

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071118\
 Data File : BF107301.D
 Acq On : 11 Jul 2018 15:45
 Operator : JU/SJ
 Sample : J3933-03 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP-3-6

Quant Time: Jul 11 16:17:34 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 29 14:38:29 2018
 Response via : Initial Calibration

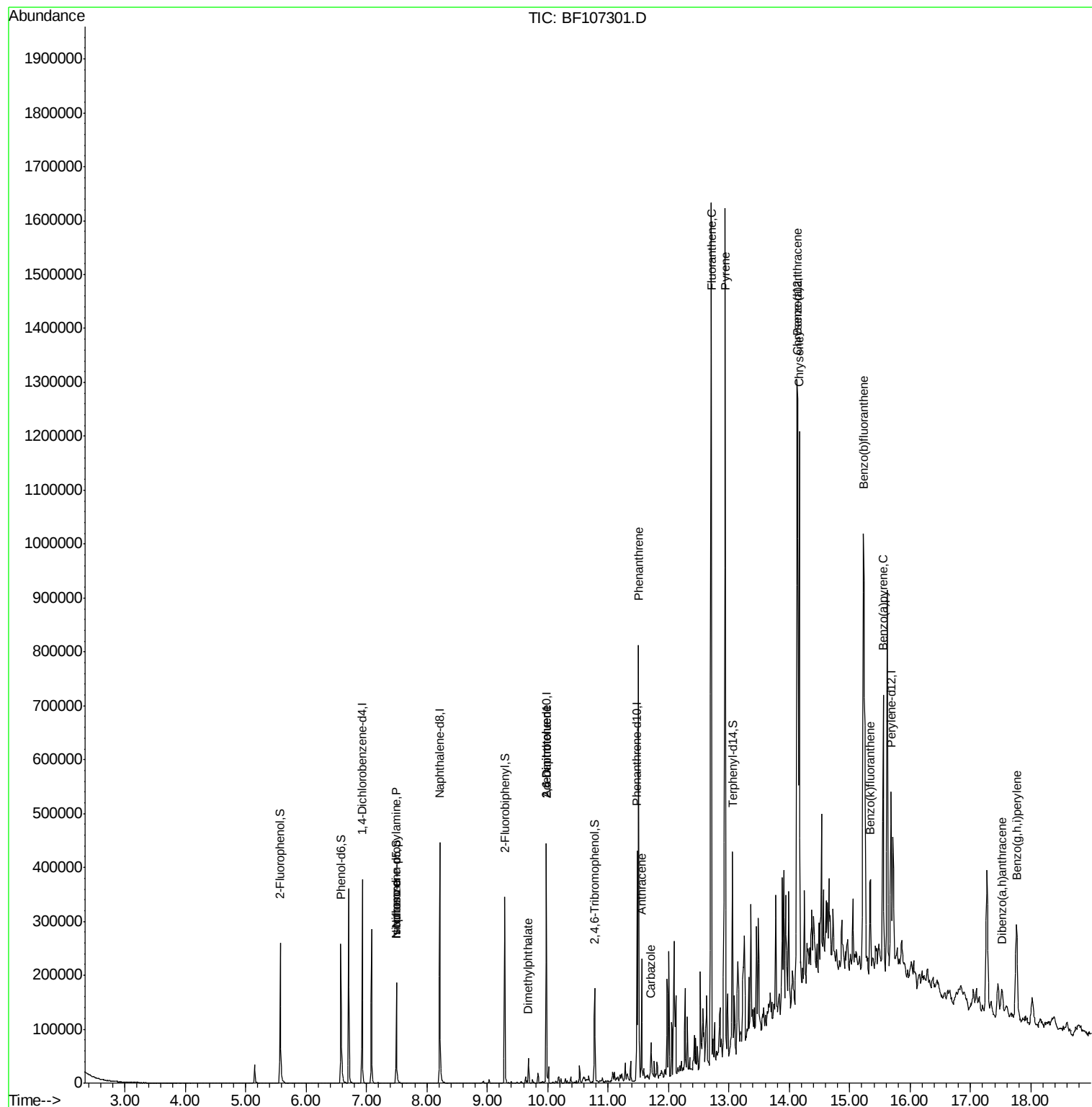
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	58122	20.00	ng	-0.03
21) Naphthalene-d8	8.21	136	209363	20.00	ng	-0.04
38) Acenaphthene-d10	9.98	164	87100	20.00	ng	-0.03
63) Phenanthrene-d10	11.48	188	151804	20.00	ng	-0.02
75) Chrysene-d12	14.14	240	179618	20.00	ng	-0.02
86) Perylene-d12	15.68	264	172211	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	89411	26.05	ng	-0.03
7) Phenol-d6	6.58	99	110516	25.78	ng	-0.04
23) Nitrobenzene-d5	7.50	82	64907	17.23	ng	-0.04
41) 2,4,6-Tribromophenol	10.78	330	22041	21.83	ng	-0.02
44) 2-Fluorobiphenyl	9.29	172	109999	8.02	ng	-0.03
78) Terphenyl-d14	13.06	244	112369	15.15	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.50	70	8118	2.873	ng	# 74
25) Isophorone	7.50	82	64907	9.777	ng	# 64
49) Dimethylphthalate	9.68	163	19538	2.991	ng	# 99
50) 2,6-Dinitrotoluene	9.98	165	10924	7.897	ng	# 24
56) 2,4-Dinitrotoluene	9.98	165	10924	6.050	ng	# 21
70) Phenanthrene	11.50	178	295361	40.340	ng	100
71) Anthracene	11.55	178	81103	10.852	ng	97
72) Carbazole	11.71	167	22973	3.283	ng	# 97
74) Fluoranthene	12.71	202	701742	86.956	ng	95
77) Pyrene	12.94	202	748314	63.178	ng	100
80) Benzo(a)anthracene	14.13	228	526618	48.105	ng	99
82) Chrysene	14.17	228	448935	44.575	ng	98
87) Benzo(b)fluoranthene	15.23	252	749280	70.042	ng	96
88) Benzo(k)fluoranthene	15.34	252	89684	8.803	ng	93
89) Benzo(a)pyrene	15.55	252	277851	29.217	ng	98
90) Dibenzo(a,h)anthracene	17.52	278	23790	2.952	ng	96
91) Benzo(g,h,i)perylene	17.76	276	166938	21.191	ng	# 89

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

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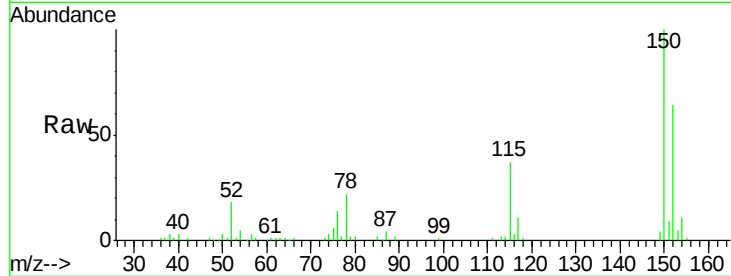


#1

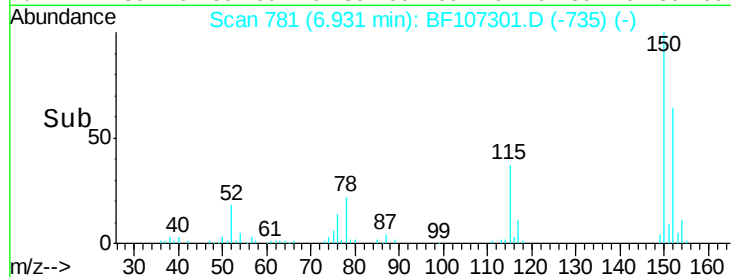
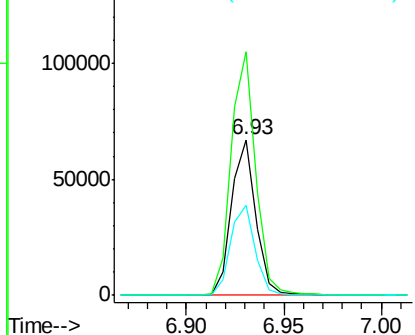
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.93 min Scan# 781
Delta R.T. -0.03 min
Lab File: BF107301.D
Acq: 11 Jul 2018 15:45

Instrument :
BNA_F
ClientSampleId :
EP-3-6

Tgt Ion:152 Resp: 58122
Ion Ratio Lower Upper
152 100
150 156.6 124.6 186.8
115 58.2 50.1 75.1



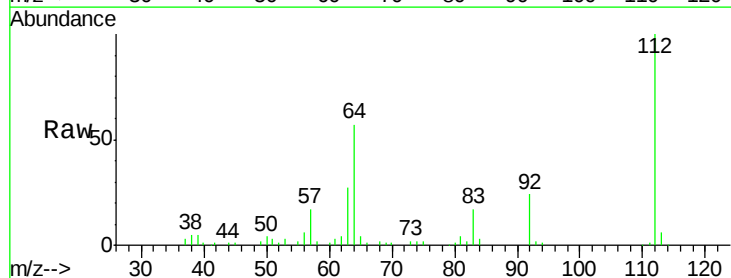
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



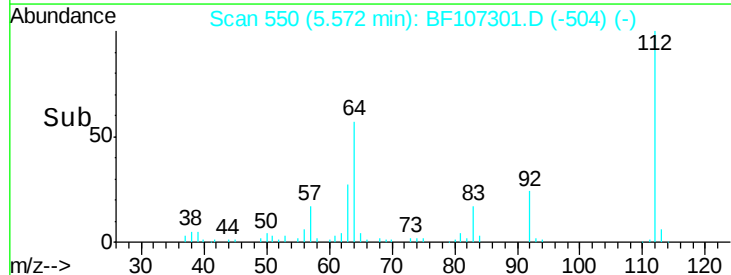
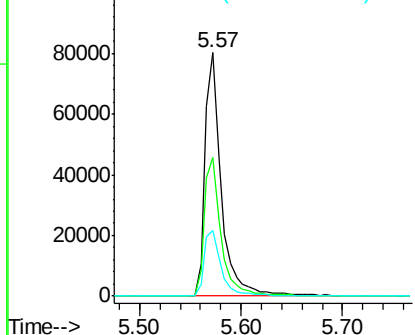
#5

2-Fluorophenol
Concen: 26.049 ng
RT: 5.57 min Scan# 550
Delta R.T. -0.03 min
Lab File: BF107301.D
Acq: 11 Jul 2018 15:45

Tgt Ion:112 Resp: 89411
Ion Ratio Lower Upper
112 100
64 57.1 47.9 71.9
63 26.8 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 25.783 ng

RT: 6.58 min Scan# 721

Delta R.T. -0.04 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6

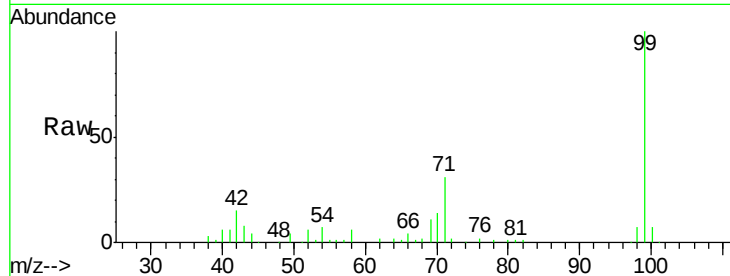
Tgt Ion: 99 Resp: 110516

Ion Ratio Lower Upper

99 100

42 15.4 14.5 21.7

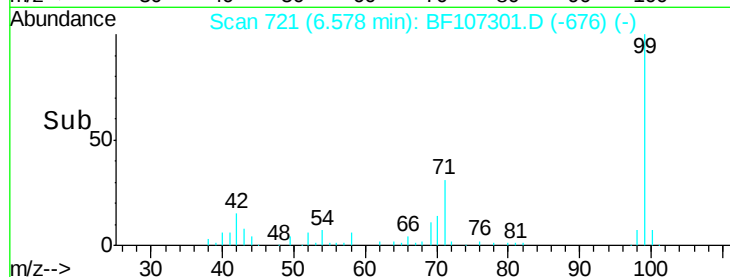
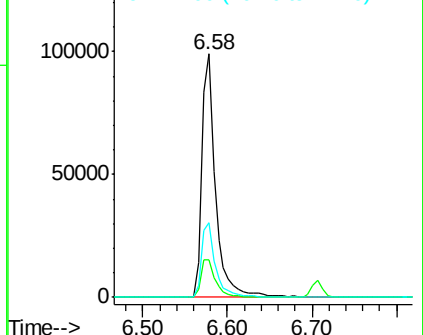
71 30.7 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.873 ng

RT: 7.50 min Scan# 877

Delta R.T. 0.11 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Tgt Ion: 70 Resp: 8118

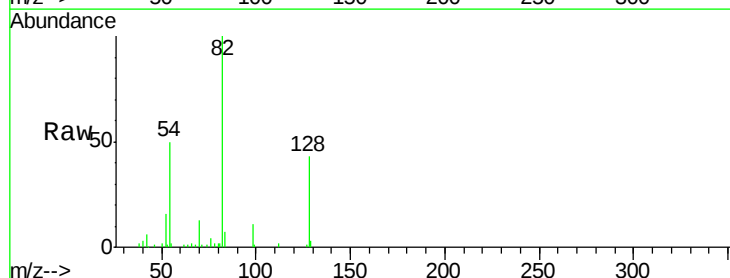
Ion Ratio Lower Upper

70 100

42 45.2 47.5 71.3#

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

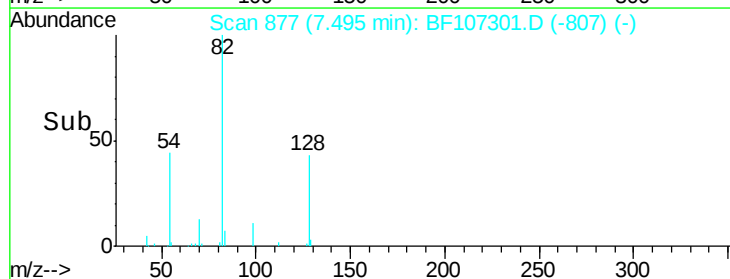
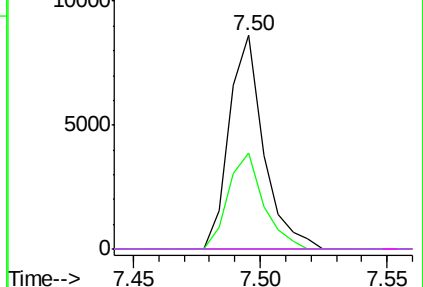


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

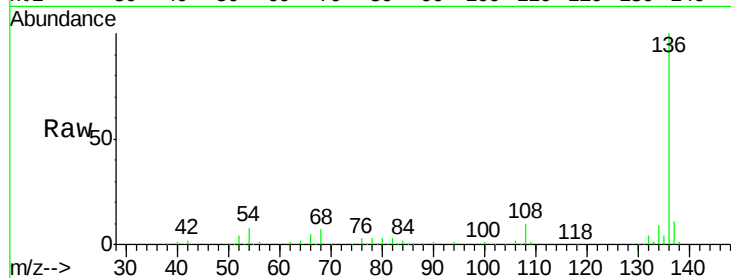




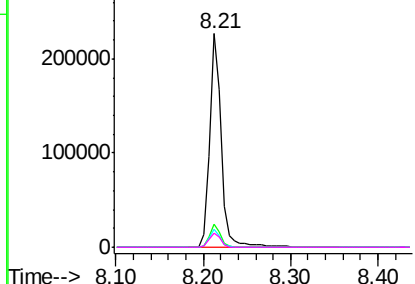
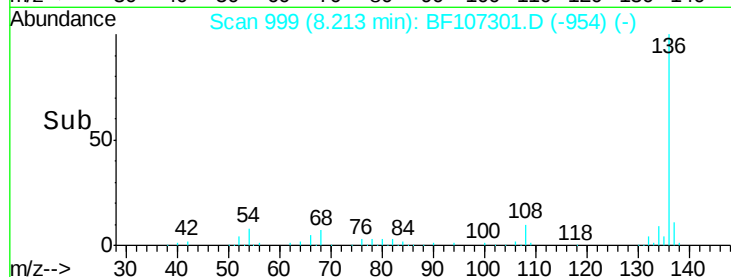
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.21 min Scan# 999
Delta R.T. -0.04 min
Lab File: BF107301.D
Acq: 11 Jul 2018 15:45

Instrument :
BNA_F
ClientSampleId :
EP-3-6

Tgt Ion:	136	Resp:	209363
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.9	13.3
54	8.2	6.6	9.8
68	6.5	5.0	7.4

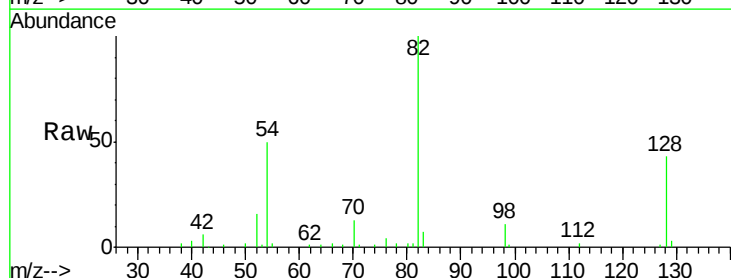


Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

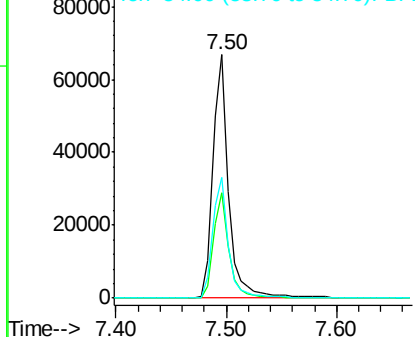
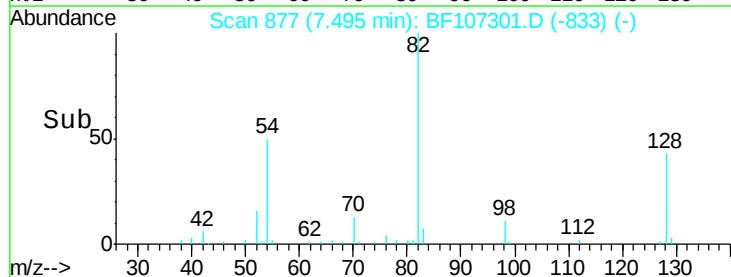


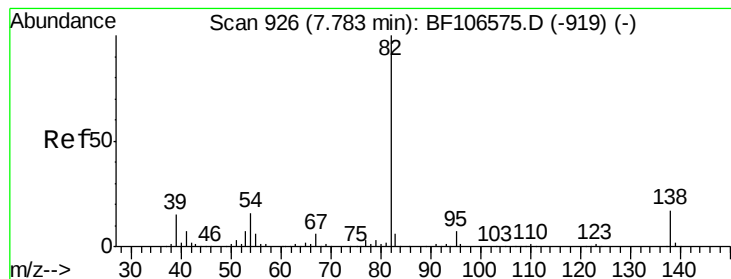
#23
Nitrobenzene-d5
Concen: 17.229 ng
RT: 7.50 min Scan# 877
Delta R.T. -0.04 min
Lab File: BF107301.D
Acq: 11 Jul 2018 15:45

Tgt Ion:	82	Resp:	64907
Ion	Ratio	Lower	Upper
82	100		
128	43.3	36.1	54.1
54	49.6	41.4	62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): B
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 9.777 ng

RT: 7.50 min Scan# 877

Delta R.T. -0.29 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6

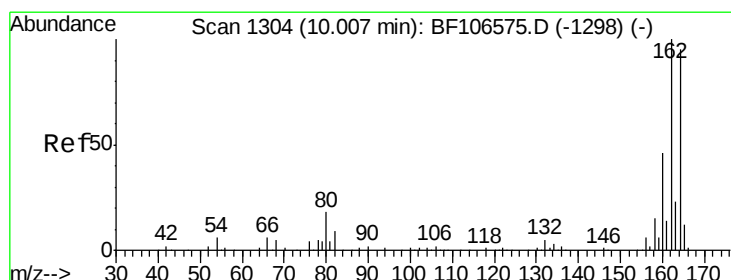
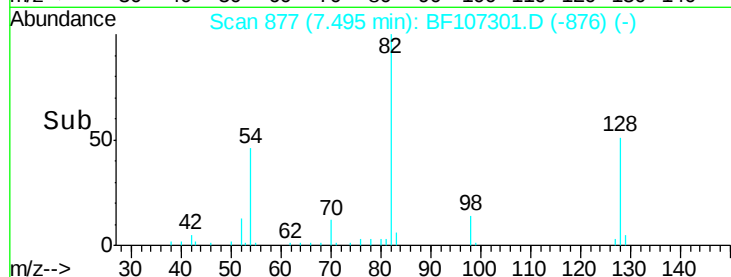
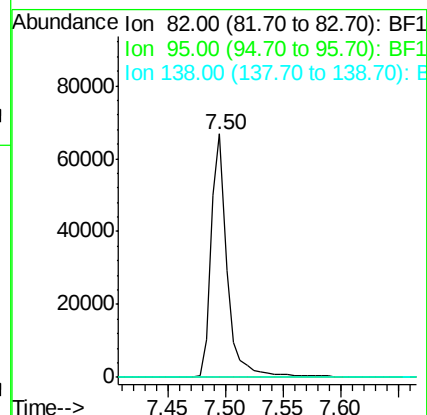
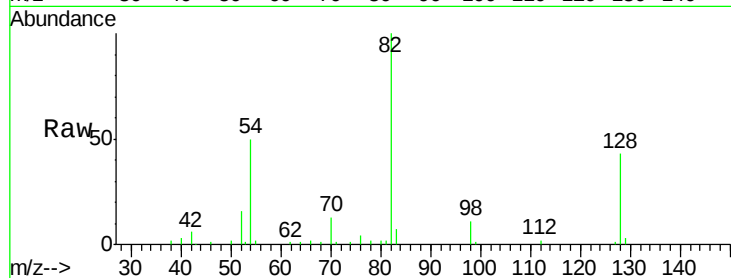
Tgt Ion: 82 Resp: 64907

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.98 min Scan# 1299

Delta R.T. -0.03 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

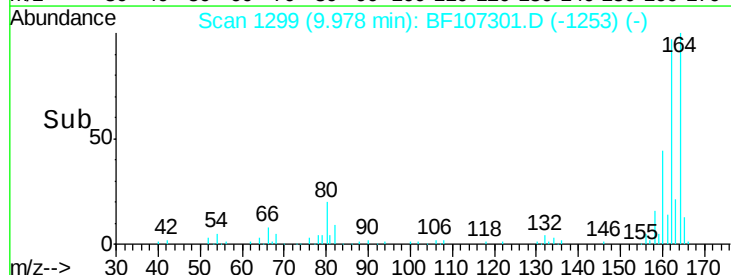
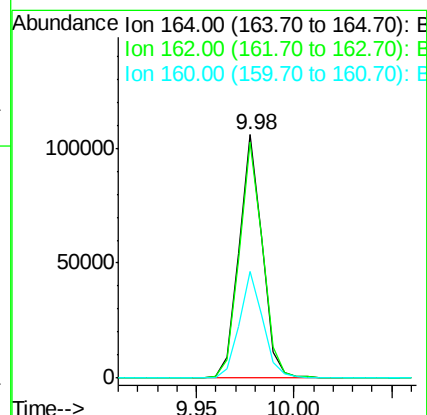
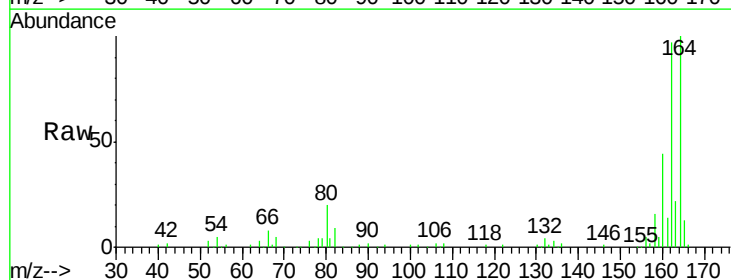
Tgt Ion: 164 Resp: 87100

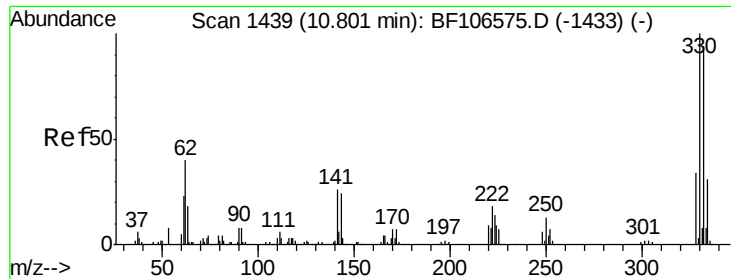
Ion Ratio Lower Upper

164 100

162 96.9 86.1 129.1

160 43.9 38.3 57.5

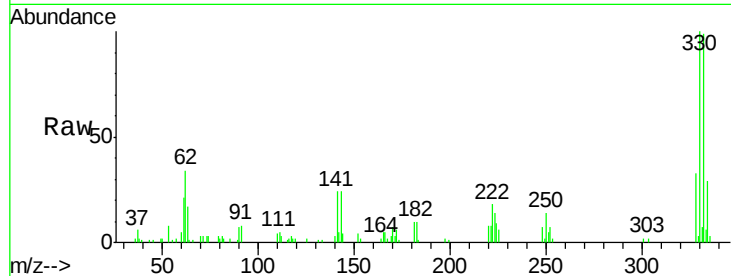




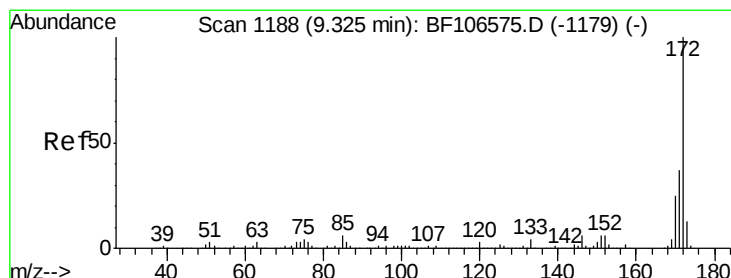
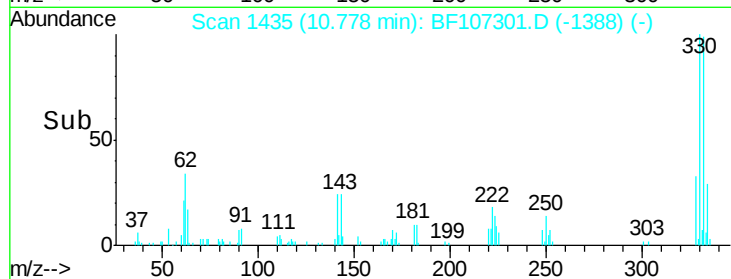
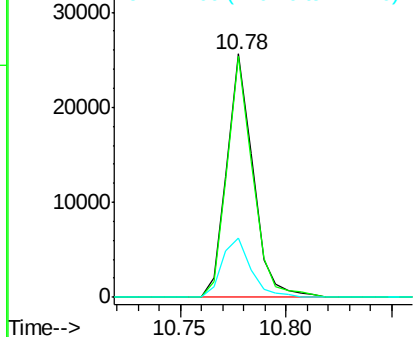
#41
 2,4,6-Tribromophenol
 Concen: 21.833 ng
 RT: 10.78 min Scan# 1435
 Delta R.T. -0.02 min
 Lab File: BF107301.D
 Acq: 11 Jul 2018 15:45

Instrument :
 BNA_F
 ClientSampleId :
 EP-3-6

Tgt Ion:330 Resp: 22041
 Ion Ratio Lower Upper
 330 100
 332 96.9 77.0 115.6
 141 26.8 29.9 44.9#

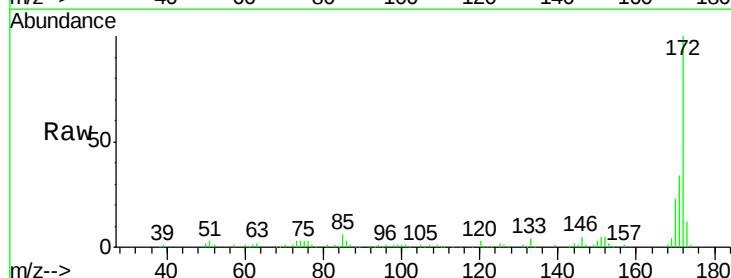


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

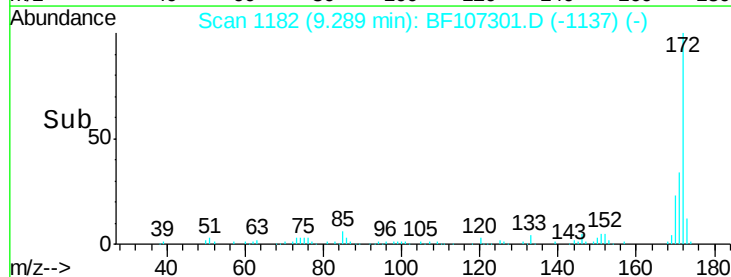
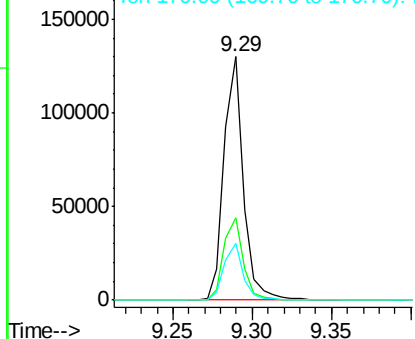


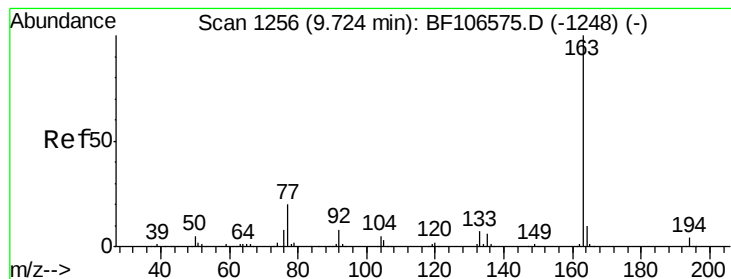
#44
 2-Fluorobiphenyl
 Concen: 8.016 ng
 RT: 9.29 min Scan# 1182
 Delta R.T. -0.03 min
 Lab File: BF107301.D
 Acq: 11 Jul 2018 15:45

Tgt Ion:172 Resp: 109999
 Ion Ratio Lower Upper
 172 100
 171 33.8 29.7 44.5
 170 23.3 19.6 29.4



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: 2.991 ng

RT: 9.68 min Scan# 1249

Delta R.T. -0.04 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6

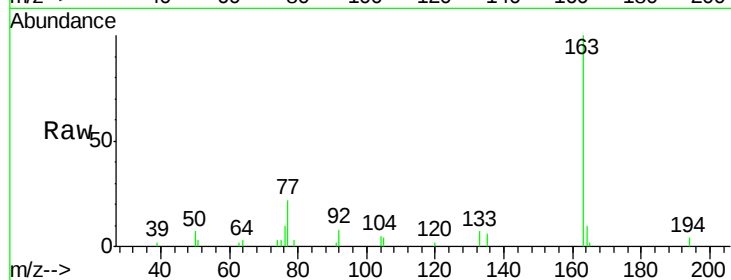
Tgt Ion:163 Resp: 19538

Ion Ratio Lower Upper

163 100

194 4.1 2.7 4.1#

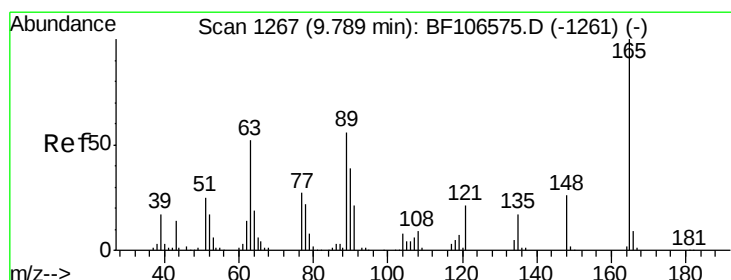
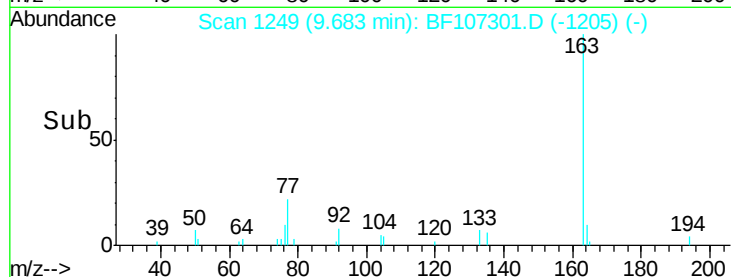
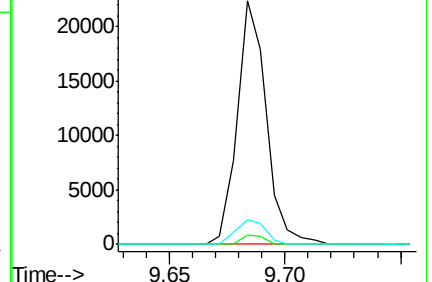
164 10.1 8.2 12.2



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



#50

2,6-Dinitrotoluene

Concen: 7.897 ng

RT: 9.98 min Scan# 1299

Delta R.T. 0.18 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

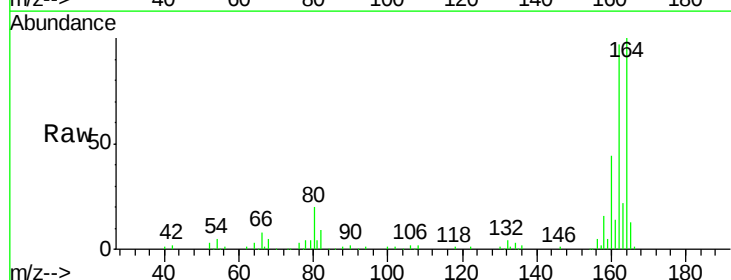
Tgt Ion:165 Resp: 10924

Ion Ratio Lower Upper

165 100

63 0.0 44.7 67.1#

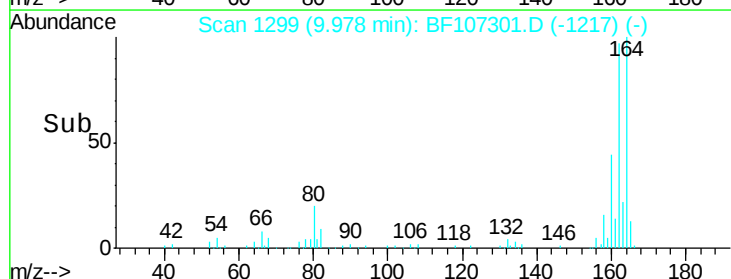
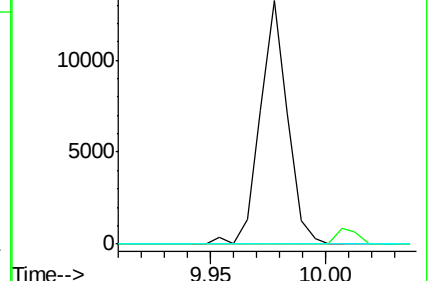
89 0.0 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

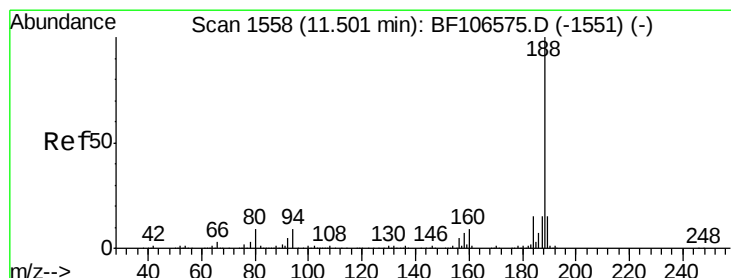
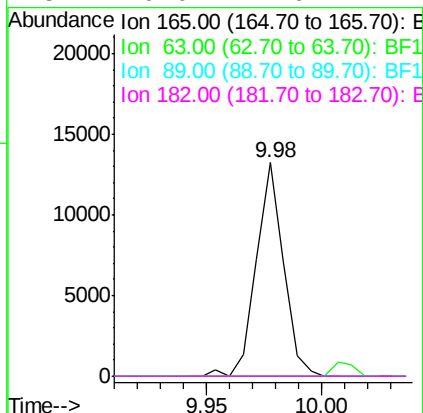
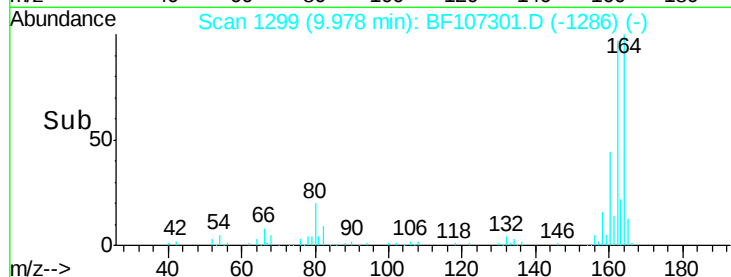
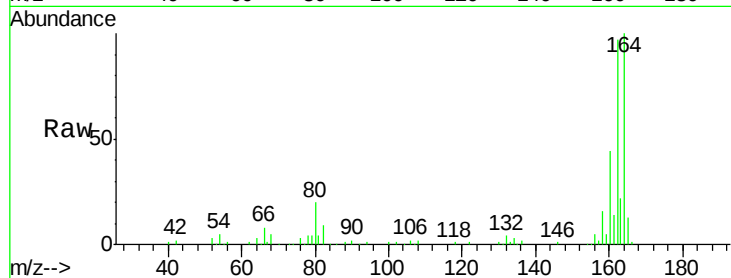




#56
2,4-Dinitrotoluene
Concen: 6.050 ng
RT: 9.98 min Scan# 1299
Delta R.T. -0.22 min
Lab File: BF107301.D
Acq: 11 Jul 2018 15:45

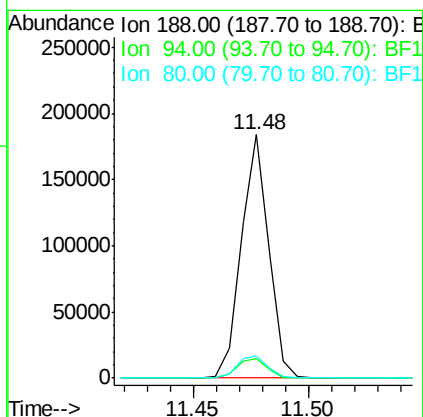
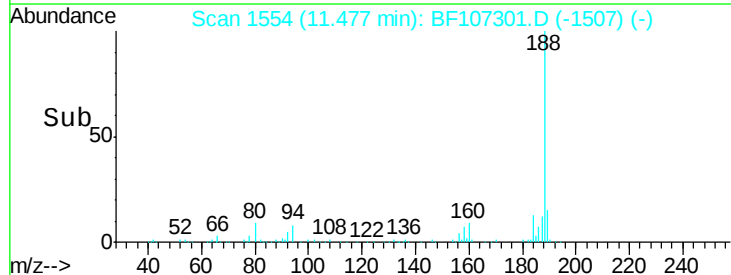
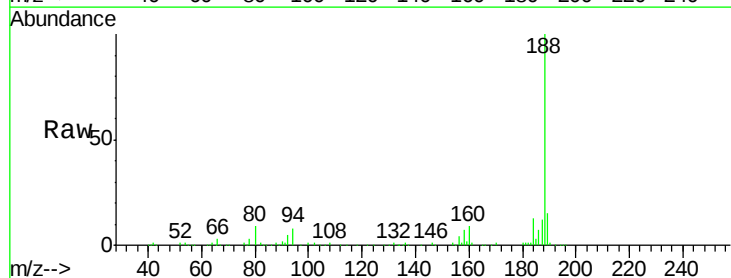
Instrument :
BNA_F
ClientSampleId :
EP-3-6

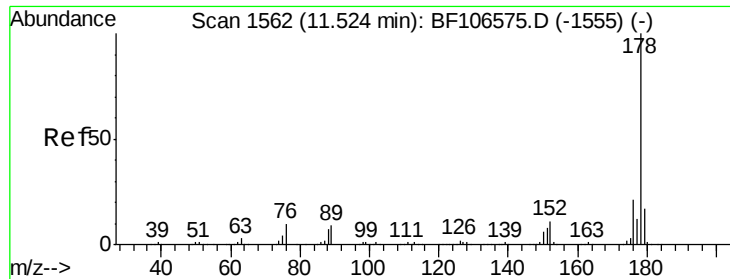
Tgt Ion:	165	Resp:	10924
Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.4	54.6#
89	0.0	57.8	86.6#
182	0.0	1.6	2.4#



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.48 min Scan# 1554
Delta R.T. -0.02 min
Lab File: BF107301.D
Acq: 11 Jul 2018 15:45

Tgt Ion:	188	Resp:	151804
Ion	Ratio	Lower	Upper
188	100		
94	8.3	8.5	12.7#
80	9.2	9.2	13.8





#70

Phenanthrene

Concen: 40.340 ng

RT: 11.50 min Scan# 1558

Delta R.T. -0.02 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6

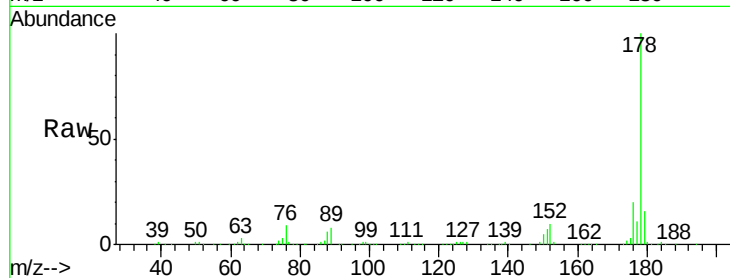
Tgt Ion:178 Resp: 295361

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

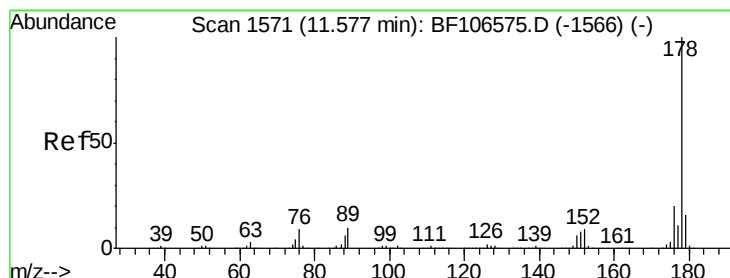
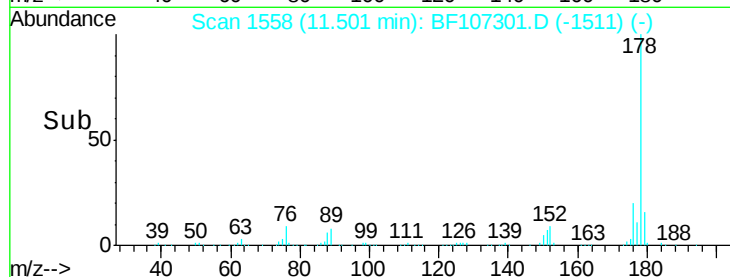
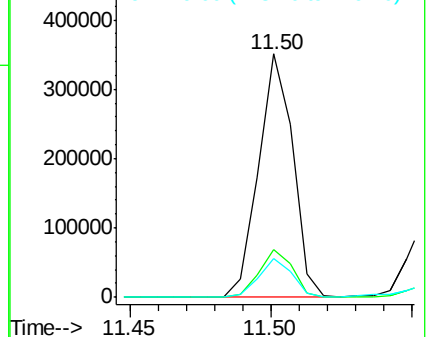
179 15.9 13.0 19.6



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: 10.852 ng

RT: 11.55 min Scan# 1567

Delta R.T. -0.02 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

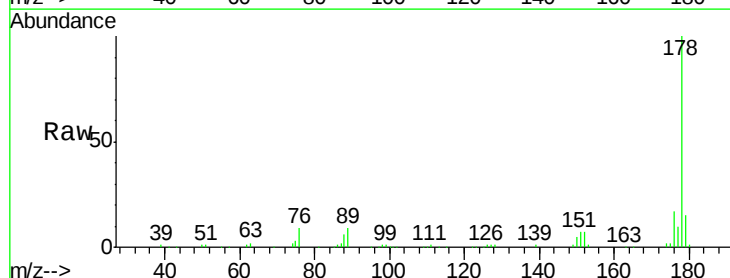
Tgt Ion:178 Resp: 81103

Ion Ratio Lower Upper

178 100

176 17.3 15.4 23.2

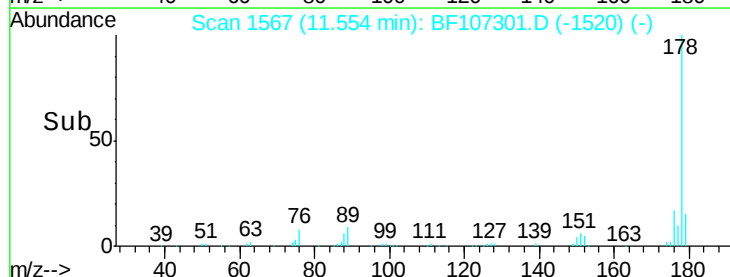
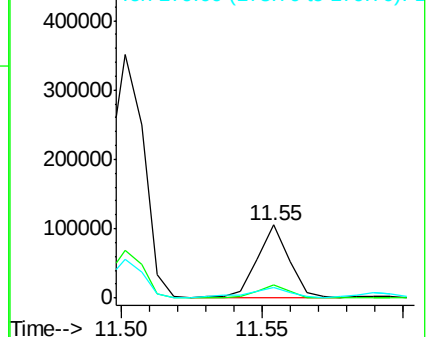
179 15.1 12.6 19.0

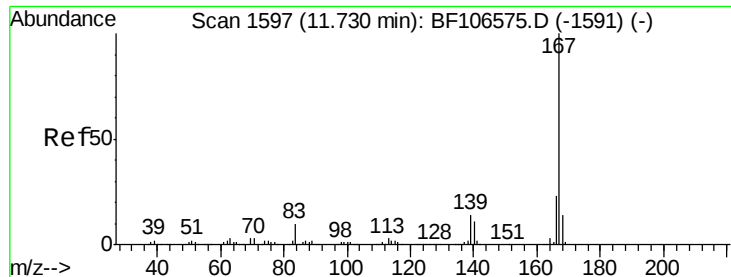


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.283 ng

RT: 11.71 min Scan# 1594

Delta R.T. -0.02 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6

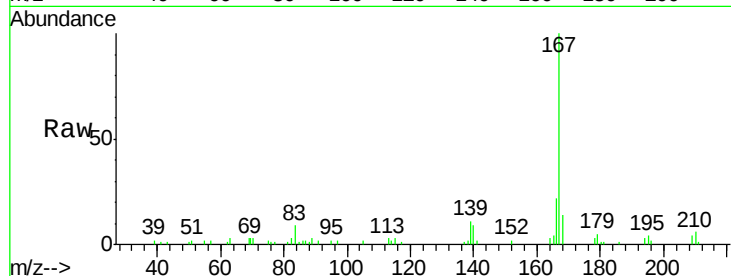
Tgt Ion:167 Resp: 22973

Ion Ratio Lower Upper

167 100

166 21.9 17.6 26.4

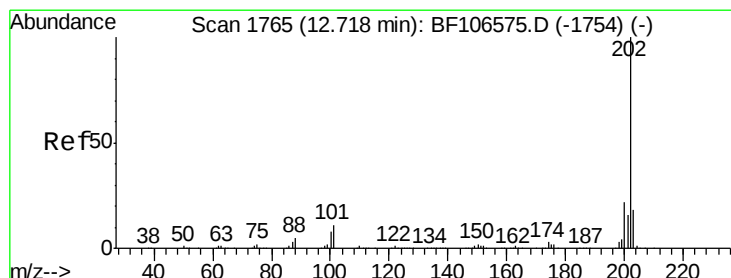
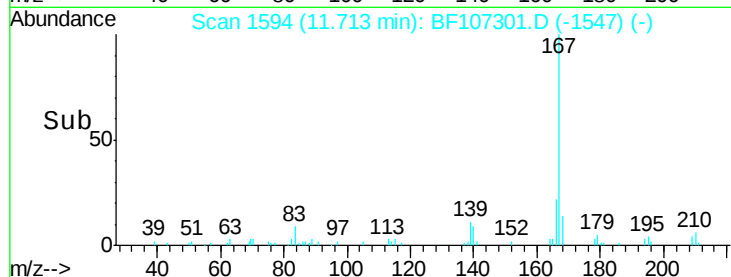
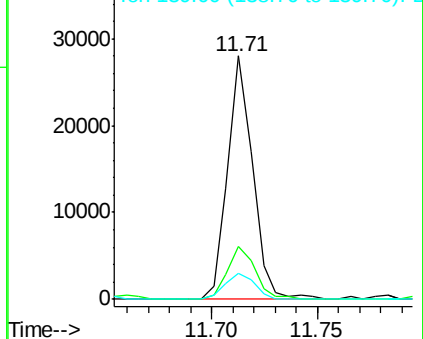
139 10.8 10.9 16.3#



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: 86.956 ng

RT: 12.71 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

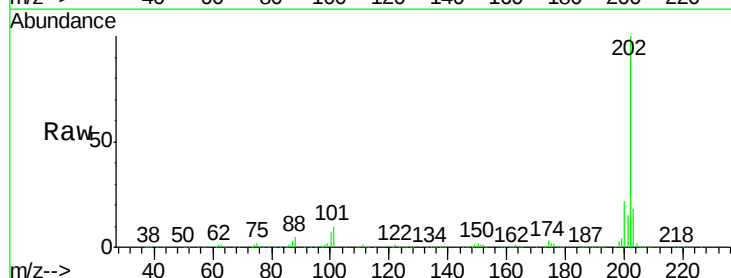
Tgt Ion:202 Resp: 701742

Ion Ratio Lower Upper

202 100

101 10.1 0.0 34.1

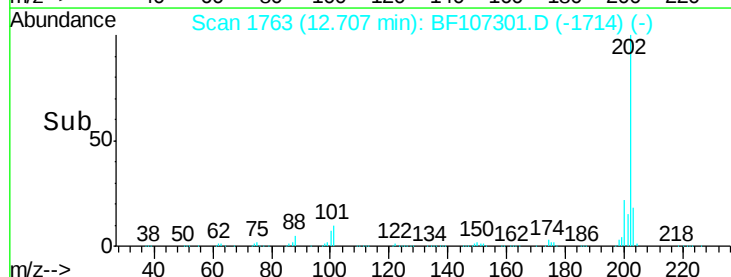
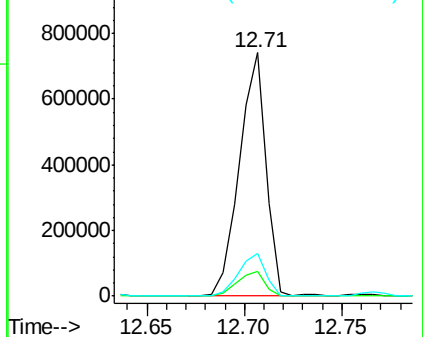
203 17.8 0.0 38.1

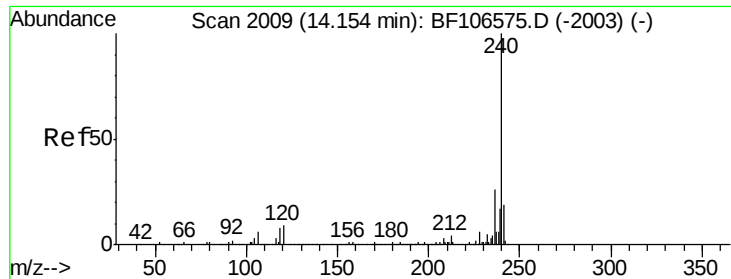


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.02 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampled :

EP-3-6

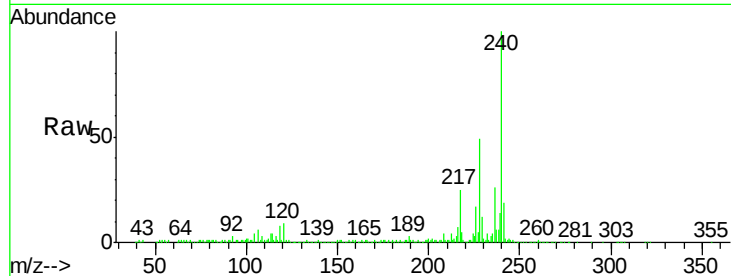
Tgt Ion:240 Resp: 179618

Ion Ratio Lower Upper

240 100

120 9.3 9.5 14.3#

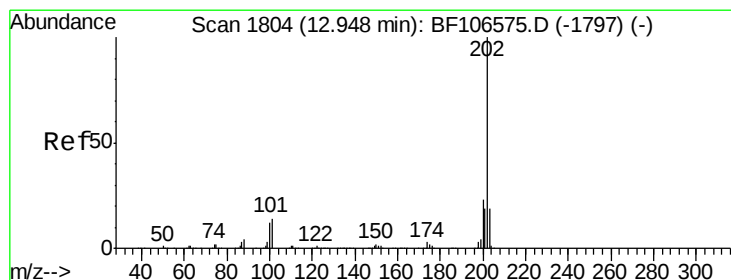
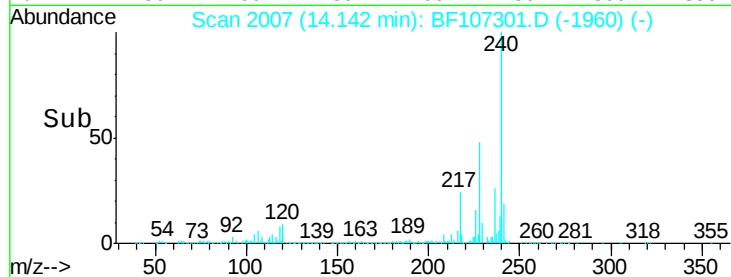
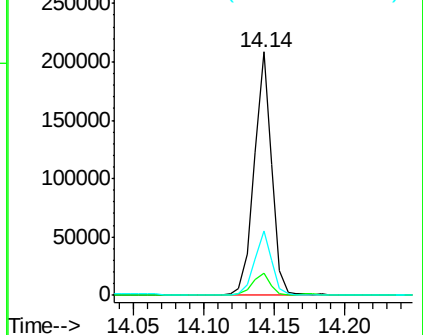
236 26.3 20.7 31.1



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: 63.178 ng

RT: 12.94 min Scan# 1802

Delta R.T. -0.01 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

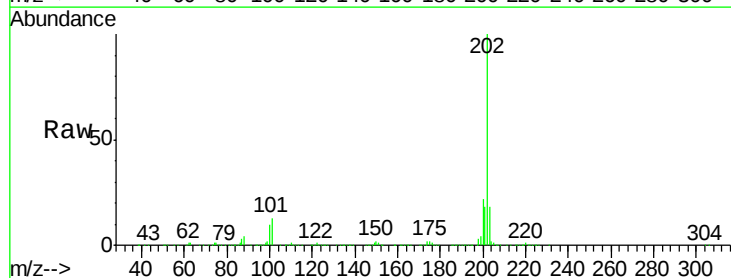
Tgt Ion:202 Resp: 748314

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

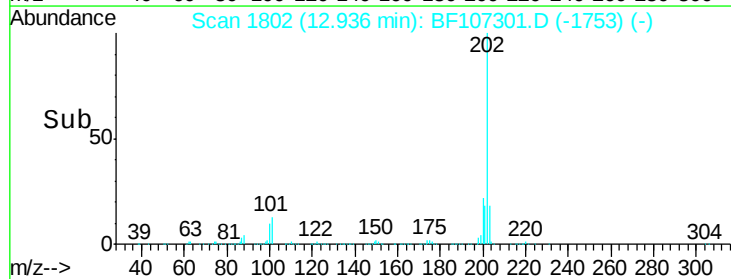
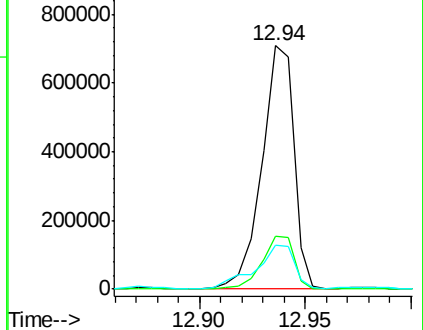
203 18.1 14.3 21.5

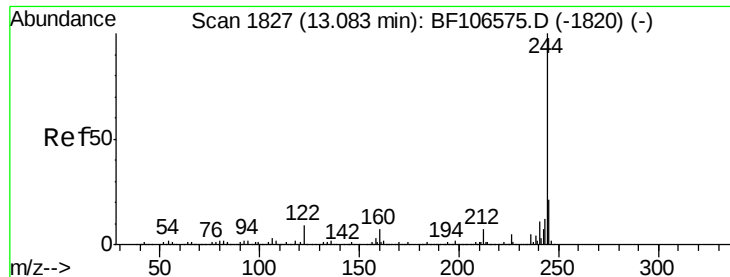


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 15.154 ng

RT: 13.06 min Scan# 1823

Delta R.T. -0.02 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6

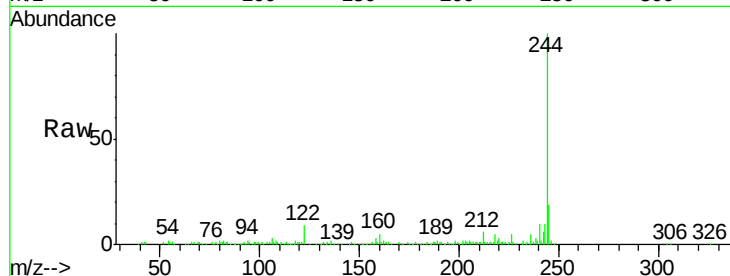
Tgt Ion:244 Resp: 112369

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.0

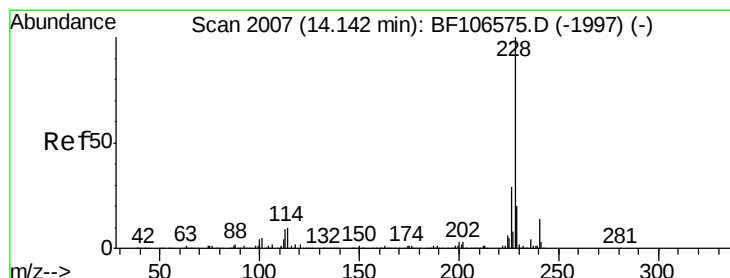
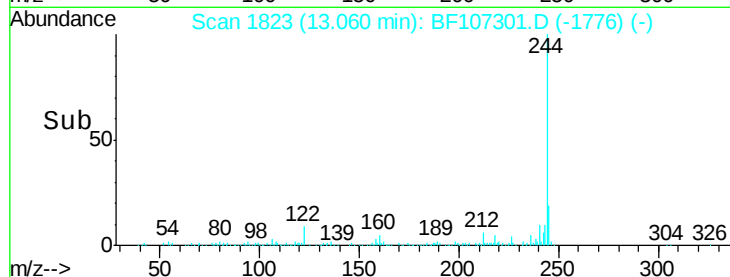
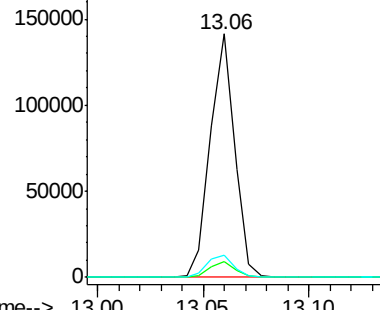
122 9.0 11.0 16.4#



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: 48.105 ng

RT: 14.13 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

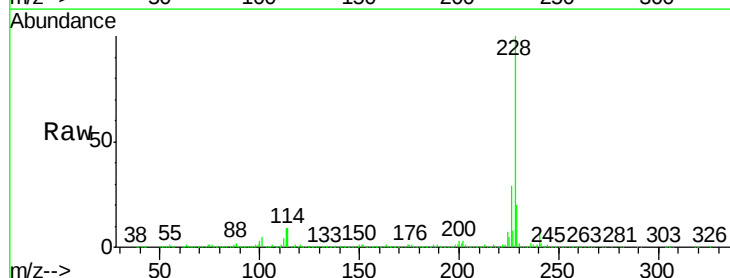
Tgt Ion:228 Resp: 526618

Ion Ratio Lower Upper

228 100

226 28.8 22.6 33.8

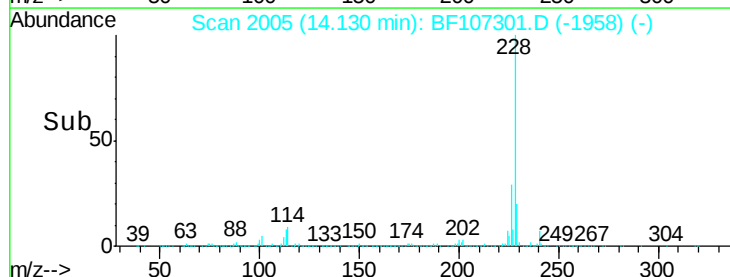
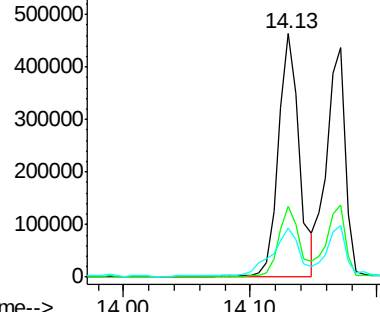
229 20.4 15.8 23.6

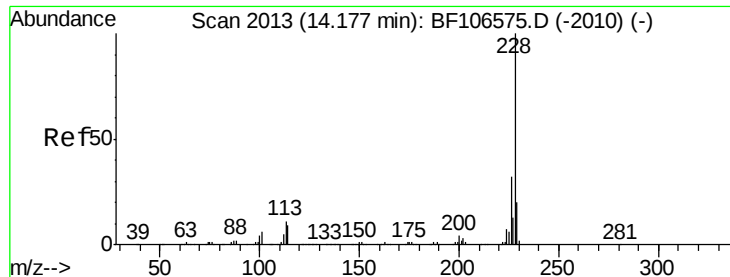


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 44.575 ng

RT: 14.17 min Scan# 2012

Delta R.T. -0.02 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6

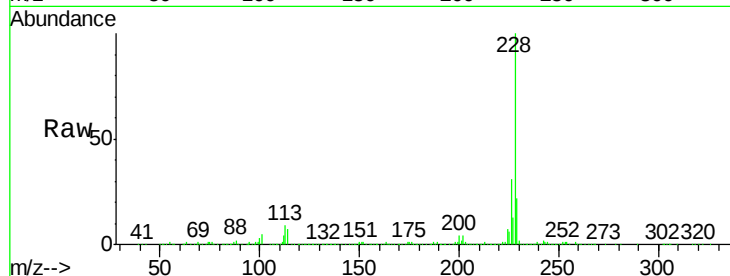
Tgt Ion:228 Resp: 448935

Ion Ratio Lower Upper

228 100

226 31.2 25.0 37.6

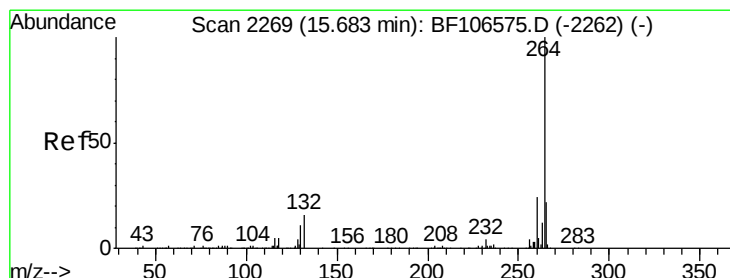
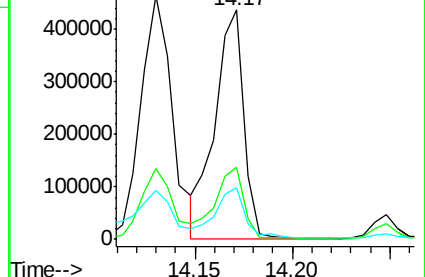
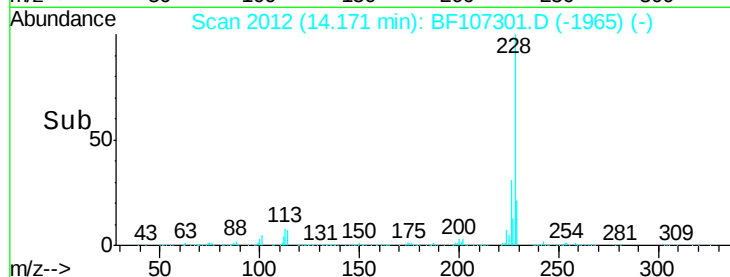
229 22.3 16.2 24.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.68 min Scan# 2269

Delta R.T. -0.04 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

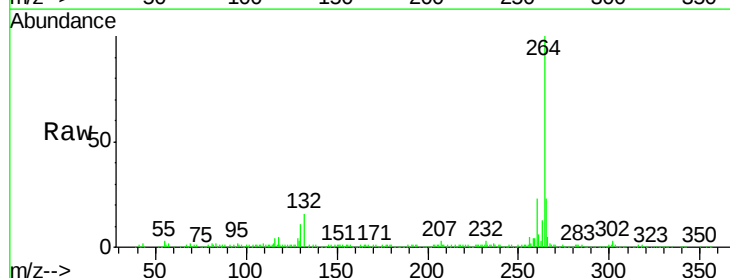
Tgt Ion:264 Resp: 172211

Ion Ratio Lower Upper

264 100

260 23.3 19.2 28.8

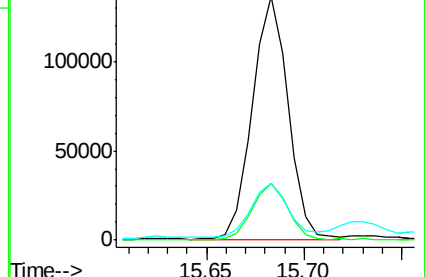
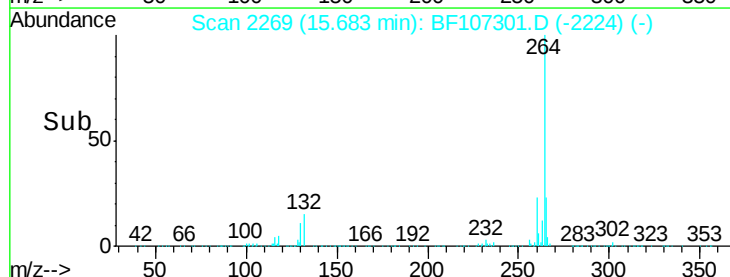
265 23.3 17.5 26.3

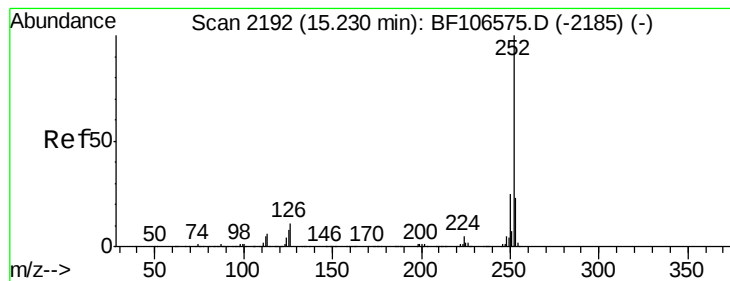


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 70.042 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.03 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6

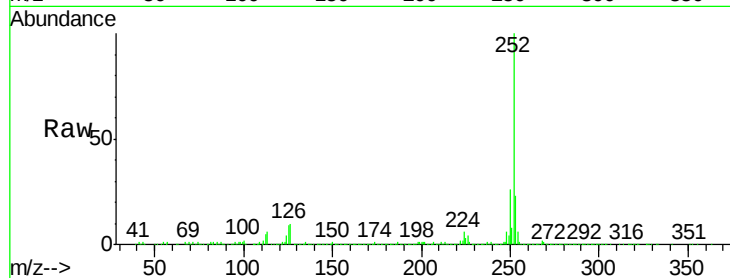
Tgt Ion:252 Resp: 749280

Ion Ratio Lower Upper

252 100

253 23.1 17.0 25.6

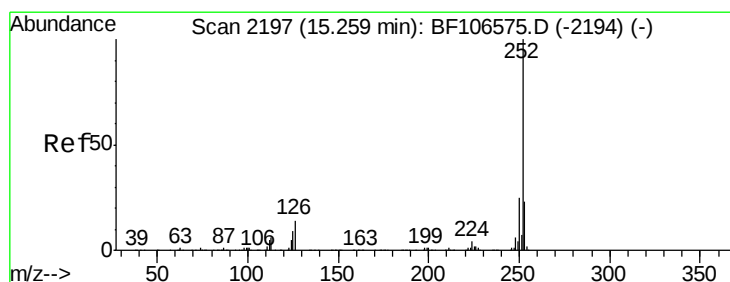
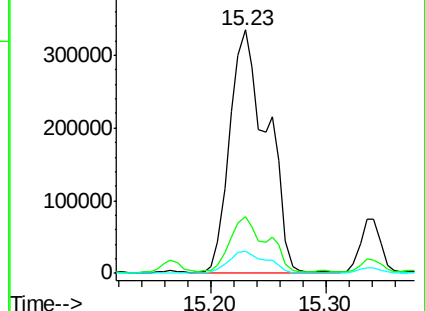
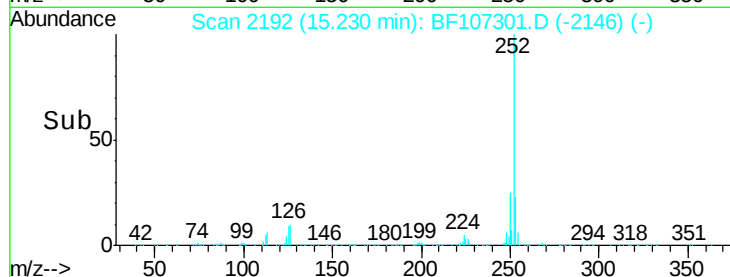
125 9.3 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 8.803 ng

RT: 15.34 min Scan# 2210

Delta R.T. 0.04 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

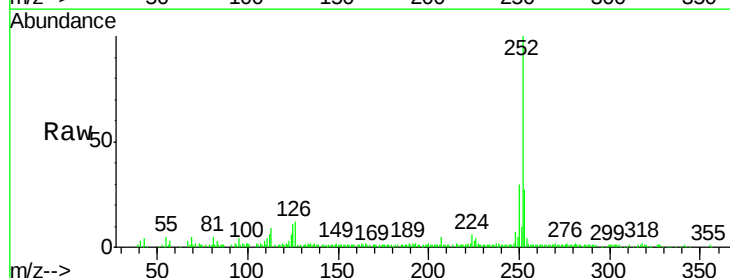
Tgt Ion:252 Resp: 89684

Ion Ratio Lower Upper

252 100

253 26.8 17.9 26.9

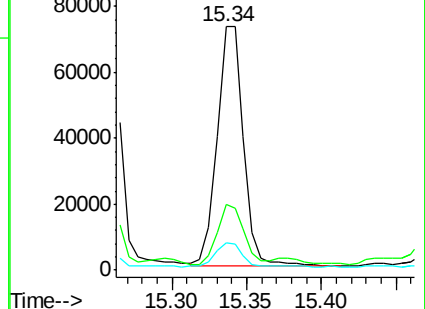
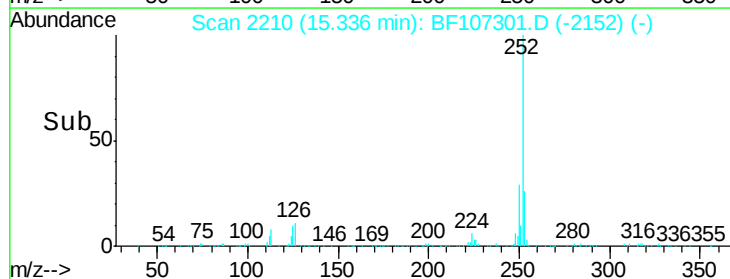
125 11.3 10.2 15.2

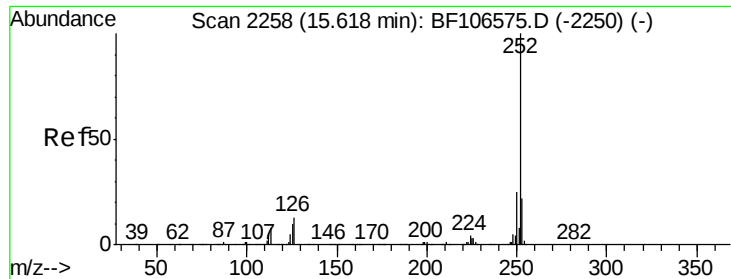


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 29.217 ng

RT: 15.55 min Scan# 2247

Delta R.T. -0.10 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6

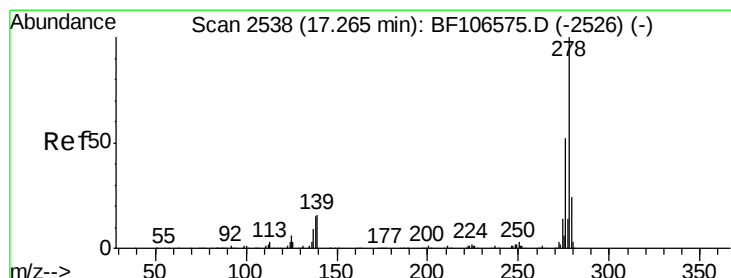
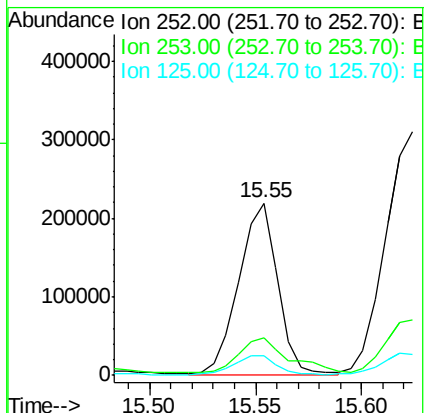
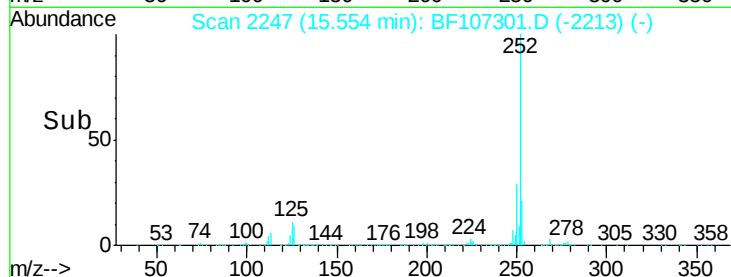
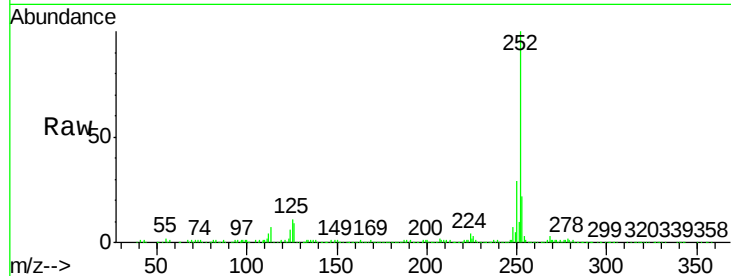
Tgt Ion:252 Resp: 277851

Ion Ratio Lower Upper

252 100

253 22.1 17.1 25.7

125 11.1 9.8 14.6



#90

Dibenzo(a,h)anthracene

Concen: 2.952 ng

RT: 17.52 min Scan# 2581

Delta R.T. 0.19 min

Lab File: BF107301.D

Acq: 11 Jul 2018 15:45

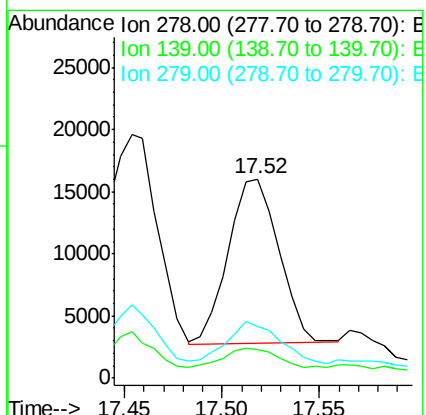
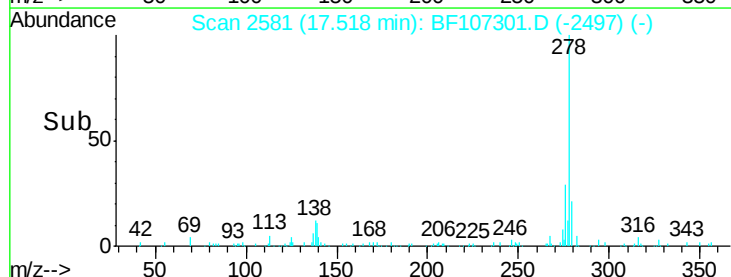
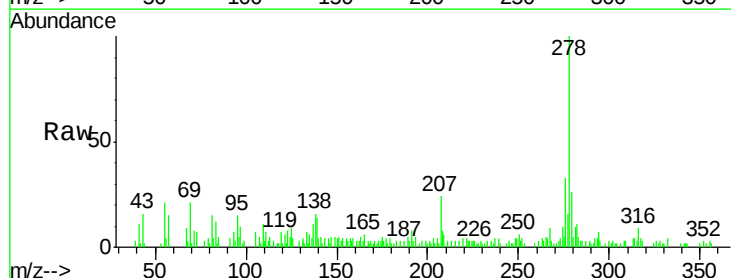
Tgt Ion:278 Resp: 23790

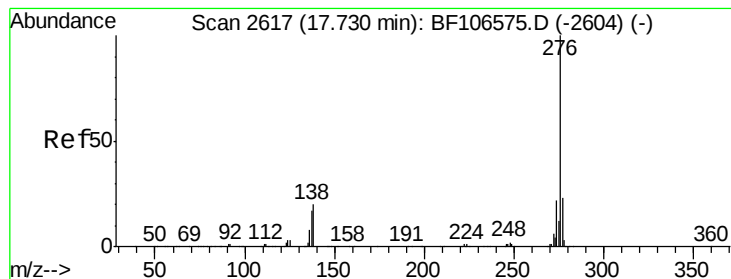
Ion Ratio Lower Upper

278 100

139 18.3 15.9 23.9

279 25.8 19.0 28.4





#91

Benzo(g,h,i)perylene

Concen: 21.191 ng

RT: 17.76 min Scan# 2622

Delta R.T. -0.03 min

Lab File: BF107301.D

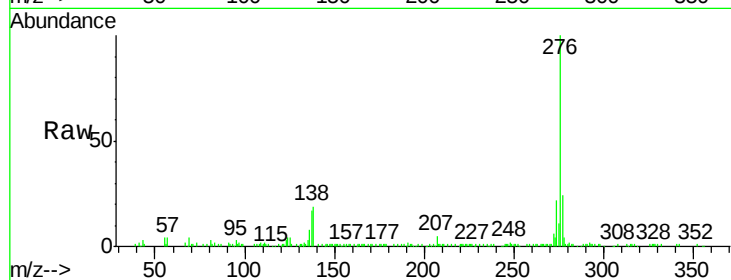
Acq: 11 Jul 2018 15:45

Instrument :

BNA_F

ClientSampleId :

EP-3-6



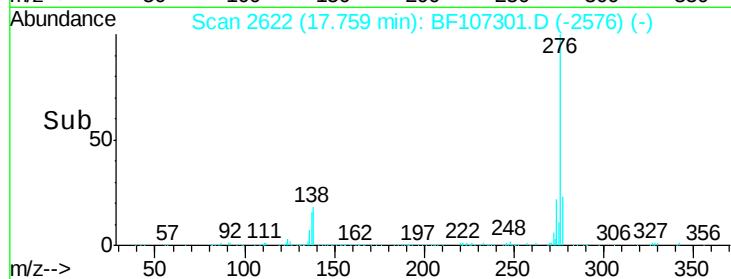
Tgt Ion: 276 Resp: 166938

Ion Ratio Lower Upper

276 100

277 24.2 17.9 26.9

138 18.6 21.8 32.8#



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

