

Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
 Data File : BF083088.D
 Acq On : 20 Nov 2015 18:44
 Operator : UM/IZ
 Sample : G4426-08DL 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-8DL

Quant Time: Nov 20 23:53:50 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 20 01:33:39 2015
 Response via : Initial Calibration

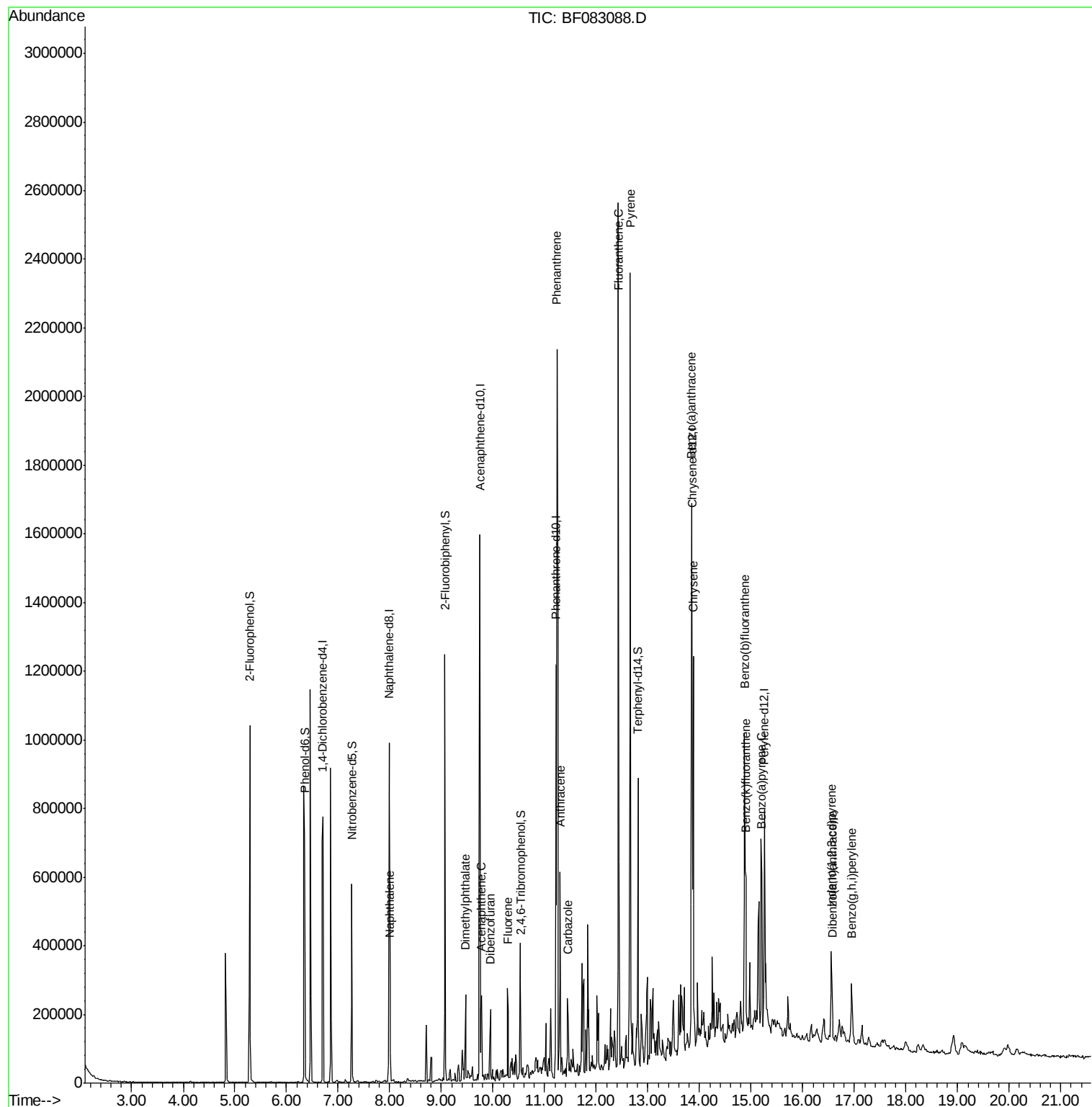
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	167561	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	615941	20.00	ng	-0.01
38) Acenaphthene-d10	9.74	164	311795	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	459510	20.00	ng	0.00
75) Chrysene-d12	13.86	240	400989	20.00	ng	0.00
86) Perylene-d12	15.25	264	347360	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	283908	26.32	ng	0.00
7) Phenol-d6	6.35	99	375762	26.45	ng	0.00
23) Nitrobenzene-d5	7.26	82	202662	15.06	ng	-0.01
41) 2,4,6-Tribromophenol	10.53	330	41378	12.50	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	351904	15.20	ng	-0.01
78) Terphenyl-d14	12.81	244	206897	12.18	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.01	128	125638	3.91	ng	99
49) Dimethylphthalate	9.47	163	107239	4.18	ng	96
51) Acenaphthene	9.78	154	78359	3.61	ng	96
54) Dibenzofuran	9.95	168	87186	3.00	ng	91
57) Fluorene	10.28	166	99099	4.23	ng	98
70) Phenanthrene	11.24	178	1042892	37.62	ng	99
71) Anthracene	11.30	178	271078	9.71	ng	97
72) Carbazole	11.45	167	116859	4.79	ng	100
74) Fluoranthene	12.43	202	1019249	35.28	ng	99
77) Pyrene	12.66	202	930217	32.95	ng	99
80) Benzo(a)anthracene	13.85	228	489687m	19.22	ng	
82) Chrysene	13.88	228	452729m	19.38	ng	
85) Indeno(1,2,3-cd)pyrene	16.56	276	157281	8.27	ng	95
87) Benzo(b)fluoranthene	14.88	252	458199m	18.86	ng	
88) Benzo(k)fluoranthene	14.90	252	160782m	8.69	ng	
89) Benzo(a)pyrene	15.21	252	317082m	16.27	ng	
90) Dibenzo(a,h)anthracene	16.57	278	39856m	2.35	ng	
91) Benzo(g,h,i)perylene	16.95	276	131961	7.98	ng	# 93

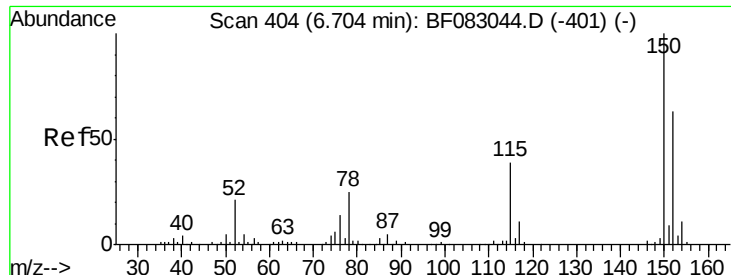
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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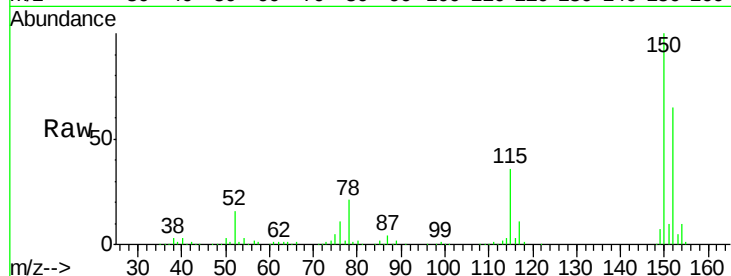


#1

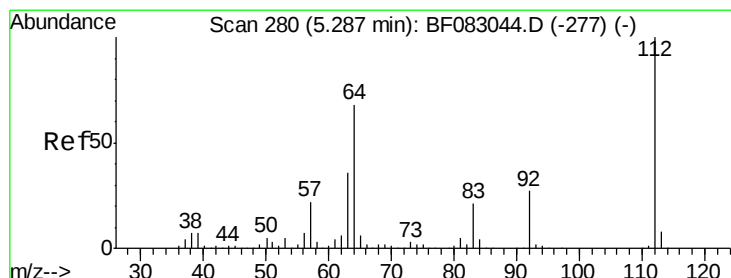
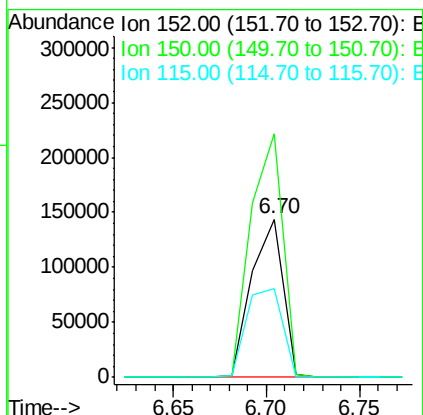
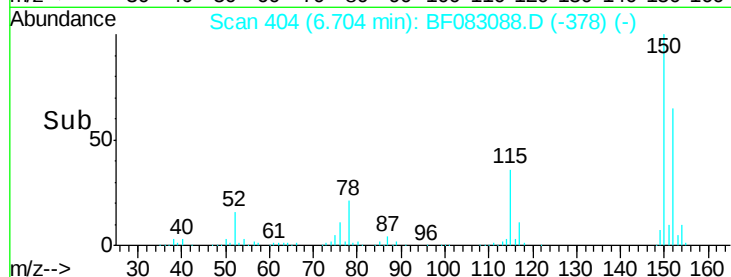
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.70 min Scan# 404
Delta R.T. -0.00 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Instrument :
BNA_F
ClientSampleId :
SB-8DL

Tot Ion:152 Resp: 167561
Ion Ratio Lower Upper
152 100
150 154.0 126.4 189.6
115 55.7 49.0 73.6



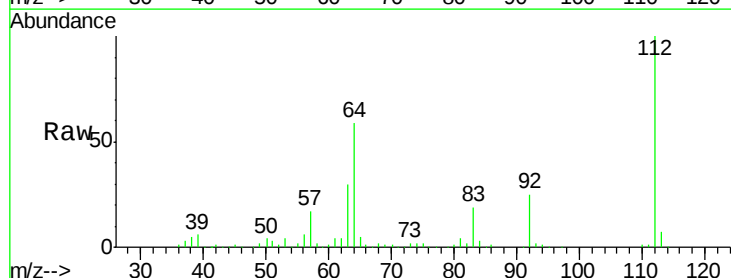
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



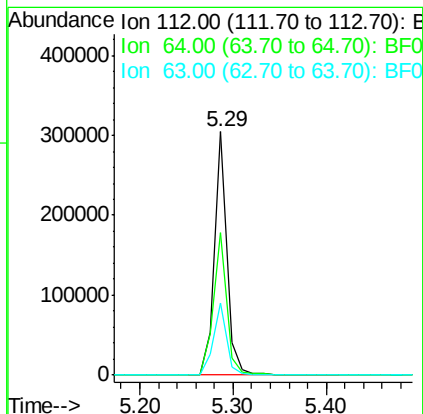
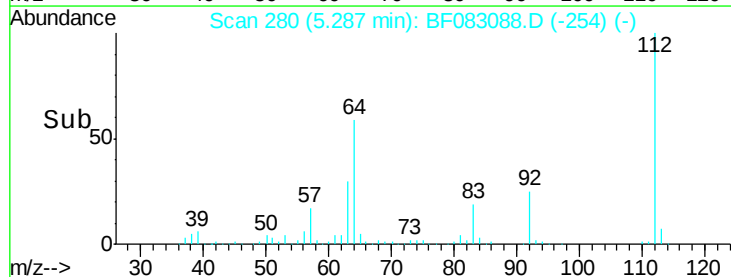
#5

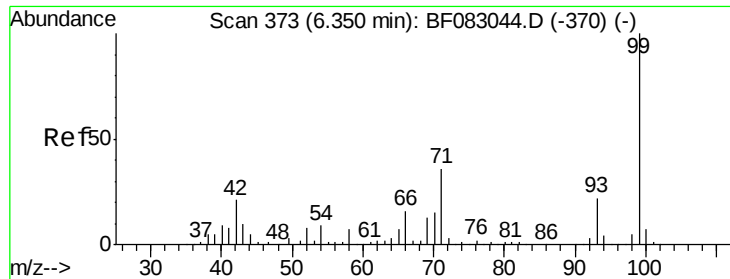
2-Fluorophenol
Concen: 26.32 ng
RT: 5.29 min Scan# 280
Delta R.T. -0.00 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Tgt Ion:112 Resp: 283908
Ion Ratio Lower Upper
112 100
64 58.6 54.8 82.2
63 29.7 29.0 43.4



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: 26.45 ng

RT: 6.35 min Scan# 373

Delta R.T. -0.00 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Instrument :

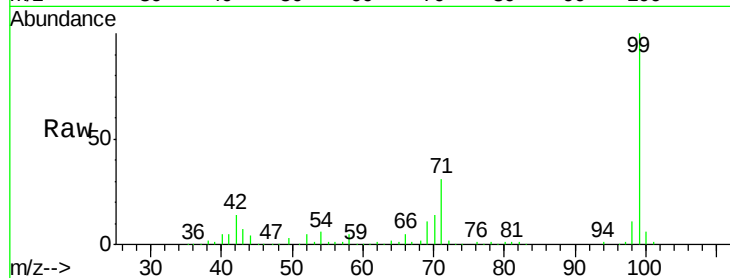
BNA_F

ClientSampleId :

SB-8DL

Tot Ion: 99 Resp: 375762

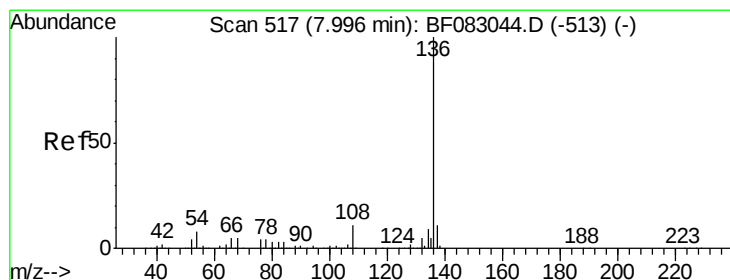
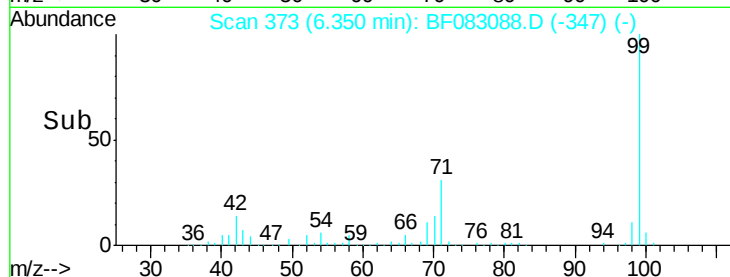
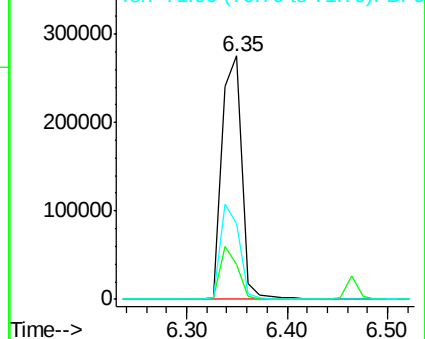
Ion	Ratio	Lower	Upper
99	100		
42	14.1	16.6	25.0#
71	31.1	29.2	43.8



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: 7.98 min Scan# 516

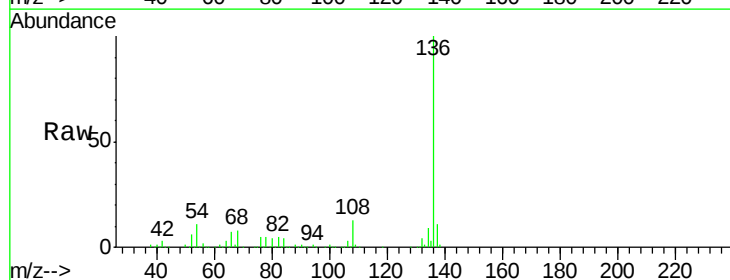
Delta R.T. -0.01 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Tgt Ion: 136 Resp: 615941

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	11.3	6.2	9.2#
68	7.7	4.2	6.2#

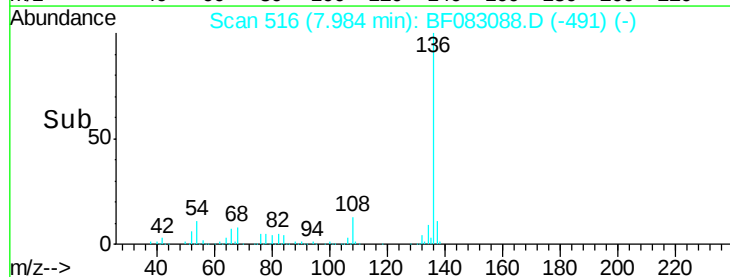
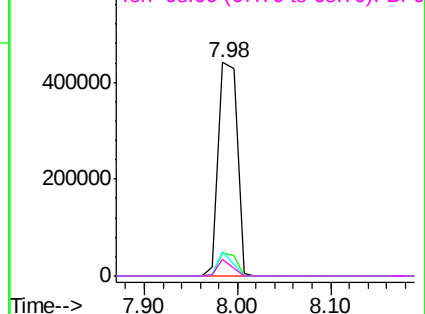


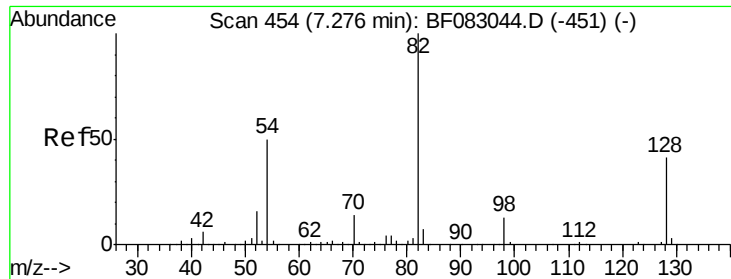
Abundance Ion 136.00 (135.70 to 136.70): E

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

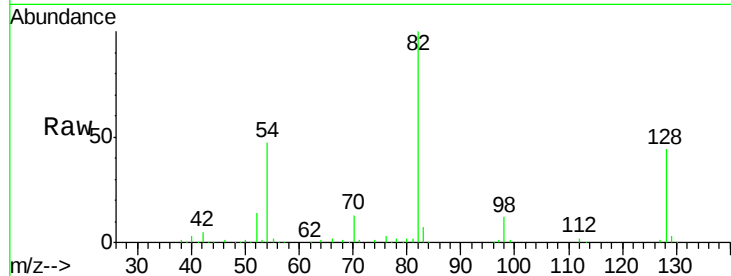




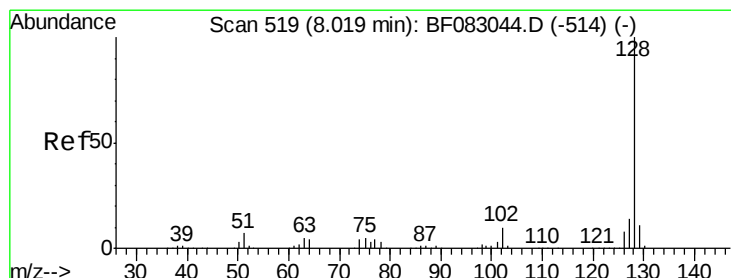
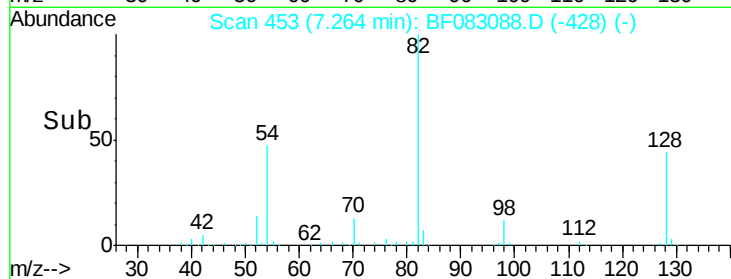
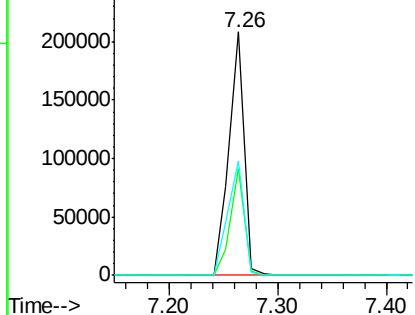
#23
Nitrobenzene-d5
Concen: 15.06 ng
RT: 7.26 min Scan# 453
Delta R.T. -0.01 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Instrument :
BNA_F
ClientSampleID :
SB-8DL

Tot Ion: 82 Resp: 202662
Ion Ratio Lower Upper
82 100
128 43.8 33.1 49.7
54 47.2 39.8 59.6

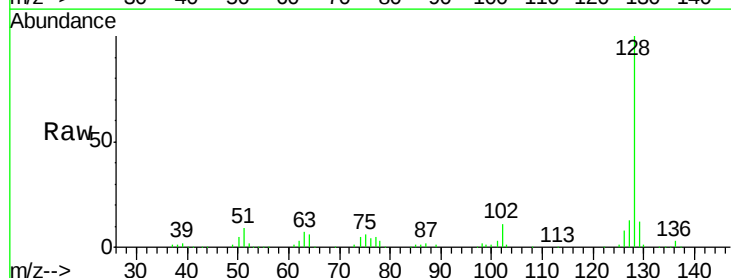


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

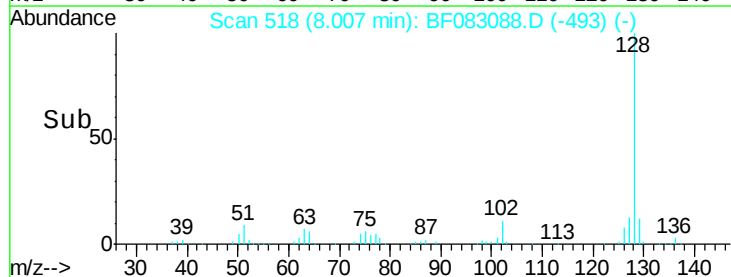
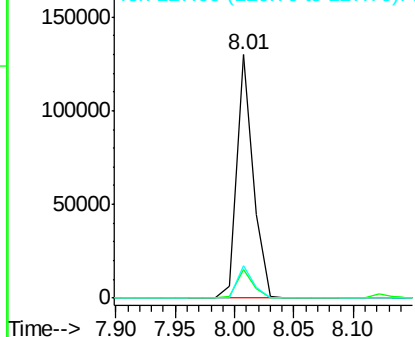


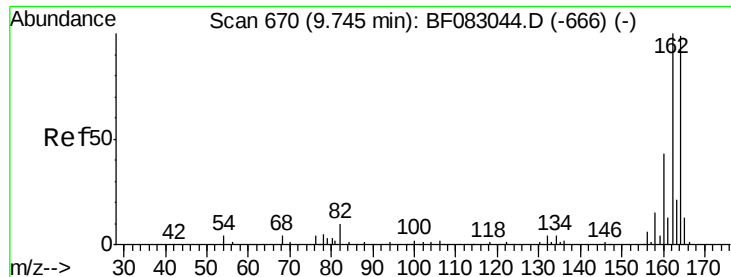
#31
Naphthalene
Concen: 3.91 ng
RT: 8.01 min Scan# 518
Delta R.T. -0.01 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Tgt Ion: 128 Resp: 125638
Ion Ratio Lower Upper
128 100
129 11.8 9.0 13.4
127 13.4 10.9 16.3



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

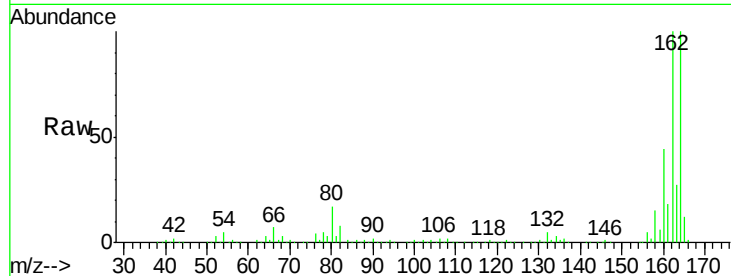




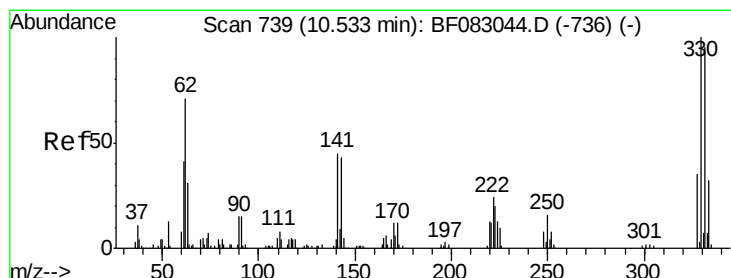
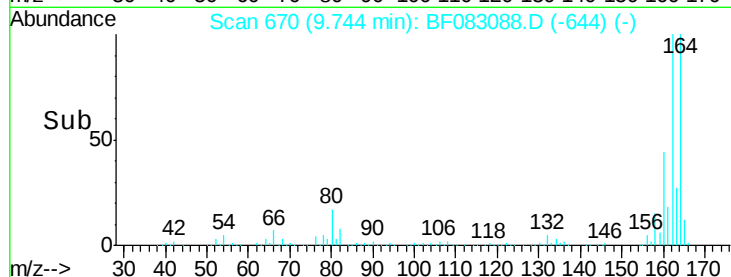
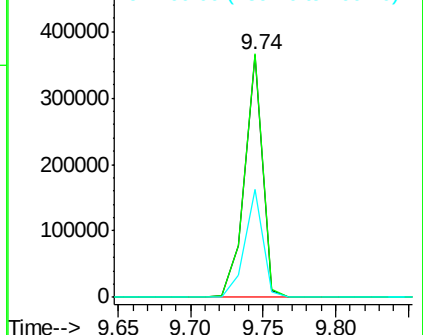
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.74 min Scan# 670
Delta R.T. -0.00 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Instrument :
BNA_F
ClientSampleId :
SB-8DL

Tot Ion:164 Resp: 311795
Ion Ratio Lower Upper
164 100
162 100.4 80.5 120.7
160 44.3 35.0 52.4

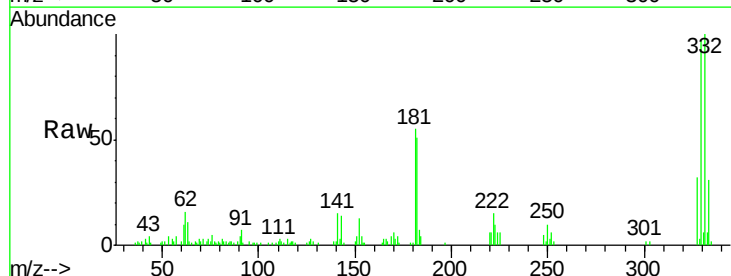


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

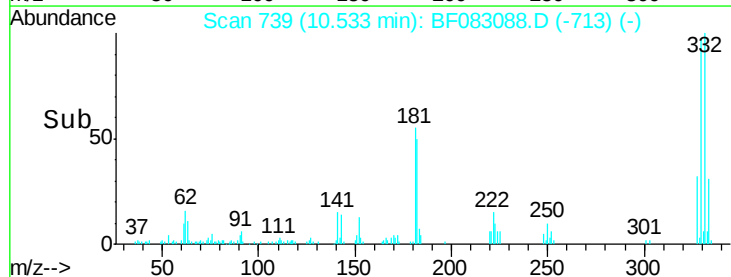
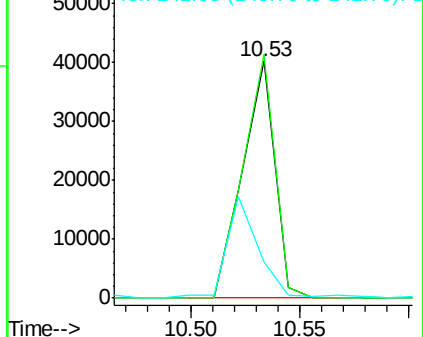


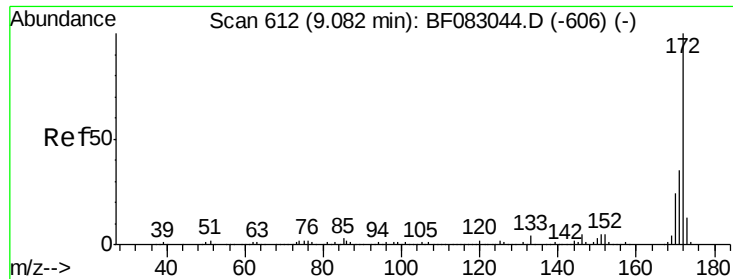
#41
2,4,6-Tribromophenol
Concen: 12.50 ng
RT: 10.53 min Scan# 739
Delta R.T. -0.00 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Tgt Ion:330 Resp: 41378
Ion Ratio Lower Upper
330 100
332 102.2 77.6 116.4
141 43.7 34.6 52.0



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

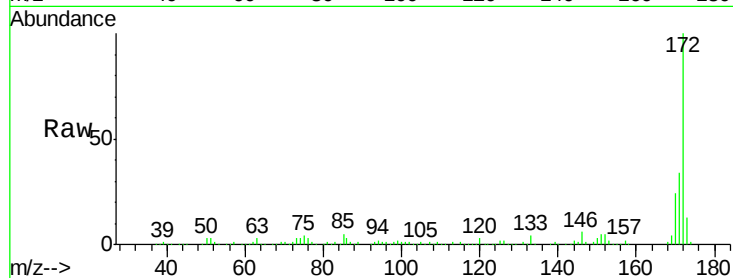




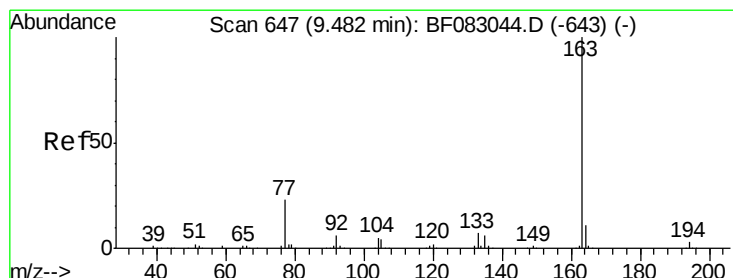
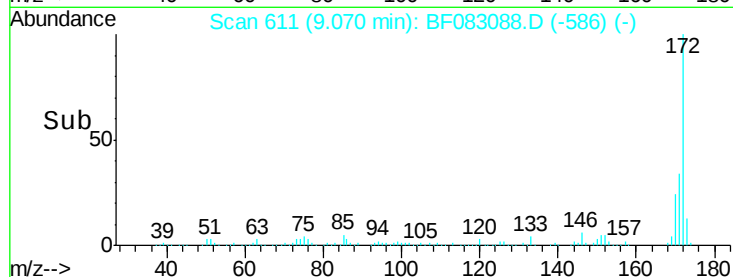
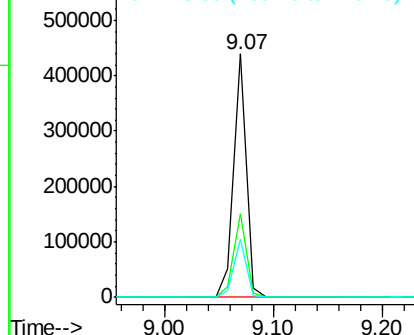
#44
2-Fluorobiphenyl
Concen: 15.20 ng
RT: 9.07 min Scan# 611
Delta R.T. -0.01 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Instrument :
BNA_F
ClientSampleId :
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Tot Ion:172 Resp: 351904
Ion Ratio Lower Upper
172 100
171 34.4 28.2 42.4
170 23.7 19.4 29.0

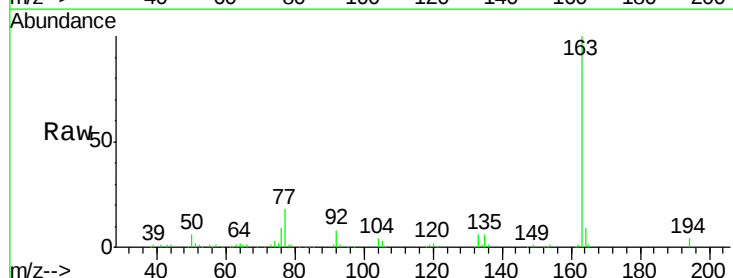


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

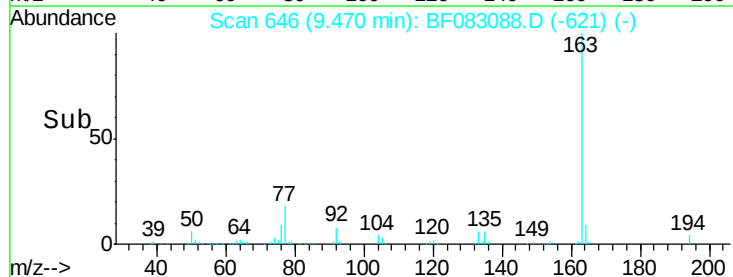
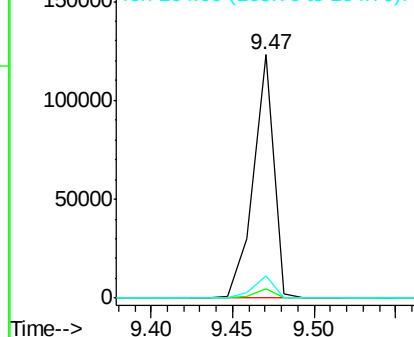


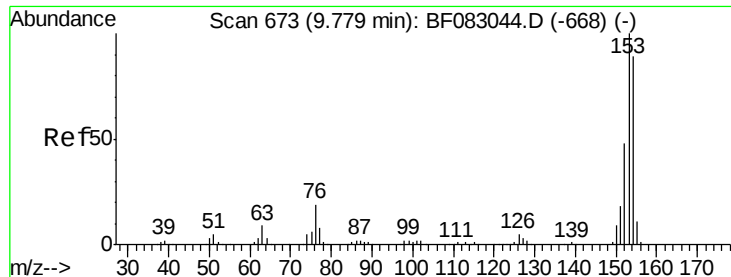
#49
Dimethylphthalate
Concen: 4.18 ng
RT: 9.47 min Scan# 646
Delta R.T. -0.01 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Tgt Ion:163 Resp: 107239
Ion Ratio Lower Upper
163 100
194 4.0 2.7 4.1
164 9.1 8.5 12.7



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: 3.61 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.00 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Instrument :

BNA_F

ClientSampleID :

SB-8DL

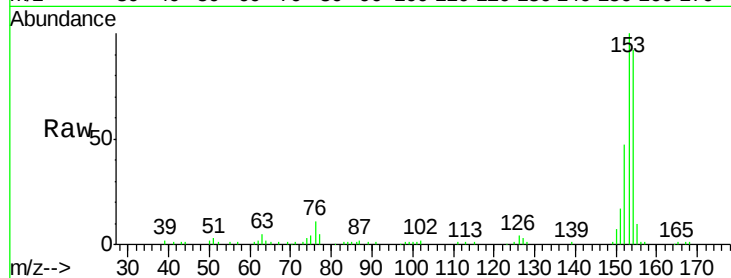
Tot Ion:154 Resp: 78359

Ion Ratio Lower Upper

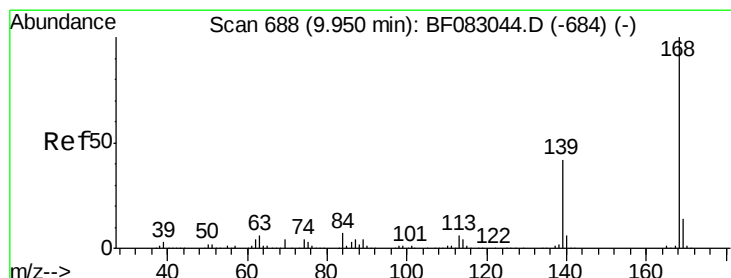
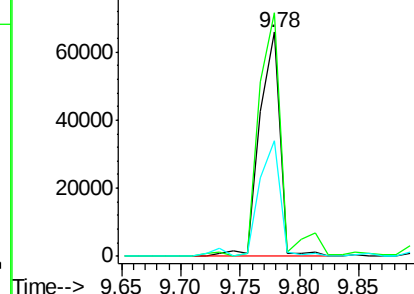
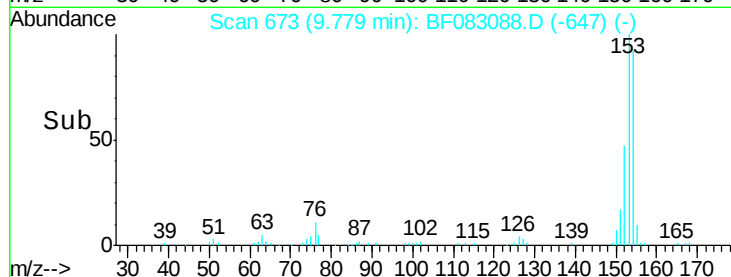
154 100

153 108.7 90.1 135.1

152 51.4 43.3 64.9



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: 3.00 ng

RT: 9.95 min Scan# 688

Delta R.T. -0.00 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

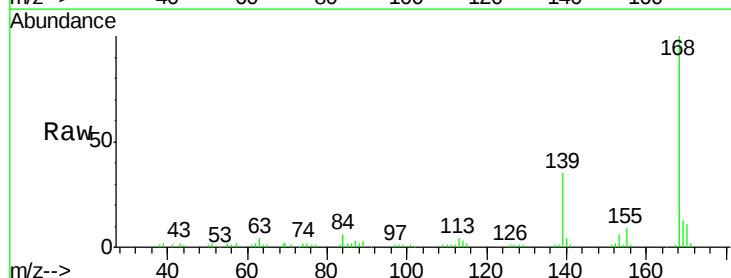
Tgt Ion:168 Resp: 87186

Ion Ratio Lower Upper

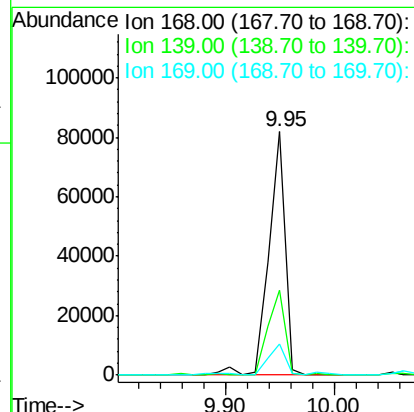
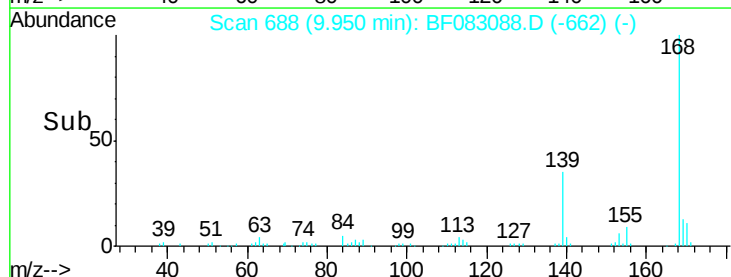
168 100

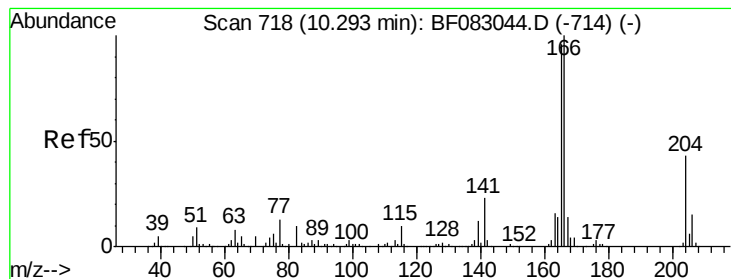
139 34.9 33.5 50.3

169 12.9 11.2 16.8



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: 4.23 ng

RT: 10.28 min Scan# 717

Delta R.T. -0.01 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Instrument :

BNA_F

ClientSampleId :

SB-8DL

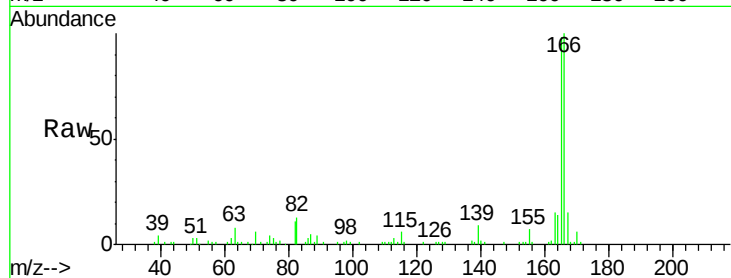
Tot Ion:166 Resp: 99099

Ion Ratio Lower Upper

166 100

165 98.0 77.1 115.7

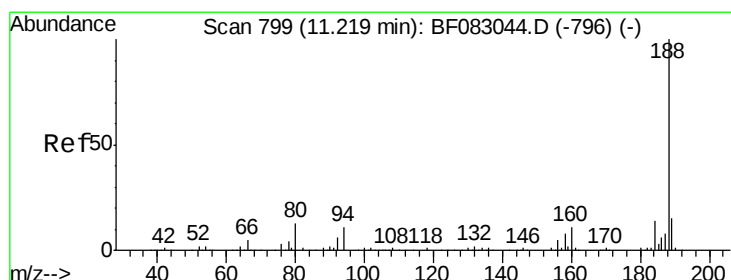
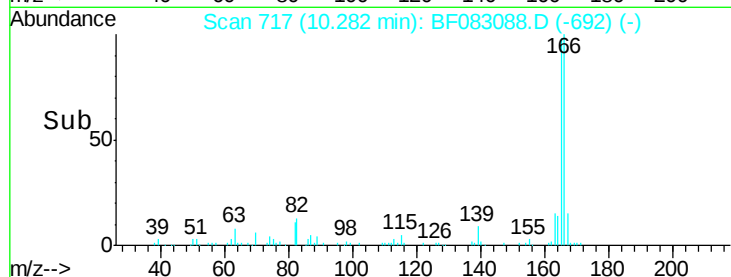
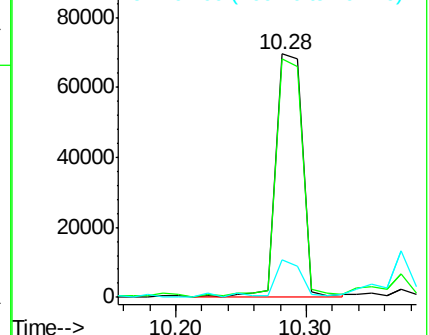
167 15.4 11.0 16.4



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: 11.22 min Scan# 799

Delta R.T. -0.00 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

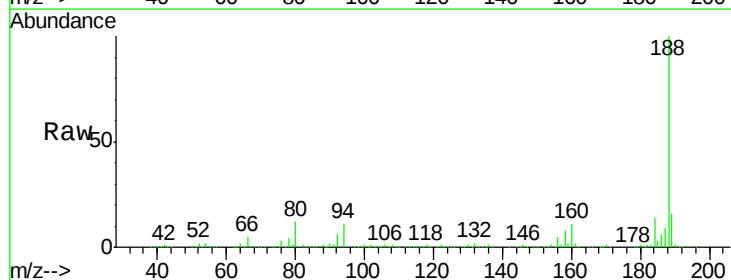
Tgt Ion:188 Resp: 459510

Ion Ratio Lower Upper

188 100

94 10.8 9.0 13.4

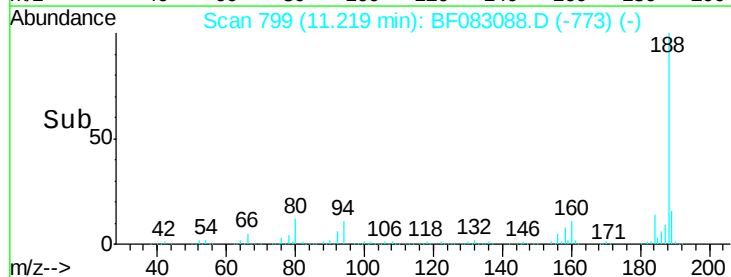
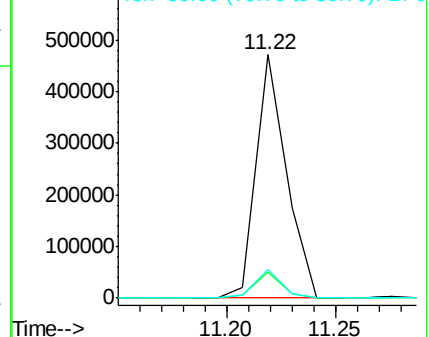
80 11.9 10.2 15.4

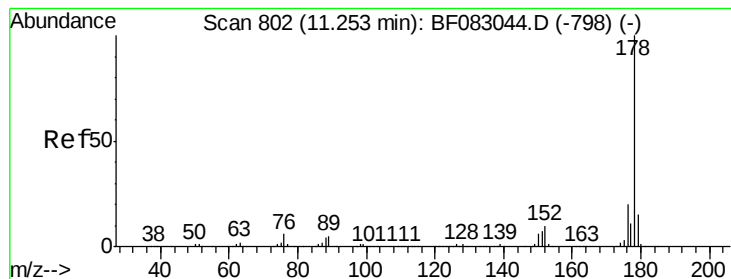


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 37.62 ng

RT: 11.24 min Scan# 801

Delta R.T. -0.01 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Instrument :

BNA_F

ClientSampleId :

SB-8DL

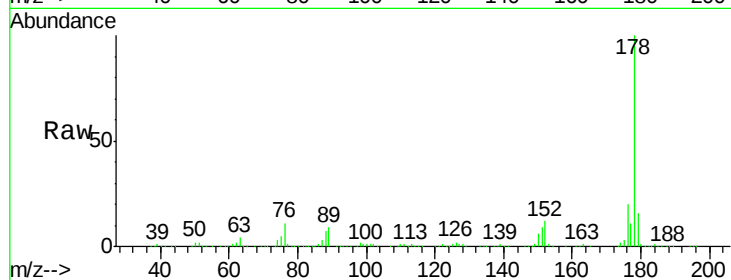
Tot Ion:178 Resp: 1042892

Ion Ratio Lower Upper

178 100

176 20.1 15.6 23.4

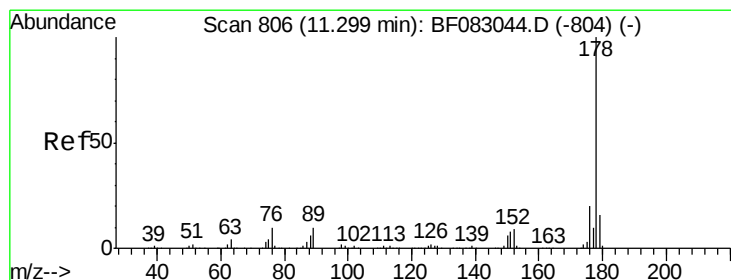
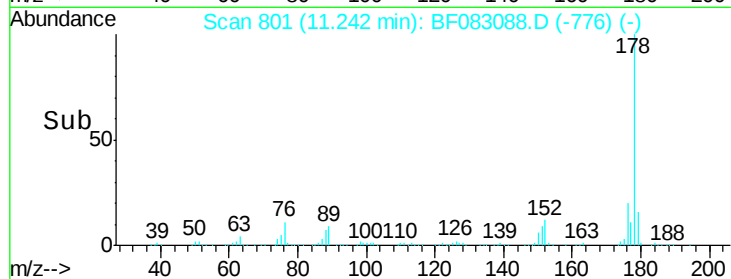
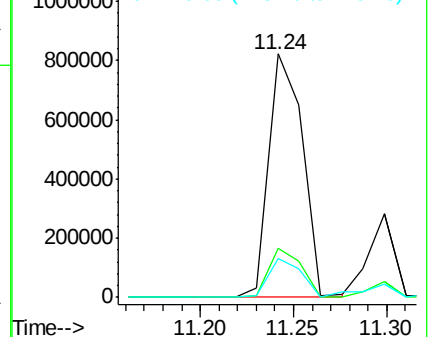
179 16.0 12.3 18.5



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: 9.71 ng

RT: 11.30 min Scan# 806

Delta R.T. -0.00 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

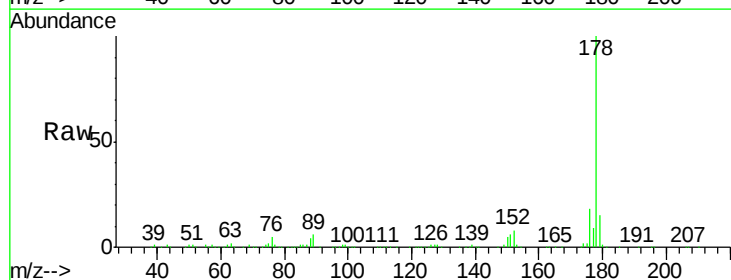
Tgt Ion:178 Resp: 271078

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.6

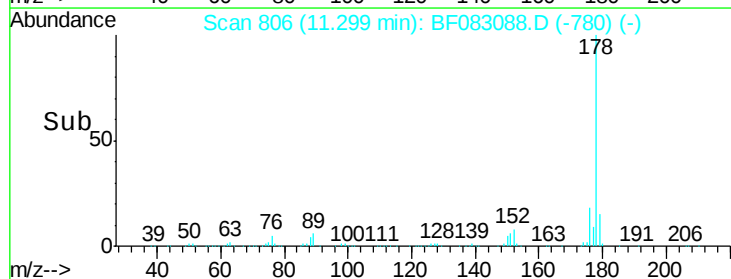
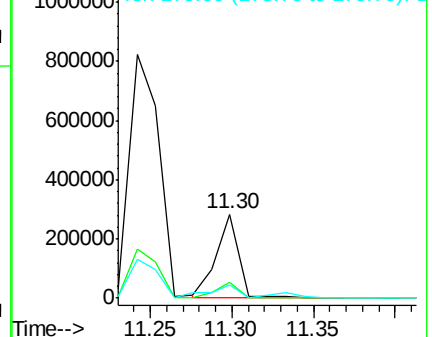
179 15.1 13.1 19.7

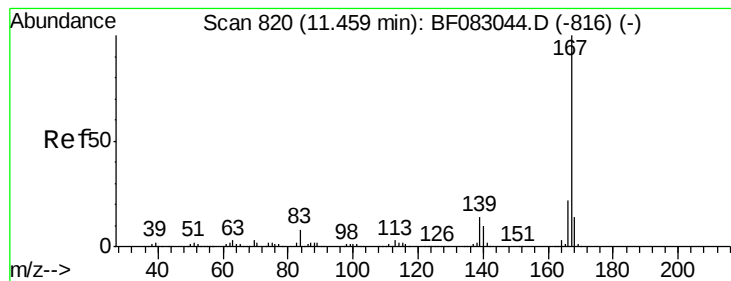


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.79 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.01 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Instrument :

BNA_F

ClientSampleId :

SB-8DL

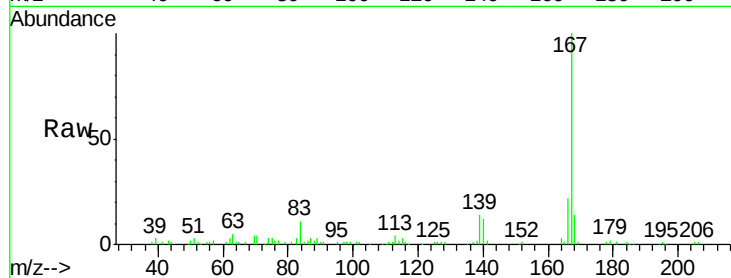
Tot Ion:167 Resp: 116859

Ion Ratio Lower Upper

167 100

166 21.8 17.8 26.6

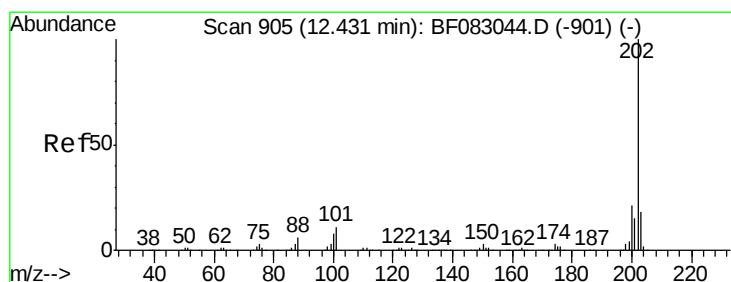
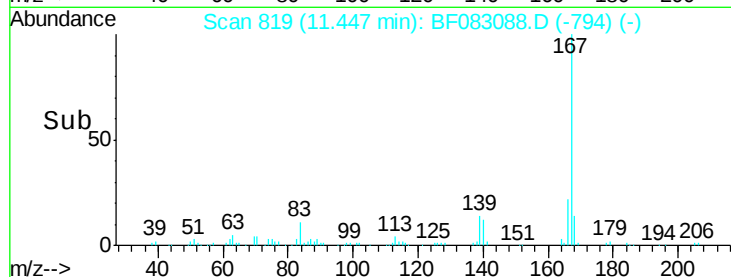
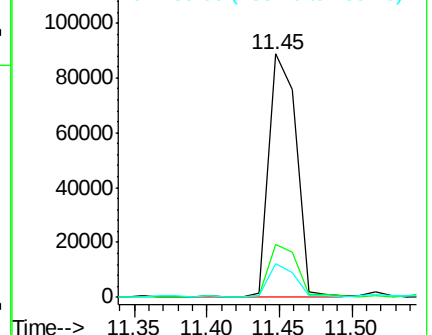
139 13.7 11.0 16.4



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: 35.28 ng

RT: 12.43 min Scan# 905

Delta R.T. -0.00 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

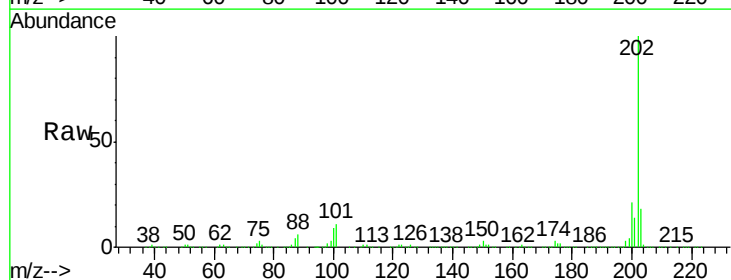
Tgt Ion:202 Resp: 1019249

Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.1

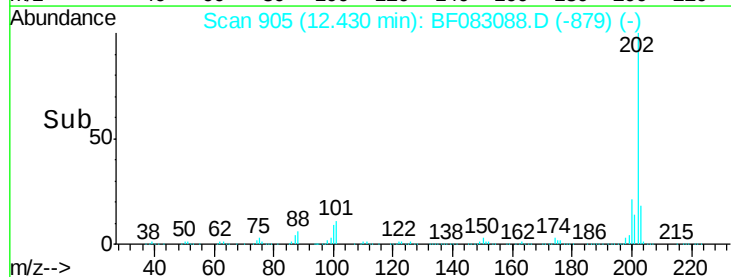
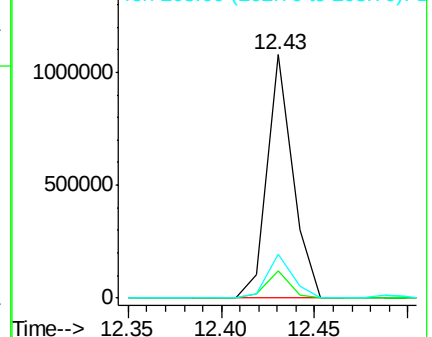
203 18.1 0.0 38.4

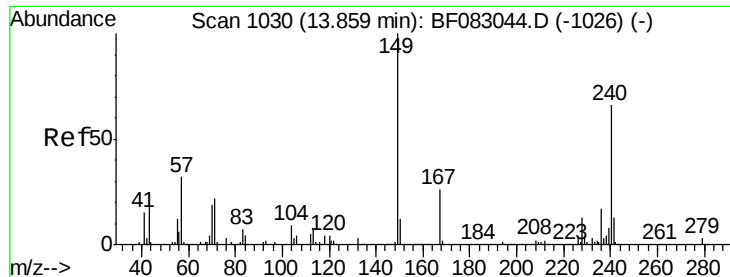


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.86 min Scan# 1030

Delta R.T. -0.00 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Instrument :

BNA_F

ClientSampleID :

SB-8DL

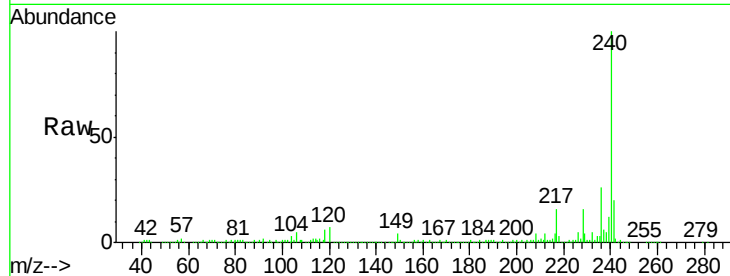
Tot Ion:240 Resp: 400989

Ion Ratio Lower Upper

240 100

120 6.9 5.3 7.9

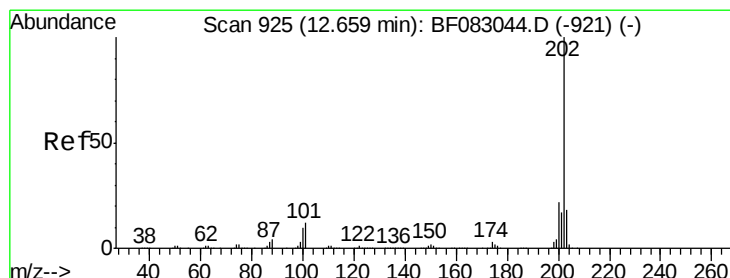
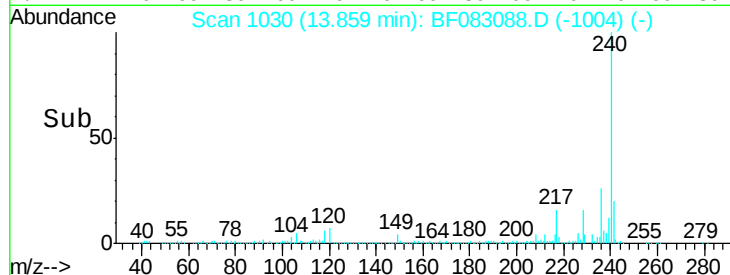
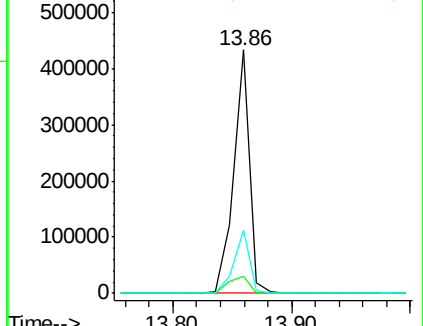
236 26.1 20.4 30.6



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: 32.95 ng

RT: 12.66 min Scan# 925

Delta R.T. -0.00 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

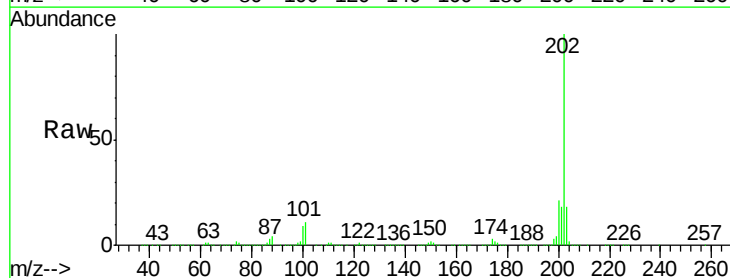
Tgt Ion:202 Resp: 930217

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

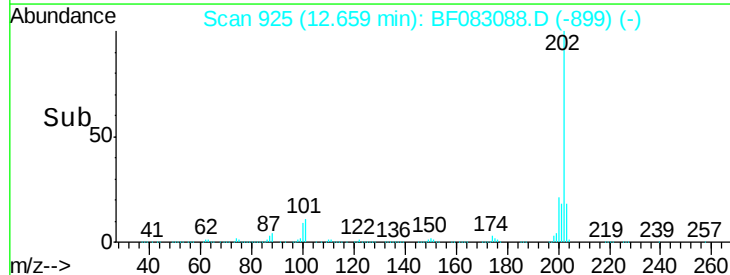
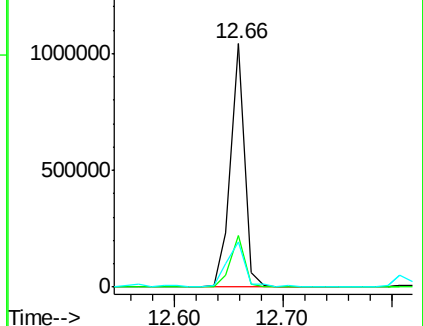
203 18.3 14.6 22.0

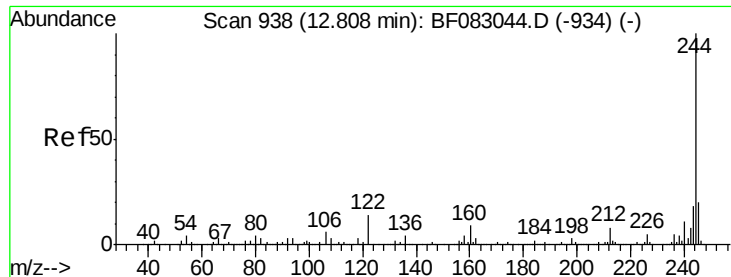


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

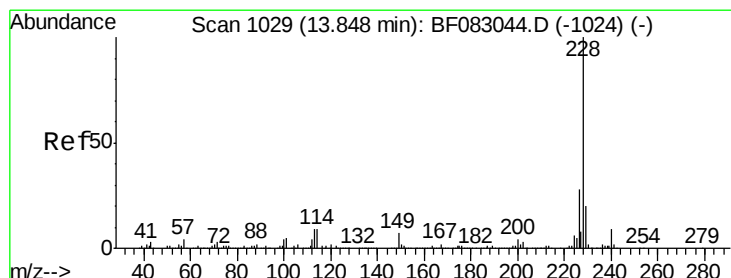
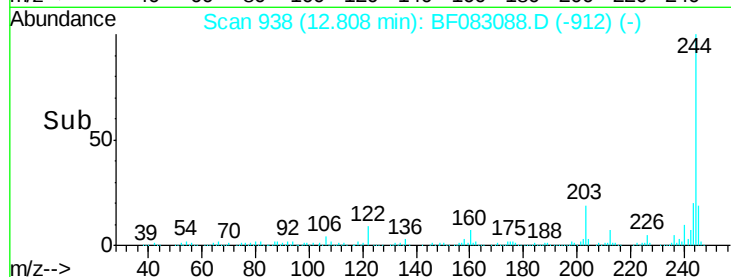
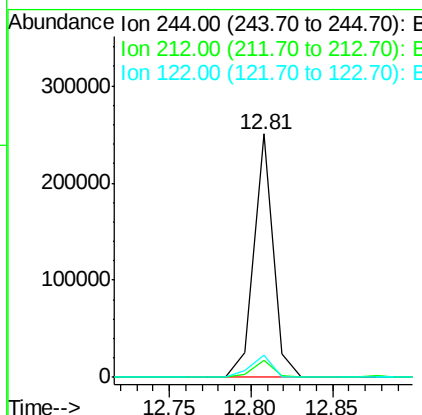
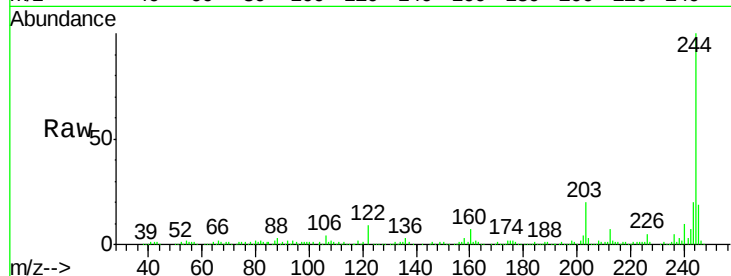




#78
 Terphenyl-d14
 Concen: 12.18 ng
 RT: 12.81 min Scan# 938
 Delta R.T. -0.00 min
 Lab File: BF083088.D
 Acq: 20 Nov 2015 18:44

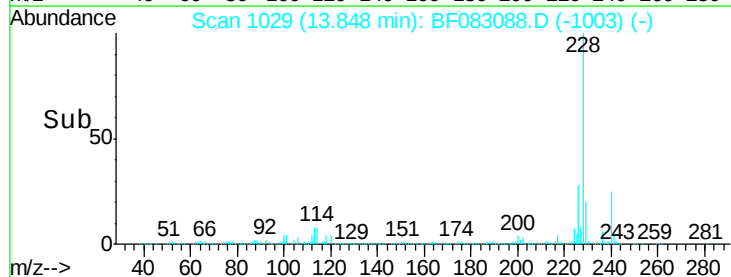
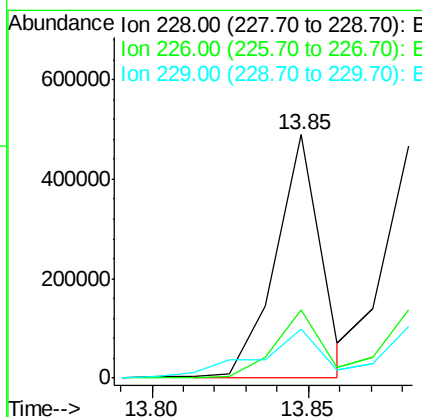
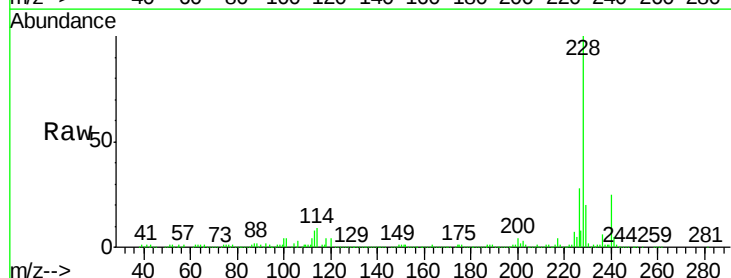
Instrument :
 BNA_F
 ClientSampleId :
 SB-8DL

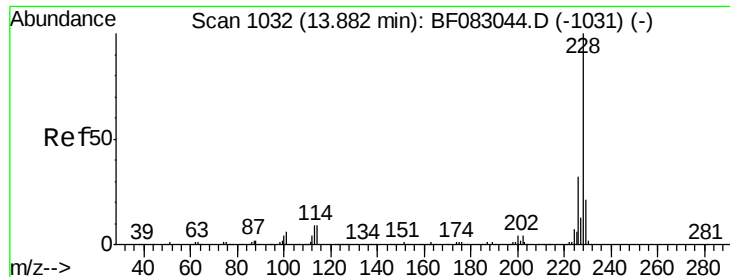
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.4	9.6
122	9.2	10.9	16.3



#80
 Benzo(a)anthracene
 Concen: 19.22 ng m
 RT: 13.85 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: BF083088.D
 Acq: 20 Nov 2015 18:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	34.0
229	20.3	16.1	24.1





#82

Chrysene

Concen: 19.38 ng/mL

RT: 13.88 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Instrument :

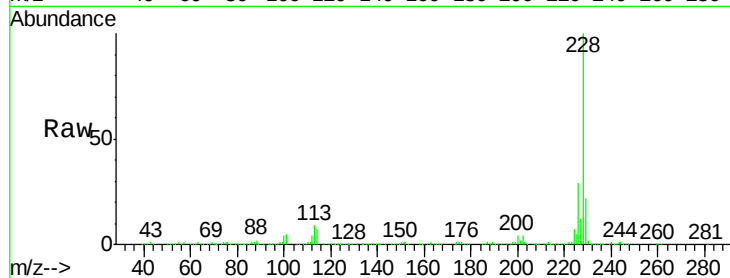
BNA_F

ClientSampleId :

SB-8DL

Tot Ion: 228 Resp: 452729

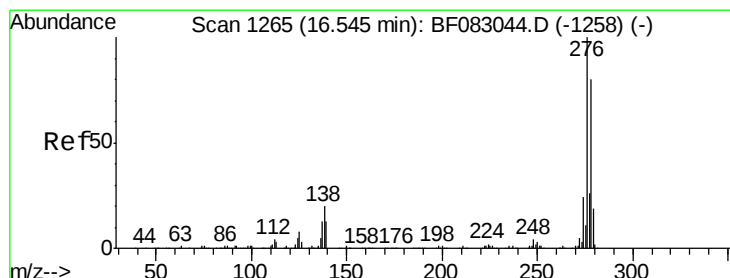
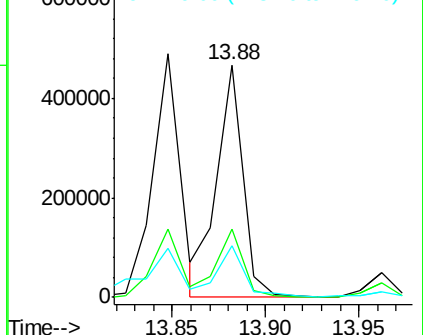
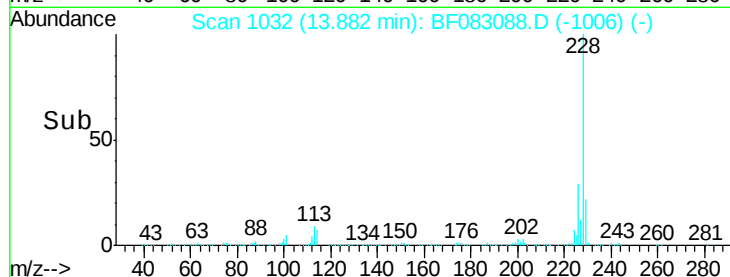
Ion	Ratio	Lower	Upper
228	100		
226	29.4	25.3	37.9
229	22.2	16.4	24.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.27 ng/mL

RT: 16.56 min Scan# 1266

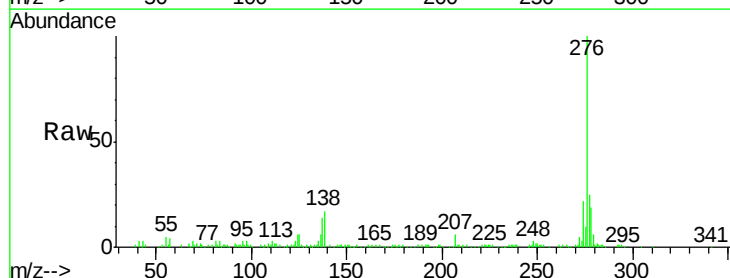
Delta R.T. 0.01 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Tgt Ion: 276 Resp: 157281

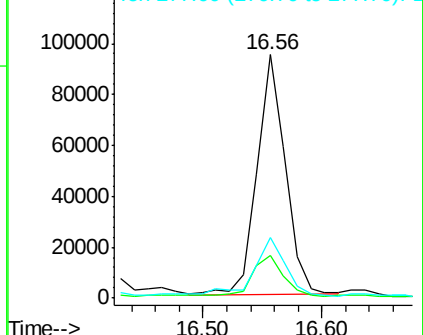
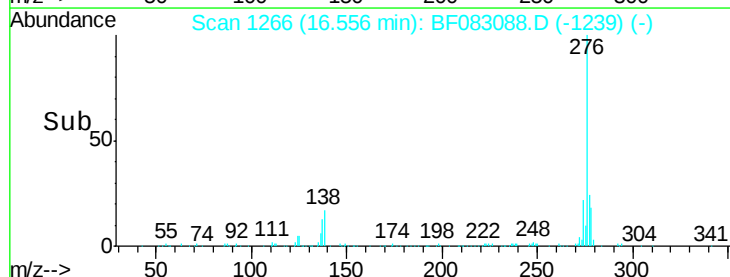
Ion	Ratio	Lower	Upper
276	100		
138	18.5	16.3	24.5
277	28.1	19.8	29.8

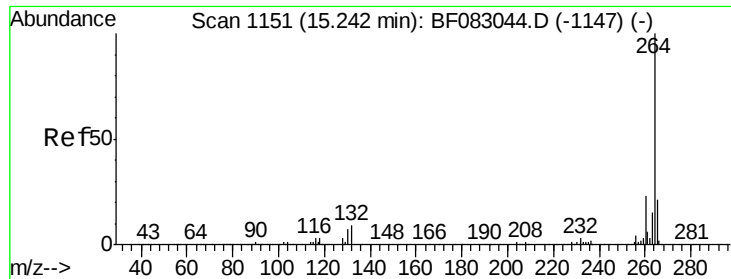


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

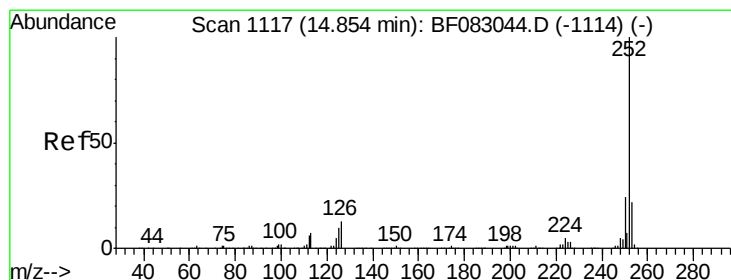
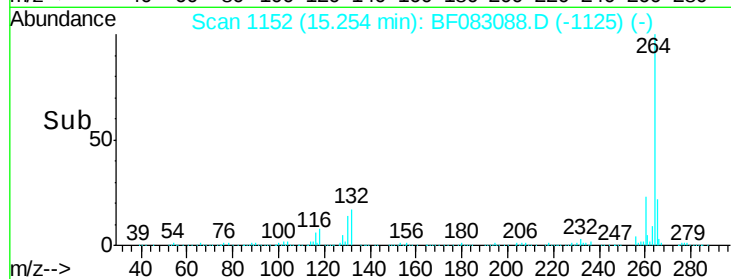
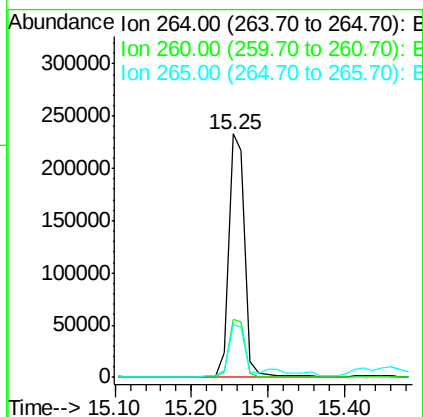
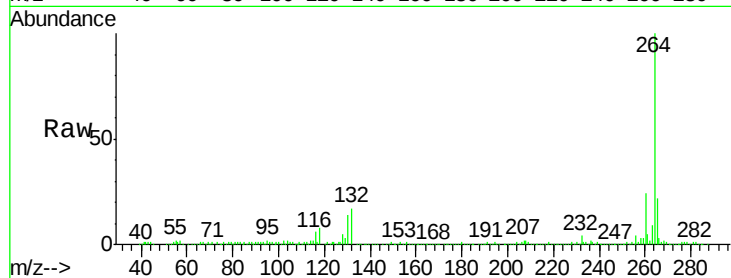




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.25 min Scan# 1152
Delta R.T. 0.01 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

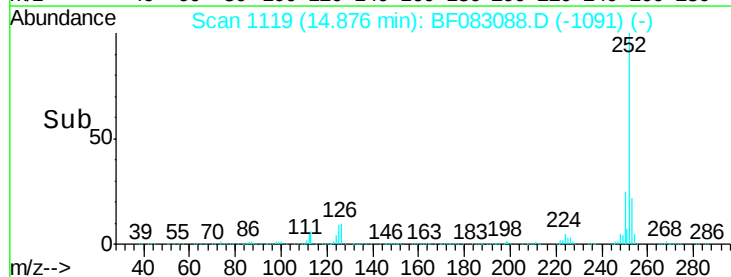
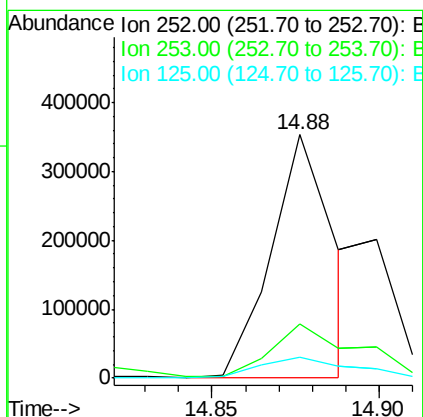
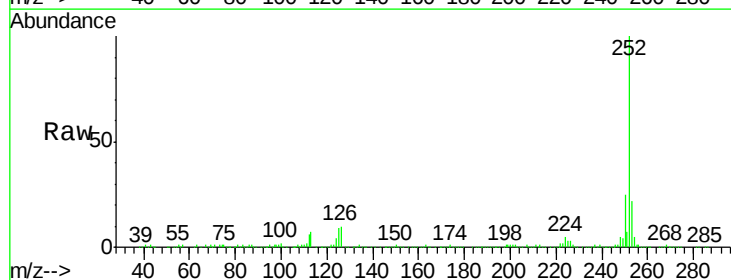
Instrument :
BNA_F
ClientSampleId :
SB-8DL

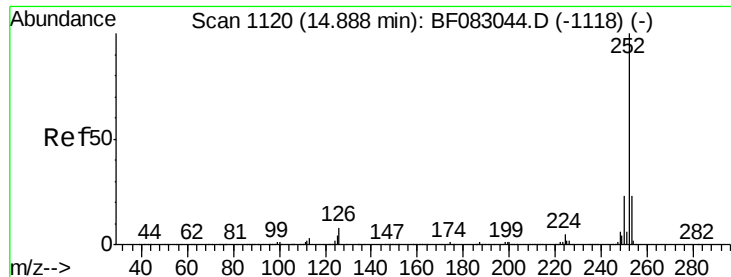
Tot Ion:264 Resp: 347360
Ion Ratio Lower Upper
264 100
260 23.7 18.6 27.8
265 21.9 17.0 25.6



#87
Benzo(b)fluoranthene
Concen: 18.86 ng m
RT: 14.88 min Scan# 1119
Delta R.T. 0.02 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Tgt Ion:252 Resp: 458199
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 8.8 7.7 11.5

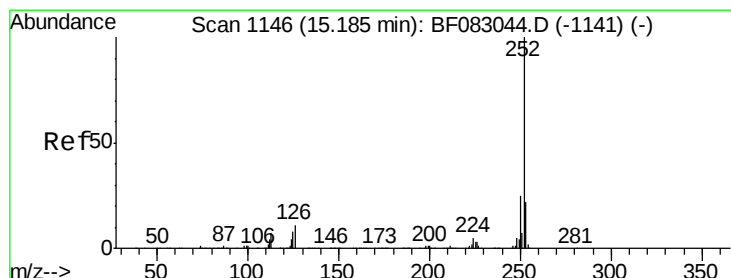
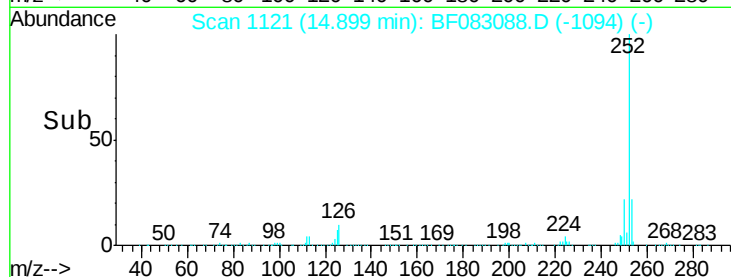
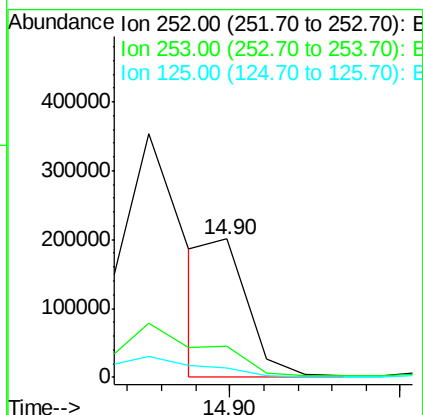
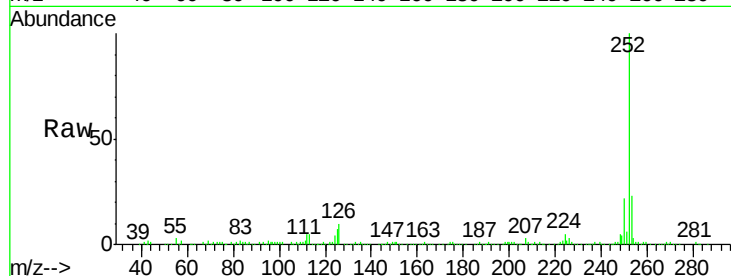




#88
Benzo(k)fluoranthene
Concen: 8.69 ng m
RT: 14.90 min Scan# 1121
Delta R.T. 0.01 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

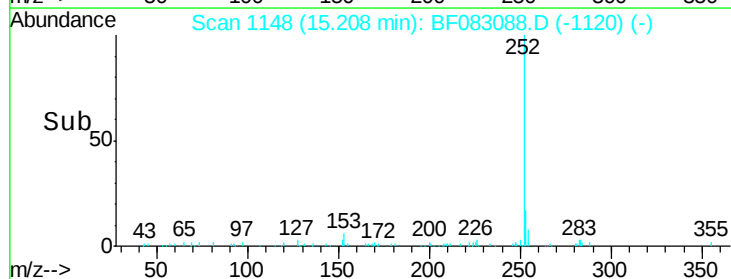
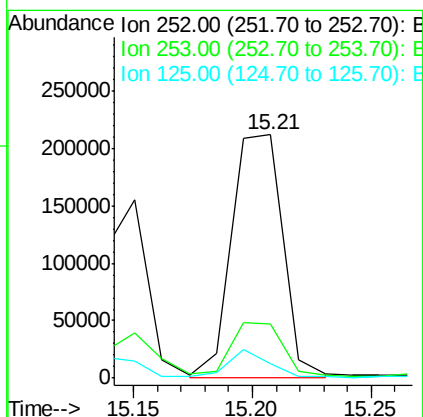
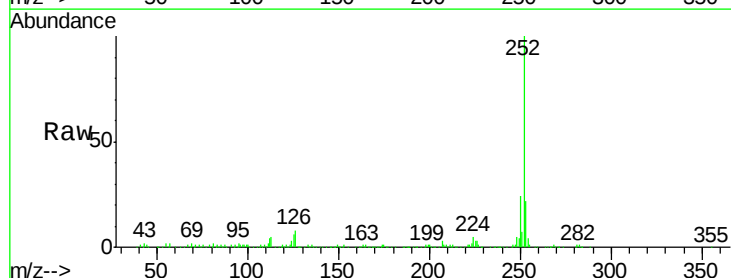
Instrument :
BNA_F
ClientSampleId :
SB-8DL

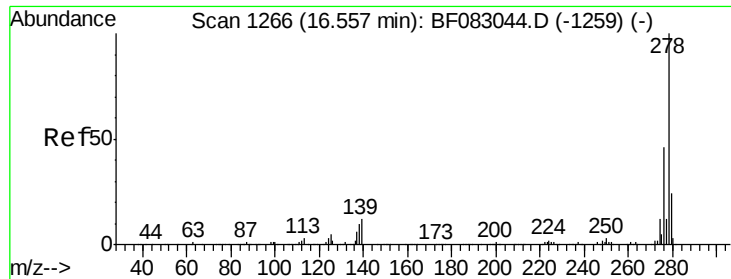
Tot Ion:252 Resp: 160782
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.6
125 7.2 3.8 5.6#



#89
Benzo(a)pyrene
Concen: 16.27 ng m
RT: 15.21 min Scan# 1148
Delta R.T. 0.02 min
Lab File: BF083088.D
Acq: 20 Nov 2015 18:44

Tgt Ion:252 Resp: 317082
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 6.2 6.4 9.6#





#90

Dibenzo(a,h)anthracene

Concen: 2.35 ng/mL

RT: 16.57 min Scan# 1267

Delta R.T. 0.01 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

Instrument :

BNA_F

ClientSampleID :

SB-8DL

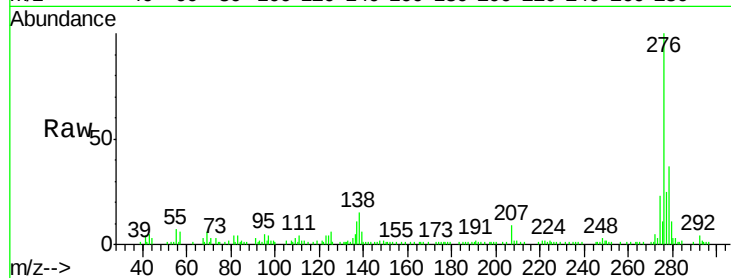
Tot Ion:278 Resp: 39856

Ion Ratio Lower Upper

278 100

139 15.5 9.8 14.8#

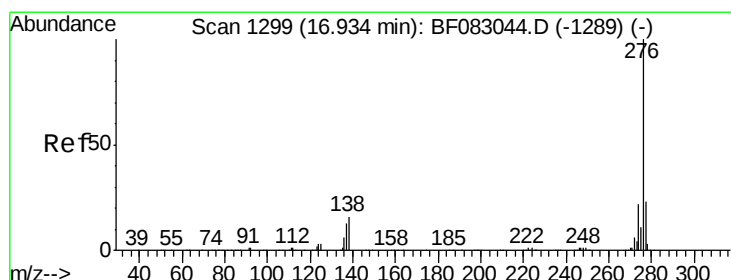
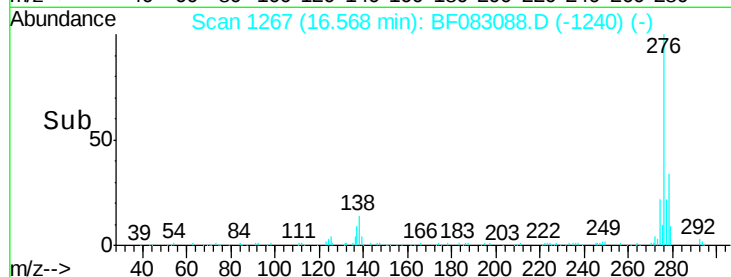
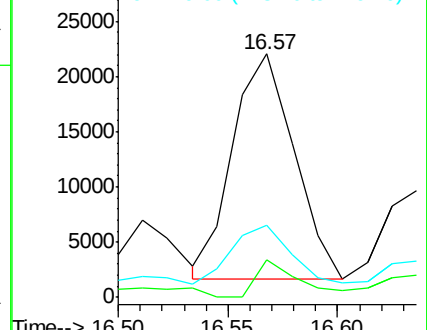
279 29.8 19.6 29.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 7.98 ng/mL

RT: 16.95 min Scan# 1300

Delta R.T. 0.01 min

Lab File: BF083088.D

Acq: 20 Nov 2015 18:44

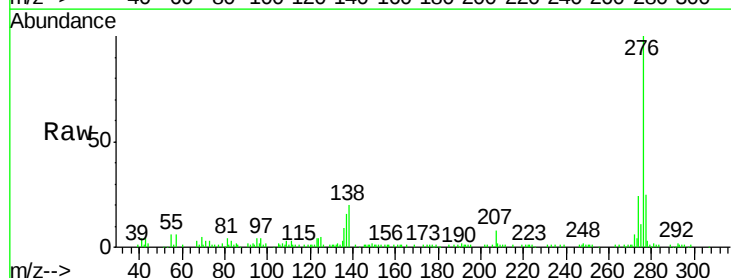
Tgt Ion:276 Resp: 131961

Ion Ratio Lower Upper

276 100

277 25.0 18.6 27.8

138 20.2 12.5 18.7#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

