

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071118\
 Data File : BF107303.D
 Acq On : 11 Jul 2018 16:38
 Operator : JU/SJ
 Sample : J3933-02DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP-2-4DL

Quant Time: Jul 11 17:31:17 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

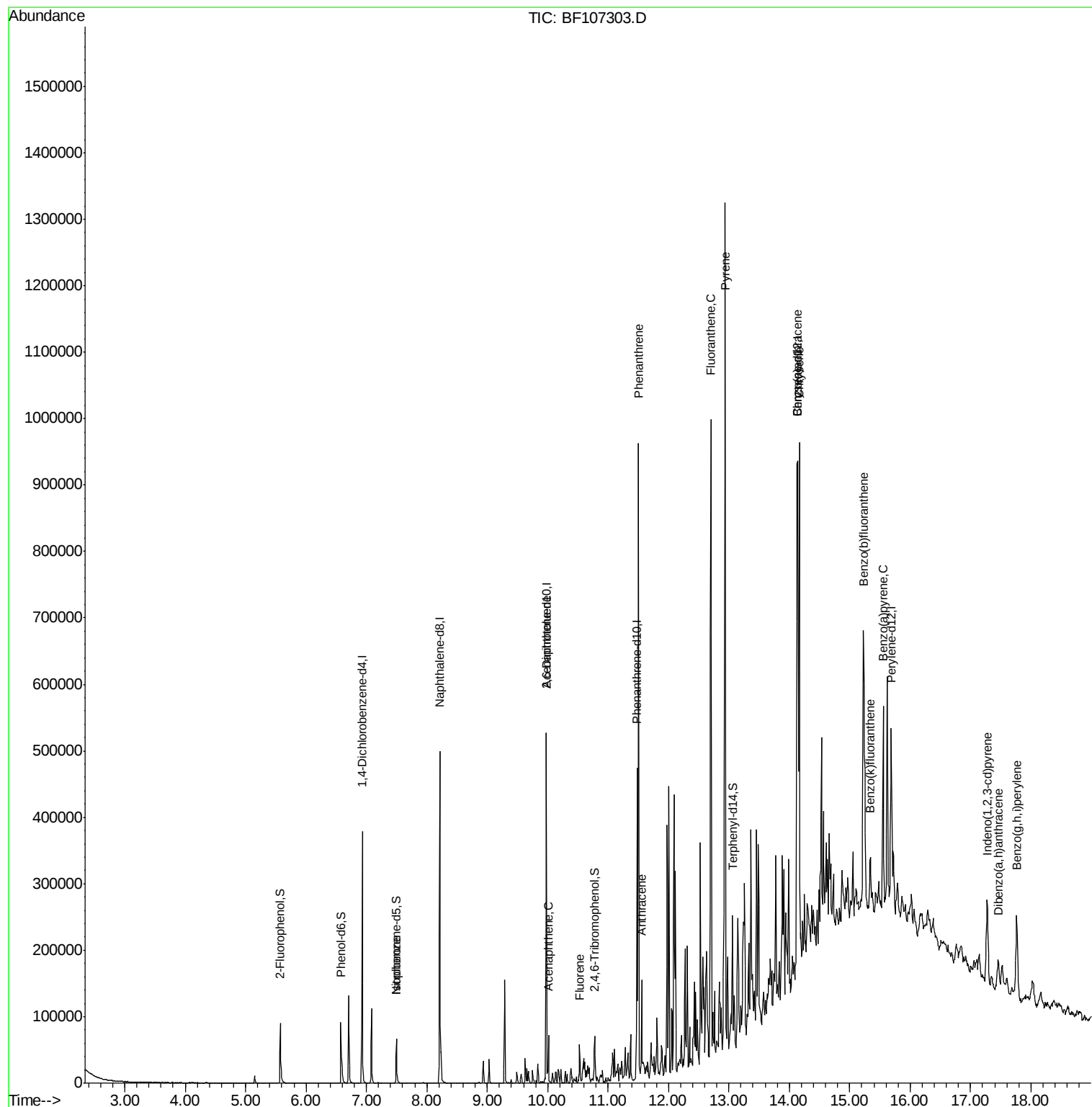
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	59708	20.00	ng	-0.03
21) Naphthalene-d8	8.21	136	228025	20.00	ng	-0.04
38) Acenaphthene-d10	9.98	164	101545	20.00	ng	-0.03
63) Phenanthrene-d10	11.48	188	173287	20.00	ng	-0.02
75) Chrysene-d12	14.14	240	187942	20.00	ng	-0.02
86) Perylene-d12	15.68	264	155518	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.57	112	33267	9.43	ng	-0.03
7) Phenol-d6	6.58	99	42424	9.63	ng	-0.04
23) Nitrobenzene-d5	7.50	82	25004	6.09	ng	-0.04
41) 2,4,6-Tribromophenol	10.78	330	8818	7.49	ng	-0.02
44) 2-Fluorobiphenyl	9.29	172	51979	-7.37	ng	-0.03
78) Terphenyl-d14	13.06	244	50643	6.53	ng	-0.02
Target Compounds						
25) Isophorone	7.50	82	25004	3.458	ng	Qvalue # 64
50) 2,6-Dinitrotoluene	9.98	165	13591	8.427	ng	# 24
51) Acenaphthene	10.01	154	15477	2.444	ng	98
57) Fluorene	10.53	166	16883	2.453	ng	# 98
70) Phenanthrene	11.50	178	364217	43.577	ng	99
71) Anthracene	11.55	178	55897	6.552	ng	99
74) Fluoranthene	12.70	202	388913	42.217	ng	96
77) Pyrene	12.94	202	527115	42.532	ng	99
80) Benzo(a)anthracene	14.13	228	320489	27.979	ng	98
82) Chrysene	14.17	228	315294	29.920	ng	98
85) Indeno(1,2,3-cd)pyrene	17.28	276	86521	9.675	ng	# 87
87) Benzo(b)fluoranthene	15.22	252	348799	36.105	ng	96
88) Benzo(k)fluoranthene	15.34	252	38264	4.159	ng	95
89) Benzo(a)pyrene	15.55	252	163157	18.998	ng	99
90) Dibenzo(a,h)anthracene	17.46	278	22337	3.069	ng	97
91) Benzo(g,h,i)perylene	17.77	276	104954	14.753	ng	# 88

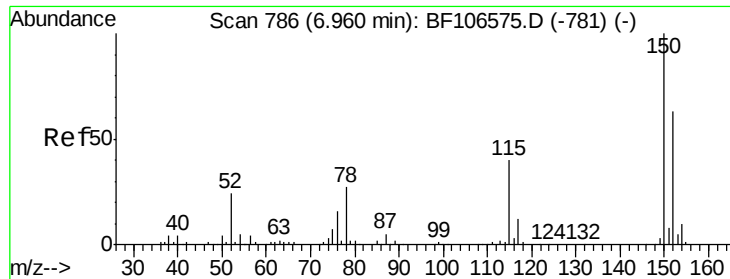
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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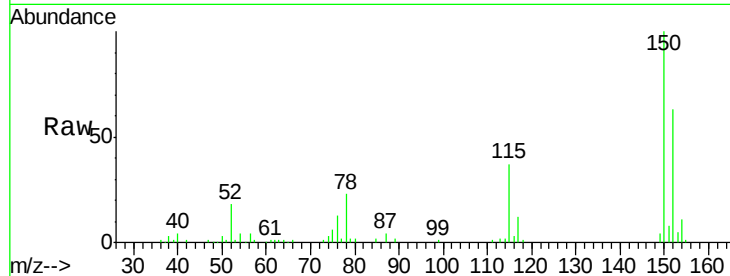


#1

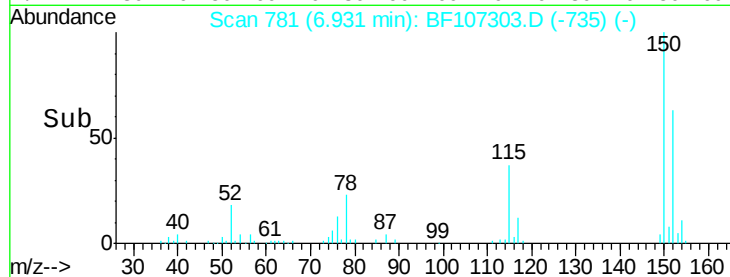
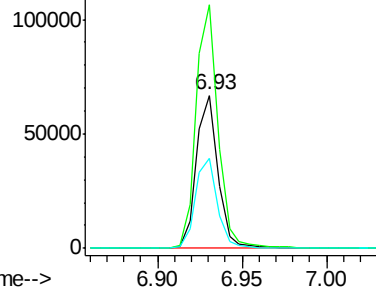
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.93 min Scan# 781
Delta R.T. -0.03 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

Instrument :
BNA_F
ClientSampleId :
EP-2-4DL

Tgt Ion:152 Resp: 59708
Ion Ratio Lower Upper
152 100
150 159.1 124.6 186.8
115 58.4 50.1 75.1



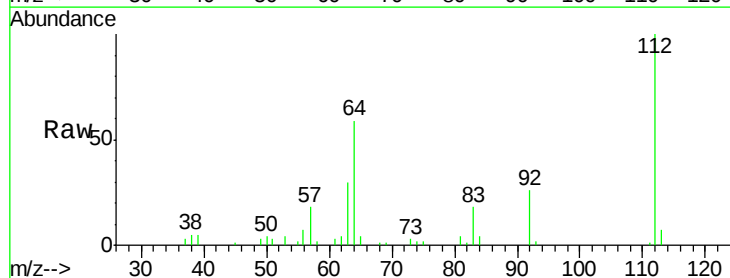
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



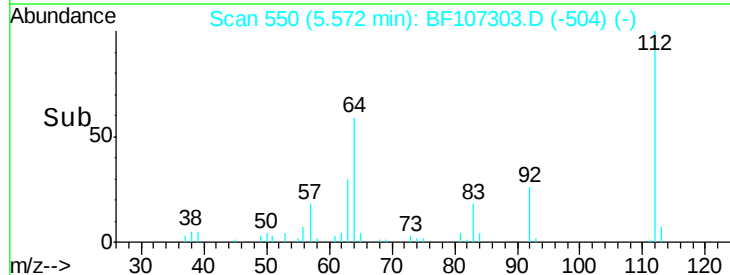
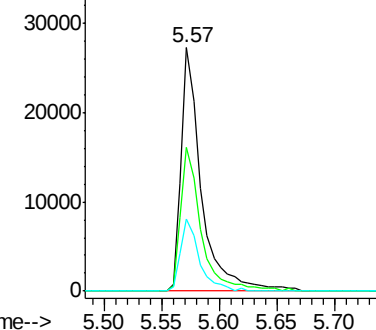
#5

2-Fluorophenol
Concen: 9.435 ng
RT: 5.57 min Scan# 550
Delta R.T. -0.03 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

Tgt Ion:112 Resp: 33267
Ion Ratio Lower Upper
112 100
64 59.3 47.9 71.9
63 29.8 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: 9.634 ng

RT: 6.58 min Scan# 721

Delta R.T. -0.04 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

Instrument :

BNA_F

ClientSampleId :

EP-2-4DL

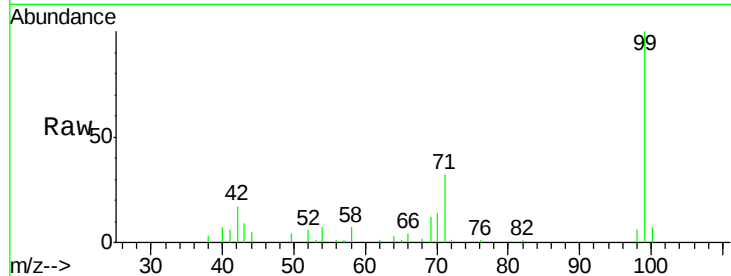
Tgt Ion: 99 Resp: 42424

Ion Ratio Lower Upper

99 100

42 16.8 14.5 21.7

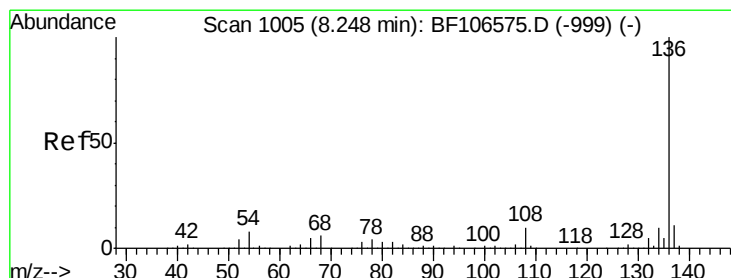
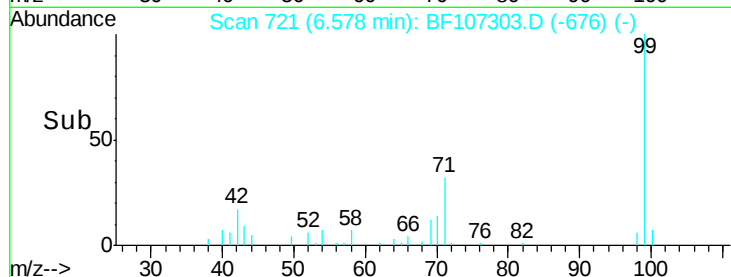
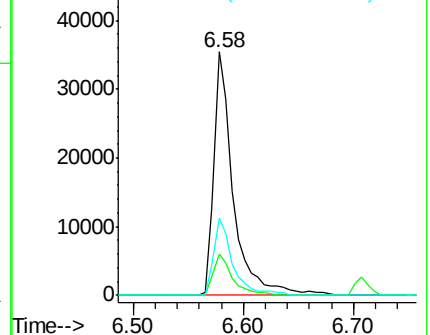
71 31.9 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.21 min Scan# 999

Delta R.T. -0.04 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

Tgt Ion: 136 Resp: 228025

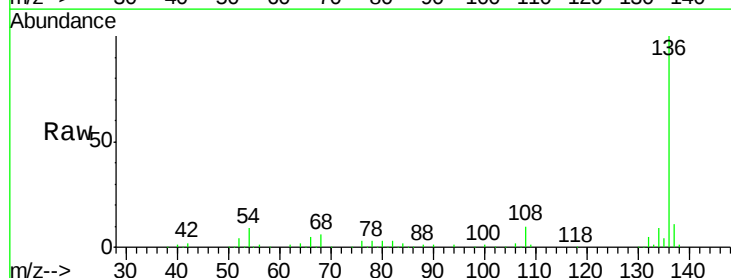
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.5 6.6 9.8

68 6.5 5.0 7.4

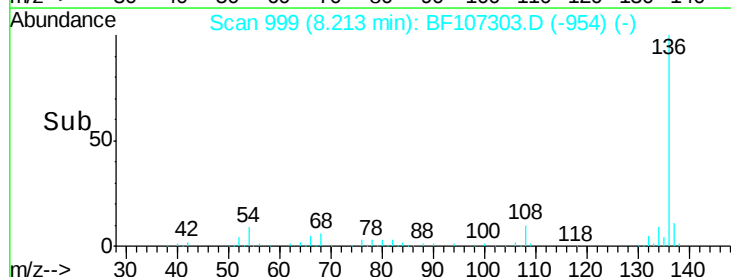
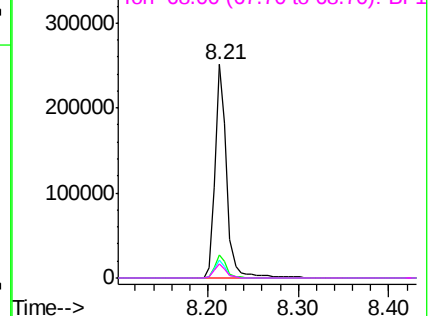


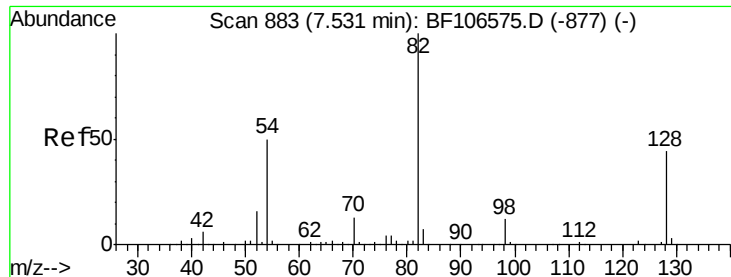
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

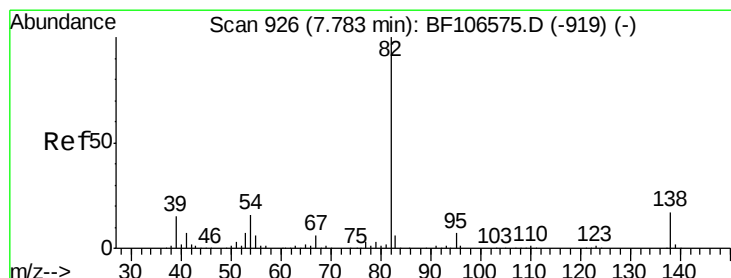
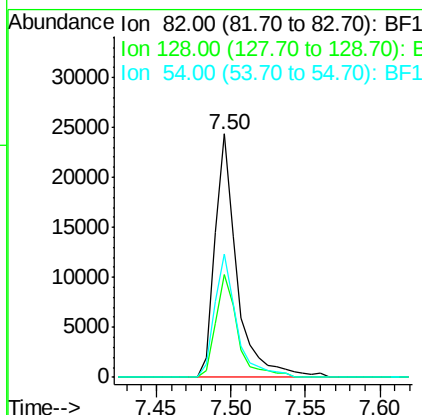
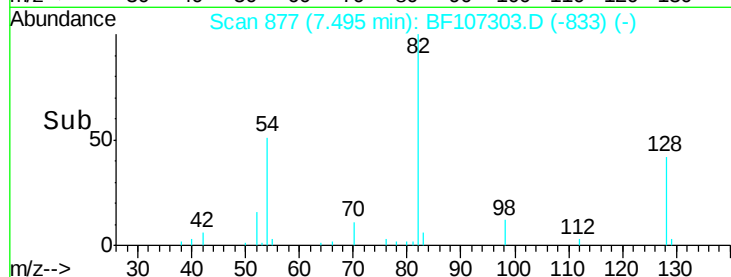
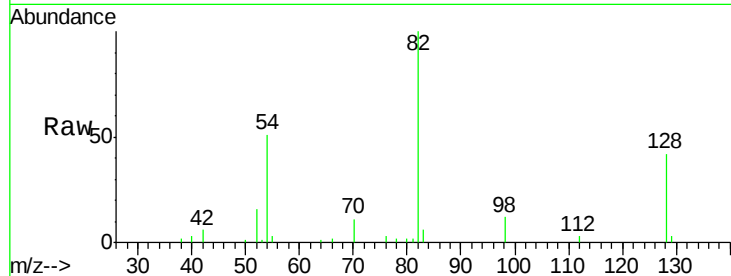




#23
Nitrobenzene-d5
Concen: 6.094 ng
RT: 7.50 min Scan# 877
Delta R.T. -0.04 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

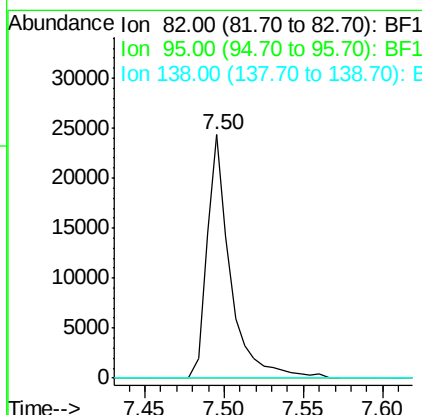
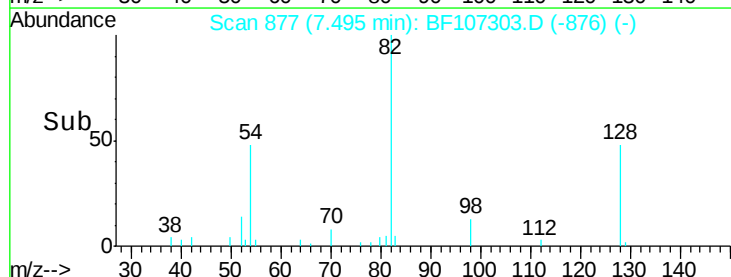
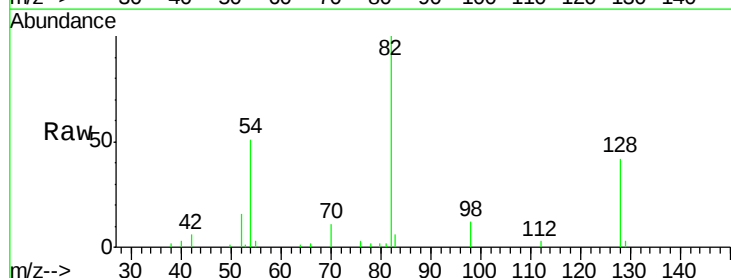
Instrument :
BNA_F
ClientSampleId :
EP-2-4DL

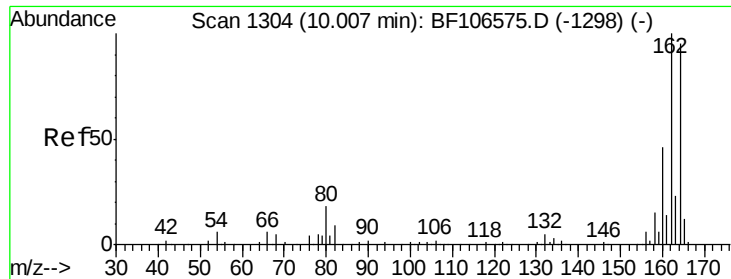
Tgt Ion: 82 Resp: 25004
Ion Ratio Lower Upper
82 100
128 42.0 36.1 54.1
54 50.7 41.4 62.2



#25
Isophorone
Concen: 3.458 ng
RT: 7.50 min Scan# 877
Delta R.T. -0.29 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

Tgt Ion: 82 Resp: 25004
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 14.9 22.3#

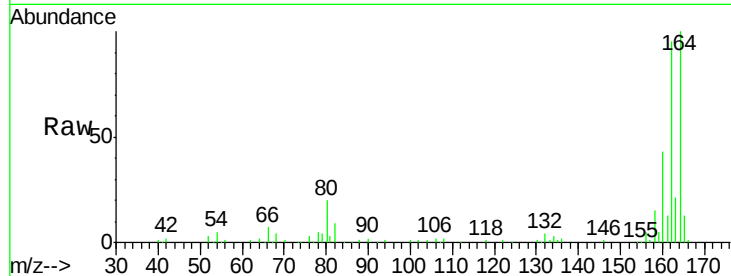




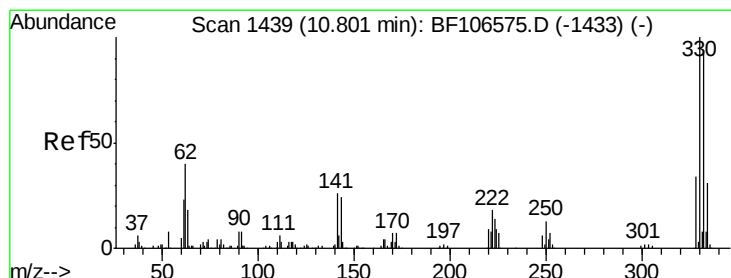
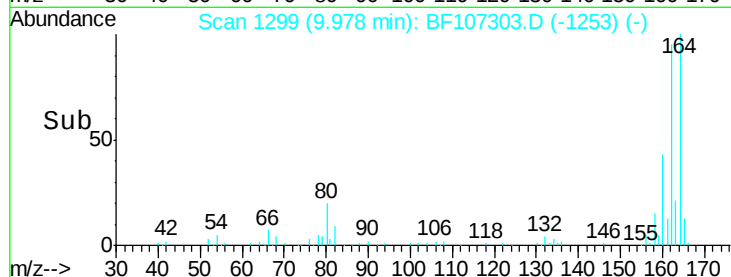
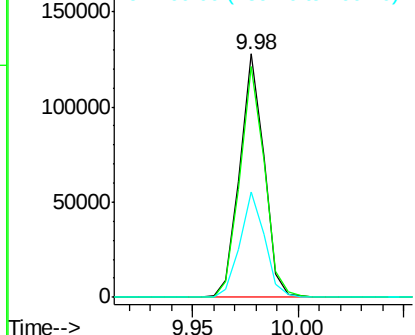
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1299
Delta R.T. -0.03 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

Instrument :
BNA_F
ClientSampleId :
EP-2-4DL

Tgt Ion:164 Resp: 101545
Ion Ratio Lower Upper
164 100
162 95.0 86.1 129.1
160 43.1 38.3 57.5

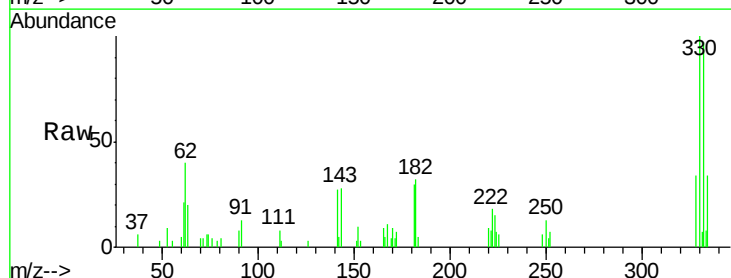


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

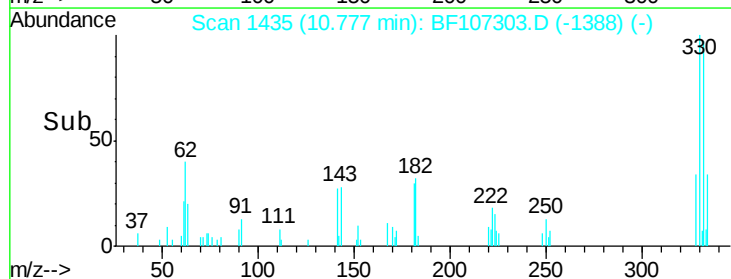
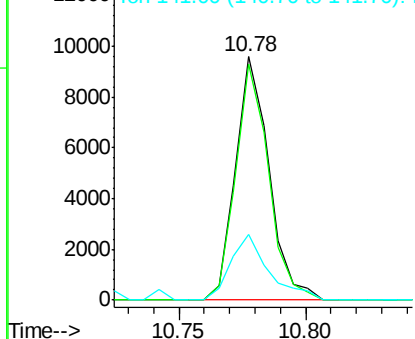


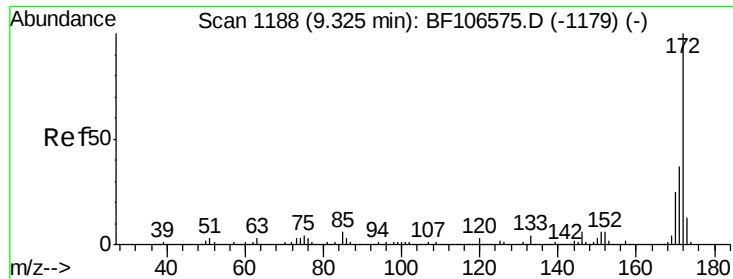
#41
2,4,6-Tribromophenol
Concen: 7.492 ng
RT: 10.78 min Scan# 1435
Delta R.T. -0.02 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

Tgt Ion:330 Resp: 8818
Ion Ratio Lower Upper
330 100
332 95.0 77.0 115.6
141 30.7 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

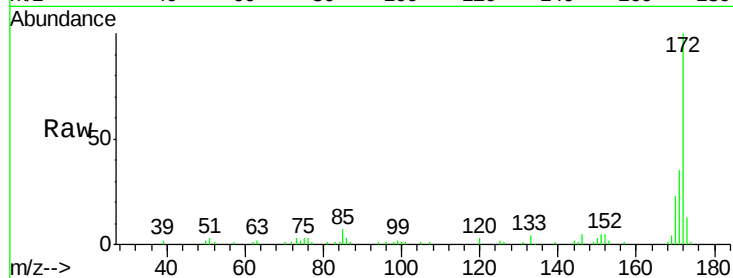




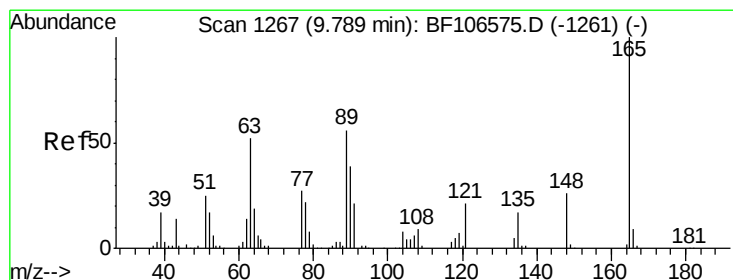
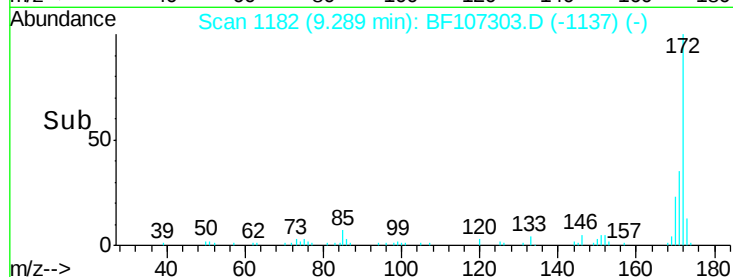
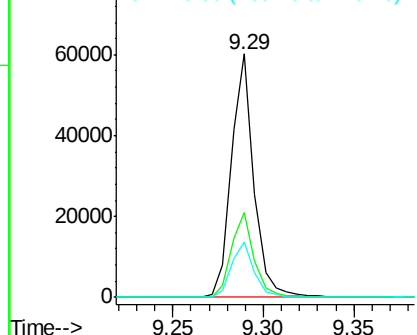
#44
 2-Fluorobiphenyl
 Concen: -7.365 ng
 RT: 9.29 min Scan# 1182
 Delta R.T. -0.03 min
 Lab File: BF107303.D
 Acq: 11 Jul 2018 16:38

Instrument :
 BNA_F
 ClientSampleId :
 EP-2-4DL

Tgt Ion:172 Resp: 51979
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.7 44.5
 170 22.8 19.6 29.4

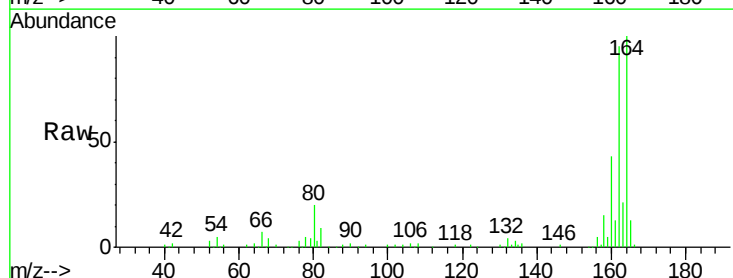


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

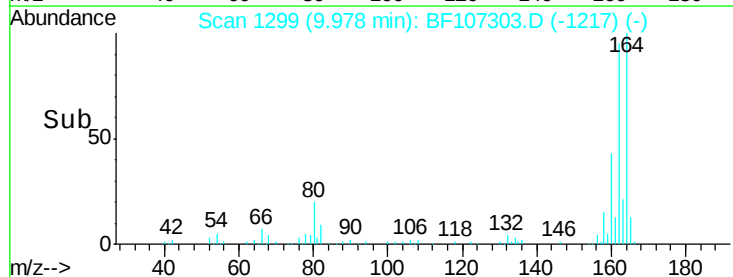
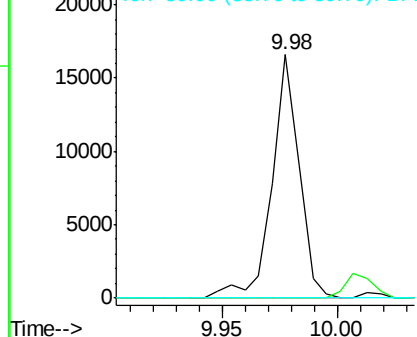


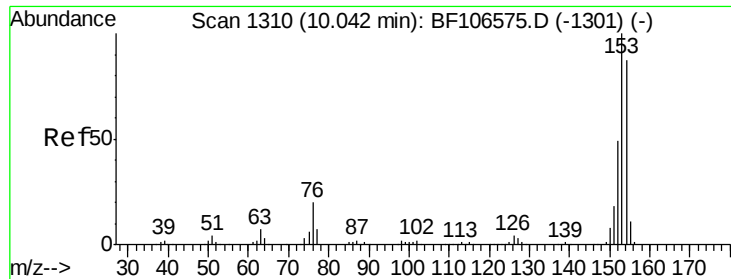
#50
 2,6-Dinitrotoluene
 Concen: 8.427 ng
 RT: 9.98 min Scan# 1299
 Delta R.T. 0.18 min
 Lab File: BF107303.D
 Acq: 11 Jul 2018 16:38

Tgt Ion:165 Resp: 13591
 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





#51

Acenaphthene

Concen: 2.444 ng

RT: 10.01 min Scan# 1305

Delta R.T. -0.03 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

Instrument :

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ClientSampleId :

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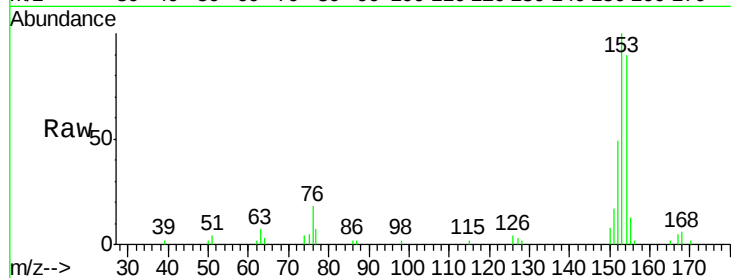
Tgt Ion:154 Resp: 15477

Ion Ratio Lower Upper

154 100

153 111.6 91.2 136.8

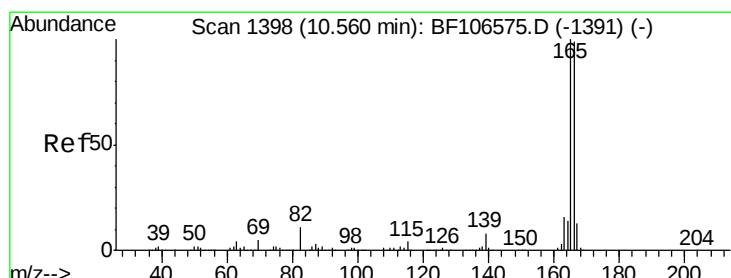
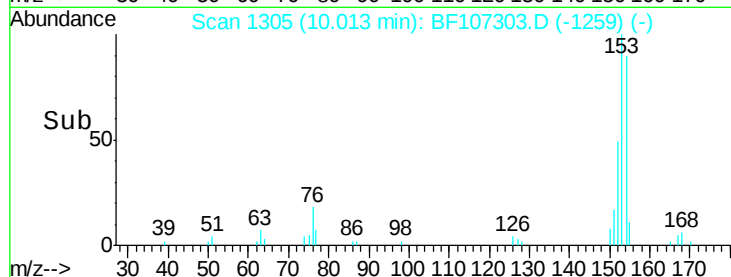
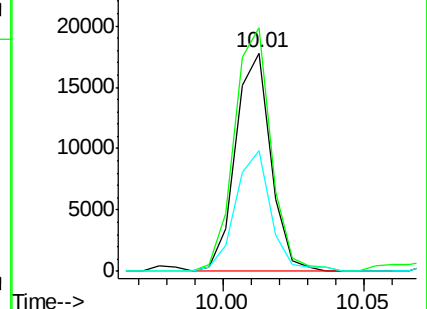
152 55.2 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 2.453 ng

RT: 10.53 min Scan# 1393

Delta R.T. -0.03 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

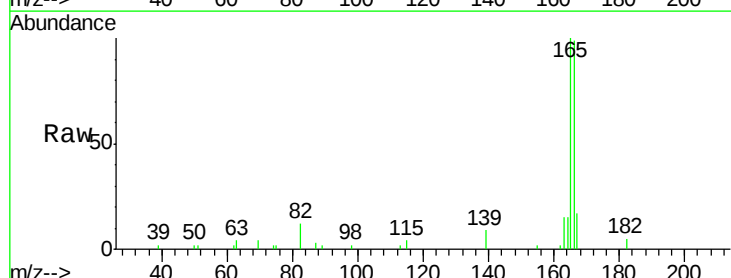
Tgt Ion:166 Resp: 16883

Ion Ratio Lower Upper

166 100

165 101.2 79.8 119.8

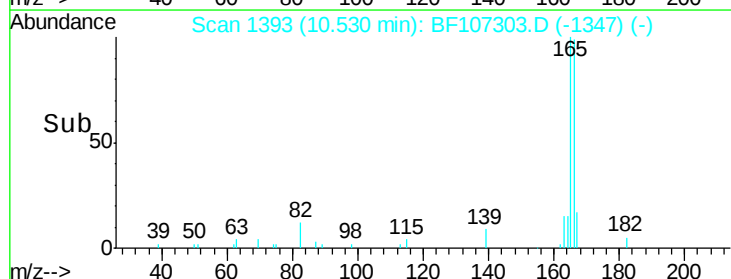
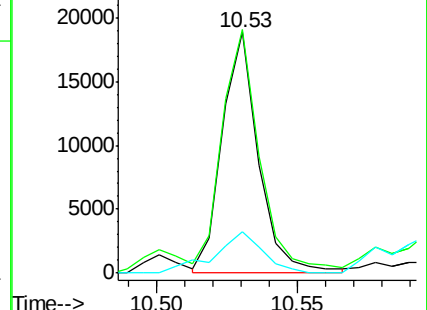
167 17.0 10.6 16.0#



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: 11.48 min Scan# 1554

Delta R.T. -0.02 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

Instrument :

BNA_F

ClientSampled :

EP-2-4DL

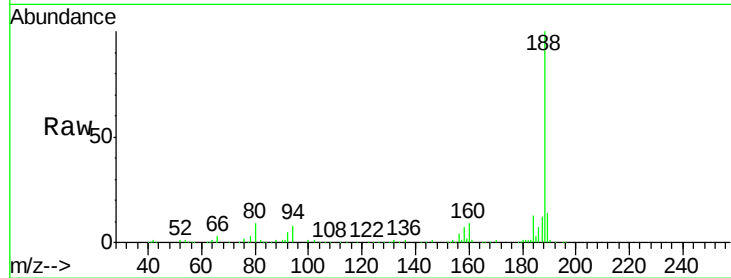
Tgt Ion:188 Resp: 173287

Ion Ratio Lower Upper

188 100

94 8.2 8.5 12.7#

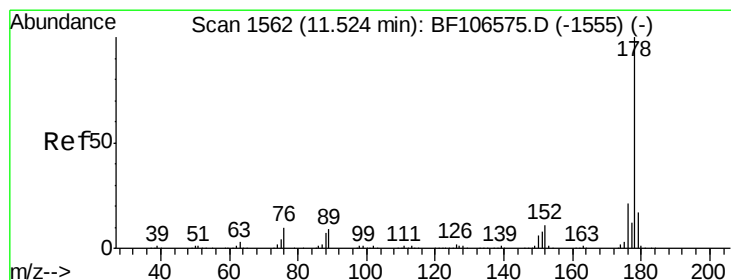
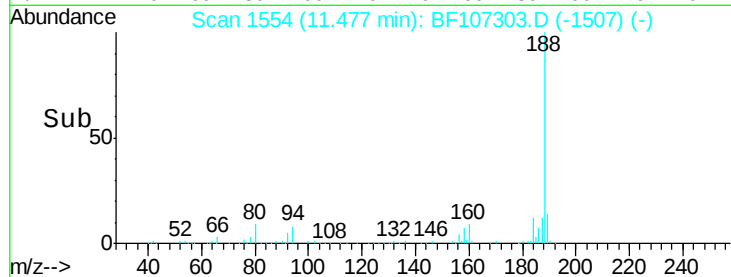
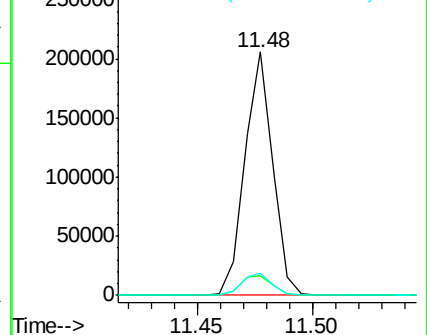
80 9.1 9.2 13.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#70

Phenanthrene

Concen: 43.577 ng

RT: 11.50 min Scan# 1558

Delta R.T. -0.02 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

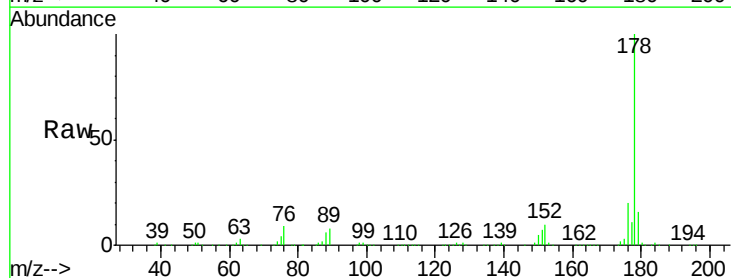
Tgt Ion:178 Resp: 364217

Ion Ratio Lower Upper

178 100

176 20.1 15.8 23.8

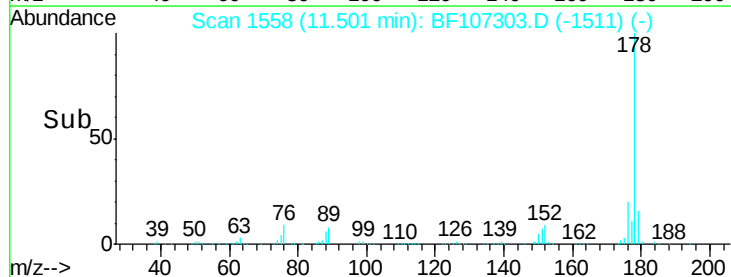
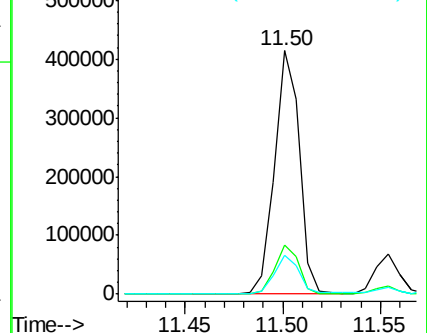
179 15.8 13.0 19.6

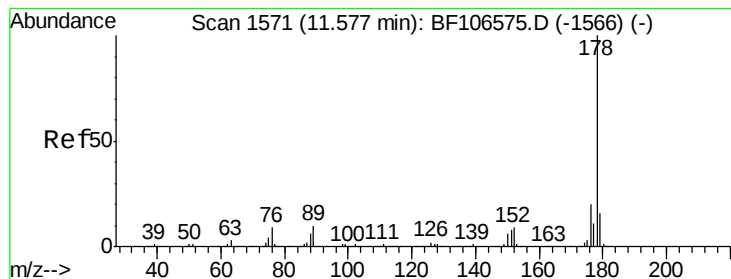


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 6.552 ng

RT: 11.55 min Scan# 1567

Delta R.T. -0.02 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

Instrument :

BNA_F

ClientSampleId :

EP-2-4DL

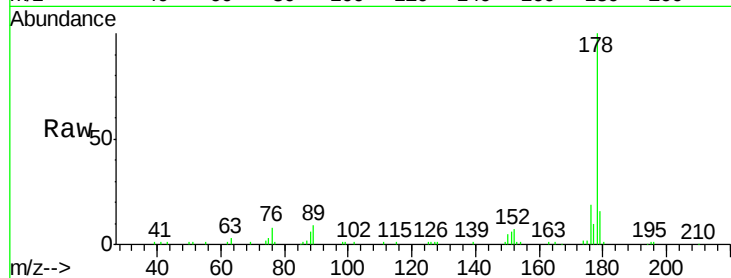
Tgt Ion:178 Resp: 55897

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

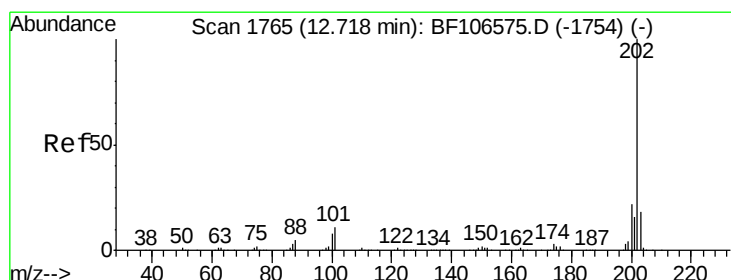
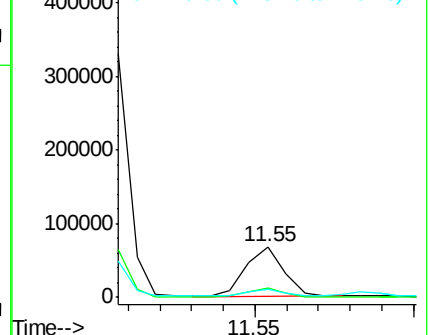
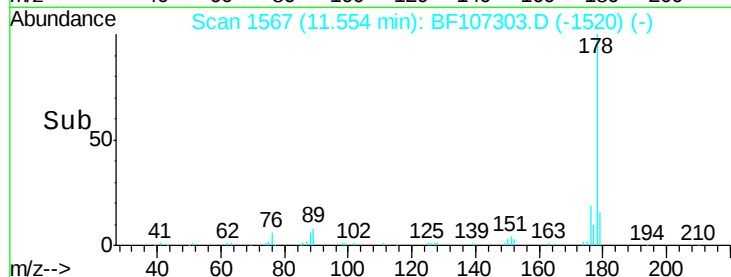
179 16.0 12.6 19.0



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



#74

Fluoranthene

Concen: 42.217 ng

RT: 12.70 min Scan# 1762

Delta R.T. -0.02 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

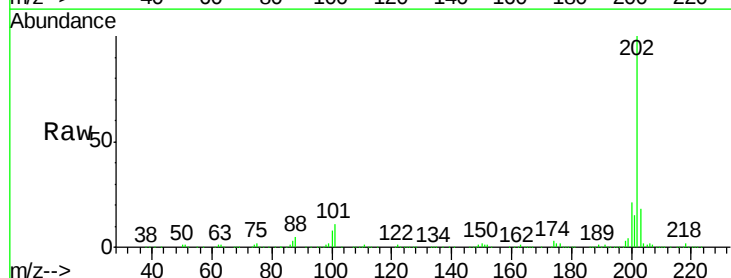
Tgt Ion:202 Resp: 388913

Ion Ratio Lower Upper

202 100

101 10.7 0.0 34.1

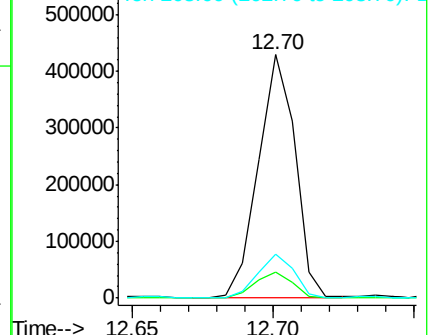
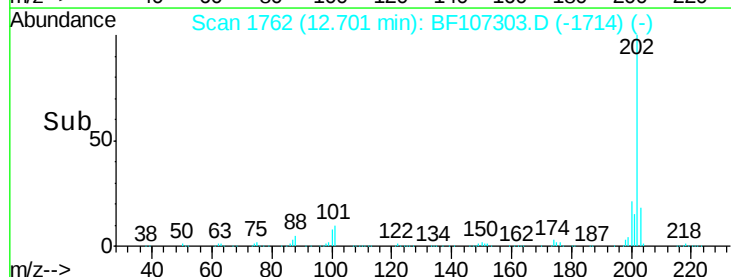
203 17.9 0.0 38.1

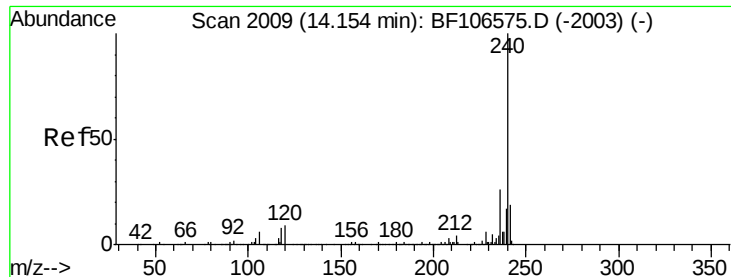


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF107303.D

Acq: 11 Jul 2018 16:38

Instrument :

BNA_F

ClientSampleId :

EP-2-4DL

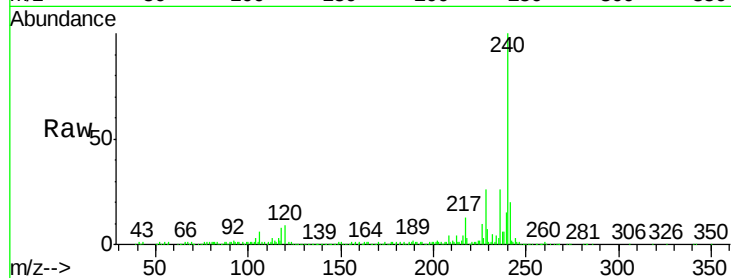
Tgt Ion:240 Resp: 187942

Ion Ratio Lower Upper

240 100

120 9.1 9.5 14.3#

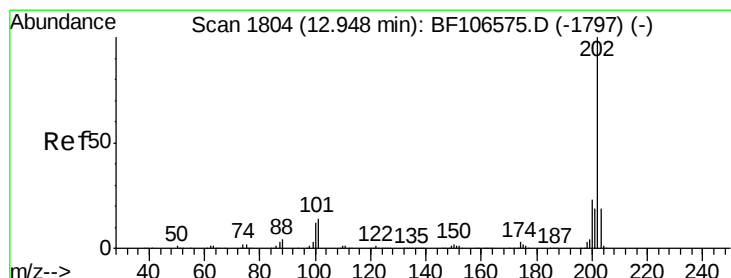
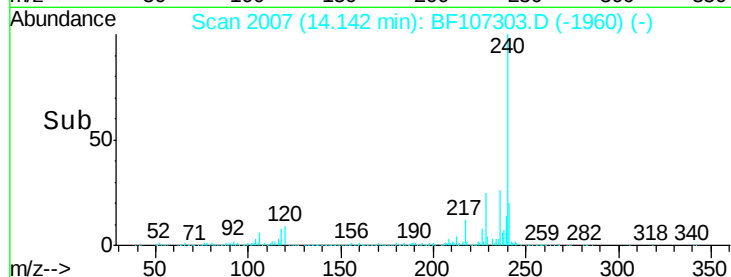
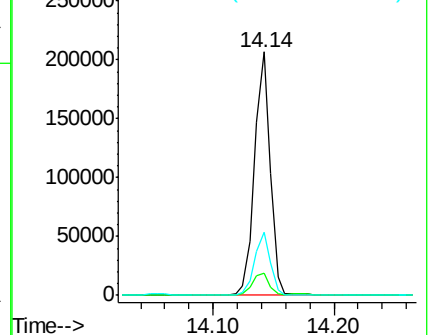
236 26.0 20.7 31.1



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: 42.532 ng

RT: 12.94 min Scan# 1802

Delta R.T. -0.01 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

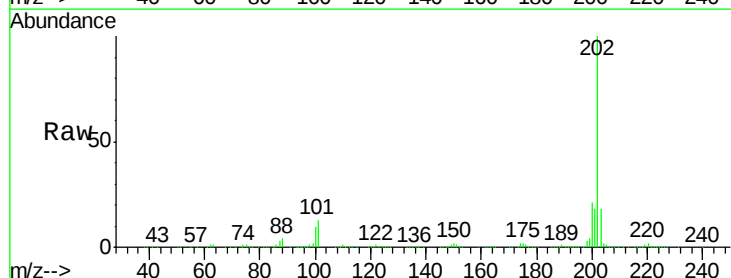
Tgt Ion:202 Resp: 527115

Ion Ratio Lower Upper

202 100

200 21.5 17.4 26.2

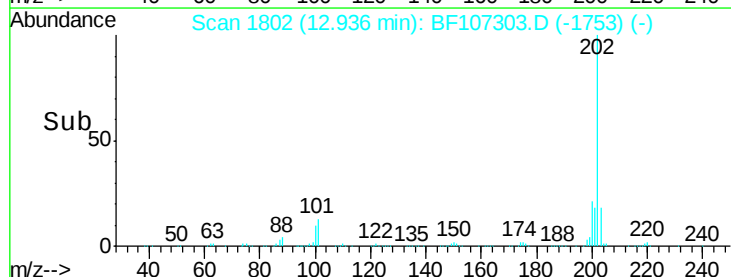
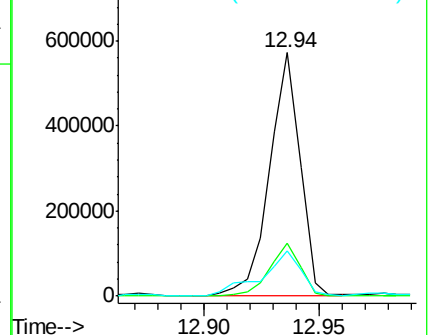
203 18.4 14.3 21.5

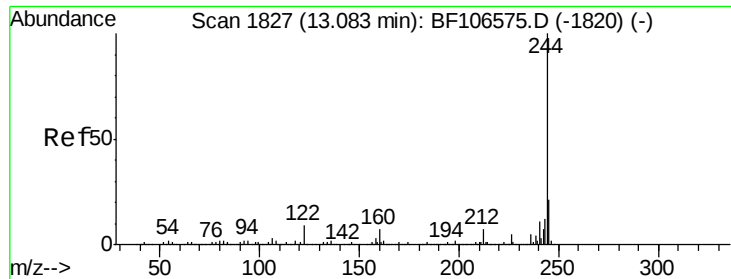


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 6.527 ng

RT: 13.06 min Scan# 1823

Delta R.T. -0.02 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

Instrument :

BNA_F

ClientSampleId :

EP-2-4DL

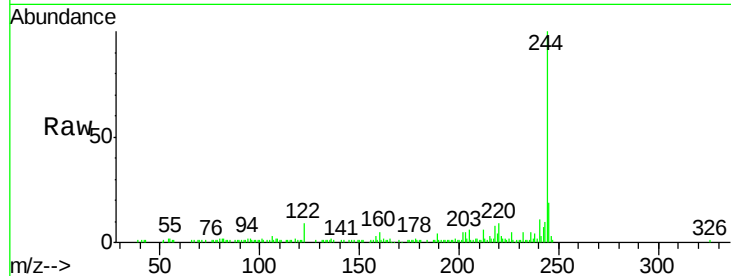
Tgt Ion:244 Resp: 50643

Ion Ratio Lower Upper

244 100

212 6.0 5.4 8.0

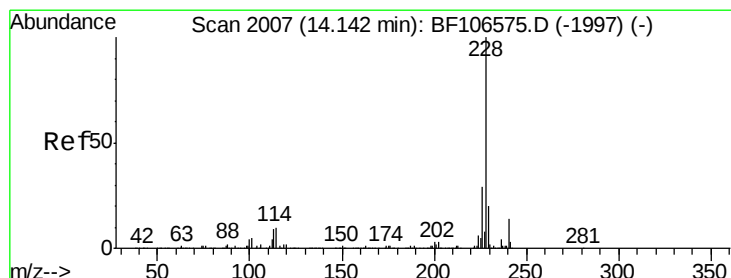
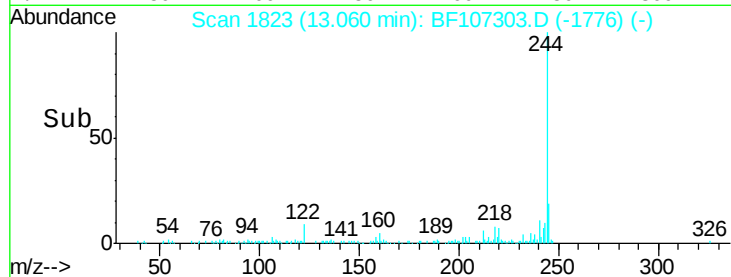
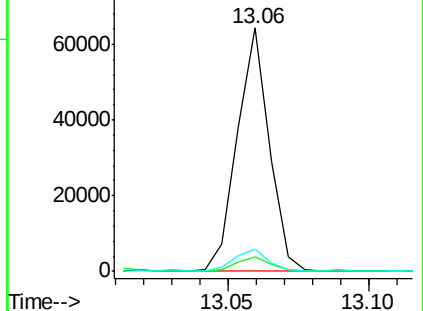
122 9.3 11.0 16.4#



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: 27.979 ng

RT: 14.13 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

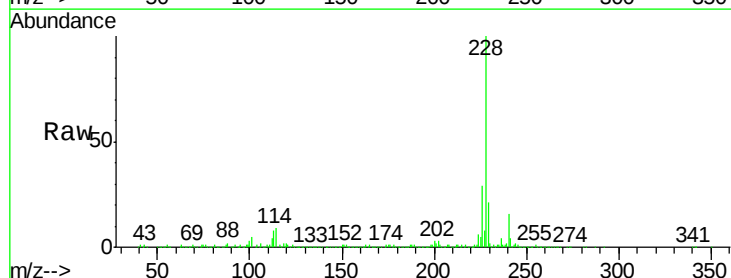
Tgt Ion:228 Resp: 320489

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

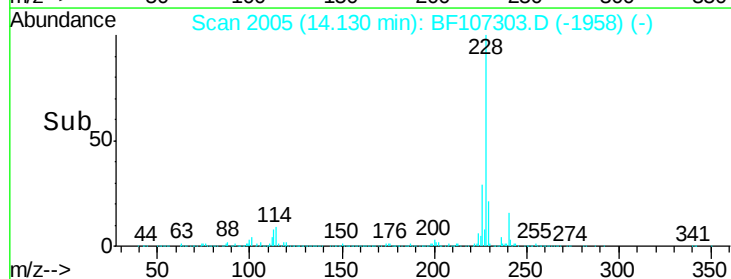
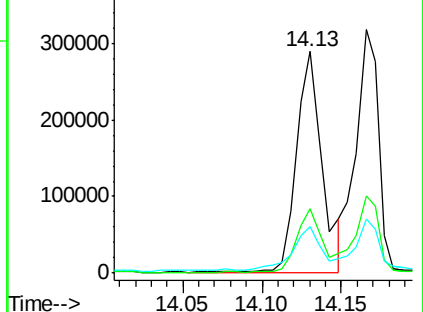
229 21.3 15.8 23.6

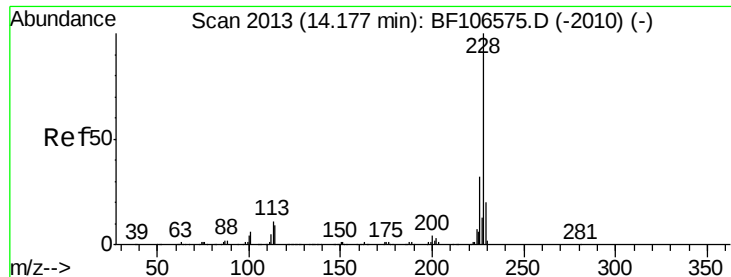


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 29.920 ng

RT: 14.17 min Scan# 2011

Delta R.T. -0.03 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

Instrument :

BNA_F

ClientSampleId :

EP-2-4DL

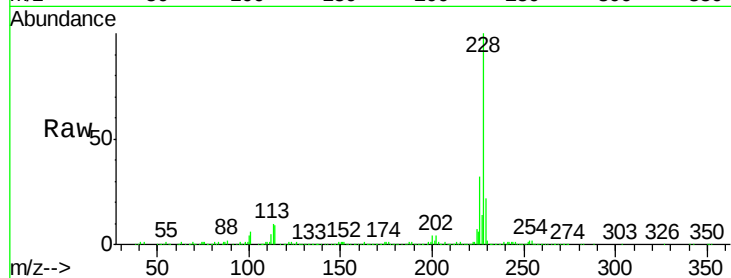
Tgt Ion:228 Resp: 315294

Ion Ratio Lower Upper

228 100

226 31.8 25.0 37.6

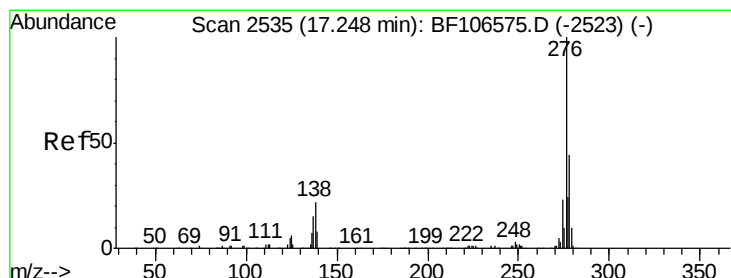
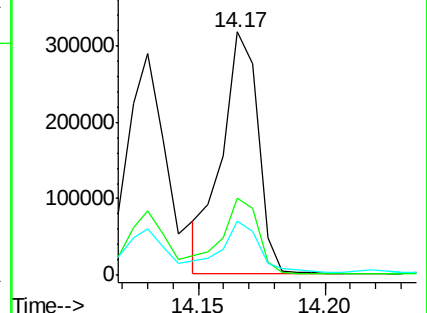
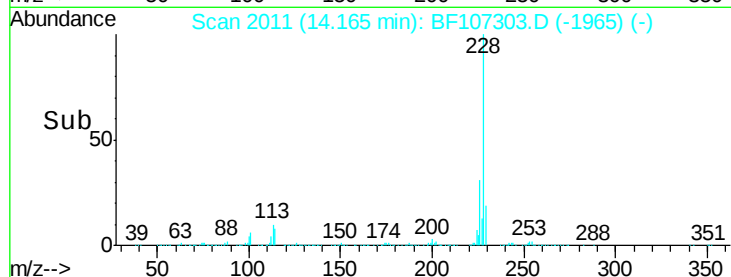
229 22.0 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.675 ng

RT: 17.28 min Scan# 2540

Delta R.T. -0.03 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

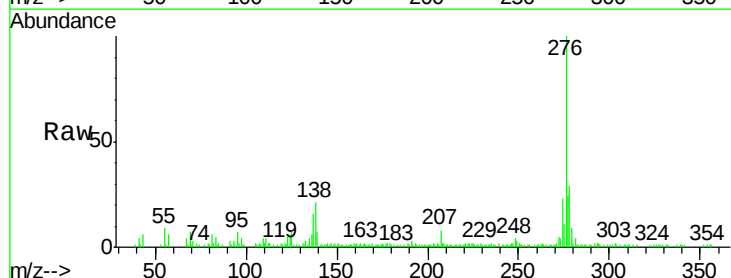
Tgt Ion:276 Resp: 86521

Ion Ratio Lower Upper

276 100

138 19.3 25.0 37.6#

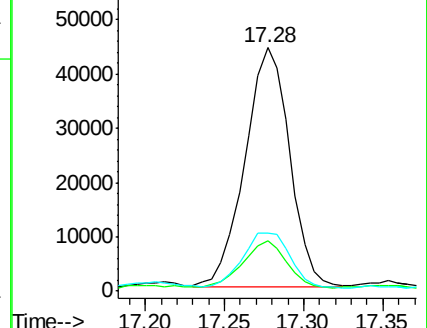
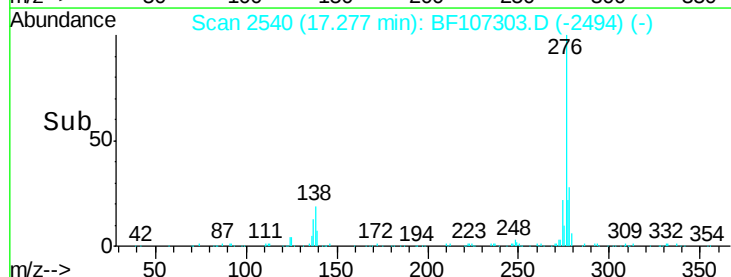
277 24.5 20.1 30.1

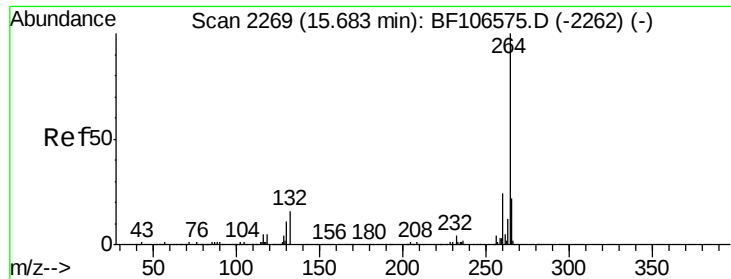


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

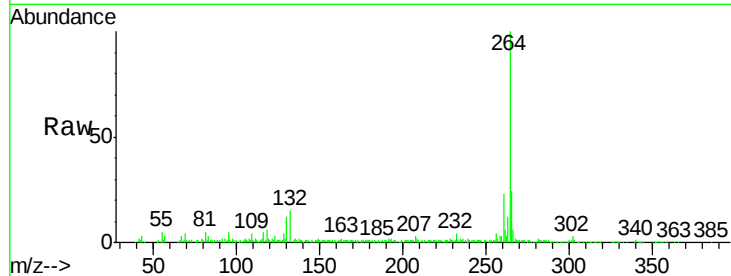




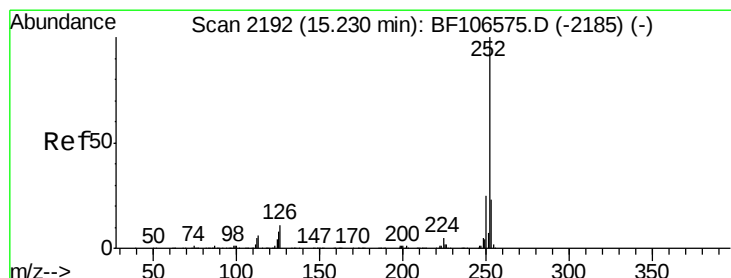
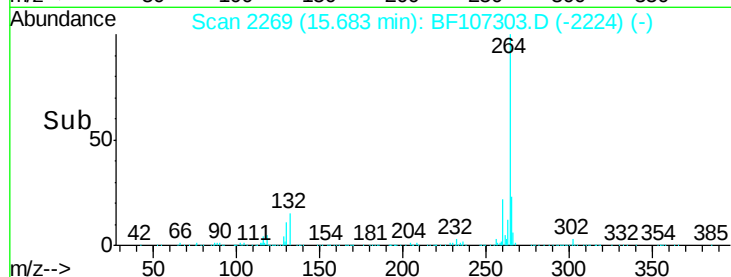
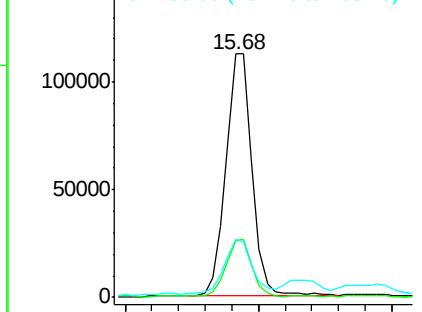
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.68 min Scan# 2269
Delta R.T. -0.04 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

Instrument :
BNA_F
ClientSampleId :
EP-2-4DL

Tgt Ion:264 Resp: 155518
Ion Ratio Lower Upper
264 100
260 23.2 19.2 28.8
265 24.1 17.5 26.3

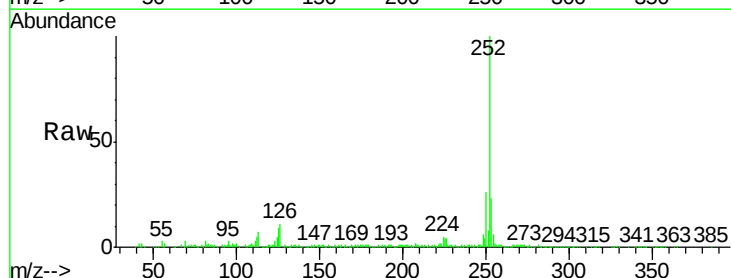


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

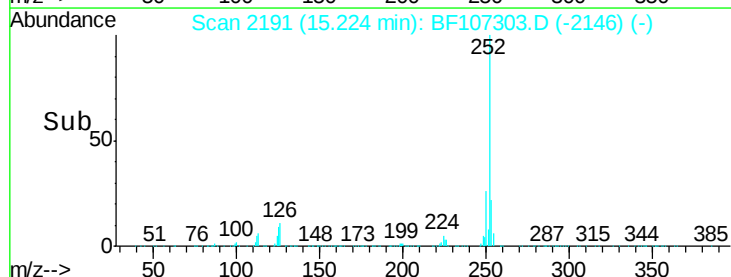
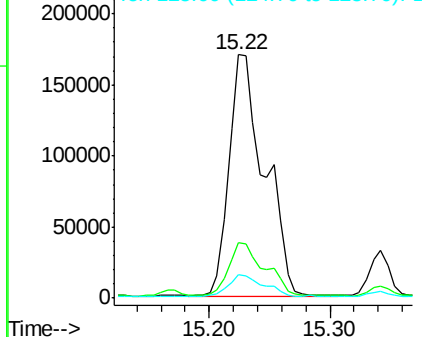


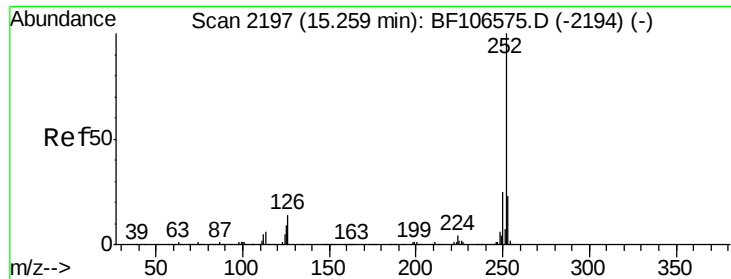
#87
Benzo(b)fluoranthene
Concen: 36.105 ng
RT: 15.22 min Scan# 2191
Delta R.T. -0.04 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

Tgt Ion:252 Resp: 348799
Ion Ratio Lower Upper
252 100
253 22.9 17.0 25.6
125 9.5 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

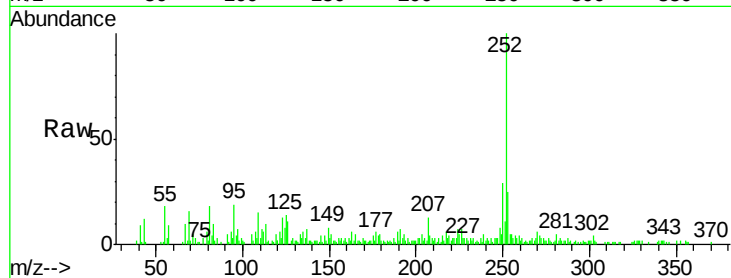




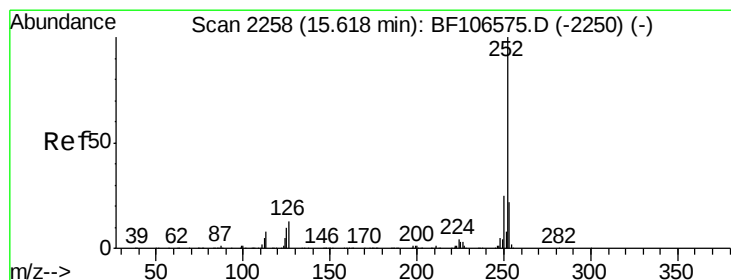
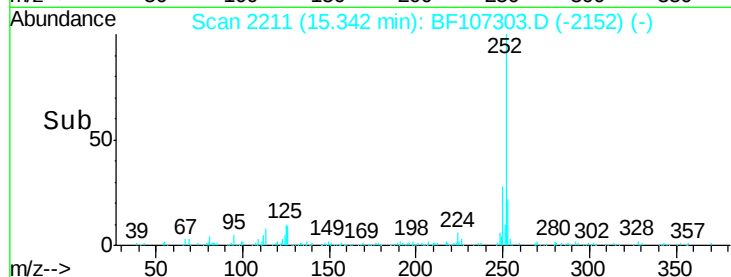
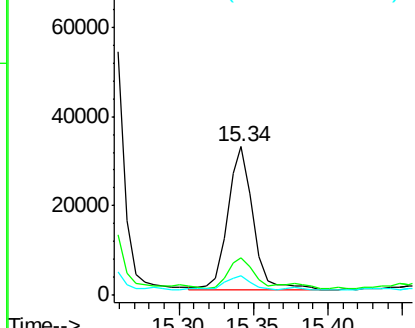
#88
Benzo(k)fluoranthene
Concen: 4.159 ng
RT: 15.34 min Scan# 2211
Delta R.T. 0.05 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

Instrument :
BNA_F
ClientSampleId :
EP-2-4DL

Tgt Ion:252 Resp: 38264
Ion Ratio Lower Upper
252 100
253 25.3 17.9 26.9
125 13.5 10.2 15.2

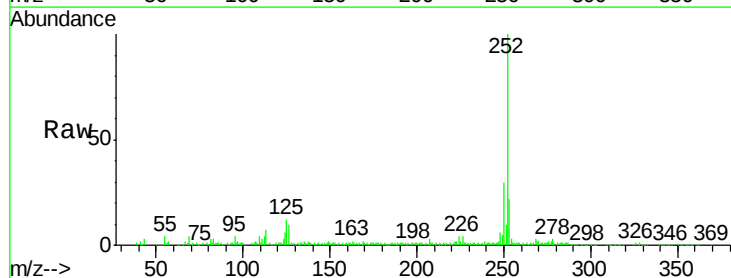


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

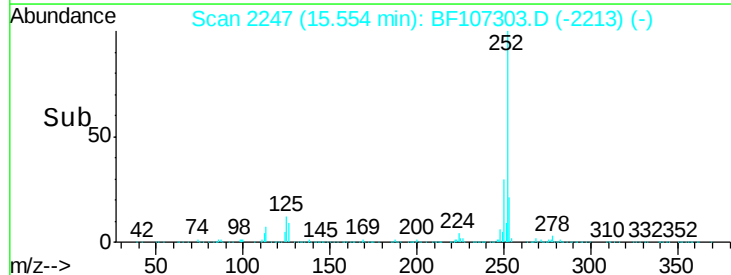
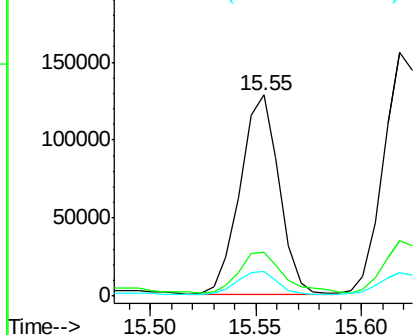


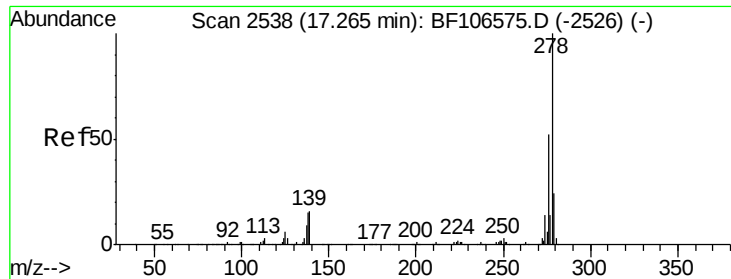
#89
Benzo(a)pyrene
Concen: 18.998 ng
RT: 15.55 min Scan# 2247
Delta R.T. -0.10 min
Lab File: BF107303.D
Acq: 11 Jul 2018 16:38

Tgt Ion:252 Resp: 163157
Ion Ratio Lower Upper
252 100
253 22.1 17.1 25.7
125 12.3 9.8 14.6



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





#90

Dibenzo(a,h)anthracene

Concen: 3.069 ng

RT: 17.46 min Scan# 2571

Delta R.T. 0.14 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

Instrument :

BNA_F

ClientSampleId :

EP-2-4DL

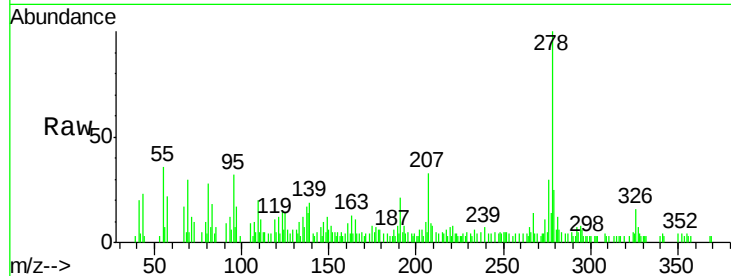
Tgt Ion: 278 Resp: 22337

Ion Ratio Lower Upper

278 100

139 18.8 15.9 23.9

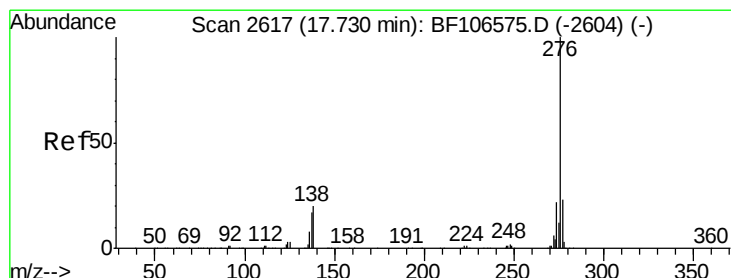
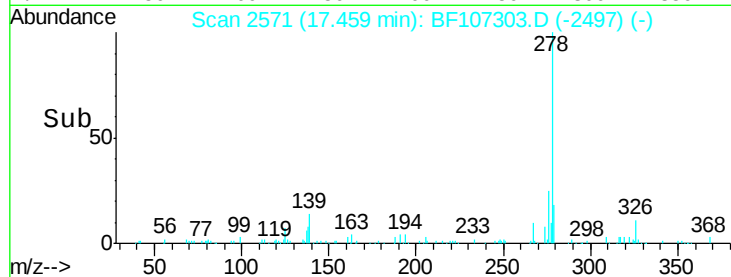
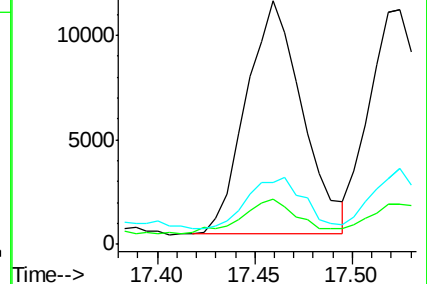
279 25.4 19.0 28.4



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: 14.753 ng

RT: 17.77 min Scan# 2623

Delta R.T. -0.02 min

Lab File: BF107303.D

Acq: 11 Jul 2018 16:38

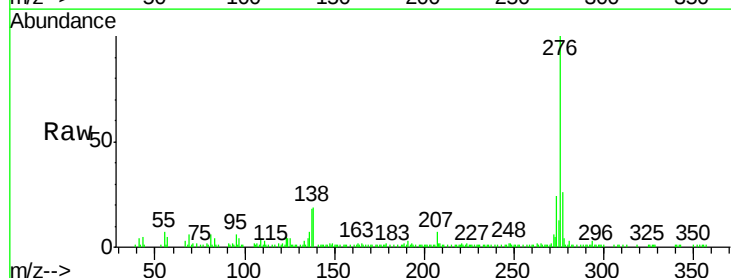
Tgt Ion: 276 Resp: 104954

Ion Ratio Lower Upper

276 100

277 25.7 17.9 26.9

138 18.7 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

