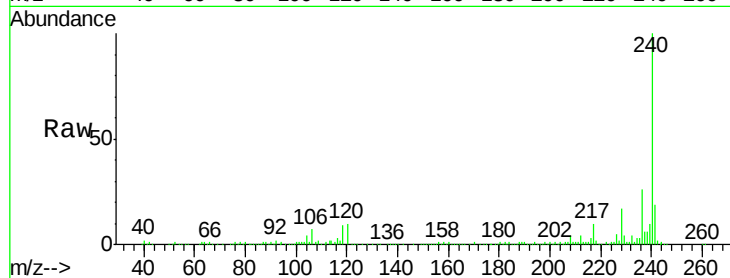
Tot Ion:240 Resp: 262083

Ion Ratio Lower Upper

240 100

120 10.4 8.6 12.8

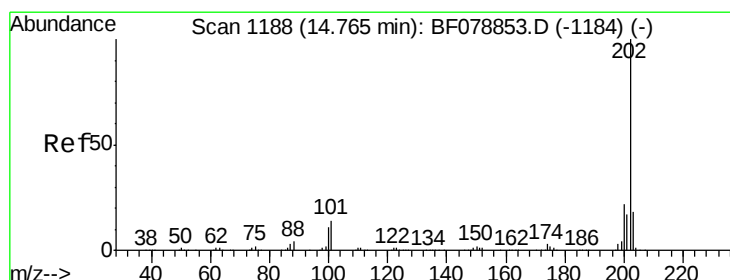
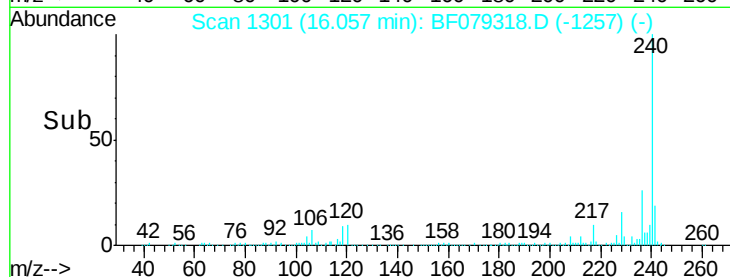
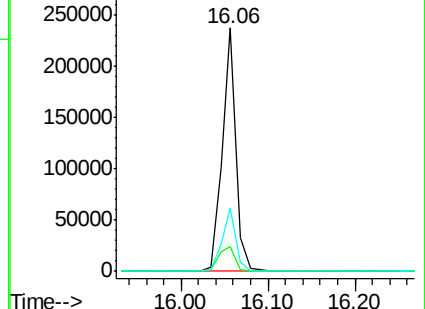
236 26.0 21.0 31.6



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: 45.61 ng

RT: 14.54 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

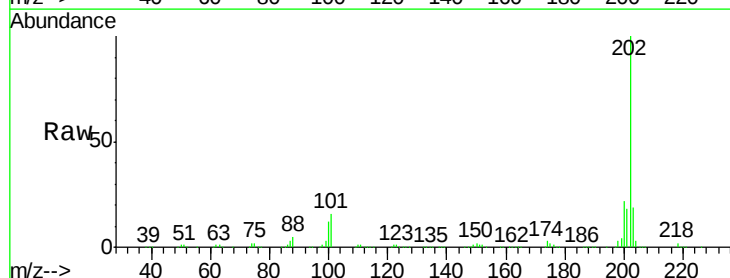
Tgt Ion:202 Resp: 688749

Ion Ratio Lower Upper

202 100

200 22.0 17.5 26.3

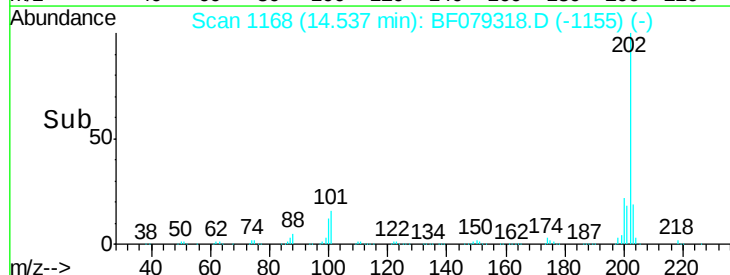
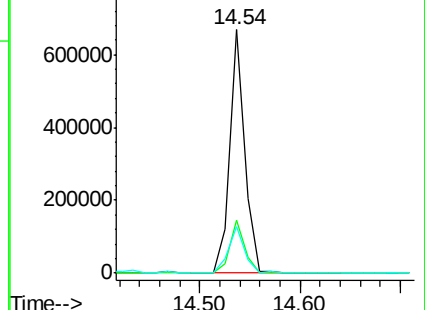
203 19.1 14.7 22.1

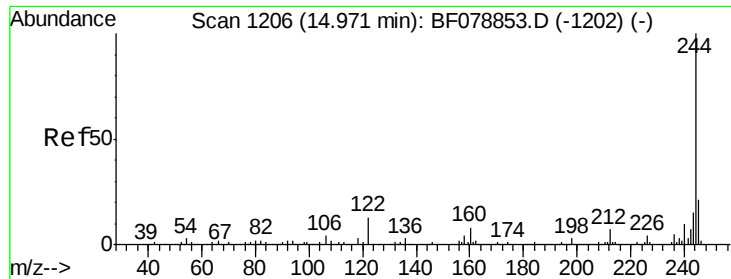


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

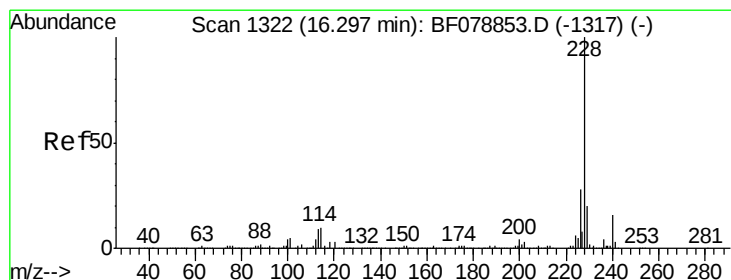
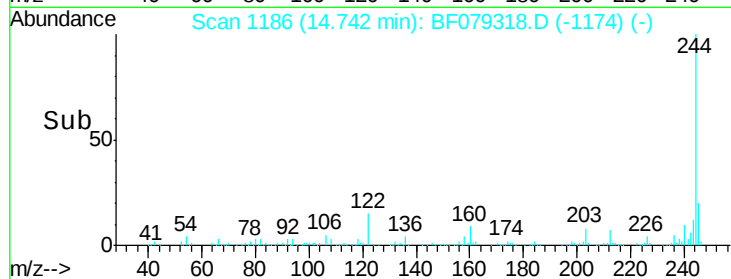
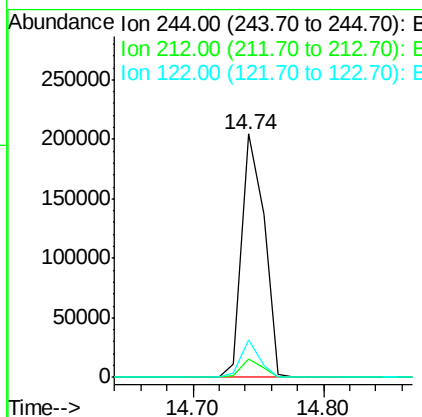
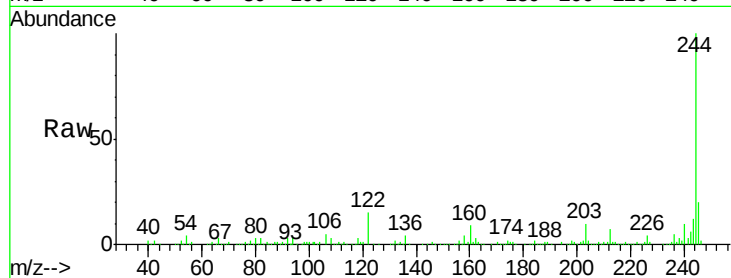




#78
 Terphenyl-d14
 Concen: 22.40 ng
 RT: 14.74 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

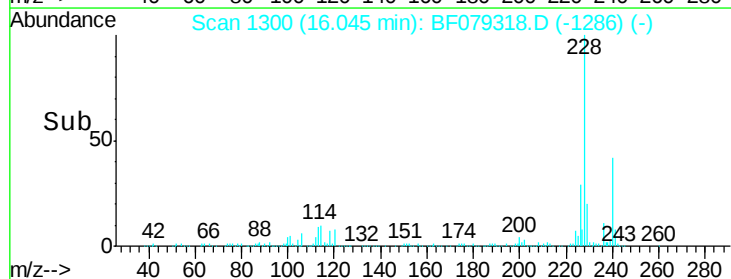
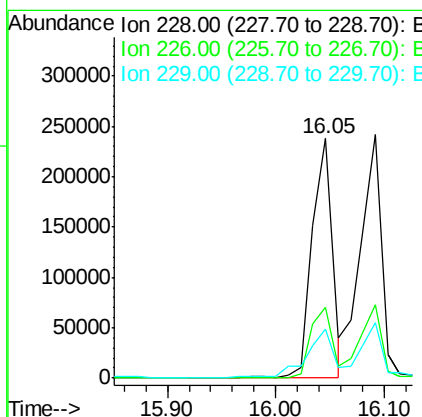
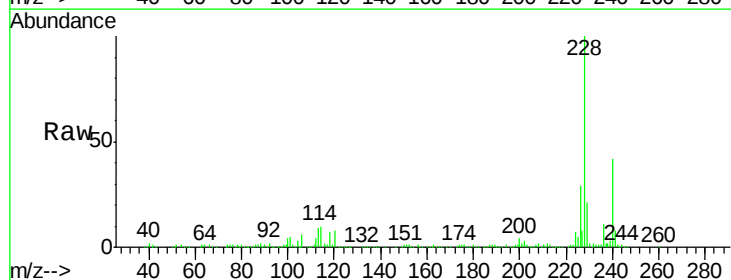
Instrument :
 BNA_F
 ClientSampleId :
 WC-08-D1DL

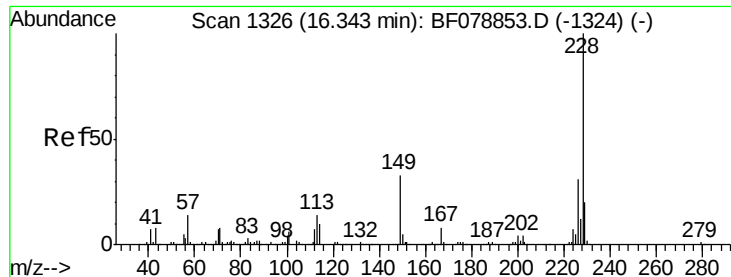
Tot Ion:244 Resp: 245251
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.6 8.4
 122 15.2 10.5 15.7



#80
 Benzo(a)anthracene
 Concen: 21.41 ng
 RT: 16.05 min Scan# 1300
 Delta R.T. -0.00 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

Tgt Ion:228 Resp: 307289
 Ion Ratio Lower Upper
 228 100
 226 29.4 22.3 33.5
 229 20.6 16.1 24.1

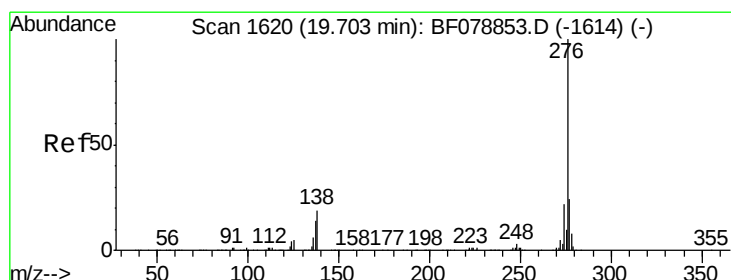
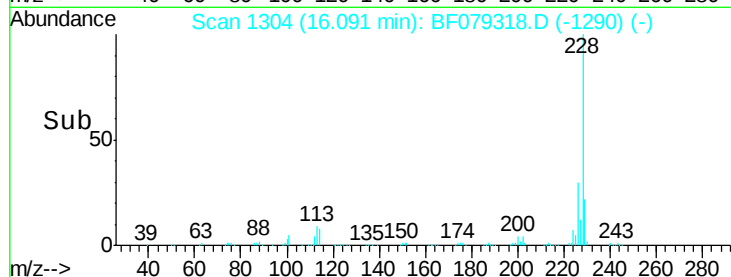
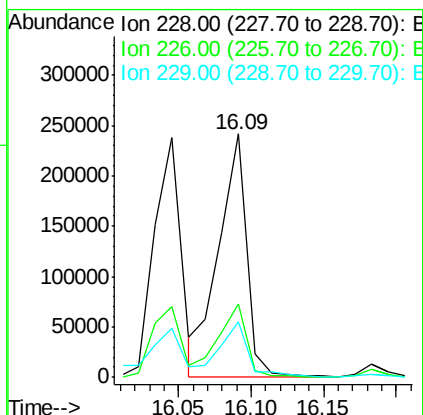
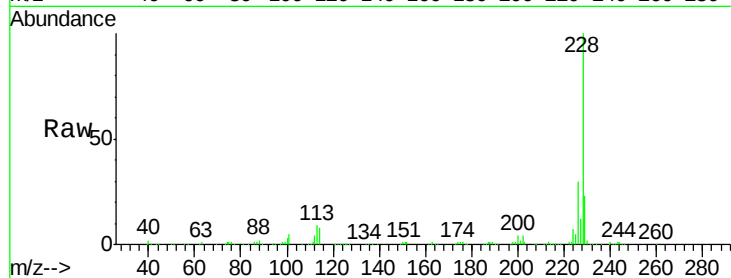




#82
 Chrysene
 Concen: 23.27 ng
 RT: 16.09 min Scan# 1304
 Delta R.T. -0.00 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

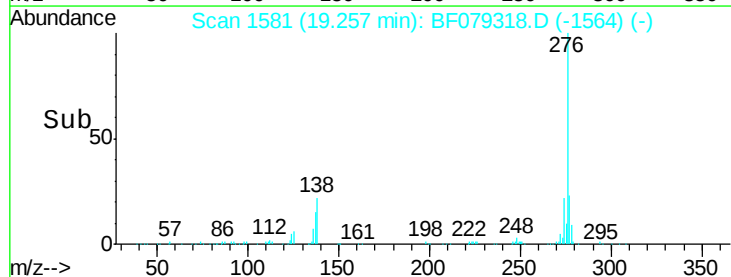
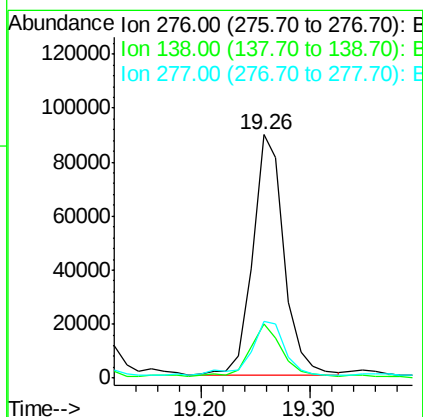
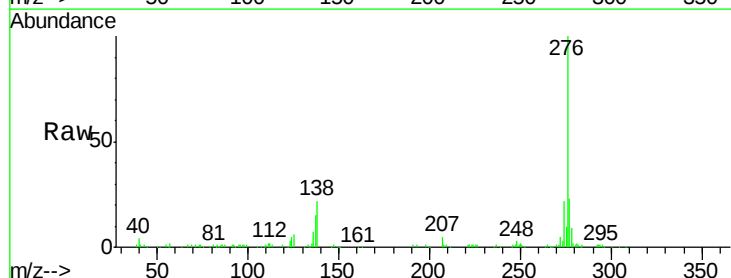
Instrument :
 BNA_F
 ClientSampleId :
 WC-08-D1DL

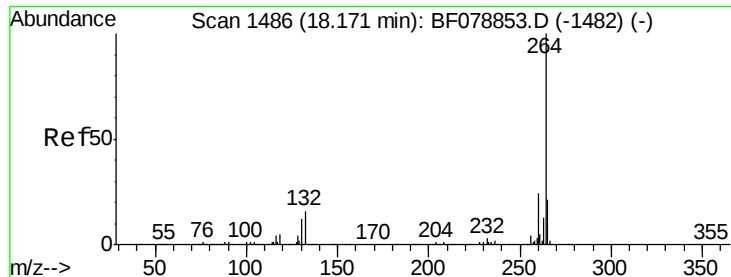
Tot Ion:228 Resp: 321174
 Ion Ratio Lower Upper
 228 100
 226 30.3 24.8 37.2
 229 22.6 16.1 24.1



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.10 ng
 RT: 19.26 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: BF079318.D
 Acq: 18 May 2015 22:12

Tgt Ion:276 Resp: 177680
 Ion Ratio Lower Upper
 276 100
 138 22.3 21.1 31.7
 277 25.3 19.9 29.9

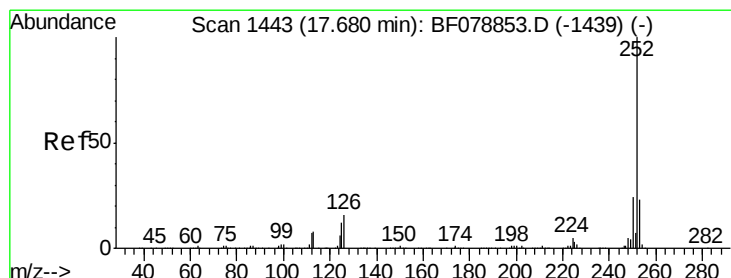
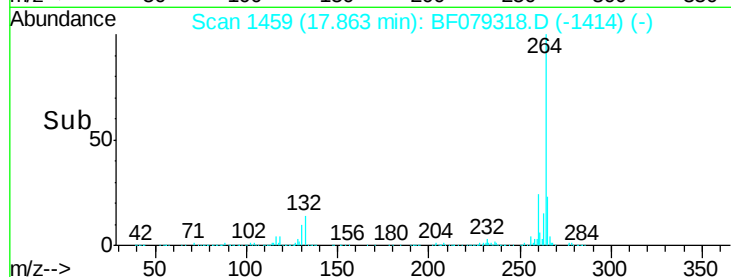
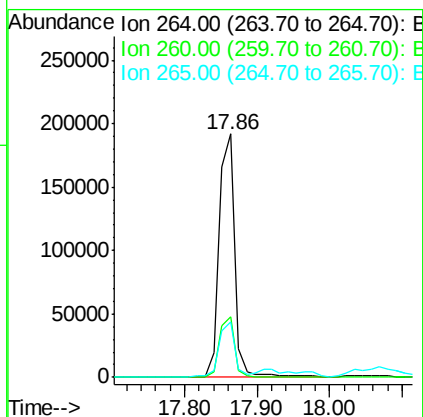
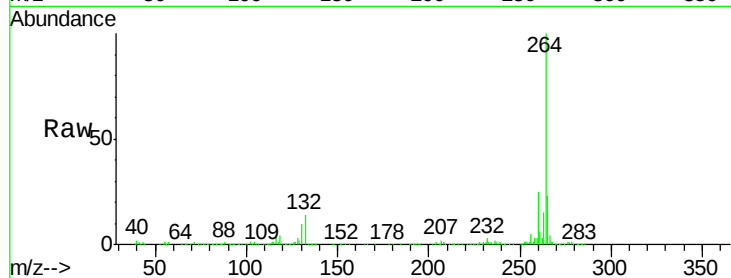




#86
Pervlene-d12
Concen: 20.00 ng
RT: 17.86 min Scan# 1459
Delta R.T. 0.01 min
Lab File: BF079318.D
Acq: 18 May 2015 22:12

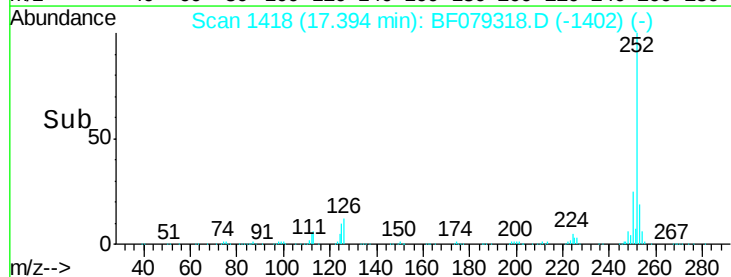
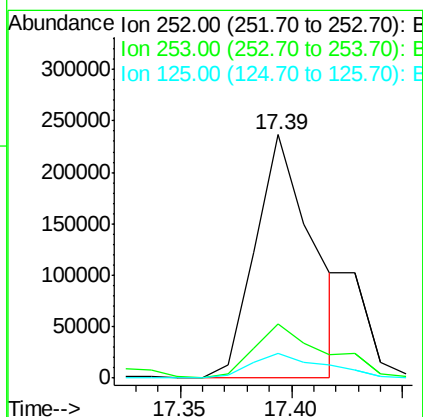
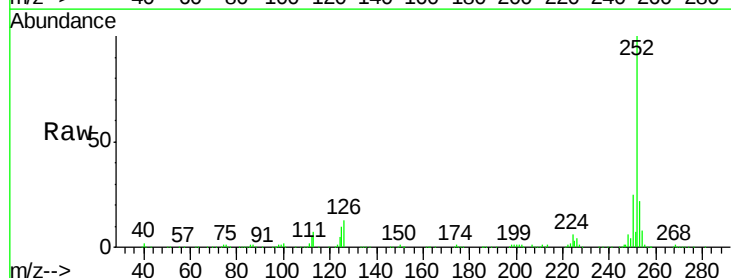
Instrument :
BNA_F
ClientSampleId :
WC-08-D1DL

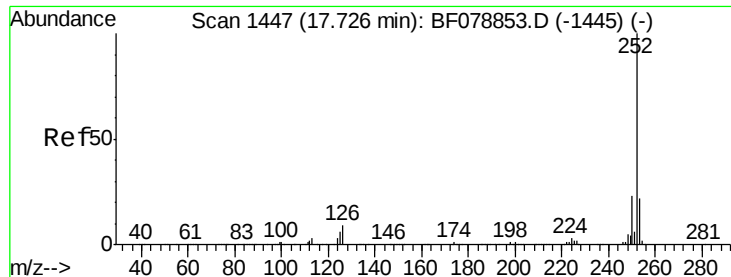
Tot Ion:264 Resp: 287713
Ion Ratio Lower Upper
264 100
260 24.7 19.2 28.8
265 22.6 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 27.20 ng m
RT: 17.39 min Scan# 1418
Delta R.T. -0.00 min
Lab File: BF079318.D
Acq: 18 May 2015 22:12

Tgt Ion:252 Resp: 428402
Ion Ratio Lower Upper
252 100
253 22.3 18.1 27.1
125 10.4 9.4 14.2

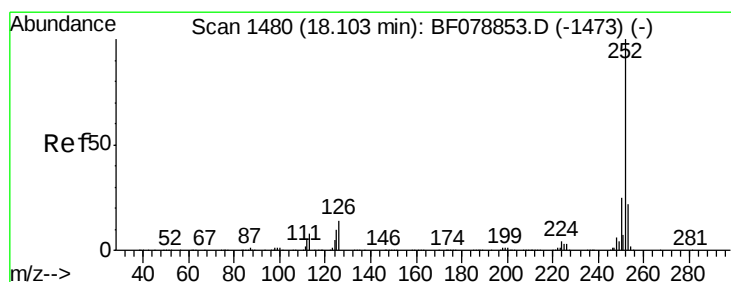
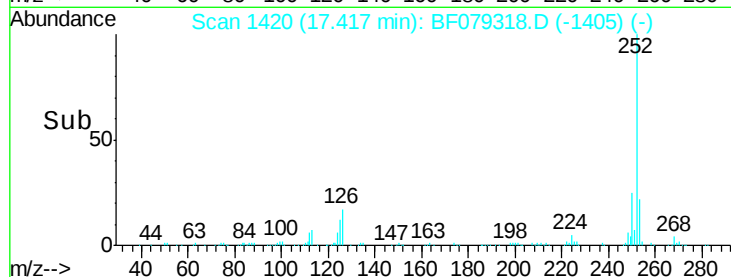
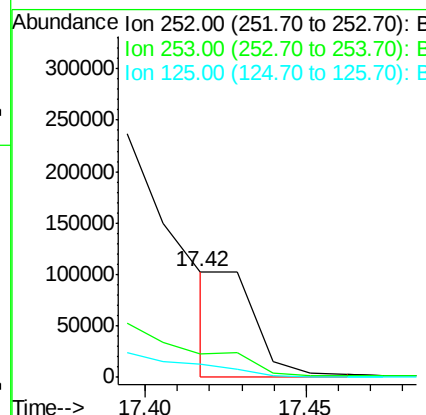
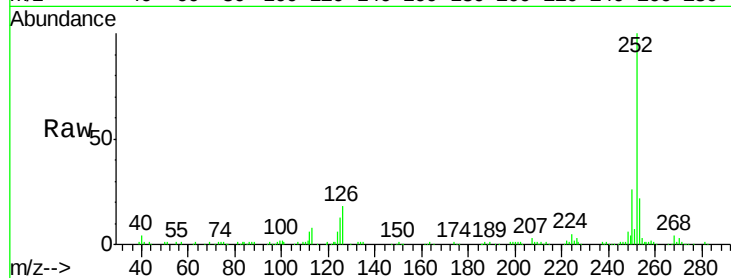




#88
Benzo(k)fluoranthene
Concen: 5.60 ng m
RT: 17.42 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BF079318.D
Acq: 18 May 2015 22:12

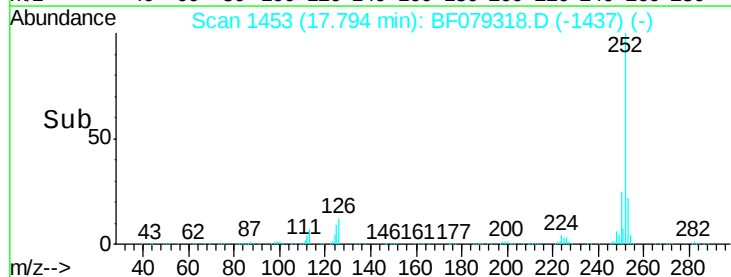
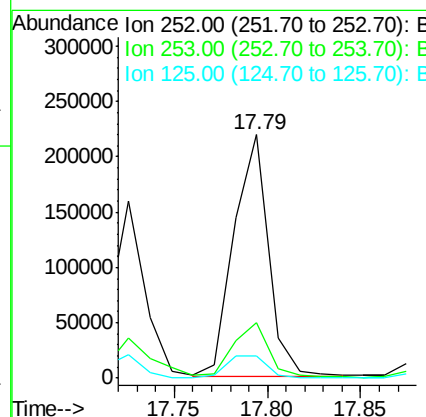
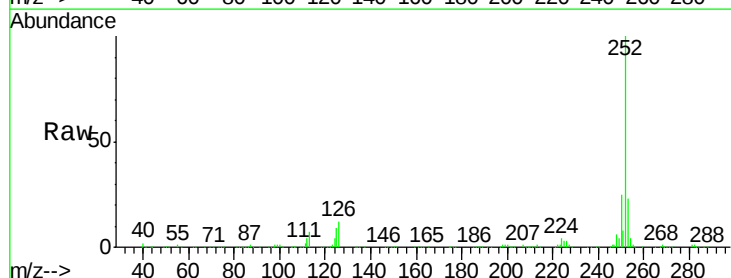
Instrument :
BNA_F
ClientSampleId :
WC-08-D1DL

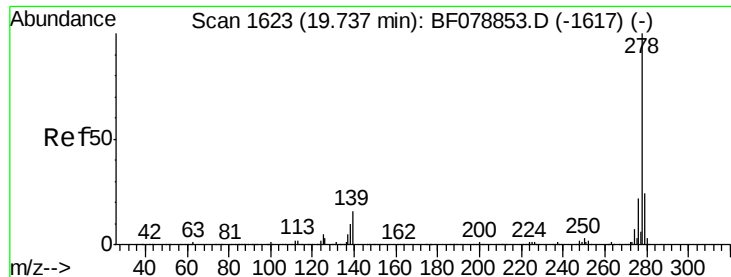
Tot Ion:252 Resp: 85376
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.0
125 12.6 6.1 9.1#



#89
Benzo(a)pyrene
Concen: 19.60 ng
RT: 17.79 min Scan# 1453
Delta R.T. -0.00 min
Lab File: BF079318.D
Acq: 18 May 2015 22:12

Tgt Ion:252 Resp: 284253
Ion Ratio Lower Upper
252 100
253 22.8 18.0 27.0
125 9.0 8.2 12.2





#90

Dibenzo(a,h)anthracene

Concen: 2.64 ng

RT: 19.28 min Scan# 1583

Delta R.T. -0.02 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

Instrument :

BNA_F

ClientSampleId :

WC-08-D1DL

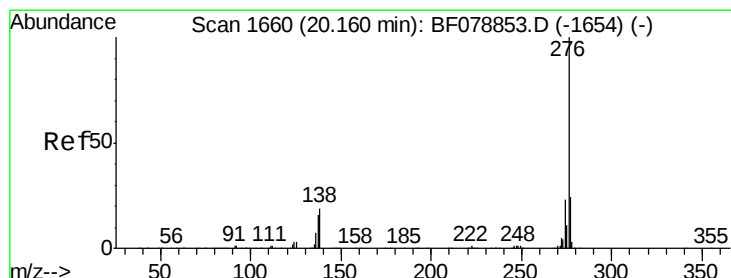
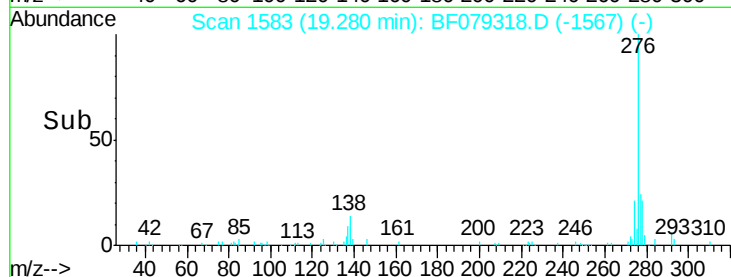
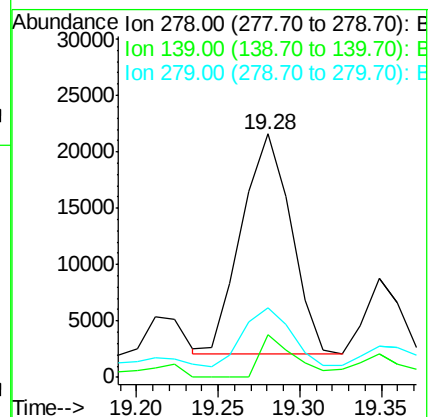
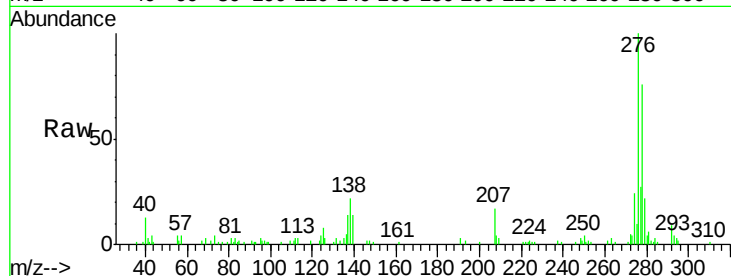
Tot Ion:278 Resp: 40760

Ion Ratio Lower Upper

278 100

139 17.7 13.1 19.7

279 28.5 19.1 28.7



#91

Benzo(g,h,i)perylene

Concen: 11.51 ng

RT: 19.67 min Scan# 1617

Delta R.T. -0.02 min

Lab File: BF079318.D

Acq: 18 May 2015 22:12

Tgt Ion:276 Resp: 177733

Ion Ratio Lower Upper

276 100

277 23.5 18.8 28.2

138 24.0 15.2 22.8#

