

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\
 Data File : BF112023.D
 Acq On : 11 Jan 2019 18:50
 Operator : JU/SJ
 Sample : K1011-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 11 21:24:19 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 07 14:33:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	109694	20.00	ng	-0.02
21) Naphthalene-d8	8.16	136	403371	20.00	ng	-0.02
39) Acenaphthene-d10	9.91	164	174944	20.00	ng	-0.02
64) Phenanthrene-d10	11.40	188	329827	20.00	ng	-0.02
76) Chrysene-d12	14.04	240	325018	20.00	ng	-0.01
87) Perylene-d12	15.52	264	206748	20.00	ng	-0.01

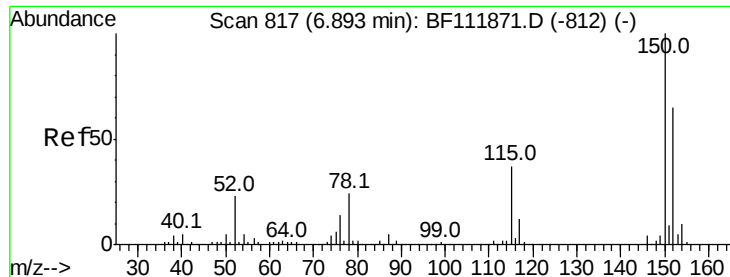
System Monitoring Compounds

5) 2-Fluorophenol	5.50	112	311587	48.60	ng	-0.02
7) Phenol-d6	6.51	99	387857	46.93	ng	-0.02
23) Nitrobenzene-d5	7.43	82	232040	30.74	ng	-0.03
42) 2,4,6-Tribromophenol	10.70	330	101096	44.43	ng	-0.02
45) 2-Fluorobiphenyl	9.23	172	422176	35.19	ng	-0.02
79) Terphenyl-d14	12.98	244	462650	27.02	ng	-0.02

Target Compounds

						Qvalue
9) Benzaldehyde	6.51	77	572	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.43	70	30981	5.770 ng	#	76
25) Isophorone	7.43	82	232078	18.989 ng	#	65
50) Dimethylphthalate	9.62	163	105072	7.995 ng		98
56) 4-Nitrophenol	10.11	139	5578	2.508 ng	#	11
57) 2,4-Dinitrotoluene	9.91	165	23372	6.155 ng	#	27
58) Fluorene	10.46	166	25452	2.197 ng		97
71) Phenanthrene	11.42	178	341811	19.383 ng		99
72) Anthracene	11.47	178	127389	7.116 ng		98
75) Fluoranthene	12.62	202	1395163	77.068 ng		97
78) Pyrene	12.84	202	1229039	54.958 ng		99
81) Benzo(a)anthracene	14.03	228	654391	34.984 ng		99
83) Chrysene	14.07	228	516157	28.941 ng		96
86) Indeno(1,2,3-cd)pyrene	17.01	276	204204	15.705 ng		95
88) Benzo(b)fluoranthene	15.09	252	772224	62.440 ng		97
89) Benzo(k)fluoranthene	15.09	252	772224	66.426 ng		98
90) Benzo(a)pyrene	15.46	252	374686	34.456 ng		98
91) Dibenzo(a,h)anthracene	17.02	278	48996	5.602 ng	#	94
92) Benzo(a,h,i)perylene	17.46	276	222365	25.994 ng		99

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

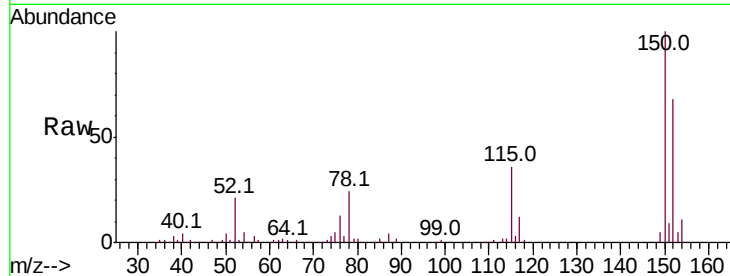


#1

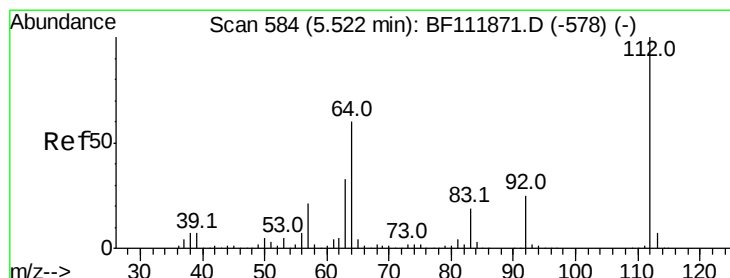
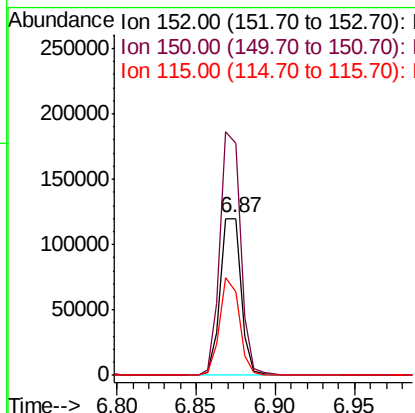
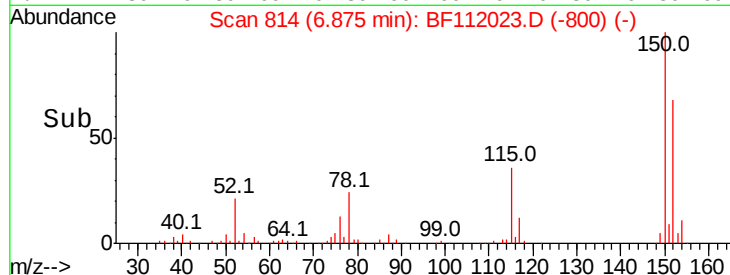
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.02 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	147.8	122.7	184.1
115	53.3	45.2	67.8



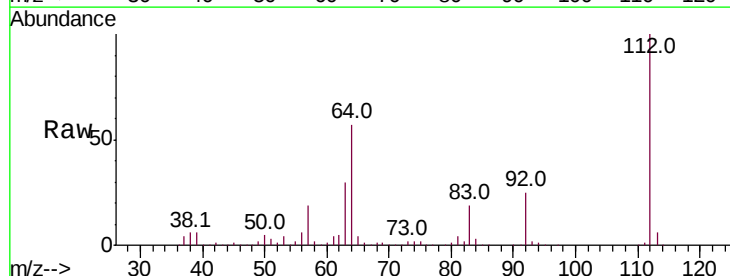
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



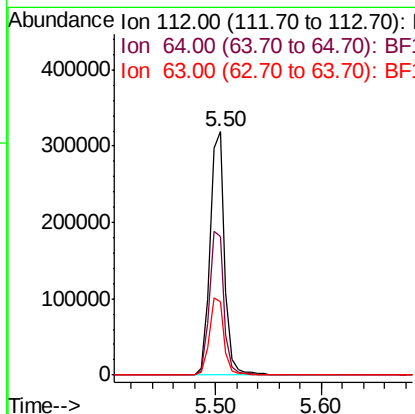
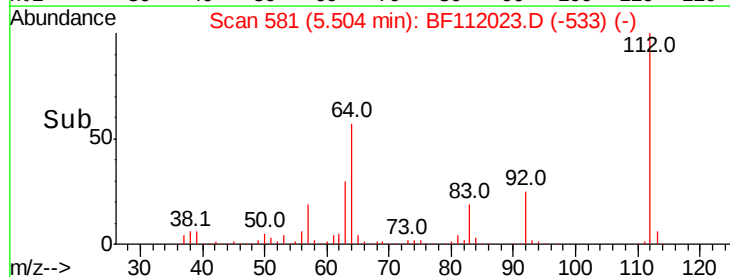
#5

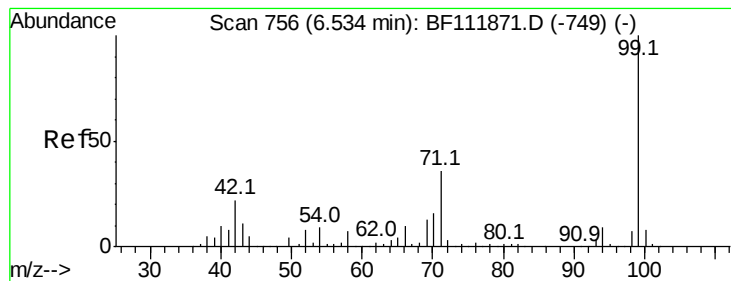
2-Fluorophenol
Concen: 48.596 ng
RT: 5.50 min Scan# 581
Delta R.T. -0.02 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.7	48.3	72.5
63	30.4	26.1	39.1



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: 46.933 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampleId :

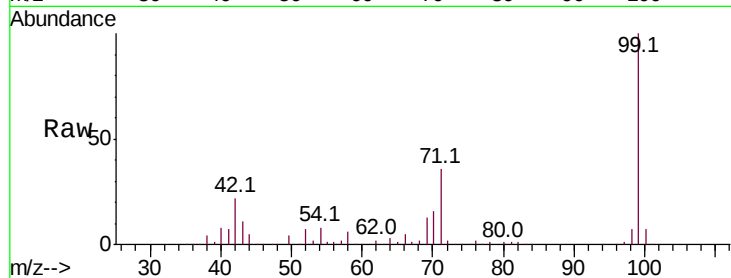
Tot Ion: 99 Resp: 387857

Ion Ratio Lower Upper

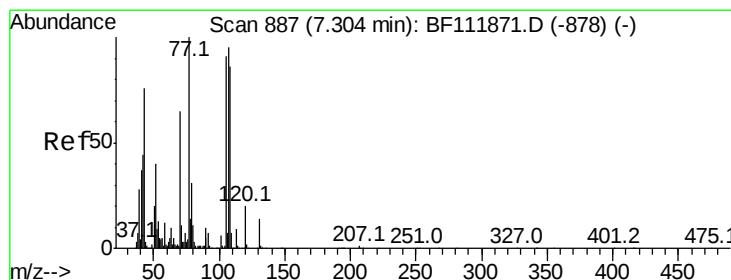
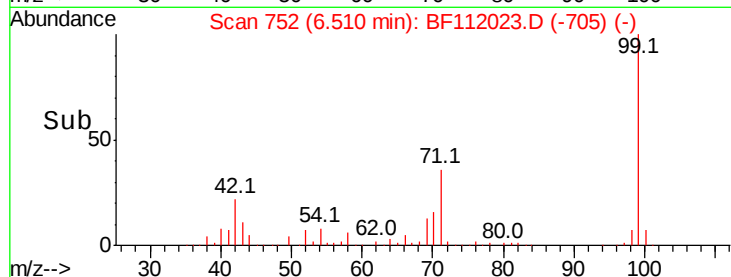
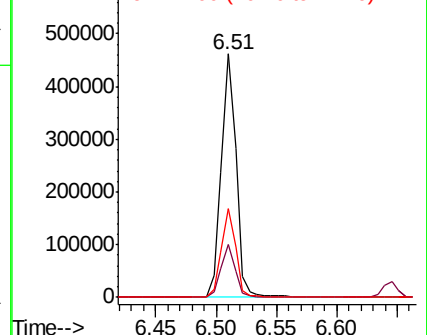
99 100

42 21.7 17.9 26.9

71 36.2 28.7 43.1



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: 5.770 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.12 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Tgt Ion: 70 Resp: 30981

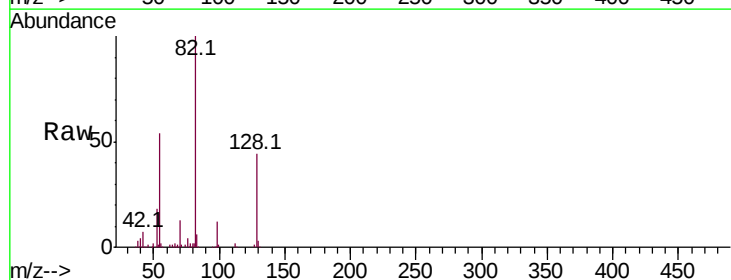
Ion Ratio Lower Upper

70 100

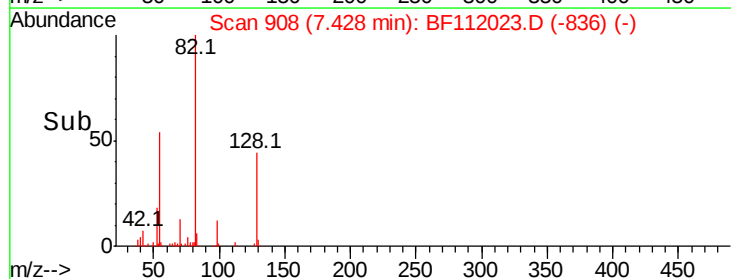
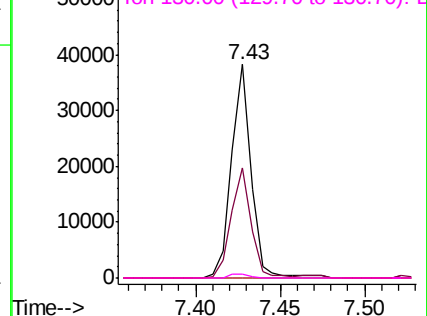
42 51.8 53.6 80.4#

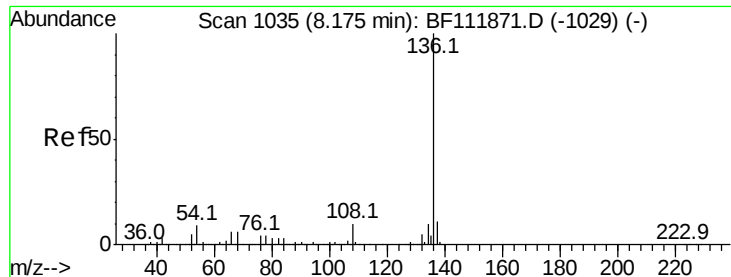
101 0.0 7.3 10.9#

130 2.0 16.8 25.2#



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: 8.16 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 403371

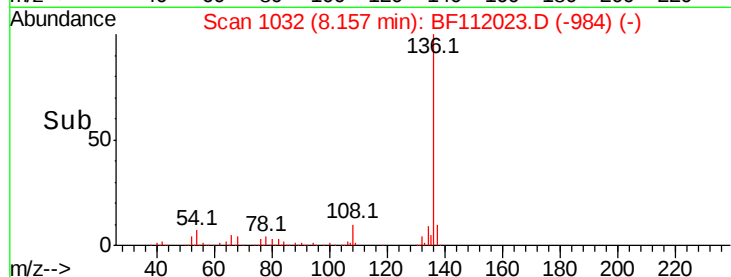
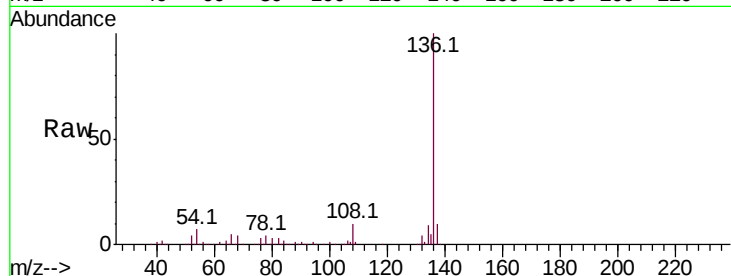
Ion Ratio Lower Upper

136 100

137 9.8 9.1 13.7

54 7.4 7.2 10.8

68 4.4 4.4 6.6#

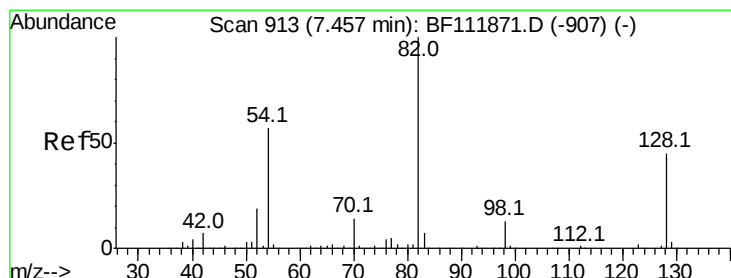
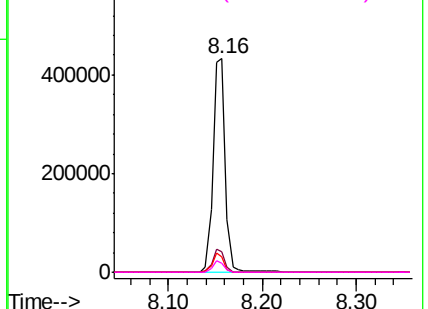


Abundance Ion 136.00 (135.70 to 136.70): E

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: 30.745 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.03 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

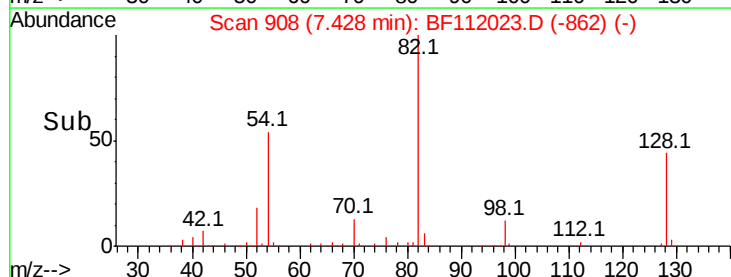
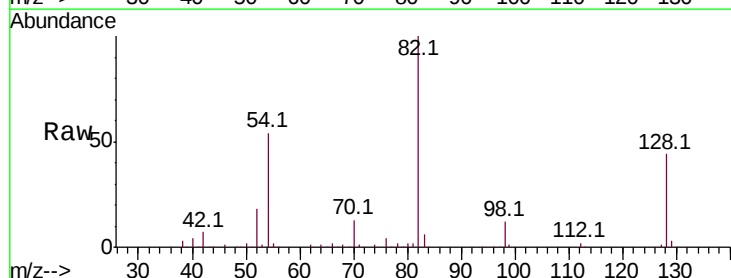
Tgt Ion: 82 Resp: 232040

Ion Ratio Lower Upper

82 100

128 44.1 35.7 53.5

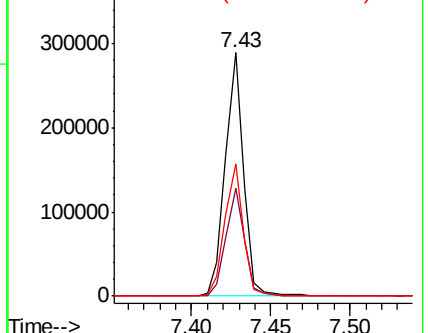
54 54.4 45.8 68.8

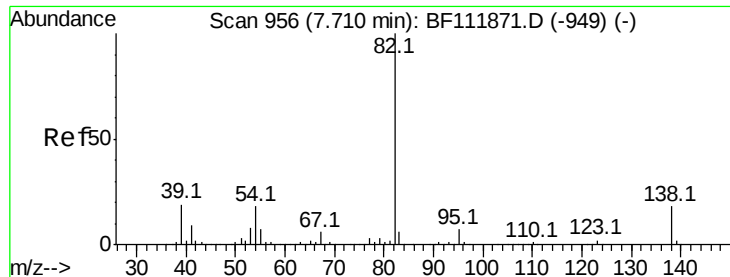


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 18.989 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.28 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampled :

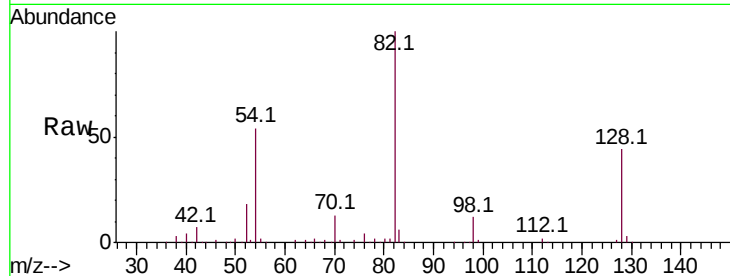
Tot Ion: 82 Resp: 232078

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

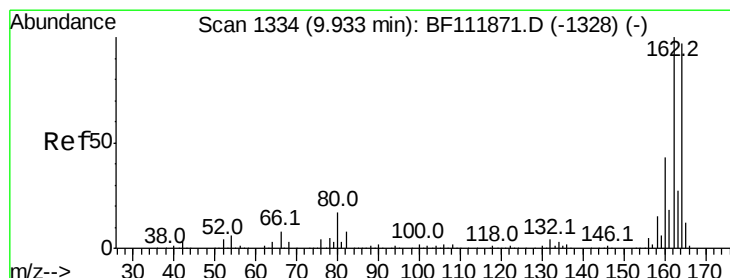
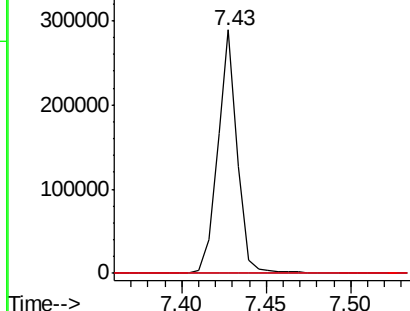
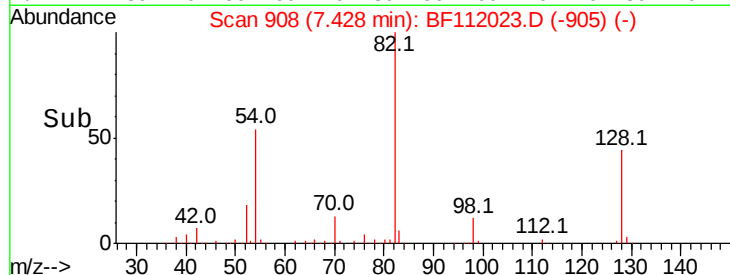
138 0.0 14.4 21.6#



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: 9.91 min Scan# 1330

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

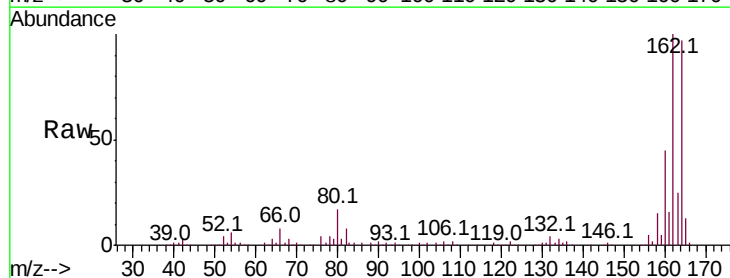
Tgt Ion: 164 Resp: 174944

Ion Ratio Lower Upper

164 100

162 102.7 82.2 123.2

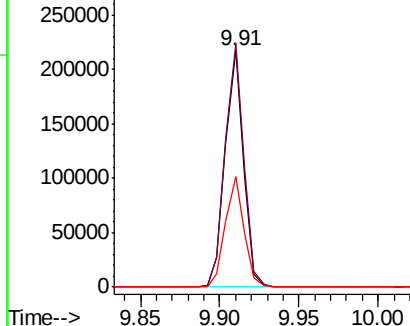
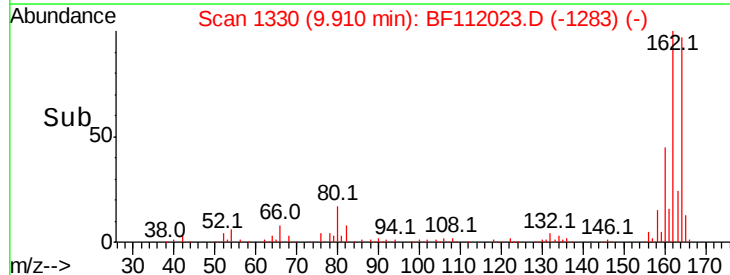
160 46.6 35.5 53.3

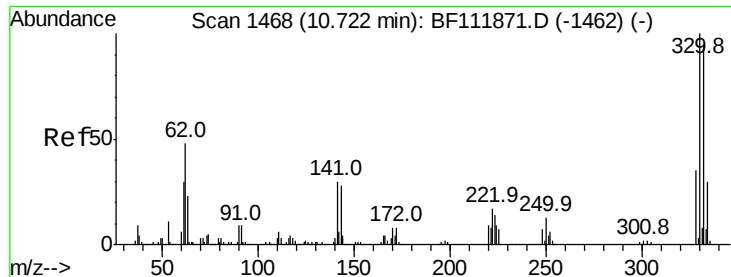


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 44.428 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampleId :

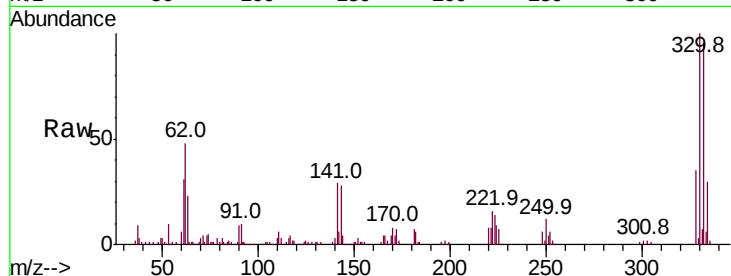
Tot Ion:330 Resp: 101096

Ion Ratio Lower Upper

330 100

332 95.4 76.9 115.3

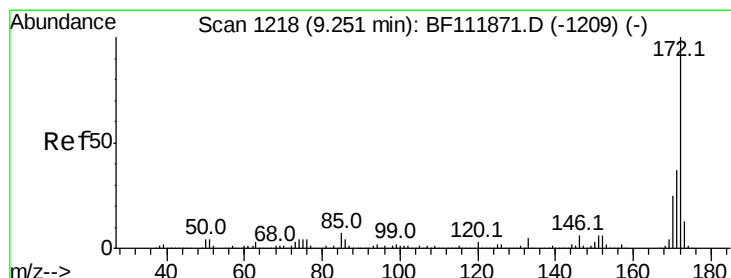
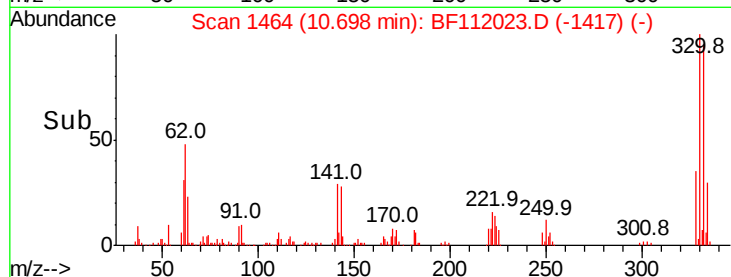
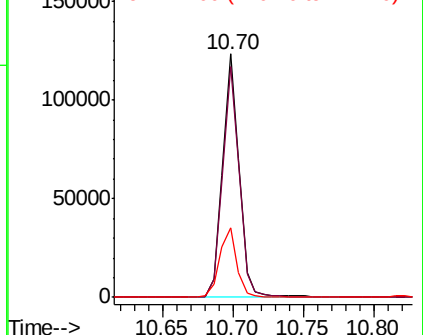
141 29.8 23.7 35.5



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: 35.189 ng

RT: 9.23 min Scan# 1214

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

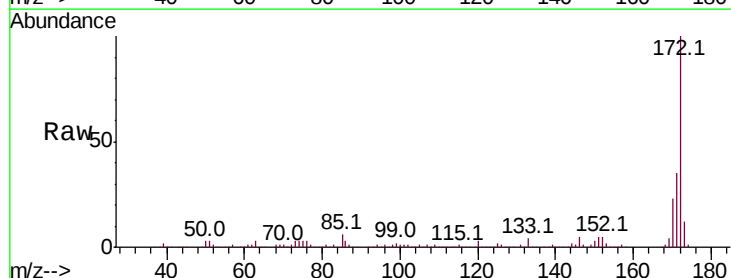
Tgt Ion:172 Resp: 422176

Ion Ratio Lower Upper

172 100

171 34.7 29.6 44.4

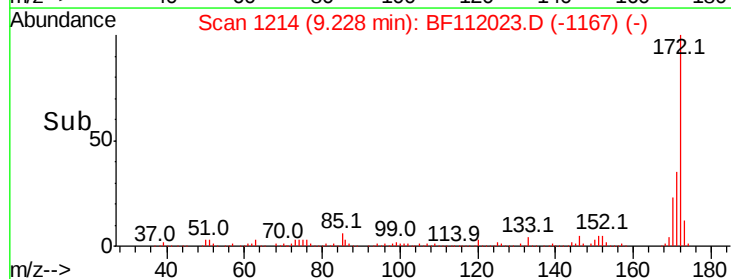
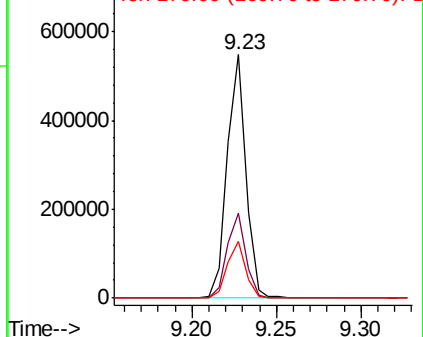
170 23.1 19.8 29.8

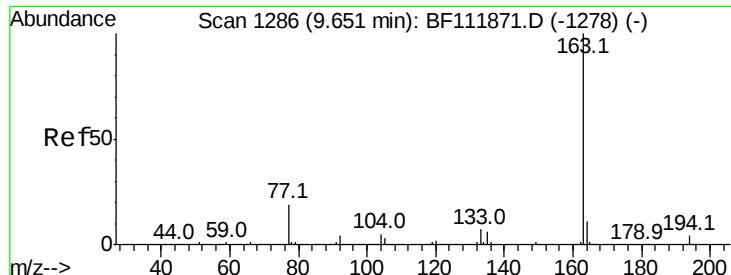


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

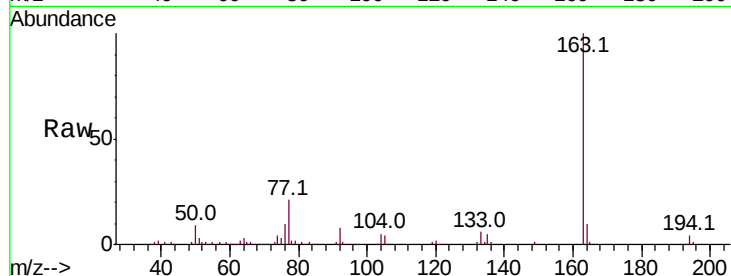




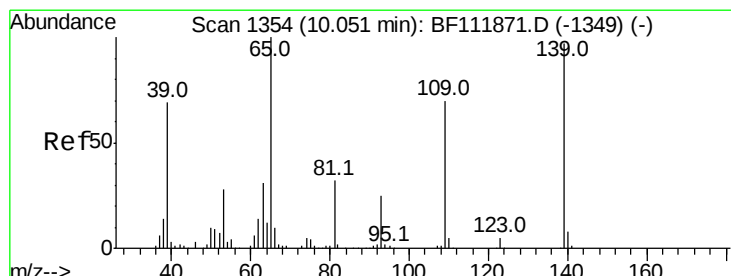
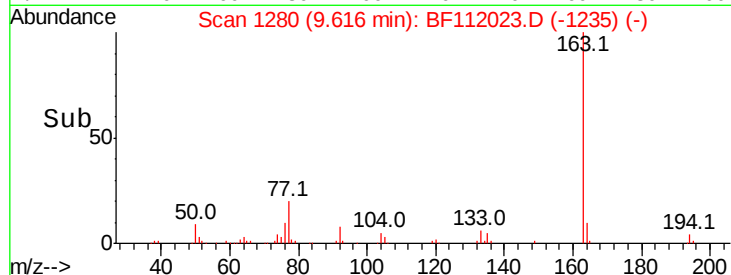
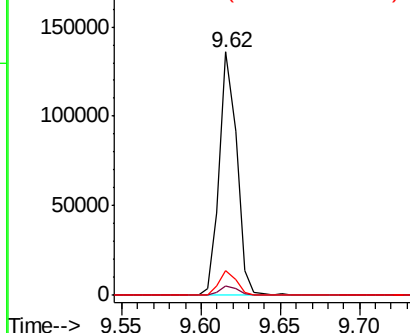
#50
Dimethylphthalate
Concen: 7.995 ng
RT: 9.62 min Scan# 1280
Delta R.T. -0.04 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 105072
Ion Ratio Lower Upper
163 100
194 3.7 3.4 5.2
164 10.0 8.5 12.7

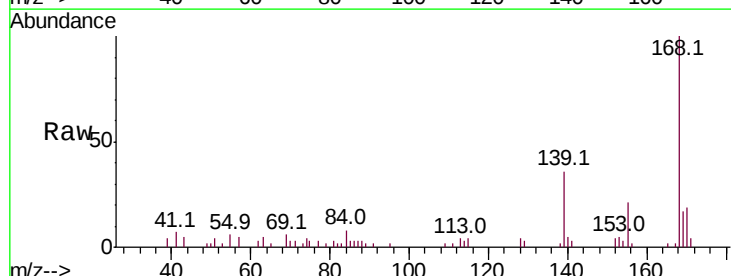


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

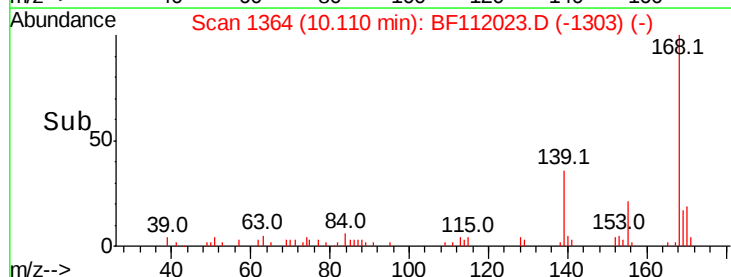
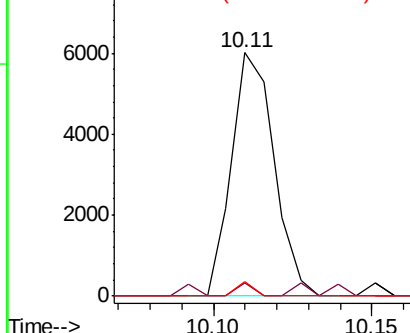


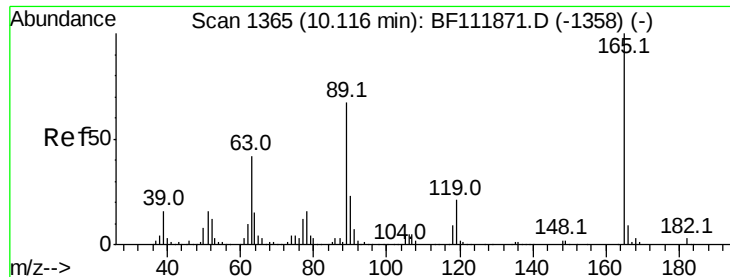
#56
4-Nitrophenol
Concen: 2.508 ng
RT: 10.11 min Scan# 1364
Delta R.T. 0.06 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

Tgt Ion:139 Resp: 5578
Ion Ratio Lower Upper
139 100
109 5.3 52.2 92.2#
65 6.2 83.1 123.1#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

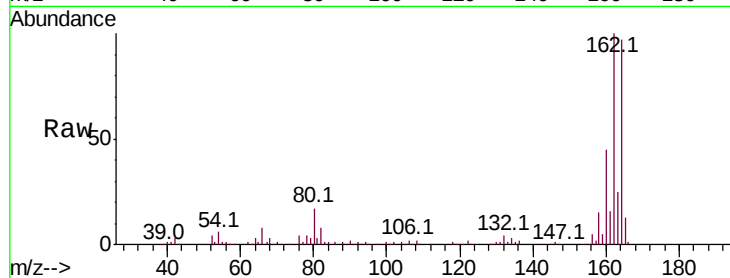




#57
2,4-Dinitrotoluene
Concen: 6.155 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.21 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	34.1	51.1#
89	1.4	53.5	80.3#
182	0.0	2.0	3.0#



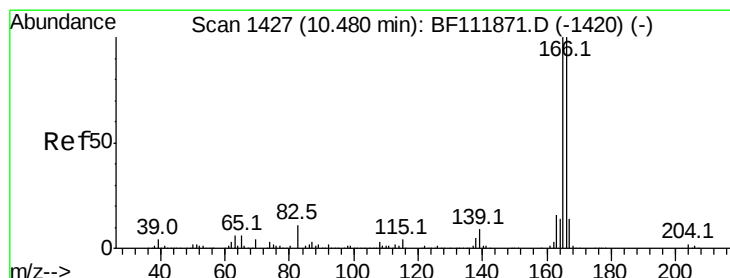
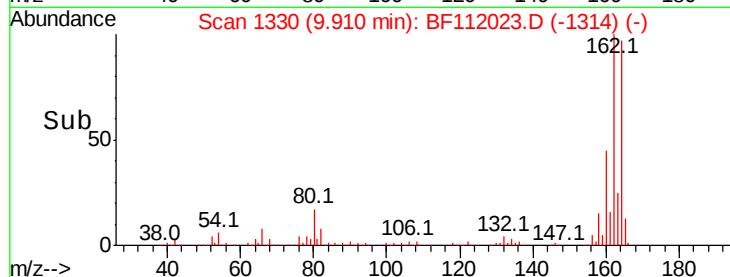
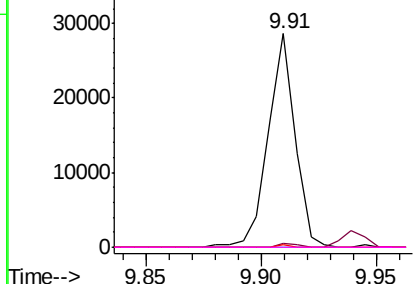
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

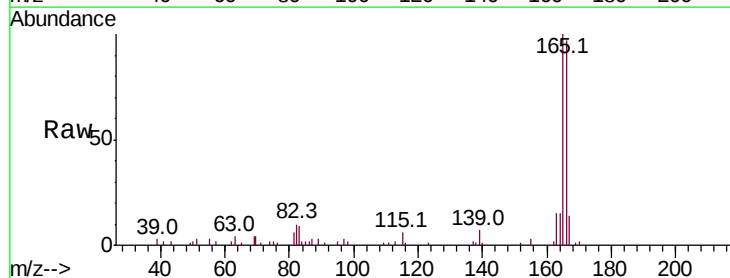
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#58
Fluorene
Concen: 2.197 ng
RT: 10.46 min Scan# 1423
Delta R.T. -0.02 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.7	79.7	119.5
167	14.3	11.1	16.7

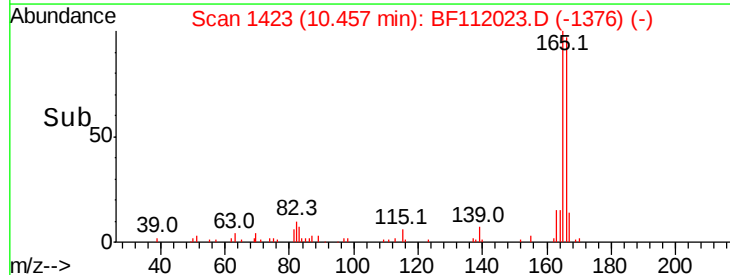
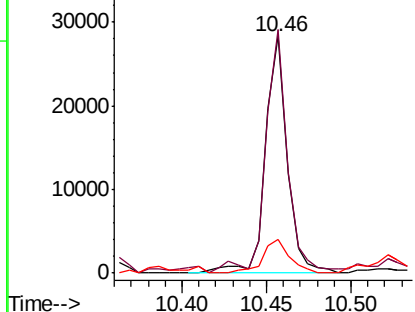


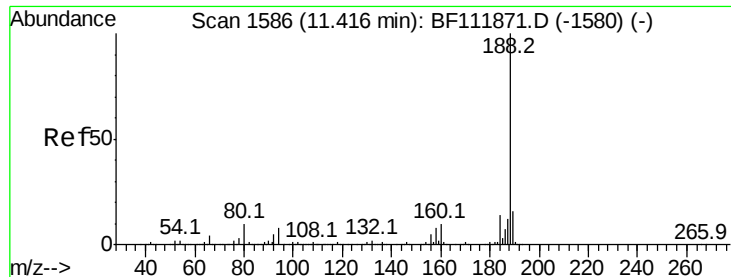
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampleId :

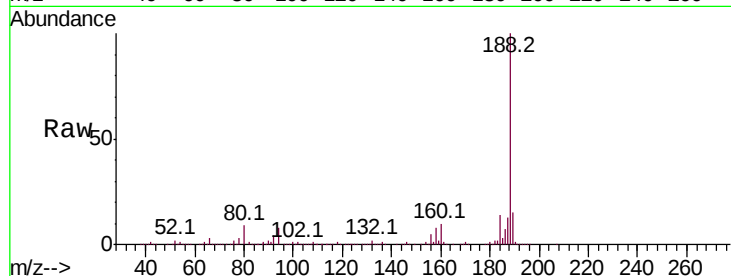
Tot Ion:188 Resp: 329827

Ion Ratio Lower Upper

188 100

94 7.7 6.6 10.0

80 8.7 7.7 11.5



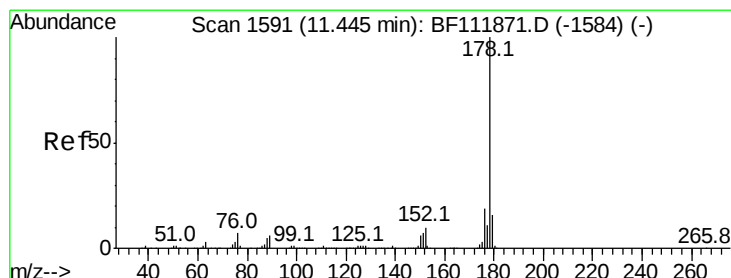
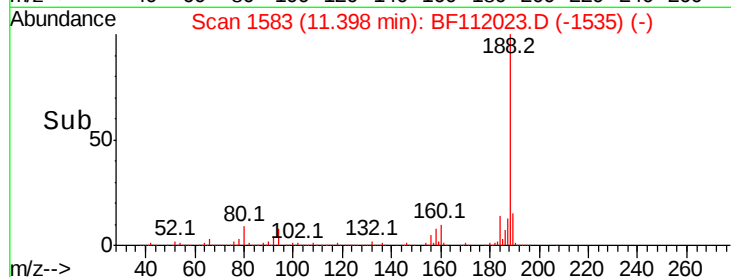
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

11.40

Time-->



#71

Phenanthrene

Concen: 19.383 ng

RT: 11.42 min Scan# 1587

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

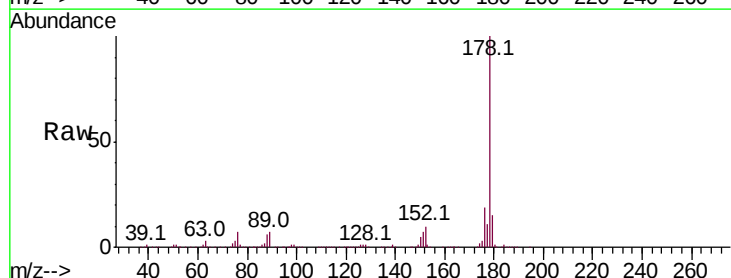
Tgt Ion:178 Resp: 341811

Ion Ratio Lower Upper

178 100

176 18.6 15.6 23.4

179 15.5 12.6 18.8



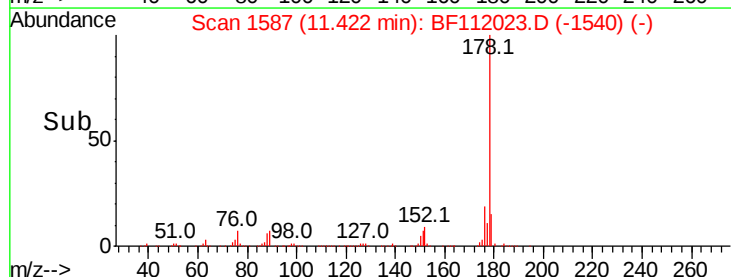
Abundance Ion 178.00 (177.70 to 178.70): E

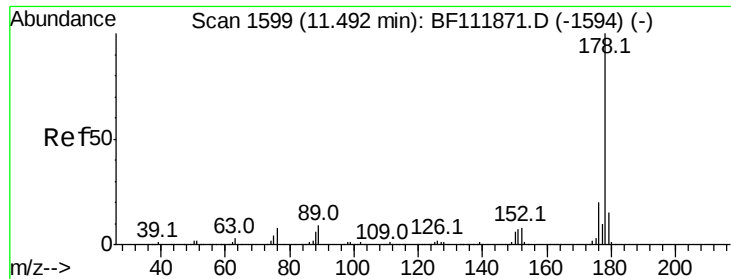
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

11.42

Time-->





#72

Anthracene

Concen: 7.116 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampled :

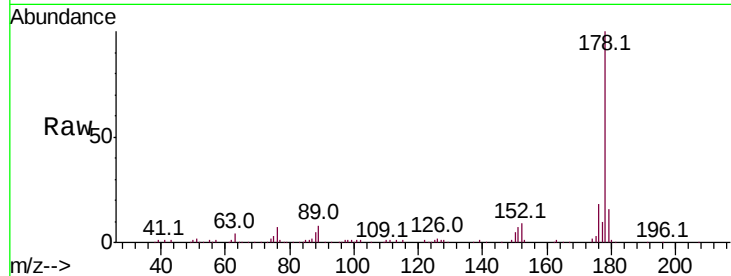
Tot Ion:178 Resp: 127389

Ion Ratio Lower Upper

178 100

176 18.4 15.7 23.5

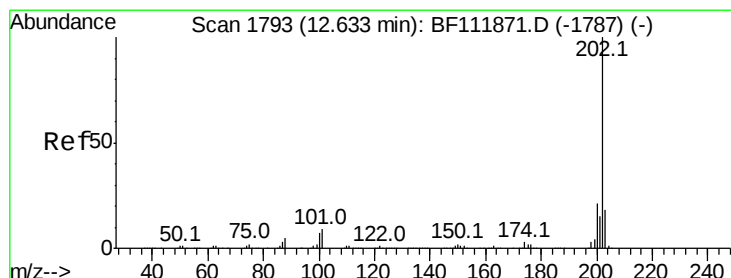
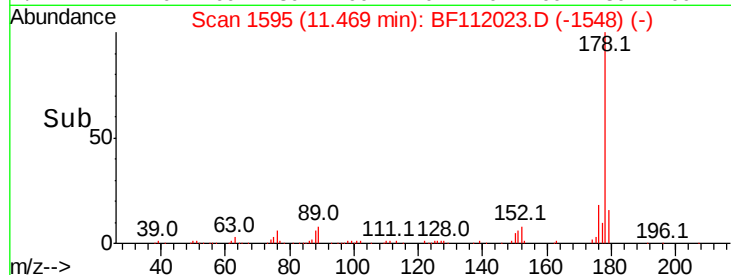
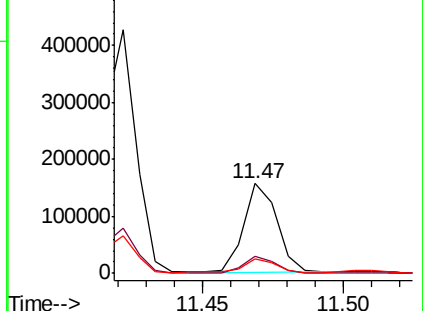
179 16.2 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 77.068 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

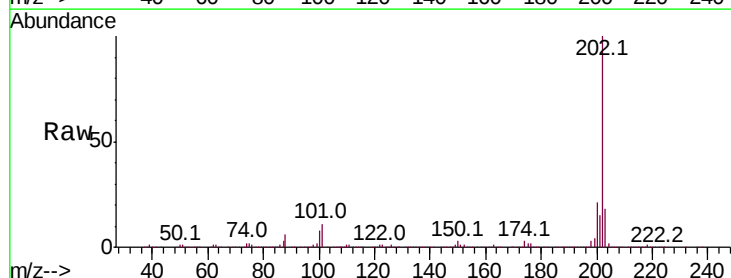
Tgt Ion:202 Resp: 1395163

Ion Ratio Lower Upper

202 100

101 11.3 0.0 29.3

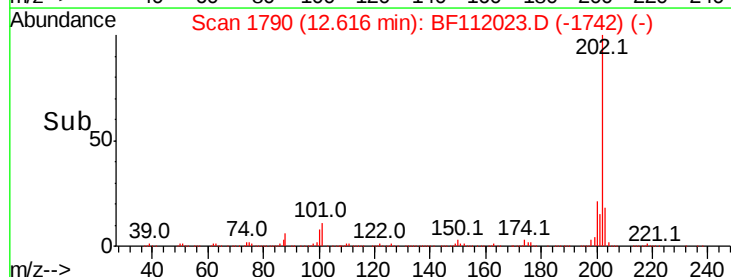
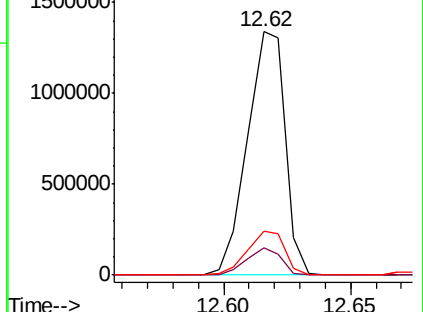
203 18.0 0.0 37.6

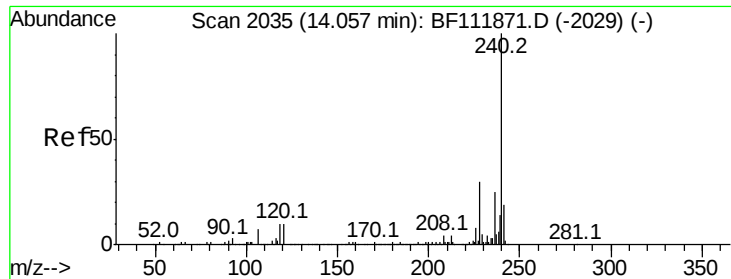


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

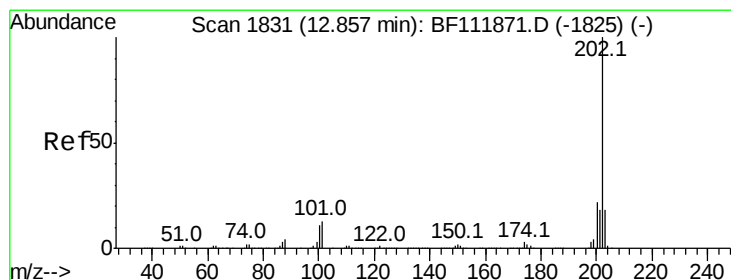
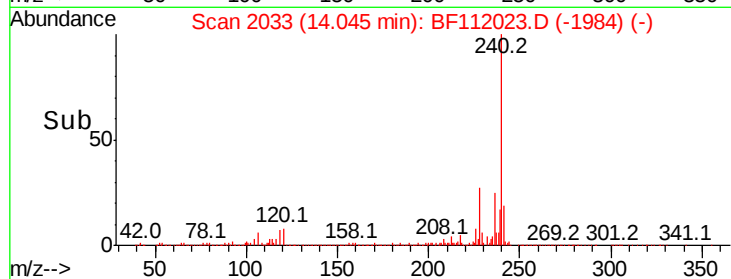
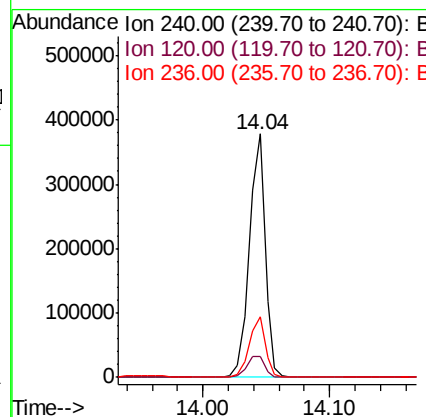
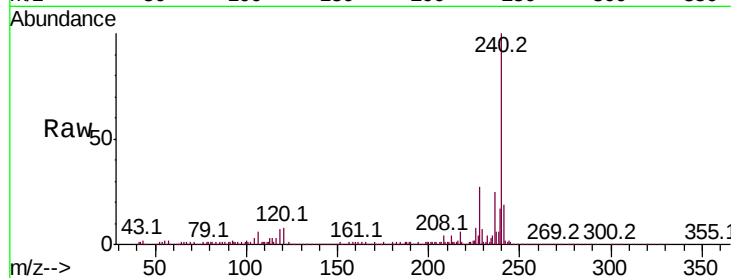




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

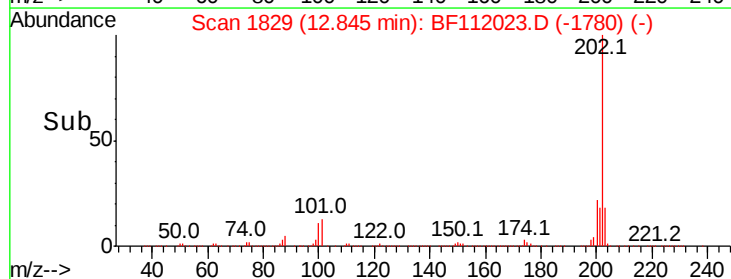
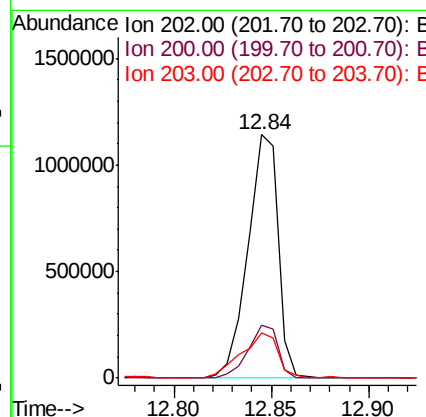
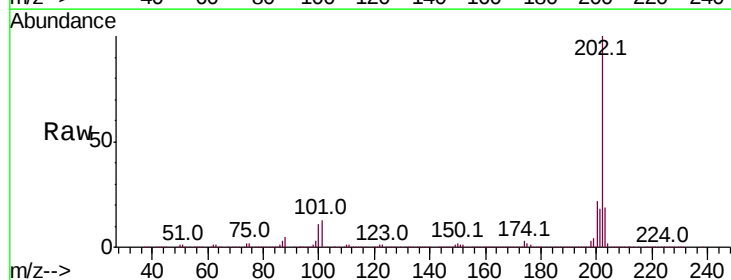
Instrument :
BNA_F
ClientSampleId :

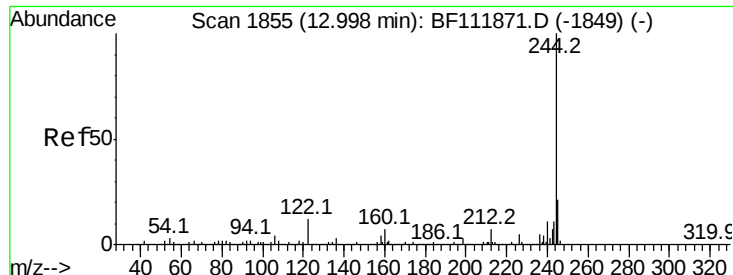
Tot Ion:240 Resp: 325018
Ion Ratio Lower Upper
240 100
120 8.4 8.2 12.2
236 25.1 20.2 30.4



#78
Pyrene
Concen: 54.958 ng
RT: 12.84 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

Tgt Ion:202 Resp: 1229039
Ion Ratio Lower Upper
202 100
200 21.6 17.4 26.2
203 18.6 14.6 21.8





#79

Terphenyl-d14

Concen: 27.020 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampleId :

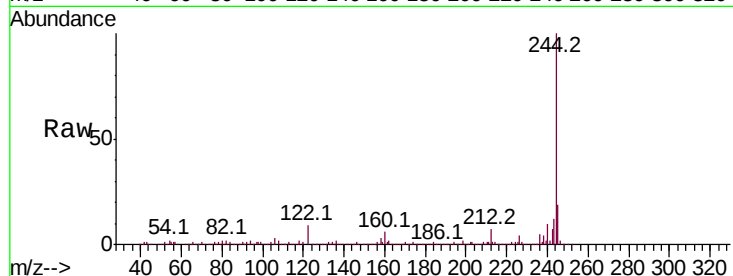
Tot Ion:244 Resp: 462650

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

122 8.9 9.5 14.3#

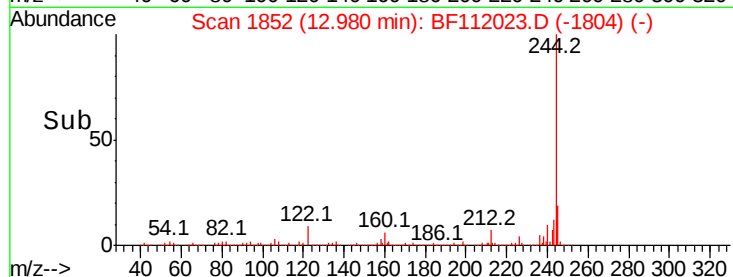


Abundance Ion 244.00 (243.70 to 244.70): E

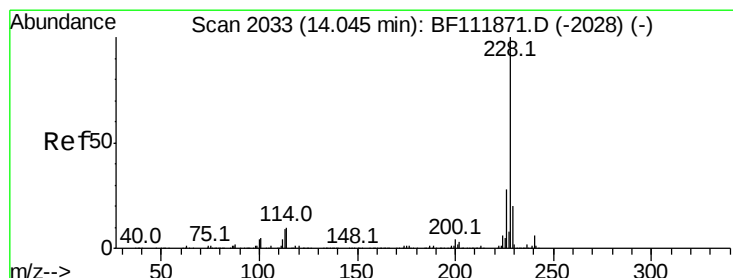
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

12.98



Time--> 12.90 13.00



#81

Benzo(a)anthracene

Concen: 34.984 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

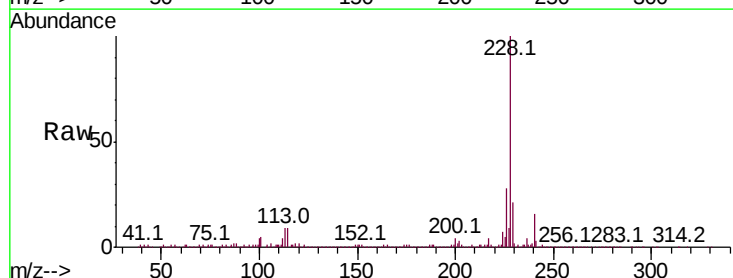
Tgt Ion:228 Resp: 654391

Ion Ratio Lower Upper

228 100

226 28.1 22.2 33.2

229 20.6 16.2 24.2

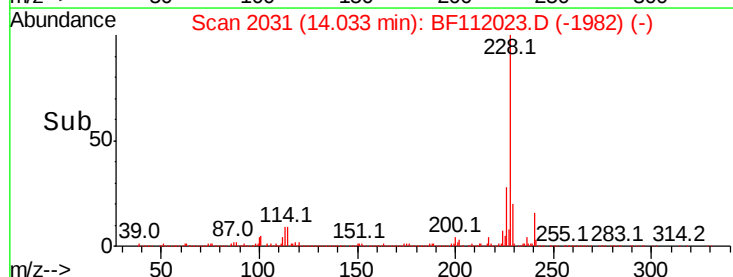


Abundance Ion 228.00 (227.70 to 228.70): E

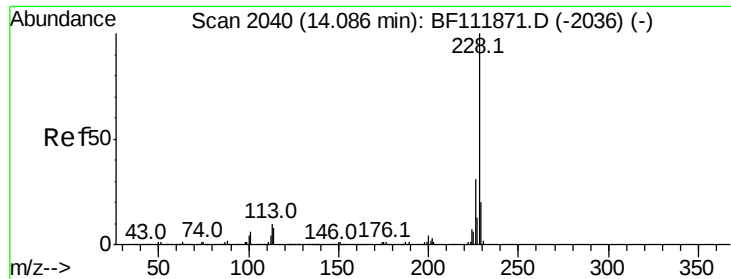
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

14.03



Time--> 13.95 14.00 14.05



#83

Chrysene

Concen: 28.941 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampleId :

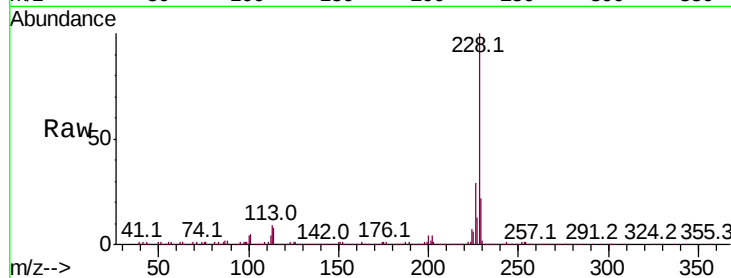
Tot Ion:228 Resp: 516157

Ion Ratio Lower Upper

228 100

226 29.1 24.6 37.0

229 21.9 15.7 23.5

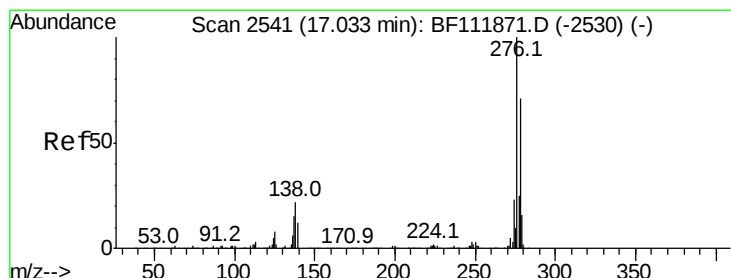
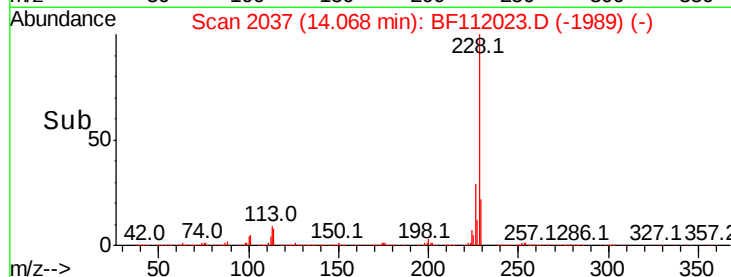
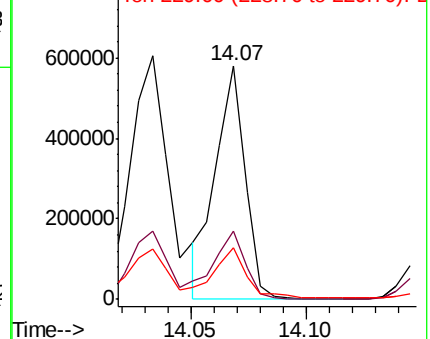


Abundance

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: 15.705 ng

RT: 17.01 min Scan# 2537

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

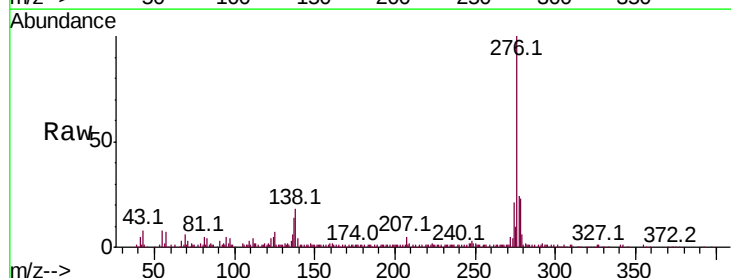
Tgt Ion:276 Resp: 204204

Ion Ratio Lower Upper

276 100

138 18.7 18.1 27.1

277 24.1 19.9 29.9

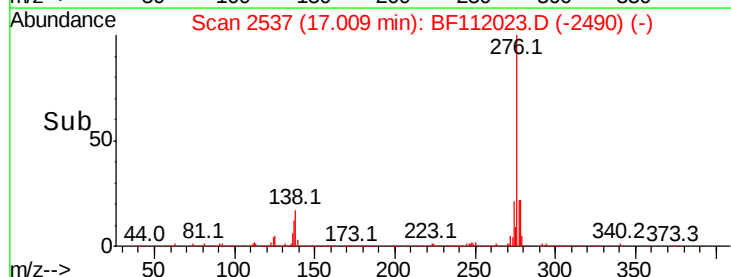
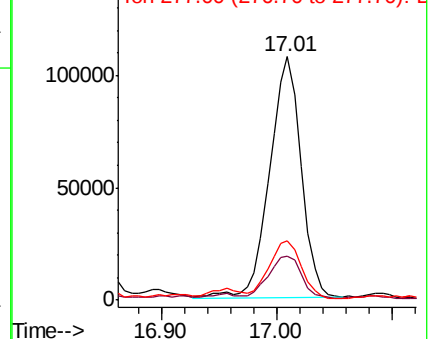


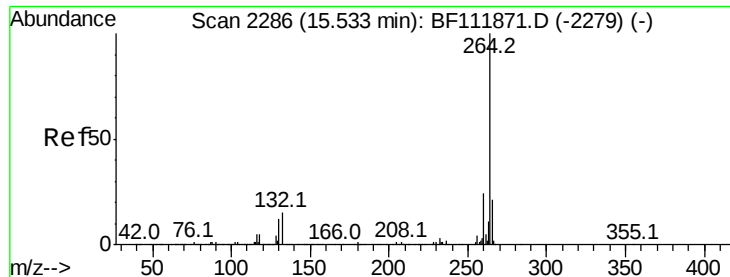
Abundance

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: 15.52 min Scan# 2284

Delta R.T. -0.01 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampleId :

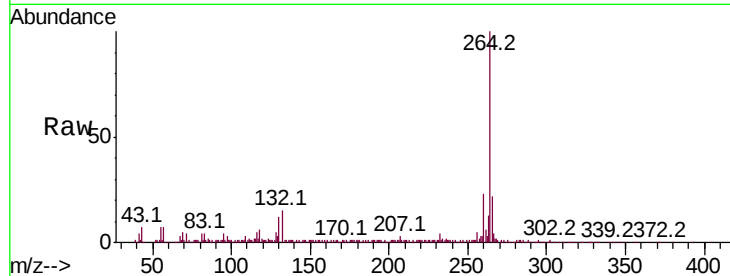
Tot Ion:264 Resp: 206748

Ion Ratio Lower Upper

264 100

260 23.1 19.2 28.8

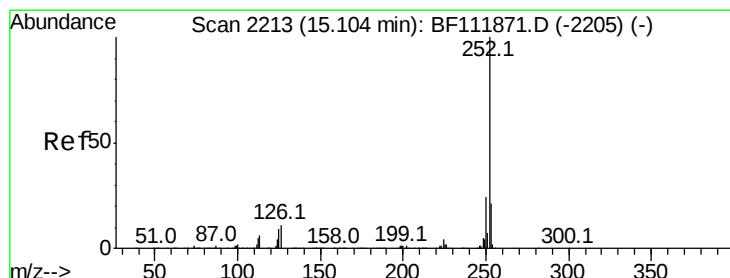
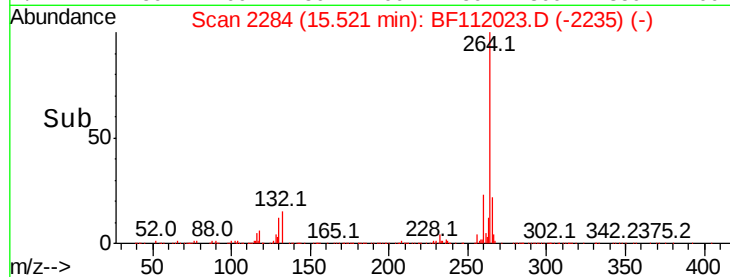
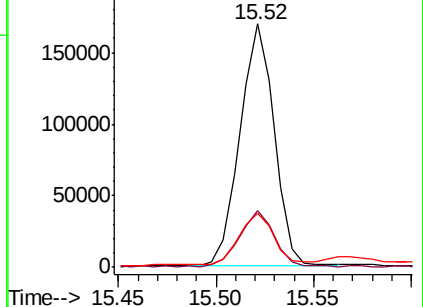
265 22.2 17.1 25.7



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: 62.440 ng

RT: 15.09 min Scan# 2211

Delta R.T. -0.01 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

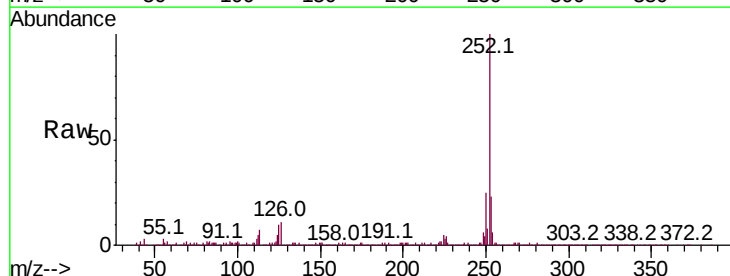
Tgt Ion:252 Resp: 772224

Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.6

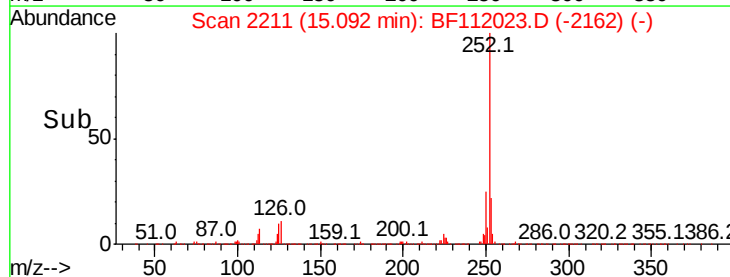
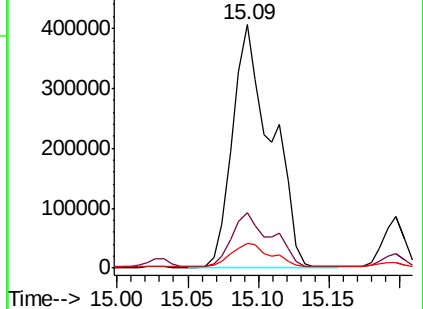
125 10.2 7.1 10.7

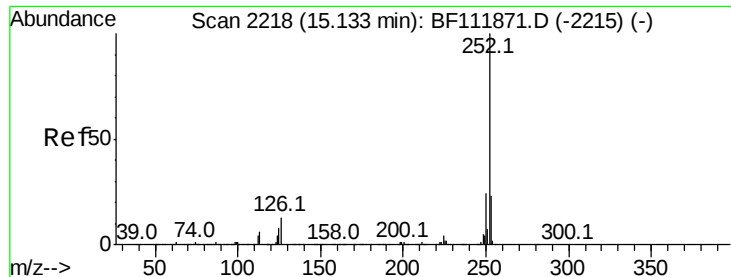


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

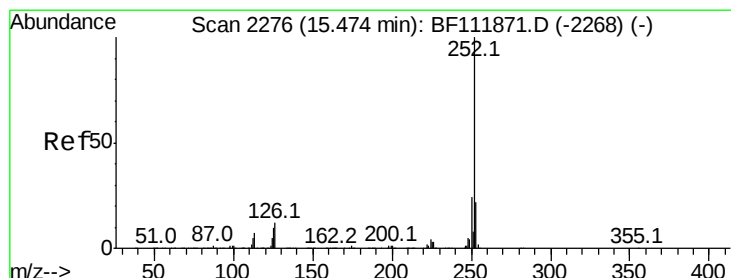
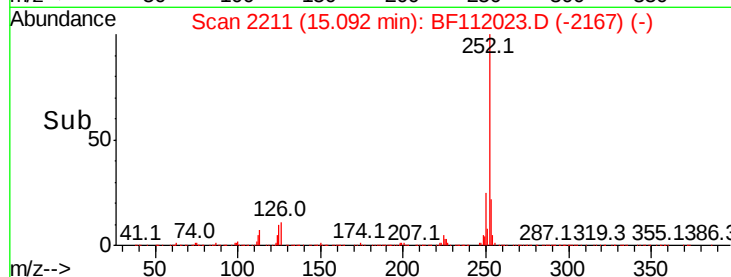
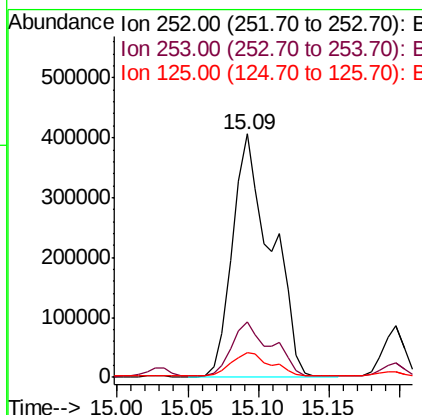
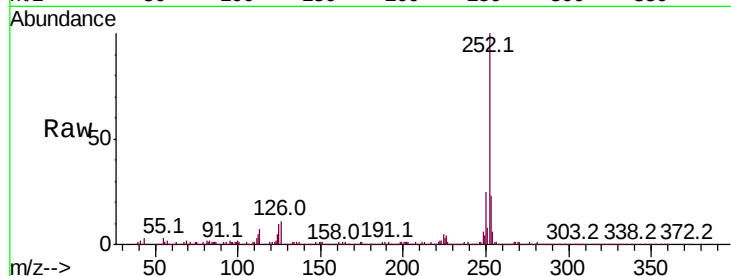




#89
Benzo(k)fluoranthene
Concen: 66.426 ng
RT: 15.09 min Scan# 2211
Delta R.T. -0.04 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

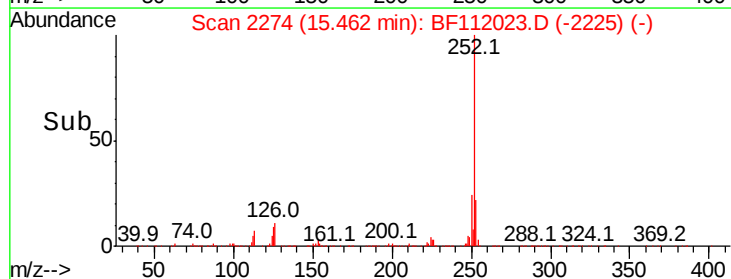
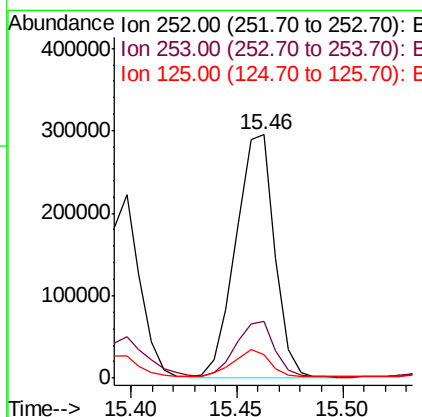
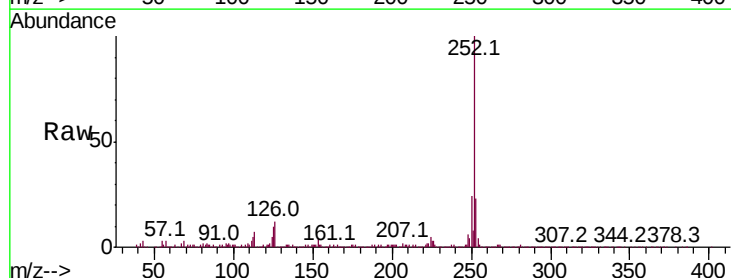
Instrument :
BNA_F
ClientSampleId :

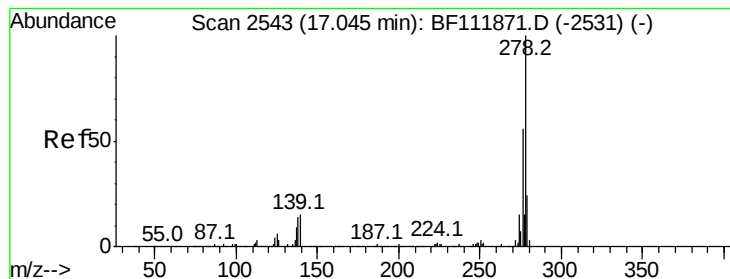
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.6
125	10.2	7.0	10.4



#90
Benzo(a)pyrene
Concen: 34.456 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BF112023.D
Acq: 11 Jan 2019 18:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.4	26.2
125	9.6	7.9	11.9





#91

Dibenzo(a,h)anthracene

Concen: 5.602 ng

RT: 17.02 min Scan# 2538

Delta R.T. -0.03 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

Instrument :

BNA_F

ClientSampleId :

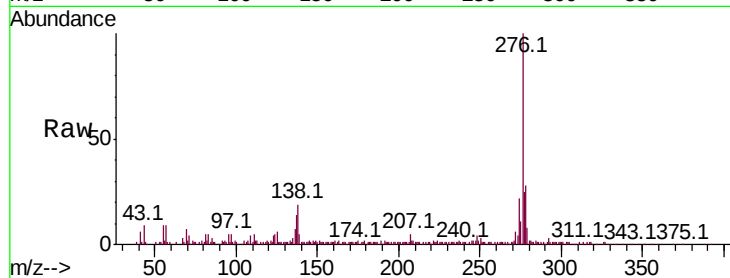
Tot Ion:278 Resp: 48996

Ion Ratio Lower Upper

278 100

139 17.9 11.8 17.6#

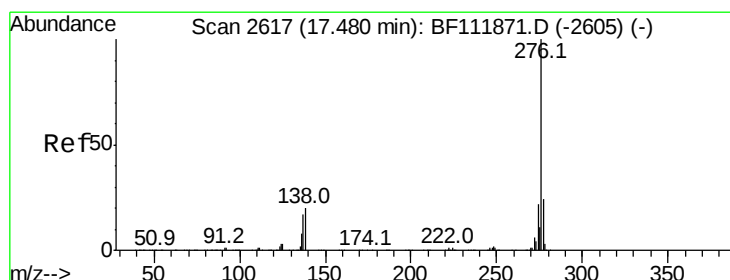
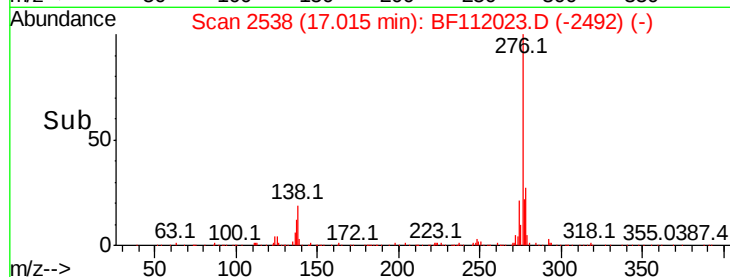
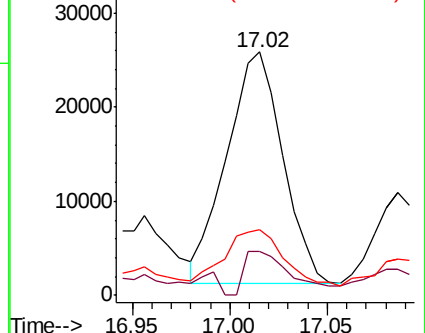
279 26.9 19.4 29.2



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: 25.994 ng

RT: 17.46 min Scan# 2613

Delta R.T. -0.02 min

Lab File: BF112023.D

Acq: 11 Jan 2019 18:50

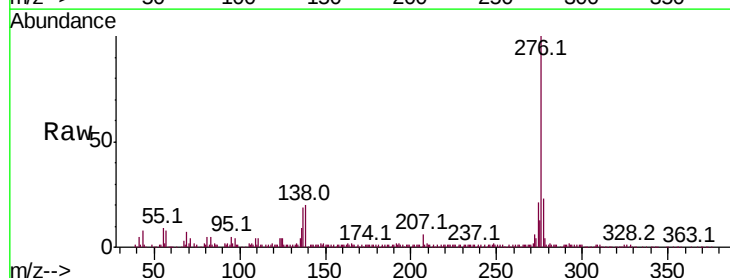
Tgt Ion:276 Resp: 222365

Ion Ratio Lower Upper

276 100

277 23.0 19.0 28.6

138 20.4 16.2 24.2



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

