

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
 Data File : BF112158.D
 Acq On : 21 Jan 2019 15:01
 Operator : JU/SJ
 Sample : K1009-05 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-011819-C

Quant Time: Jan 21 16:25:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 19 01:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	278954	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	999971	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	394019	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	630267	20.00	ng	-0.01
76) Chrysene-d12	14.02	240	553243	20.00	ng	0.00
87) Perylene-d12	15.49	264	404550	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.48	112	761300	49.53	ng	-0.01
7) Phenol-d6	6.49	99	929331	48.33	ng	-0.01
23) Nitrobenzene-d5	7.41	82	549000	37.93	ng	-0.02
42) 2,4,6-Tribromophenol	10.68	330	180950	42.57	ng	-0.01
45) 2-Fluorobiphenyl	9.21	172	1004721	37.38	ng	0.00
79) Terphenyl-d14	12.96	244	816709	31.40	ng	-0.01

Target Compounds

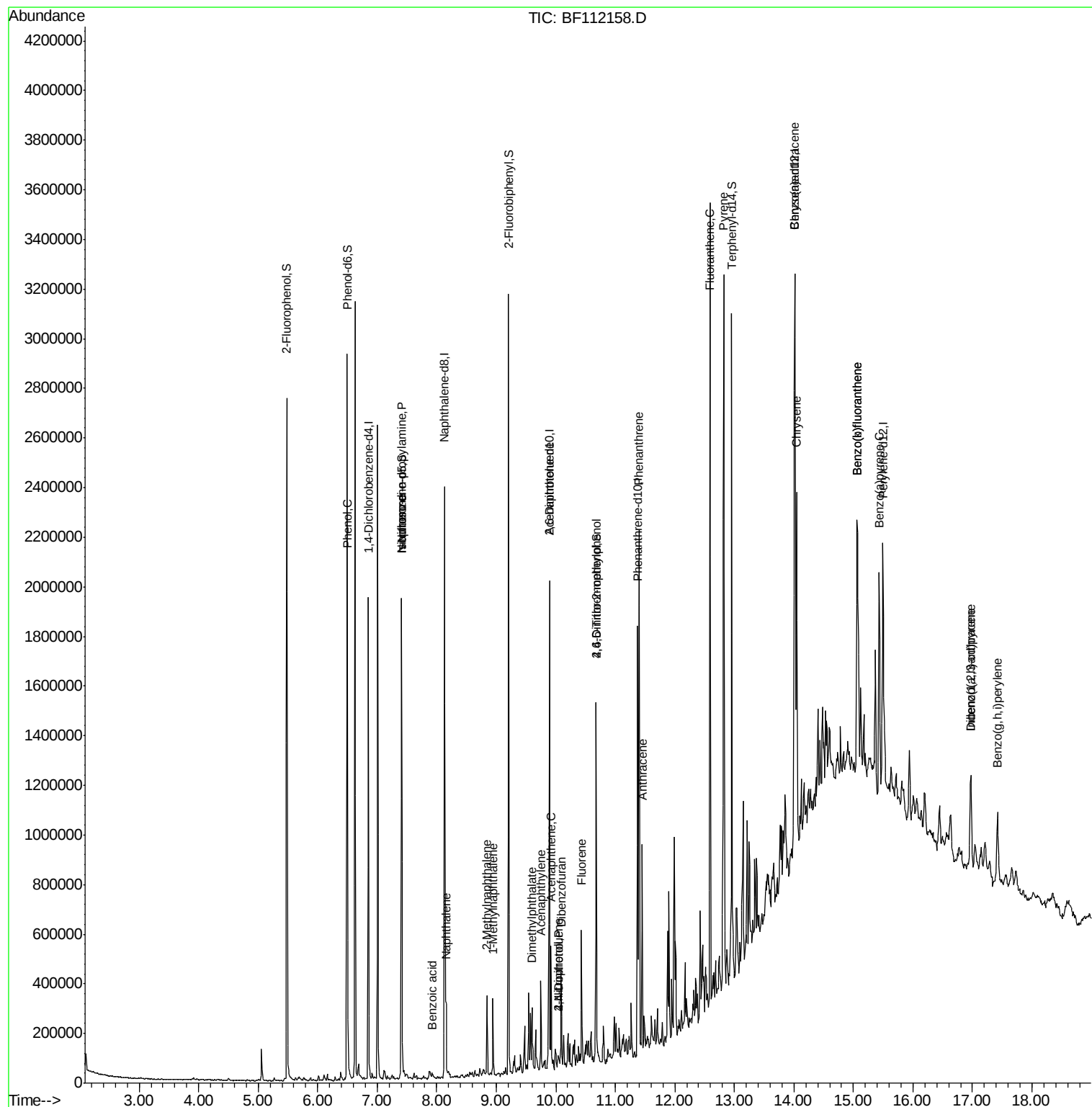
					Qvalue	
9) Benzaldehyde	6.40	77	784	Below Cal	#	64
10) Phenol	6.50	94	66711	3.174 ng	#	75
19) n-Nitroso-di-n-propylamine	7.41	70	72980	6.230 ng	#	77
25) Isophorone	7.41	82	544018	19.460 ng	#	64
31) Naphthalene	8.16	128	116360	2.558 ng		96
32) Benzoic acid	7.93	122	480	7.257 ng	#	8
37) 2-Methylnaphthalene	8.85	142	85597	2.772 ng		98
38) 1-Methylnaphthalene	8.95	142	77549	2.613 ng		97
49) Acenaphthylene	9.75	152	126696	3.366 ng		96
50) Dimethylphthalate	9.60	163	75858	2.640 ng		100
51) 2,6-Dinitrotoluene	9.89	165	56989	9.931 ng	#	34
52) Acenaphthene	9.92	154	94852	4.119 ng		98
55) Dibenzofuran	10.09	168	102105	2.932 ng		95
56) 4-Nitrophenol	10.04	139	1753	6.010 ng	#	48
57) 2,4-Dinitrotoluene	10.05	165	3024	4.953 ng	#	33
58) Fluorene	10.43	166	154065	5.922 ng		98
65) 4,6-Dinitro-2-methylphenol	10.67	198	375	10.182 ng	#	1
71) Phenanthrene	11.40	178	787734	24.835 ng		98
72) Anthracene	11.45	178	295065	9.183 ng		97
75) Fluoranthene	12.59	202	1189913	35.531 ng		100
78) Pyrene	12.82	202	1172915	32.134 ng		99
81) Benzo(a)anthracene	14.01	228	596619	18.808 ng		95
83) Chrysene	14.04	228	525962	17.523 ng		97
86) Indeno(1,2,3-cd)pyrene	16.97	276	234777	8.478 ng		94
88) Benzo(b)fluoranthene	15.06	252	750267	32.672 ng	#	95
89) Benzo(k)fluoranthene	15.06	252	750267	33.756 ng	#	95
90) Benzo(a)pyrene	15.43	252	412440	19.584 ng	#	95
91) Dibenzo(a,h)anthracene	16.98	278	57419	3.070 ng	#	76
92) Benzo(g,h,i)perylene	17.42	276	229847	12.473 ng		98

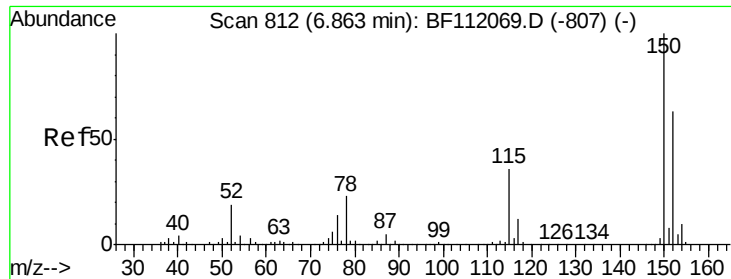
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.85 min Scan# 810

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

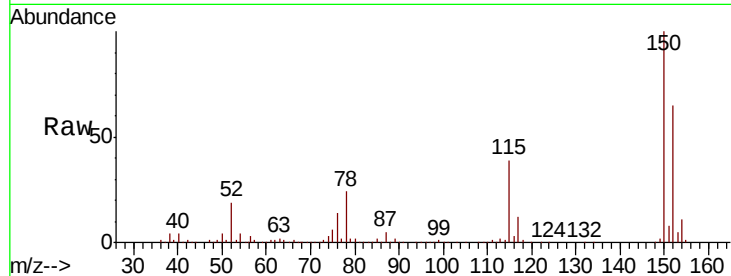
Tot Ion:152 Resp: 278954

Ion Ratio Lower Upper

152 100

150 153.9 127.4 191.0

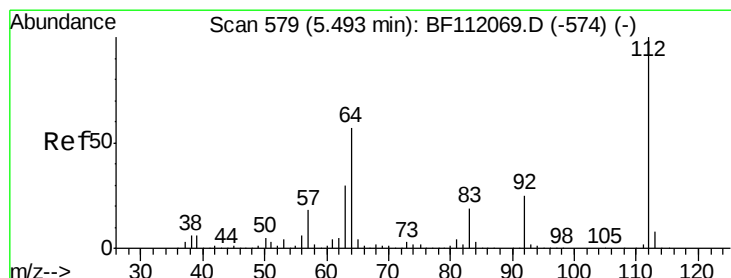
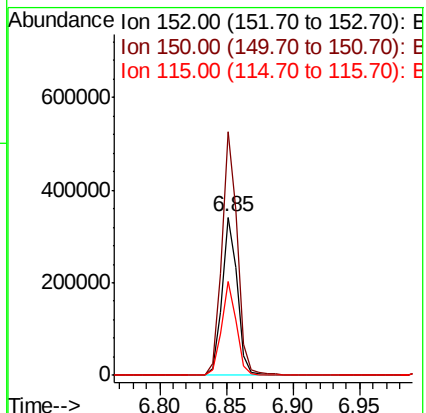
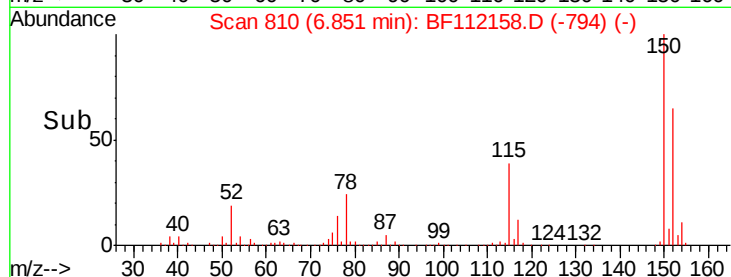
115 59.7 45.5 68.3



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: 49.535 ng

RT: 5.48 min Scan# 577

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

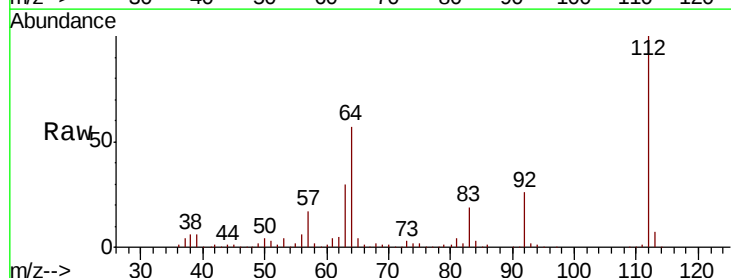
Tgt Ion:112 Resp: 761300

Ion Ratio Lower Upper

112 100

64 56.7 45.7 68.5

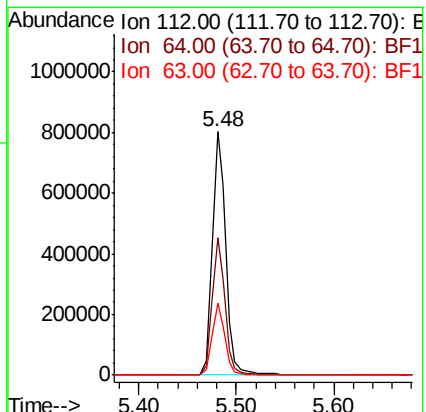
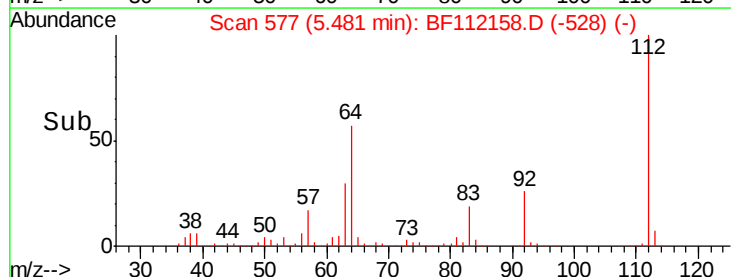
63 29.5 23.6 35.4

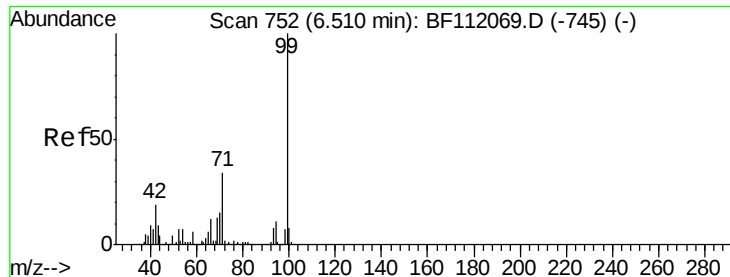


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 48.330 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

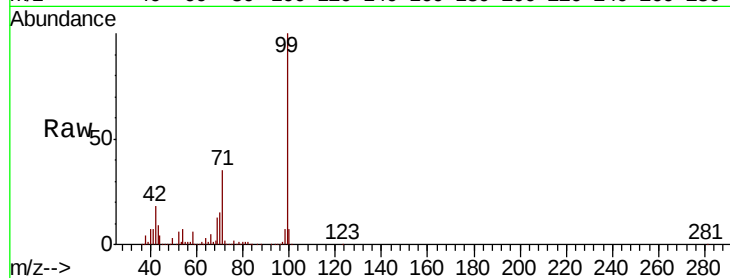
Tot Ion: 99 Resp: 929331

Ion Ratio Lower Upper

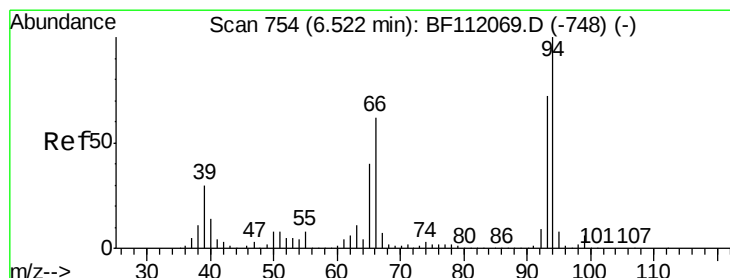
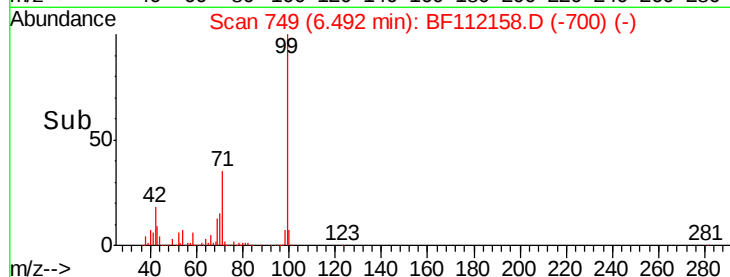
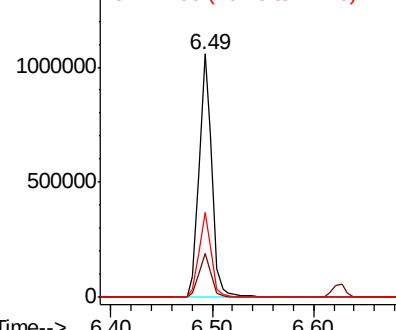
99 100

42 18.1 15.1 22.7

71 34.7 26.9 40.3



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



#10

Phenol

Concen: 3.174 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.02 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

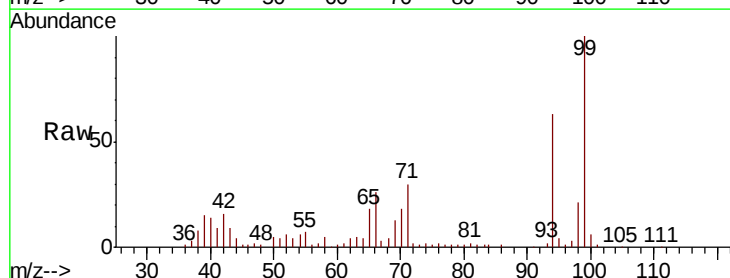
Tgt Ion: 94 Resp: 66711

Ion Ratio Lower Upper

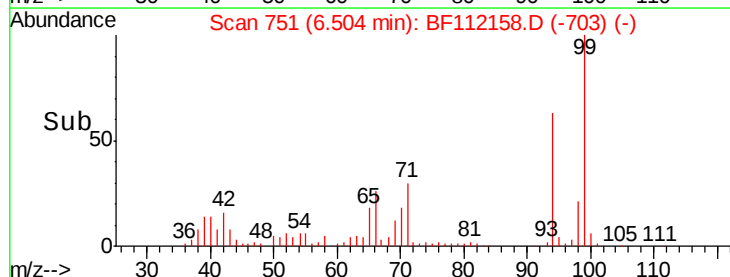
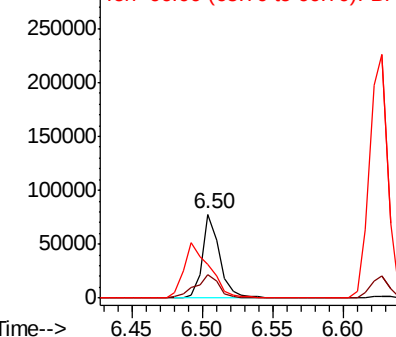
94 100

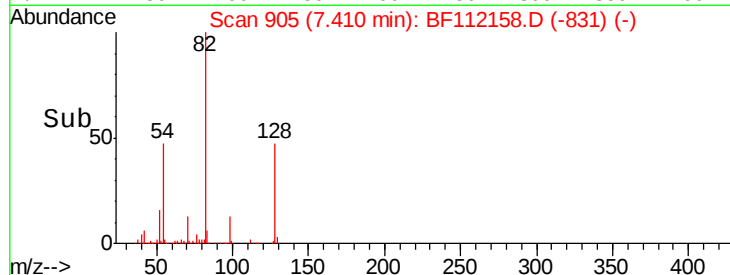
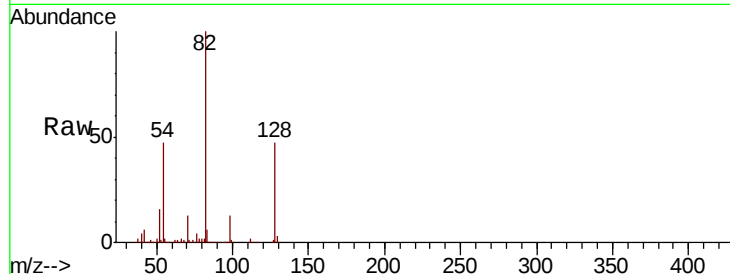
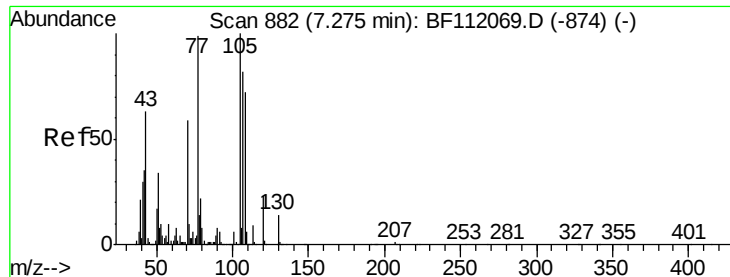
65 27.8 20.3 60.3

66 40.7 42.4 82.4#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

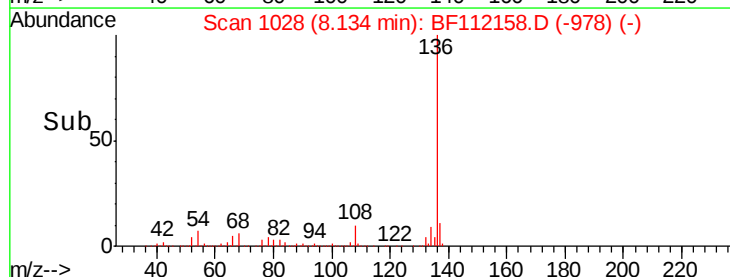
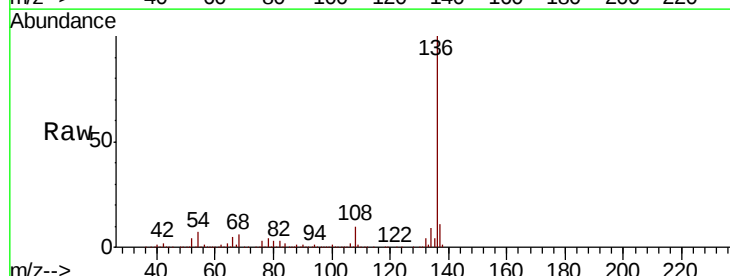
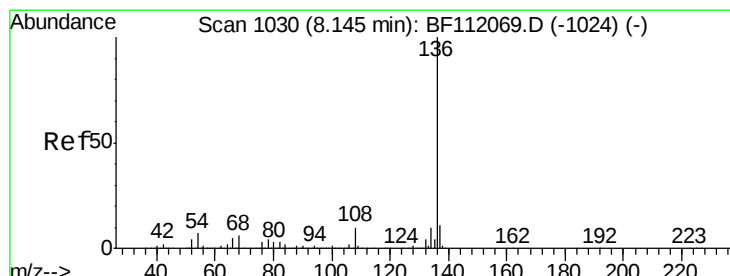
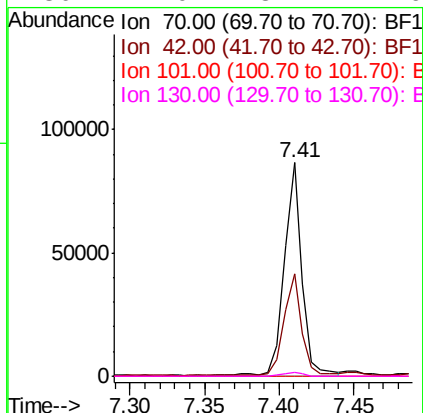




#19
n-Nitroso-di-n-propylamine
Concen: 6.230 ng
RT: 7.41 min Scan# 905
Delta R.T. 0.14 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

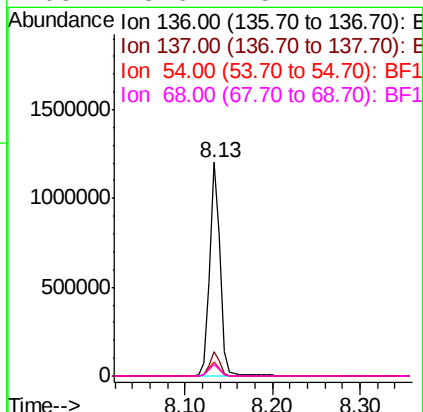
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CL-01-011819-C

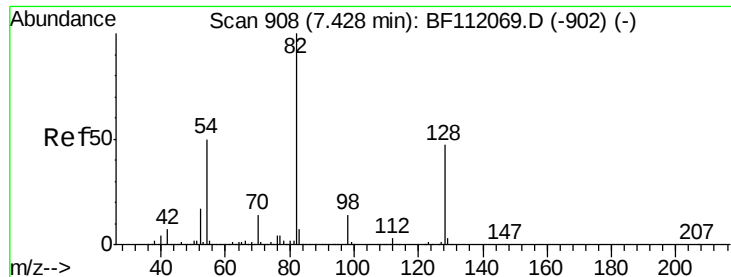
Tot Ion: 70 Resp: 72980
Ion Ratio Lower Upper
70 100
42 48.2 47.6 71.4
101 0.0 7.9 11.9#
130 2.0 18.4 27.6#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Tgt Ion: 136 Resp: 999971
Ion Ratio Lower Upper
136 100
137 11.5 9.1 13.7
54 6.8 5.9 8.9
68 5.6 5.1 7.7

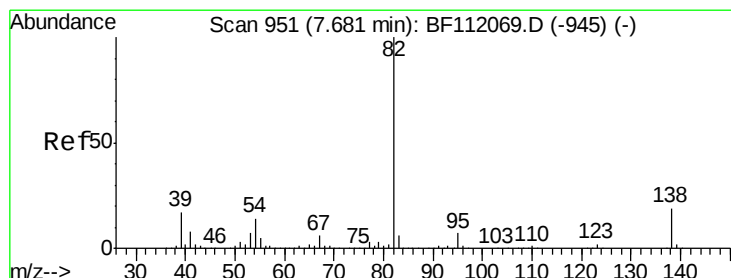
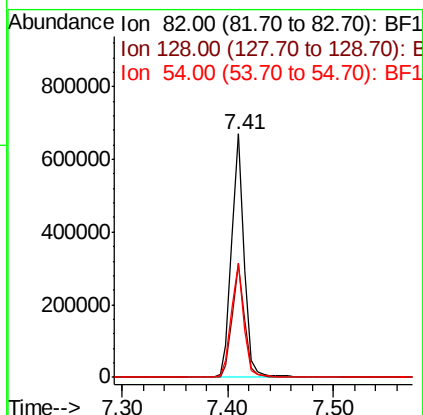
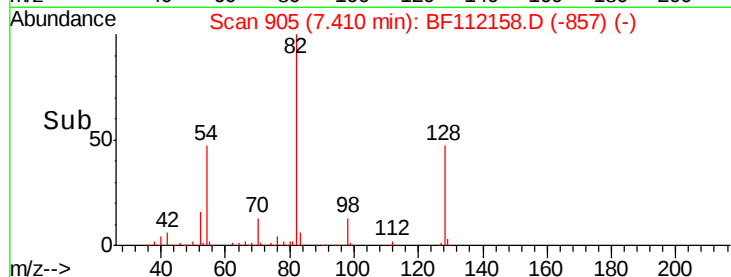
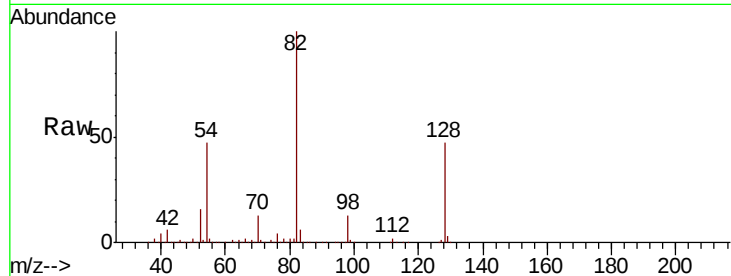




#23
Nitrobenzene-d5
Concen: 37.931 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.02 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

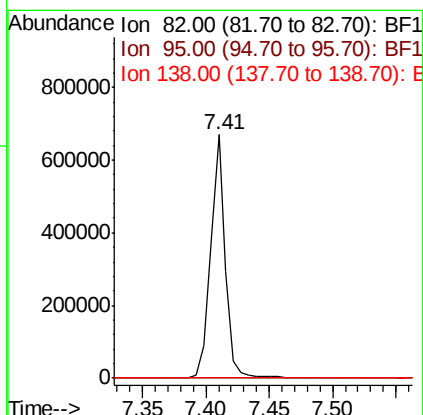
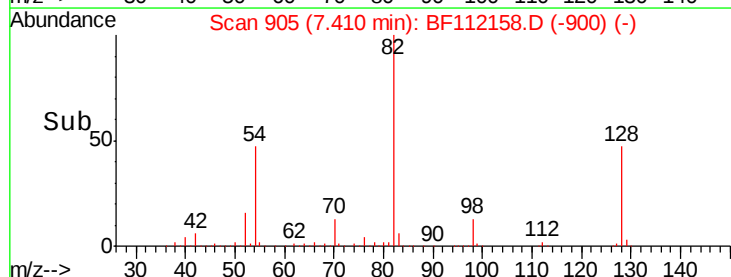
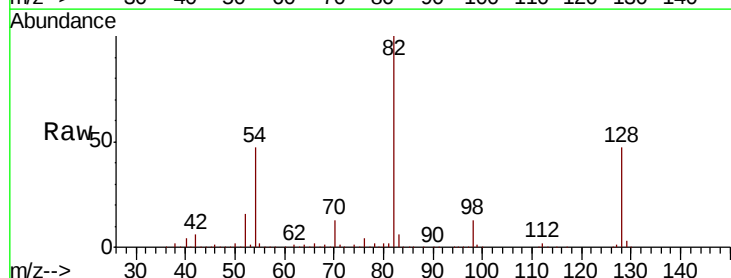
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ClientSampleId :
CL-01-011819-C

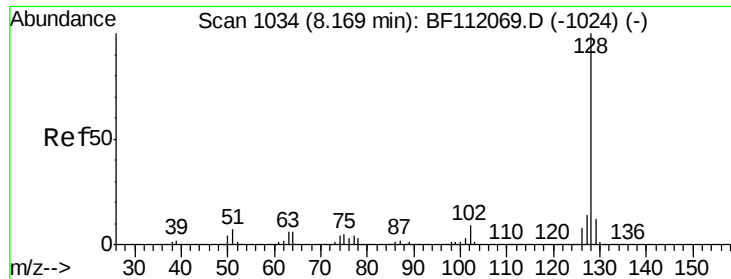
Tot Ion	82	Resp	549000
Ion Ratio	Lower	Upper	
82	100		
128	46.7	37.8	56.8
54	47.0	39.7	59.5



#25
Isophorone
Concen: 19.460 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.27 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Tgt Ion	82	Resp	544018
Ion Ratio	Lower	Upper	
82	100		
95	0.1	5.7	8.5#
138	0.0	15.4	23.0#

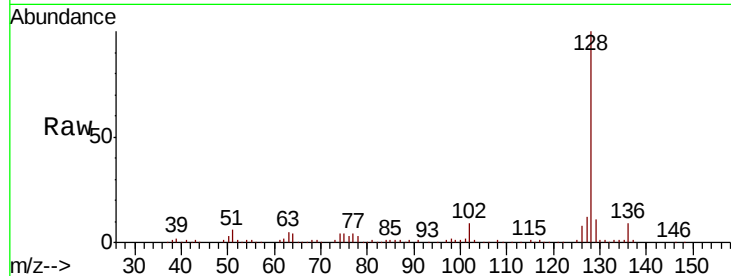




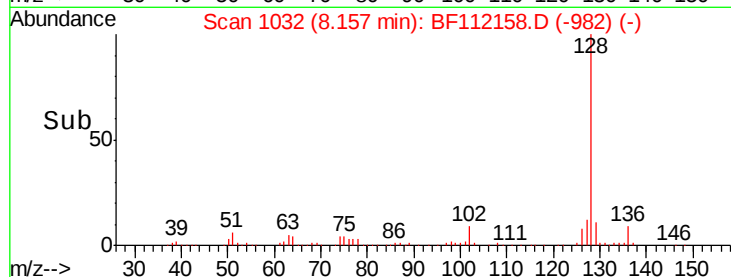
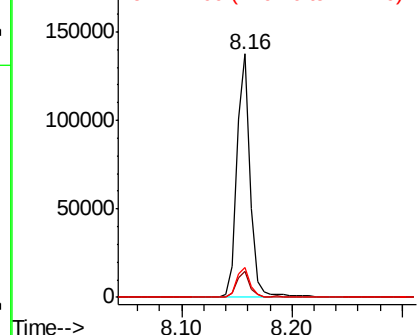
#31
Naphthalene
Concen: 2.558 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-C

Tot Ion:128 Resp: 116360
Ion Ratio Lower Upper
128 100
129 10.5 9.6 14.4
127 12.5 11.1 16.7

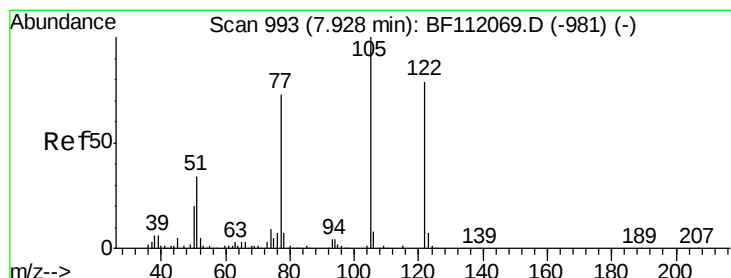


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

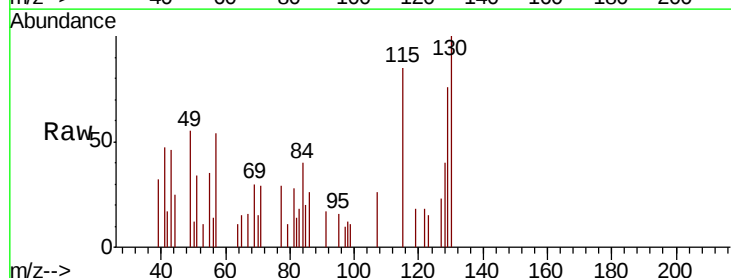
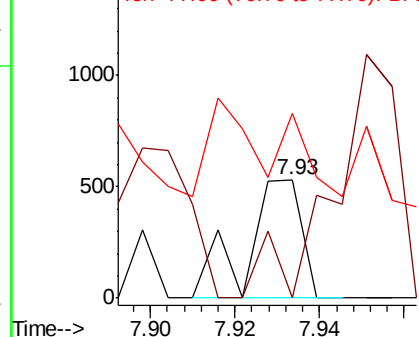


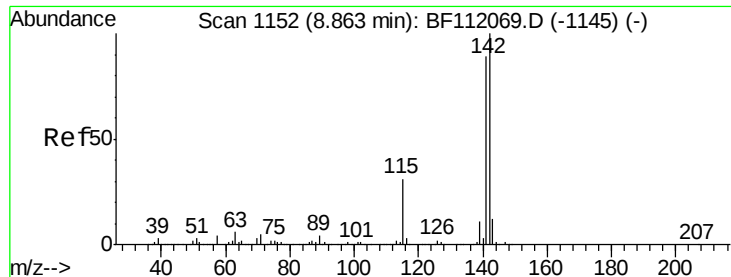
#32
Benzoic acid
Concen: 7.257 ng
RT: 7.93 min Scan# 994
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Tgt Ion:122 Resp: 480
Ion Ratio Lower Upper
122 100
105 0.0 101.2 141.2#
77 156.3 70.4 110.4#



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF1

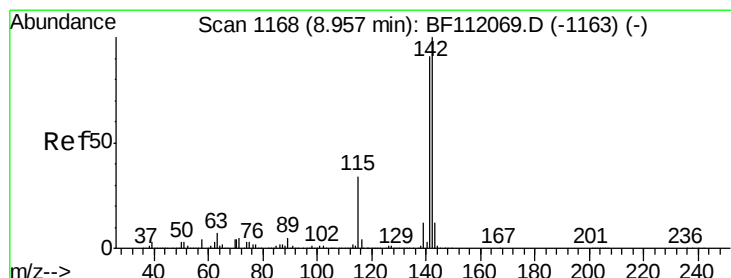
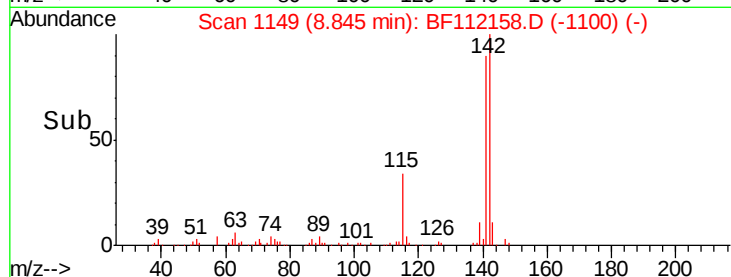
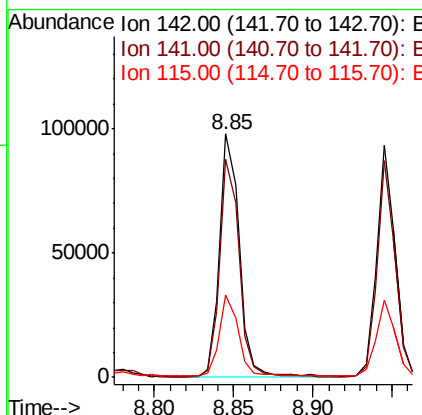
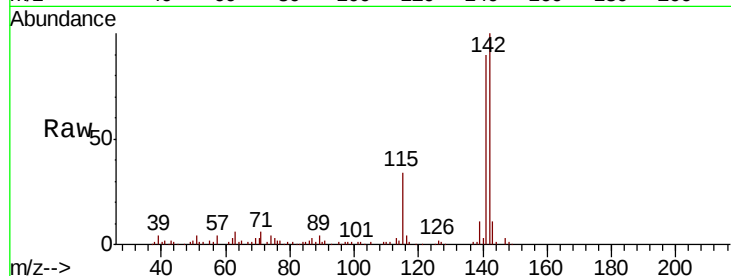




#37
2-Methylnaphthalene
Concen: 2.772 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

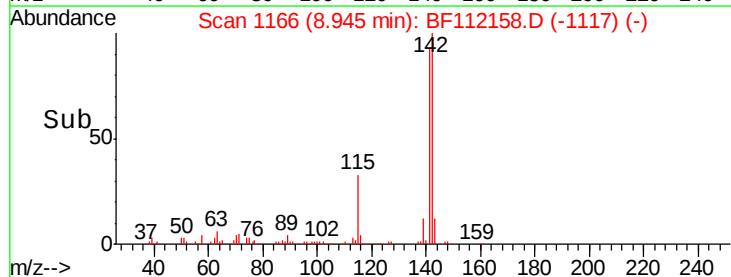
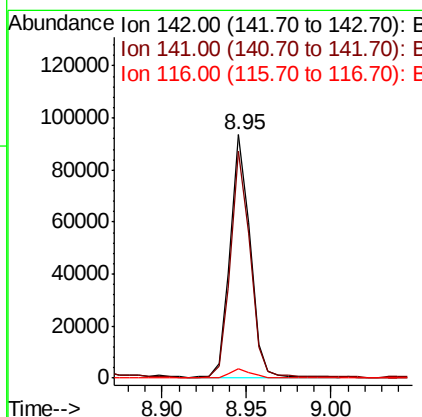
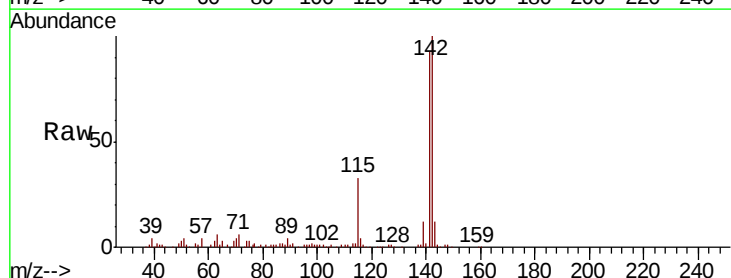
Instrument :
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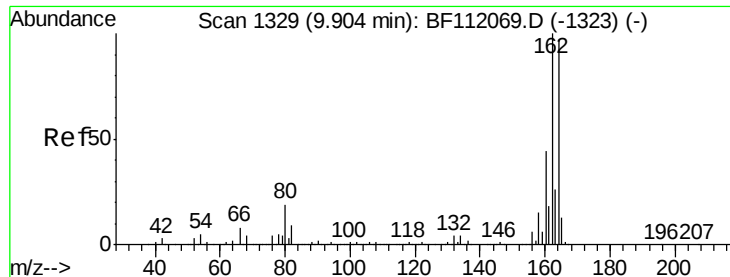
Tot Ion:142 Resp: 85597
Ion Ratio Lower Upper
142 100
141 89.7 70.9 106.3
115 34.0 24.9 37.3



#38
1-Methylnaphthalene
Concen: 2.613 ng
RT: 8.95 min Scan# 1166
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Tgt Ion:142 Resp: 77549
Ion Ratio Lower Upper
142 100
141 93.3 72.6 108.8
116 3.9 2.8 4.2

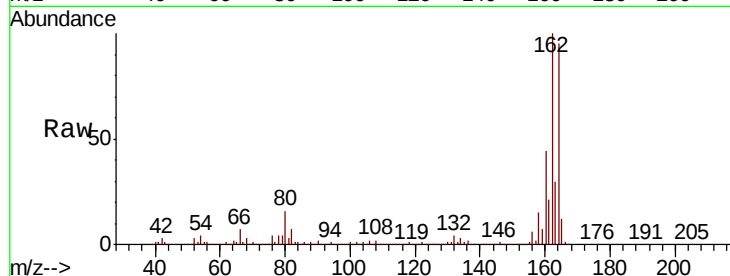




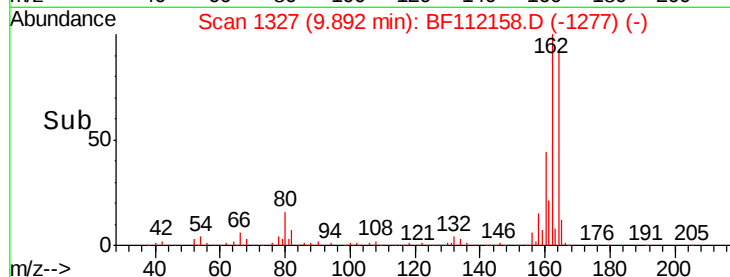
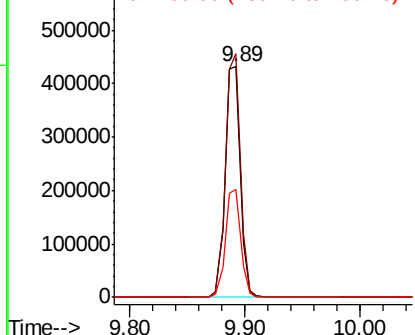
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: BF112158.D
 Acq: 21 Jan 2019 15:01

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-011819-C

Tot Ion:164 Resp: 394019
 Ion Ratio Lower Upper
 164 100
 162 105.7 82.2 123.4
 160 46.9 36.2 54.4

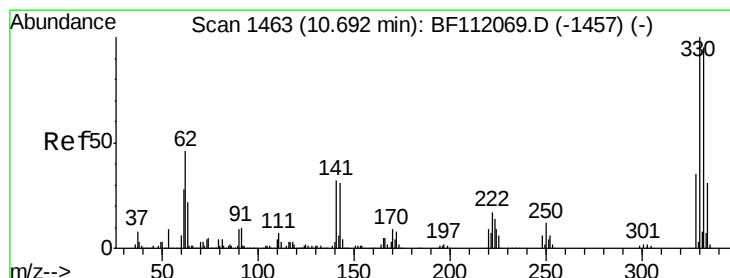


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

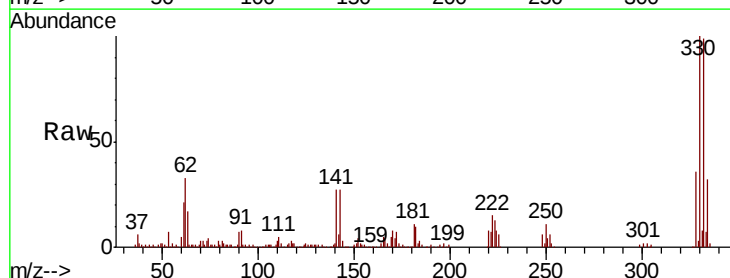
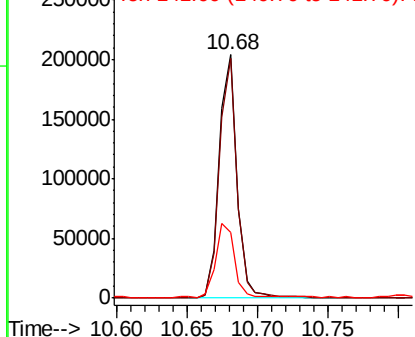


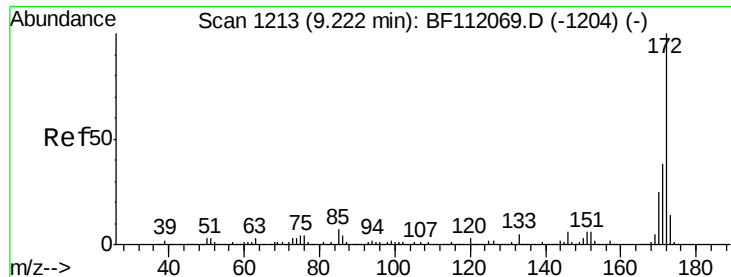
#42
 2,4,6-Tribromophenol
 Concen: 42.570 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF112158.D
 Acq: 21 Jan 2019 15:01

Tgt Ion:330 Resp: 180950
 Ion Ratio Lower Upper
 330 100
 332 96.9 76.6 114.8
 141 32.3 24.3 36.5



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

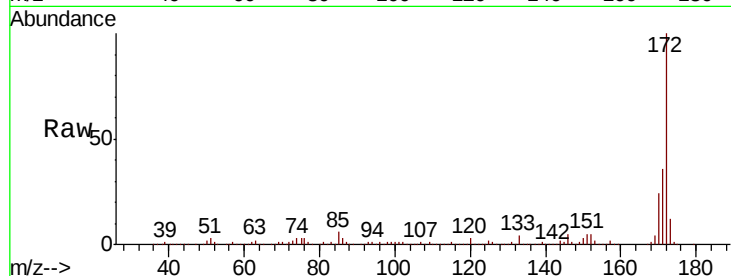




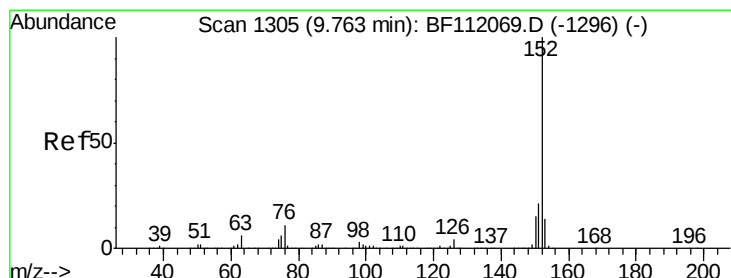
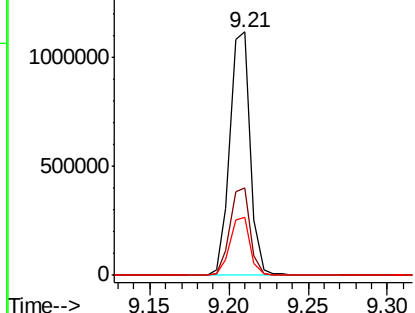
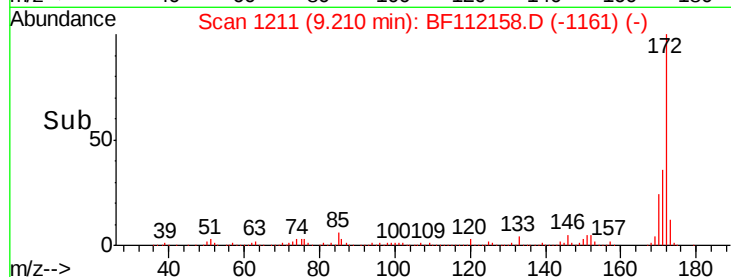
#45
2-Fluorobiphenyl
Concen: 37.385 ng
RT: 9.21 min Scan# 1211
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-C

Tot Ion:172 Resp: 1004721
Ion Ratio Lower Upper
172 100
171 35.8 30.5 45.7
170 23.6 20.2 30.4

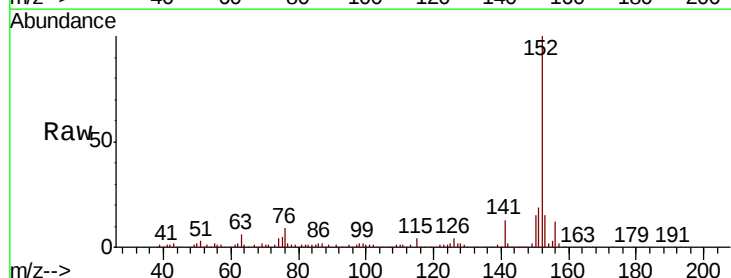


Abundance Ion 172.00 (171.70 to 172.70): E
1500000 Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

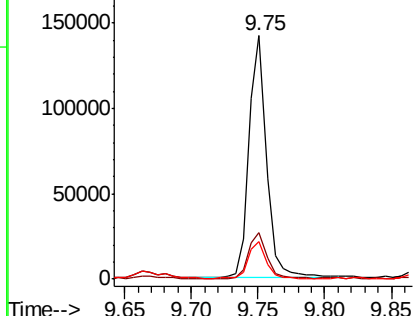
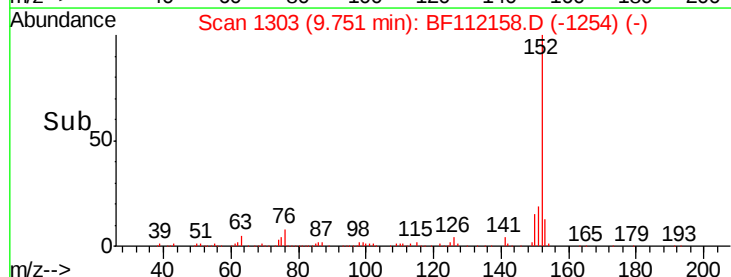


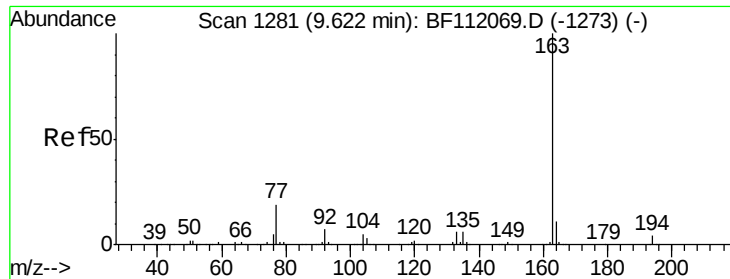
#49
Acenaphthylene
Concen: 3.366 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Tgt Ion:152 Resp: 126696
Ion Ratio Lower Upper
152 100
151 19.1 17.0 25.6
153 15.4 11.2 16.8



Abundance Ion 152.00 (151.70 to 152.70): E
150000 Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

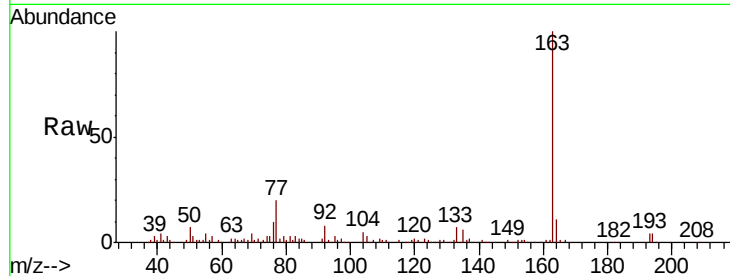




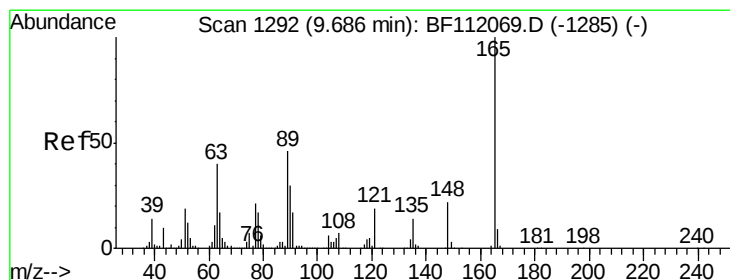
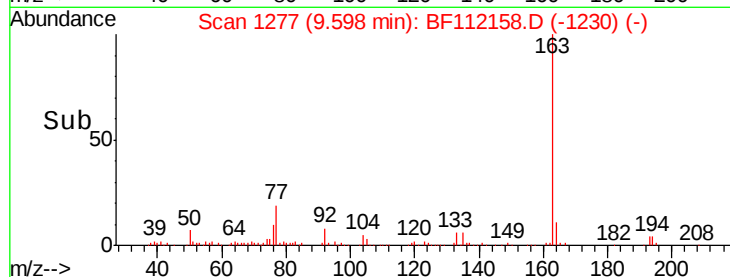
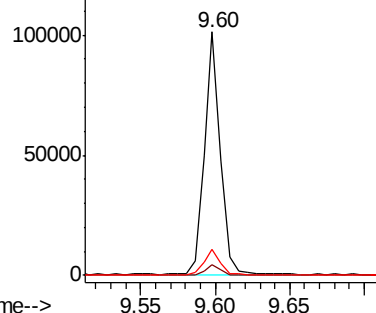
#50
Dimethylphthalate
Concen: 2.640 ng
RT: 9.60 min Scan# 1277
Delta R.T. -0.02 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-C

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.7	8.5	12.7

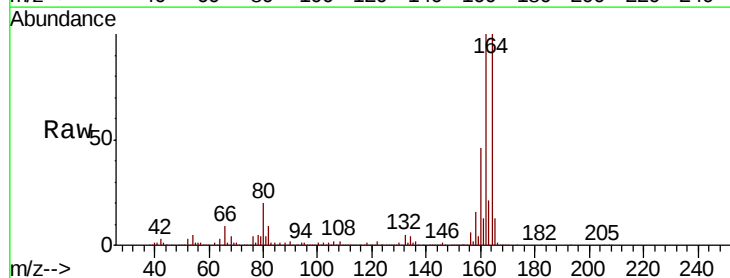


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

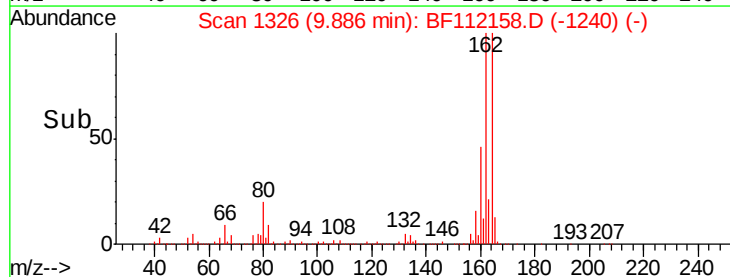
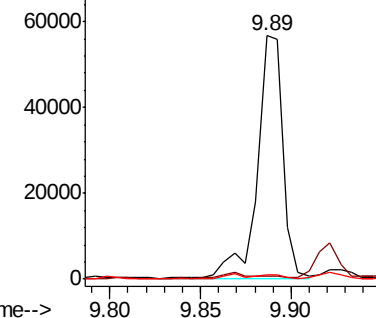


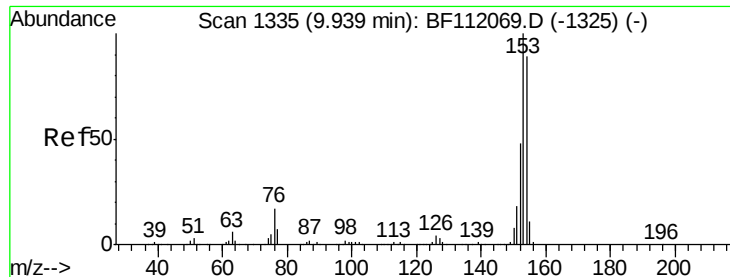
#51
2,6-Dinitrotoluene
Concen: 9.931 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.21 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	33.8	50.8#
89	1.5	36.9	55.3#



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





#52

Acenaphthene

Concen: 4.119 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

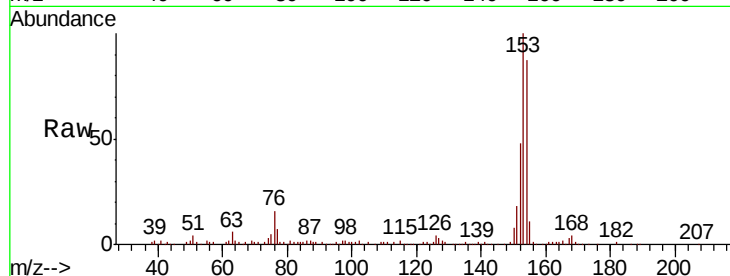
Tot Ion:154 Resp: 94852

Ion Ratio Lower Upper

154 100

153 115.2 89.8 134.6

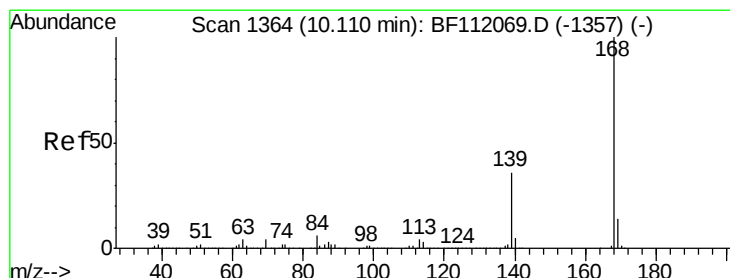
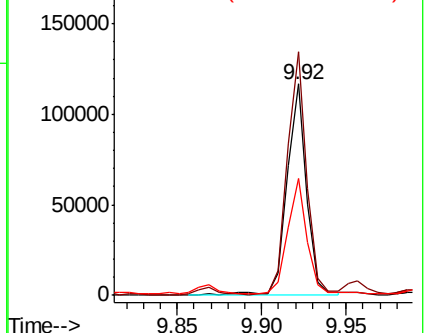
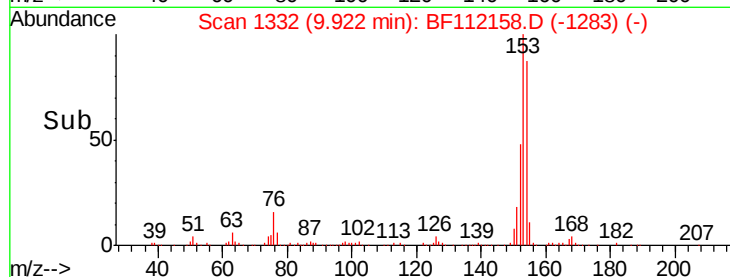
152 55.5 43.5 65.3



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



#55

Dibenzofuran

Concen: 2.932 ng

RT: 10.09 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

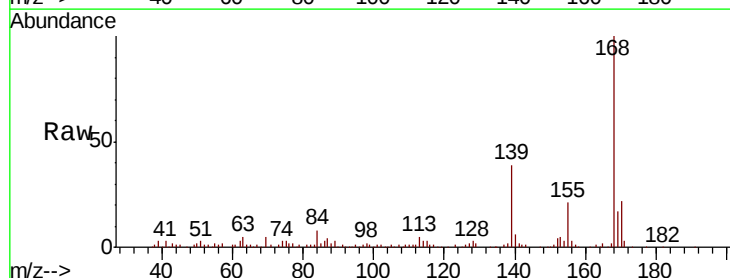
Tgt Ion:168 Resp: 102105

Ion Ratio Lower Upper

168 100

139 39.4 29.2 43.8

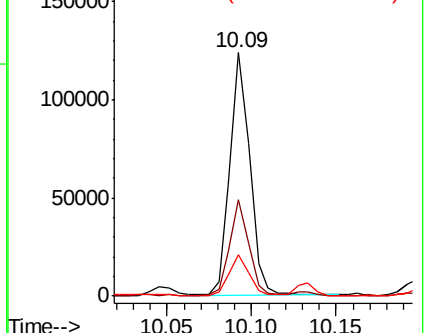
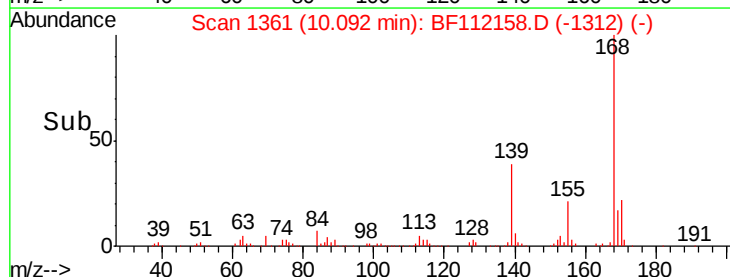
169 17.0 11.4 17.0

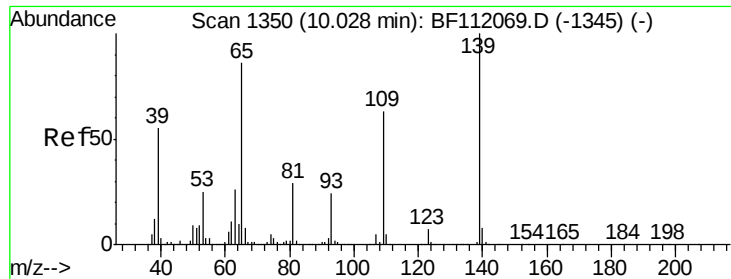


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

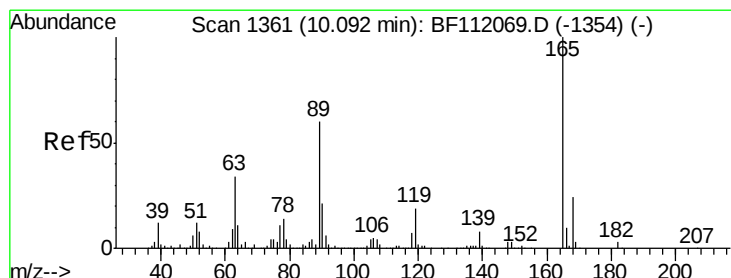
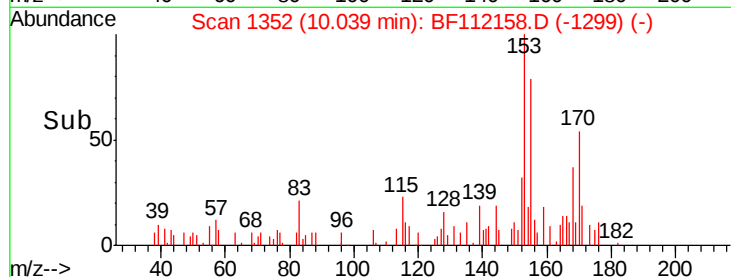
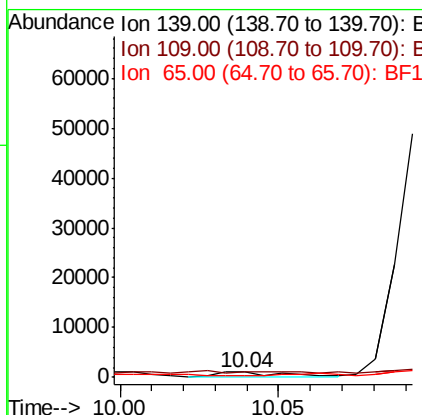
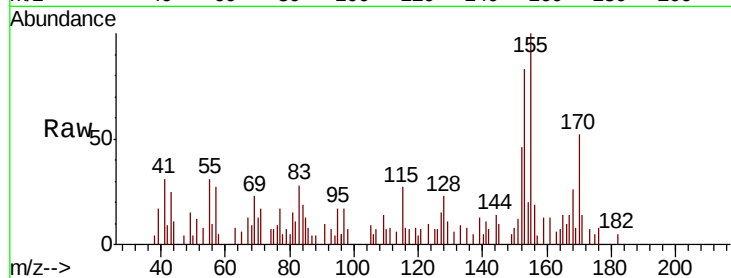




#56
4-Nitrophenol
Concen: 6.010 ng
RT: 10.04 min Scan# 1352
Delta R.T. 0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

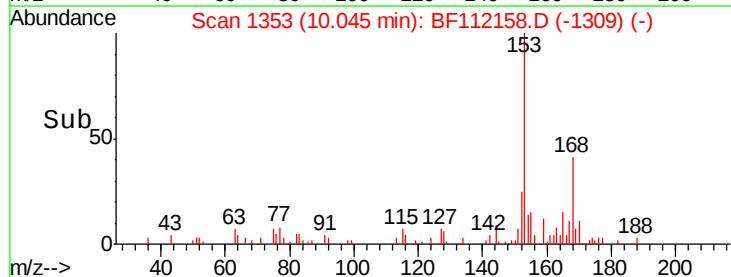
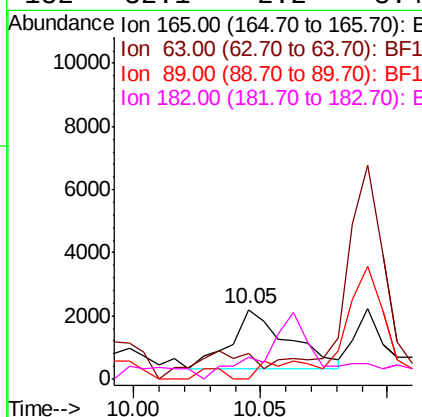
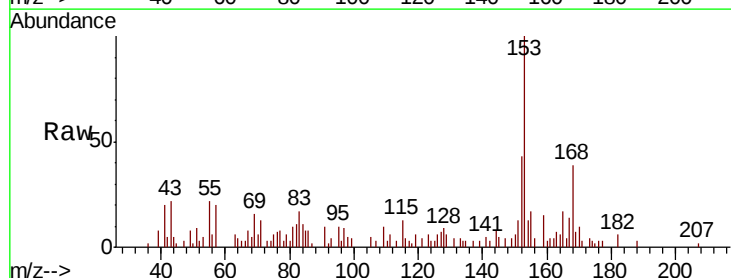
Instrument :
BNA_F
ClientSampleId :
CL-01-011819-C

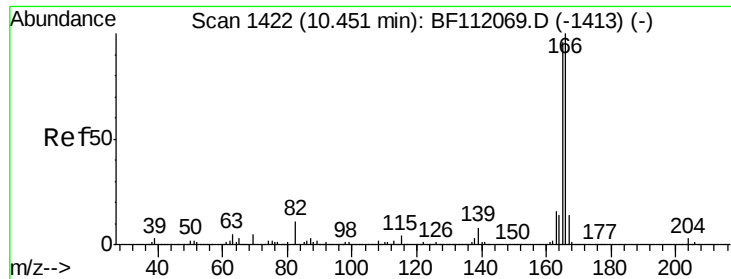
Tot Ion:139 Resp: 1753
Ion Ratio Lower Upper
139 100
109 107.3 42.8 82.8#
65 42.6 66.1 106.1#



#57
2,4-Dinitrotoluene
Concen: 4.953 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.04 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Tgt Ion:165 Resp: 3024
Ion Ratio Lower Upper
165 100
63 59.8 27.9 41.9#
89 0.0 47.9 71.9#
182 32.1 2.2 3.4#





#58

Fluorene

Concen: 5.922 ng

RT: 10.43 min Scan# 1419

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

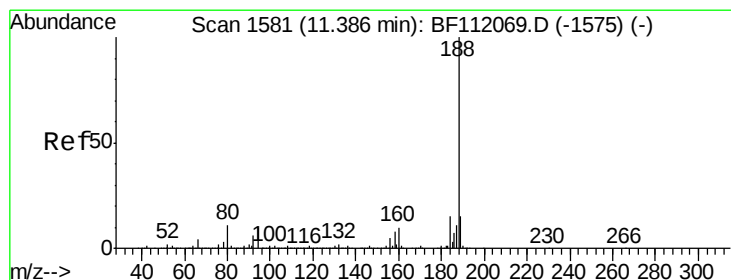
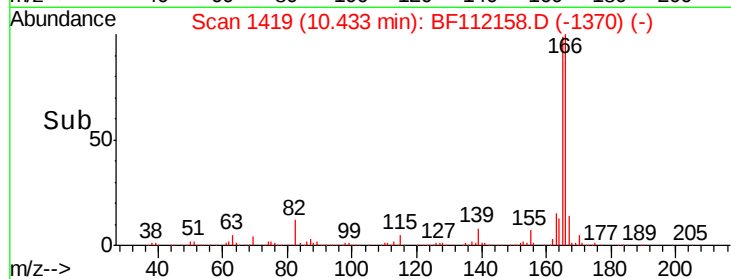
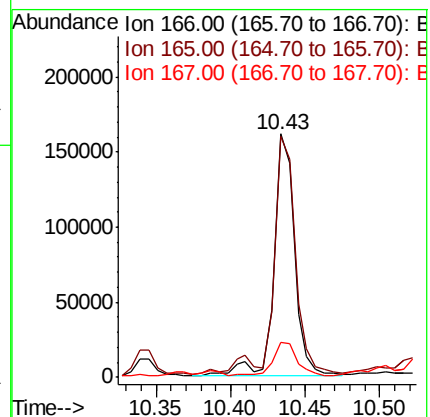
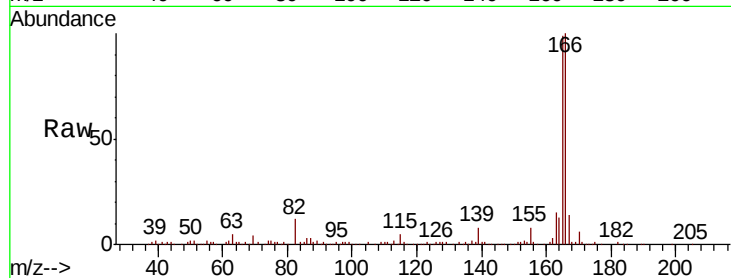
Tot Ion:166 Resp: 154065

Ion Ratio Lower Upper

166 100

165 98.8 77.1 115.7

167 14.4 11.3 16.9



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

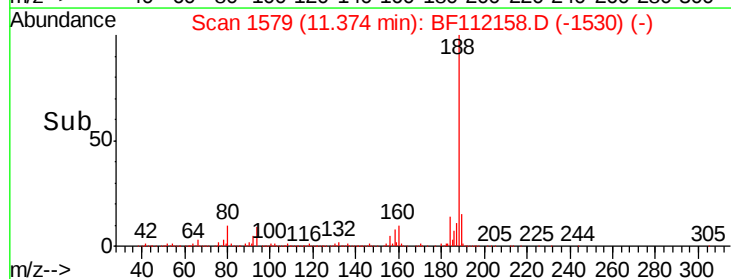
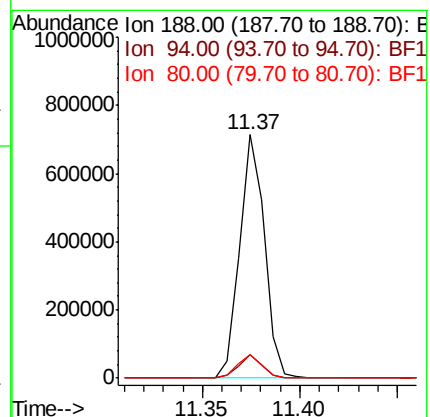
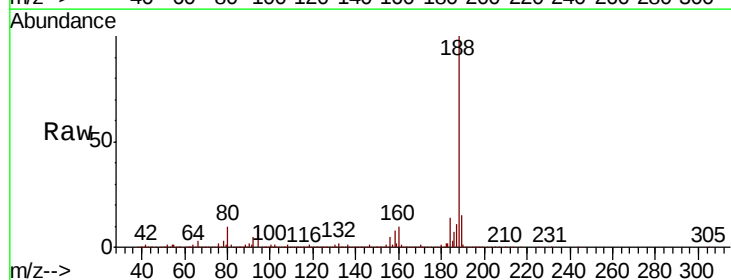
Tgt Ion:188 Resp: 630267

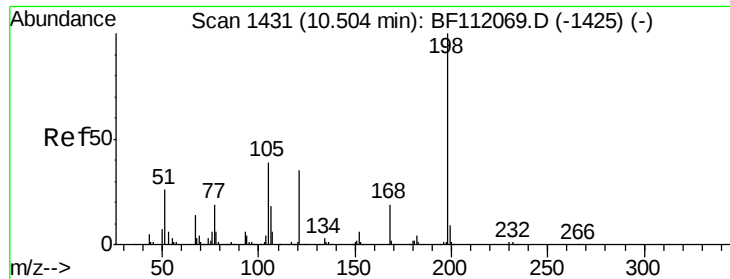
Ion Ratio Lower Upper

188 100

94 9.4 8.2 12.2

80 9.8 8.9 13.3





#65

4,6-Dinitro-2-methylphenol

Concen: 10.182 ng

RT: 10.67 min Scan# 1460

Delta R.T. 0.17 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

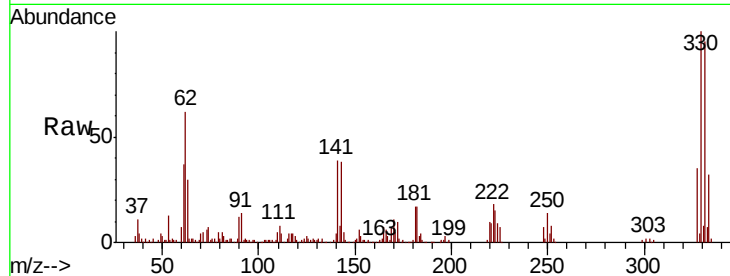
Tot Ion:198 Resp: 375

Ion Ratio Lower Upper

198 100

51 352.8 17.2 57.2#

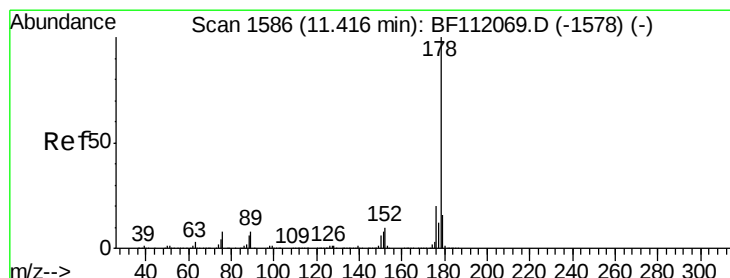
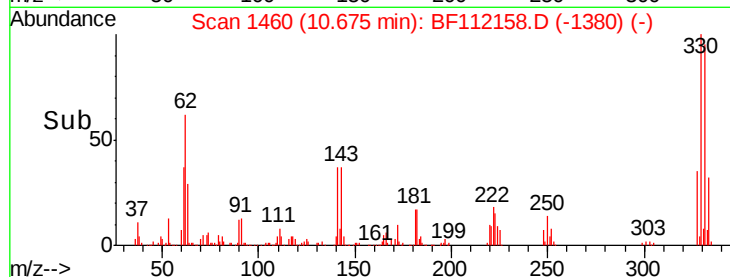
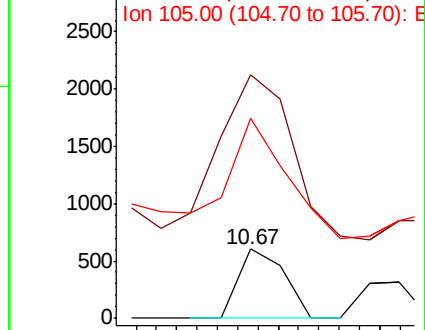
105 290.0 21.9 61.9#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#71

Phenanthrene

Concen: 24.835 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

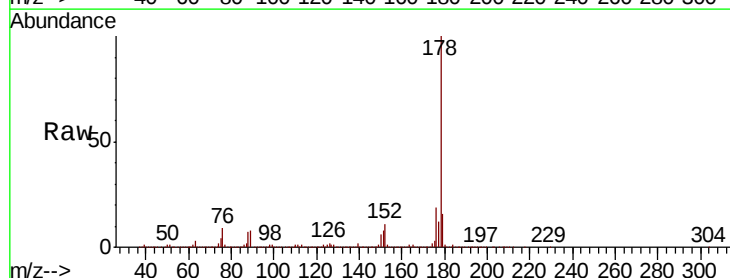
Tgt Ion:178 Resp: 787734

Ion Ratio Lower Upper

178 100

176 18.9 16.3 24.5

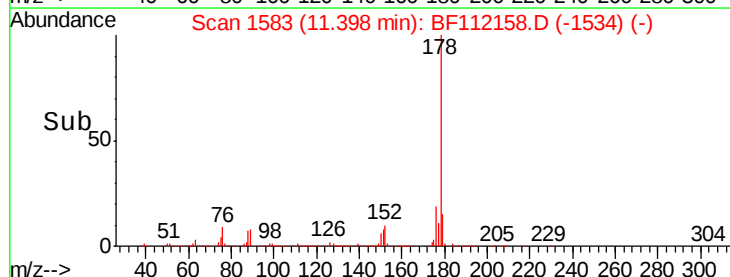
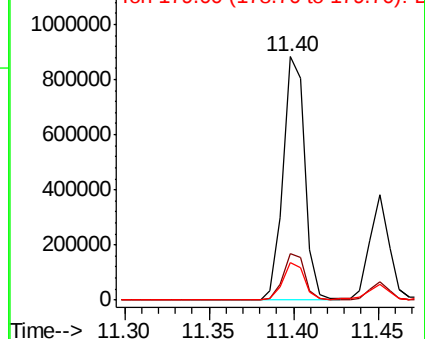
179 15.5 13.0 19.4

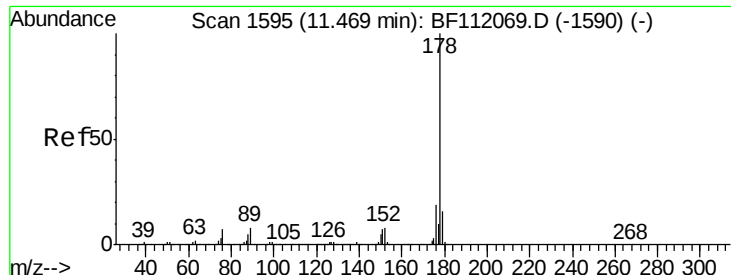


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 9.183 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

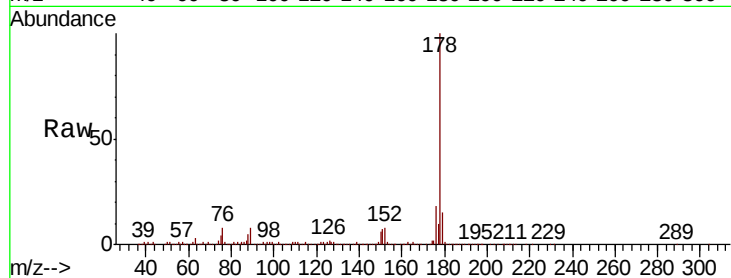
Tot Ion:178 Resp: 295065

Ion Ratio Lower Upper

178 100

176 17.7 15.5 23.3

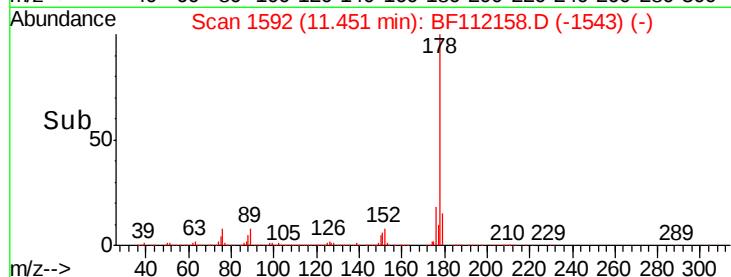
179 15.4 12.8 19.2



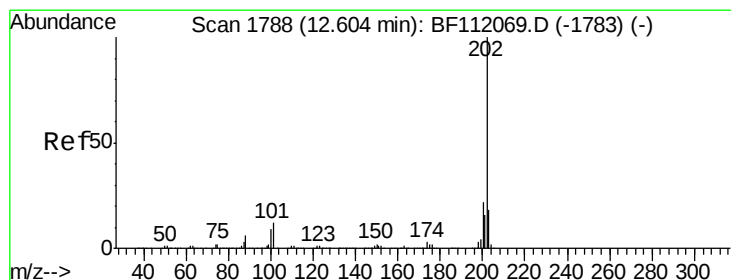
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#75

Fluoranthene

Concen: 35.531 ng

RT: 12.59 min Scan# 1786

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

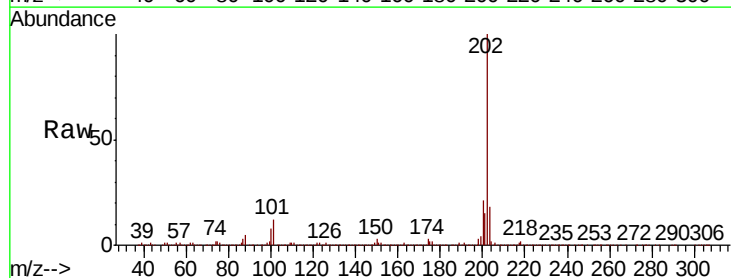
Tgt Ion:202 Resp: 1189913

Ion Ratio Lower Upper

202 100

101 11.6 0.0 31.8

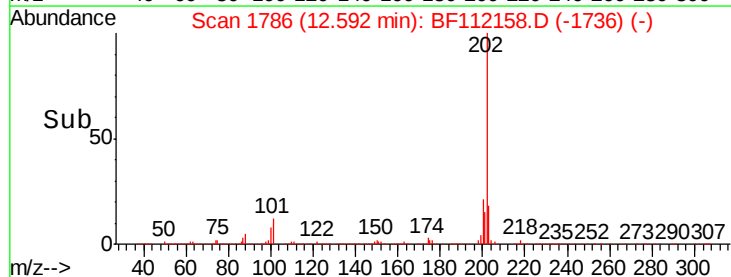
203 18.4 0.0 38.4



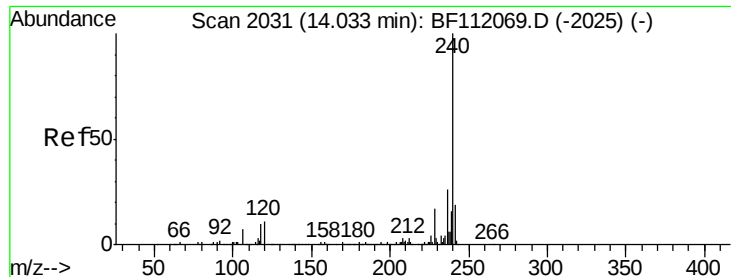
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



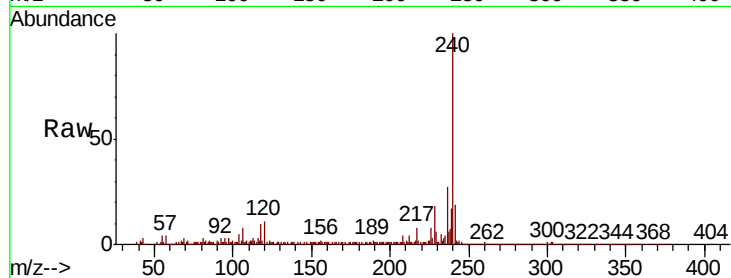
Time-->



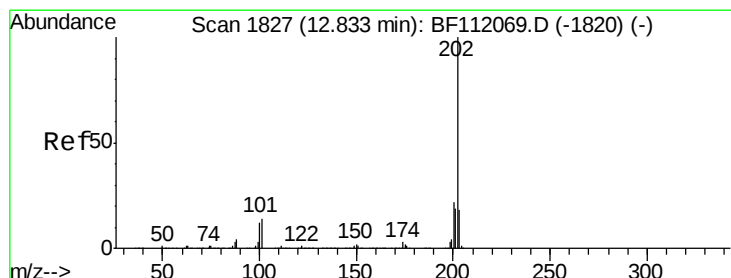
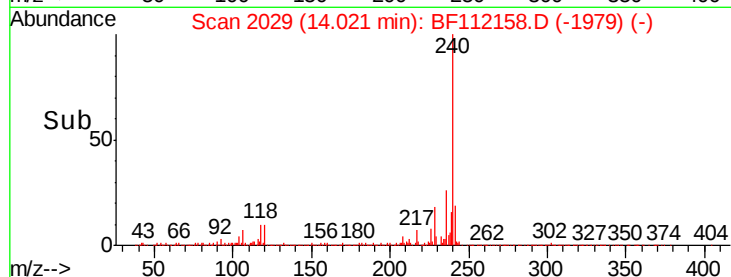
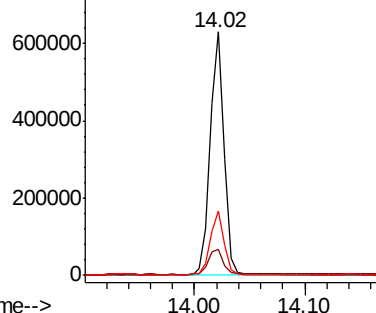
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-C

Tot Ion:240 Resp: 553243
Ion Ratio Lower Upper
240 100
120 10.7 9.0 13.6
236 26.6 20.7 31.1

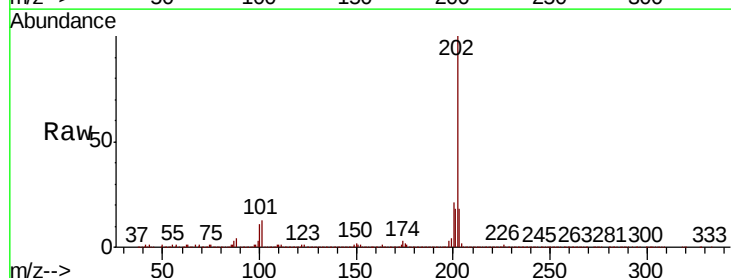


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

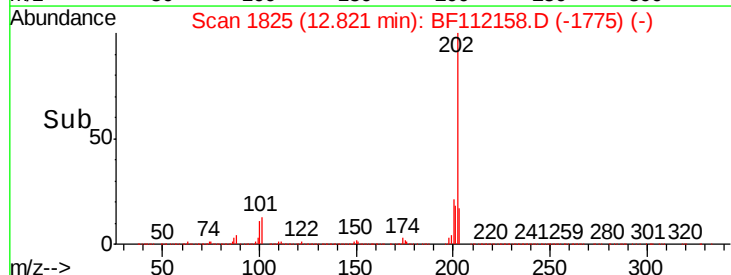
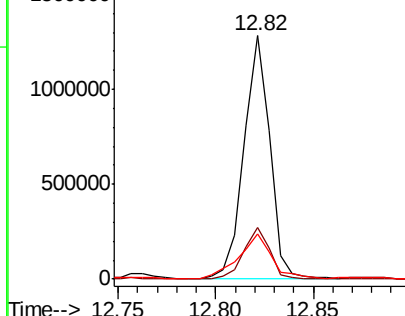


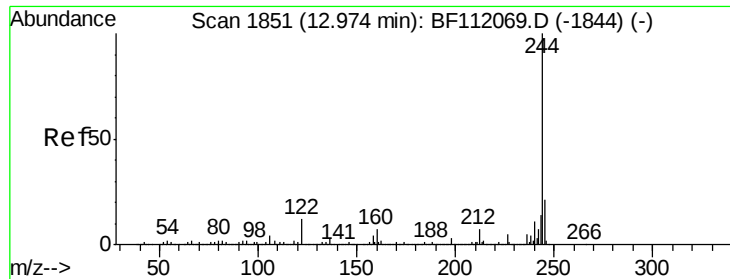
#78
Pyrene
Concen: 32.134 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Tgt Ion:202 Resp: 1172915
Ion Ratio Lower Upper
202 100
200 21.5 17.7 26.5
203 18.5 14.6 22.0



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





#79

Terphenyl-d14

Concen: 31.405 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

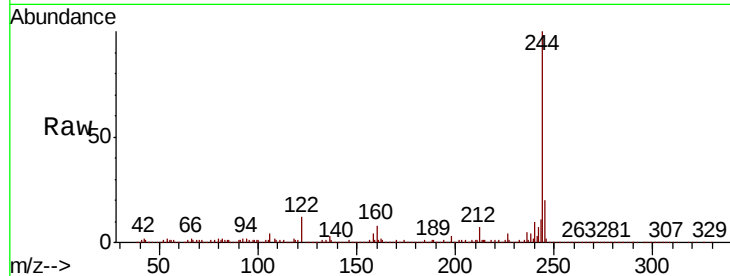
Tot Ion:244 Resp: 816709

Ion Ratio Lower Upper

244 100

212 6.7 5.9 8.9

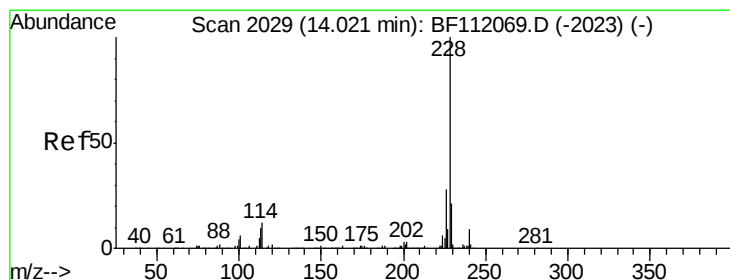
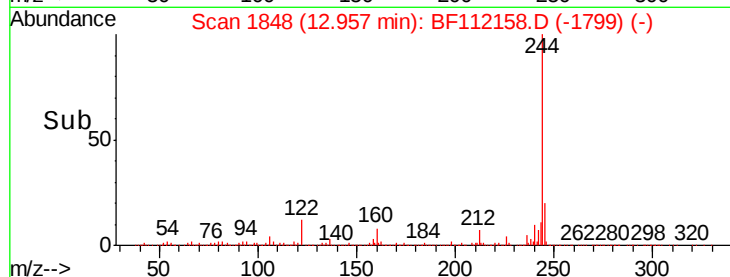
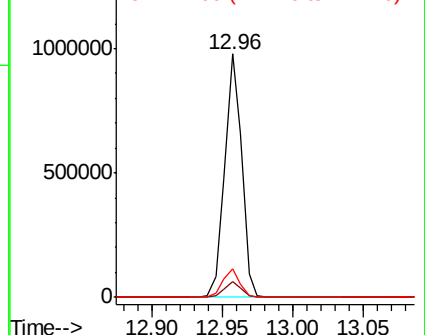
122 11.9 9.8 14.6



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



#81

Benzo(a)anthracene

Concen: 18.808 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

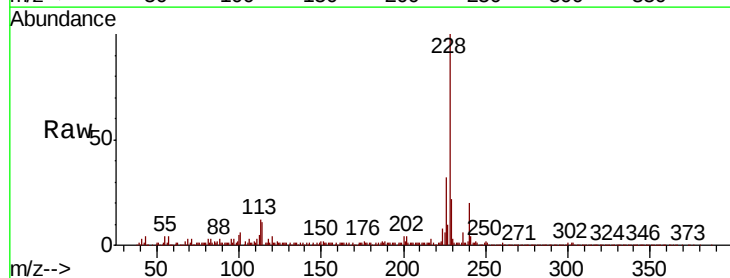
Tgt Ion:228 Resp: 596619

Ion Ratio Lower Upper

228 100

226 31.8 22.6 34.0

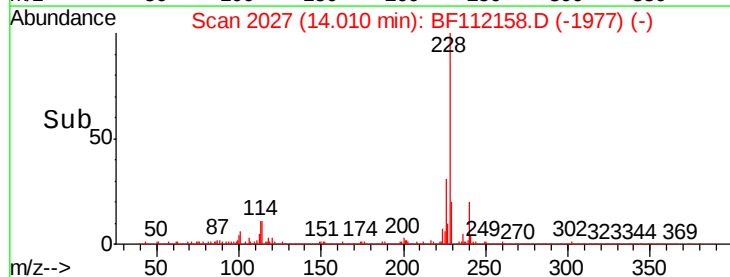
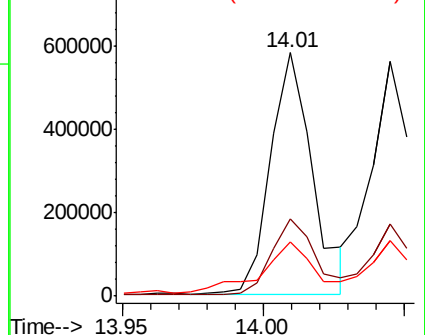
229 22.1 16.5 24.7

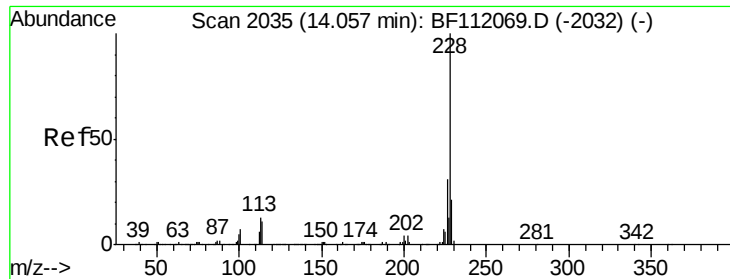


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 17.523 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

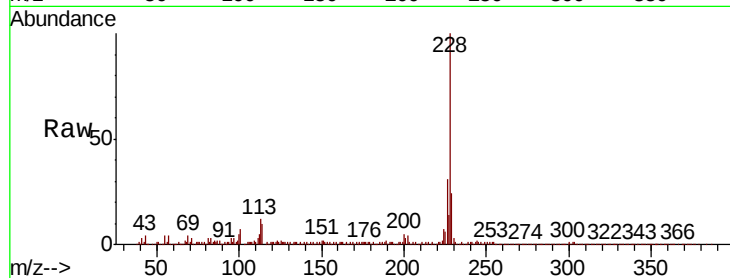
Tot Ion:228 Resp: 525962

Ion Ratio Lower Upper

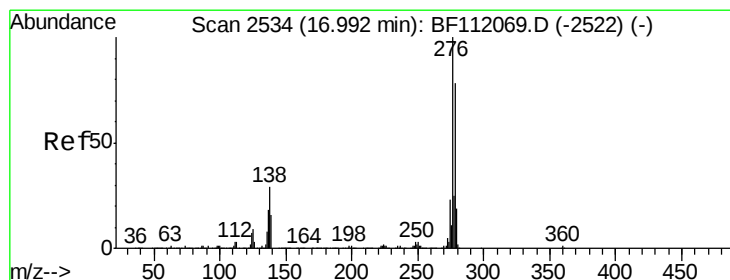
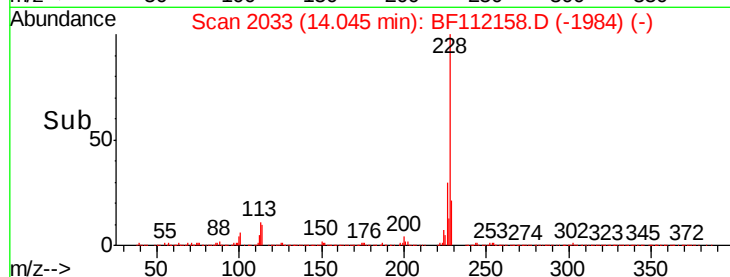
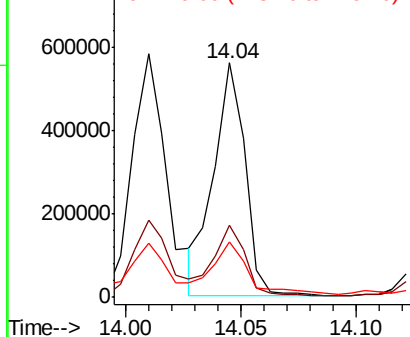
228 100

226 30.9 25.0 37.6

229 23.7 16.6 24.8



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

Indeno(1,2,3-cd)pyrene

Concen: 8.478 ng

RT: 16.97 min Scan# 2531

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

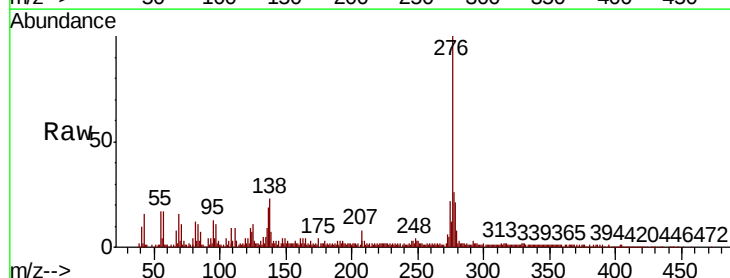
Tgt Ion:276 Resp: 234777

Ion Ratio Lower Upper

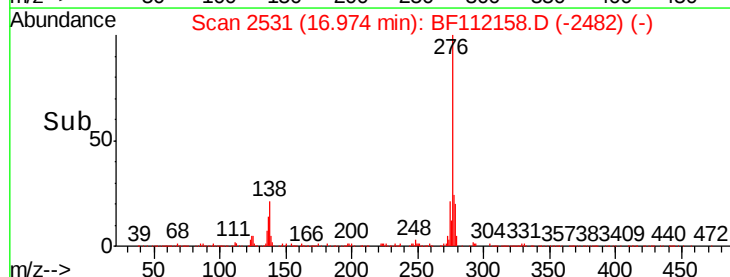
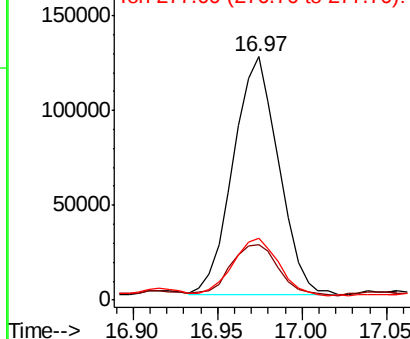
276 100

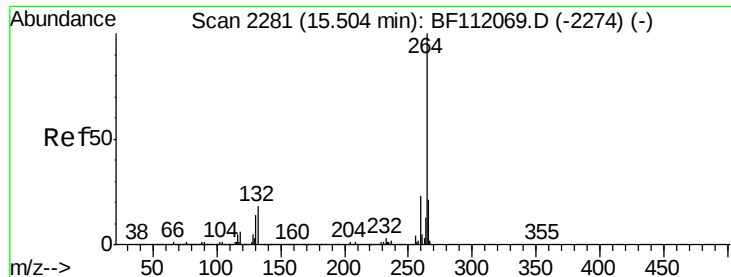
138 22.8 22.6 34.0

277 24.9 20.3 30.5



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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.49 min Scan# 2279

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

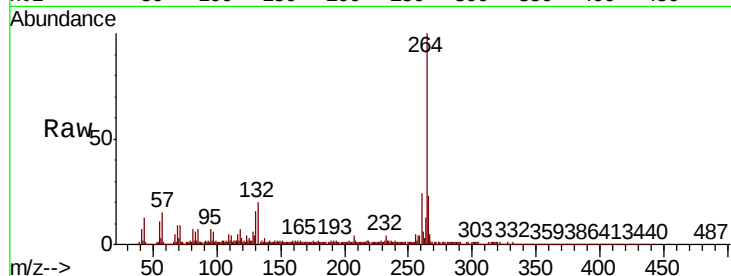
Tot Ion:264 Resp: 404550

Ion Ratio Lower Upper

264 100

260 23.9 18.2 27.2

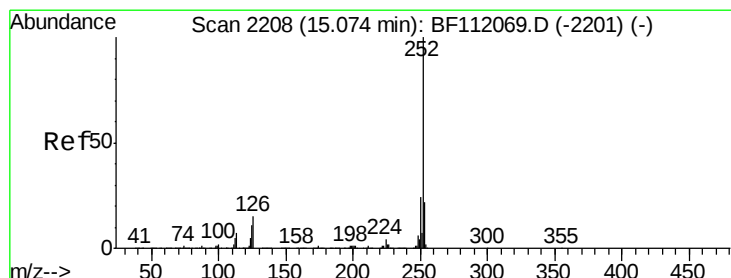
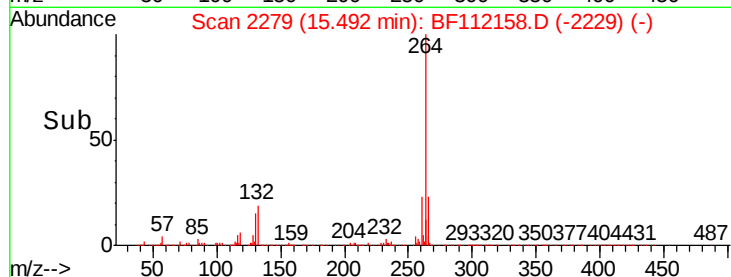
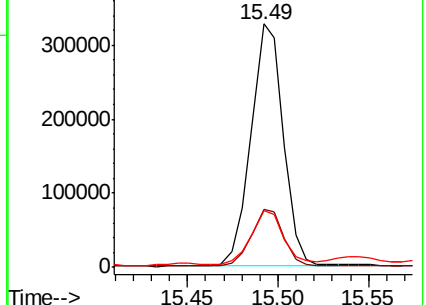
265 23.4 17.0 25.4



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



#88

Benzo(b)fluoranthene

Concen: 32.672 ng

RT: 15.06 min Scan# 2206

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

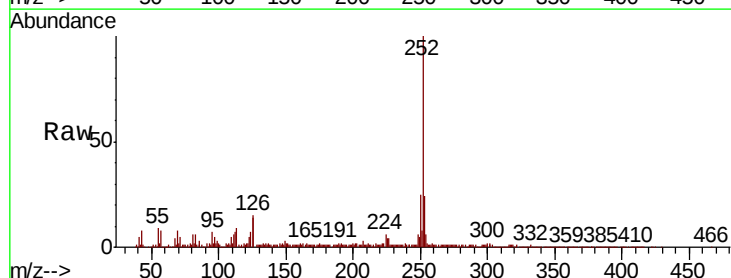
Tgt Ion:252 Resp: 750267

Ion Ratio Lower Upper

252 100

253 24.3 18.0 27.0

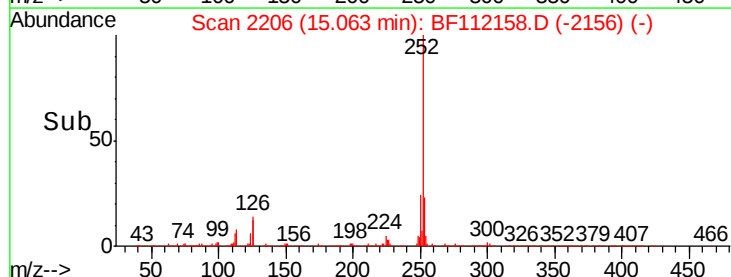
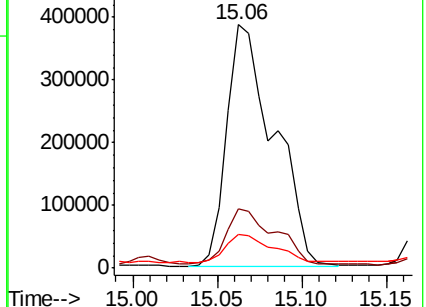
125 14.0 8.7 13.1#

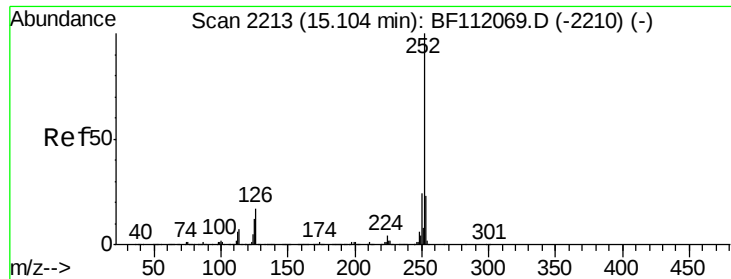


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

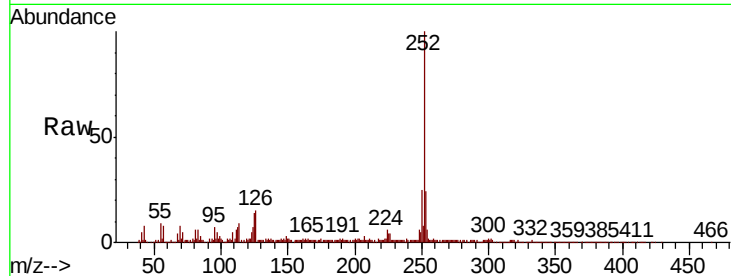




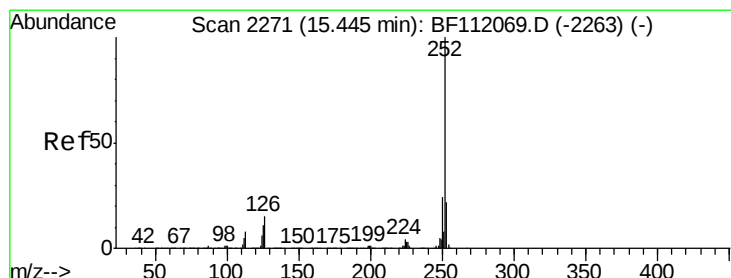
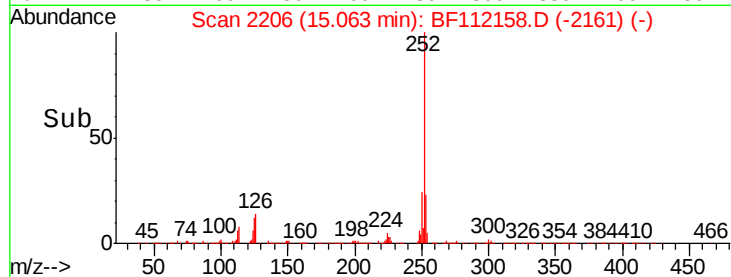
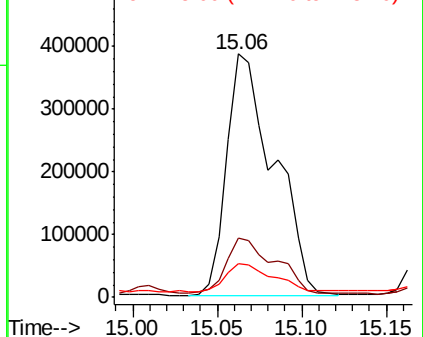
#89
Benzo(k)fluoranthene
Concen: 33.756 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.04 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Instrument :
BNA_F
ClientSampleId :
CL-01-011819-C

Tot Ion:252 Resp: 750267
Ion Ratio Lower Upper
252 100
253 24.3 18.0 27.0
125 14.0 9.1 13.7#

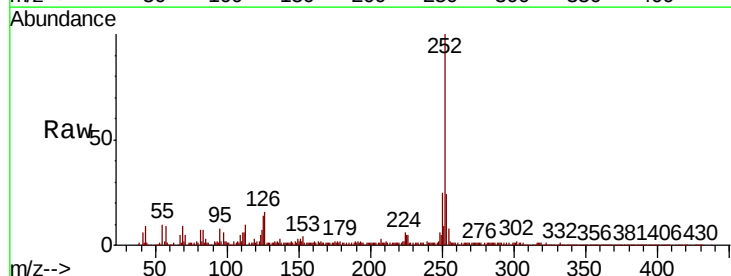


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

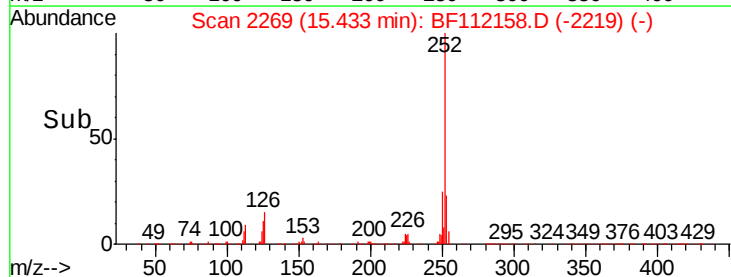
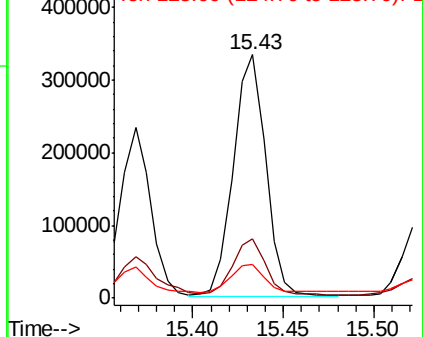


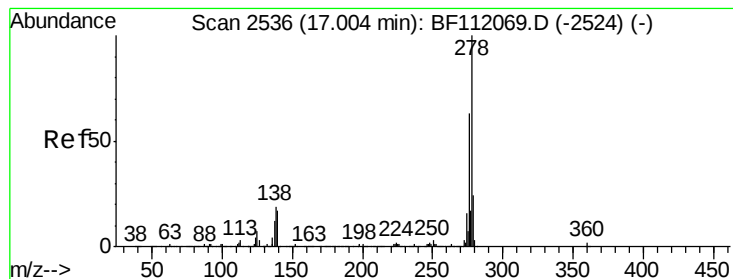
#90
Benzo(a)pyrene
Concen: 19.584 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF112158.D
Acq: 21 Jan 2019 15:01

Tgt Ion:252 Resp: 412440
Ion Ratio Lower Upper
252 100
253 24.2 17.5 26.3
125 13.8 9.0 13.4#



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





#91

Dibenzo(a,h)anthracene

Concen: 3.070 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.02 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

Instrument :

BNA_F

ClientSampleId :

CL-01-011819-C

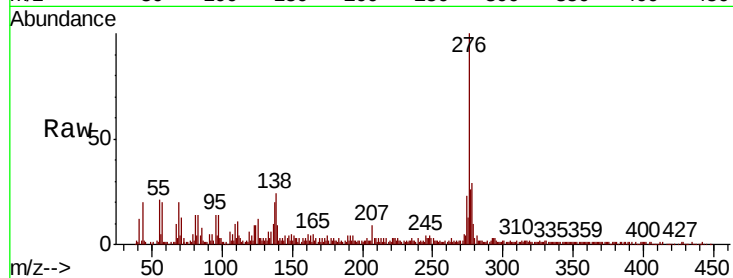
Tot Ion:278 Resp: 57419

Ion Ratio Lower Upper

278 100

139 30.1 13.7 20.5#

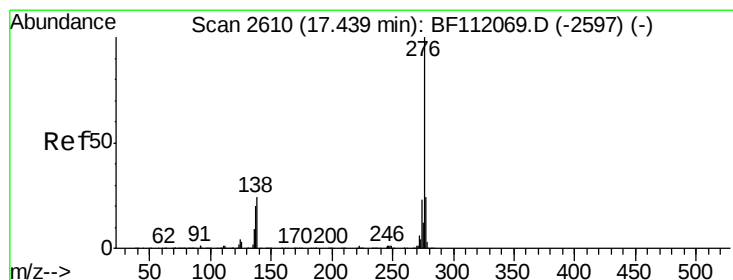
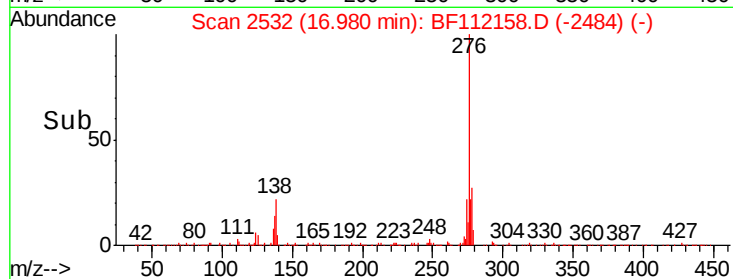
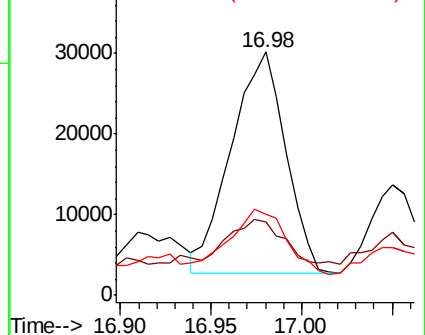
279 33.5 19.0 28.6#



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



#92

Benzo(g,h,i)perylene

Concen: 12.473 ng

RT: 17.42 min Scan# 2607

Delta R.T. -0.01 min

Lab File: BF112158.D

Acq: 21 Jan 2019 15:01

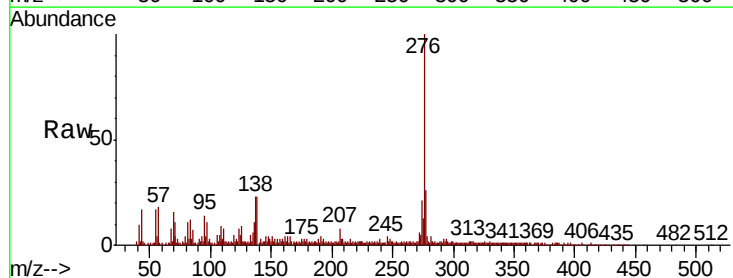
Tgt Ion:276 Resp: 229847

Ion Ratio Lower Upper

276 100

277 25.8 19.4 29.0

138 23.2 19.1 28.7



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

