

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082817\
 Data File : BF098099.D
 Acq On : 29 Aug 2017 7:02
 Operator : SJ/JU
 Sample : I4961-04
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-13-COMP

Quant Time: Aug 29 09:36:07 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

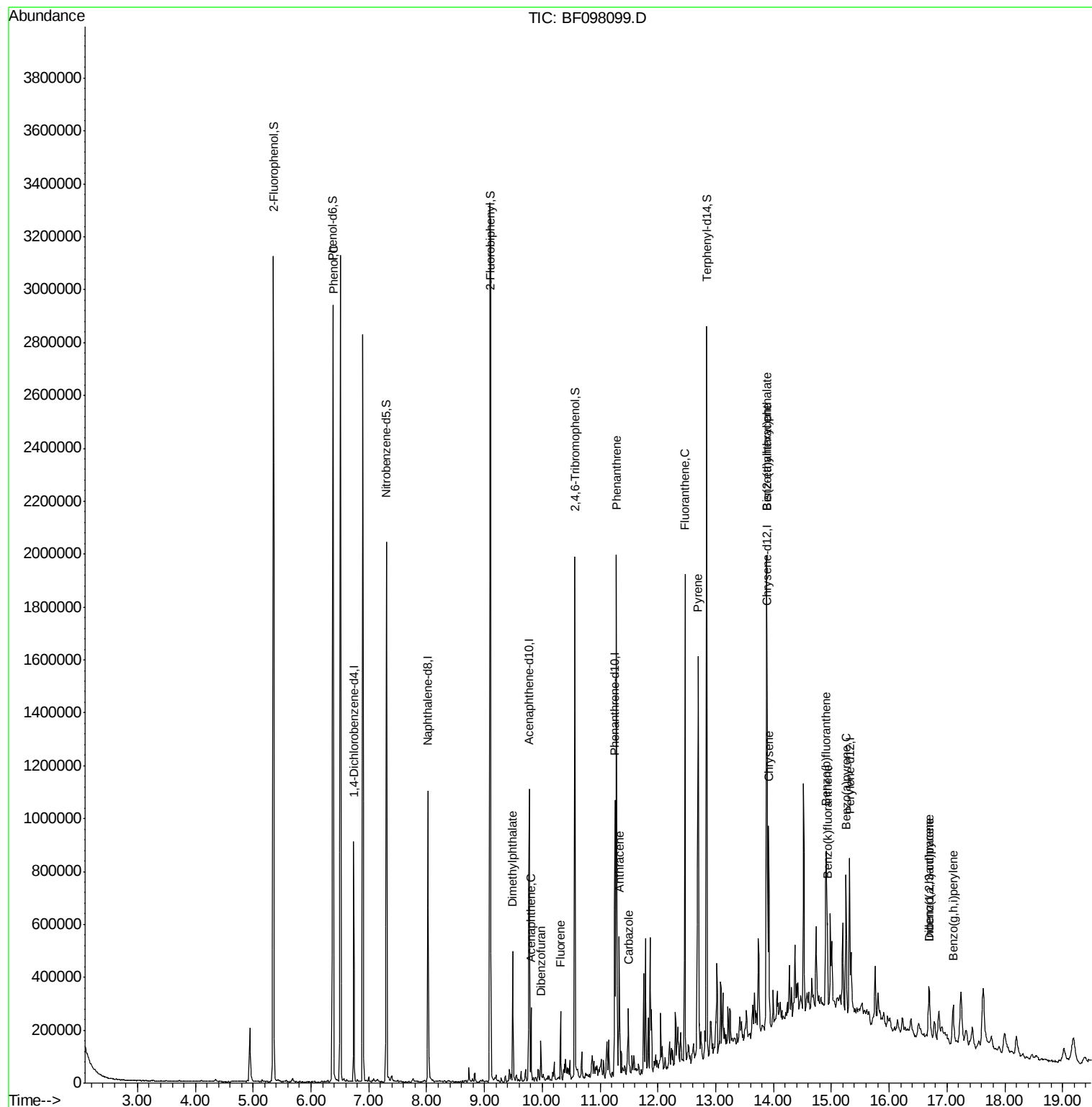
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	113562	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	449015	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	198719	20.00	ng	-0.01
63) Phenanthrene-d10	11.26	188	356551	20.00	ng	0.00
75) Chrysene-d12	13.89	240	257724	20.00	ng	0.00
86) Perylene-d12	15.32	264	267479	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	1005474	134.68	ng	0.00
7) Phenol-d6	6.38	99	1363575	134.42	ng	0.00
23) Nitrobenzene-d5	7.30	82	829698	100.38	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	223087	129.38	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	1151616	85.14	ng	0.00
78) Terphenyl-d14	12.85	244	841913	68.12	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.39	94	47057	3.966	ng	94
49) Dimethylphthalate	9.49	163	163778	11.275	ng	99
51) Acenaphthene	9.80	154	51335	3.871	ng	99
54) Dibenzofuran	9.97	168	48070	2.705	ng	# 98
57) Fluorene	10.32	166	66456	4.836	ng	97
70) Phenanthrene	11.28	178	701715	36.933	ng	100
71) Anthracene	11.33	178	201526	10.458	ng	98
72) Carbazole	11.49	167	79208	4.330	ng	98
74) Fluoranthene	12.47	202	673969	33.985	ng	99
77) Pyrene	12.70	202	653077	30.983	ng	98
80) Benzo(a)anthracene	13.88	228	299445	19.386	ng	99
82) Chrysene	13.92	228	272301	17.721	ng	97
83) Bis(2-ethylhexyl)phthalate	13.88	149	259041	28.926	ng	# 99
85) Indeno(1,2,3-cd)pyrene	16.69	276	124123	10.981	ng	# 87
87) Benzo(b)fluoranthene	14.91	252	344796m	20.450	ng	
88) Benzo(k)fluoranthene	14.93	252	83606m	5.278	ng	
89) Benzo(a)pyrene	15.26	252	254653m	17.061	ng	
90) Dibenzo(a,h)anthracene	16.70	278	32059m	2.638	ng	
91) Benzo(a,h,i)perylene	17.11	276	112636	8.884	ng	# 91

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

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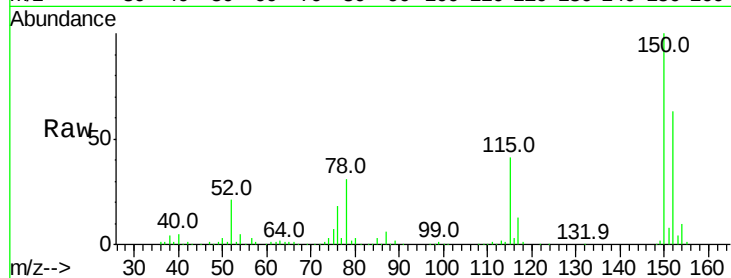


#1

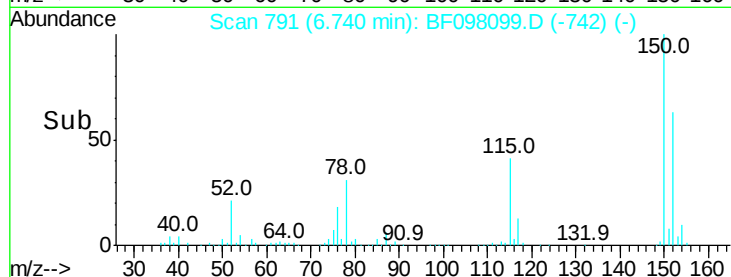
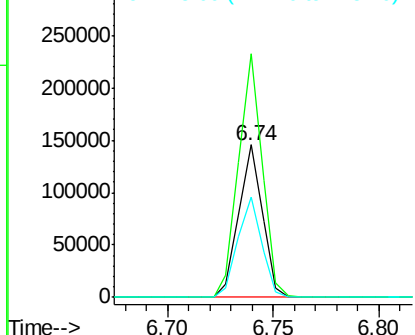
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 791
Delta R.T. -0.01 min
Lab File: BF098099.D
Acq: 29 Aug 2017 7:02

Instrument :
BNA_F
ClientSampleId :
SB-13-COMP

Tot Ion:152 Resp: 113562
Ion Ratio Lower Upper
152 100
150 159.8 126.2 189.2
115 65.7 52.2 78.2



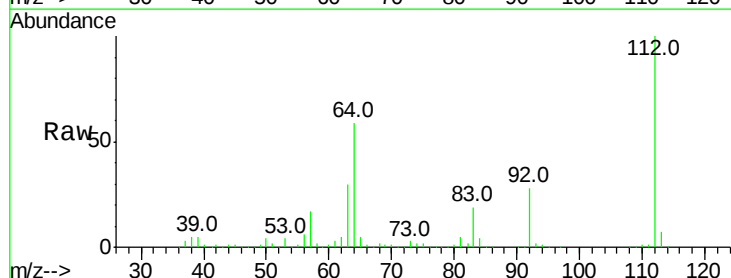
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



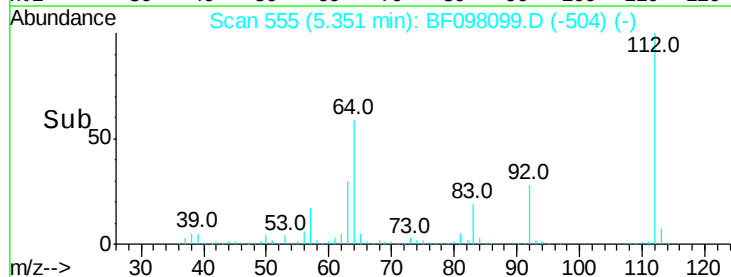
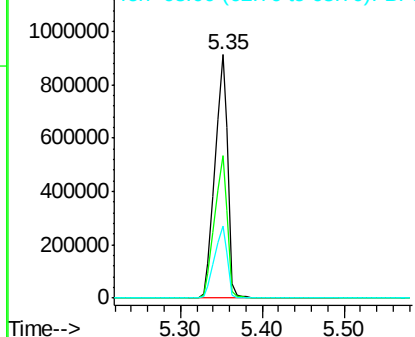
#5

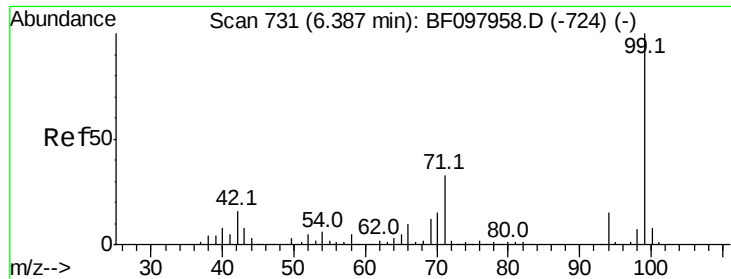
2-Fluorophenol
Concen: 134.675 ng
RT: 5.35 min Scan# 555
Delta R.T. 0.00 min
Lab File: BF098099.D
Acq: 29 Aug 2017 7:02

Tgt Ion:112 Resp: 1005474
Ion Ratio Lower Upper
112 100
64 58.6 46.0 69.0
63 29.7 23.4 35.0



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: 134.421 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

Instrument :

BNA_F

ClientSampleId :

SB-13-COMP

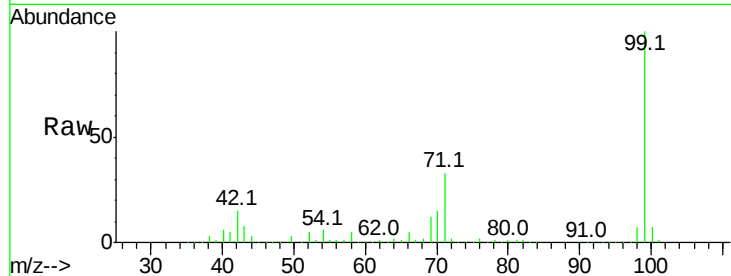
Tot Ion: 99 Resp: 1363575

Ion Ratio Lower Upper

99 100

42 15.2 13.5 20.3

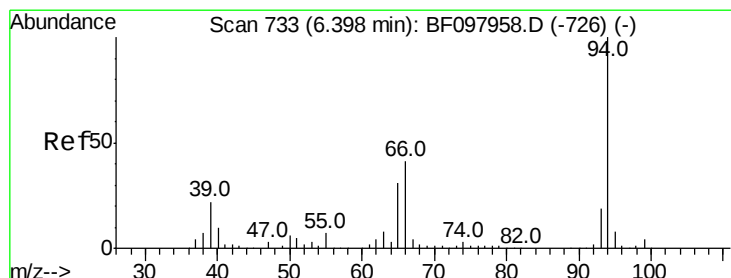
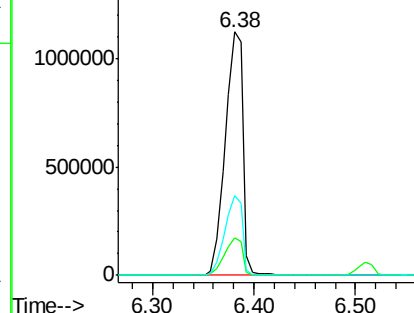
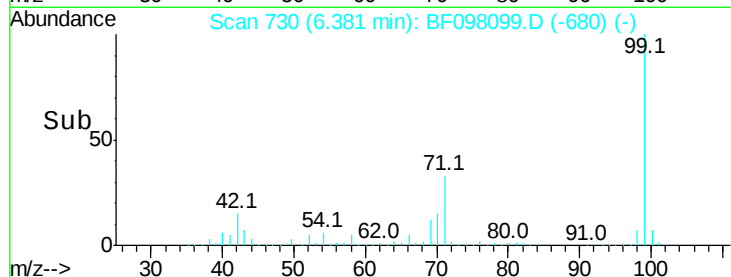
71 32.7 24.5 36.7



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



#10

Phenol

Concen: 3.966 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

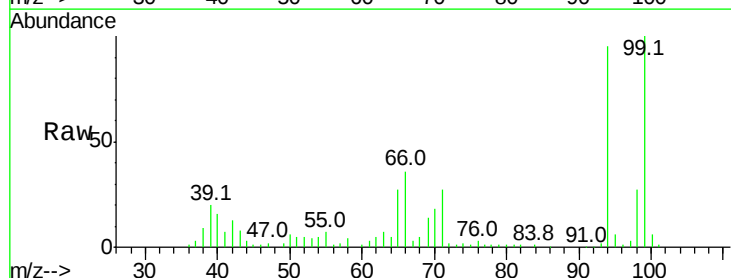
Tgt Ion: 94 Resp: 47057

Ion Ratio Lower Upper

94 100

65 28.2 9.9 49.9

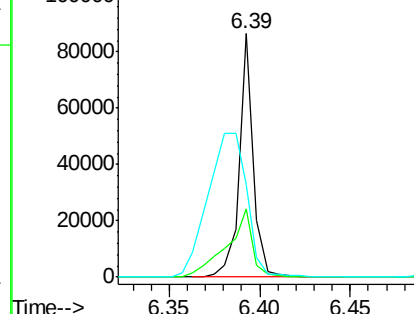
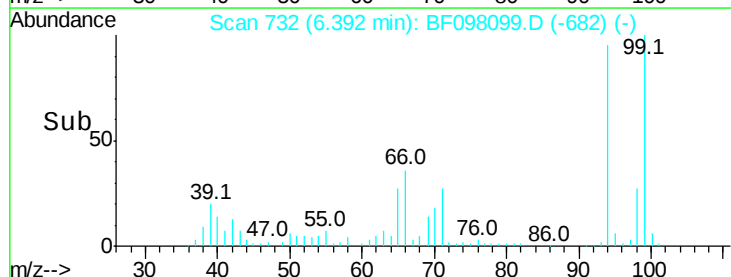
66 38.0 23.1 63.1

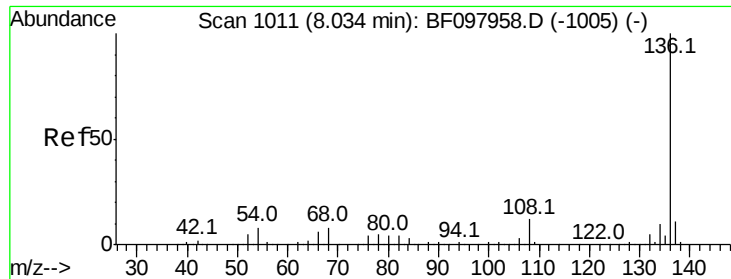


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

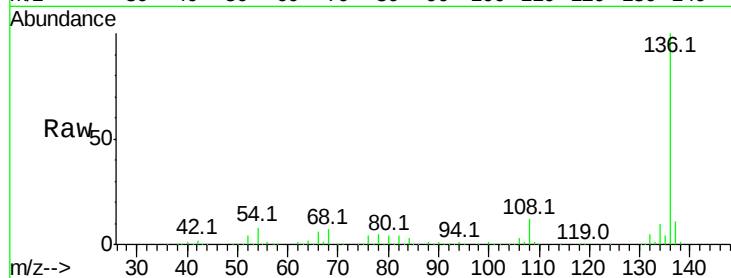




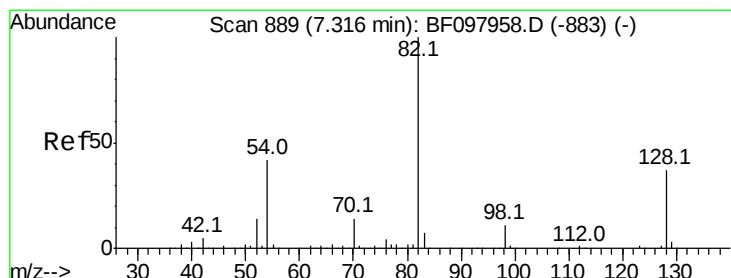
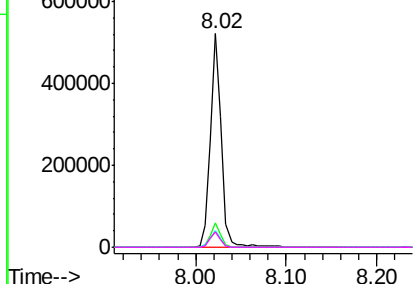
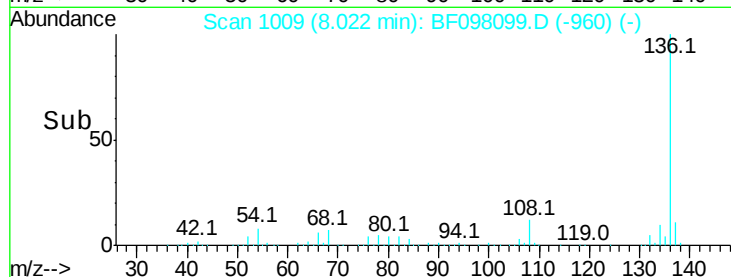
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.02 min Scan# 1009
Delta R.T. -0.01 min
Lab File: BF098099.D
Acq: 29 Aug 2017 7:02

Instrument :
BNA_F
ClientSampleId :
SB-13-COMP

Tot Ion:	136	Resp:	449015
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.5	12.7
54	7.6	4.9	7.3#
68	7.4	4.1	6.1#

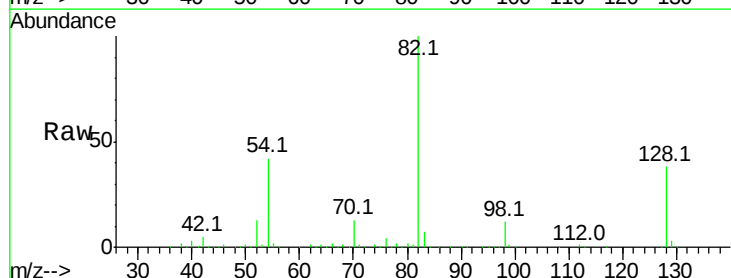


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

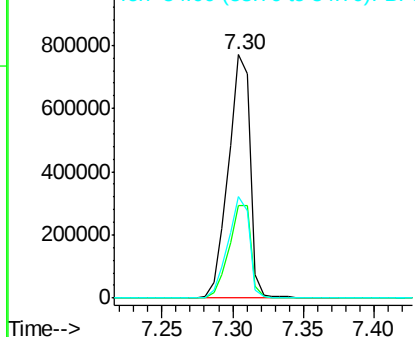
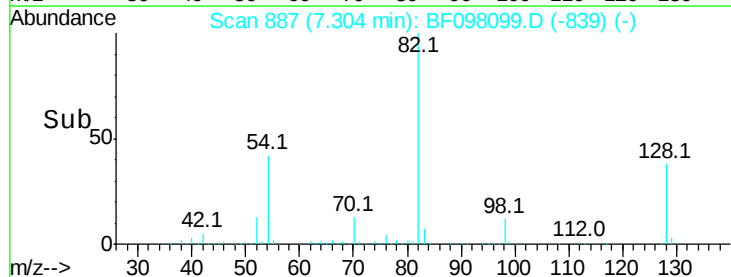


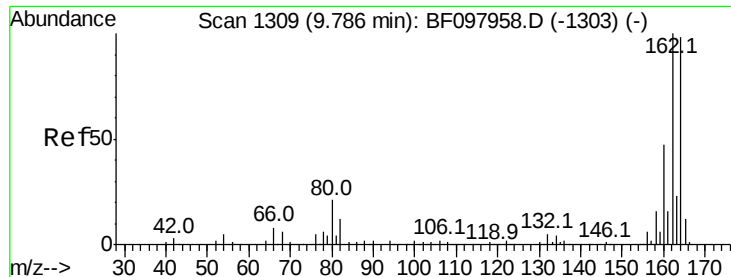
#23
Nitrobenzene-d5
Concen: 100.382 ng
RT: 7.30 min Scan# 887
Delta R.T. -0.02 min
Lab File: BF098099.D
Acq: 29 Aug 2017 7:02

Tgt Ion:	82	Resp:	829698
Ion	Ratio	Lower	Upper
82	100		
128	38.1	34.0	51.0
54	41.8	42.2	63.2#



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

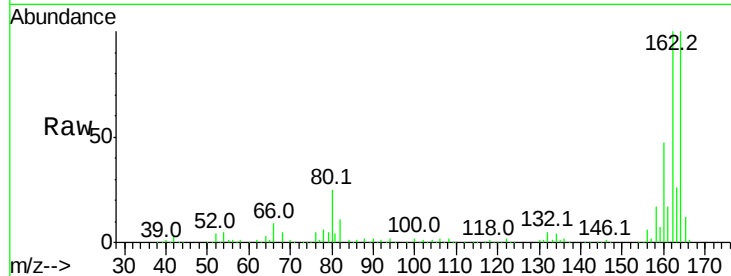




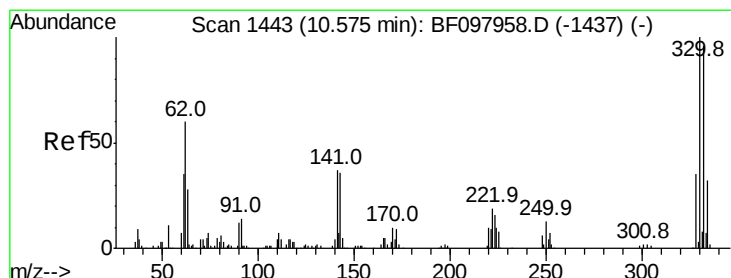
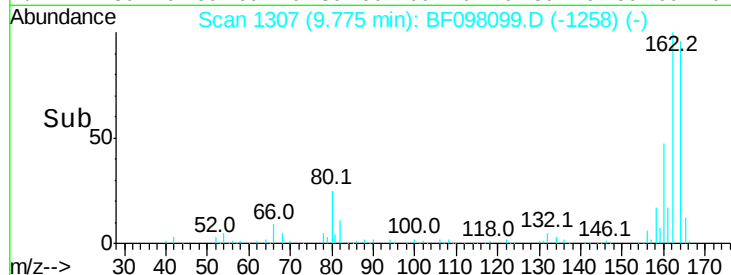
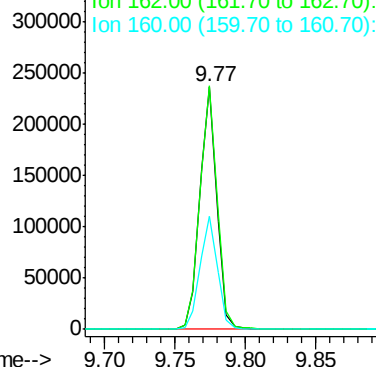
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF098099.D
Acq: 29 Aug 2017 7:02

Instrument :
BNA_F
ClientSampleId :
SB-13-COMP

Tot Ion:164 Resp: 198719
Ion Ratio Lower Upper
164 100
162 100.2 82.6 123.8
160 46.7 36.2 54.2

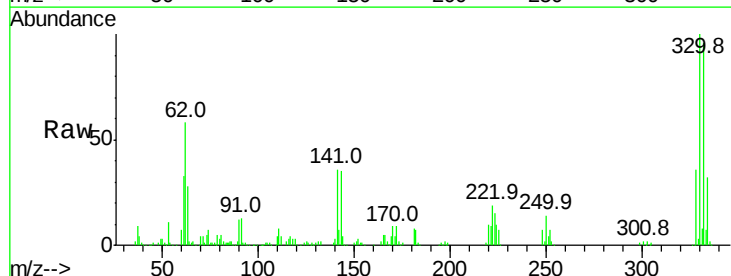


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

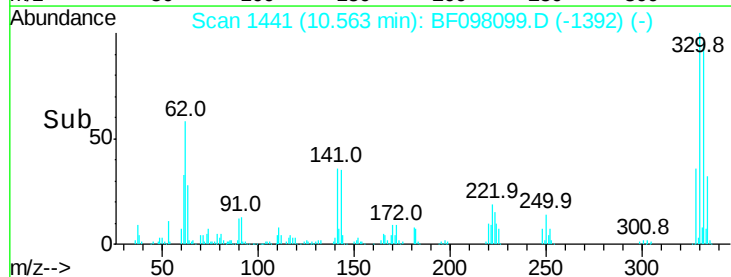
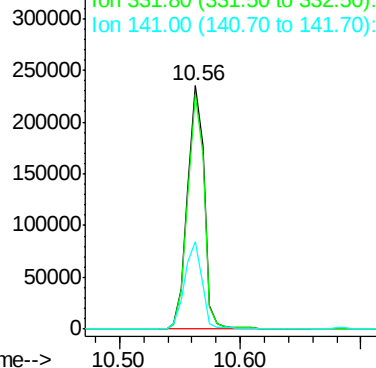


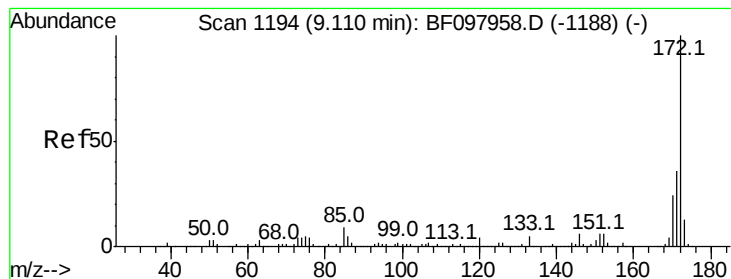
#41
2,4,6-Tribromophenol
Concen: 129.385 ng
RT: 10.56 min Scan# 1441
Delta R.T. -0.01 min
Lab File: BF098099.D
Acq: 29 Aug 2017 7:02

Tgt Ion:330 Resp: 223087
Ion Ratio Lower Upper
330 100
332 95.8 76.6 115.0
141 37.8 31.4 47.2



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: 85.143 ng

RT: 9.10 min Scan# 1193

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

Instrument :

BNA_F

ClientSampleId :

SB-13-COMP

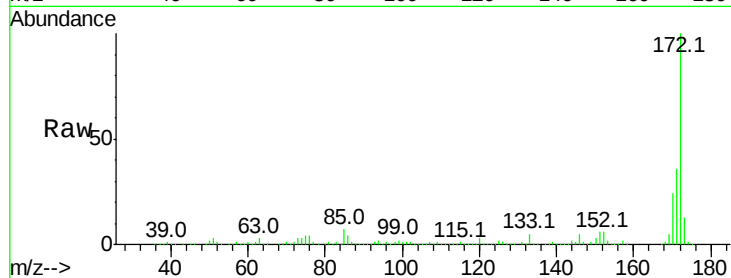
Tot Ion:172 Resp: 1151616

Ion Ratio Lower Upper

172 100

171 36.2 29.6 44.4

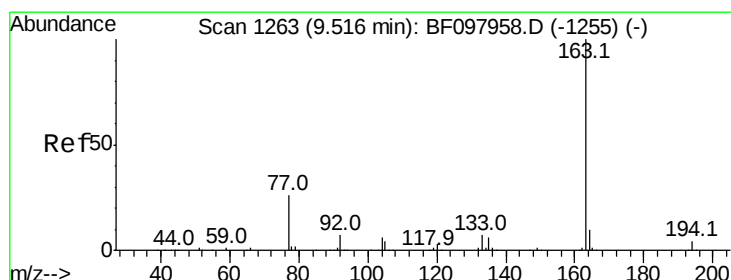
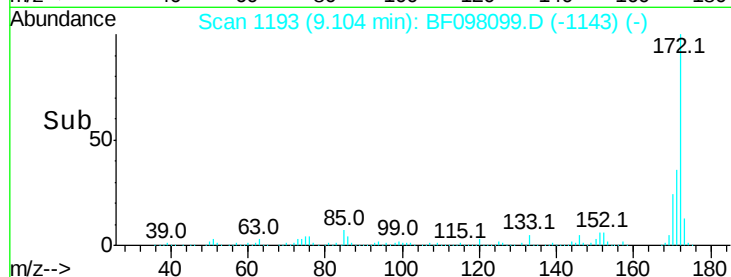
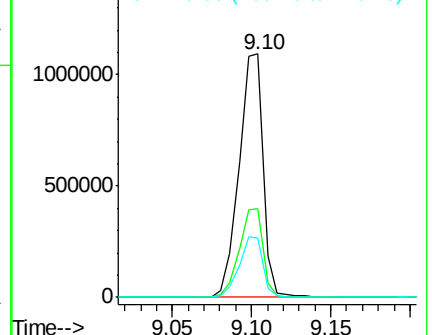
170 24.4 19.8 29.8



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: 11.275 ng

RT: 9.49 min Scan# 1259

Delta R.T. -0.02 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

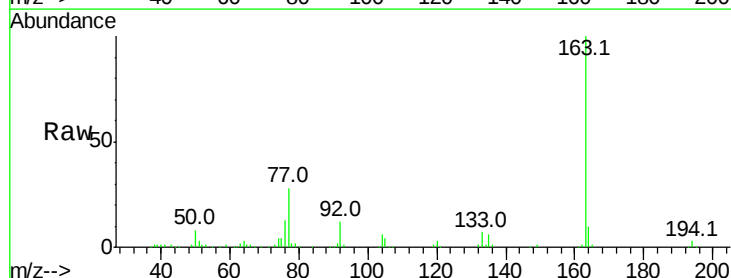
Tgt Ion:163 Resp: 163778

Ion Ratio Lower Upper

163 100

194 3.4 2.6 4.0

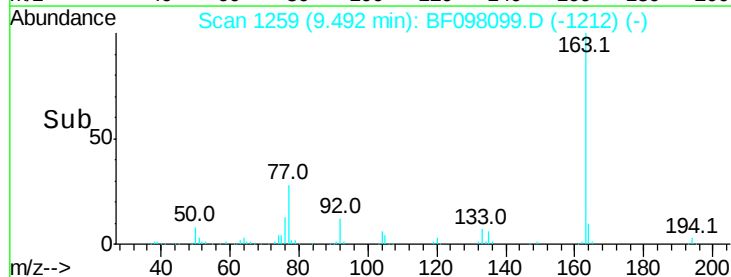
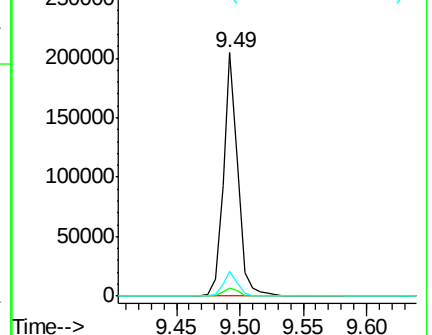
164 10.2 8.4 12.6

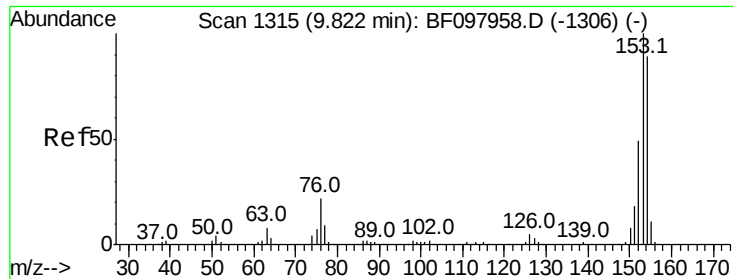


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 3.871 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

Instrument :

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ClientSampleId :

SB-13-COMP

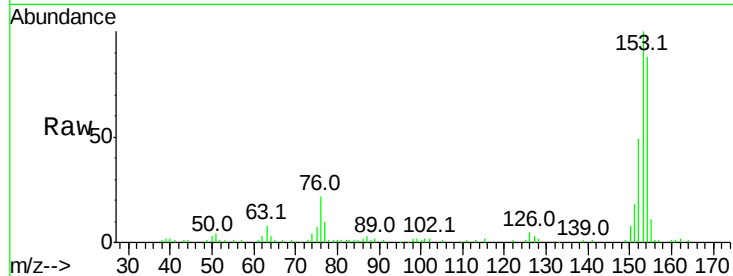
Tot Ion:154 Resp: 51335

Ion Ratio Lower Upper

154 100

153 113.7 90.5 135.7

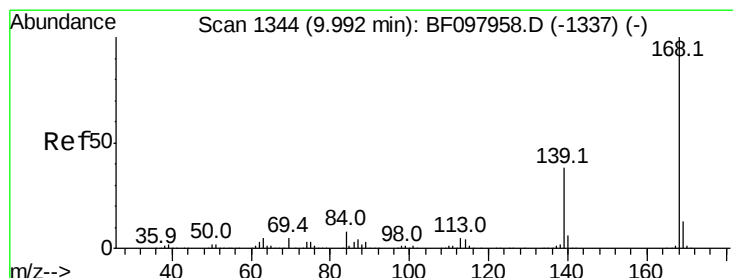
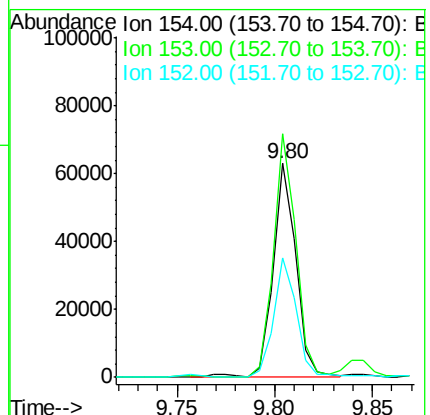
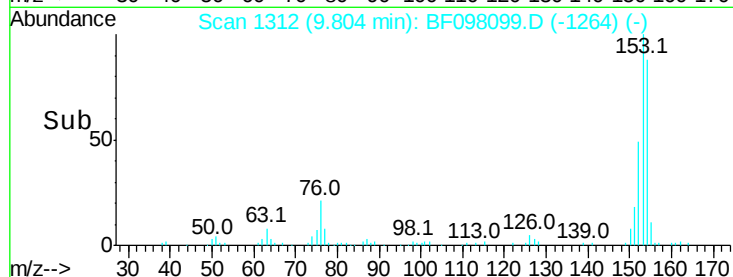
152 56.0 43.6 65.4



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: 2.705 ng

RT: 9.97 min Scan# 1341

Delta R.T. -0.02 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

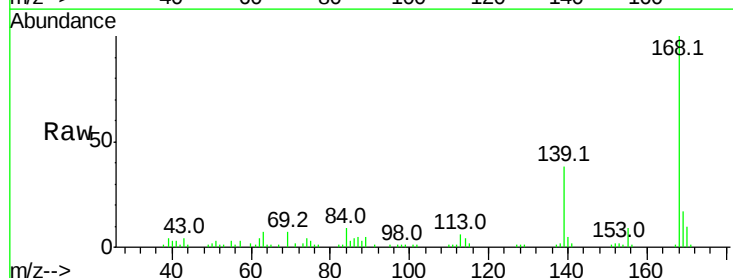
Tgt Ion:168 Resp: 48070

Ion Ratio Lower Upper

168 100

139 38.2 30.6 45.8

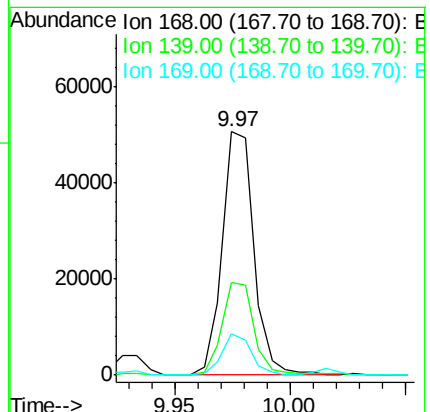
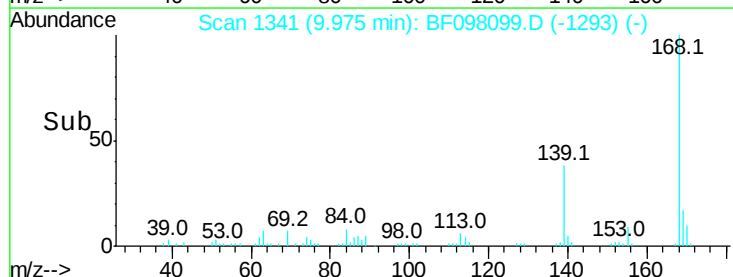
169 16.8 10.8 16.2#

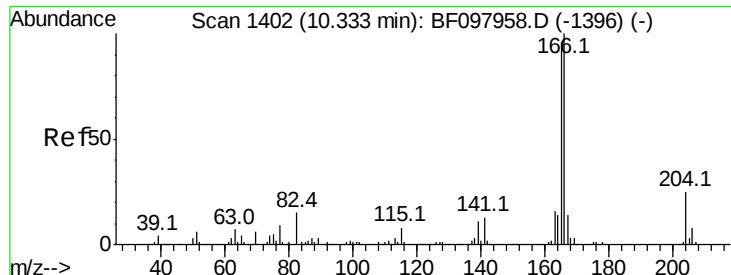


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

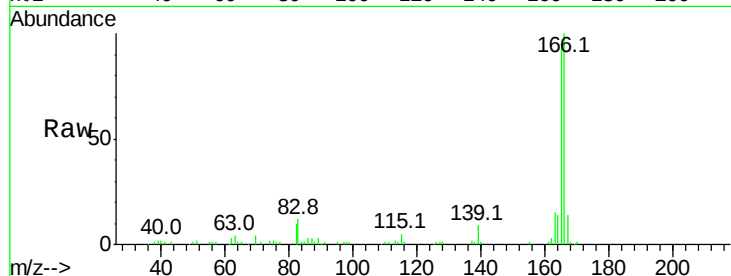




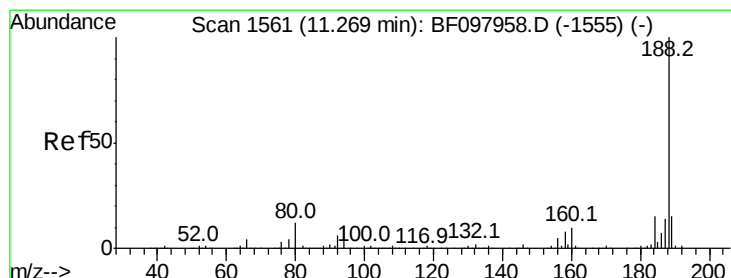
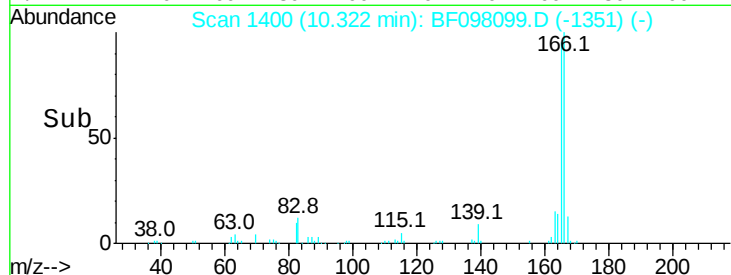
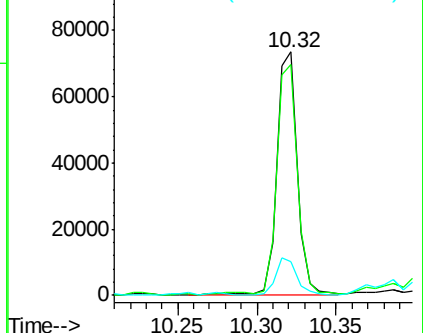
#57
Fluorene
 Concen: 4.836 ng
 RT: 10.32 min Scan# 1400
 Delta R.T. -0.01 min
 Lab File: BF098099.D
 Acq: 29 Aug 2017 7:02

Instrument :
 BNA_F
 ClientSampleId :
 SB-13-COMP

Tot Ion:166 Resp: 66456
 Ion Ratio Lower Upper
 166 100
 165 94.8 78.8 118.2
 167 13.6 10.6 16.0

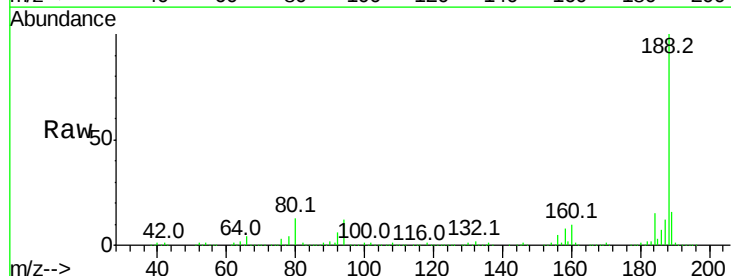


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

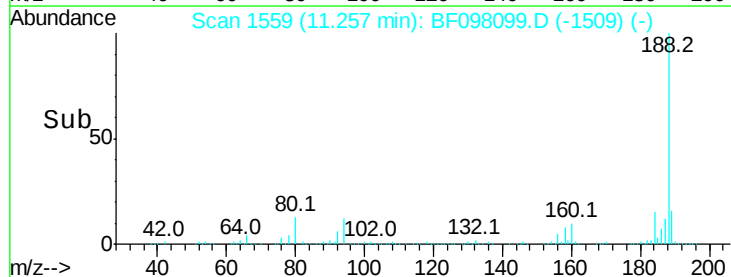
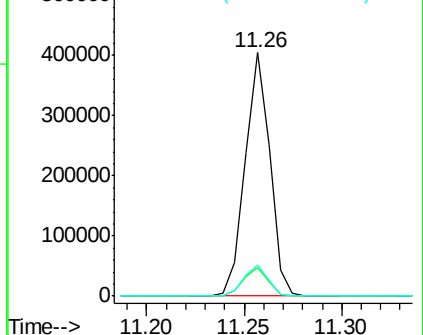


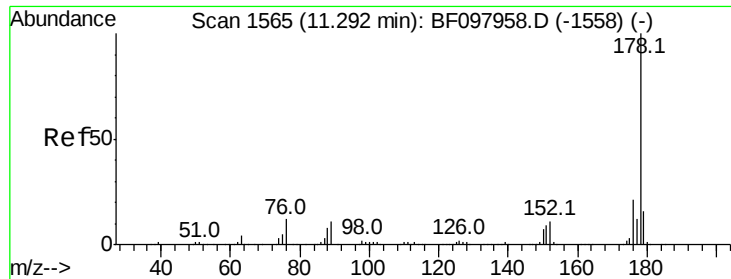
#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.26 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BF098099.D
 Acq: 29 Aug 2017 7:02

Tgt Ion:188 Resp: 356551
 Ion Ratio Lower Upper
 188 100
 94 11.5 9.4 14.2
 80 12.7 10.2 15.2



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

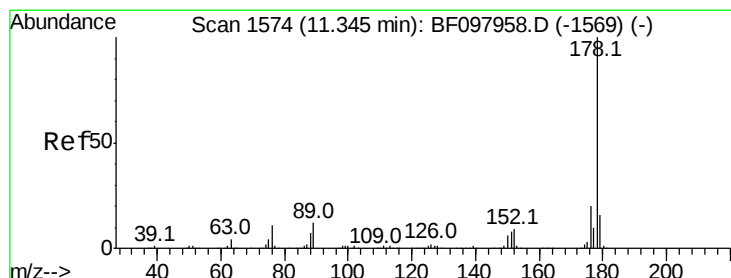
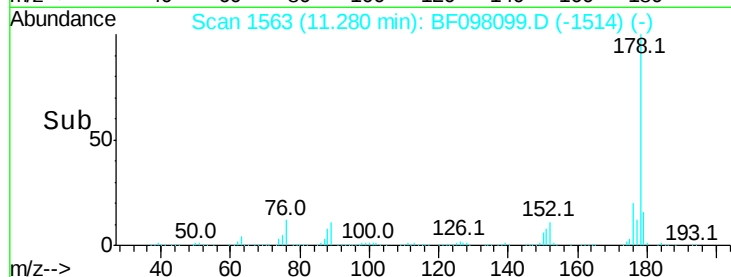
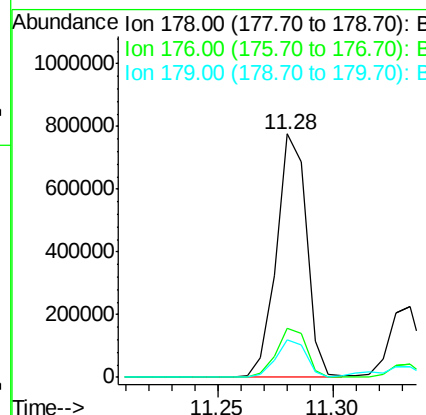
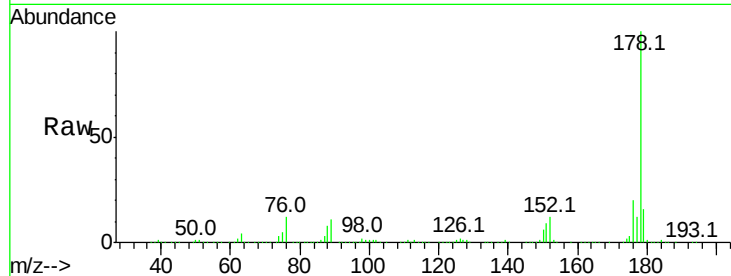




#70
 Phenanthrene
 Concen: 36.933 ng
 RT: 11.28 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: BF098099.D
 Acq: 29 Aug 2017 7:02

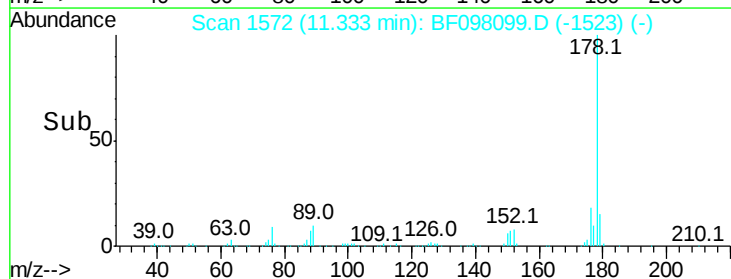
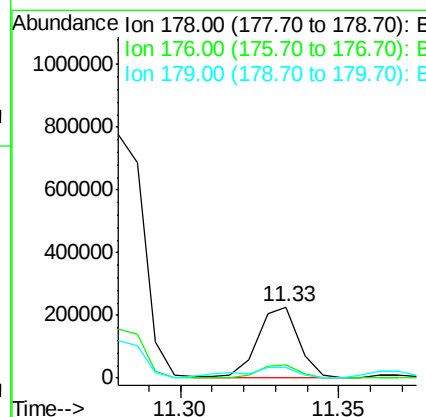
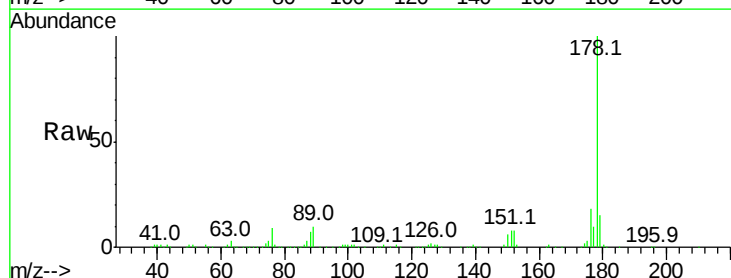
Instrument :
 BNA_F
 ClientSampleId :
 SB-13-COMP

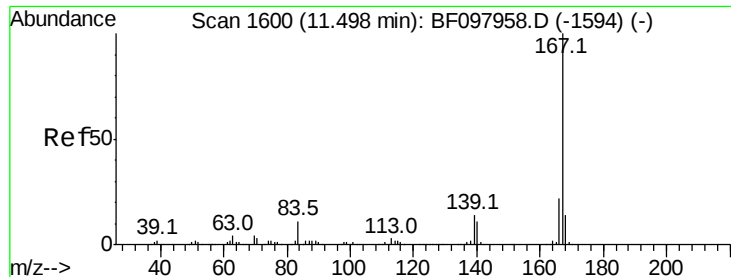
Tot Ion:178 Resp: 701715
 Ion Ratio Lower Upper
 178 100
 176 20.2 16.2 24.4
 179 15.6 12.6 19.0



#71
 Anthracene
 Concen: 10.458 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF098099.D
 Acq: 29 Aug 2017 7:02

Tgt Ion:178 Resp: 201526
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.8 23.8
 179 15.3 12.7 19.1

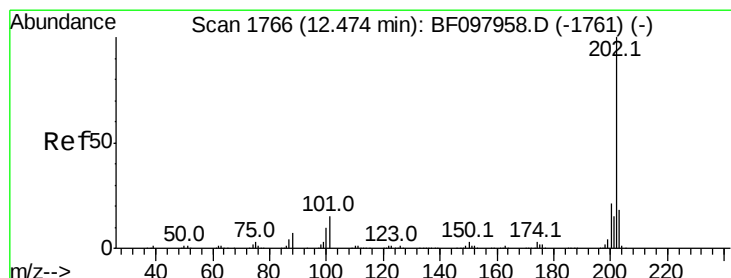
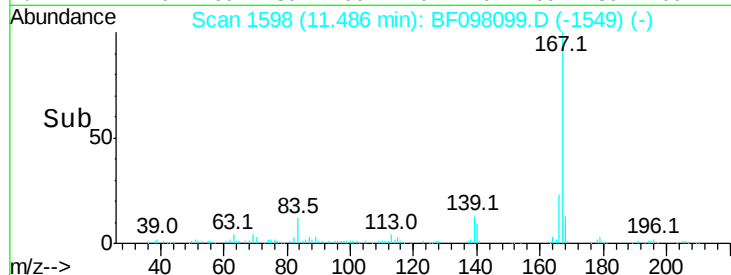
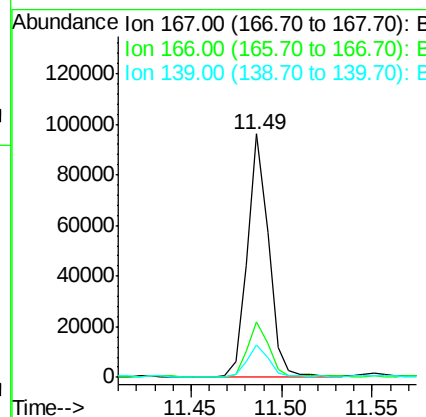
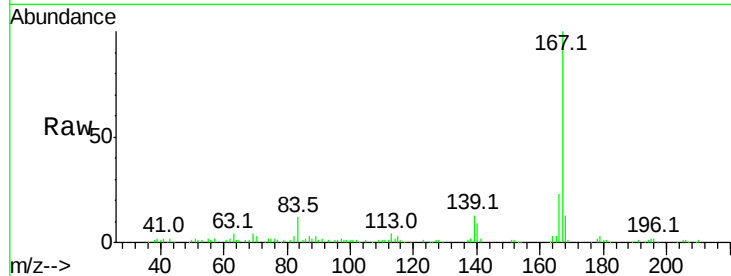




#72
 Carbazole
 Concen: 4.330 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. -0.01 min
 Lab File: BF098099.D
 Acq: 29 Aug 2017 7:02

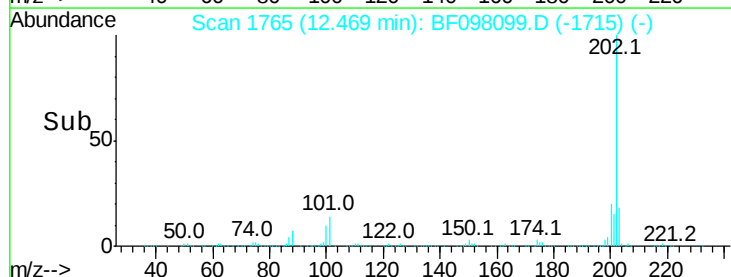
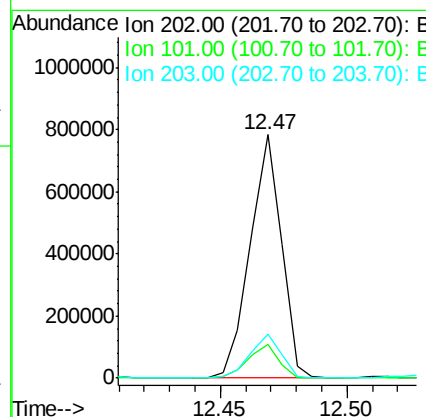
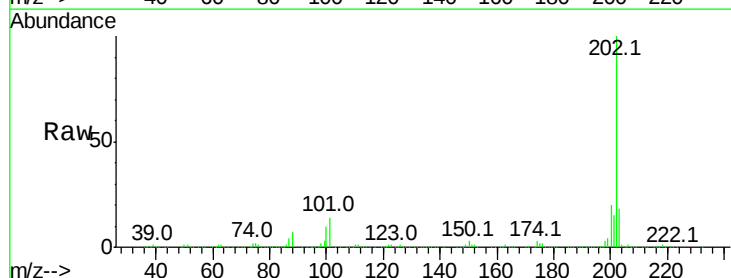
Instrument :
 BNA_F
 ClientSampleId :
 SB-13-COMP

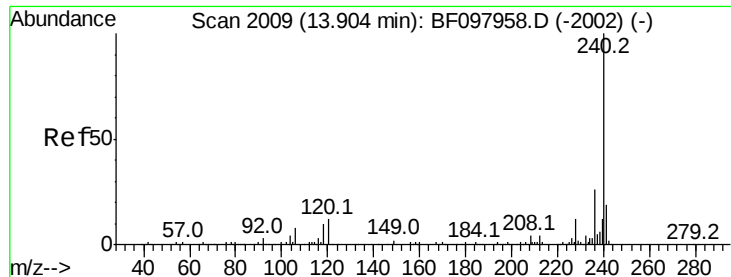
Tot Ion	Ratio	Lower	Upper
167	100		
166	23.0	18.1	27.1
139	13.1	11.7	17.5



#74
 Fluoranthene
 Concen: 33.985 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. -0.01 min
 Lab File: BF098099.D
 Acq: 29 Aug 2017 7:02

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	33.2
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

Instrument :

BNA_F

ClientSampleId :

SB-13-COMP

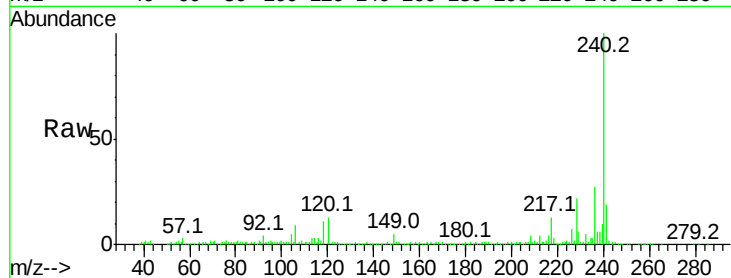
Tot Ion:240 Resp: 257724

Ion Ratio Lower Upper

240 100

120 13.4 5.8 8.8#

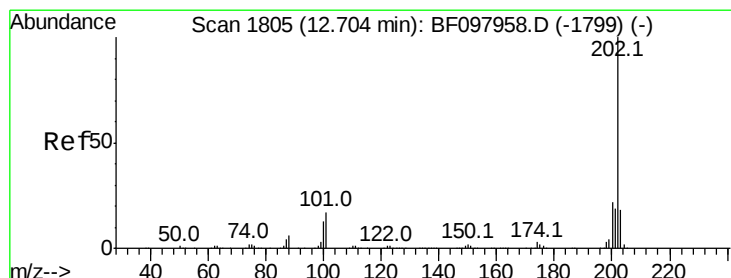
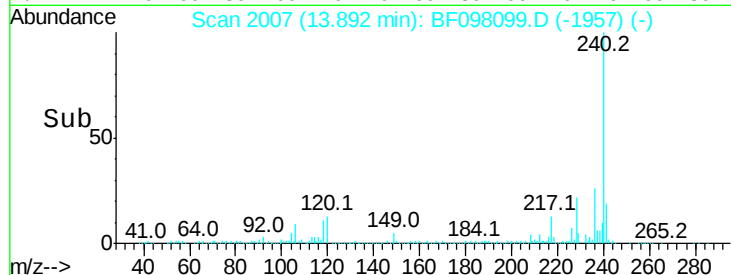
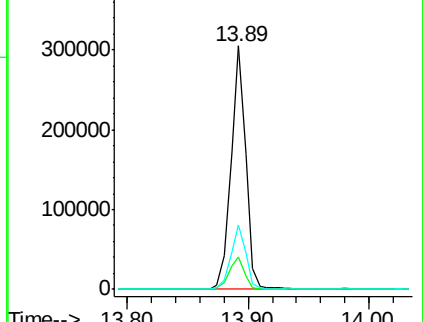
236 26.5 20.5 30.7



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: 30.983 ng

RT: 12.70 min Scan# 1804

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

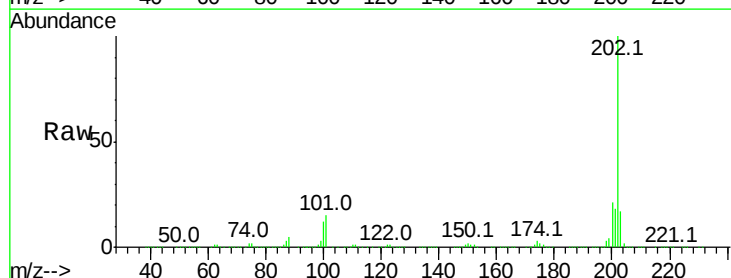
Tgt Ion:202 Resp: 653077

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

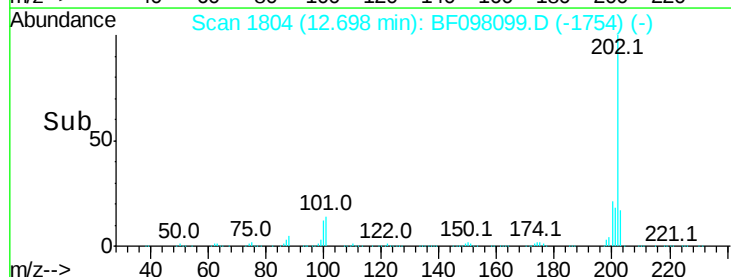
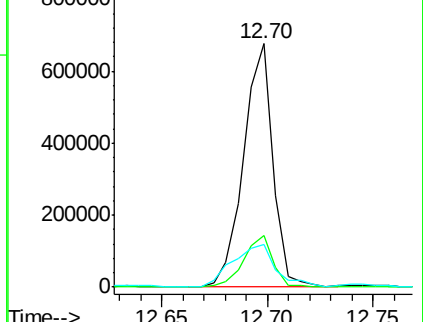
203 17.5 14.4 21.6

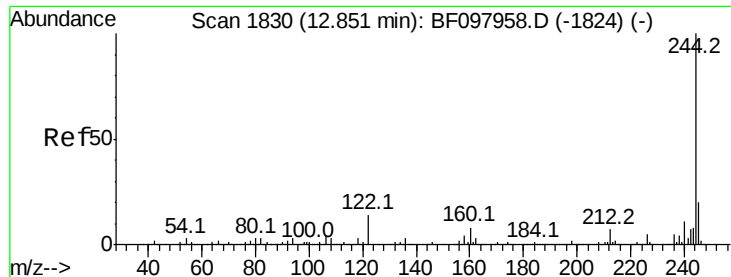


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 68.122 ng

RT: 12.85 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

Instrument :

BNA_F

ClientSampleId :

SB-13-COMP

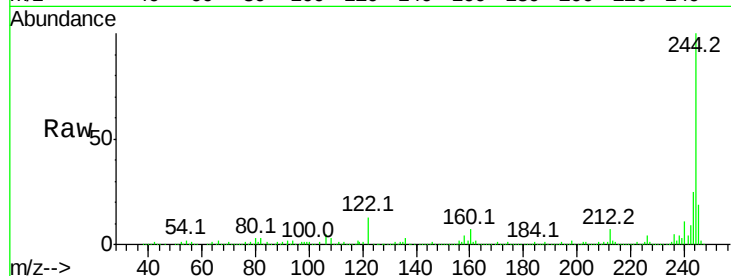
Tot Ion:244 Resp: 841913

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

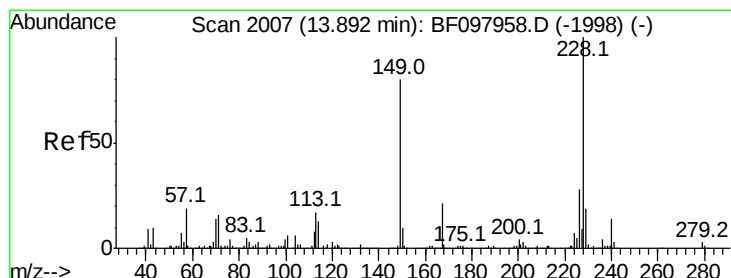
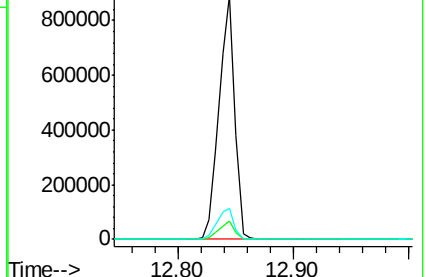
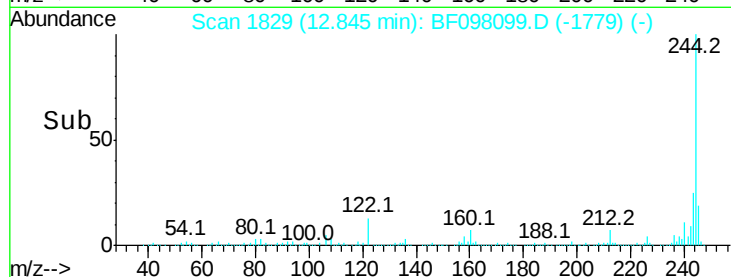
122 12.9 10.3 15.5



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: 19.386 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

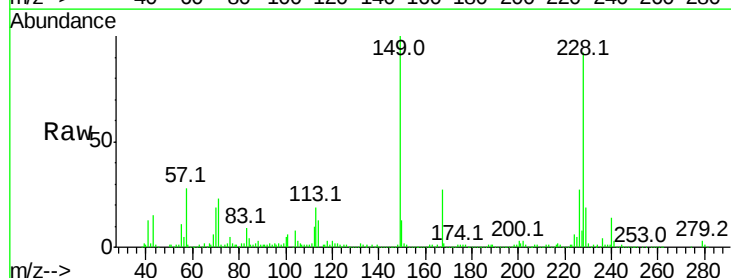
Tgt Ion:228 Resp: 299445

Ion Ratio Lower Upper

228 100

226 29.3 22.6 33.8

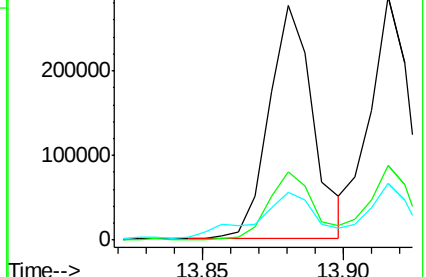
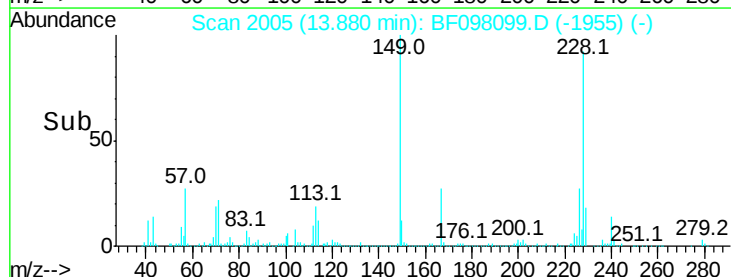
229 20.3 16.3 24.5

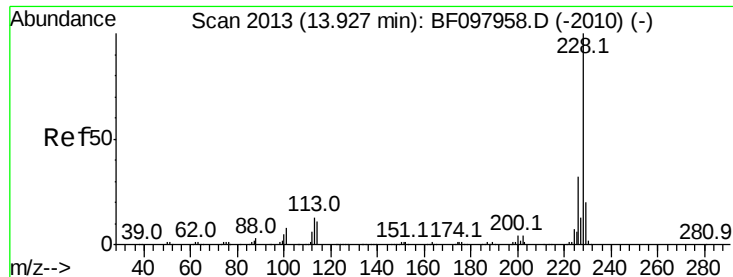


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 17.721 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

Instrument :

BNA_F

ClientSampleId :

SB-13-COMP

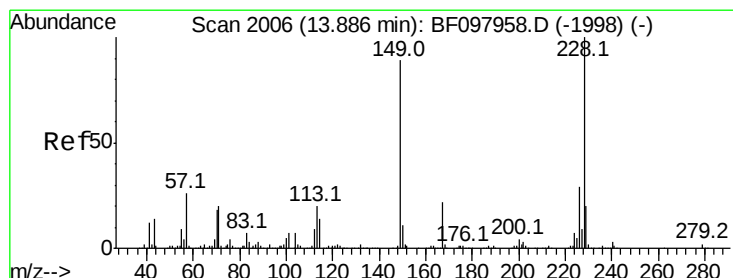
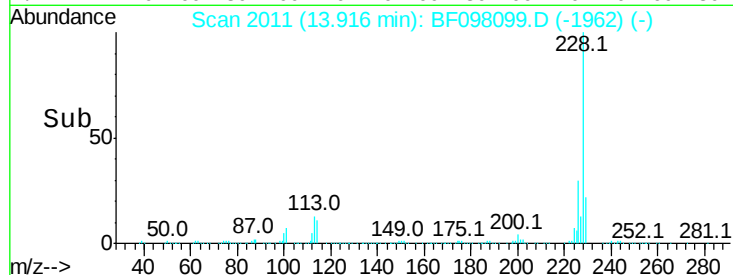
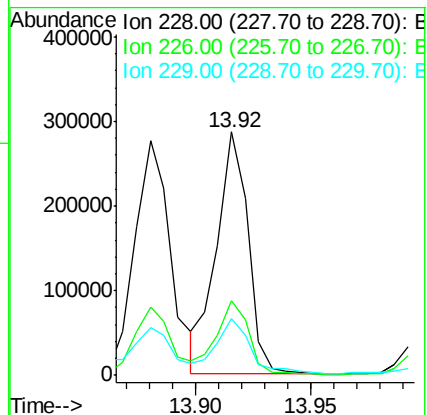
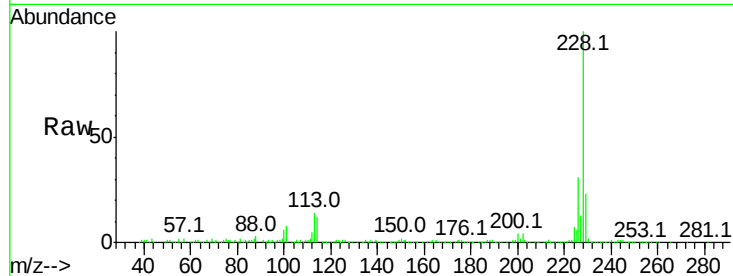
Tot Ion:228 Resp: 272301

Ion Ratio Lower Upper

228 100

226 30.7 24.9 37.3

229 23.1 15.8 23.6



#83

Bis(2-ethylhexyl)phthalate

Concen: 28.926 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

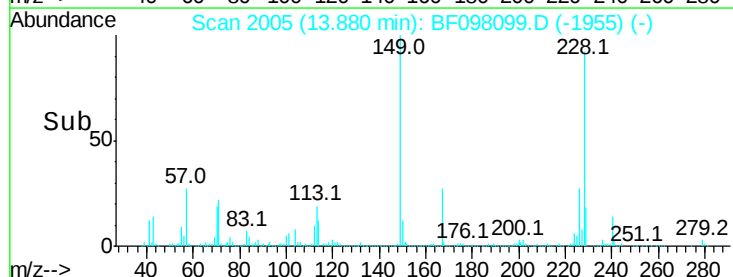
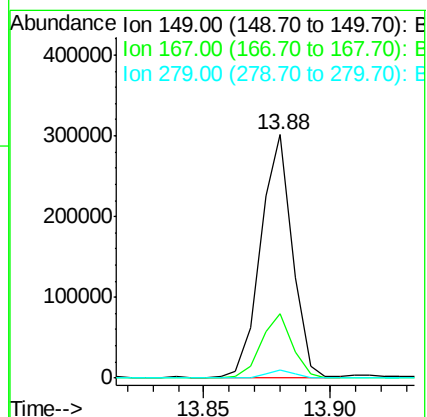
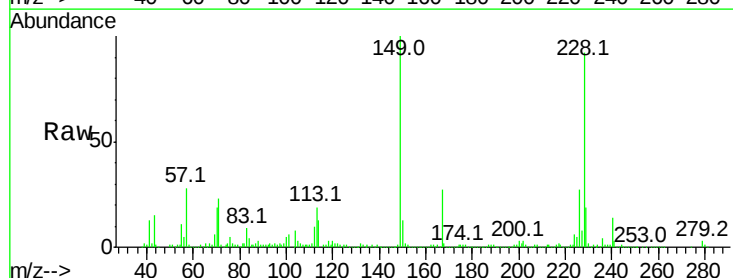
Tgt Ion:149 Resp: 259041

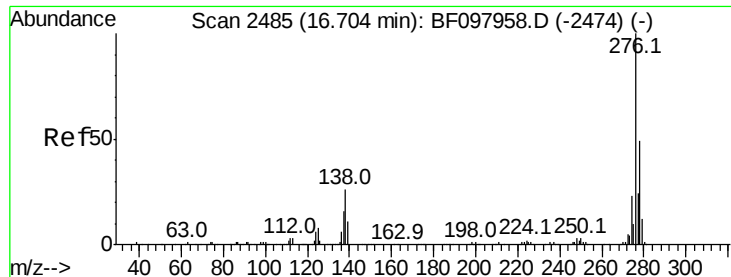
Ion Ratio Lower Upper

149 100

167 26.6 21.0 31.4

279 3.2 1.9 2.9#

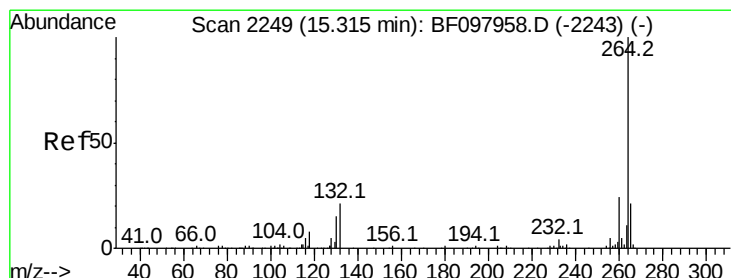
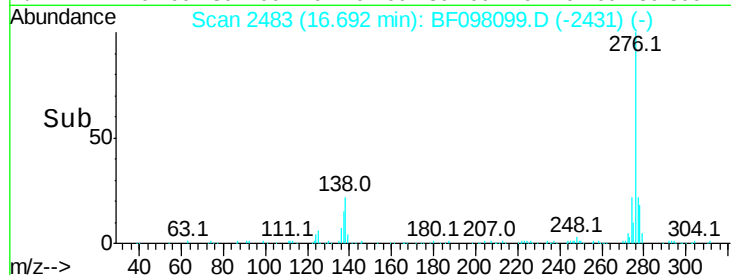
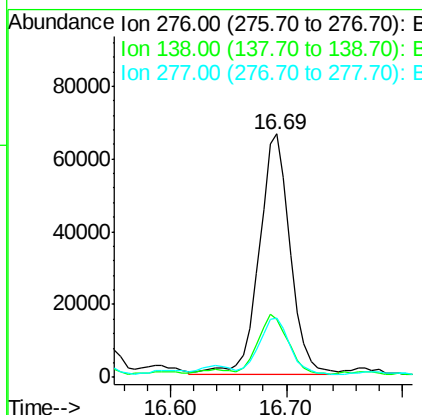
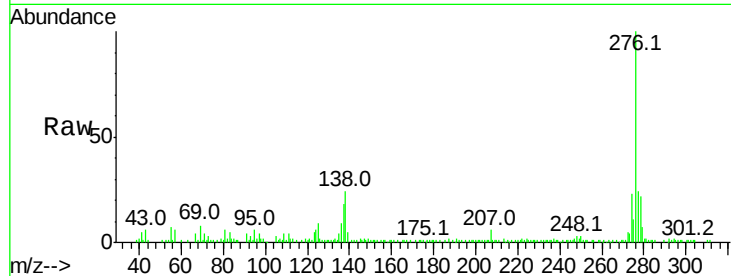




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.981 ng
 RT: 16.69 min Scan# 2483
 Delta R.T. 0.01 min
 Lab File: BF098099.D
 Acq: 29 Aug 2017 7:02

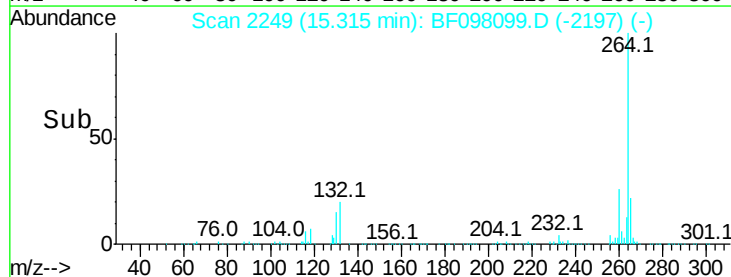
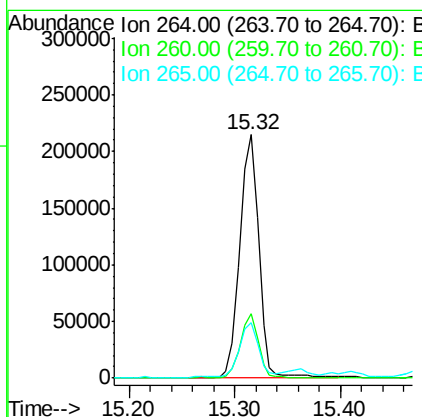
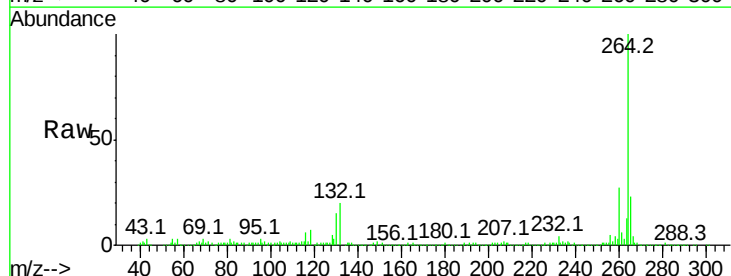
Instrument :
 BNA_F
 ClientSampleId :
 SB-13-COMP

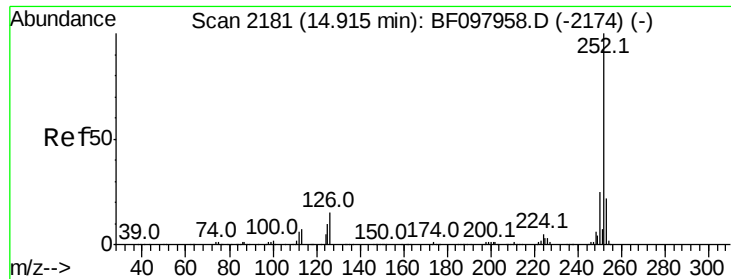
Tot Ion:276 Resp: 124123
 Ion Ratio Lower Upper
 276 100
 138 23.8 27.8 41.6#
 277 23.2 20.2 30.4



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.32 min Scan# 2249
 Delta R.T. 0.01 min
 Lab File: BF098099.D
 Acq: 29 Aug 2017 7:02

Tgt Ion:264 Resp: 267479
 Ion Ratio Lower Upper
 264 100
 260 26.5 19.5 29.3
 265 22.7 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 20.450 ng m

RT: 14.91 min Scan# 2180

Delta R.T. 0.00 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

Instrument :

BNA_F

ClientSampleId :

SB-13-COMP

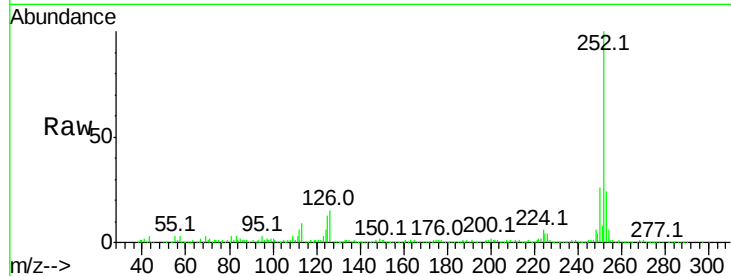
Tot Ion:252 Resp: 344796

Ion Ratio Lower Upper

252 100

253 23.9 18.1 27.1

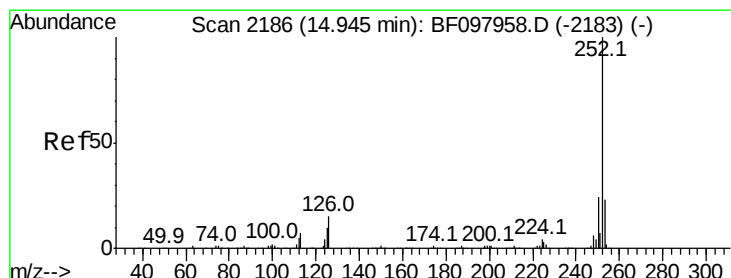
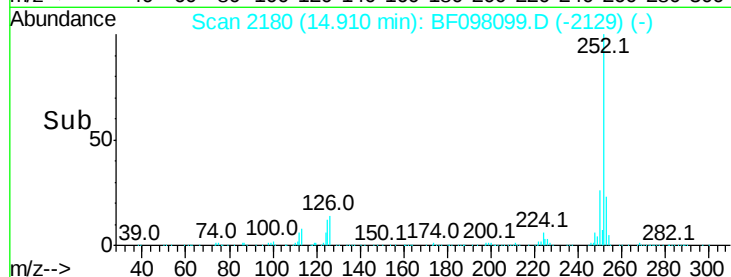
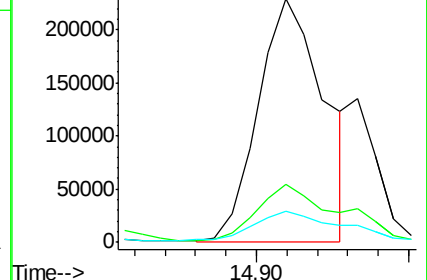
125 12.6 9.8 14.8



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: 5.278 ng m

RT: 14.93 min Scan# 2184

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

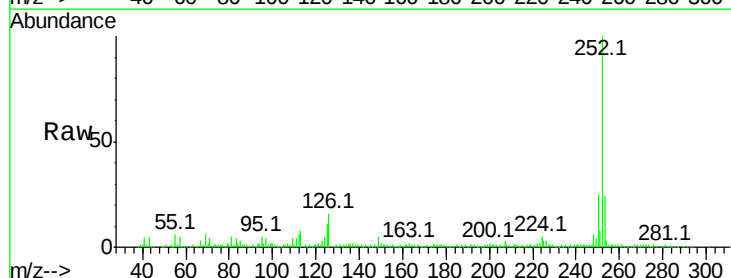
Tgt Ion:252 Resp: 83606

Ion Ratio Lower Upper

252 100

253 23.7 18.4 27.6

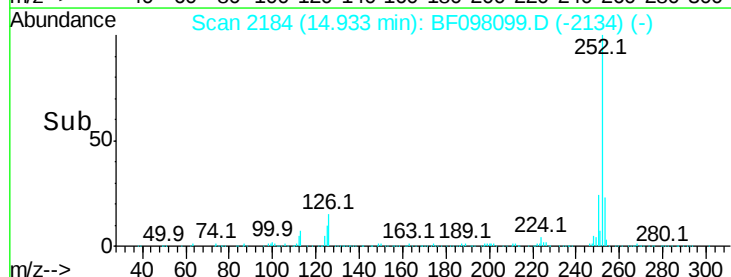
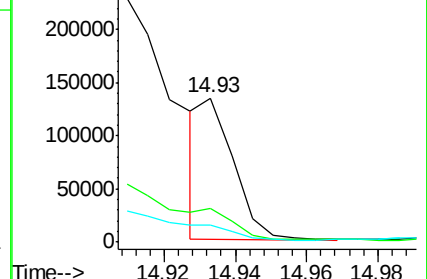
125 11.5 13.1 19.7#

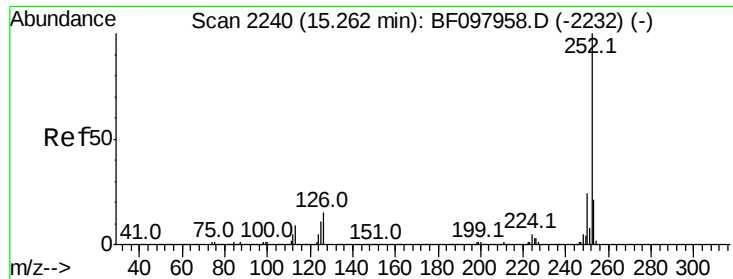


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 17.061 ng m

RT: 15.26 min Scan# 2239

Delta R.T. 0.00 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

Instrument :

BNA_F

ClientSampleId :

SB-13-COMP

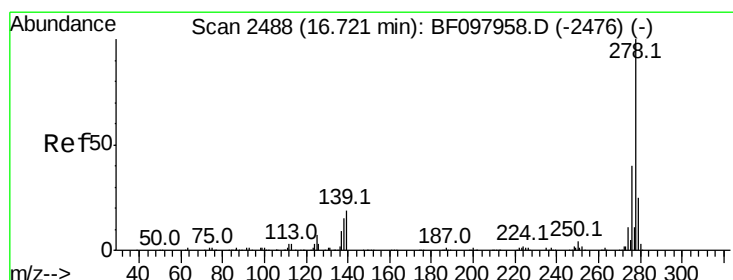
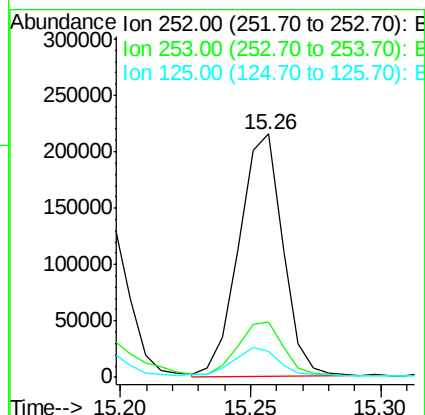
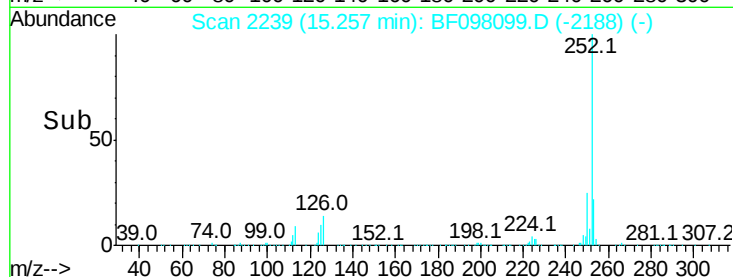
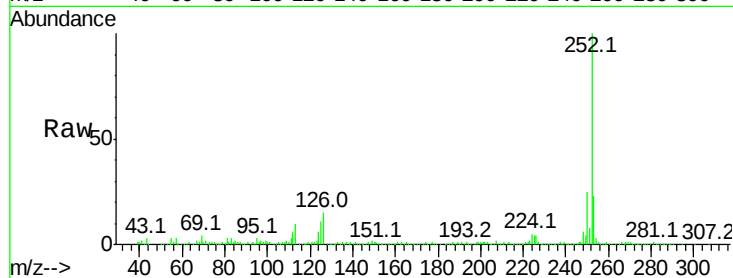
Tot Ion:252 Resp: 254653

Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

125 10.8 11.0 16.4#



#90

Dibenzo(a,h)anthracene

Concen: 2.638 ng m

RT: 16.70 min Scan# 2484

Delta R.T. -0.01 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

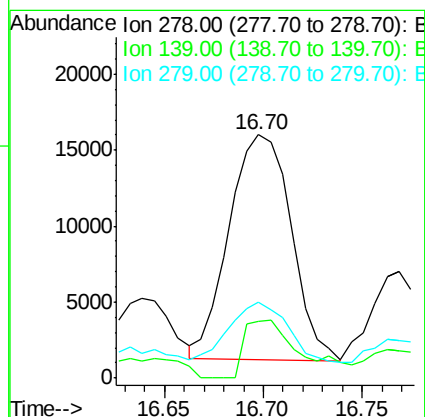
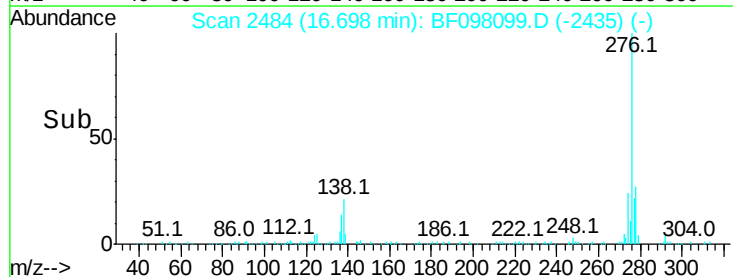
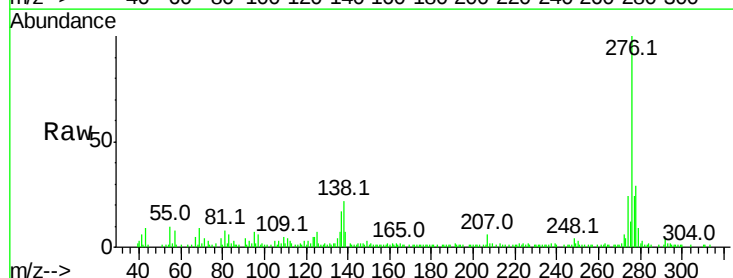
Tgt Ion:278 Resp: 32059

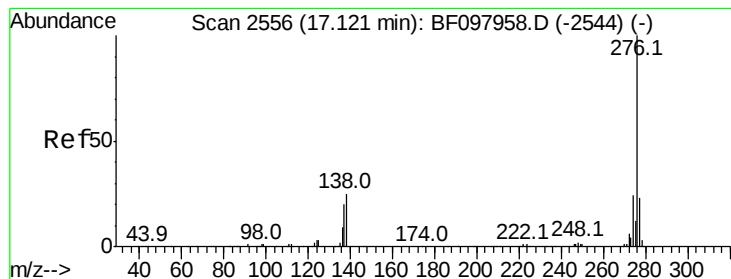
Ion Ratio Lower Upper

278 100

139 23.3 16.6 24.8

279 31.2 19.3 28.9#





#91

Benzo(a,h,i)perylene

Concen: 8.884 ng

RT: 17.11 min Scan# 2554

Delta R.T. 0.00 min

Lab File: BF098099.D

Acq: 29 Aug 2017 7:02

Instrument :

BNA_F

ClientSampleId :

SB-13-COMP

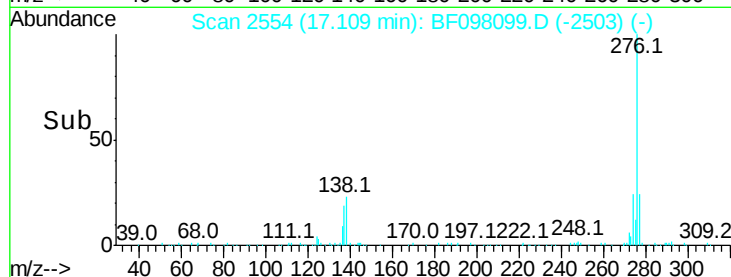
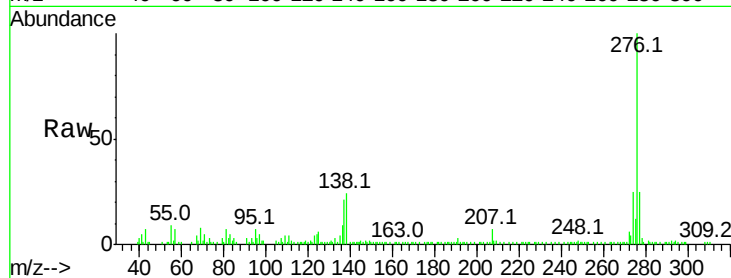
Tot Ion:276 Resp: 112636

Ion Ratio Lower Upper

276 100

277 24.9 18.6 28.0

138 24.5 25.4 38.0#



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

