

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072418\
 Data File : BF107646.D
 Acq On : 25 Jul 2018 5:20
 Operator : JU/SJ
 Sample : J4096-02DL 2X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 25 07:50:47 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	234998	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	912021	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	346976	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	571520	20.00	ng	-0.01
75) Chrysene-d12	14.15	240	428829	20.00	ng	-0.01
86) Perylene-d12	15.69	264	394974	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	599922	41.05	ng	-0.01
7) Phenol-d6	6.60	99	797884	45.46	ng	-0.02
23) Nitrobenzene-d5	7.53	82	464048	34.34	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	143206	36.29	ng	-0.02
44) 2-Fluorobiphenyl	9.32	172	799398	31.93	ng	-0.02
78) Terphenyl-d14	13.08	244	604513	36.09	ng	-0.02

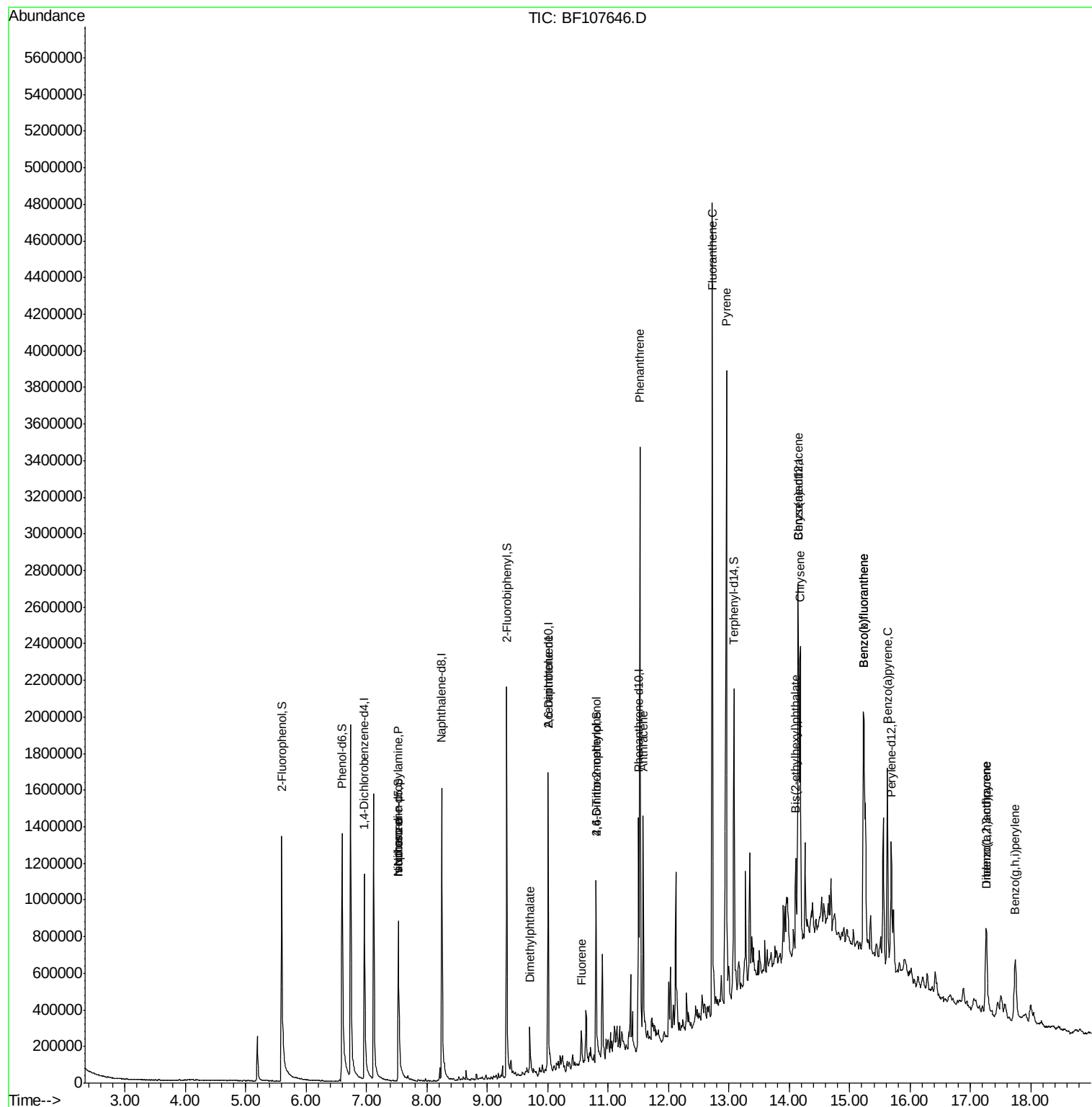
Target Compounds				Qvalue		
9) Benzaldehyde	6.74	77	13914	Below Cal		84
19) n-Nitroso-di-n-propylamine	7.53	70	60247	5.314 ng	#	80
25) Isophorone	7.53	82	464048	16.082 ng	#	64
49) Dimethylphthalate	9.71	163	55525	2.123 ng		98
50) 2,6-Dinitrotoluene	10.01	165	45762	8.814 ng	#	25
57) Fluorene	10.56	166	70452	3.085 ng		97
64) 4,6-Dinitro-2-methylphenol	10.80	198	116	8.715 ng	#	1
70) Phenanthrene	11.53	178	1380344	49.563 ng		99
71) Anthracene	11.58	178	617779	22.031 ng		99
73) Di-n-butylphthalate	12.05	149	3945	Below Cal	#	40
74) Fluoranthene	12.72	202	2236348	74.831 ng		97
77) Pyrene	12.96	202	1854709	63.231 ng		98
80) Benzo(a)anthracene	14.15	228	745087	29.649 ng		98
81) 3,3'-Dichlorobenzidine	14.09	252	443	Below Cal	#	1
82) Chrysene	14.18	228	784521	32.499 ng		98
83) Bis(2-ethylhexyl)phthalate	14.11	149	135525	7.614 ng		100
85) Indeno(1,2,3-cd)pyrene	17.26	276	395243	19.318 ng	#	87
87) Benzo(b)fluoranthene	15.23	252	1274299	58.950 ng		97
88) Benzo(k)fluoranthene	15.23	252	1274299	60.170 ng		98
89) Benzo(a)pyrene	15.62	252	614195	31.062 ng		98
90) Dibenzo(a,h)anthracene	17.27	278	75727	4.430 ng		99
91) Benzo(g,h,i)perylene	17.74	276	355531	21.087 ng		93

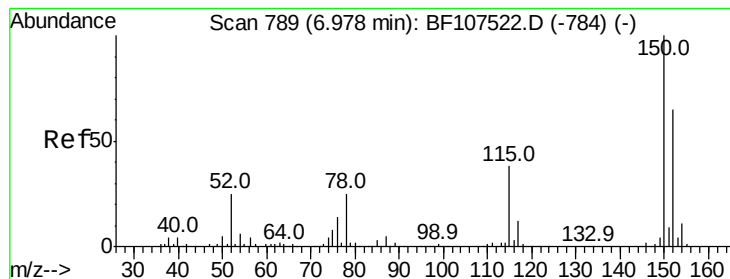
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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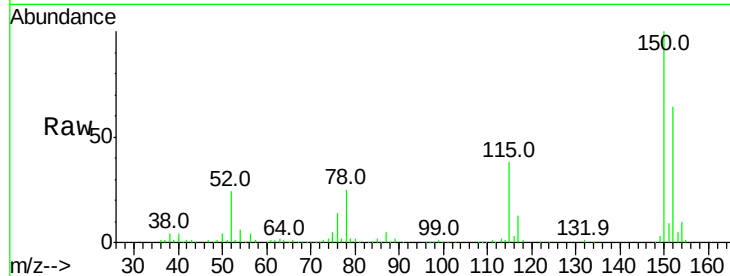


#1

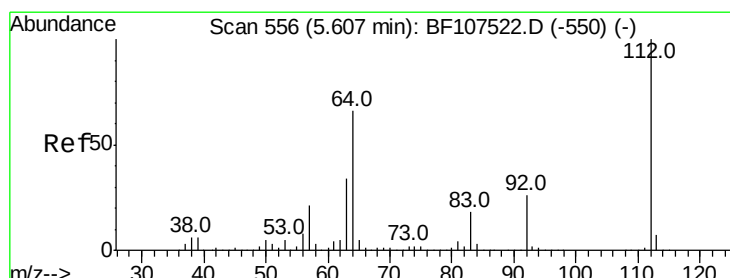
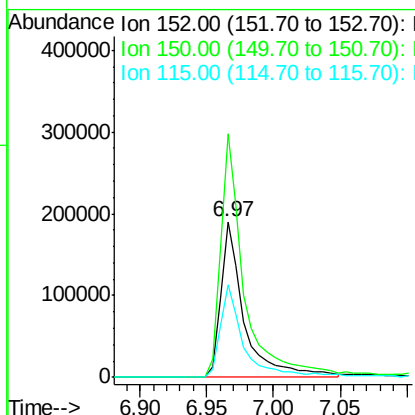
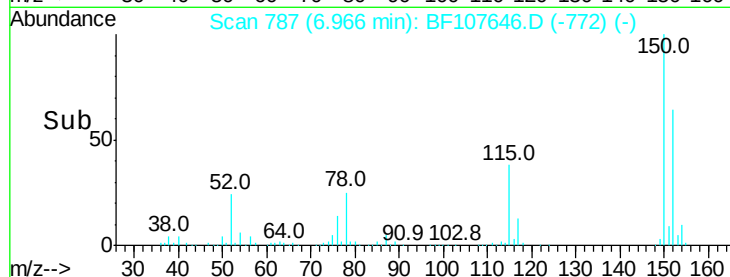
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF107646.D
Acq: 25 Jul 2018 5:20

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.6	186.8
115	59.3	50.1	75.1



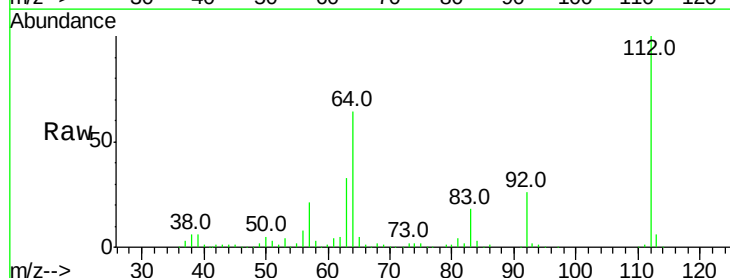
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



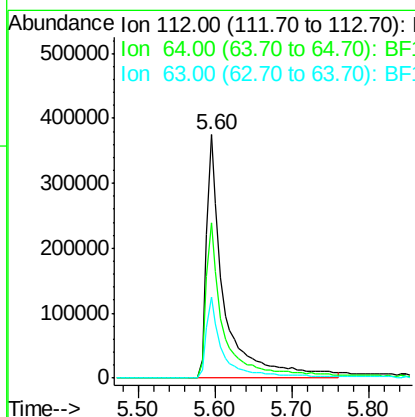
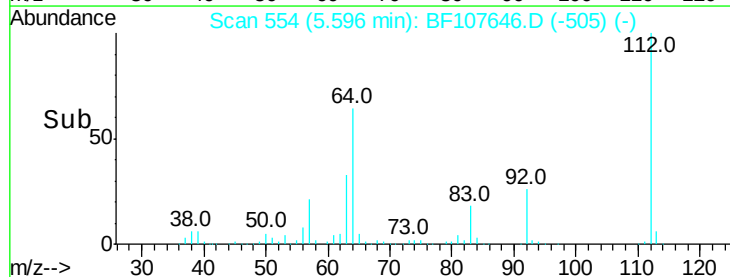
#5

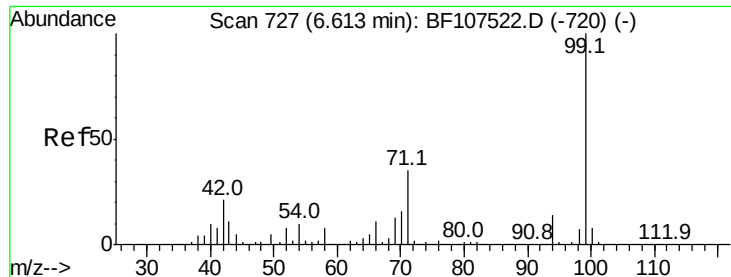
2-Fluorophenol
Concen: 41.045 ng
RT: 5.60 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF107646.D
Acq: 25 Jul 2018 5:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.7	47.9	71.9
63	33.2	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: 45.463 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampleId :

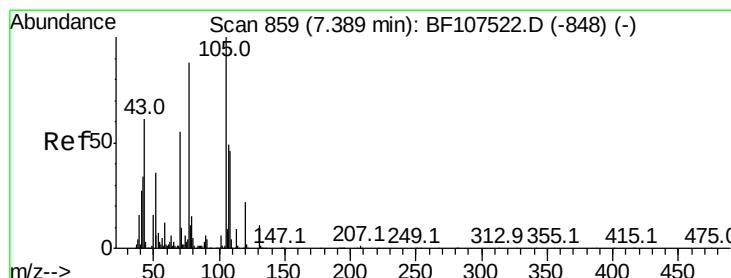
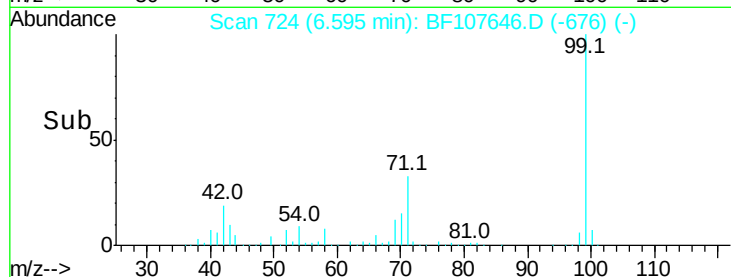
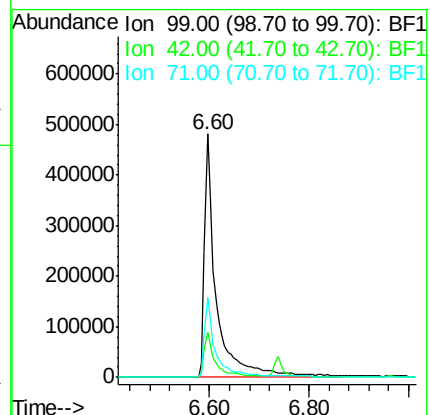
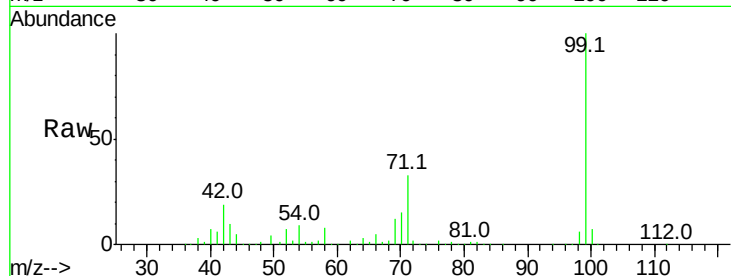
Tot Ion: 99 Resp: 797884

Ion Ratio Lower Upper

99 100

42 18.8 14.5 21.7

71 32.7 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 5.314 ng

RT: 7.53 min Scan# 883

Delta R.T. 0.14 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Tgt Ion: 70 Resp: 60247

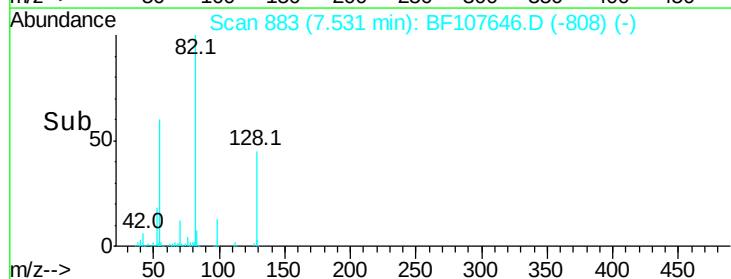
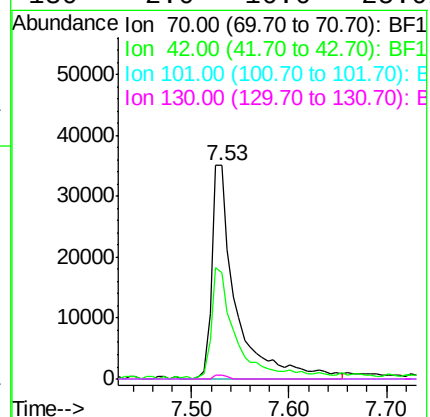
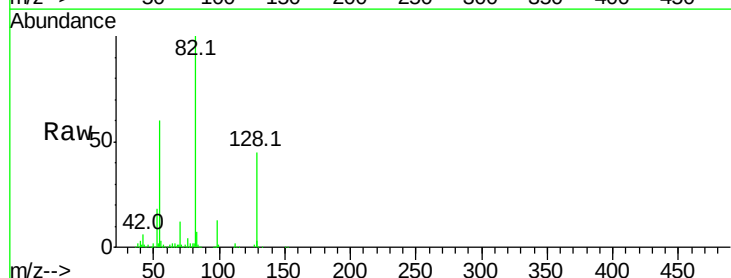
Ion Ratio Lower Upper

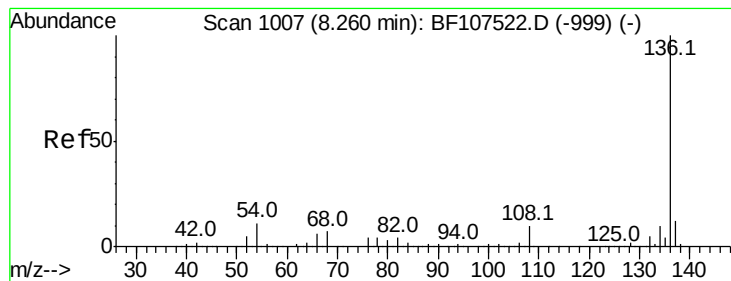
70 100

42 49.9 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 912021

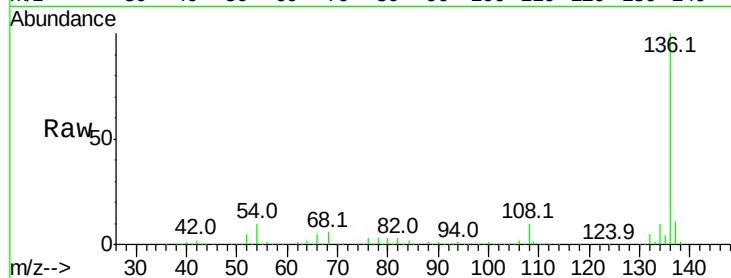
Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 9.6 6.6 9.8

68 6.0 5.0 7.4

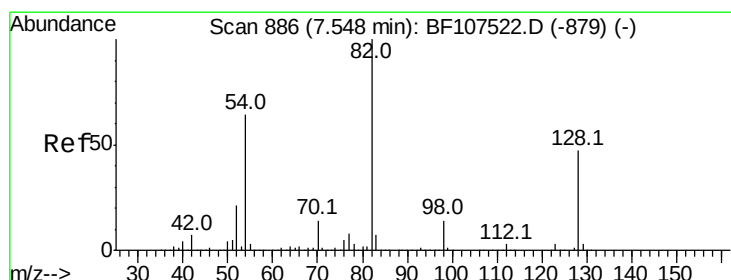
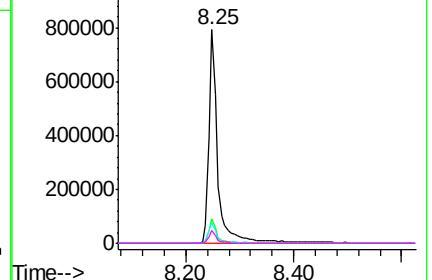
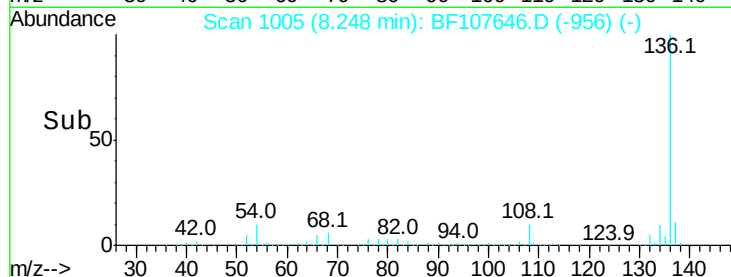


Abundance Ion 136.00 (135.70 to 136.70): E

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: 34.339 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

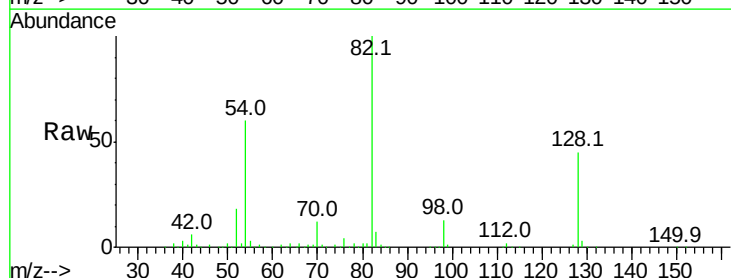
Tgt Ion: 82 Resp: 464048

Ion Ratio Lower Upper

82 100

128 45.1 36.1 54.1

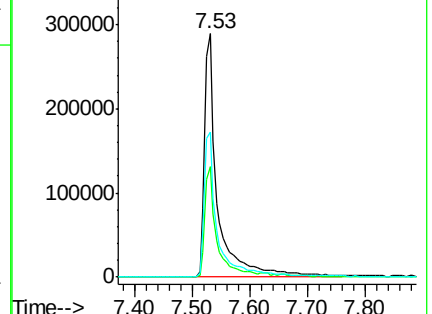
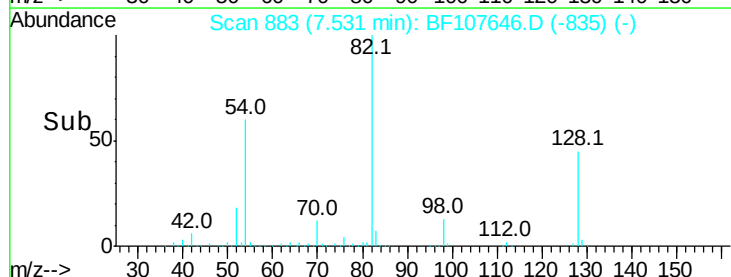
54 59.7 41.4 62.2

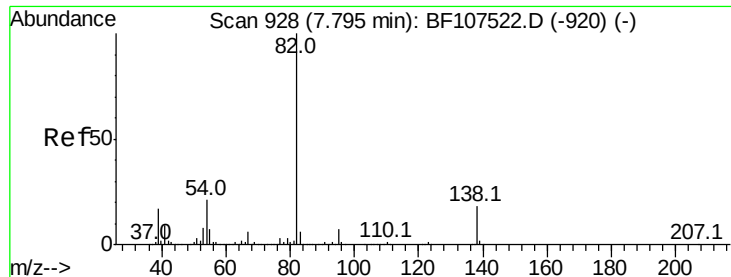


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 16.082 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampled :

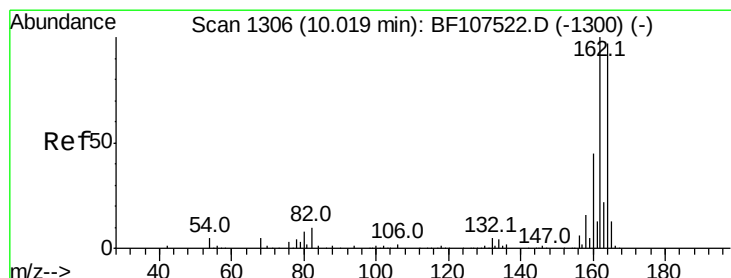
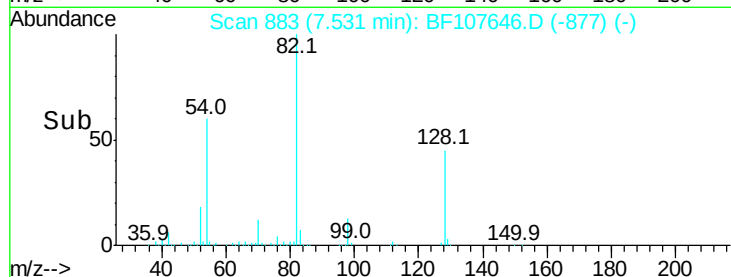
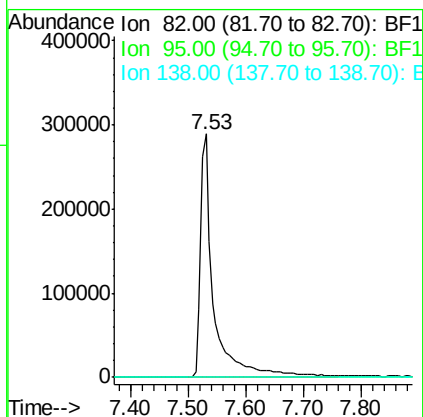
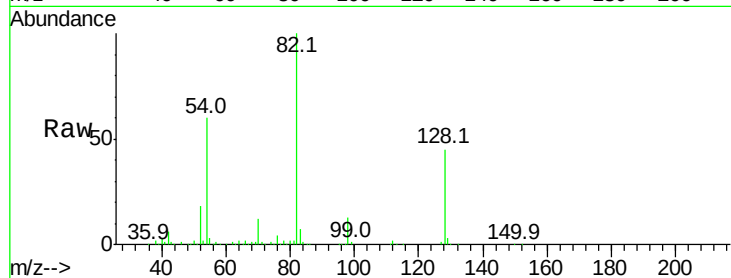
Tot Ion: 82 Resp: 464048

Ion Ratio Lower Upper

82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

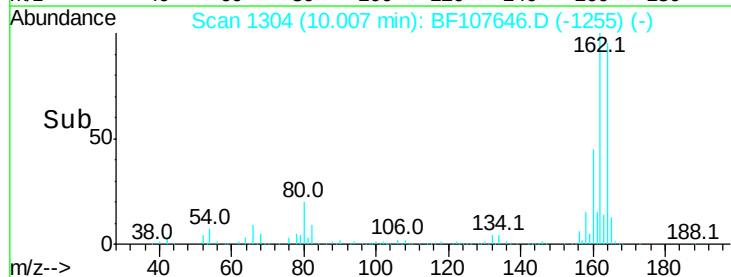
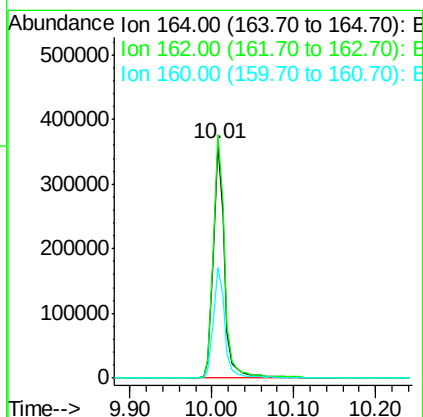
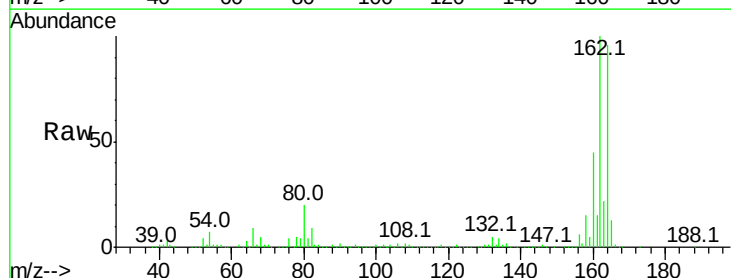
Tgt Ion: 164 Resp: 346976

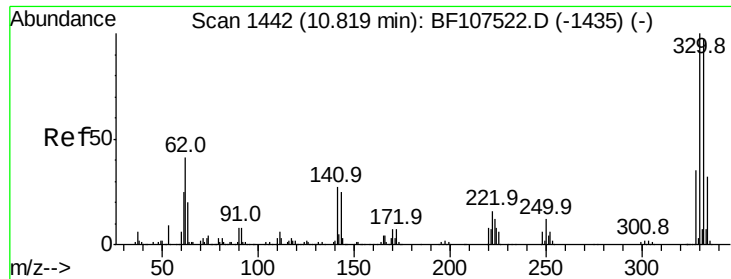
Ion Ratio Lower Upper

164 100

162 104.2 86.1 129.1

160 47.3 38.3 57.5

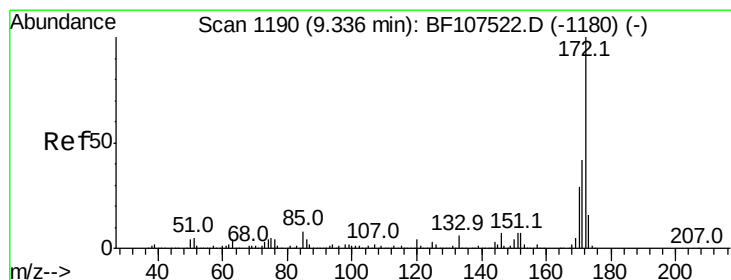
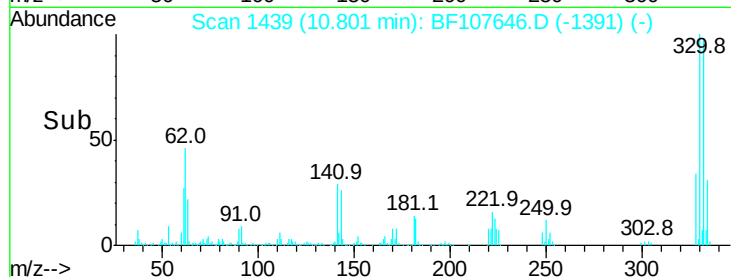
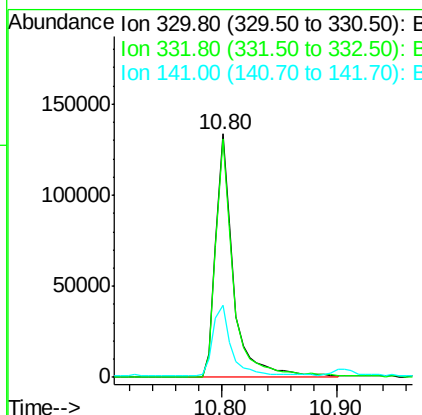
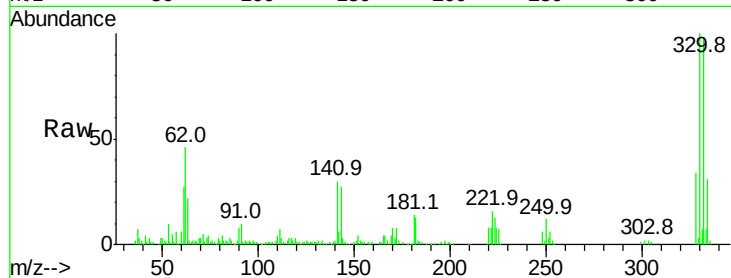




#41
 2,4,6-Tribromophenol
 Concen: 36.295 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. -0.02 min
 Lab File: BF107646.D
 Acq: 25 Jul 2018 5:20

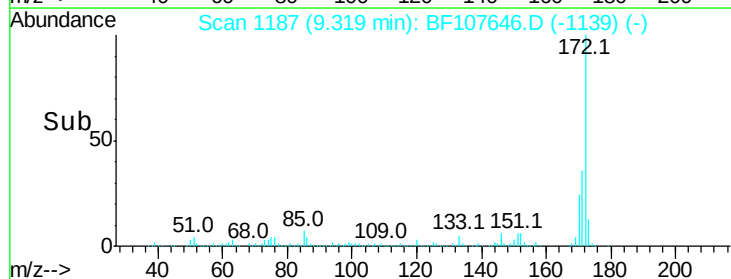
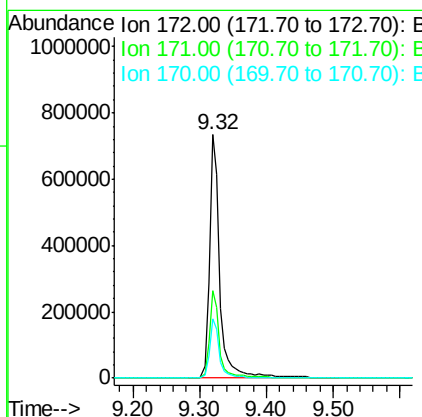
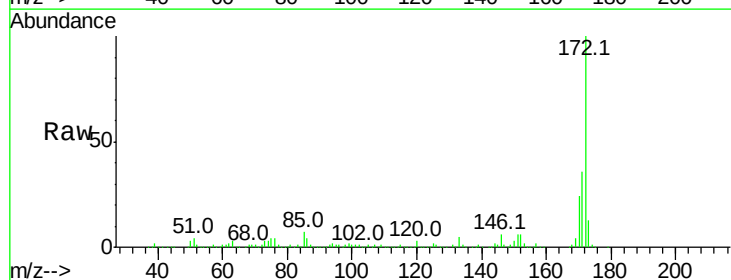
Instrument :
 BNA_F
 ClientSampleId :

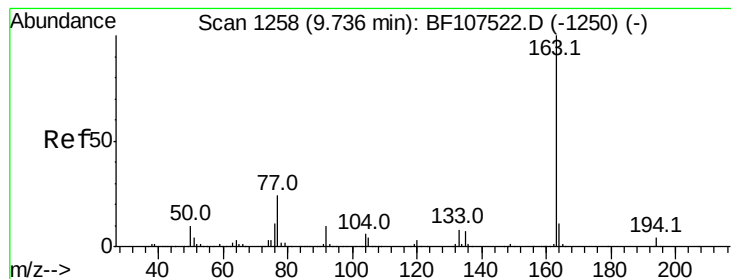
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.0	115.6
141	31.6	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 31.927 ng
 RT: 9.32 min Scan# 1187
 Delta R.T. -0.02 min
 Lab File: BF107646.D
 Acq: 25 Jul 2018 5:20

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.7	44.5
170	24.4	19.6	29.4





#49

Dimethylphthalate

Concen: 2.123 ng

RT: 9.71 min Scan# 1254

Delta R.T. -0.02 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampleId :

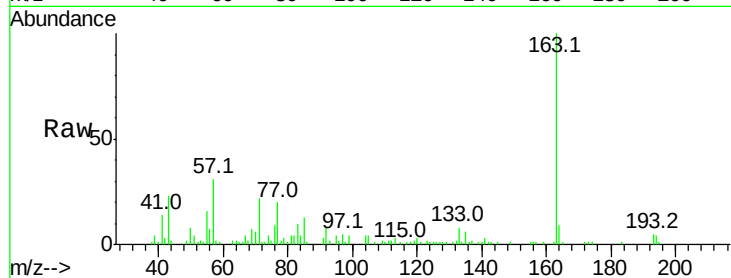
Tot Ion:163 Resp: 55525

Ion Ratio Lower Upper

163 100

194 3.9 2.7 4.1

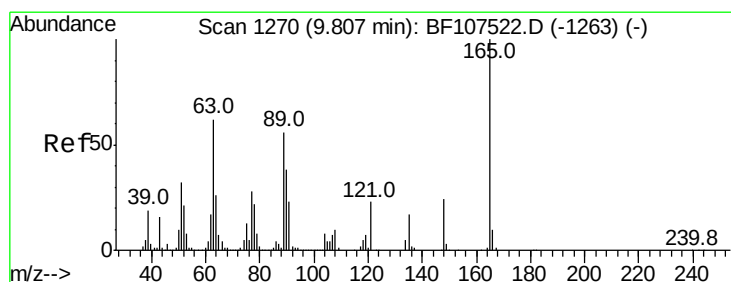
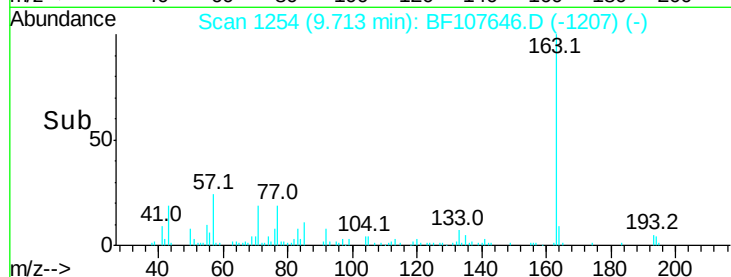
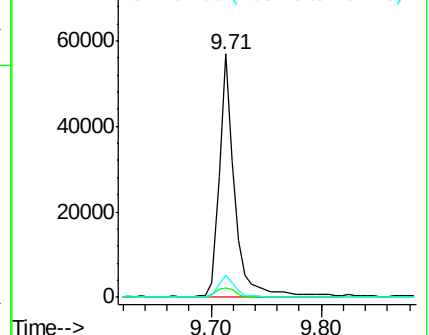
164 9.2 8.2 12.2



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: 8.814 ng

RT: 10.01 min Scan# 1304

Delta R.T. 0.20 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

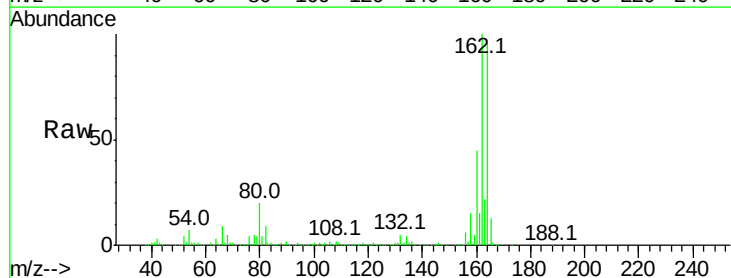
Tgt Ion:165 Resp: 45762

Ion Ratio Lower Upper

165 100

63 1.0 44.7 67.1#

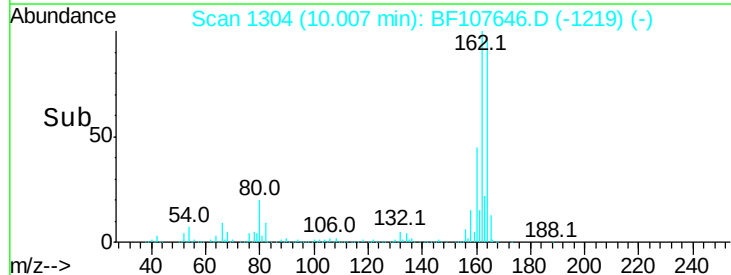
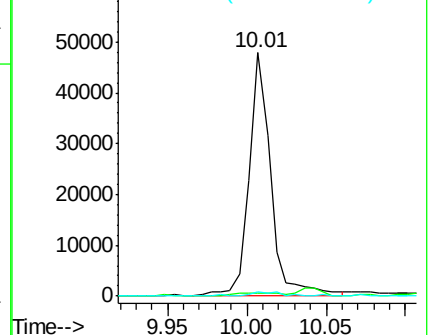
89 1.6 44.0 66.0#

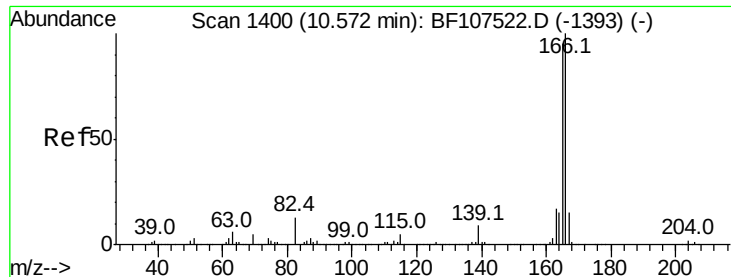


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

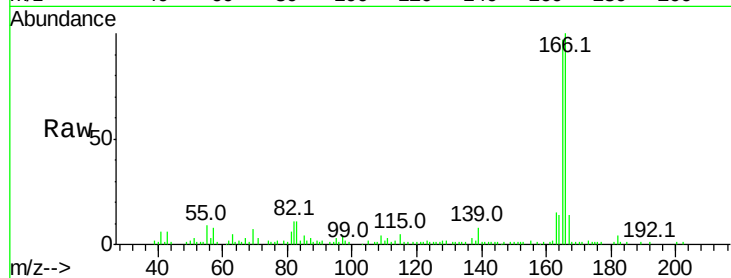




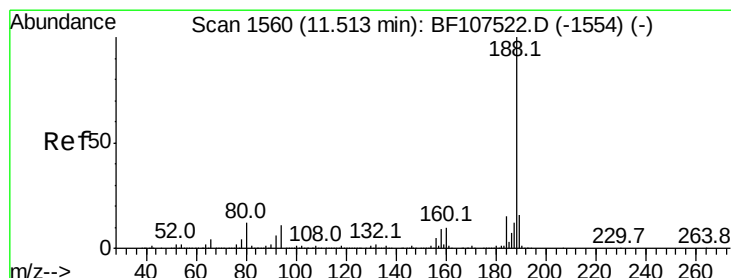
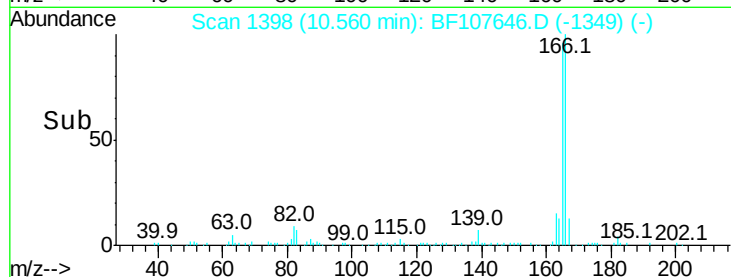
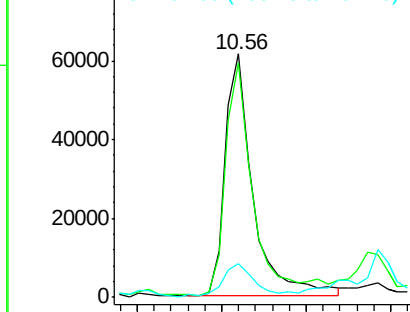
#57
 Fluorene
 Concen: 3.085 ng
 RT: 10.56 min Scan# 1398
 Delta R.T. -0.01 min
 Lab File: BF107646.D
 Acq: 25 Jul 2018 5:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 70452
 Ion Ratio Lower Upper
 166 100
 165 96.6 79.8 119.8
 167 13.9 10.6 16.0

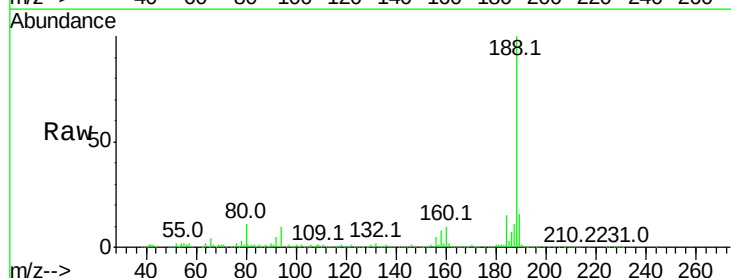


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

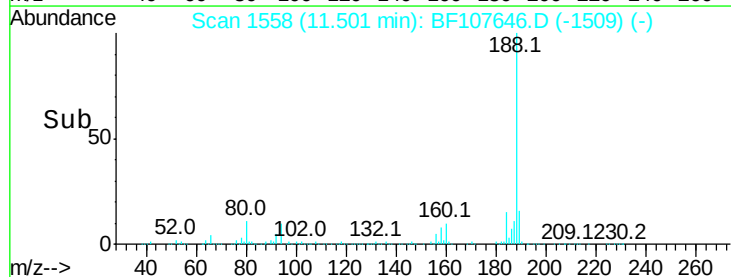
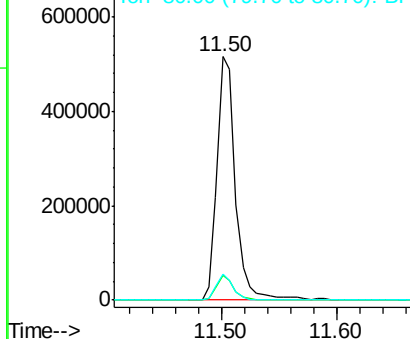


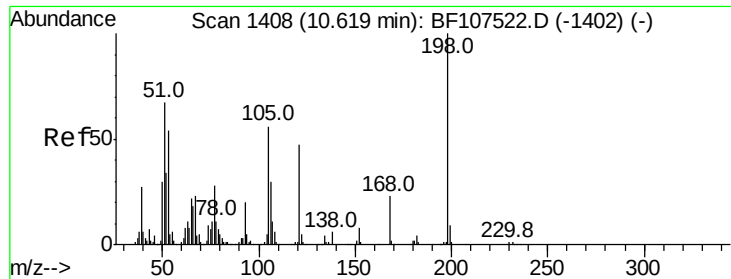
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: BF107646.D
 Acq: 25 Jul 2018 5:20

Tgt Ion:188 Resp: 571520
 Ion Ratio Lower Upper
 188 100
 94 10.1 8.5 12.7
 80 10.7 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





#64

4,6-Dinitro-2-methylphenol

Concen: 8.715 ng

RT: 10.80 min Scan# 1439

Delta R.T. 0.18 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampleId :

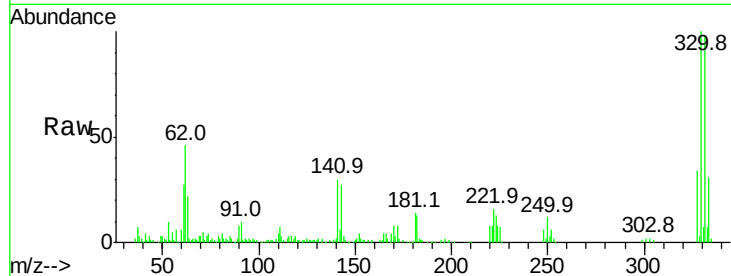
Tot Ion:198 Resp: 116

Ion Ratio Lower Upper

198 100

51 613.4 37.7 77.7#

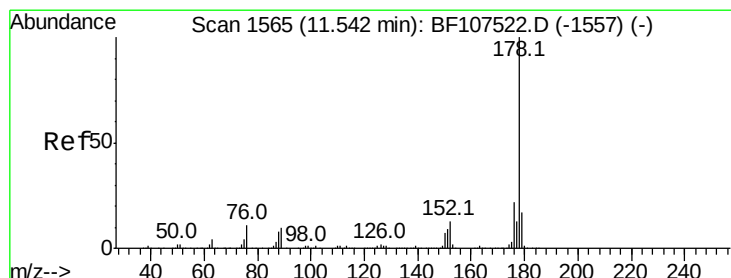
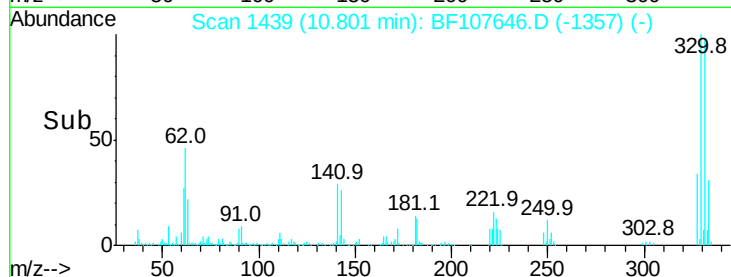
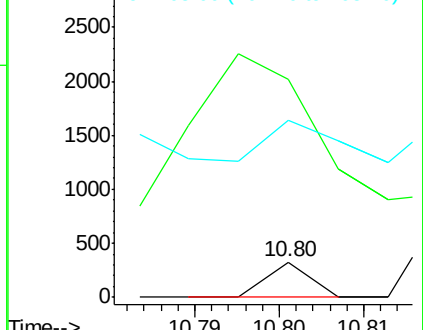
105 497.9 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.30): BF1

Ion 105.00 (104.70 to 105.30): E



#70

Phenanthrene

Concen: 49.563 ng

RT: 11.53 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

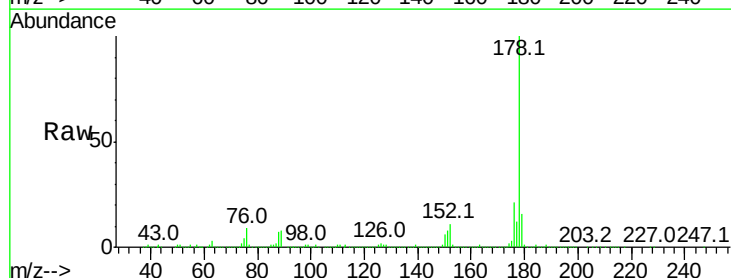
Tgt Ion:178 Resp: 1380344

Ion Ratio Lower Upper

178 100

176 20.9 15.8 23.8

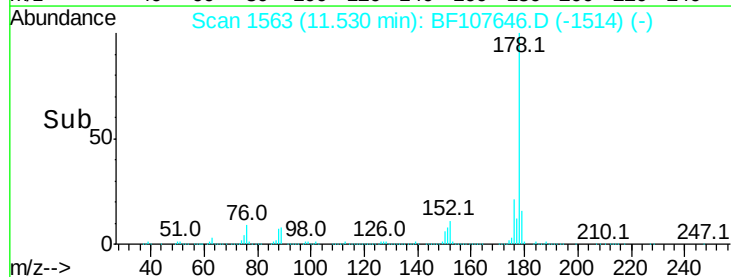
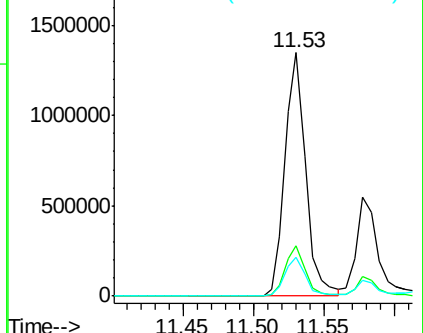
179 16.2 13.0 19.6

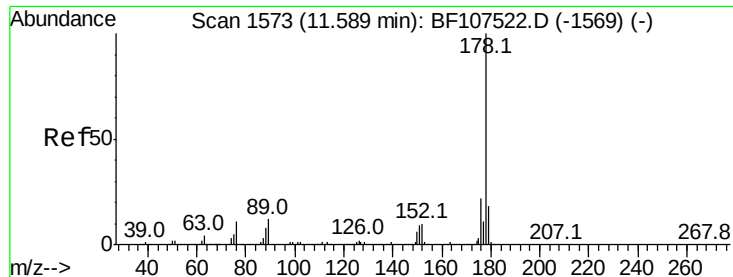


Abundance Ion 178.00 (177.70 to 178.30): E

Ion 176.00 (175.70 to 176.30): E

Ion 179.00 (178.70 to 179.30): E

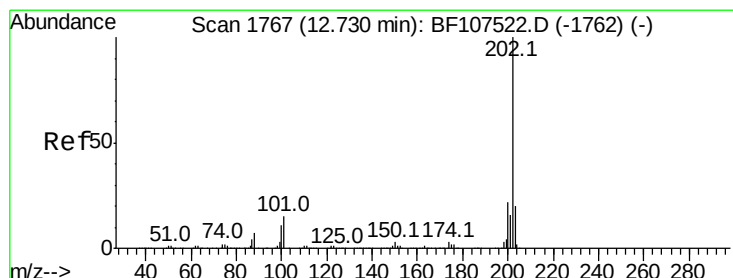
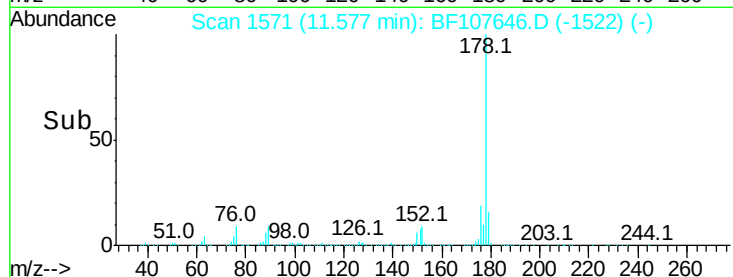
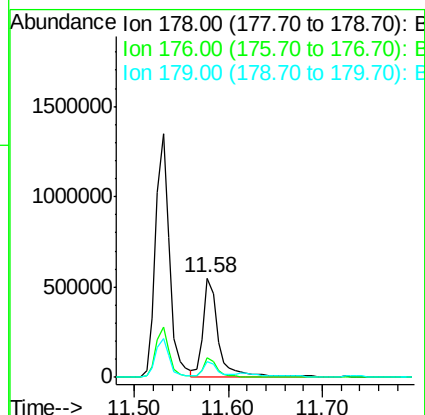
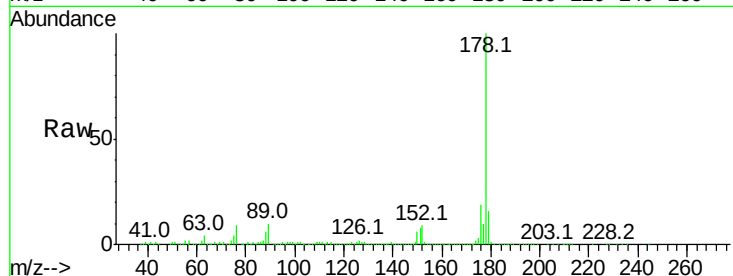




#71
 Anthracene
 Concen: 22.031 ng
 RT: 11.58 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF107646.D
 Acq: 25 Jul 2018 5:20

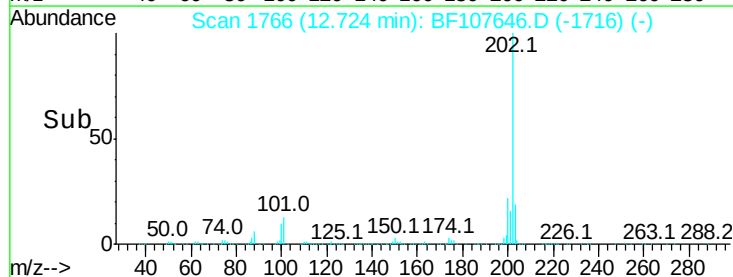
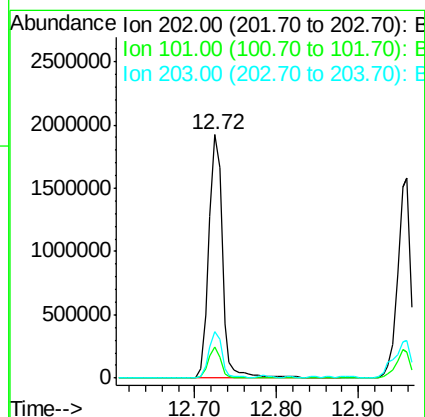
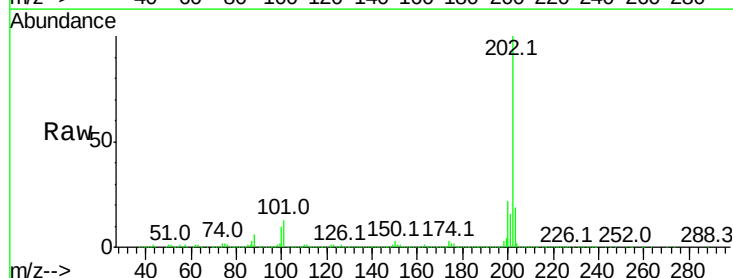
Instrument :
 BNA_F
 ClientSampleId :

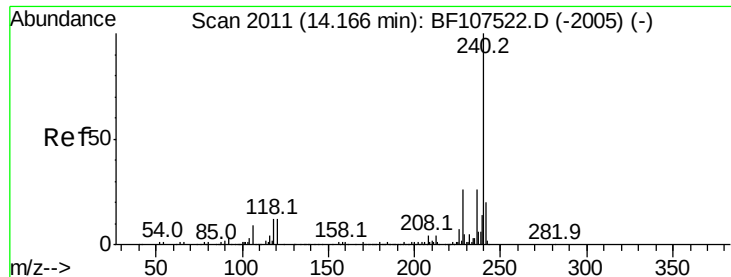
Tot Ion:178 Resp: 617779
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.4 23.2
 179 16.3 12.6 19.0



#74
 Fluoranthene
 Concen: 74.831 ng
 RT: 12.72 min Scan# 1766
 Delta R.T. -0.01 min
 Lab File: BF107646.D
 Acq: 25 Jul 2018 5:20

Tgt Ion:202 Resp: 2236348
 Ion Ratio Lower Upper
 202 100
 101 12.6 0.0 34.1
 203 19.2 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampleId :

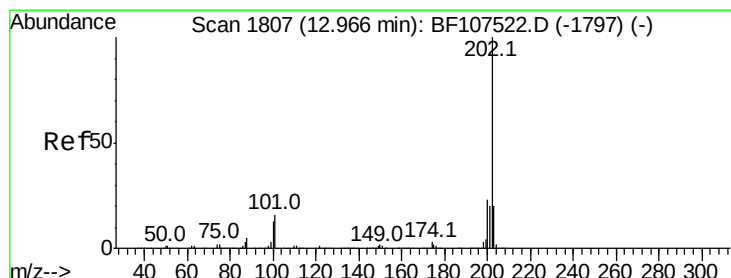
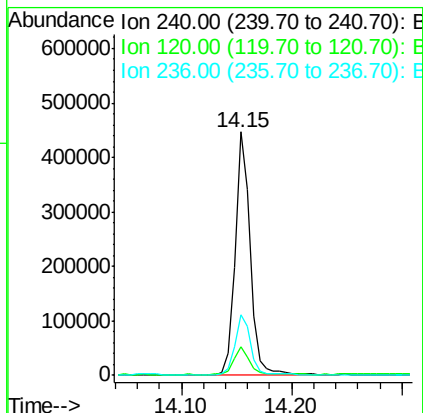
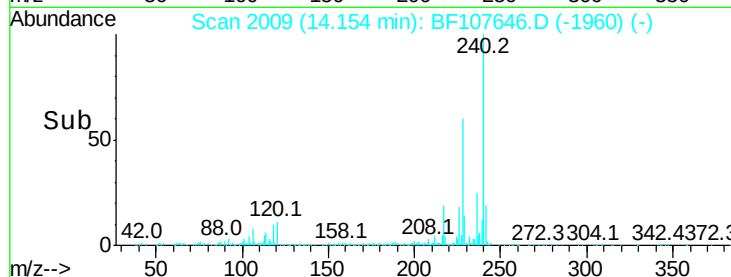
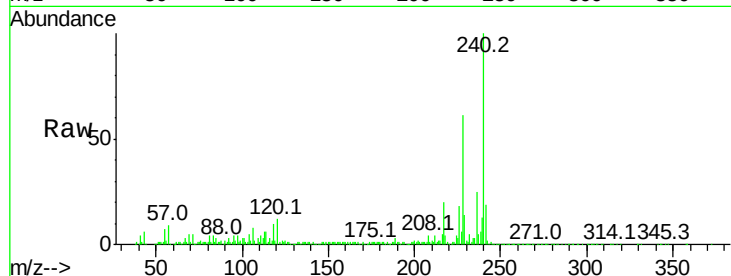
Tot Ion:240 Resp: 428829

Ion Ratio Lower Upper

240 100

120 11.7 9.5 14.3

236 24.8 20.7 31.1



#77

Pyrene

Concen: 63.231 ng

RT: 12.96 min Scan# 1806

Delta R.T. -0.01 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

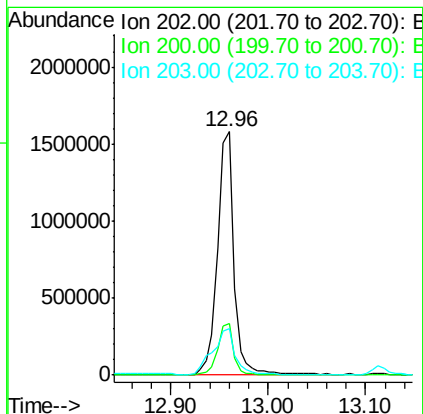
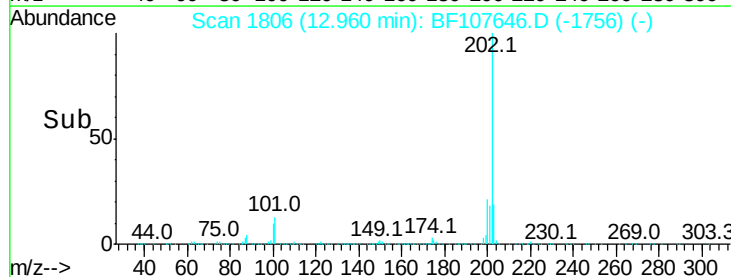
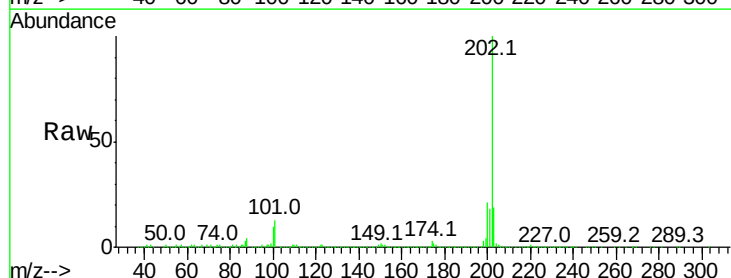
Tgt Ion:202 Resp: 1854709

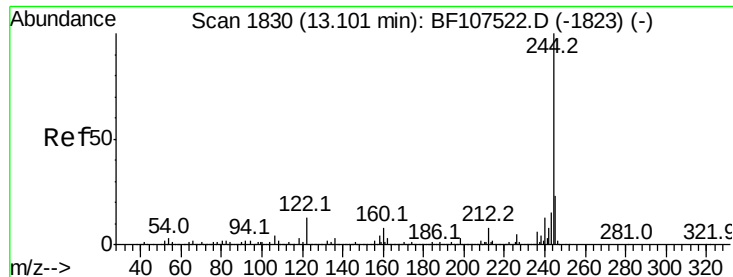
Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

203 18.9 14.3 21.5





#78

Terphenyl-d14

Concen: 36.089 ng

RT: 13.08 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampleId :

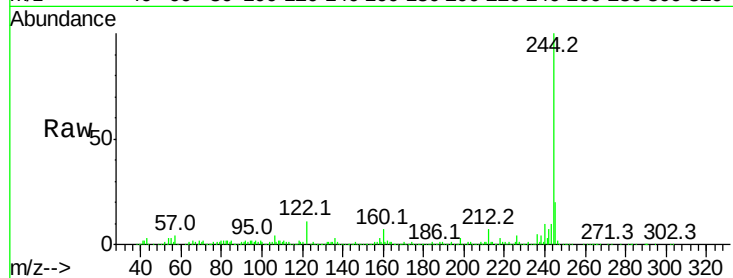
Tot Ion:244 Resp: 604513

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

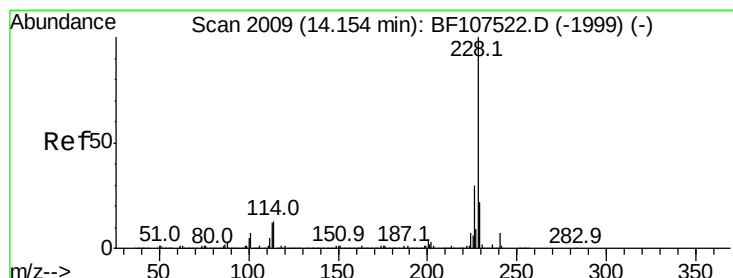
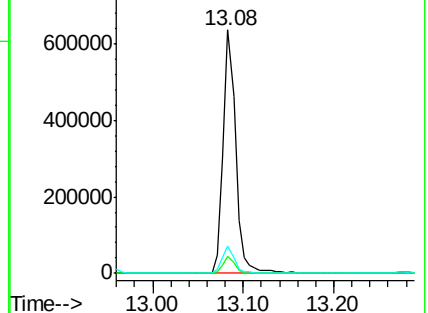
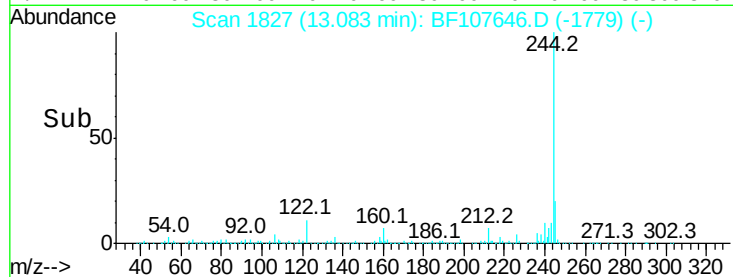
122 11.4 11.0 16.4



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: 29.649 ng

RT: 14.15 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

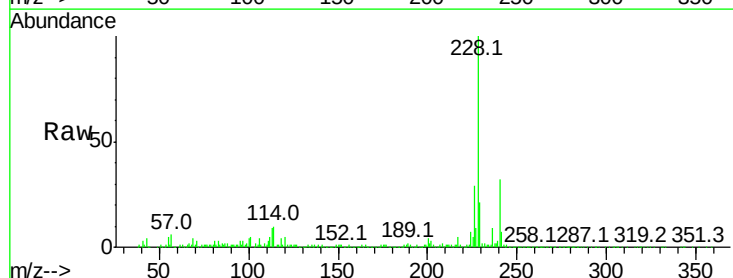
Tgt Ion:228 Resp: 745087

Ion Ratio Lower Upper

228 100

226 28.6 22.6 33.8

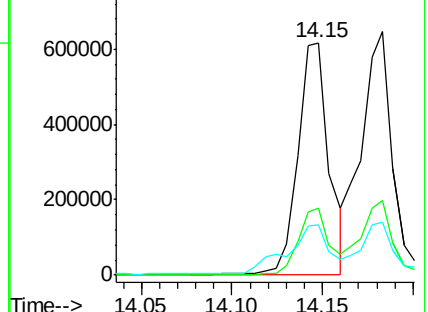
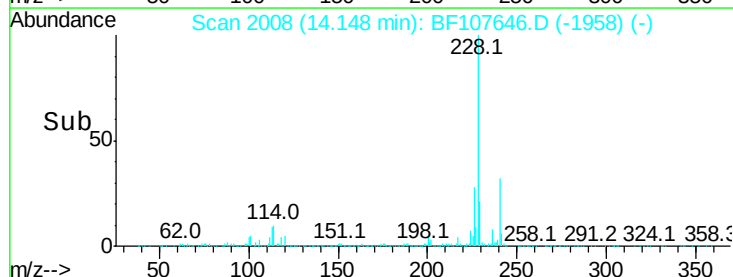
229 21.5 15.8 23.6

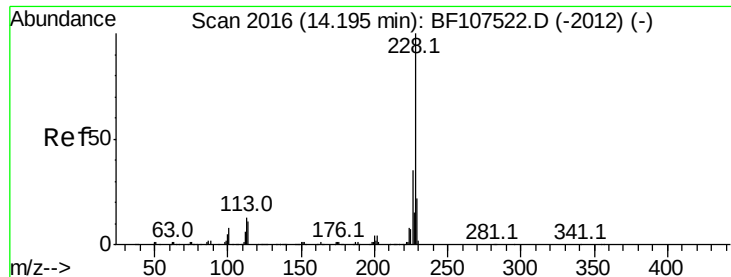


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 32.499 ng

RT: 14.18 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampleId :

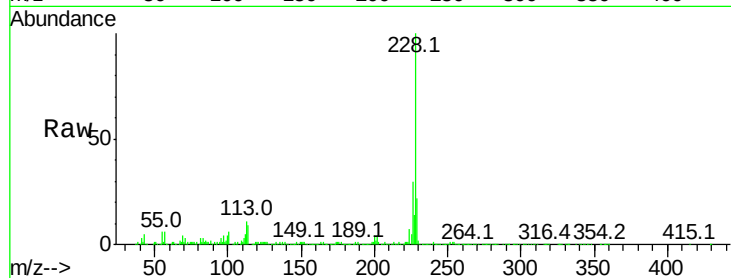
Tot Ion:228 Resp: 784521

Ion Ratio Lower Upper

228 100

226 30.5 25.0 37.6

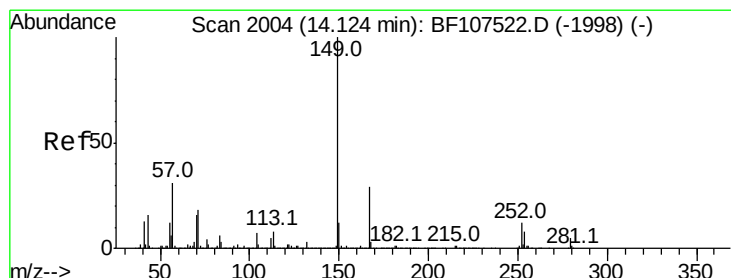
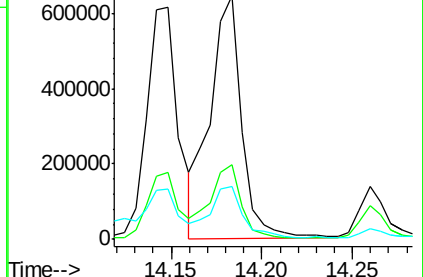
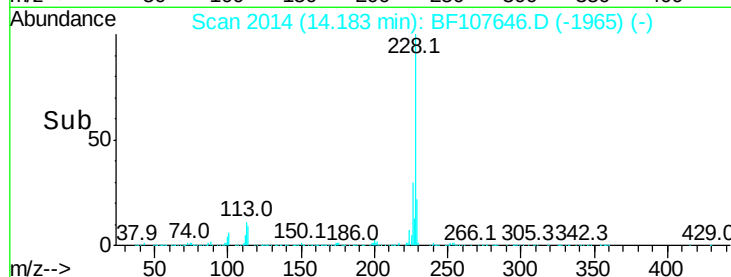
229 21.9 16.2 24.4



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 7.614 ng

RT: 14.11 min Scan# 2001

Delta R.T. -0.02 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

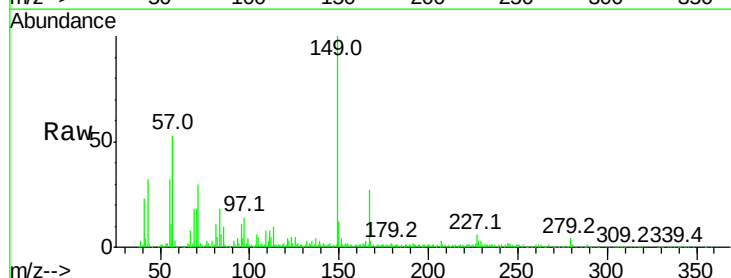
Tgt Ion:149 Resp: 135525

Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

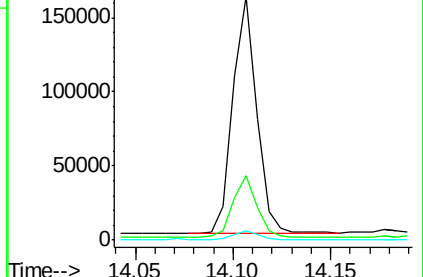
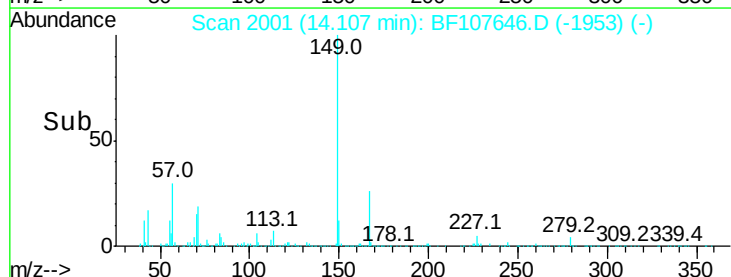
279 4.0 3.0 4.4

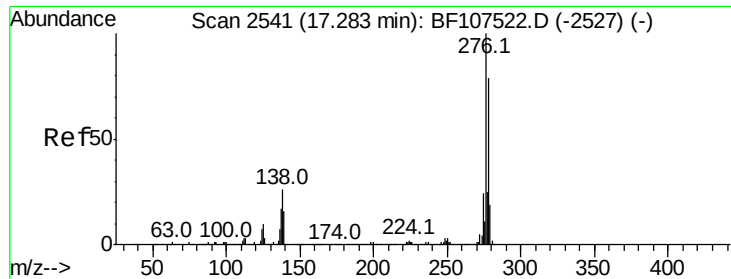


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

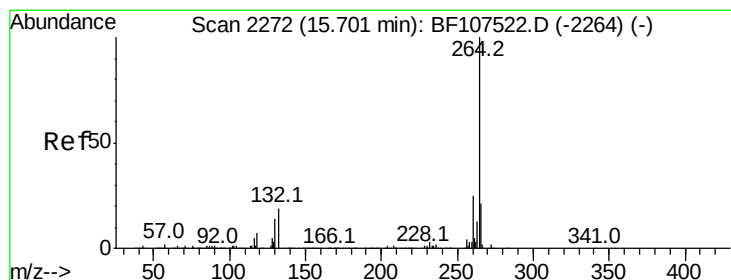
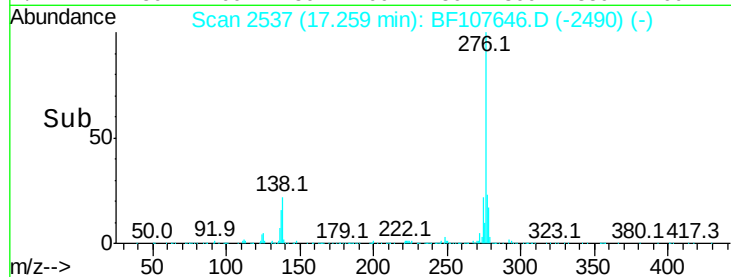
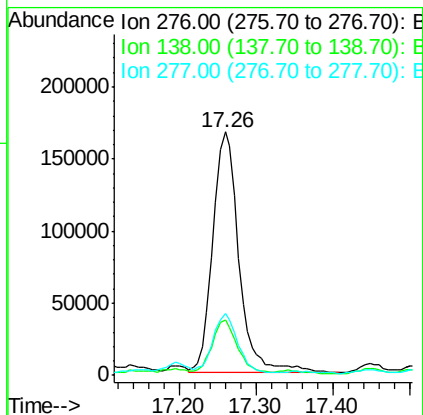
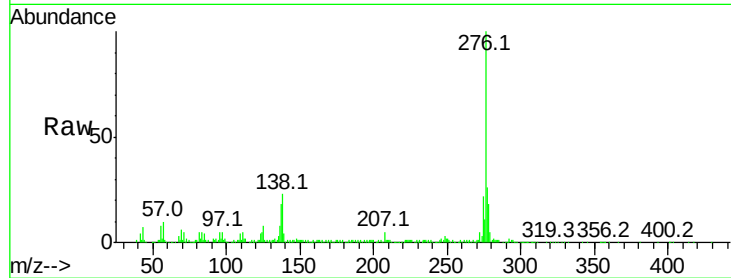




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 19.318 ng
 RT: 17.26 min Scan# 2537
 Delta R.T. -0.02 min
 Lab File: BF107646.D
 Acq: 25 Jul 2018 5:20

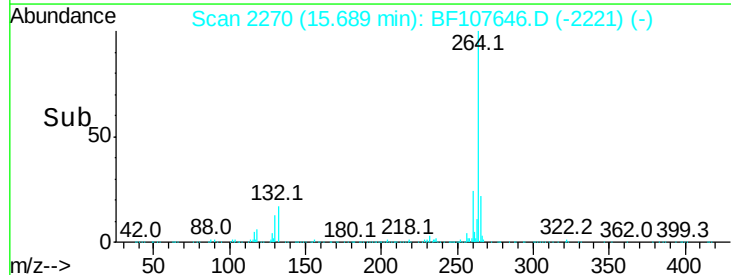
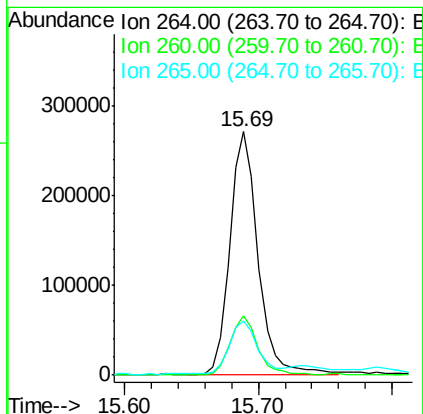
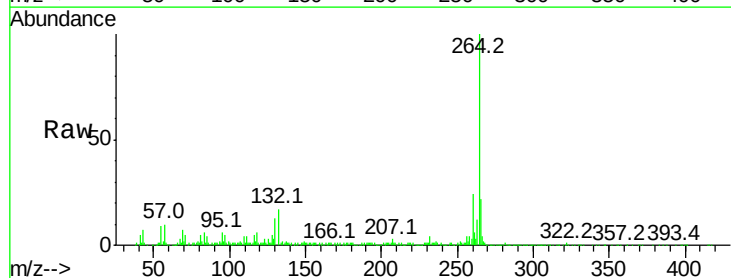
Instrument :
 BNA_F
 ClientSampleId :

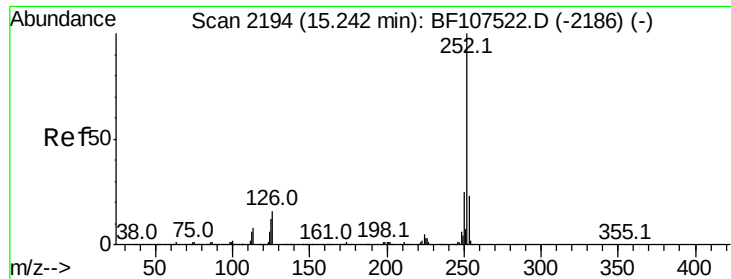
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.8	25.0	37.6#
277	22.6	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.69 min Scan# 2270
 Delta R.T. -0.01 min
 Lab File: BF107646.D
 Acq: 25 Jul 2018 5:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	22.1	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 58.950 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampleId :

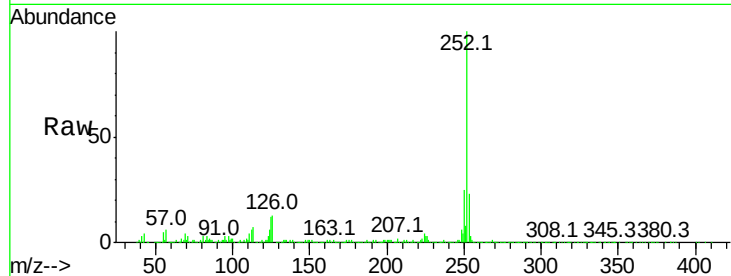
Tot Ion:252 Resp: 1274299

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.6
125	11.7	9.0	13.6

252 100

253 23.0 17.0 25.6

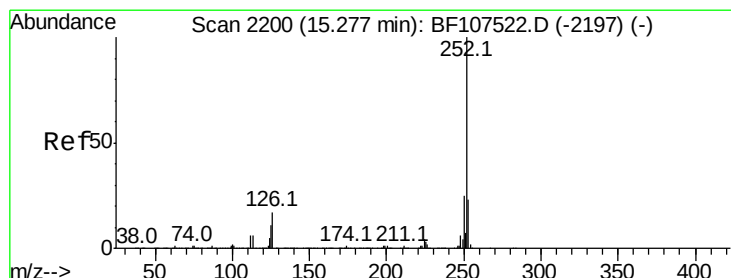
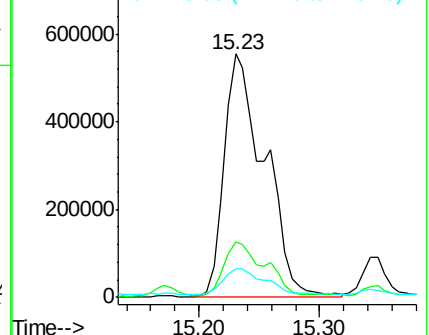
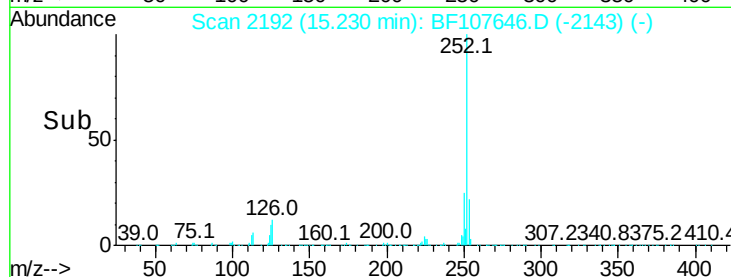
125 11.7 9.0 13.6



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: 60.170 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.05 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

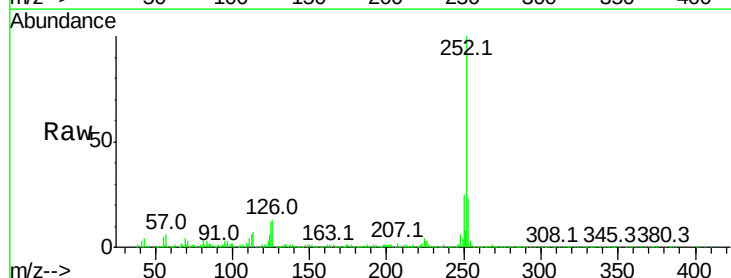
Tgt Ion:252 Resp: 1274299

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	11.7	10.2	15.2

252 100

253 23.0 17.9 26.9

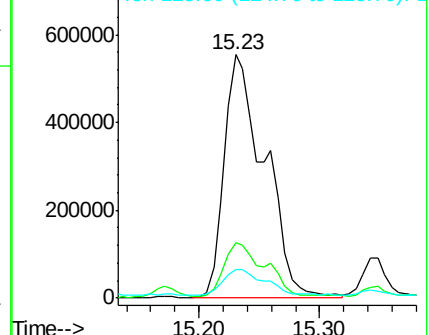
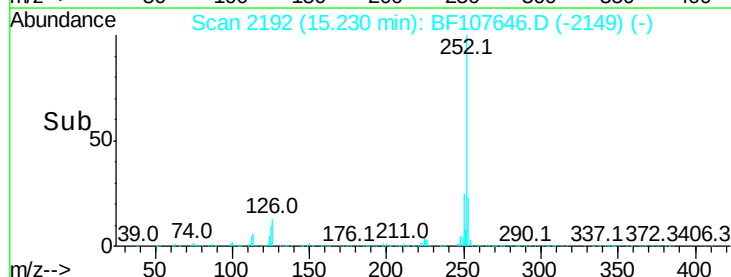
125 11.7 10.2 15.2

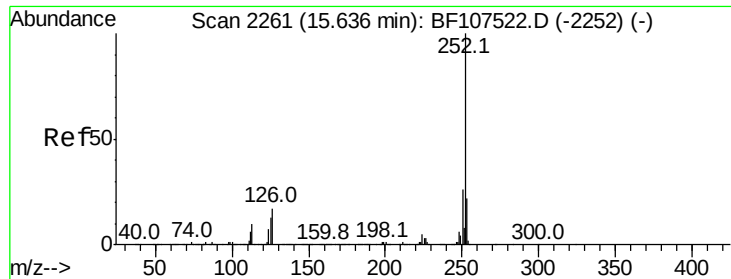


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 31.062 ng

RT: 15.62 min Scan# 2259

Delta R.T. -0.01 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

Instrument :

BNA_F

ClientSampleId :

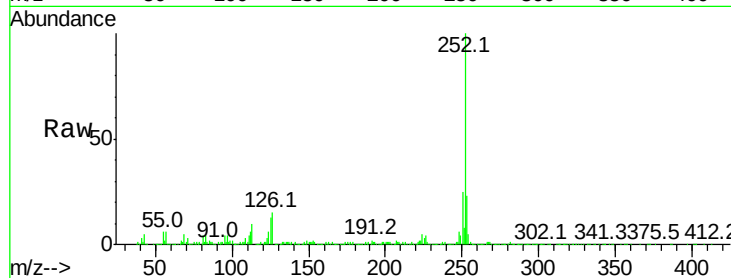
Tot Ion:252 Resp: 614195

Ion Ratio Lower Upper

252 100

253 22.5 17.1 25.7

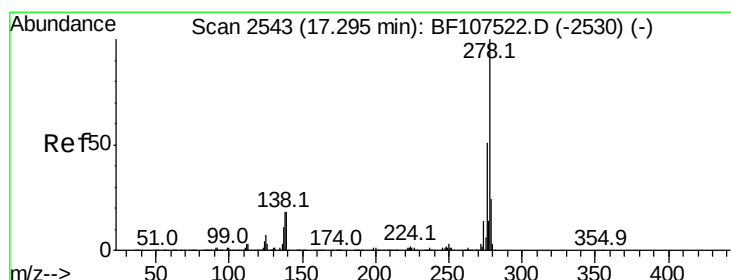
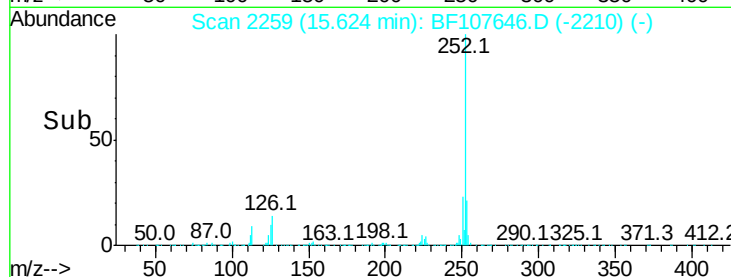
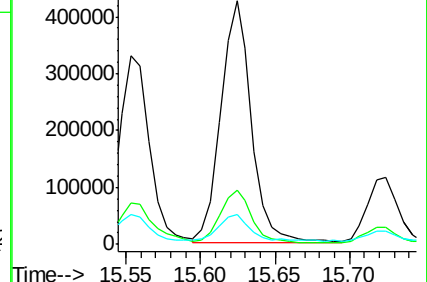
125 12.5 9.8 14.6



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: 4.430 ng

RT: 17.27 min Scan# 2539

Delta R.T. -0.02 min

Lab File: BF107646.D

Acq: 25 Jul 2018 5:20

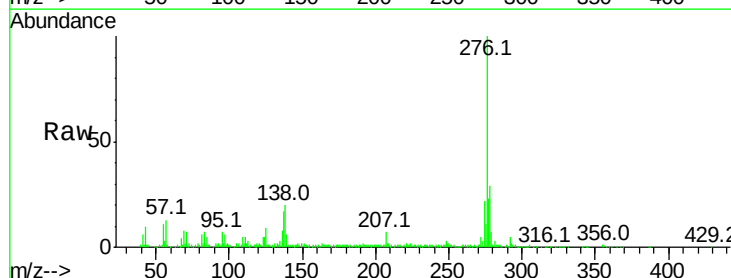
Tgt Ion:278 Resp: 75727

Ion Ratio Lower Upper

278 100

139 19.6 15.9 23.9

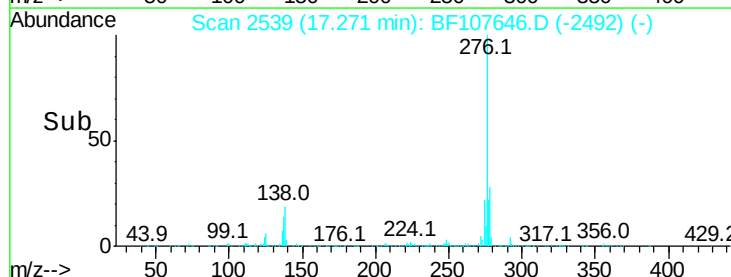
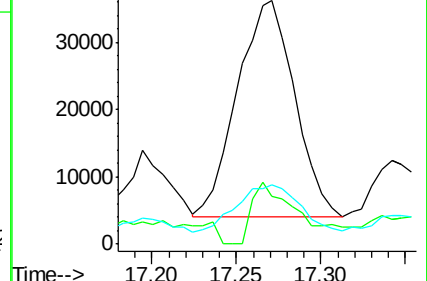
279 24.6 19.0 28.4

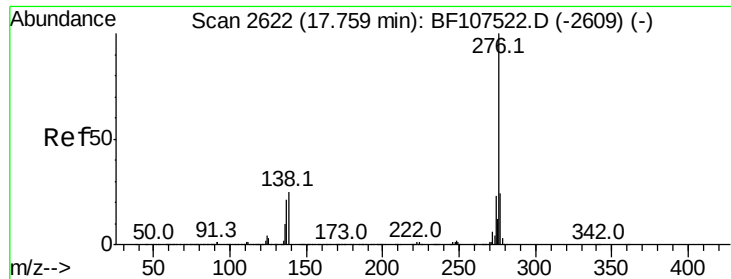


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

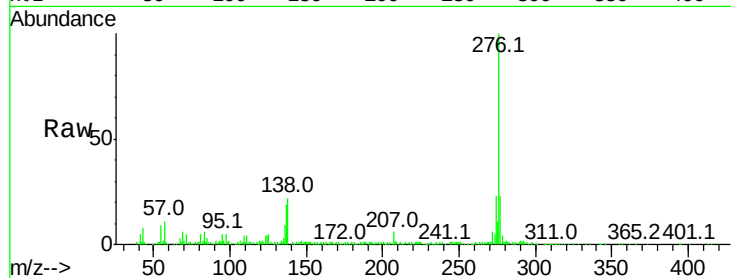




#91
 Benzo(a,h,i)perylene
 Concen: 21.087 ng
 RT: 17.74 min Scan# 2619
 Delta R.T. -0.02 min
 Lab File: BF107646.D
 Acq: 25 Jul 2018 5:20

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.5	17.9	26.9
138	21.9	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

