

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020819\
 Data File : BF112473.D
 Acq On : 8 Feb 2019 21:25
 Operator : JU/SJ
 Sample : K1385-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 98-SB-01-2-4

Quant Time: Feb 09 04:59:24 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	153168	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	579525	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	267889	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	443830	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	291822	20.00	ng	0.00
87) Perylene-d12	15.47	264	299580	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.47	112	902427	125.14	ng	0.00
7) Phenol-d6	6.49	99	1141888	113.96	ng	0.00
23) Nitrobenzene-d5	7.40	82	740383	73.61	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	247229	79.29	ng	-0.02
45) 2-Fluorobiphenyl	9.19	172	1403366	74.09	ng	-0.02
79) Terphenyl-d14	12.94	244	1060509	68.45	ng	-0.01

Target Compounds

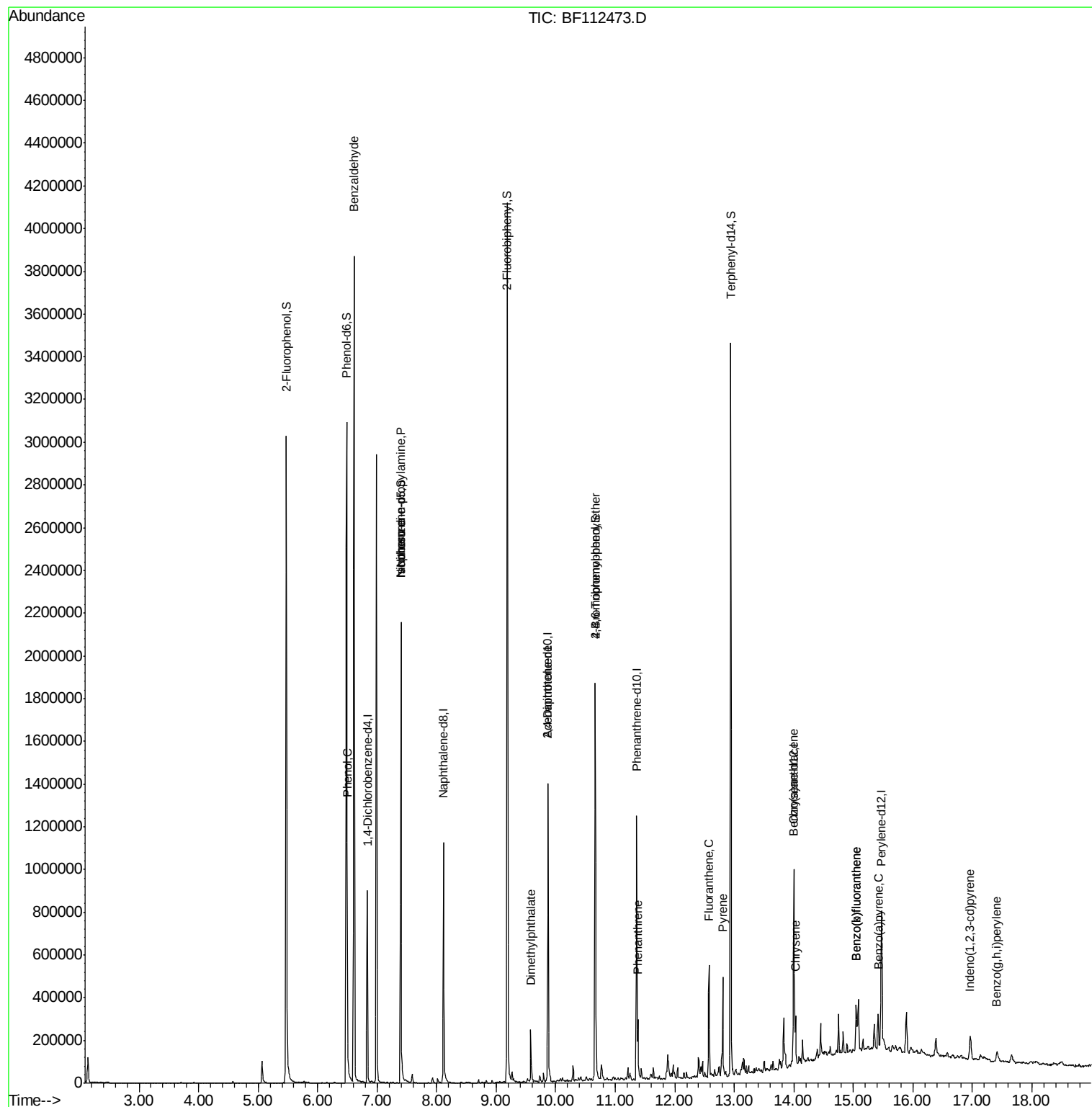
						Qvalue
9) Benzaldehyde	6.61	77	21954	4.192	ng	82
10) Phenol	6.50	94	23371	2.126	ng	90
19) n-Nitroso-di-n-propylamine	7.40	70	98045	14.190	ng	# 75
25) Isophorone	7.40	82	740378	46.923	ng	# 63
50) Dimethylphthalate	9.58	163	111121	5.339	ng	99
57) 2,4-Dinitrotoluene	9.87	165	33710	5.680	ng	# 32
67) 4-Bromophenyl-phenylether	10.66	248	15377	2.946	ng	# 1
71) Phenanthrene	11.38	178	98387	4.264	ng	97
75) Fluoranthene	12.57	202	201364	8.136	ng	96
78) Pyrene	12.80	202	176053	8.714	ng	95
81) Benzo(a)anthracene	13.99	228	91865	5.355	ng	99
83) Chrysene	14.03	228	81540	4.979	ng	97
86) Indeno(1,2,3-cd)pyrene	16.96	276	44488	3.429	ng	95
88) Benzo(b)fluoranthene	15.04	252	164696	9.193	ng	99
89) Benzo(k)fluoranthene	15.04	252	164696	9.597	ng	99
90) Benzo(a)pyrene	15.42	252	82178	5.098	ng	96
92) Benzo(a,h,i)perylene	17.41	276	43770	3.571	ng	98

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

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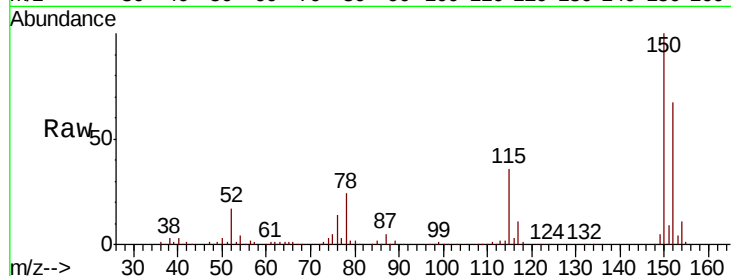


#1

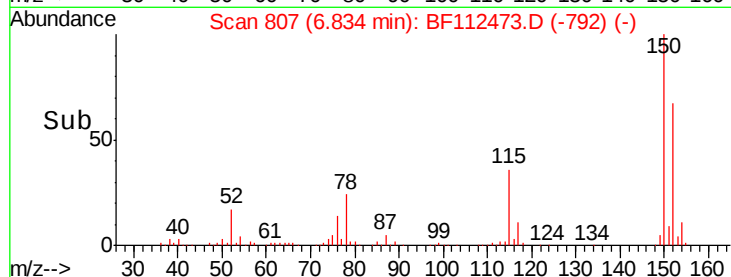
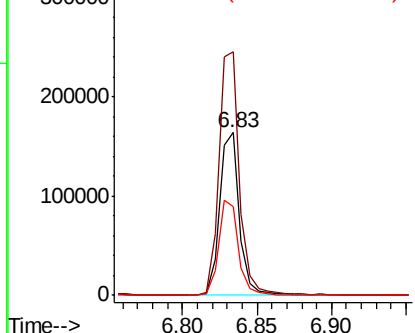
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.83 min Scan# 807
 Delta R.T. -0.01 min
 Lab File: BF112473.D
 Acq: 8 Feb 2019 21:25

Instrument :
 BNA_F
 ClientSampleId :
 98-SB-01-2-4

Tot Ion:152 Resp: 153168
 Ion Ratio Lower Upper
 152 100
 150 149.7 127.4 191.0
 115 54.5 45.5 68.3



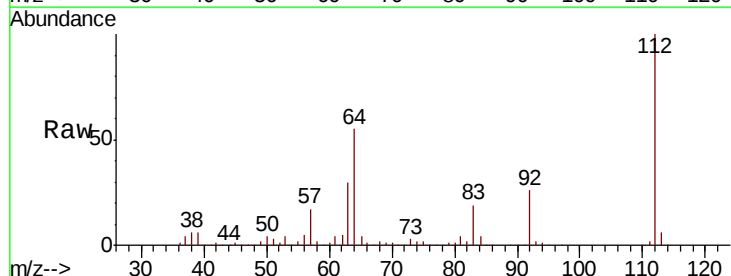
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



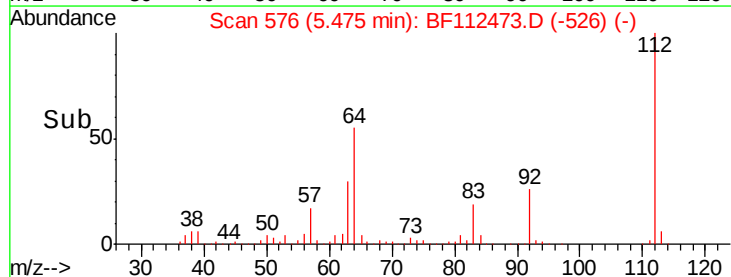
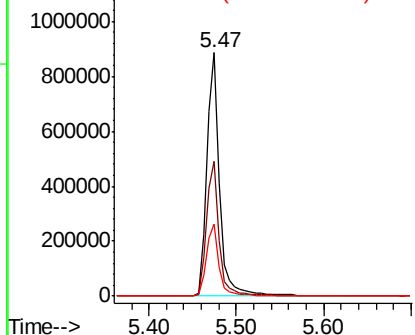
#5

2-Fluorophenol
 Concen: 125.145 ng
 RT: 5.47 min Scan# 576
 Delta R.T. -0.01 min
 Lab File: BF112473.D
 Acq: 8 Feb 2019 21:25

Tgt Ion:112 Resp: 902427
 Ion Ratio Lower Upper
 112 100
 64 55.3 45.7 68.5
 63 29.8 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: 113.959 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

Instrument :

BNA_F

ClientSampleId :

98-SB-01-2-4

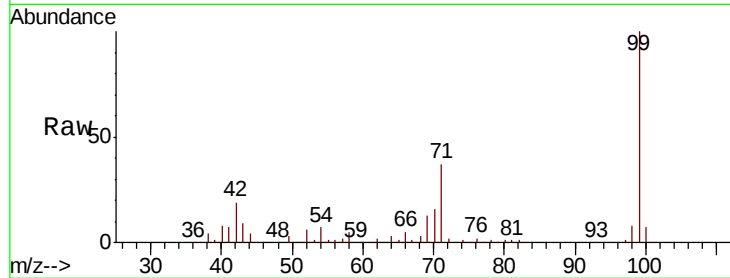
Tot Ion: 99 Resp: 1141888

Ion Ratio Lower Upper

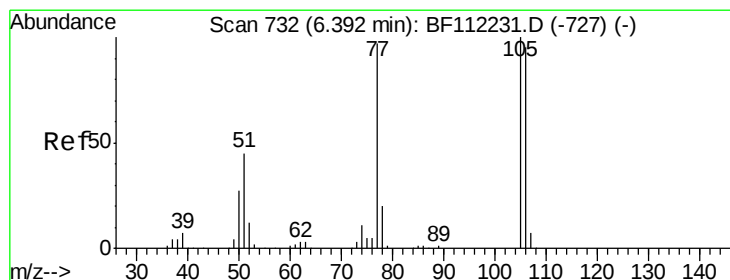
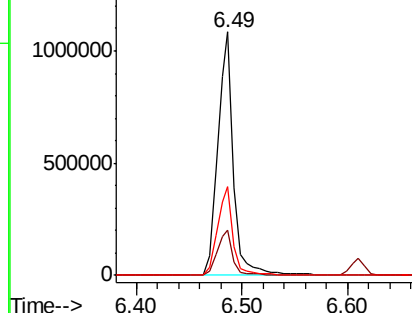
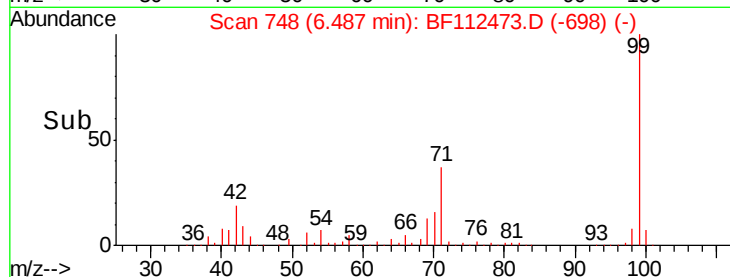
99 100

42 18.6 15.1 22.7

71 36.6 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



#9

Benzaldehyde

Concen: 4.192 ng

RT: 6.61 min Scan# 769

Delta R.T. 0.22 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

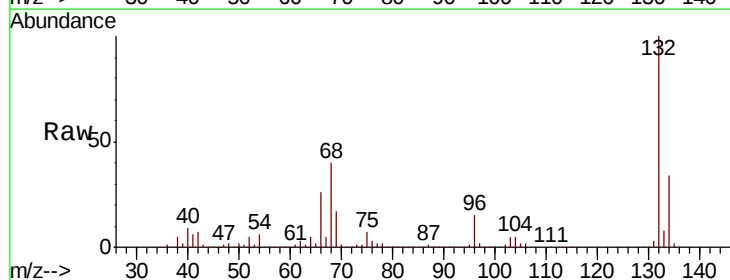
Tgt Ion: 77 Resp: 21954

Ion Ratio Lower Upper

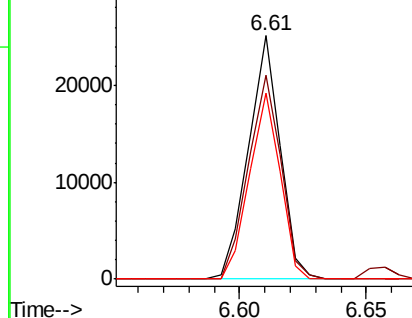
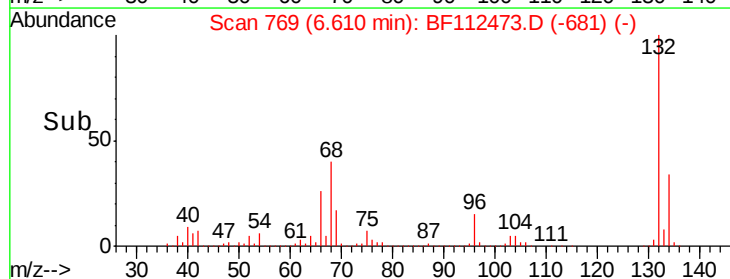
77 100

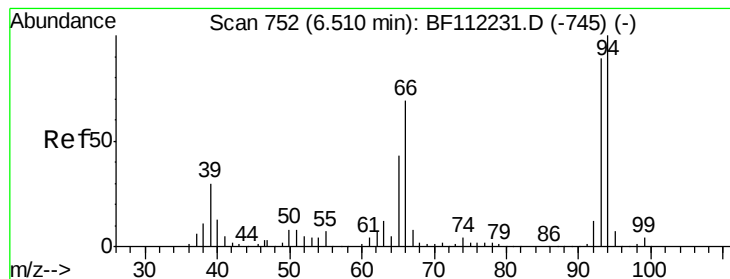
105 83.9 80.8 120.8

106 76.4 75.7 115.7



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 2.126 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

Instrument :

BNA_F

ClientSampleId :

98-SB-01-2-4

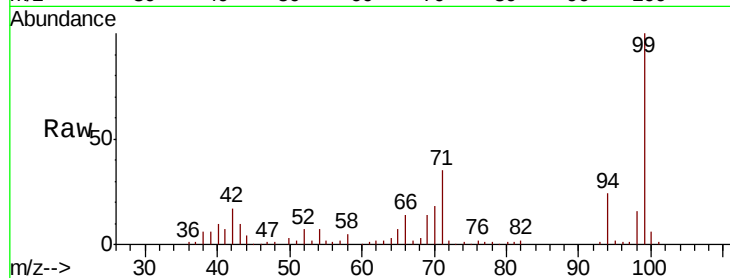
Tot Ion: 94 Resp: 23371

Ion Ratio Lower Upper

94 100

65 29.7 20.3 60.3

66 58.5 42.4 82.4

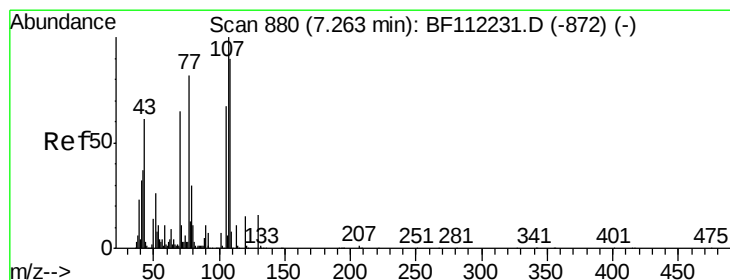
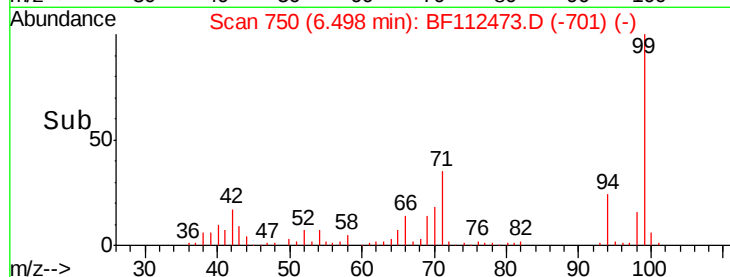
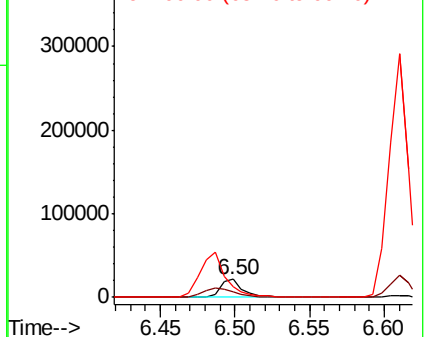


Abundance

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: 14.190 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.14 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

Tgt Ion: 70 Resp: 98045

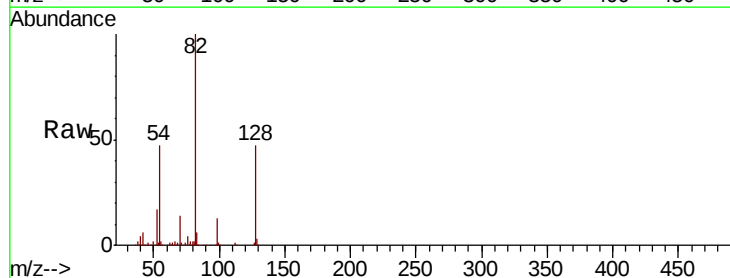
Ion Ratio Lower Upper

70 100

42 46.3 47.6 71.4#

101 0.0 7.9 11.9#

130 2.2 18.4 27.6#



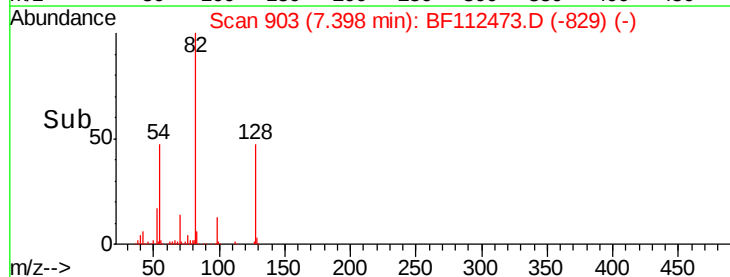
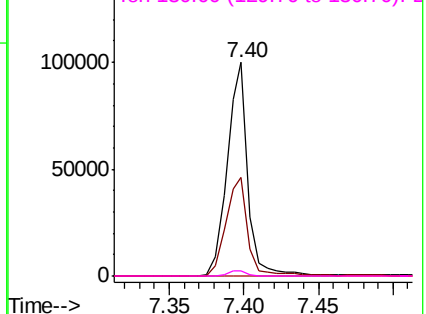
Abundance

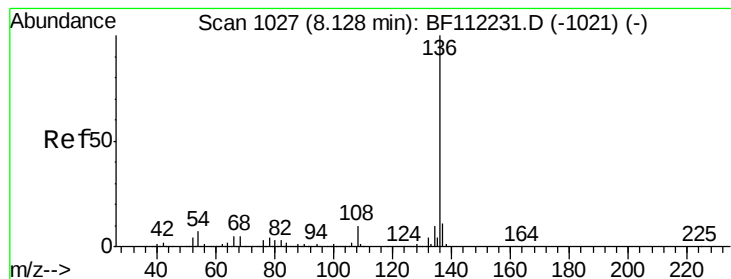
Ion 70.00 (69.70 to 70.70): BF1

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: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

Instrument :

BNA_F

ClientSampleId :

98-SB-01-2-4

Tot Ion:136 Resp: 579525

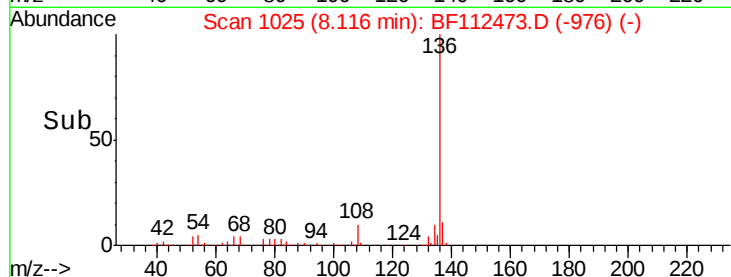
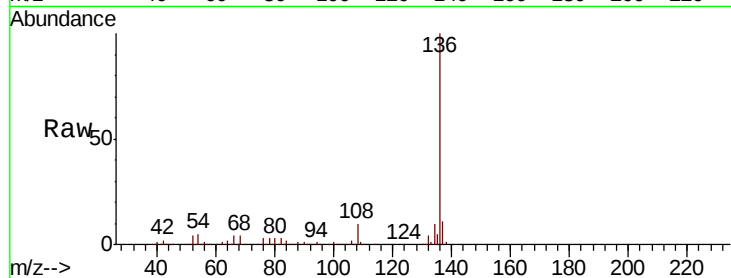
Ion Ratio Lower Upper

136 100

137 10.9 9.1 13.7

54 5.4 5.9 8.9#

68 4.4 5.1 7.7#

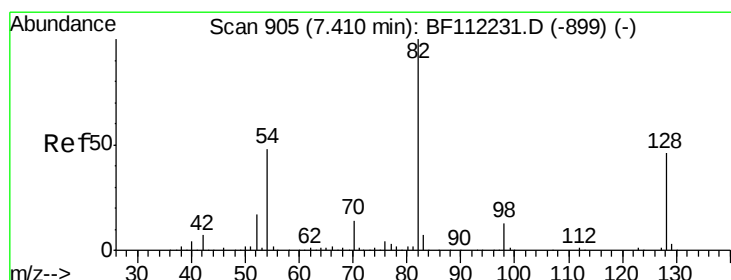
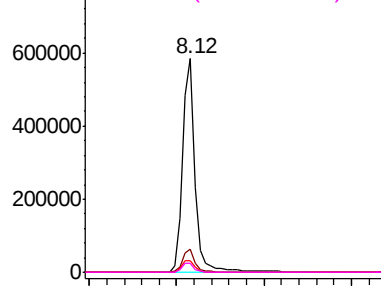


Abundance Ion 136.00 (135.70 to 136.70): E

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: 73.613 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

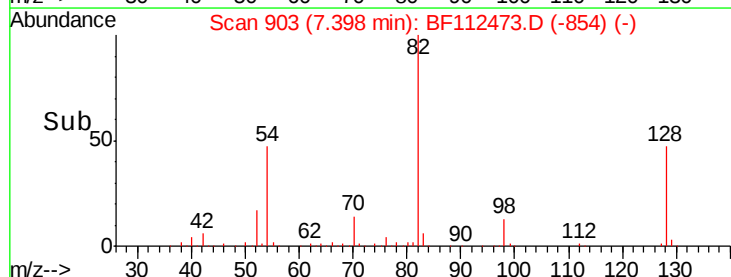
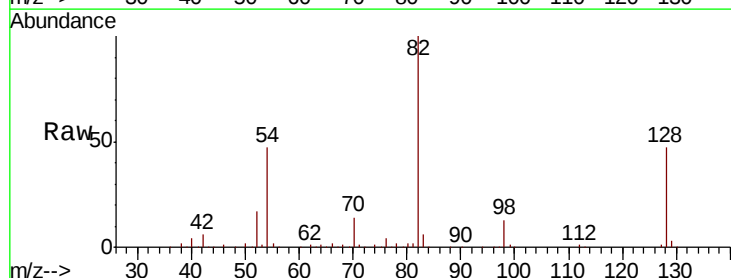
Tgt Ion: 82 Resp: 740383

Ion Ratio Lower Upper

82 100

128 47.0 37.8 56.8

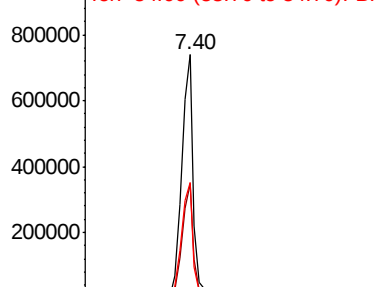
54 47.3 39.7 59.5

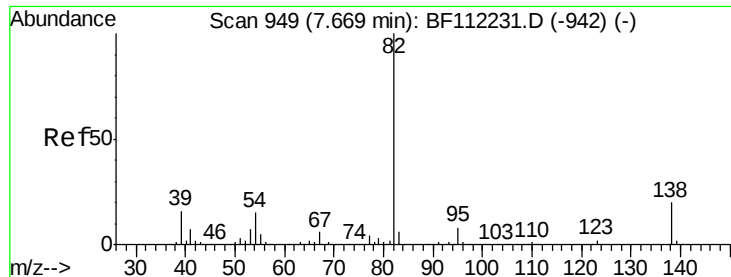


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 46.923 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.27 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

Instrument :

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ClientSampleId :

98-SB-01-2-4

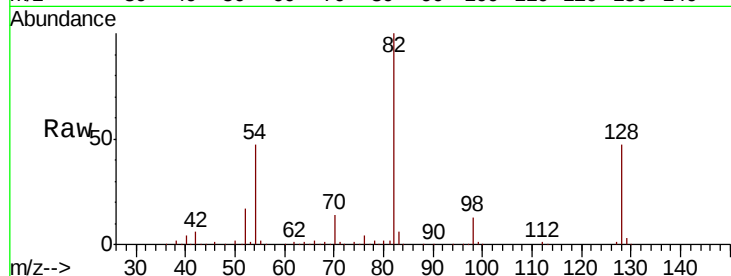
Tot Ion: 82 Resp: 740378

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

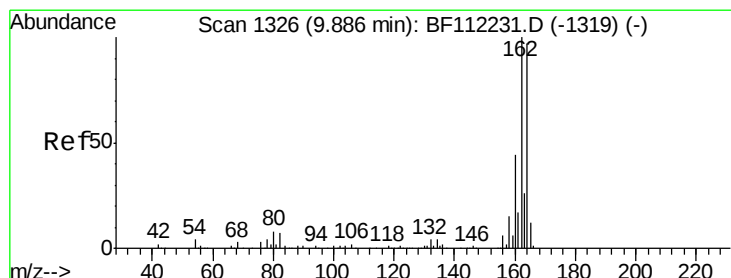
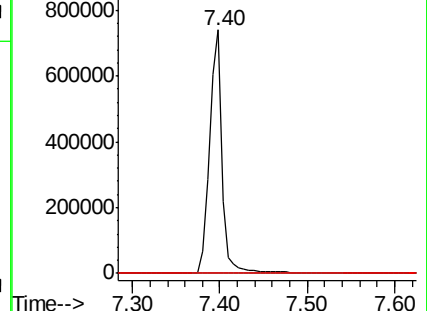
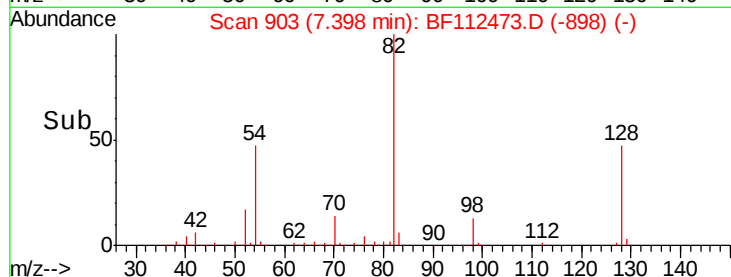
138 0.0 15.4 23.0#



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: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

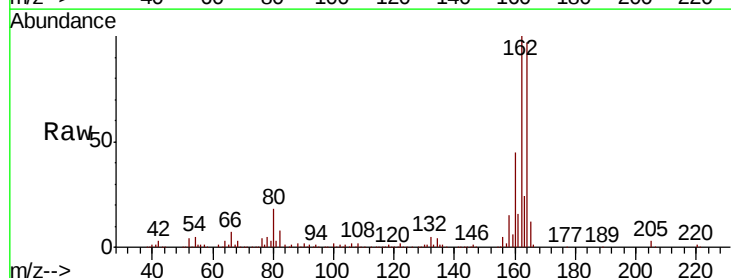
Tgt Ion: 164 Resp: 267889

Ion Ratio Lower Upper

164 100

162 103.2 82.2 123.4

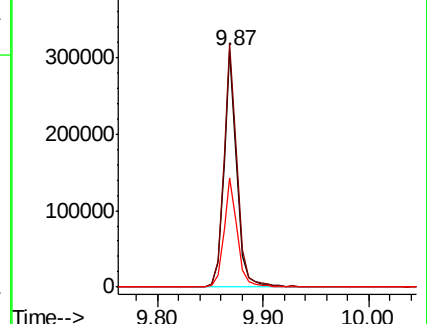
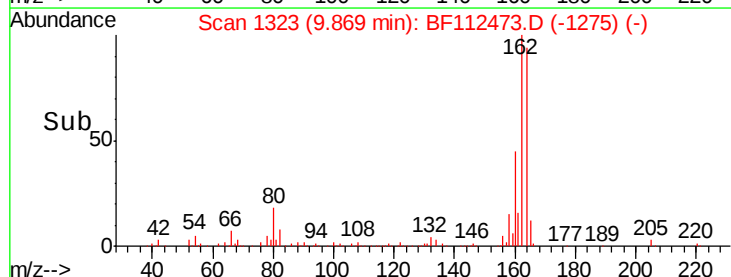
160 46.2 36.2 54.4

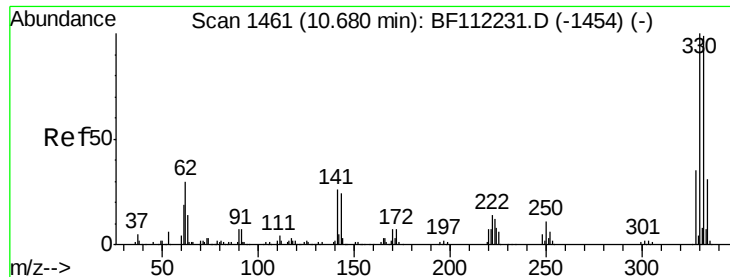


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 79.287 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.02 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

Instrument :

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ClientSampleId :

98-SB-01-2-4

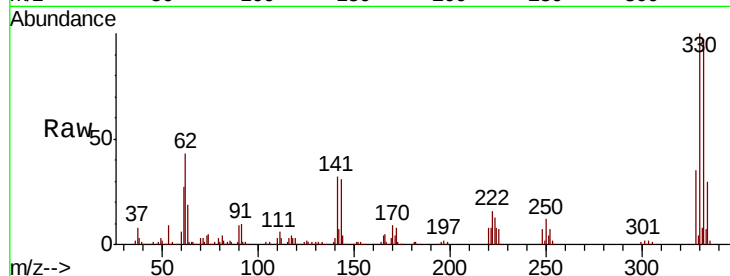
Tot Ion:330 Resp: 247229

Ion Ratio Lower Upper

330 100

332 95.6 76.6 114.8

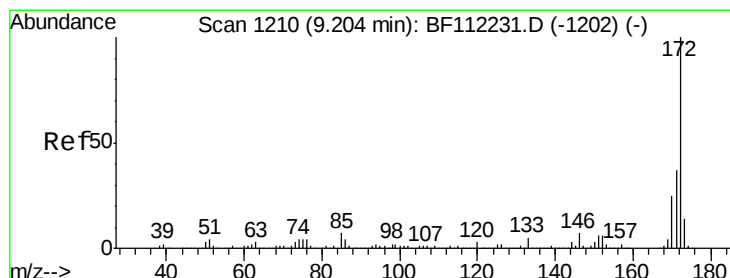
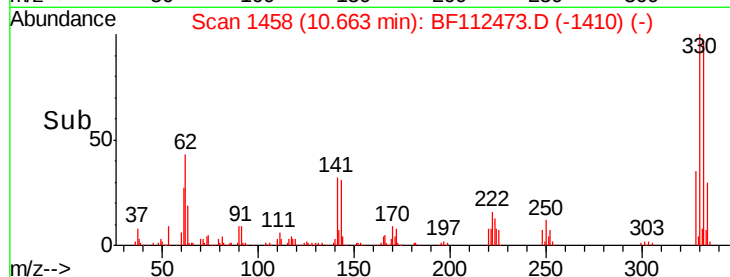
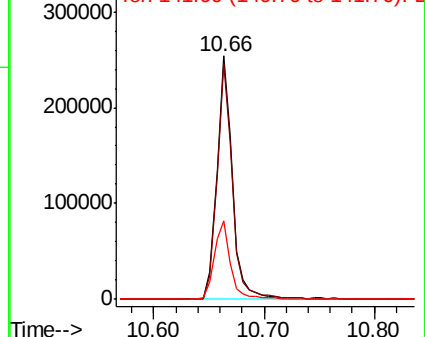
141 33.3 24.3 36.5



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: 74.092 ng

RT: 9.19 min Scan# 1207

Delta R.T. -0.02 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

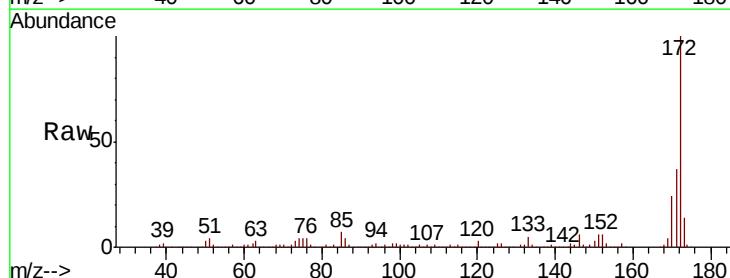
Tgt Ion:172 Resp: 1403366

Ion Ratio Lower Upper

172 100

171 36.8 30.5 45.7

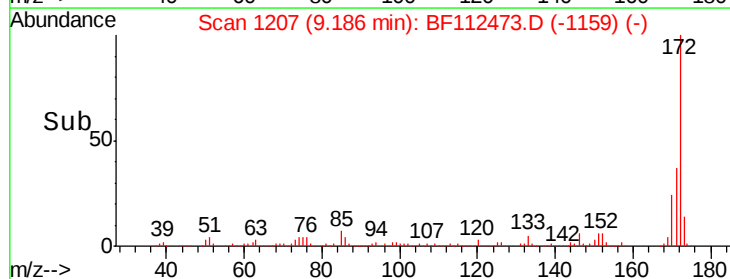
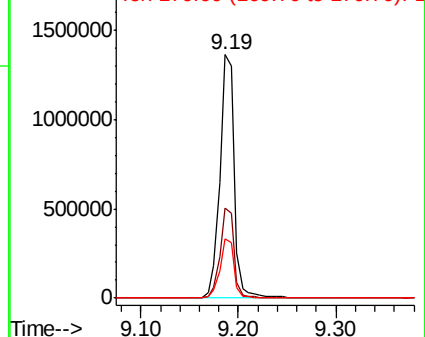
170 24.3 20.2 30.4

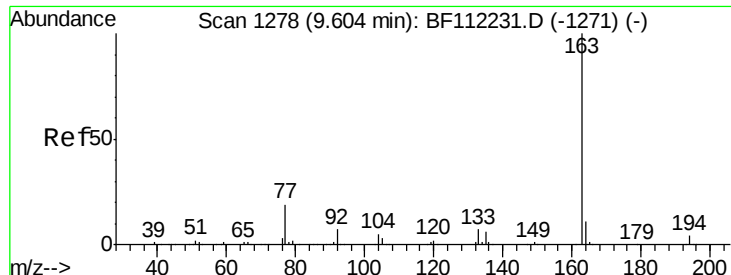


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

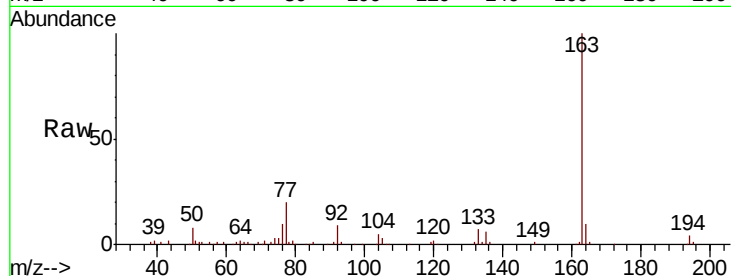




#50
Dimethylphthalate
Concen: 5.339 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.02 min
Lab File: BF112473.D
Acq: 8 Feb 2019 21:25

Instrument :
BNA_F
ClientSampleId :
98-SB-01-2-4

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.3	8.5	12.7

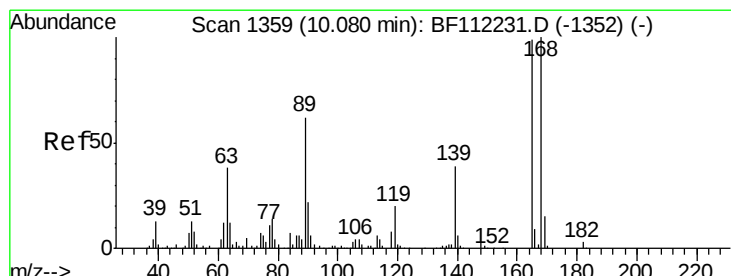
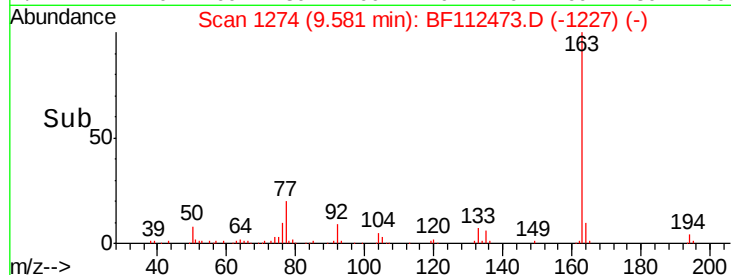
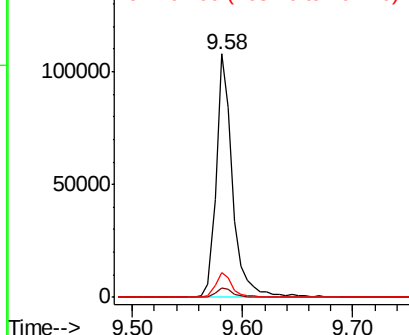


Abundance

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



#57
2,4-Dinitrotoluene
Concen: 5.680 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.21 min
Lab File: BF112473.D
Acq: 8 Feb 2019 21:25

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	27.9	41.9#
89	1.8	47.9	71.9#
182	0.0	2.2	3.4#

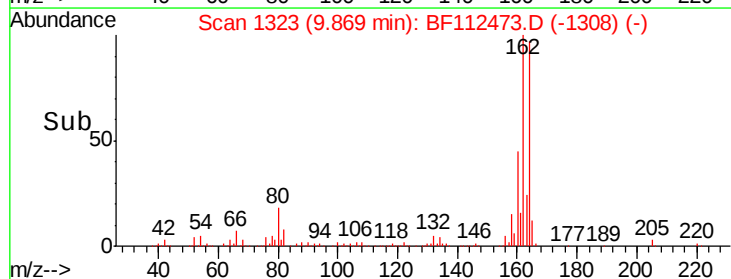
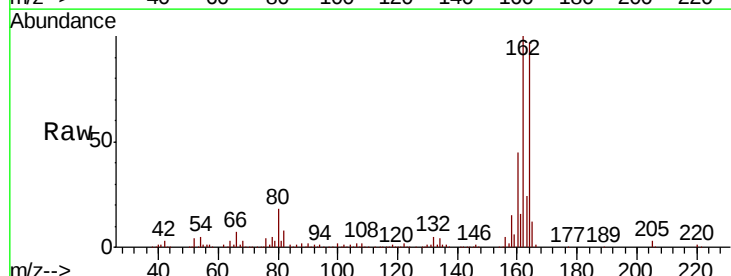
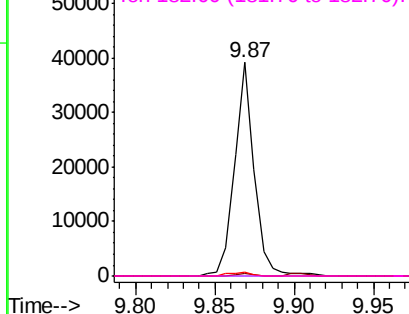
Abundance

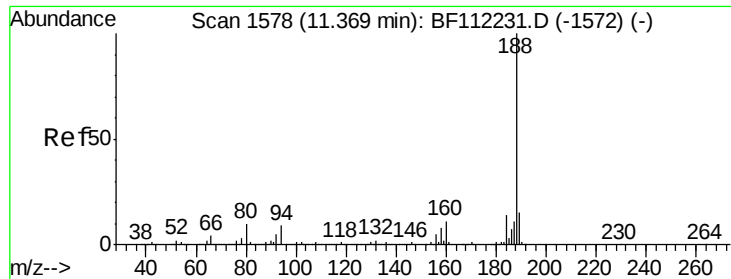
Ion 165.00 (164.70 to 165.70): E

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: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

Instrument :

BNA_F

ClientSampleId :

98-SB-01-2-4

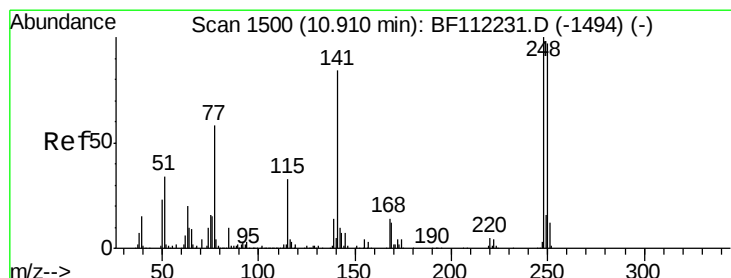
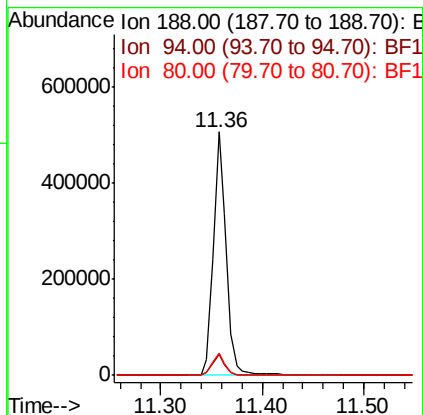
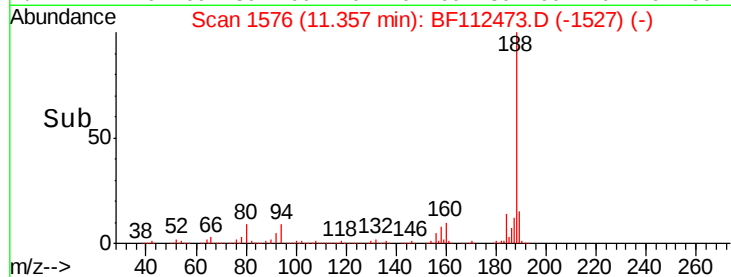
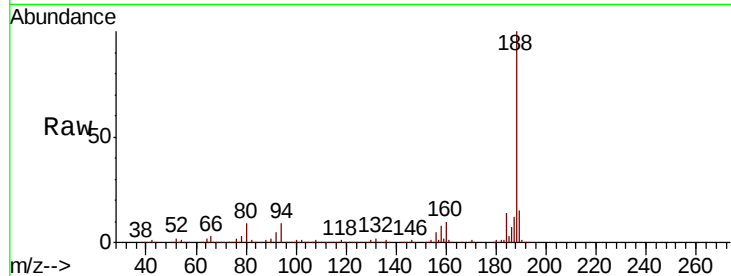
Tot Ion:188 Resp: 443830

Ion Ratio Lower Upper

188 100

94 8.8 8.2 12.2

80 9.2 8.9 13.3



#67

4-Bromophenyl-phenylether

Concen: 2.946 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.25 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

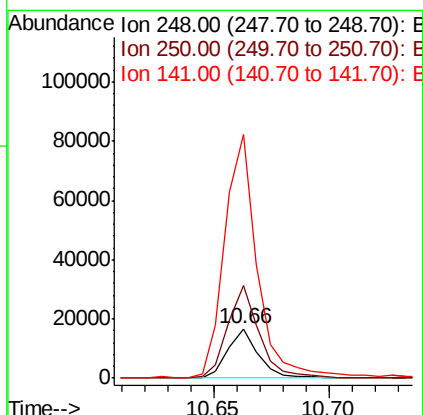
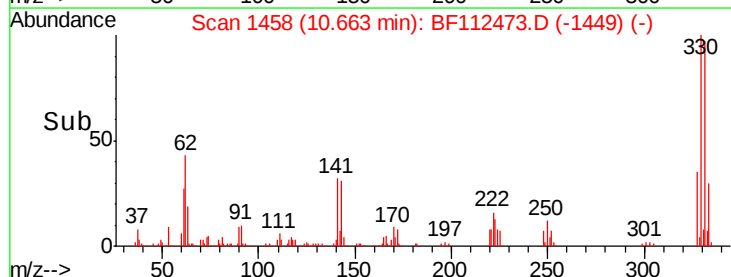
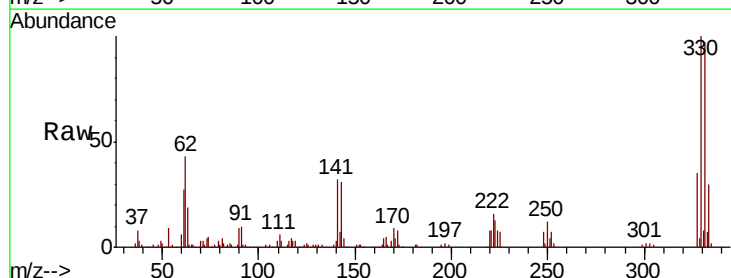
Tgt Ion:248 Resp: 15377

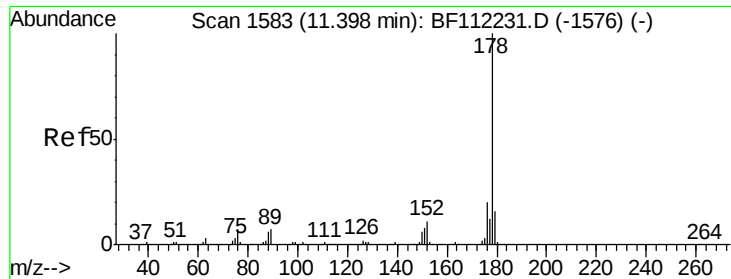
Ion Ratio Lower Upper

248 100

250 188.3 79.7 119.5#

141 495.5 60.3 90.5#

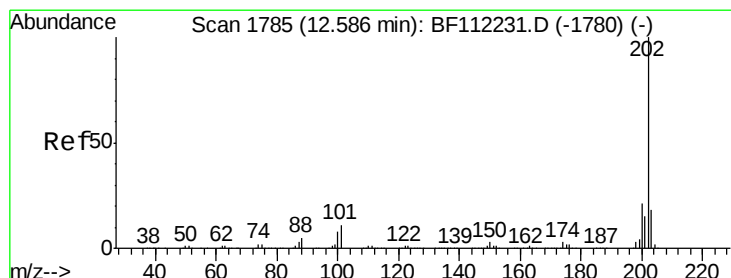
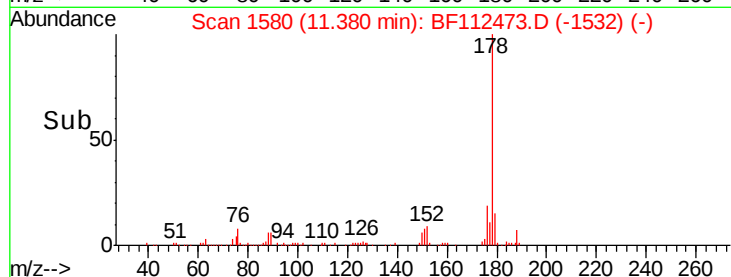
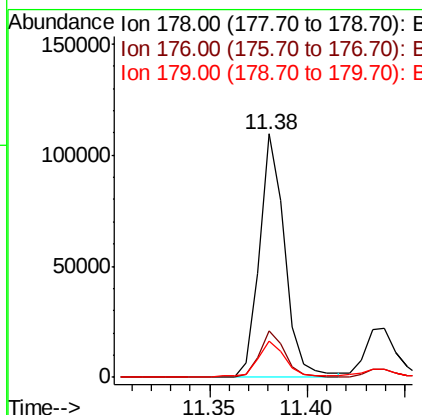
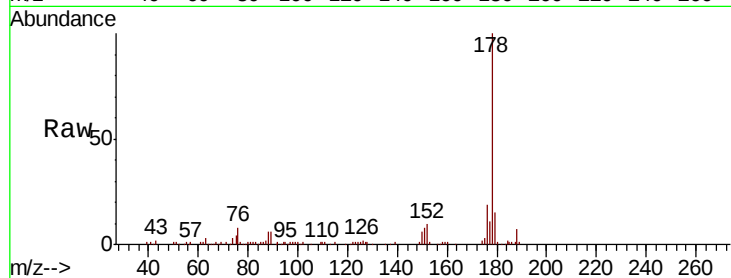




#71
Phenanthrene
Concen: 4.264 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.02 min
Lab File: BF112473.D
Acq: 8 Feb 2019 21:25

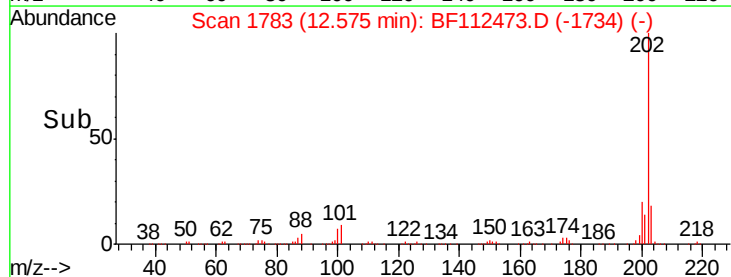
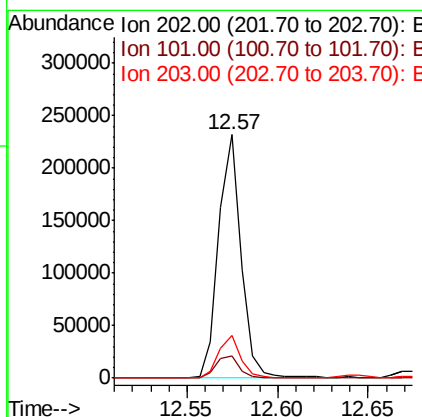
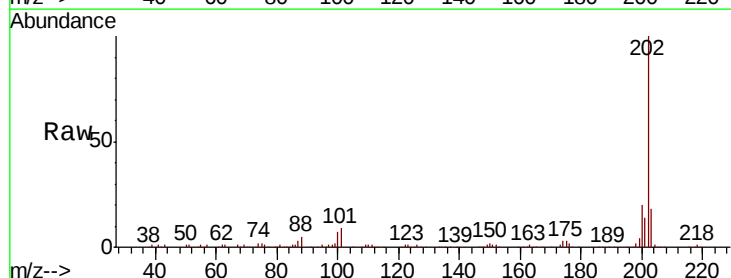
Instrument :
BNA_F
ClientSampleId :
98-SB-01-2-4

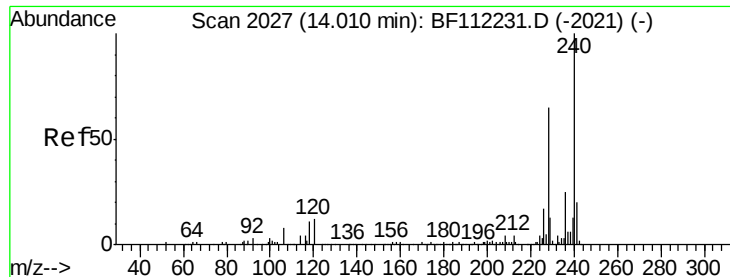
Tot Ion:178 Resp: 98387
Ion Ratio Lower Upper
178 100
176 19.0 16.3 24.5
179 15.1 13.0 19.4



#75
Fluoranthene
Concen: 8.136 ng
RT: 12.57 min Scan# 1783
Delta R.T. -0.01 min
Lab File: BF112473.D
Acq: 8 Feb 2019 21:25

Tgt Ion:202 Resp: 201364
Ion Ratio Lower Upper
202 100
101 9.0 0.0 31.8
203 17.7 0.0 38.4

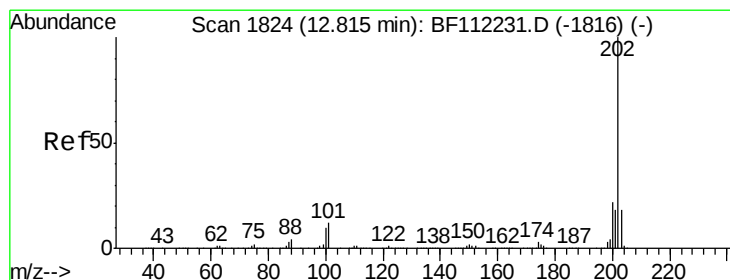
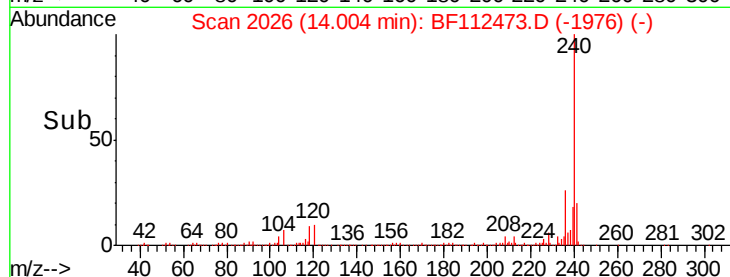
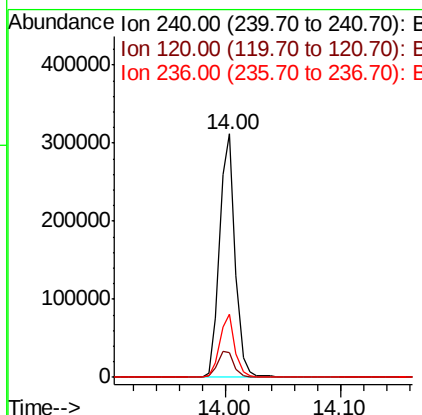
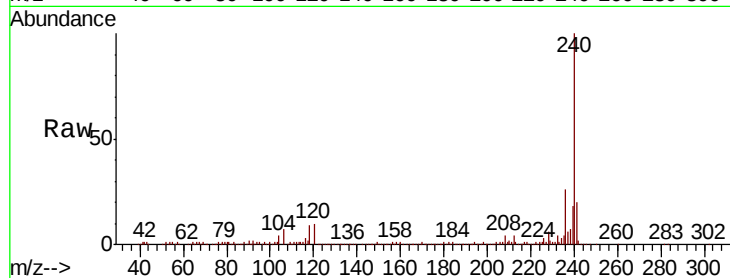




#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.00 min Scan# 2026
 Delta R.T. -0.01 min
 Lab File: BF112473.D
 Acq: 8 Feb 2019 21:25

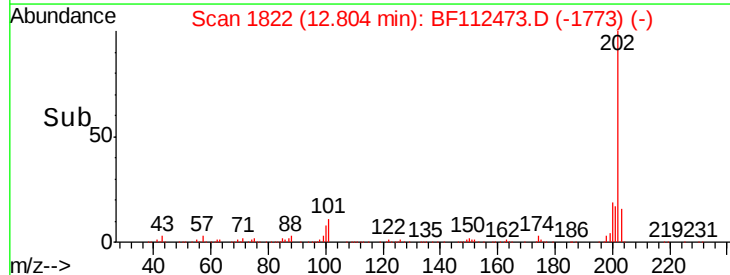
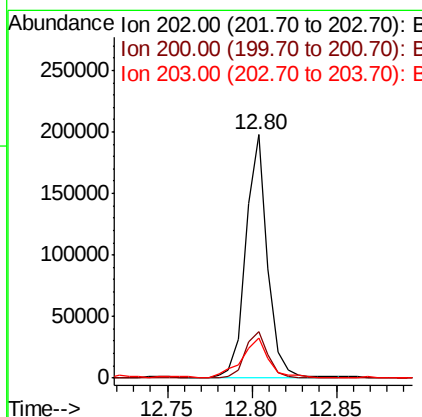
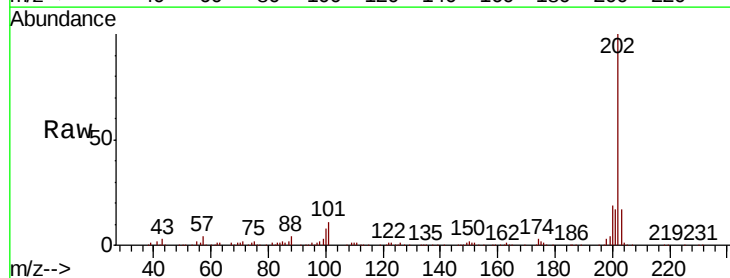
Instrument :
 BNA_F
 ClientSampleId :
 98-SB-01-2-4

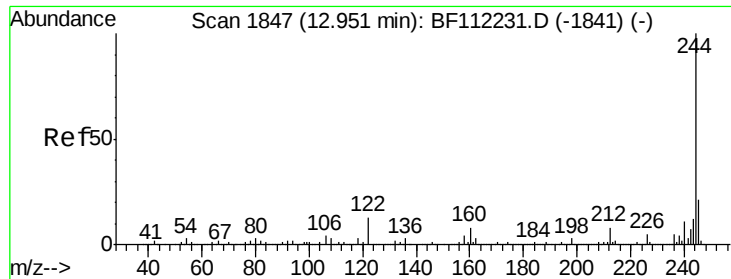
Tot Ion:240 Resp: 291822
 Ion Ratio Lower Upper
 240 100
 120 10.1 9.0 13.6
 236 26.0 20.7 31.1



#78
 Pyrene
 Concen: 8.714 ng
 RT: 12.80 min Scan# 1822
 Delta R.T. -0.01 min
 Lab File: BF112473.D
 Acq: 8 Feb 2019 21:25

Tgt Ion:202 Resp: 176053
 Ion Ratio Lower Upper
 202 100
 200 19.2 17.7 26.5
 203 16.5 14.6 22.0

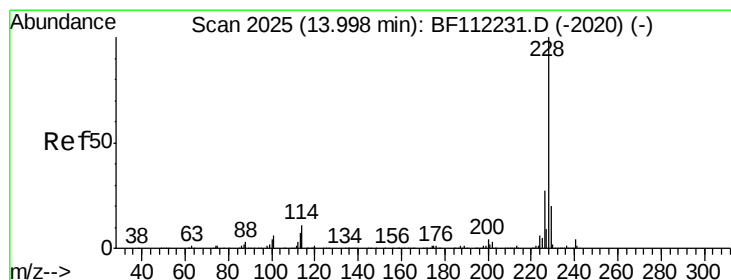
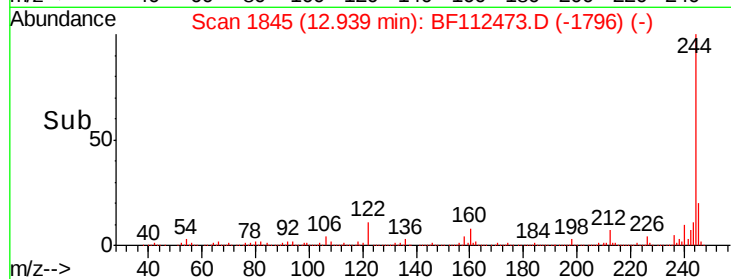
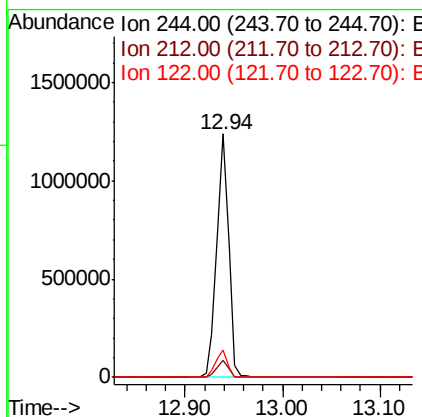
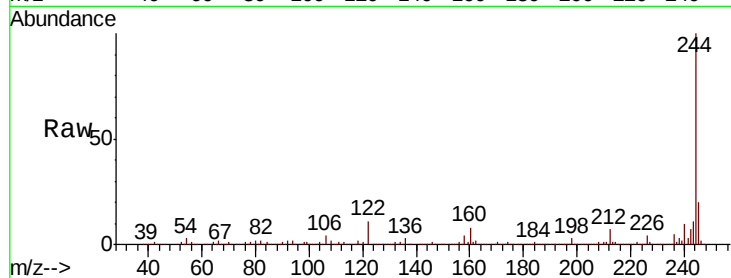




#79
 Terphenyl-d14
 Concen: 68.446 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.01 min
 Lab File: BF112473.D
 Acq: 8 Feb 2019 21:25

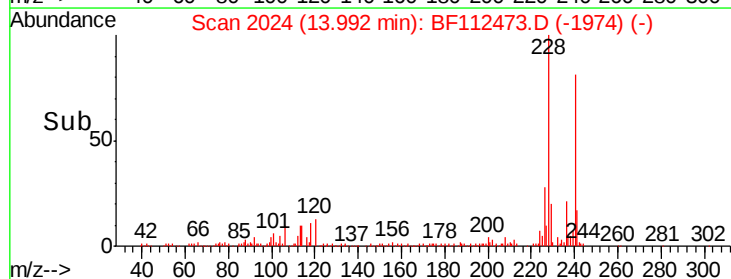
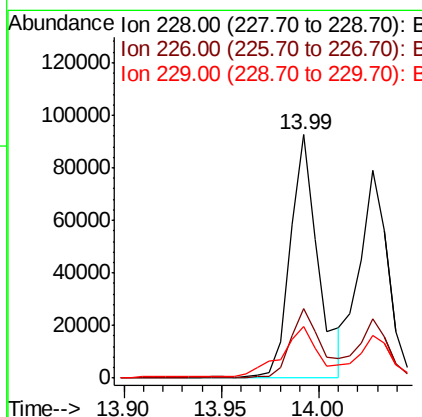
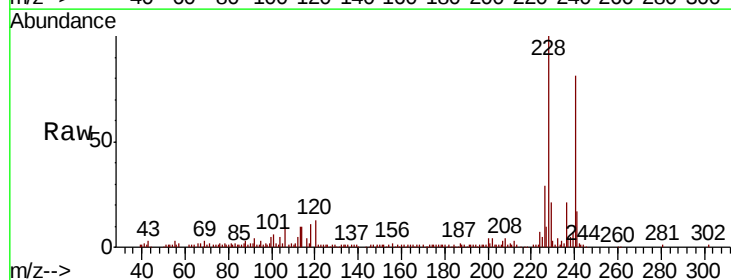
Instrument :
 BNA_F
 ClientSampleId :
 98-SB-01-2-4

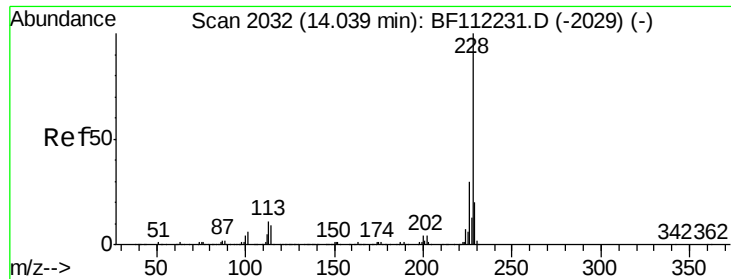
Tot Ion:244 Resp: 1060509
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.9 8.9
 122 11.3 9.8 14.6



#81
 Benzo(a)anthracene
 Concen: 5.355 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. -0.01 min
 Lab File: BF112473.D
 Acq: 8 Feb 2019 21:25

Tgt Ion:228 Resp: 91865
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.6 34.0
 229 21.0 16.5 24.7





#83

Chrysene

Concen: 4.979 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

Instrument :

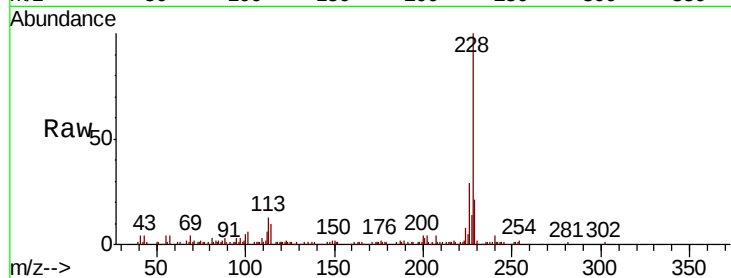
BNA_F

ClientSampleId :

98-SB-01-2-4

Tot Ion:228 Resp: 81540

Ion	Ratio	Lower	Upper
228	100		
226	28.6	25.0	37.6
229	20.7	16.6	24.8

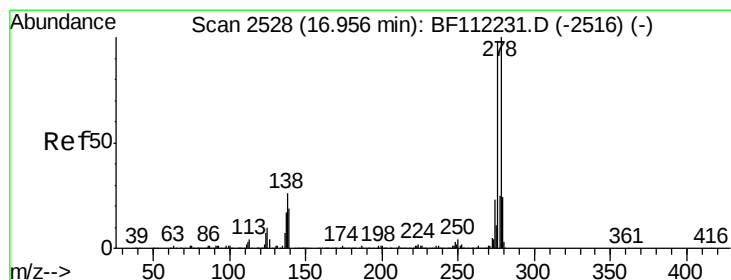
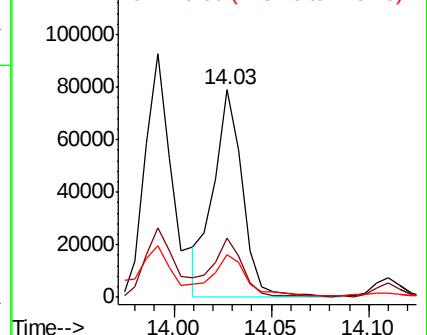
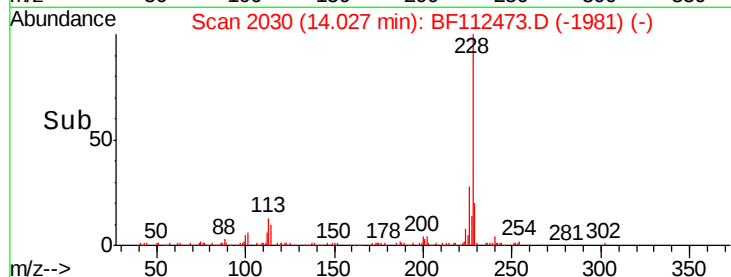


Abundance

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: 3.429 ng

RT: 16.96 min Scan# 2529

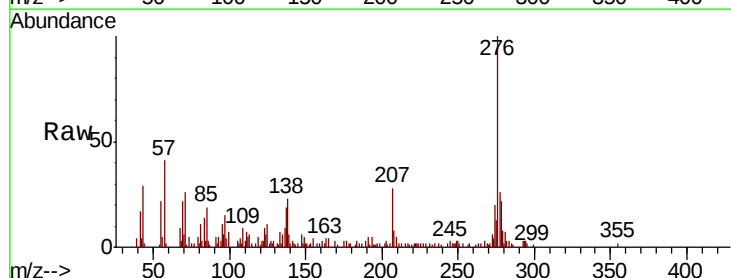
Delta R.T. 0.01 min

Lab File: BF112473.D

Acq: 8 Feb 2019 21:25

Tgt Ion:276 Resp: 44488

Ion	Ratio	Lower	Upper
276	100		
138	23.2	22.6	34.0
277	25.1	20.3	30.5

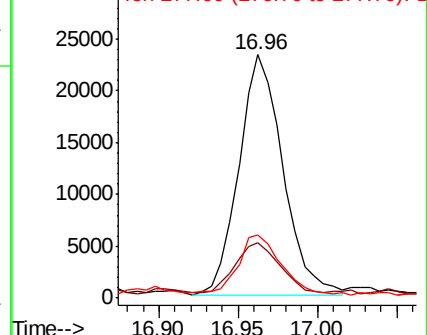
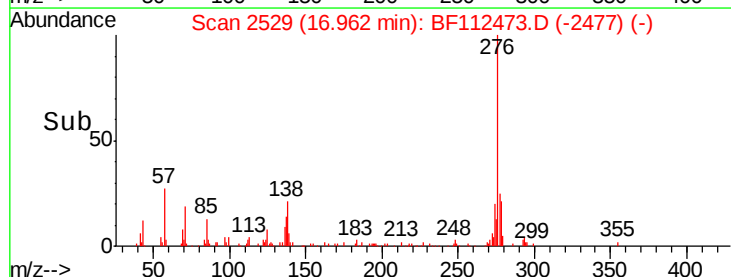


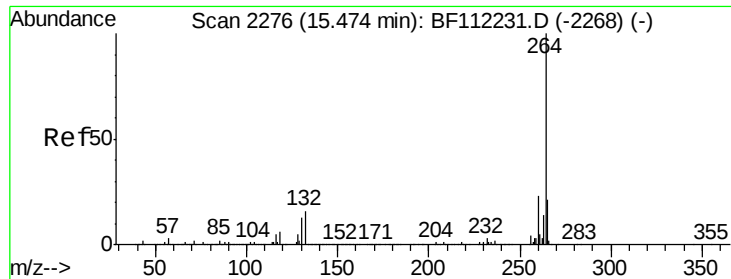
Abundance

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

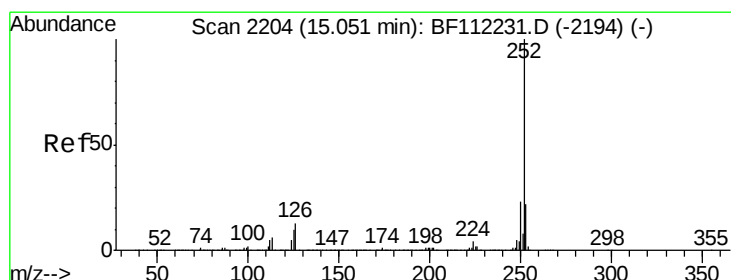
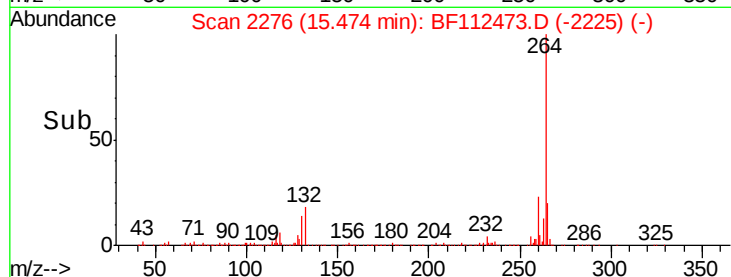
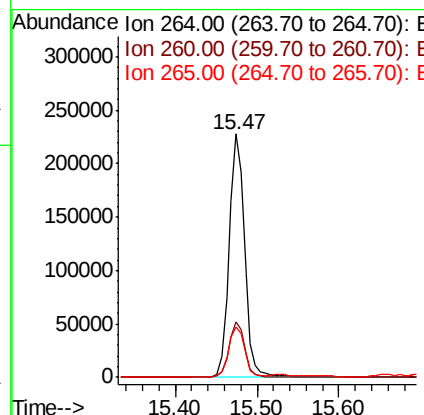
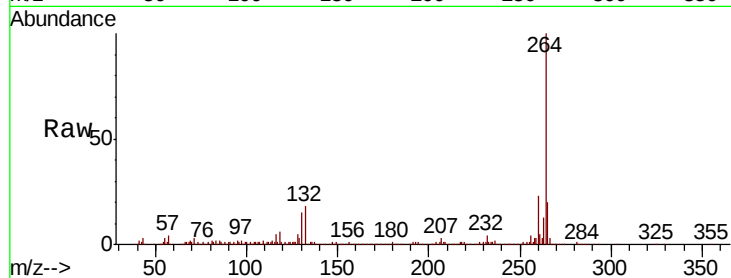




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.00 min
Lab File: BF112473.D
Acq: 8 Feb 2019 21:25

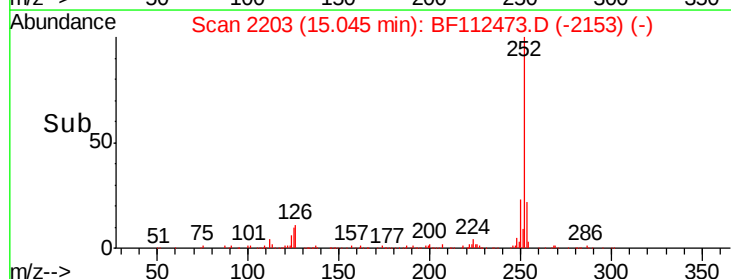
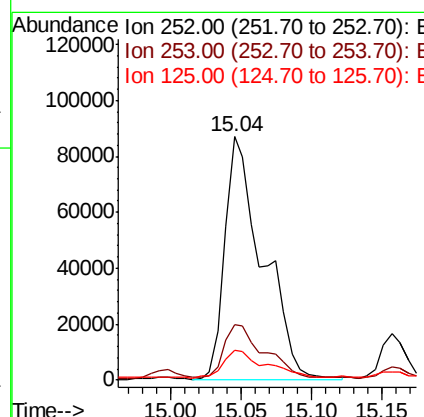
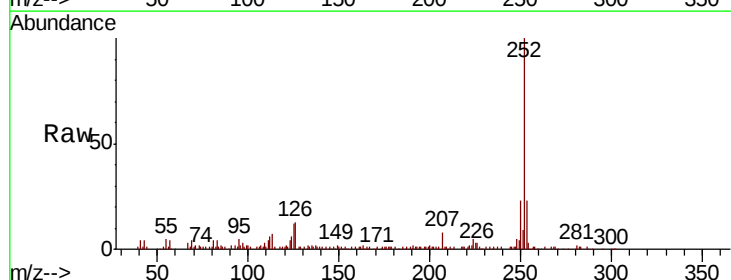
Instrument :
BNA_F
ClientSampleId :
98-SB-01-2-4

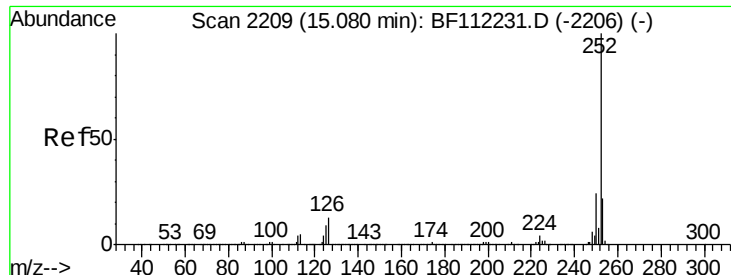
Tot Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.2	27.2
265	20.5	17.0	25.4



#88
Benzo(b)fluoranthene
Concen: 9.193 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF112473.D
Acq: 8 Feb 2019 21:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	12.4	8.7	13.1

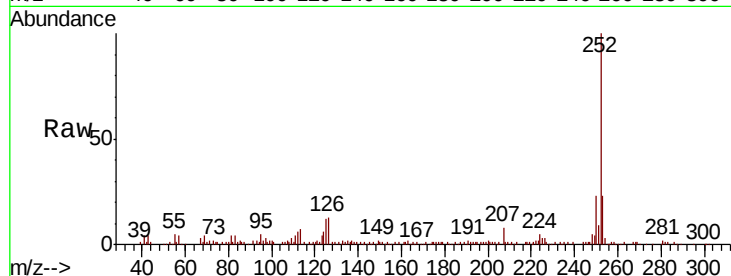




#89
Benzo(k)fluoranthene
Concen: 9.597 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.04 min
Lab File: BF112473.D
Acq: 8 Feb 2019 21:25

Instrument :
BNA_F
ClientSampleId :
98-SB-01-2-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	12.4	9.1	13.7

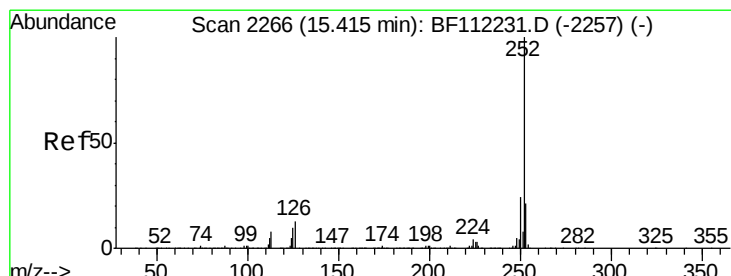
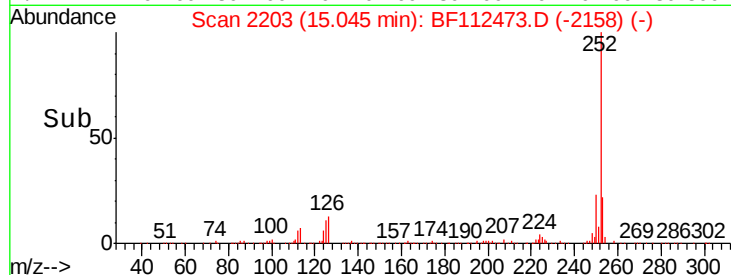
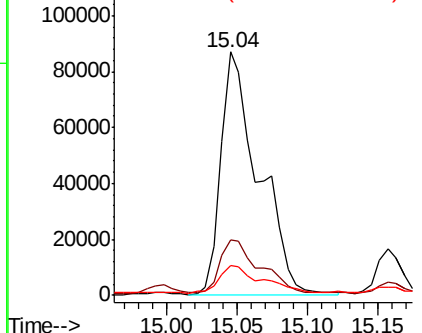


Abundance

Ion 252.00 (251.70 to 252.70): E

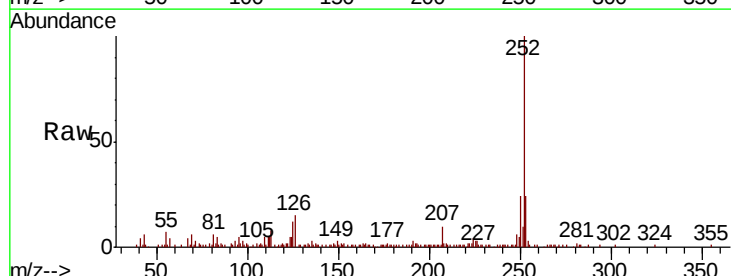
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 5.098 ng
RT: 15.42 min Scan# 2266
Delta R.T. 0.00 min
Lab File: BF112473.D
Acq: 8 Feb 2019 21:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.5	26.3
125	11.9	9.0	13.4

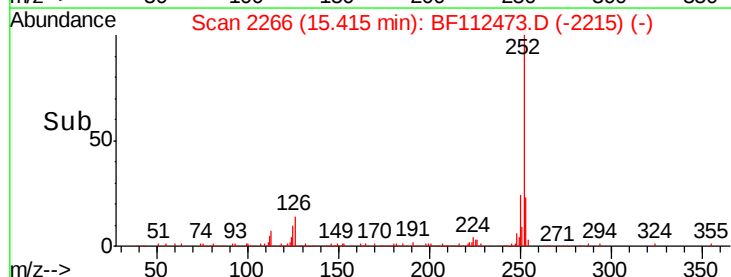
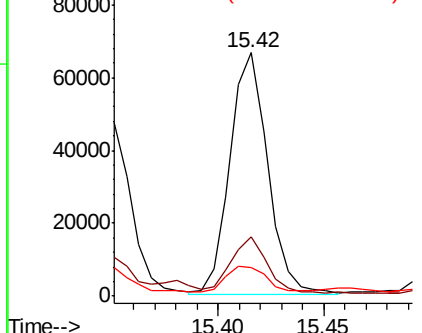


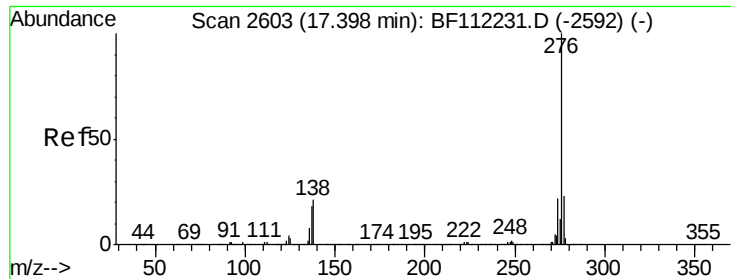
Abundance

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

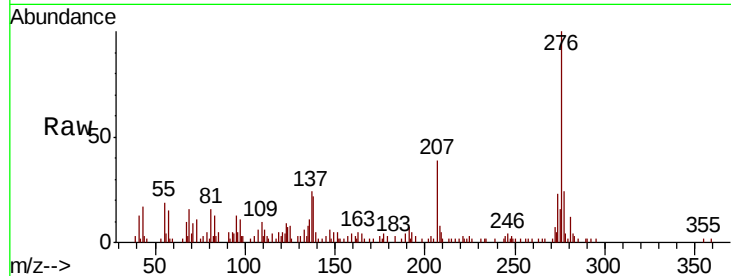




#92
 Benzo(a,h,i)perylene
 Concen: 3.571 ng
 RT: 17.41 min Scan# 2605
 Delta R.T. 0.01 min
 Lab File: BF112473.D
 Acq: 8 Feb 2019 21:25

Instrument :
 BNA_F
 ClientSampleId :
 98-SB-01-2-4

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.4	29.0
138	22.1	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

