

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032619\
 Data File : BF113317.D
 Acq On : 27 Mar 2019 3:45
 Operator : JU/SJ
 Sample : K1693-15 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-032519-B

Quant Time: Mar 27 05:04:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 03:32:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	154700	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	564794	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	218735	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	386406	20.00	ng	0.00
76) Chrysene-d12	13.84	240	419680	20.00	ng	0.00
87) Perylene-d12	15.24	264	355841	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.31	112	216962	22.93	ng	0.00
7) Phenol-d6	6.34	99	312297	26.09	ng	-0.02
23) Nitrobenzene-d5	7.26	82	162938	17.12	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	56747	21.00	ng	-0.01
45) 2-Fluorobiphenyl	9.06	172	304381	5.27	ng	0.00
79) Terphenyl-d14	12.79	244	295247	15.51	ng	-0.01

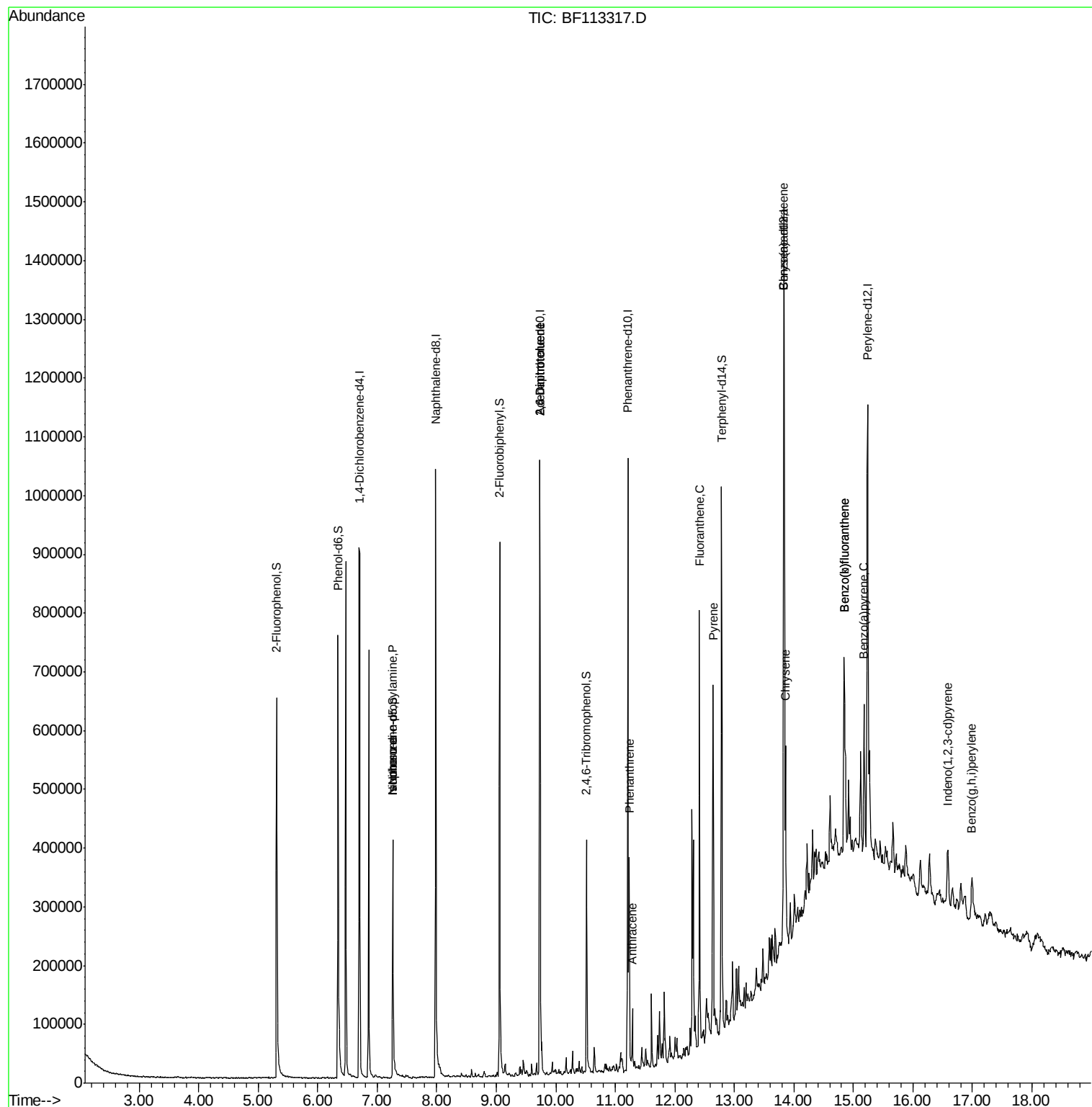
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.26	70	20761	2.761	ng	# 80
25) Isophorone	7.26	82	152961	8.295	ng	# 64
51) 2,6-Dinitrotoluene	9.73	165	27893	7.627	ng	# 26
57) 2,4-Dinitrotoluene	9.73	165	27893	5.998	ng	# 23
71) Phenanthrene	11.23	178	132272	6.893	ng	97
72) Anthracene	11.29	178	46080	2.364	ng	98
75) Fluoranthene	12.42	202	295723	13.632	ng	98
78) Pyrene	12.65	202	269383	9.263	ng	99
81) Benzo(a)anthracene	13.83	228	145778	6.068	ng	99
83) Chrysene	13.86	228	141702	5.807	ng	97
86) Indeno(1,2,3-cd)pyrene	16.59	276	64680	3.089	ng	98
88) Benzo(b)fluoranthene	14.84	252	236946	10.719	ng	# 97
89) Benzo(k)fluoranthene	14.84	252	236946	12.206	ng	# 96
90) Benzo(a)pyrene	15.18	252	122160	6.234	ng	# 95
92) Benzo(g,h,i)perylene	16.99	276	62497	3.658	ng	92

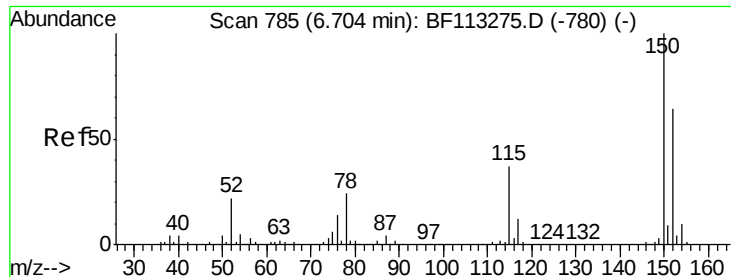
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.70 min Scan# 785

Delta R.T. 0.00 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

Instrument :

BNA_F

ClientSampleId :

OR-01-032519-B

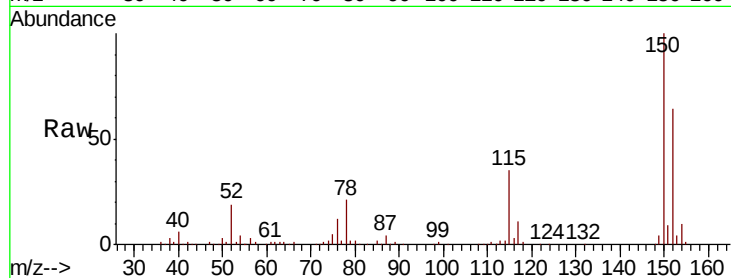
Tgt Ion:152 Resp: 154700

Ion Ratio Lower Upper

152 100

150 156.7 124.7 187.1

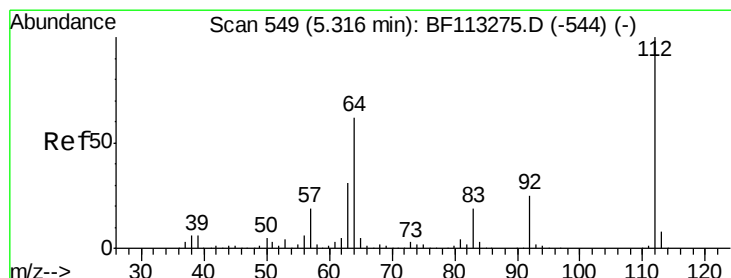
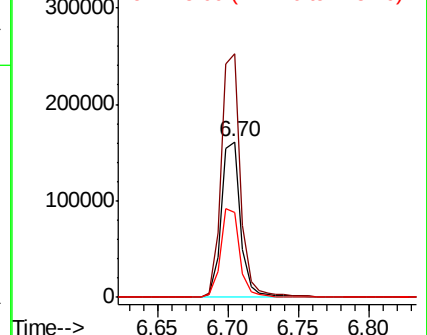
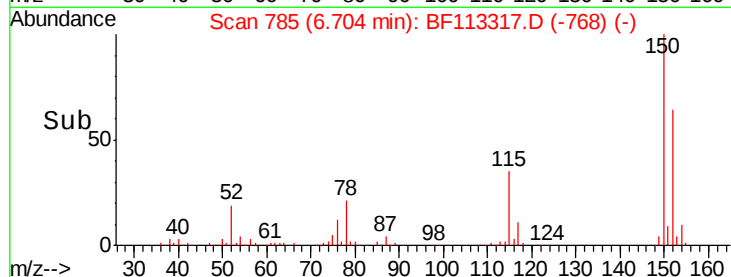
115 54.9 46.0 69.0



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: 22.932 ng

RT: 5.31 min Scan# 548

Delta R.T. -0.01 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

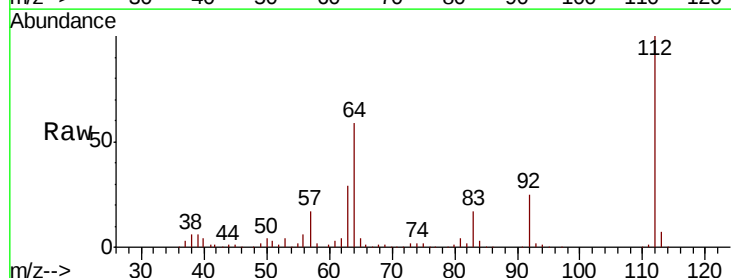
Tgt Ion:112 Resp: 216962

Ion Ratio Lower Upper

112 100

64 59.2 49.2 73.8

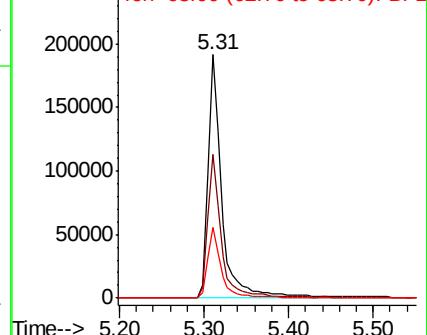
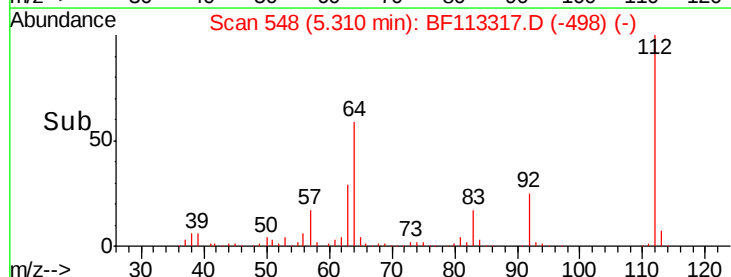
63 29.2 24.9 37.3



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: 26.093 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

Instrument :

BNA_F

ClientSampleId :

OR-01-032519-B

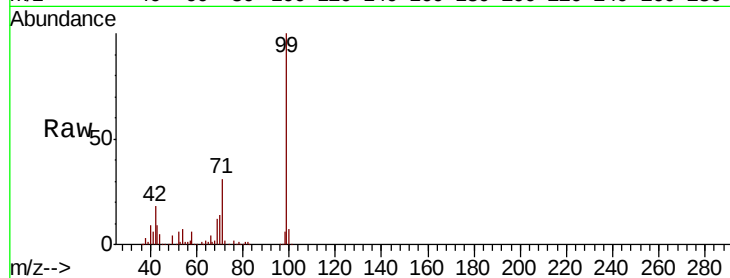
Tgt Ion: 99 Resp: 312297

Ion Ratio Lower Upper

99 100

42 17.9 14.8 22.2

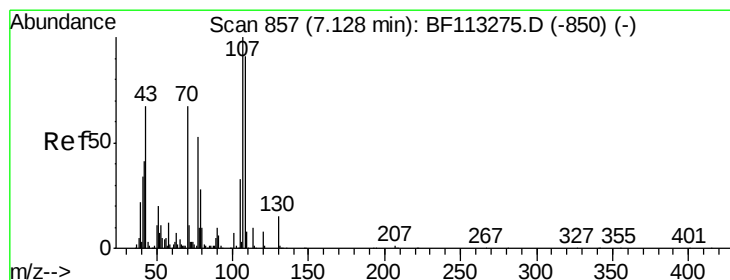
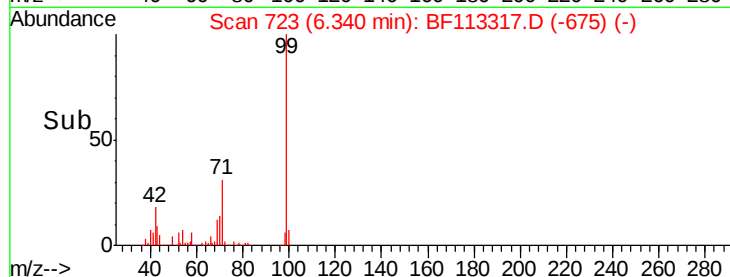
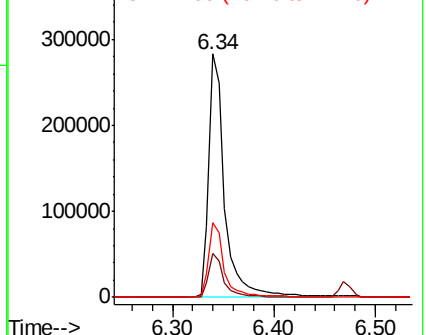
71 30.8 24.9 37.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.761 ng

RT: 7.26 min Scan# 880

Delta R.T. 0.14 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

Tgt Ion: 70 Resp: 20761

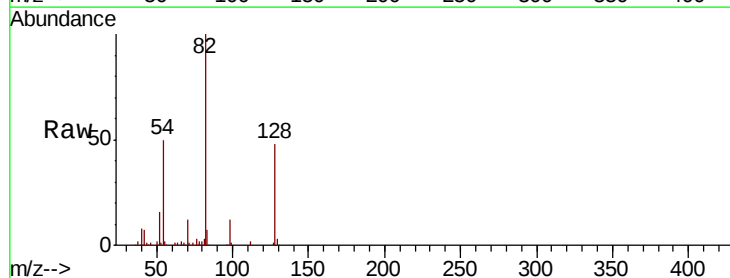
Ion Ratio Lower Upper

70 100

42 53.1 48.4 72.6

101 0.0 7.8 11.8#

130 2.2 18.2 27.4#

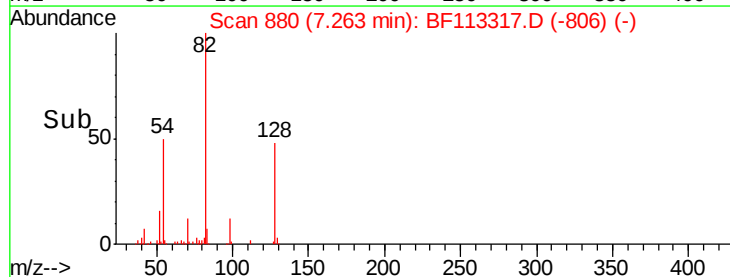
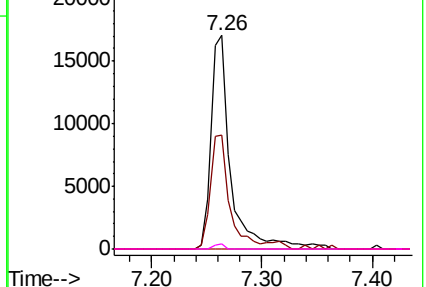


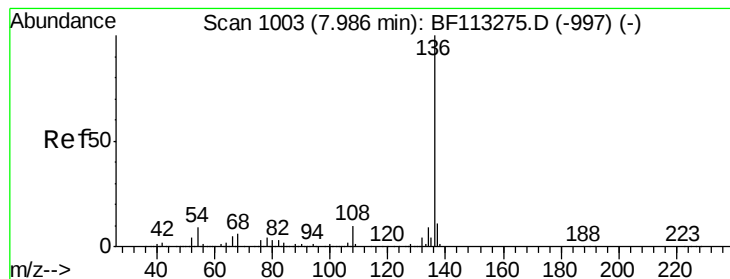
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1003

Delta R.T. 0.00 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

Instrument :

BNA_F

ClientSampleId :

OR-01-032519-B

Tgt Ion: 136 Resp: 564794

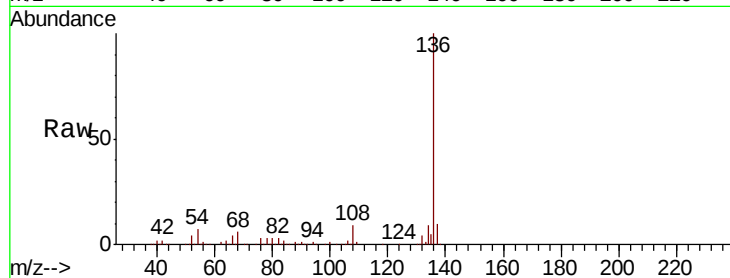
Ion Ratio Lower Upper

136 100

137 10.5 8.9 13.3

54 7.2 7.0 10.6

68 5.6 4.8 7.2

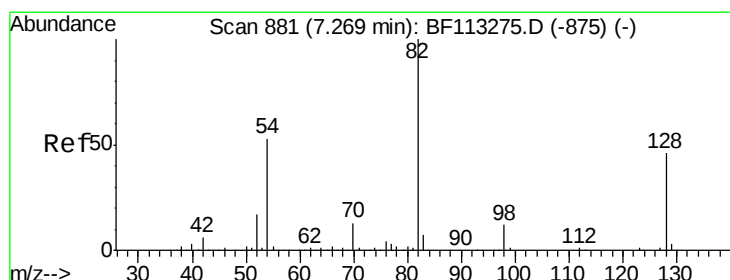
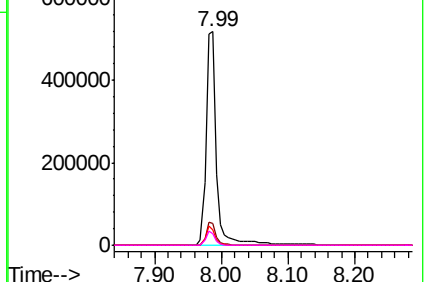
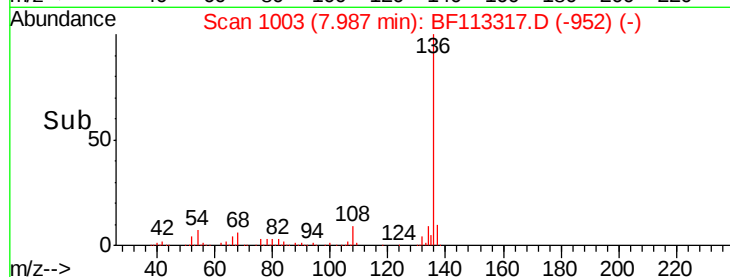


Abundance Ion 136.00 (135.70 to 136.70): E

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: 17.123 ng

RT: 7.26 min Scan# 880

Delta R.T. -0.00 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

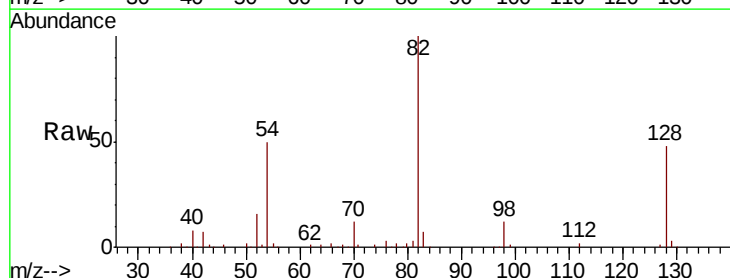
Tgt Ion: 82 Resp: 162938

Ion Ratio Lower Upper

82 100

128 47.7 36.5 54.7

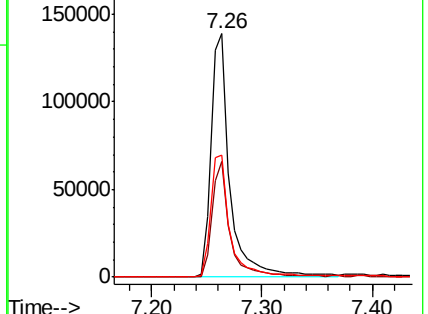
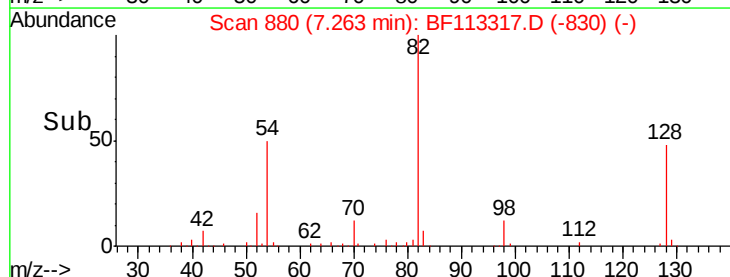
54 50.3 42.2 63.2

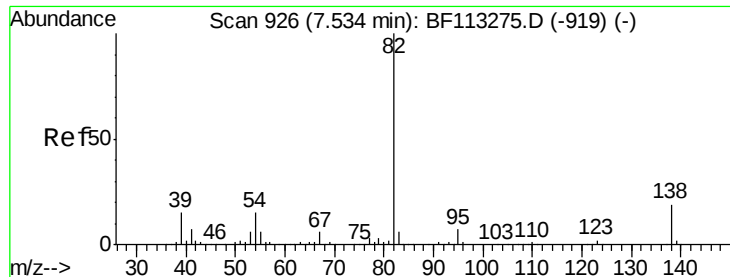


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 8.295 ng

RT: 7.26 min Scan# 880

Delta R.T. -0.27 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

Instrument :

BNA_F

ClientSampleId :

OR-01-032519-B

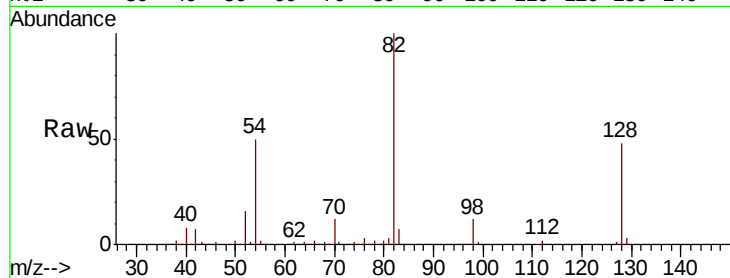
Tgt Ion: 82 Resp: 152961

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

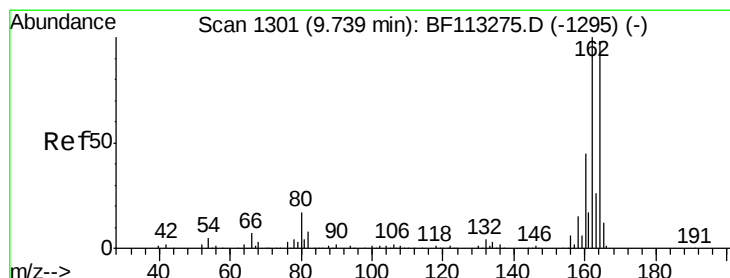
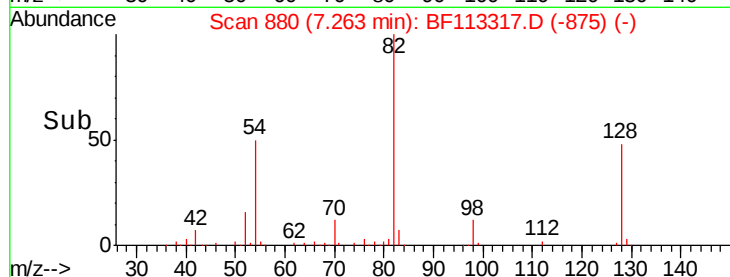
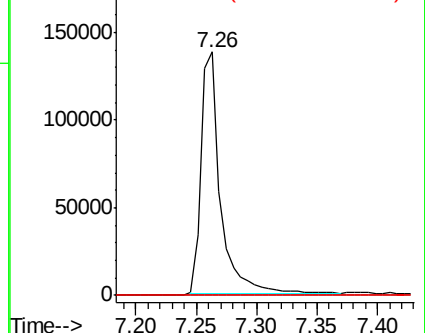
138 0.0 15.2 22.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.73 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

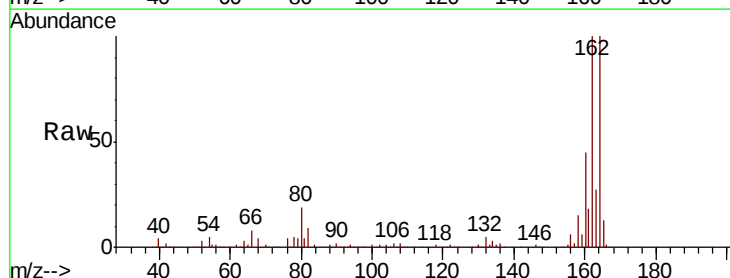
Tgt Ion: 164 Resp: 218735

Ion Ratio Lower Upper

164 100

162 99.9 81.8 122.6

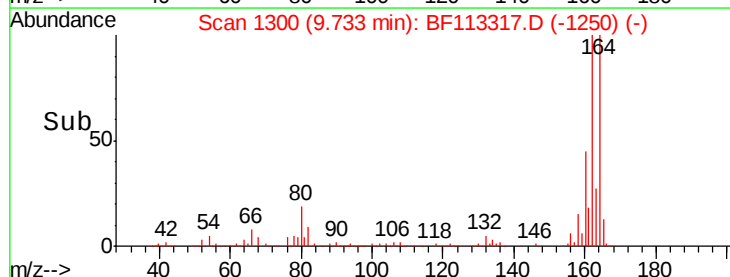
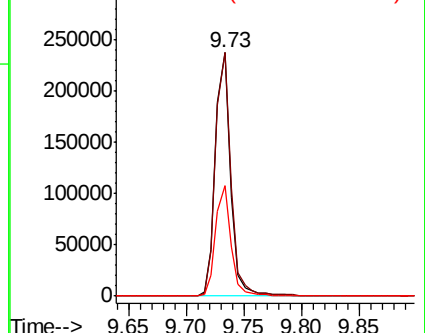
160 45.3 36.4 54.6

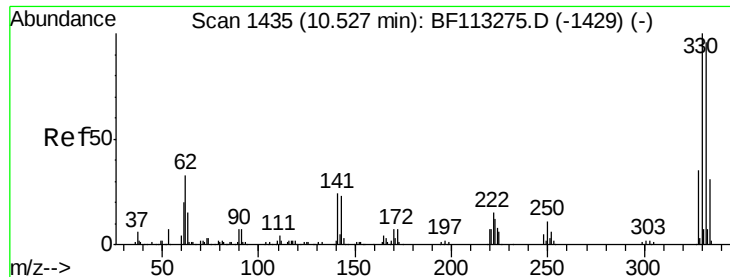


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

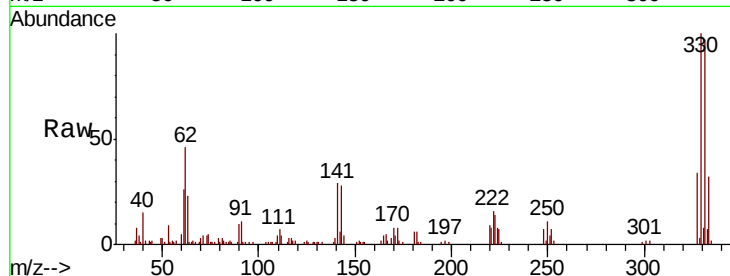




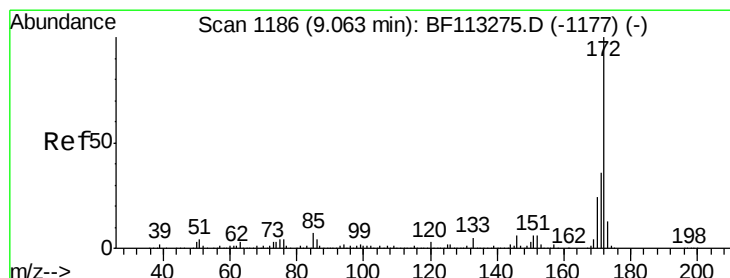
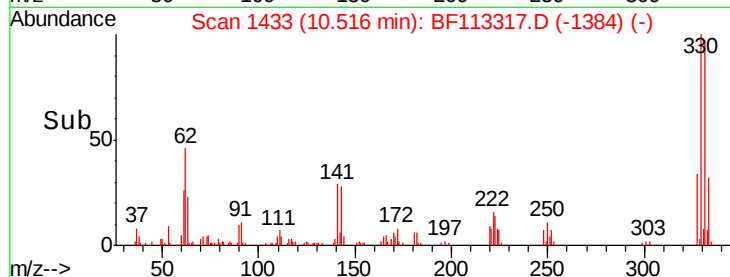
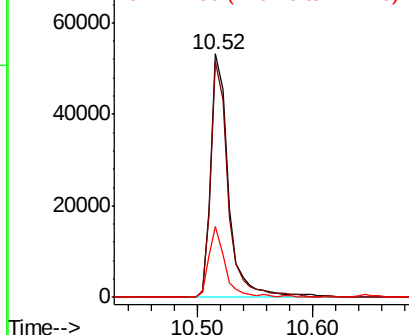
#42
 2,4,6-Tribromophenol
 Concen: 21.003 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: BF113317.D
 Acq: 27 Mar 2019 3:45

Instrument :
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 OR-01-032519-B

Tgt Ion:330 Resp: 56747
 Ion Ratio Lower Upper
 330 100
 332 94.9 77.8 116.6
 141 26.9 22.7 34.1

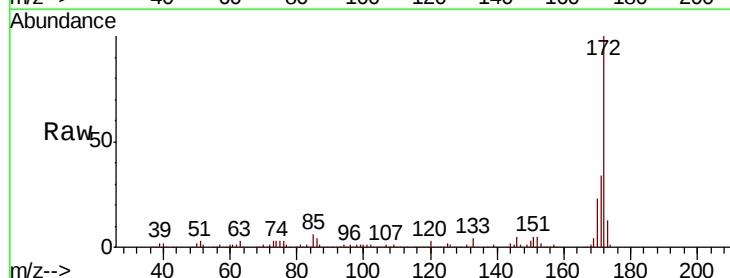


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

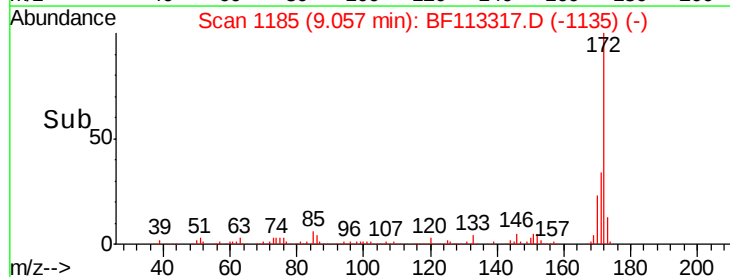
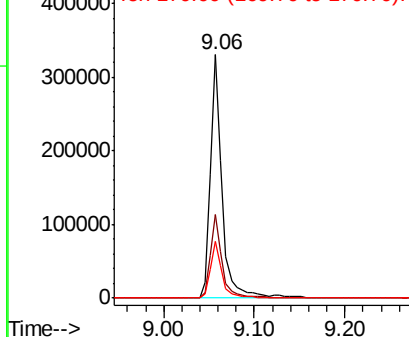


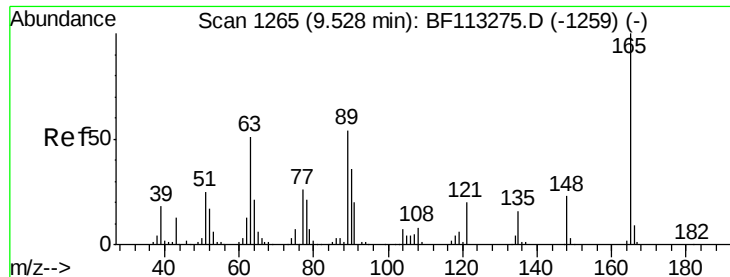
#45
 2-Fluorobiphenyl
 Concen: 5.266 ng
 RT: 9.06 min Scan# 1185
 Delta R.T. -0.00 min
 Lab File: BF113317.D
 Acq: 27 Mar 2019 3:45

Tgt Ion:172 Resp: 304381
 Ion Ratio Lower Upper
 172 100
 171 34.1 29.0 43.6
 170 23.1 19.5 29.3



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

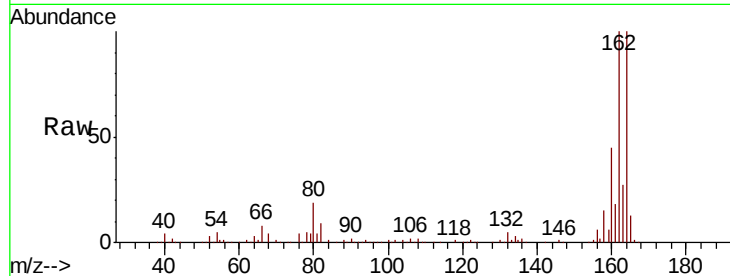




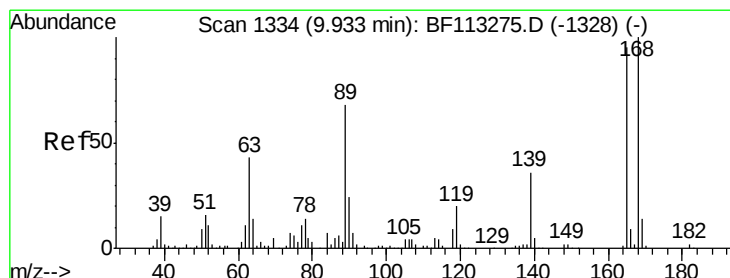
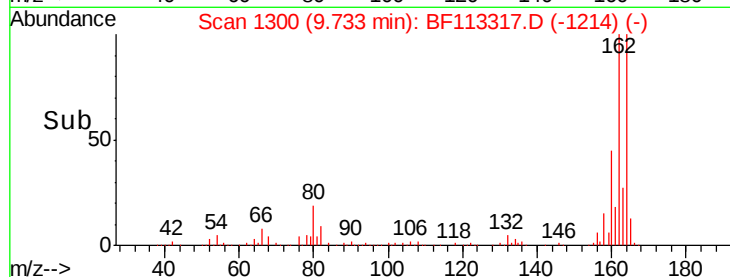
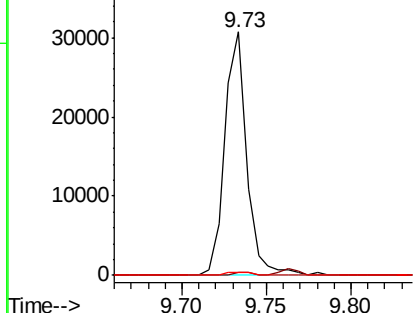
#51
 2,6-Dinitrotoluene
 Concen: 7.627 ng
 RT: 9.73 min Scan# 1300
 Delta R.T. 0.21 min
 Lab File: BF113317.D
 Acq: 27 Mar 2019 3:45

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-032519-B

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	43.4	65.0#
89	1.0	43.1	64.7#



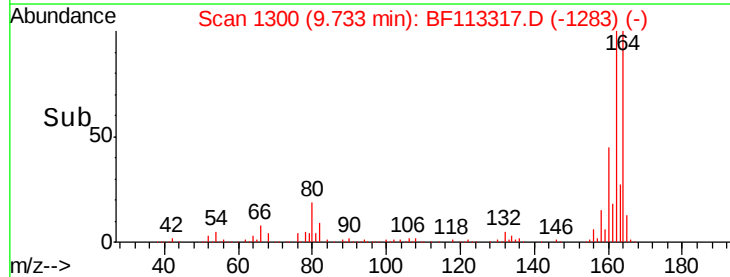
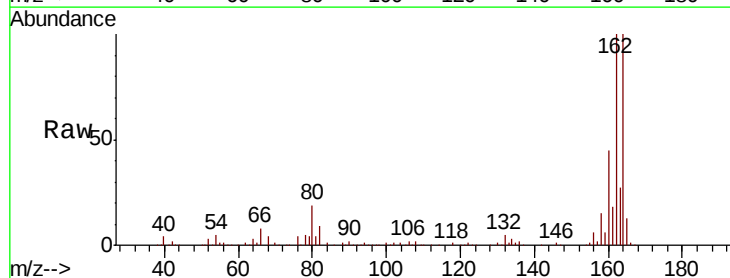
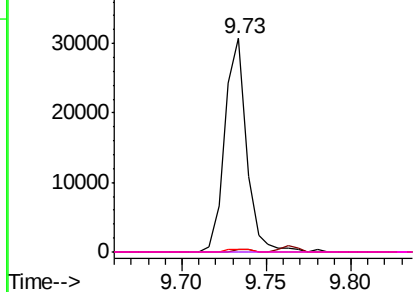
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

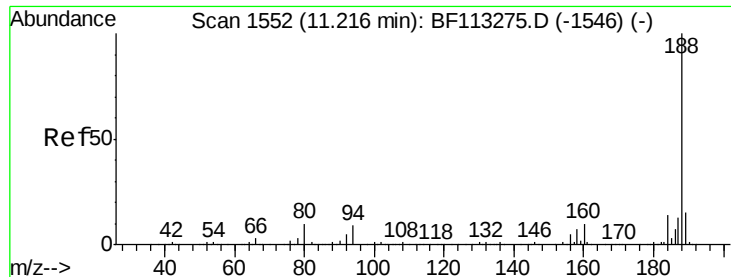


#57
 2,4-Dinitrotoluene
 Concen: 5.998 ng
 RT: 9.73 min Scan# 1300
 Delta R.T. -0.20 min
 Lab File: BF113317.D
 Acq: 27 Mar 2019 3:45

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	37.5	56.3#
89	1.0	57.4	86.2#
182	0.0	2.0	3.0#

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
 Ion 182.00 (181.70 to 182.70): E

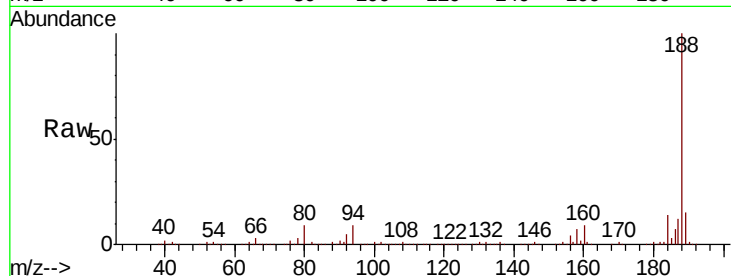




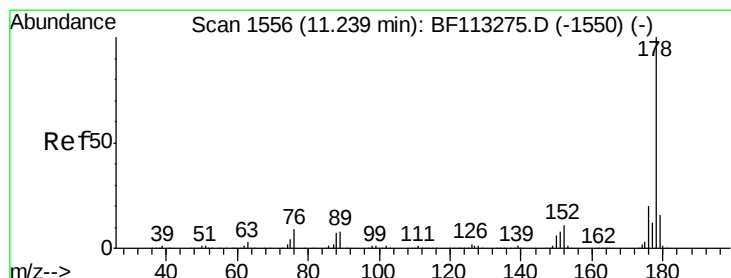
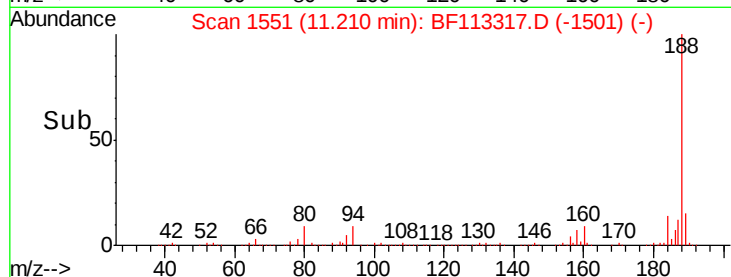
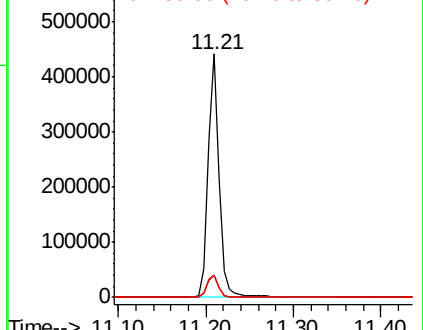
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.21 min Scan# 1551
Delta R.T. -0.01 min
Lab File: BF113317.D
Acq: 27 Mar 2019 3:45

Instrument :
BNA_F
ClientSampleId :
OR-01-032519-B

Tgt Ion:188 Resp: 386406
Ion Ratio Lower Upper
188 100
94 9.0 7.0 10.6
80 9.1 7.7 11.5

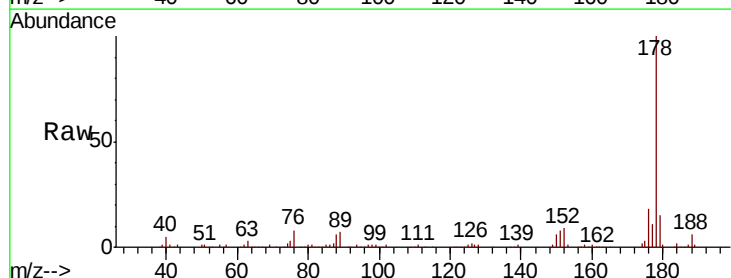


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

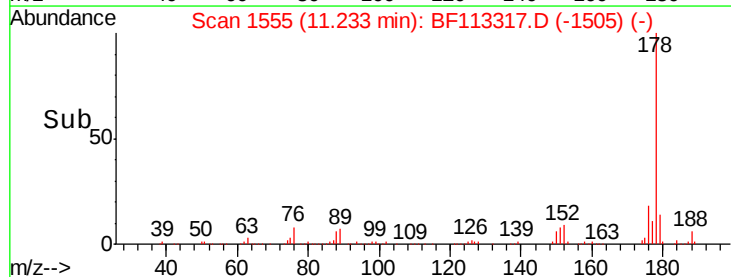
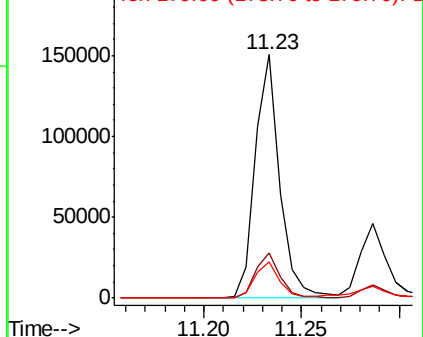


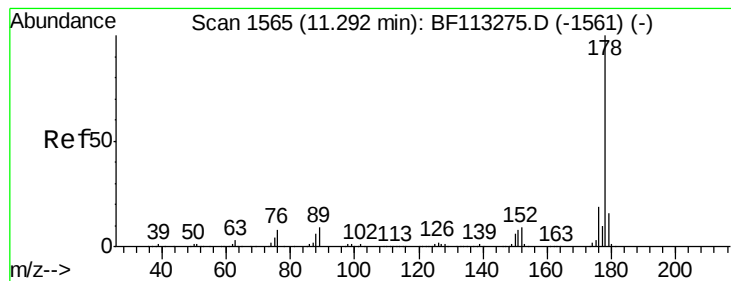
#71
Phenanthrene
Concen: 6.893 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF113317.D
Acq: 27 Mar 2019 3:45

Tgt Ion:178 Resp: 132272
Ion Ratio Lower Upper
178 100
176 18.4 16.2 24.2
179 14.7 12.7 19.1



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: 2.364 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

Instrument :

BNA_F

ClientSampleId :

OR-01-032519-B

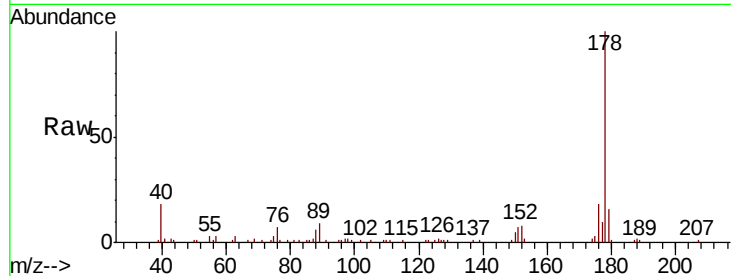
Tgt Ion:178 Resp: 46080

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.2

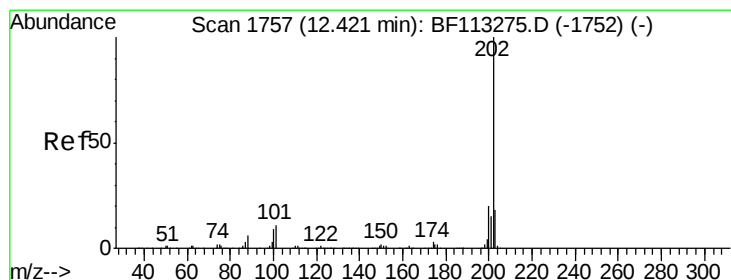
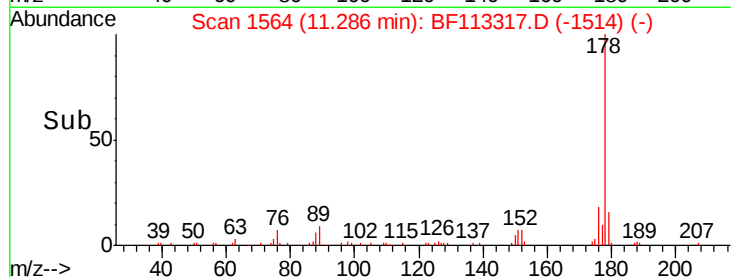
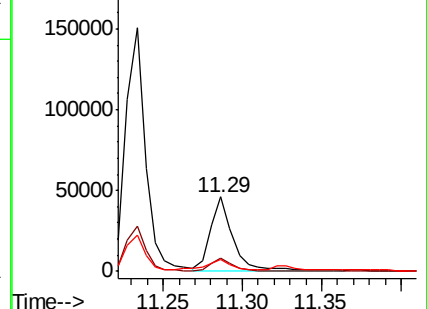
179 16.2 12.8 19.2



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



#75

Fluoranthene

Concen: 13.632 ng

RT: 12.42 min Scan# 1756

Delta R.T. -0.01 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

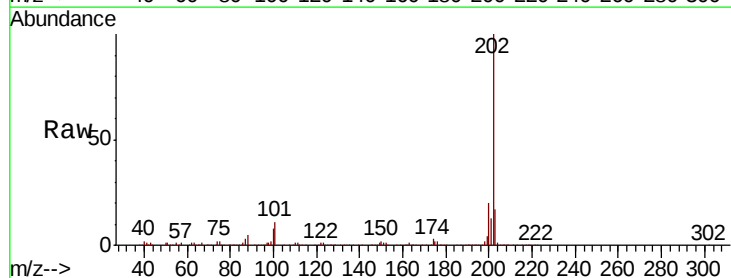
Tgt Ion:202 Resp: 295723

Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.4

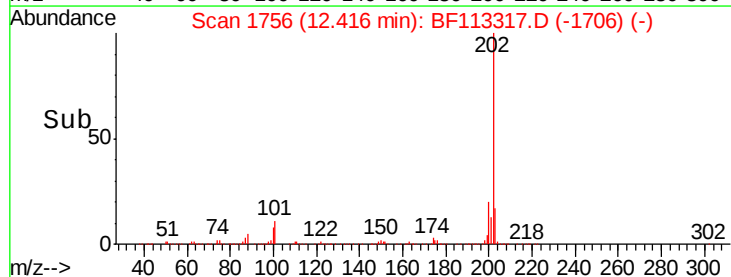
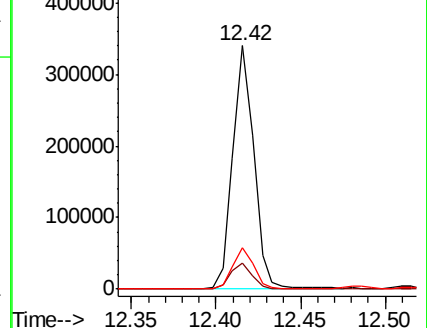
203 17.1 0.0 38.0

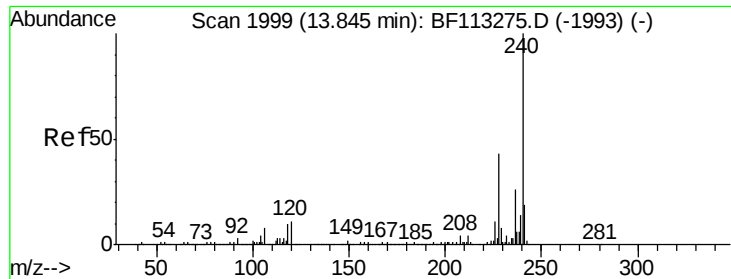


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

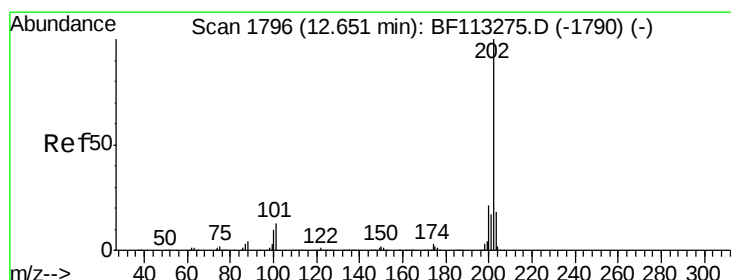
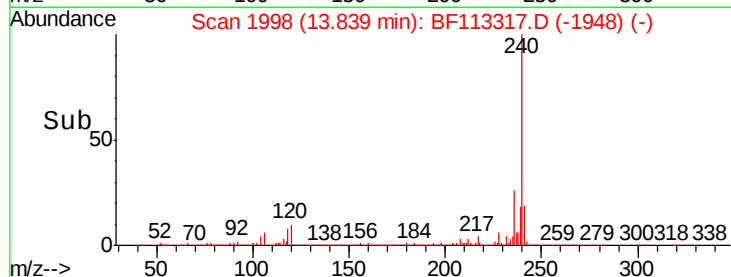
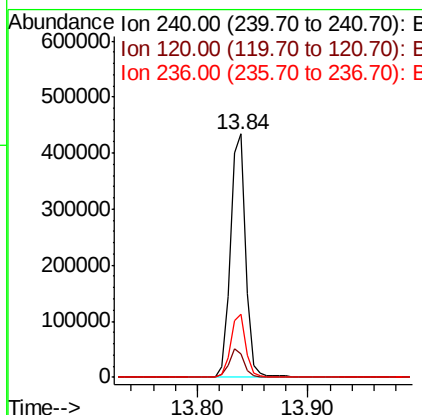
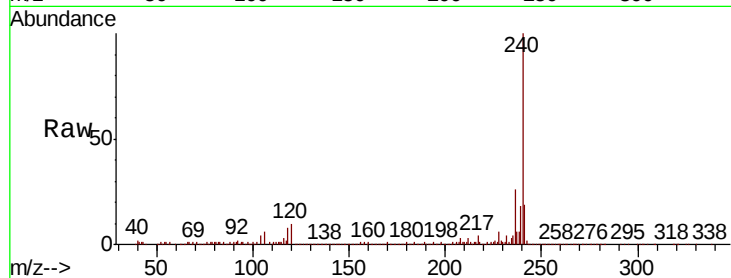




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.84 min Scan# 1998
Delta R.T. -0.01 min
Lab File: BF113317.D
Acq: 27 Mar 2019 3:45

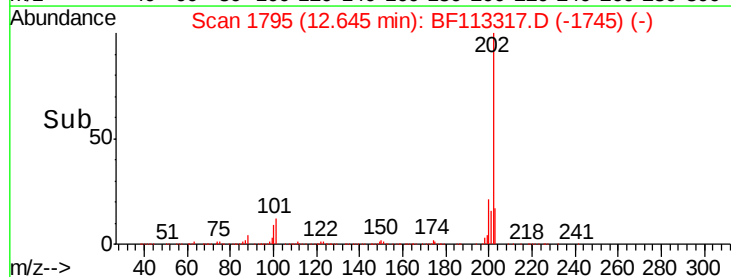
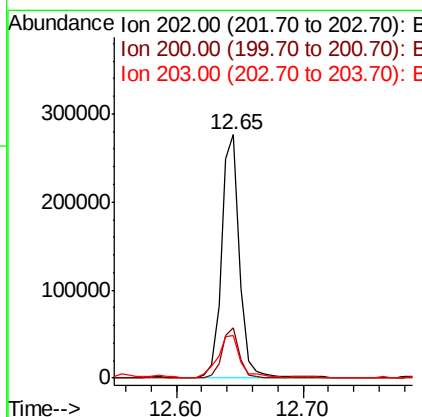
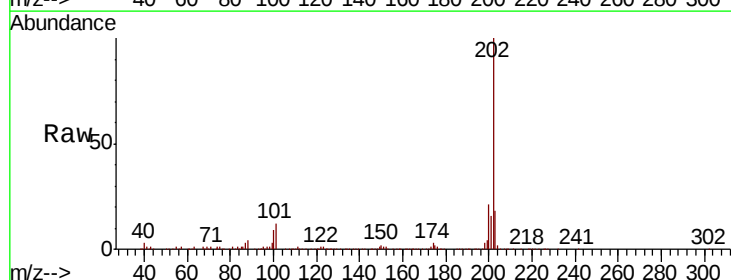
Instrument :
BNA_F
ClientSampleId :
OR-01-032519-B

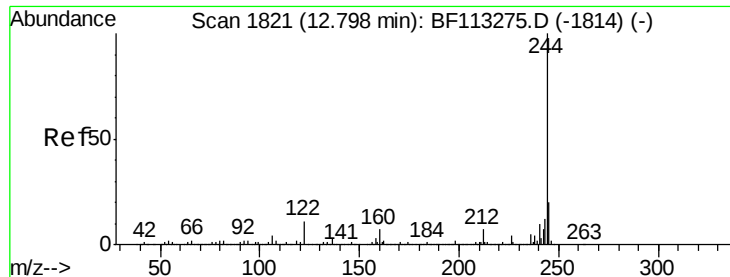
Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.7	8.8	13.2
236	25.7	20.9	31.3



#78
Pyrene
Concen: 9.263 ng
RT: 12.65 min Scan# 1795
Delta R.T. -0.01 min
Lab File: BF113317.D
Acq: 27 Mar 2019 3:45

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.8	25.2
203	17.6	14.4	21.6





#79

Terphenyl-d14

Concen: 15.506 ng

RT: 12.79 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

Instrument :

BNA_F

ClientSampleId :

OR-01-032519-B

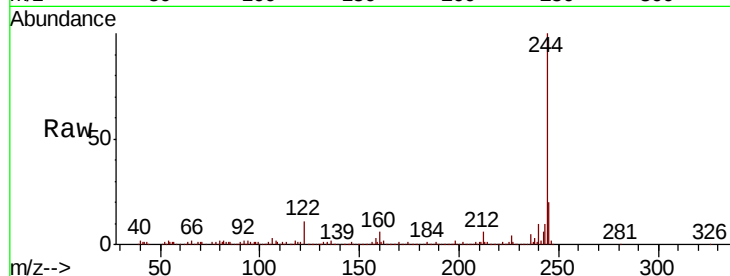
Tgt Ion:244 Resp: 295247

Ion Ratio Lower Upper

244 100

212 6.3 5.5 8.3

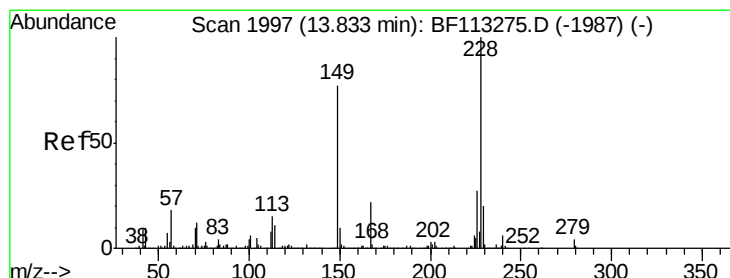
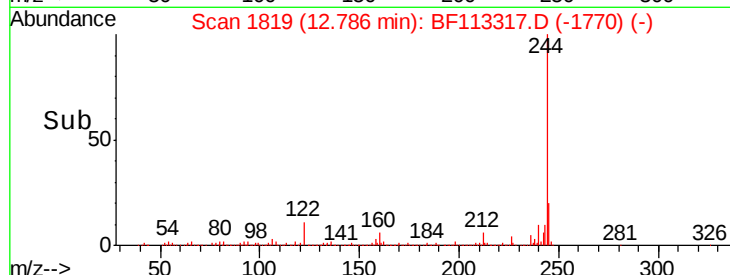
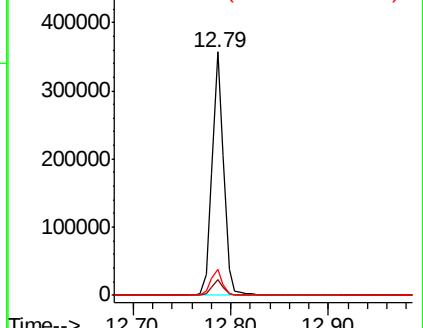
122 10.9 8.6 13.0



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: 6.068 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

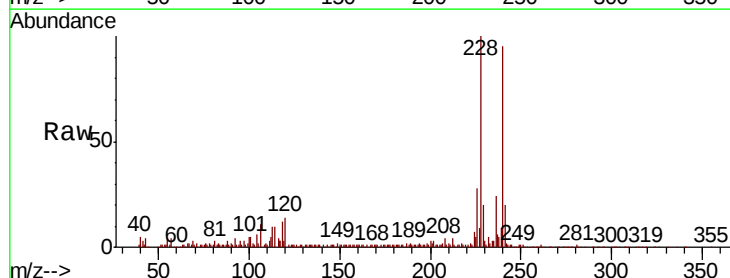
Tgt Ion:228 Resp: 145778

Ion Ratio Lower Upper

228 100

226 28.3 21.8 32.8

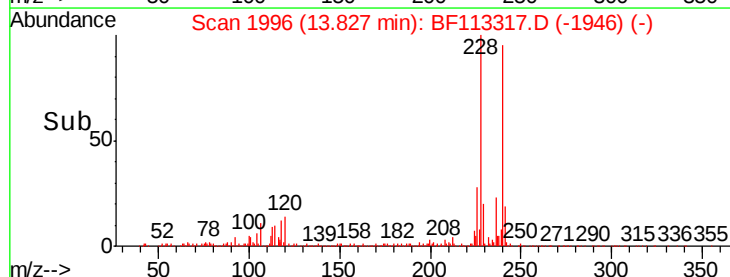
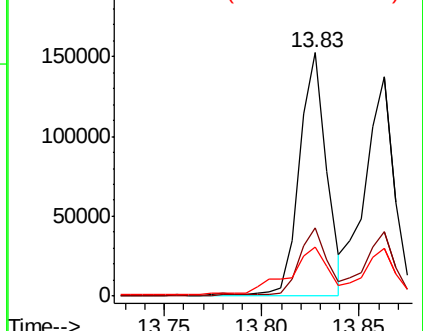
229 20.4 16.2 24.4

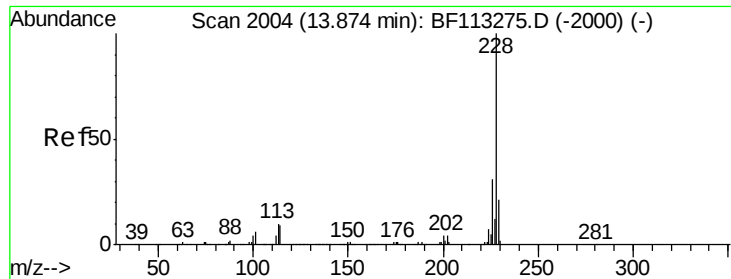


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 5.807 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

Instrument :

BNA_F

ClientSampleId :

OR-01-032519-B

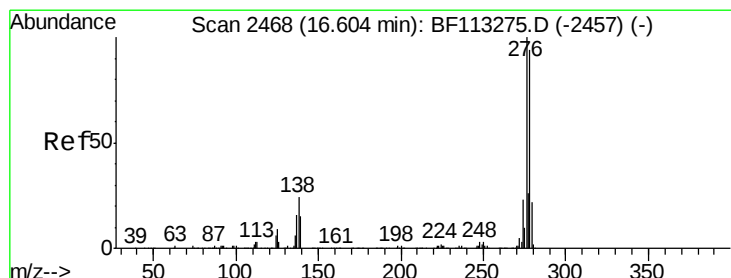
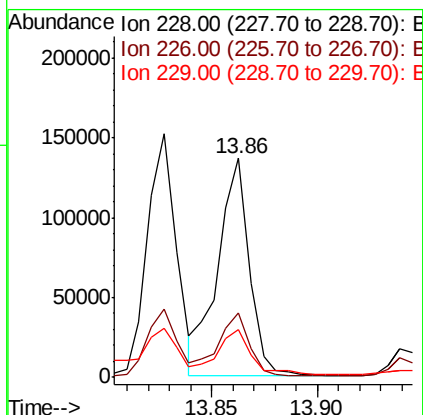
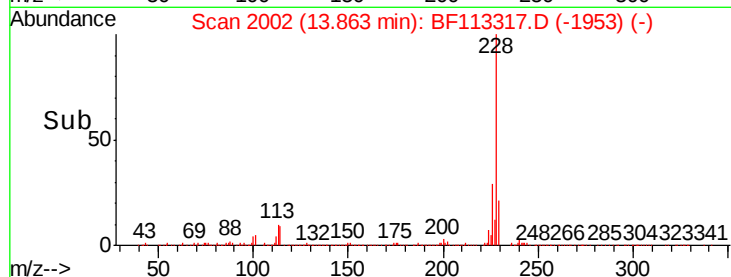
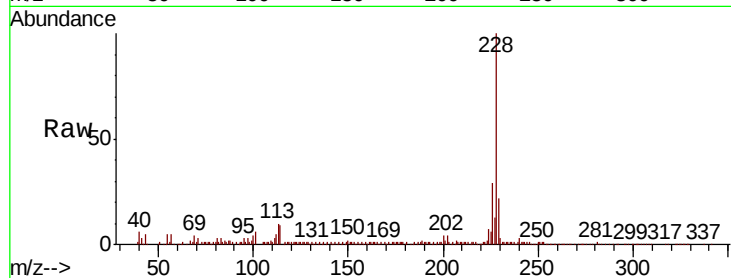
Tgt Ion:228 Resp: 141702

Ion Ratio Lower Upper

228 100

226 29.4 24.3 36.5

229 22.1 16.3 24.5



#86

Indeno(1,2,3-cd)pyrene

Concen: 3.089 ng

RT: 16.59 min Scan# 2465

Delta R.T. -0.02 min

Lab File: BF113317.D

Acq: 27 Mar 2019 3:45

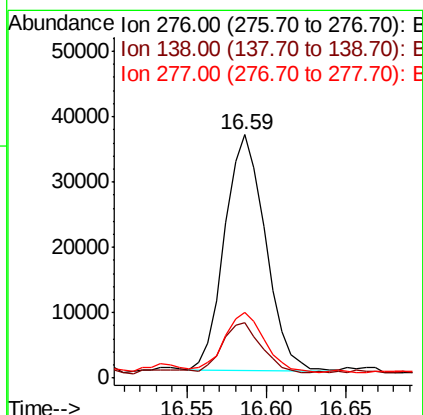
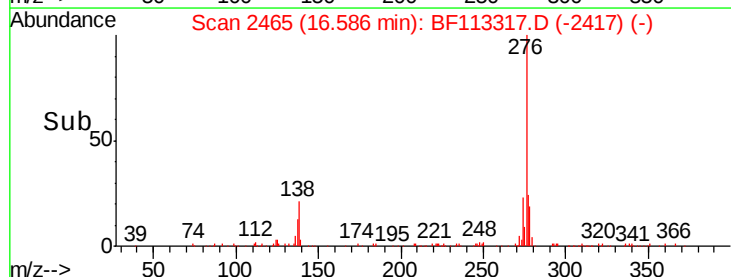
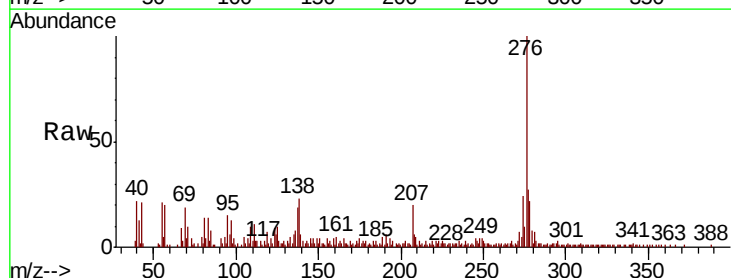
Tgt Ion:276 Resp: 64680

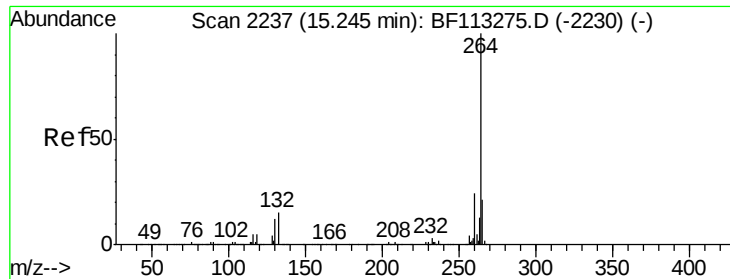
Ion Ratio Lower Upper

276 100

138 20.9 18.1 27.1

277 25.2 20.2 30.4



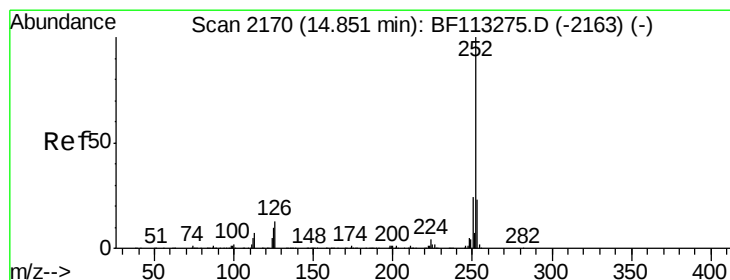
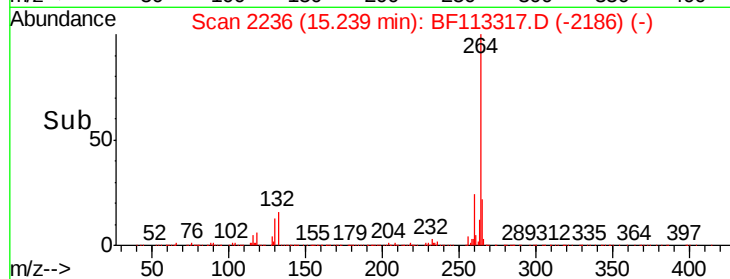
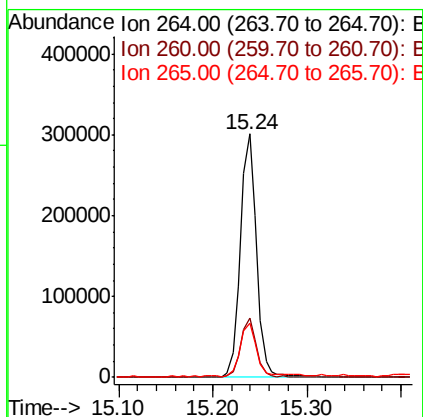
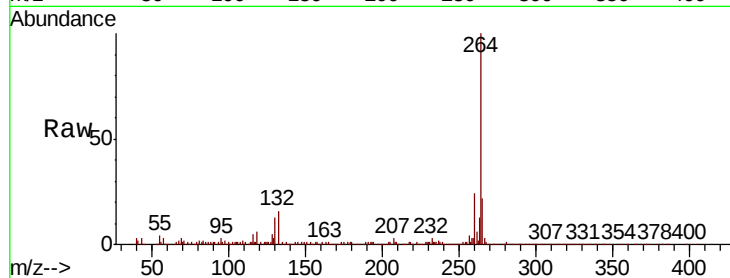


#87
Perylene-d12
Concen: 20.000 ng
RT: 15.24 min Scan# 2236
Delta R.T. -0.01 min
Lab File: BF113317.D
Acq: 27 Mar 2019 3:45

Instrument :
BNA_F
ClientSampleId :
OR-01-032519-B

Tgt Ion: 264 Resp: 355841

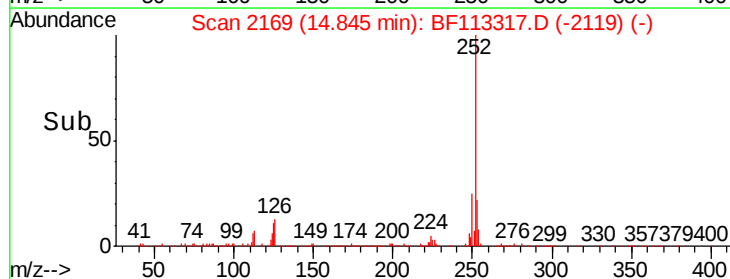
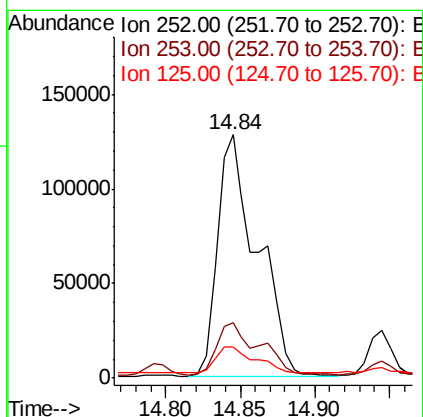
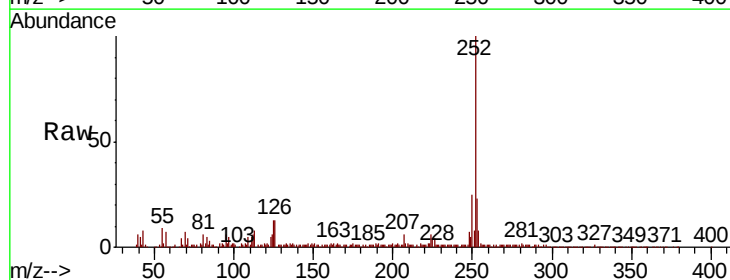
Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.1	28.7
265	22.0	17.1	25.7

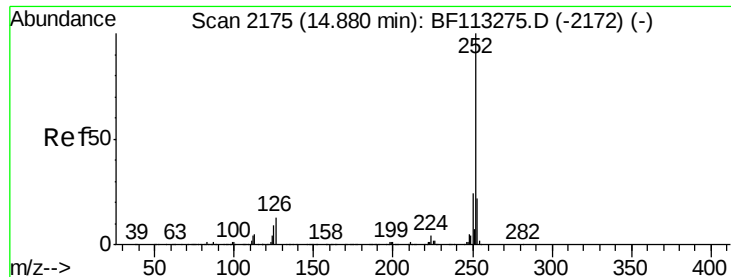


#88
Benzo(b)fluoranthene
Concen: 10.719 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BF113317.D
Acq: 27 Mar 2019 3:45

Tgt Ion: 252 Resp: 236946

Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	13.0	7.6	11.4

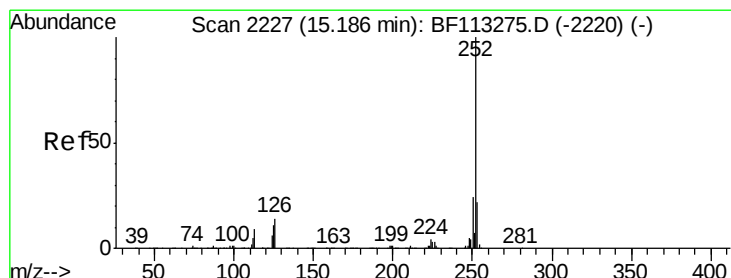
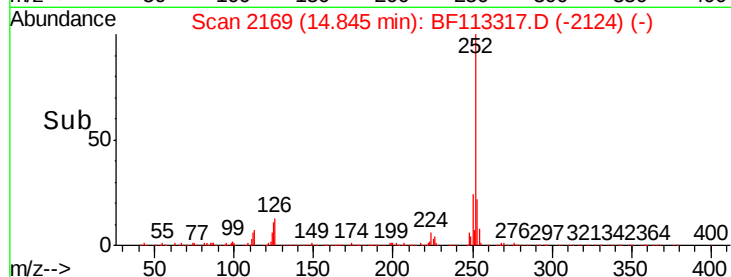
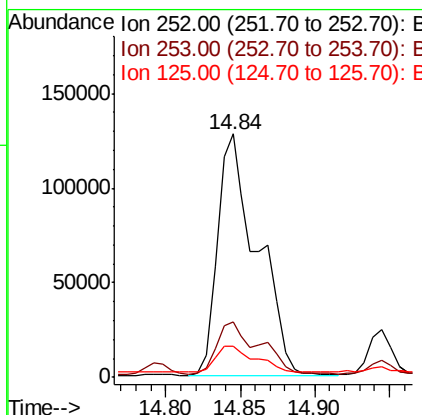
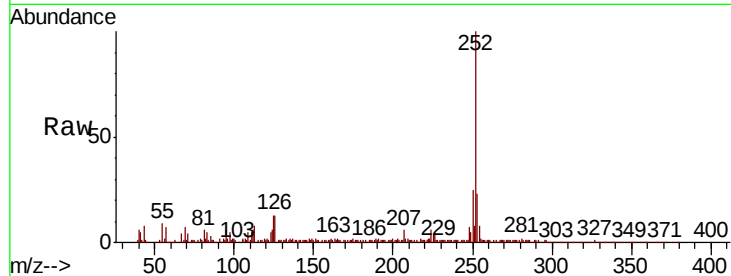




#89
Benzo(k)fluoranthene
Concen: 12.206 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.04 min
Lab File: BF113317.D
Acq: 27 Mar 2019 3:45

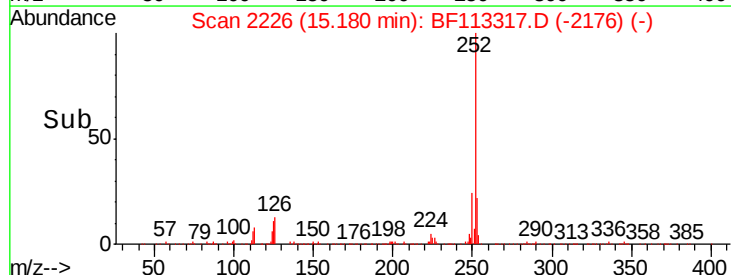
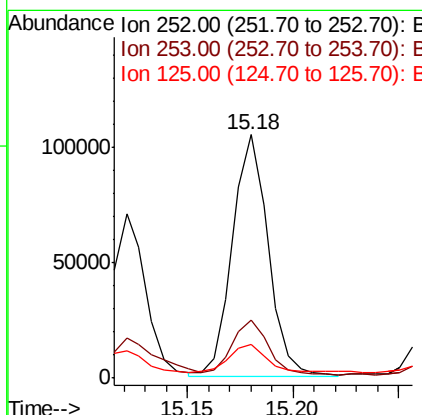
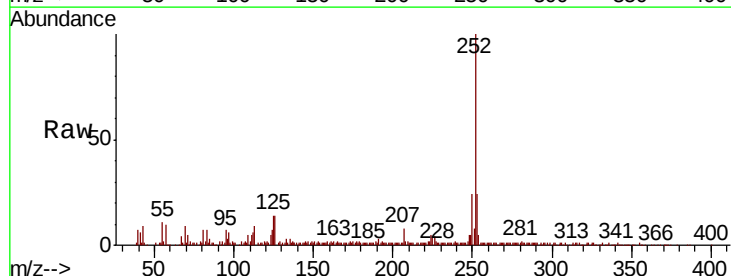
Instrument :
BNA_F
ClientSampleId :
OR-01-032519-B

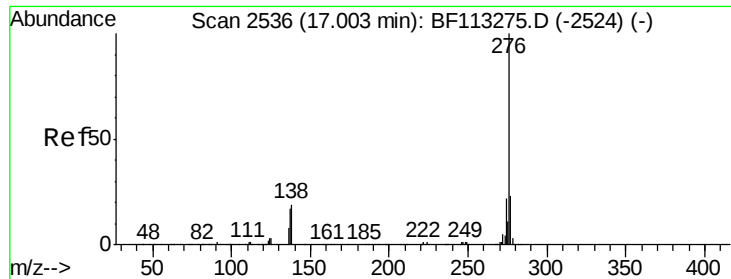
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	13.0	7.3	10.9



#90
Benzo(a)pyrene
Concen: 6.234 ng
RT: 15.18 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF113317.D
Acq: 27 Mar 2019 3:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	13.9	8.8	13.2

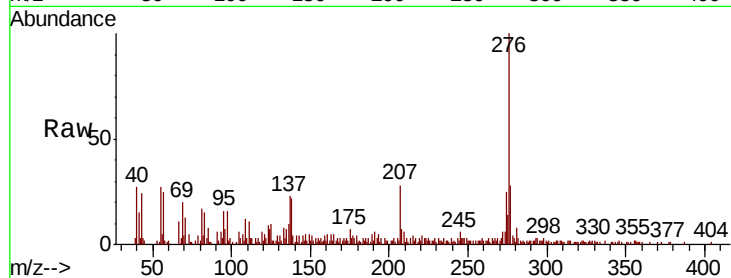




#92
 Benzo(g,h,i)perylene
 Concen: 3.658 ng
 RT: 16.99 min Scan# 2534
 Delta R.T. -0.01 min
 Lab File: BF113317.D
 Acq: 27 Mar 2019 3:45

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-032519-B

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.9	18.8	28.2
138	22.3	15.6	23.4



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

