

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090418\
 Data File : BF108768.D
 Acq On : 5 Sep 2018 6:02
 Operator : JU/SJ
 Sample : J4741-14 10X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 05 08:03:56 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 30 15:06:55 2018
 Response via : Initial Calibration

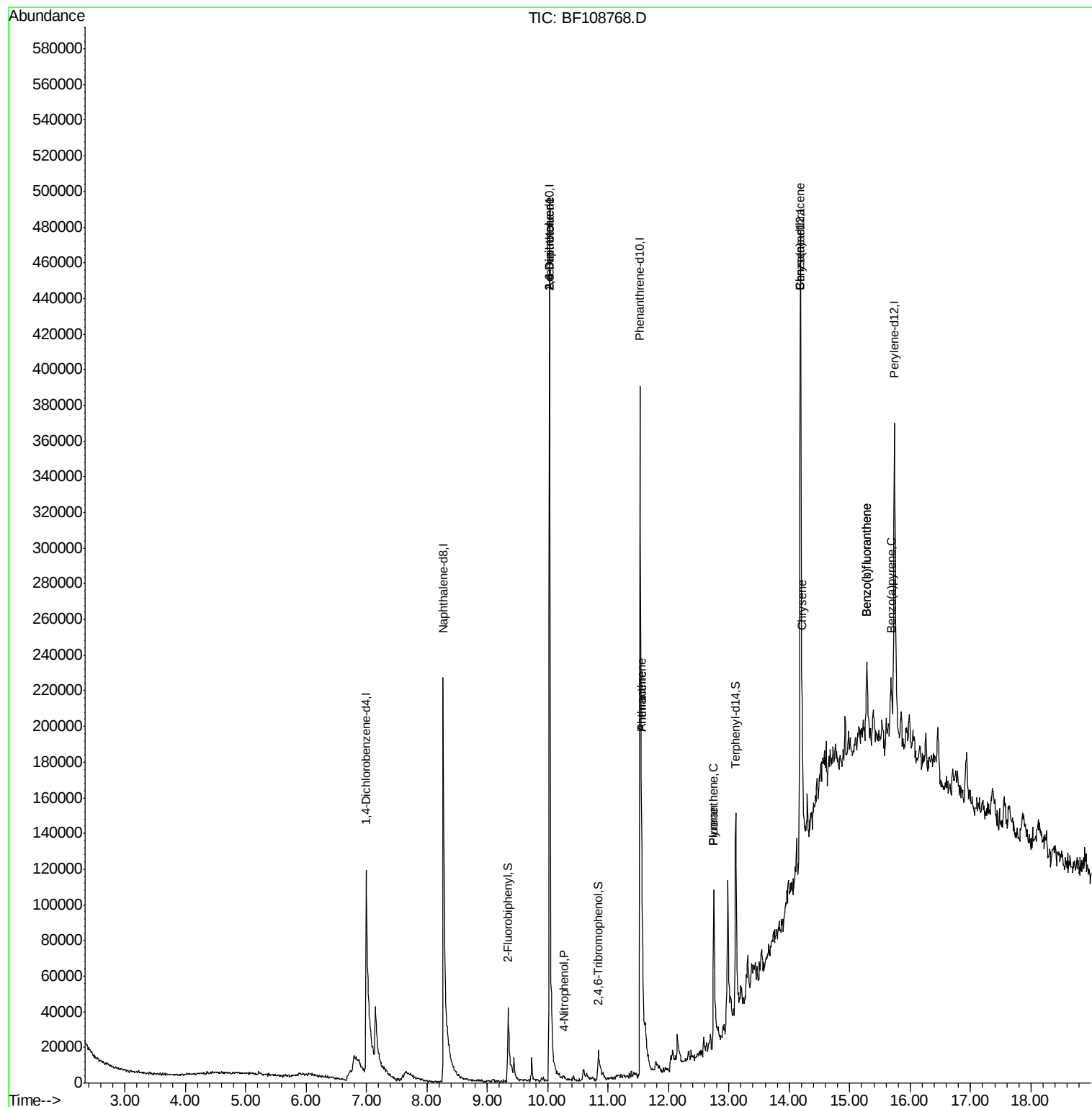
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	50998	20.00	ng	-0.01
21) Naphthalene-d8	8.27	136	244901	20.00	ng	-0.01
38) Acenaphthene-d10	10.03	164	132935	20.00	ng	-0.02
63) Phenanthrene-d10	11.53	188	272909	20.00	ng	-0.02
75) Chrysene-d12	14.18	240	185266	20.00	ng	-0.02
86) Perylene-d12	15.74	264	141356	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.72	112	108	0.04	ng	0.07
7) Phenol-d6	6.74	99	7806	1.86	ng	0.09
23) Nitrobenzene-d5	7.66	82	9522	1.97	ng	0.09
41) 2,4,6-Tribromophenol	10.83	330	8532	4.86	ng	-0.02
44) 2-Fluorobiphenyl	9.35	172	48856	4.94	ng	-0.01
78) Terphenyl-d14	13.11	244	61470	6.45	ng	-0.02
Target Compounds						
50) 2,6-Dinitrotoluene	10.03	165	15487	6.712	ng	# 24
55) 4-Nitrophenol	10.27	139	560	5.090	ng	# 9
56) 2,4-Dinitrotoluene	10.03	165	16096	5.268	ng	# 21
70) Phenanthrene	11.55	178	46115	3.348	ng	98
71) Anthracene	11.55	178	46115	3.186	ng	98
74) Fluoranthene	12.75	202	70835	4.568	ng	93
77) Pyrene	12.75	202	70835	5.086	ng	94
80) Benzo(a)anthracene	14.18	228	28392	2.514	ng	# 91
82) Chrysene	14.21	228	22812	2.100	ng	# 95
87) Benzo(b)fluoranthene	15.28	252	37097	4.272	ng	# 79
88) Benzo(k)fluoranthene	15.28	252	37097	4.313	ng	# 82
89) Benzo(a)pyrene	15.68	252	22085	2.814	ng	# 80

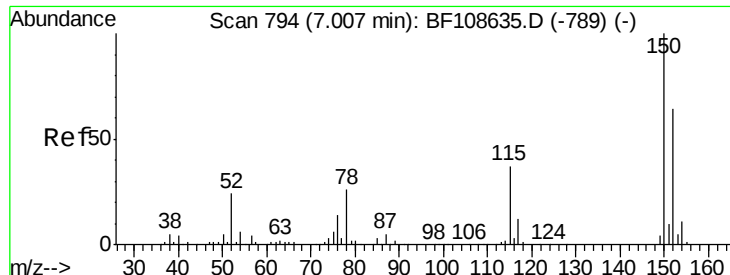
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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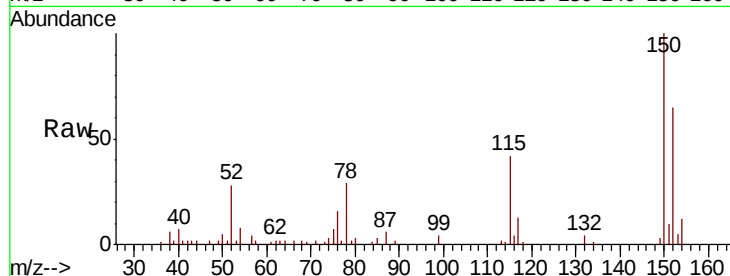




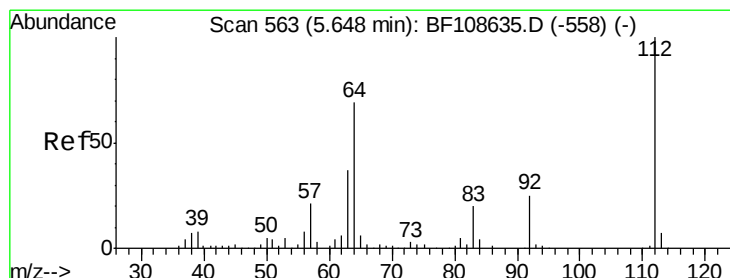
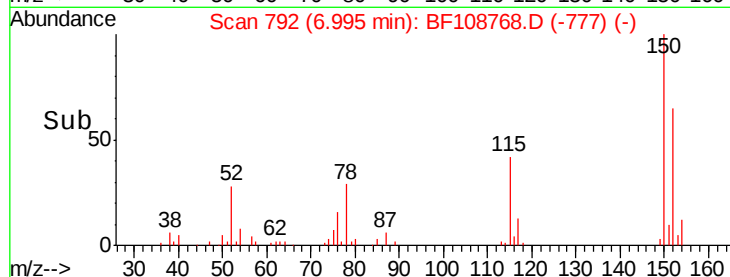
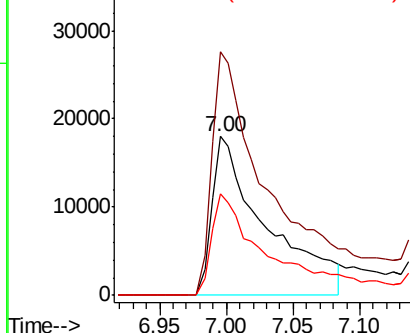
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.00 min Scan# 792
 Delta R.T. -0.01 min
 Lab File: BF108768.D
 Acq: 5 Sep 2018 6:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 50998
 Ion Ratio Lower Upper
 152 100
 150 153.2 124.6 186.8
 115 63.8 50.1 75.1

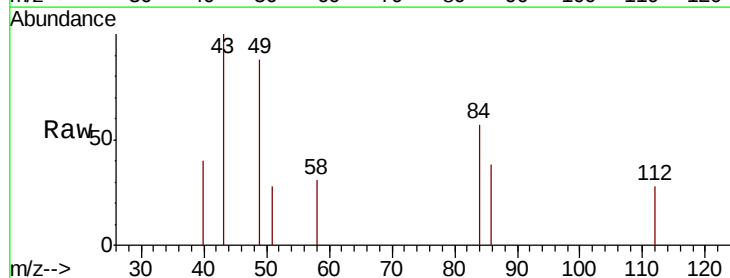


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

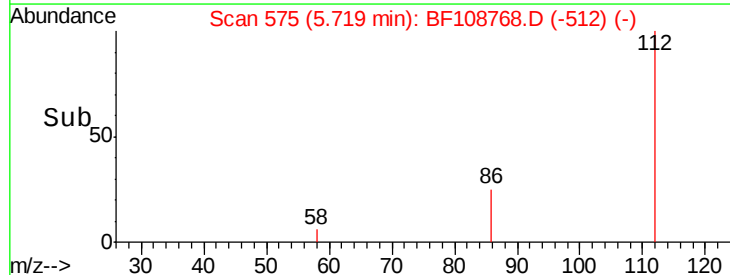
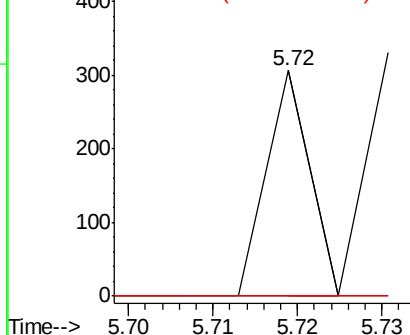


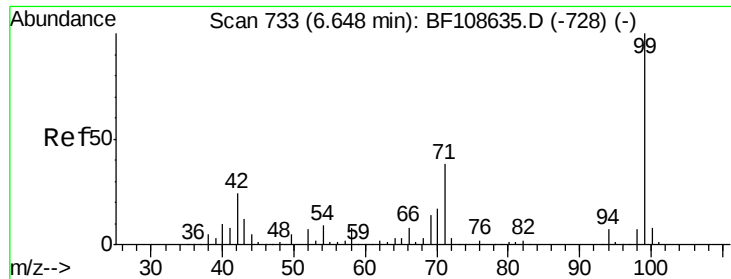
#5
 2-Fluorophenol
 Concen: 0.037 ng
 RT: 5.72 min Scan# 575
 Delta R.T. 0.07 min
 Lab File: BF108768.D
 Acq: 5 Sep 2018 6:02

Tgt Ion:112 Resp: 108
 Ion Ratio Lower Upper
 112 100
 64 0.0 47.9 71.9#
 63 0.0 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: 1.857 ng

RT: 6.74 min Scan# 748

Delta R.T. 0.09 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

Instrument :

BNA_F

ClientSampleId :

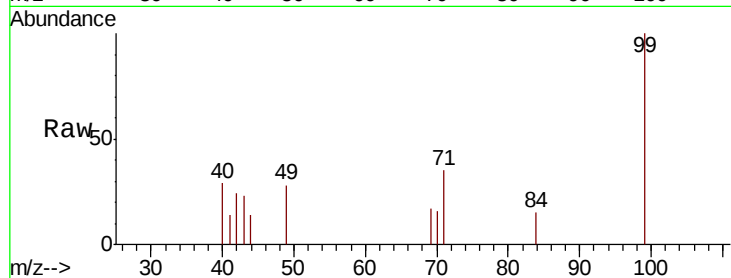
Tot Ion: 99 Resp: 7806

Ion Ratio Lower Upper

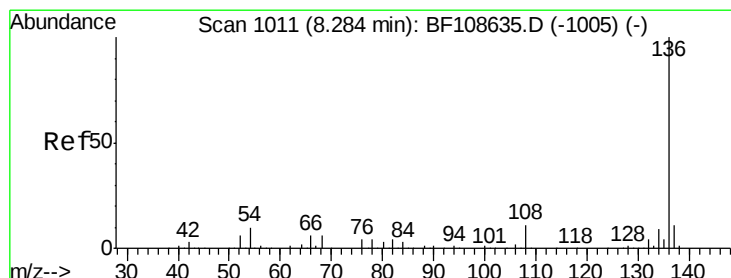
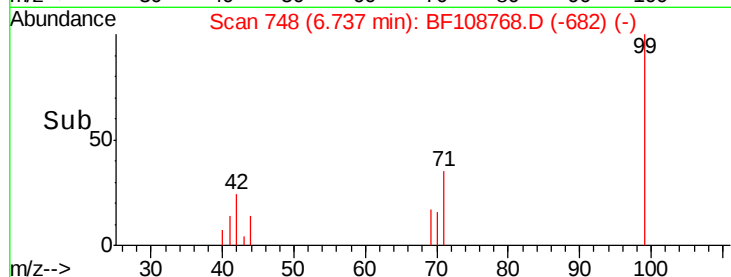
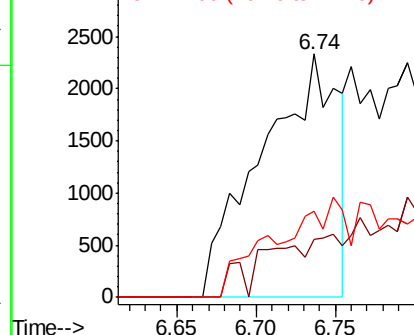
99 100

42 23.7 14.5 21.7#

71 35.2 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: 8.27 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

Tgt Ion: 136 Resp: 244901

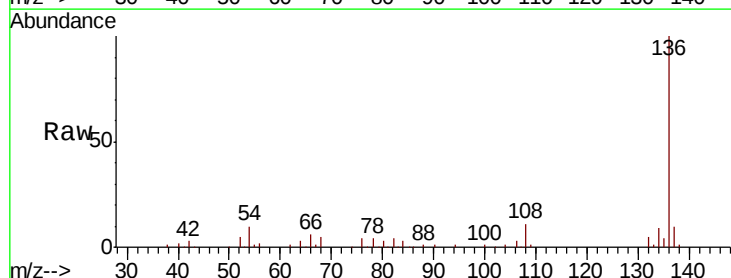
Ion Ratio Lower Upper

136 100

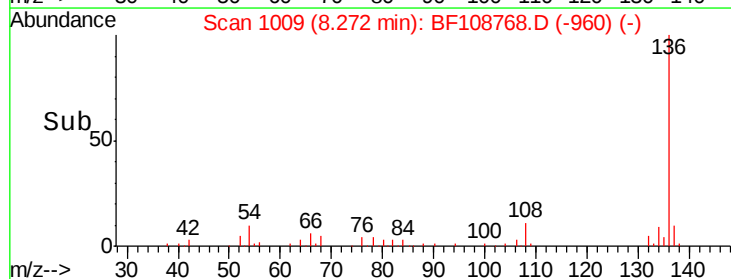
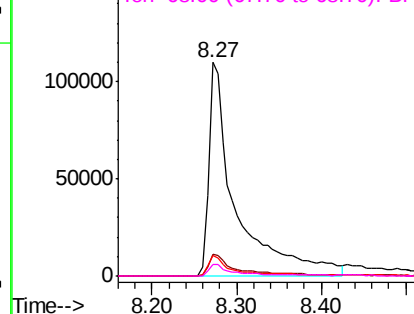
137 10.5 8.9 13.3

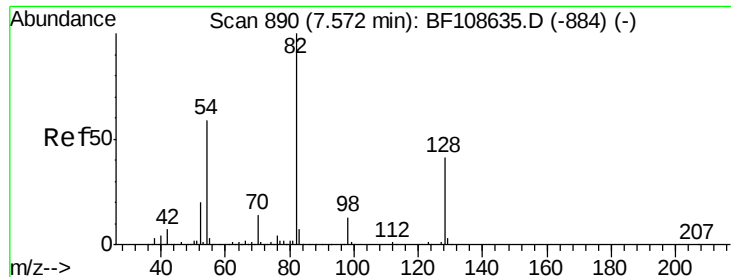
54 9.6 6.6 9.8

68 5.3 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

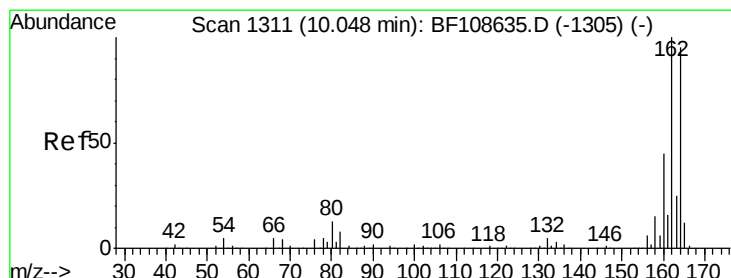
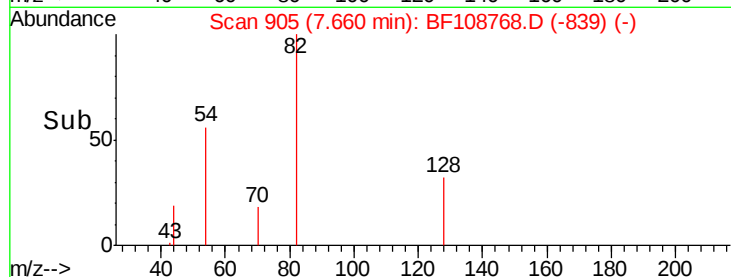
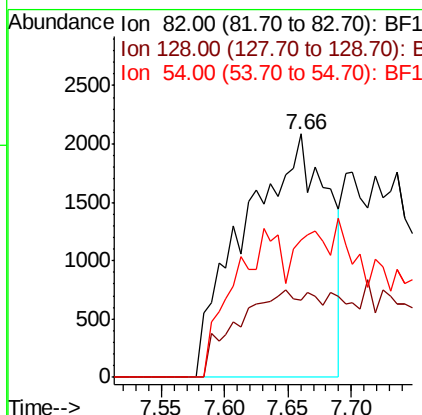
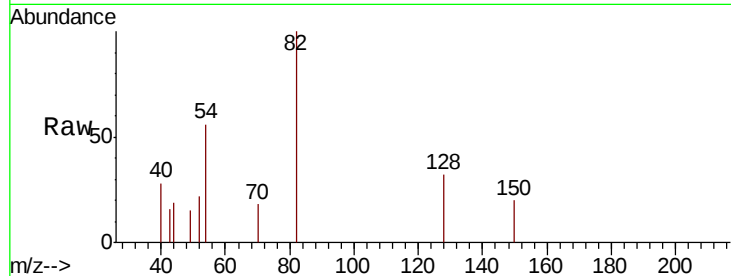




#23
 Nitrobenzene-d5
 Concen: 1.974 ng
 RT: 7.66 min Scan# 905
 Delta R.T. 0.09 min
 Lab File: BF108768.D
 Acq: 5 Sep 2018 6:02

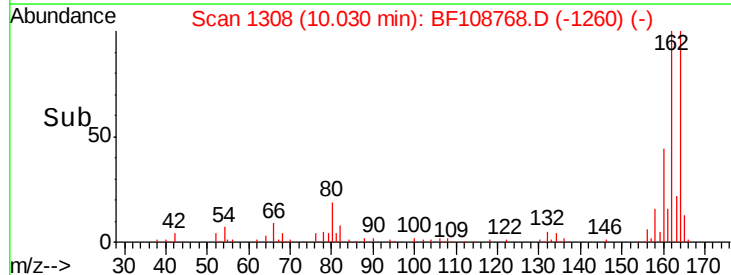
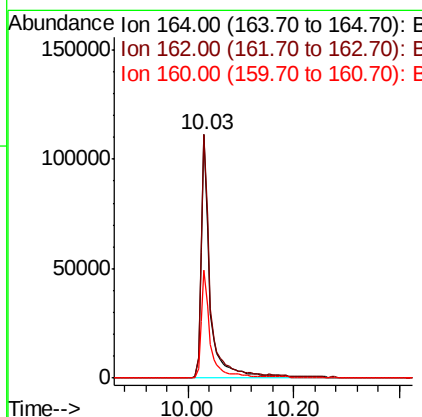
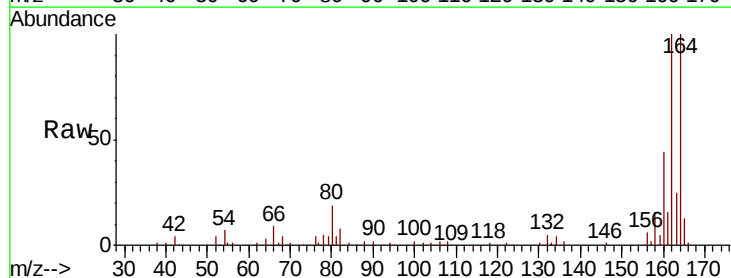
Instrument :
 BNA_F
 ClientSampleID :

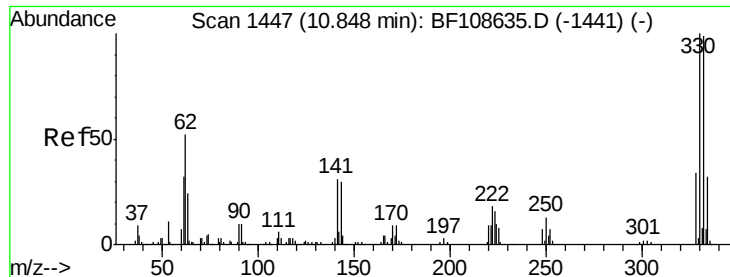
Tot Ion: 82 Resp: 9522
 Ion Ratio Lower Upper
 82 100
 128 31.9 36.1 54.1#
 54 56.3 41.4 62.2



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.03 min Scan# 1308
 Delta R.T. -0.02 min
 Lab File: BF108768.D
 Acq: 5 Sep 2018 6:02

Tgt Ion: 164 Resp: 132935
 Ion Ratio Lower Upper
 164 100
 162 99.9 86.1 129.1
 160 44.4 38.3 57.5

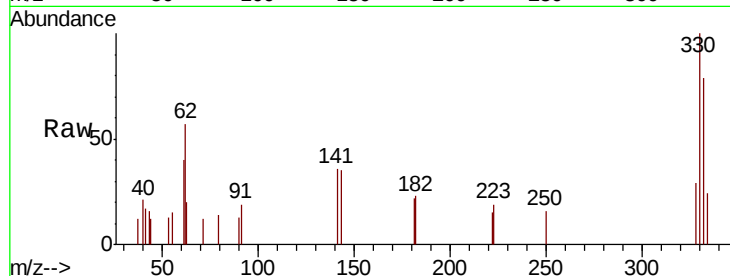




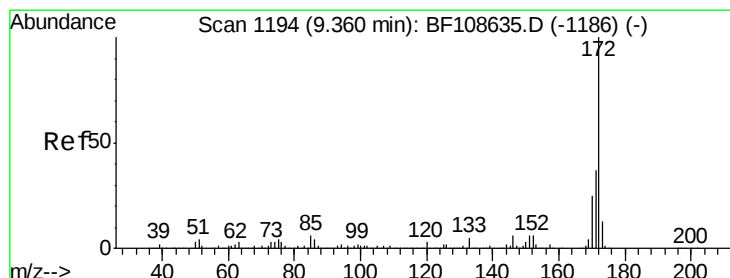
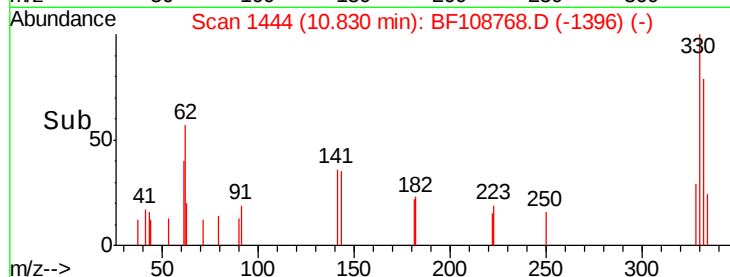
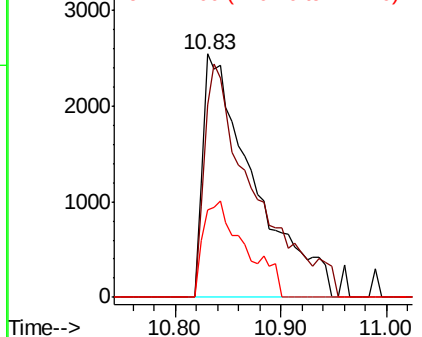
#41
 2,4,6-Tribromophenol
 Concen: 4.862 ng
 RT: 10.83 min Scan# 1444
 Delta R.T. -0.02 min
 Lab File: BF108768.D
 Acq: 5 Sep 2018 6:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 8532
 Ion Ratio Lower Upper
 330 100
 332 89.3 77.0 115.6
 141 28.2 29.9 44.9#

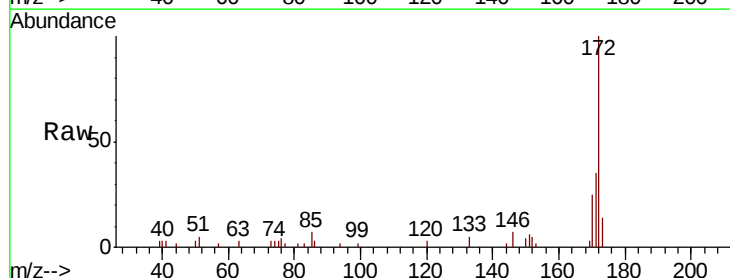


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

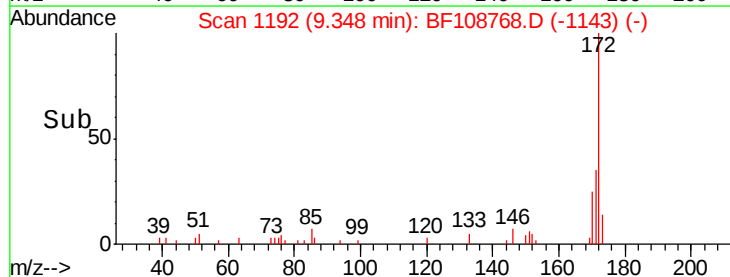
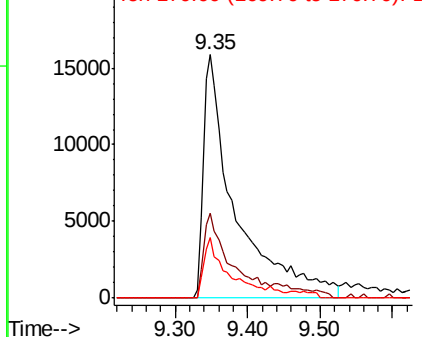


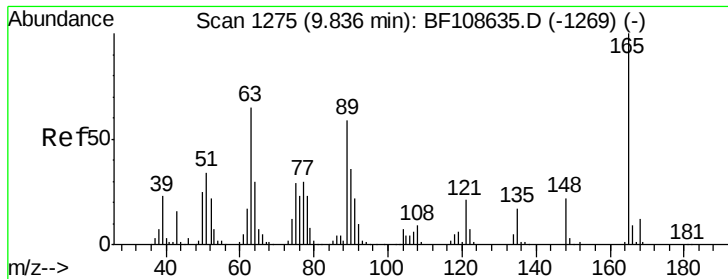
#44
 2-Fluorobiphenyl
 Concen: 4.942 ng
 RT: 9.35 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: BF108768.D
 Acq: 5 Sep 2018 6:02

Tgt Ion:172 Resp: 48856
 Ion Ratio Lower Upper
 172 100
 171 34.8 29.7 44.5
 170 25.1 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: 6.712 ng

RT: 10.03 min Scan# 1308

Delta R.T. 0.19 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

Instrument :

BNA_F

ClientSampleId :

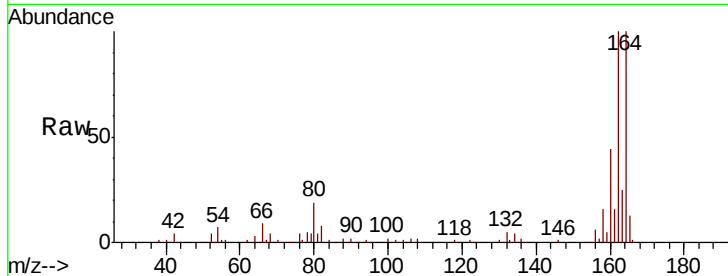
Tot Ion:165 Resp: 15487

Ion Ratio Lower Upper

165 100

63 0.0 44.7 67.1#

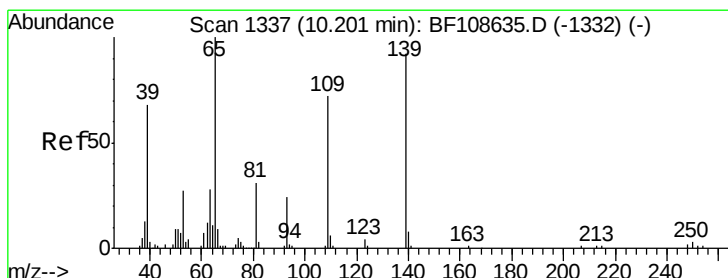
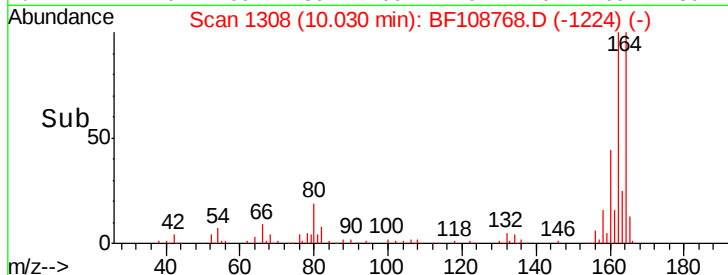
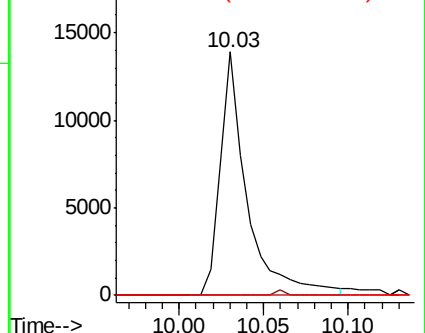
89 0.0 44.0 66.0#



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



#55

4-Nitrophenol

Concen: 5.090 ng

RT: 10.27 min Scan# 1348

Delta R.T. 0.06 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

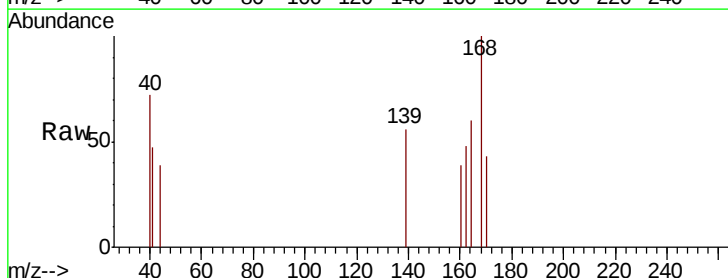
Tgt Ion:139 Resp: 560

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

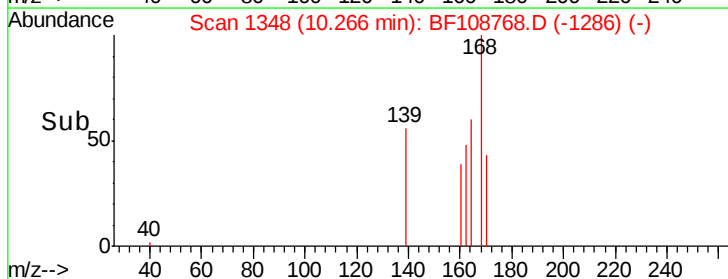
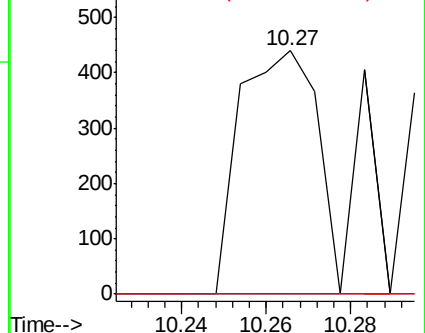
65 0.0 72.6 112.6#

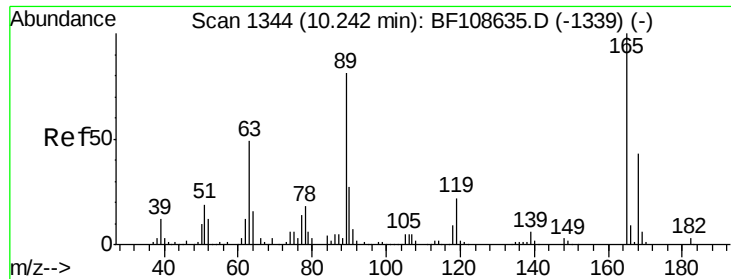


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

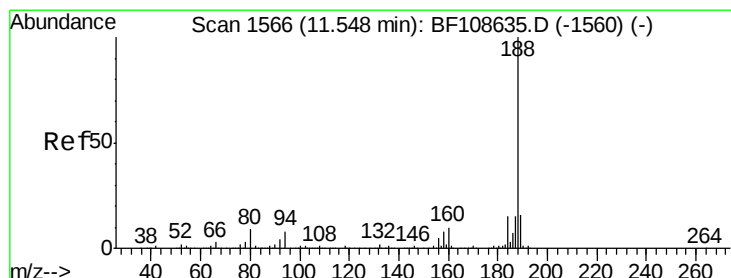
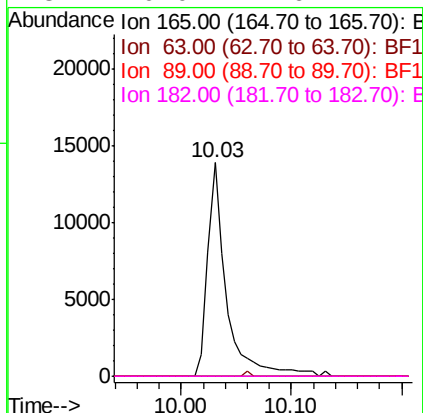
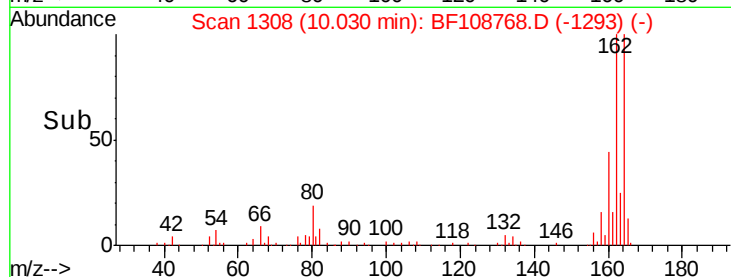
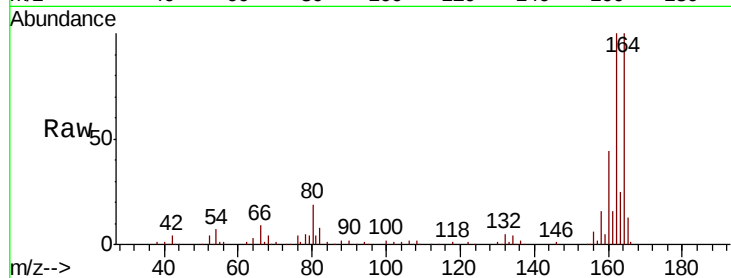




#56
 2,4-Dinitrotoluene
 Concen: 5.268 ng
 RT: 10.03 min Scan# 1308
 Delta R.T. -0.21 min
 Lab File: BF108768.D
 Acq: 5 Sep 2018 6:02

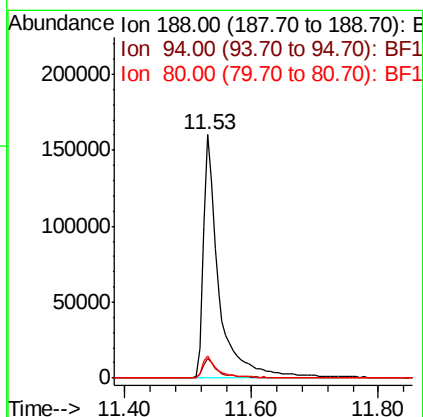
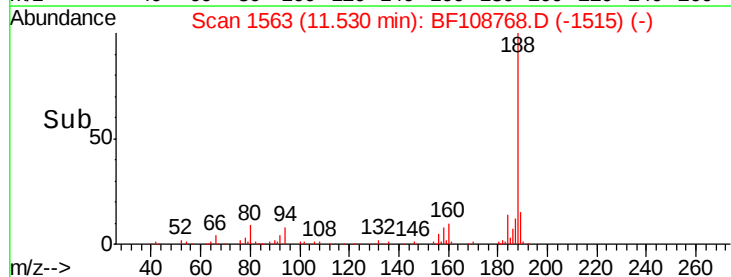
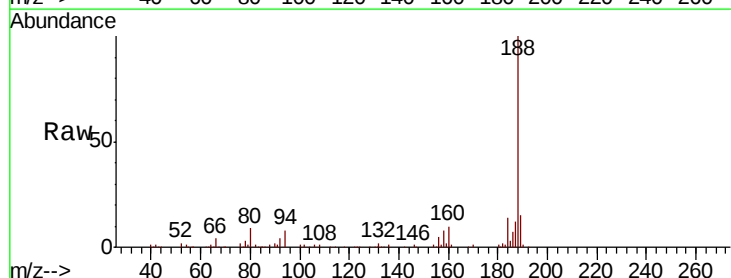
Instrument :
 BNA_F
 ClientSampleId :

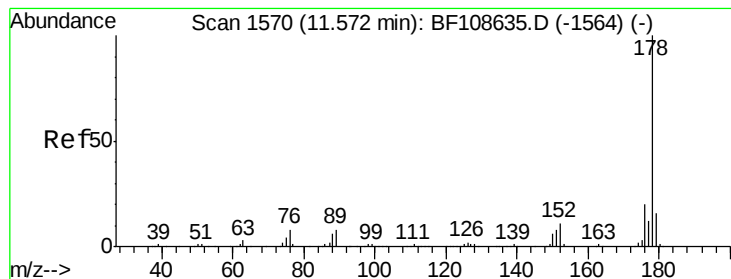
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.4	54.6#
89	0.0	57.8	86.6#
182	0.0	1.6	2.4#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.53 min Scan# 1563
 Delta R.T. -0.02 min
 Lab File: BF108768.D
 Acq: 5 Sep 2018 6:02

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.9	8.5	12.7#
80	9.3	9.2	13.8





#70

Phenanthrene

Concen: 3.348 ng

RT: 11.55 min Scan# 1567

Delta R.T. -0.02 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

Instrument :

BNA_F

ClientSampleId :

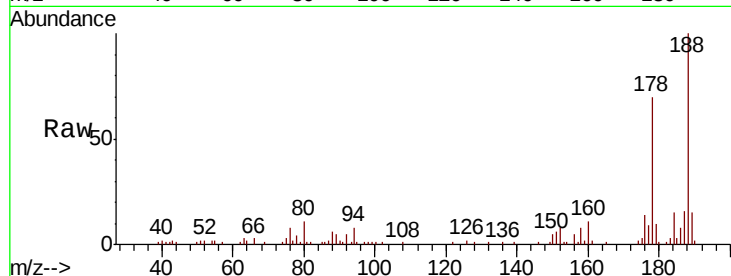
Tot Ion:178 Resp: 46115

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

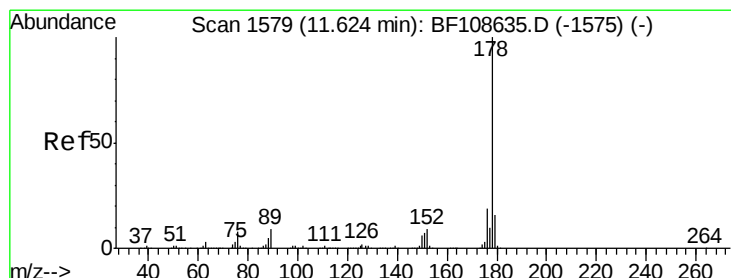
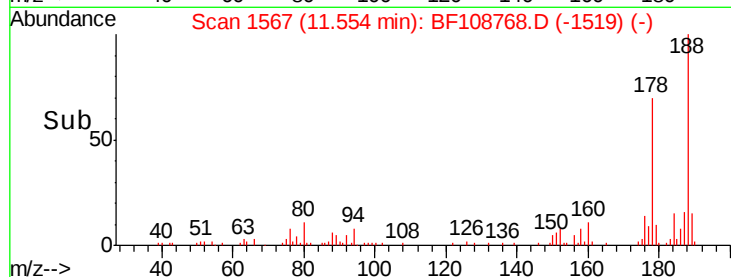
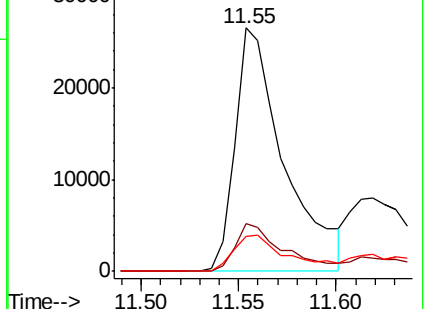
179 14.3 13.0 19.6



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: 3.186 ng

RT: 11.55 min Scan# 1567

Delta R.T. -0.07 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

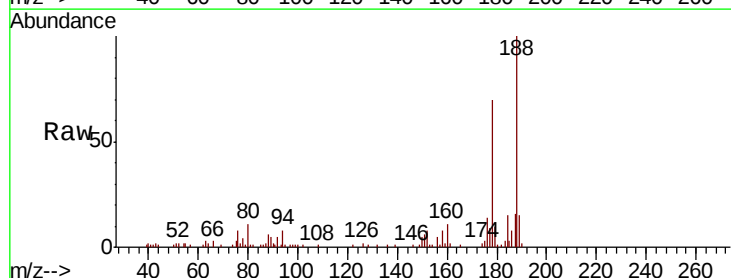
Tgt Ion:178 Resp: 46115

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

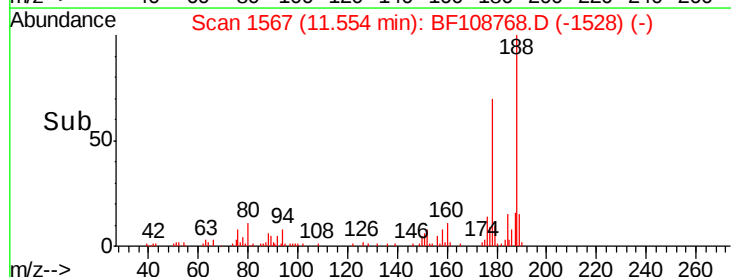
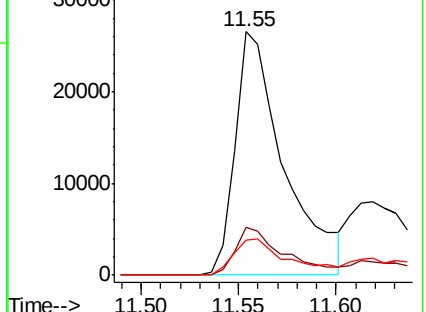
179 14.3 12.6 19.0

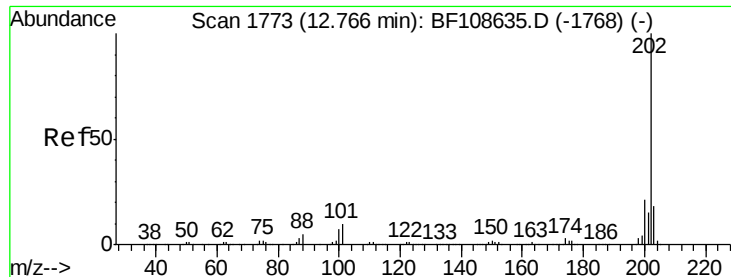


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 4.568 ng

RT: 12.75 min Scan# 1770

Delta R.T. -0.02 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

Instrument :

BNA_F

ClientSampleId :

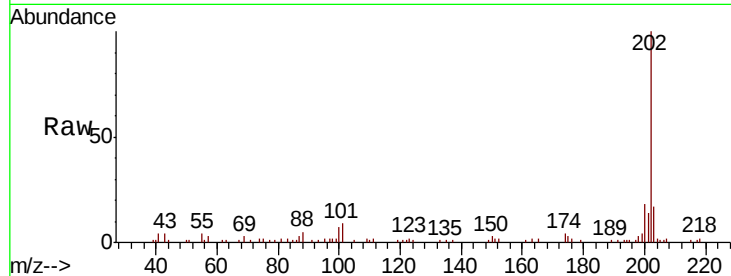
Tot Ion:202 Resp: 70835

Ion Ratio Lower Upper

202 100

101 9.2 0.0 34.1

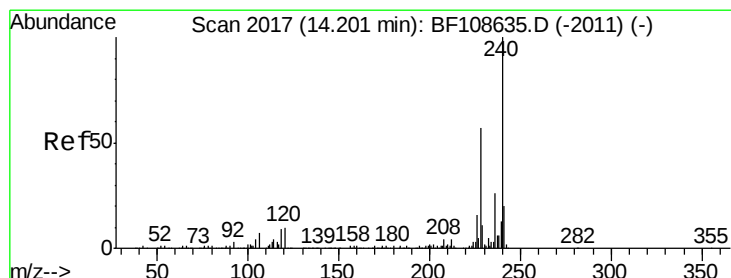
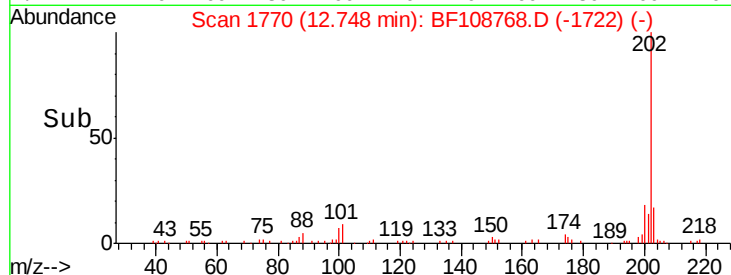
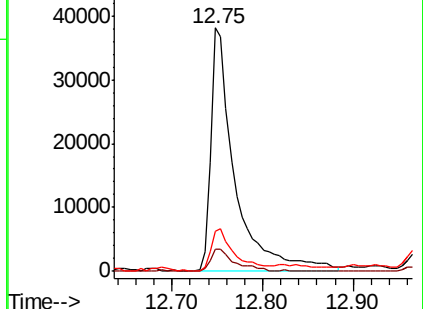
203 16.6 0.0 38.1



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: 14.18 min Scan# 2014

Delta R.T. -0.02 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

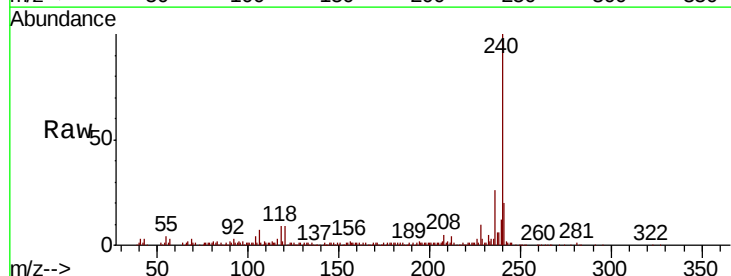
Tgt Ion:240 Resp: 185266

Ion Ratio Lower Upper

240 100

120 9.1 9.5 14.3#

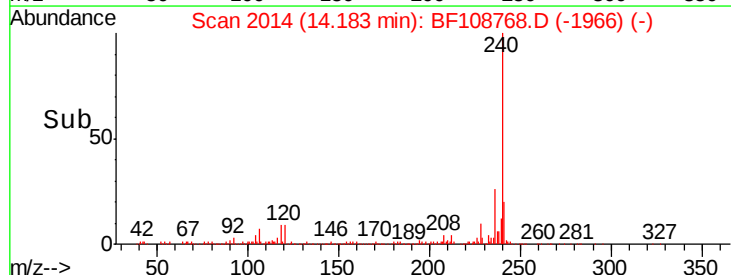
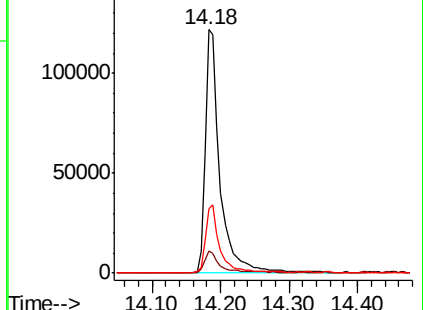
236 26.2 20.7 31.1

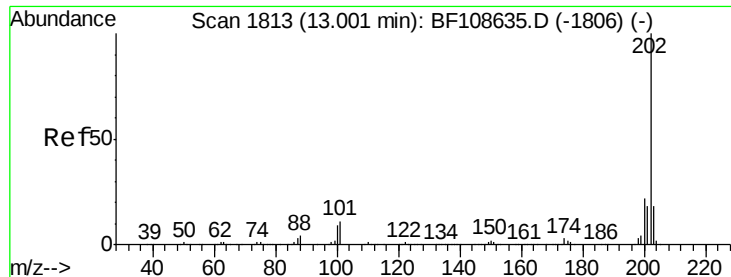


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 5.086 ng

RT: 12.75 min Scan# 1770

Delta R.T. -0.25 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

Instrument :

BNA_F

ClientSampleId :

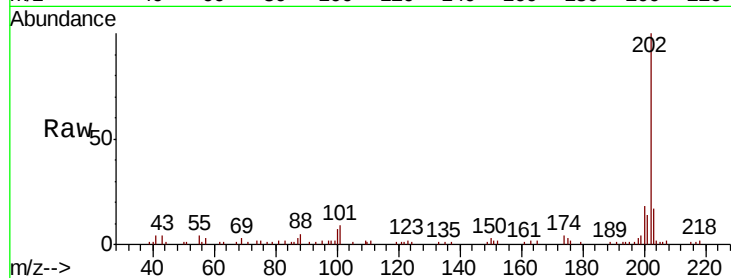
Tot Ion:202 Resp: 70835

Ion Ratio Lower Upper

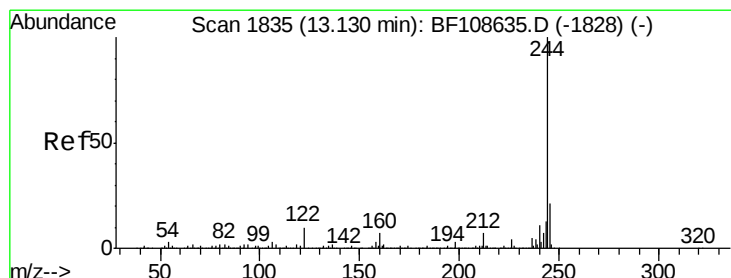
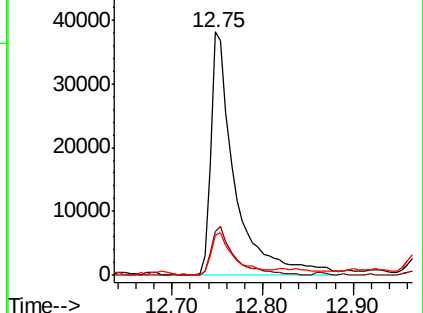
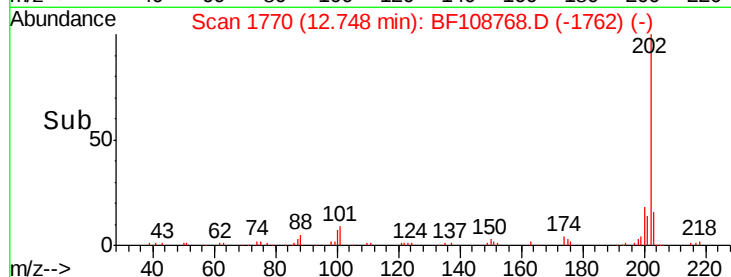
202 100

200 18.1 17.4 26.2

203 16.6 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: 6.447 ng

RT: 13.11 min Scan# 1832

Delta R.T. -0.02 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

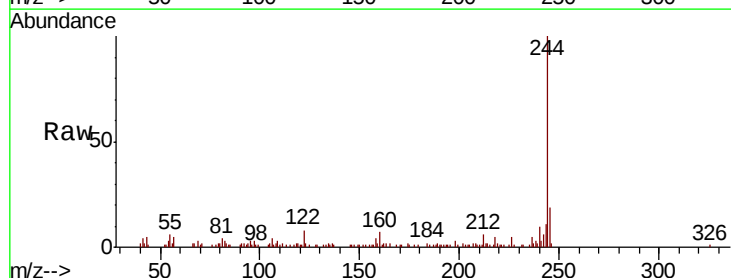
Tgt Ion:244 Resp: 61470

Ion Ratio Lower Upper

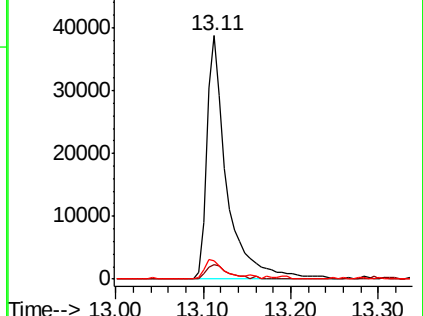
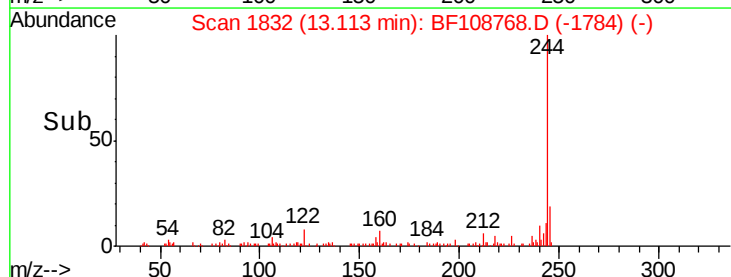
244 100

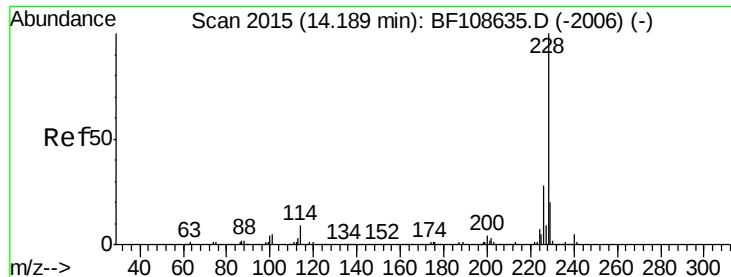
212 6.0 5.4 8.0

122 7.6 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: 2.514 ng

RT: 14.18 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

Instrument :

BNA_F

ClientSampleId :

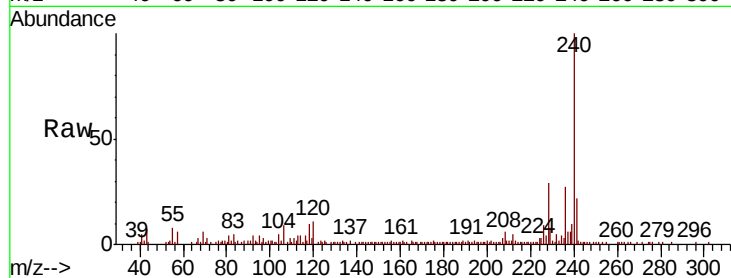
Tot Ion:228 Resp: 28392

Ion Ratio Lower Upper

228 100

226 30.4 22.6 33.8

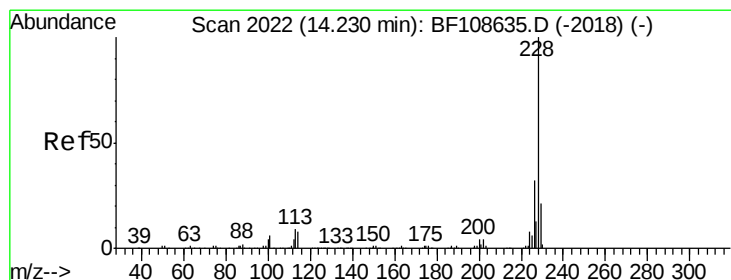
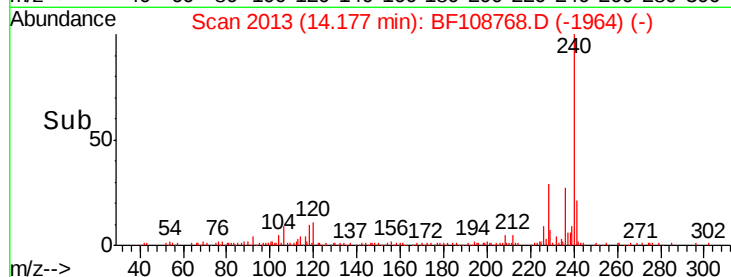
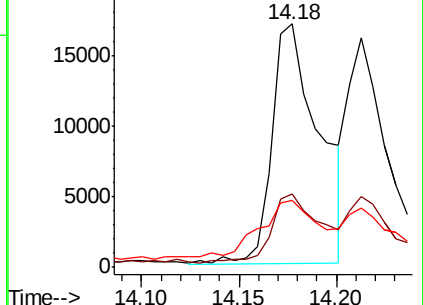
229 27.3 15.8 23.6#



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: 2.100 ng

RT: 14.21 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

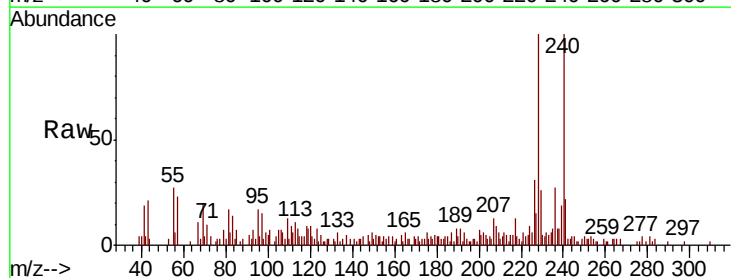
Tgt Ion:228 Resp: 22812

Ion Ratio Lower Upper

228 100

226 30.9 25.0 37.6

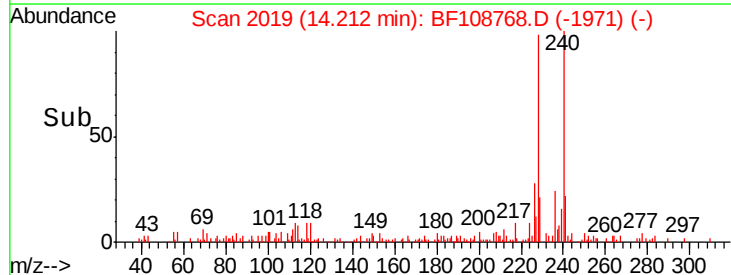
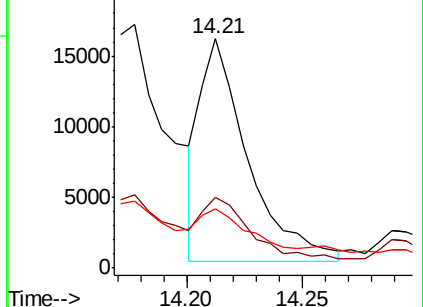
229 26.0 16.2 24.4#

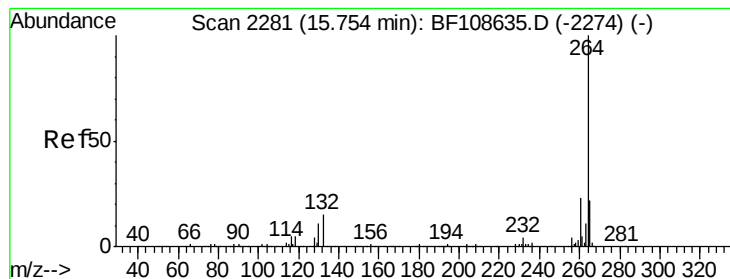


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.74 min Scan# 2279

Delta R.T. -0.01 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

Instrument :

BNA_F

ClientSampleId :

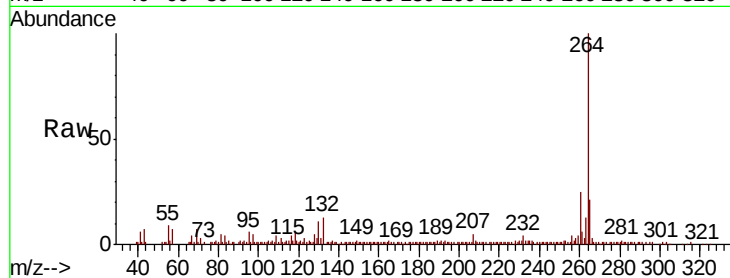
Tot Ion:264 Resp: 141356

Ion Ratio Lower Upper

264 100

260 24.7 19.2 28.8

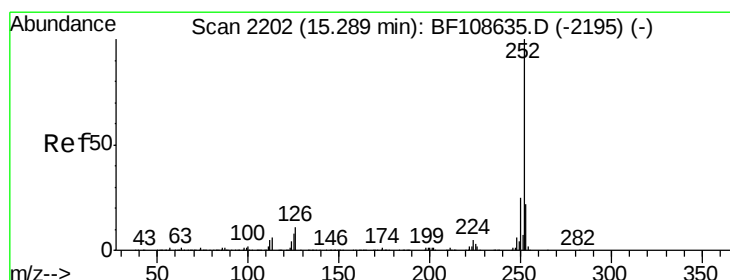
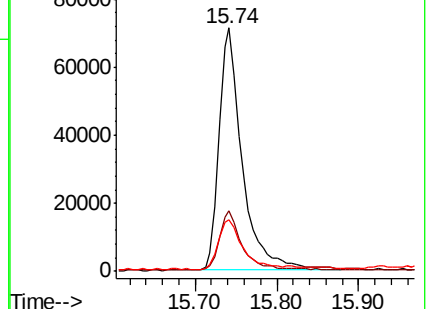
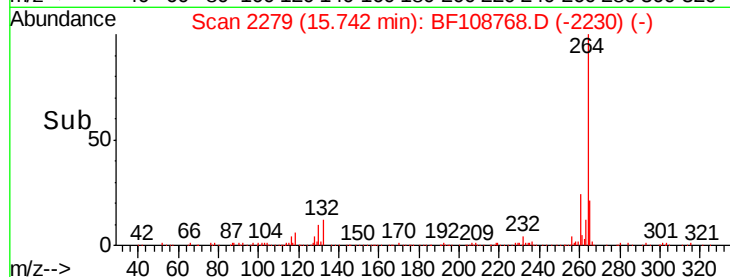
265 21.4 17.5 26.3



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: 4.272 ng

RT: 15.28 min Scan# 2200

Delta R.T. -0.01 min

Lab File: BF108768.D

Acq: 5 Sep 2018 6:02

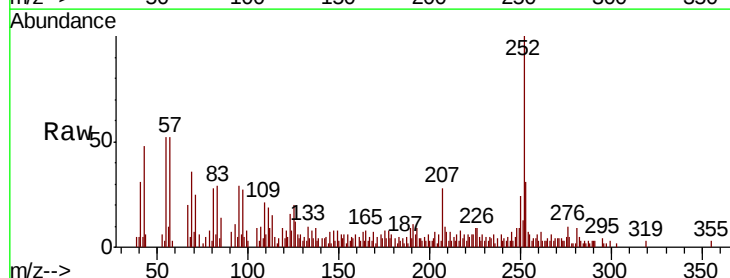
Tgt Ion:252 Resp: 37097

Ion Ratio Lower Upper

252 100

253 30.7 17.0 25.6#

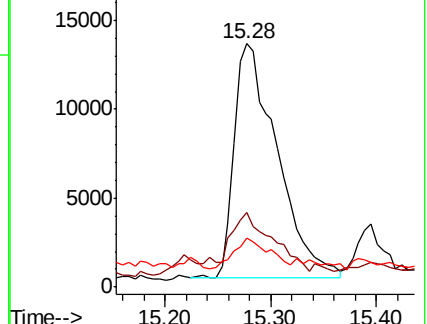
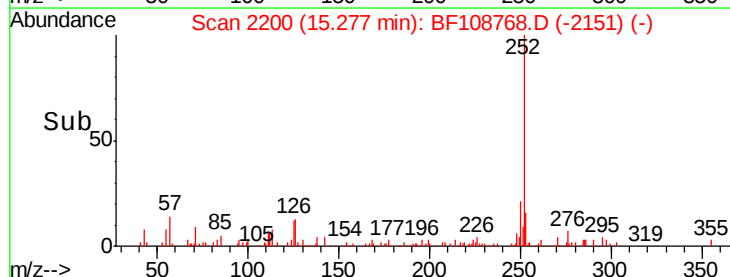
125 20.2 9.0 13.6#

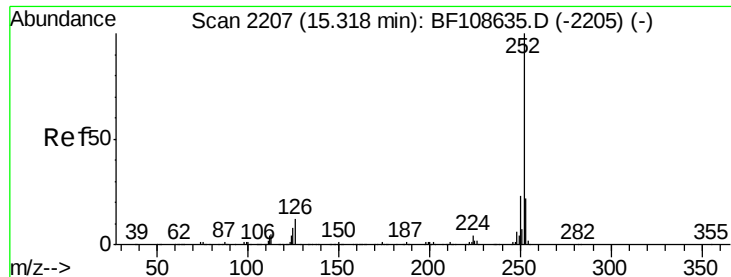


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

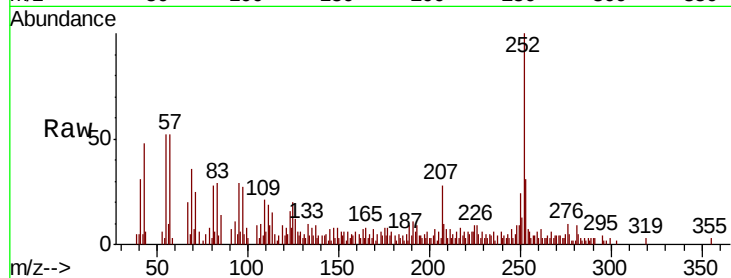




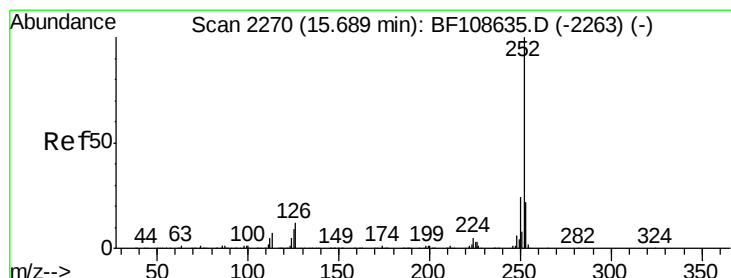
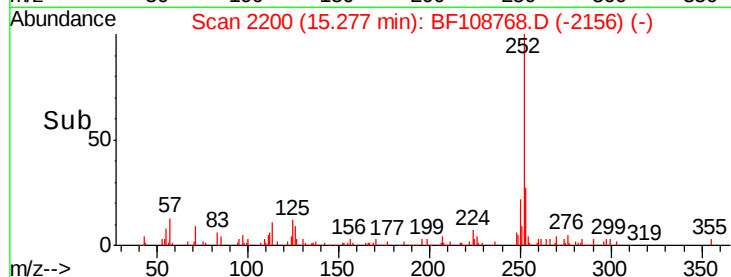
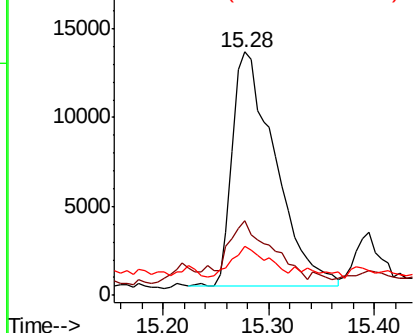
#88
Benzo(k)fluoranthene
Concen: 4.313 ng
RT: 15.28 min Scan# 2200
Delta R.T. -0.04 min
Lab File: BF108768.D
Acq: 5 Sep 2018 6:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	30.7	17.9	26.9#
125	20.2	10.2	15.2#

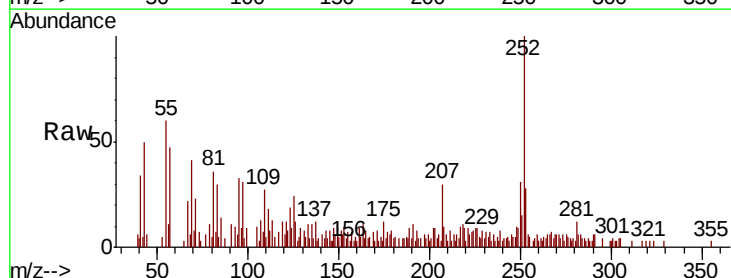


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89
Benzo(a)pyrene
Concen: 2.814 ng
RT: 15.68 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF108768.D
Acq: 5 Sep 2018 6:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.3	17.1	25.7#
125	24.0	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

