

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF050120\
 Data File : BF120276.D
 Acq On : 1 May 2020 23:32
 Operator : MA/SJ
 Sample : L2376-03 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 02 01:13:53 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 01 15:26:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	39002	20.00	ng	0.00
21) Naphthalene-d8	7.93	136	139869	20.00	ng	0.00
39) Acenaphthene-d10	9.69	164	63517	20.00	ng	-0.01
64) Phenanthrene-d10	11.17	188	115098	20.00	ng	0.00
76) Chrysene-d12	13.81	240	100547	20.00	ng	-0.02
87) Perylene-d12	15.22	264	98048	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	129869	57.55	ng	0.00
7) Phenol-d6	6.30	99	149070	51.26	ng	-0.01
23) Nitrobenzene-d5	7.21	82	84873	31.39	ng	-0.02
42) 2,4,6-Tribromophenol	10.48	330	29726	38.22	ng	-0.01
45) 2-Fluorobiphenyl	9.01	172	192452	43.02	ng	-0.01
79) Terphenyl-d14	12.76	244	187188	31.33	ng	-0.01

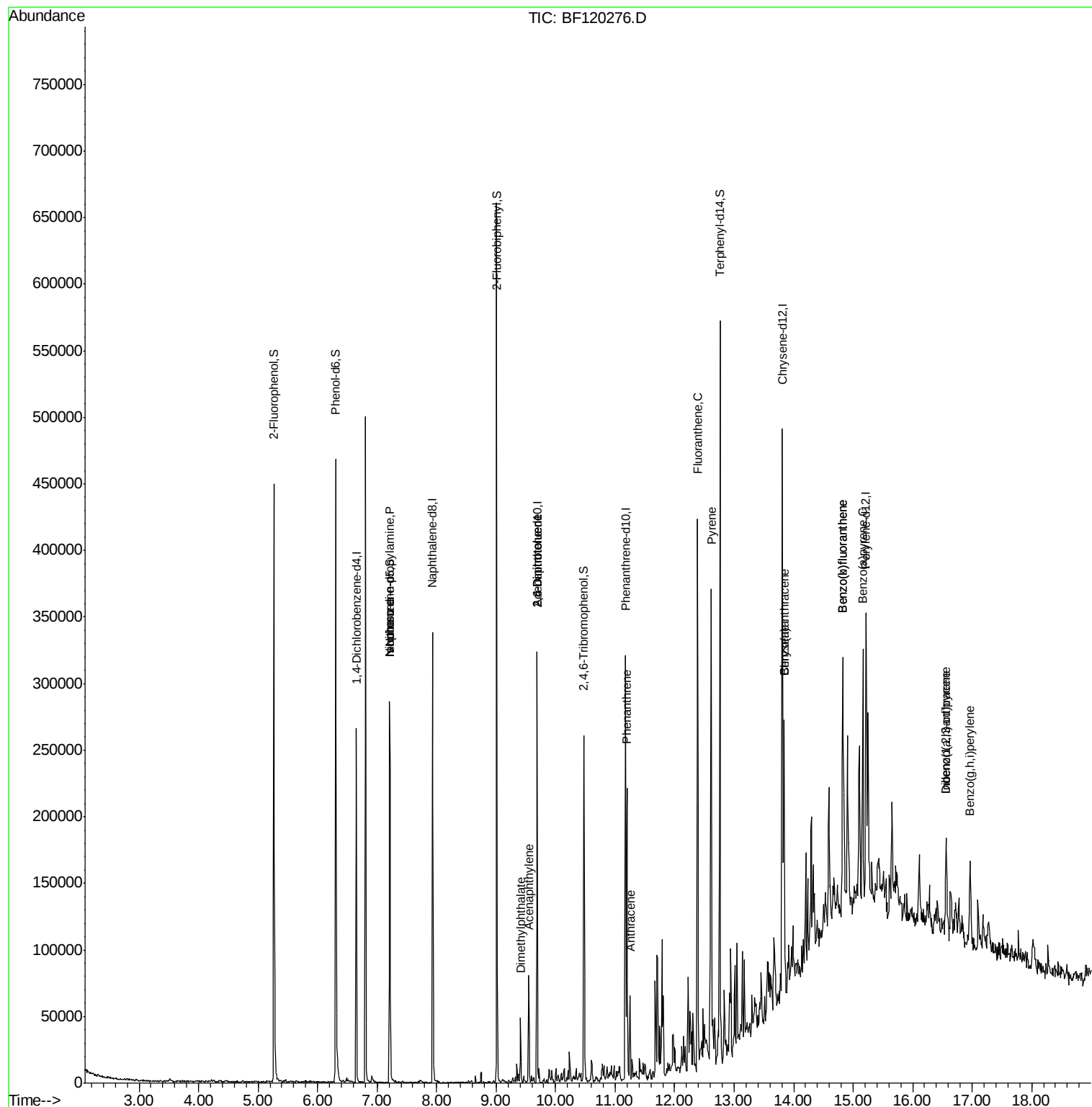
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.21	70	9712	5.194	ng	# 79
25) Isophorone	7.21	82	84872	16.285	ng	# 65
49) Acenaphthylene	9.55	152	33079	5.267	ng	95
50) Dimethylphthalate	9.41	163	16816	3.423	ng	98
51) 2,6-Dinitrotoluene	9.69	165	8735	8.119	ng	# 25
57) 2,4-Dinitrotoluene	9.69	165	8735	6.162	ng	# 19
71) Phenanthrene	11.20	178	77520	12.655	ng	95
72) Anthracene	11.25	178	25118	4.014	ng	98
75) Fluoranthene	12.39	202	148690	22.496	ng	95
78) Pyrene	12.62	202	151868	17.917	ng	97
81) Benzo(a)anthracene	13.84	228	85758	12.965	ng	98
83) Chrysene	13.84	228	85758	12.760	ng	95
86) Indeno(1,2,3-cd)pyrene	16.56	276	41707	7.040	ng	96
88) Benzo(b)fluoranthene	14.82	252	131633	18.663	ng	# 97
89) Benzo(k)fluoranthene	14.82	252	131633	21.630	ng	98
90) Benzo(a)pyrene	15.16	252	80297	13.540	ng	98
91) Dibenzo(a,h)anthracene	16.57	278	11938	2.273	ng	# 69
92) Benzo(g,h,i)perylene	16.97	276	42873	8.268	ng	97

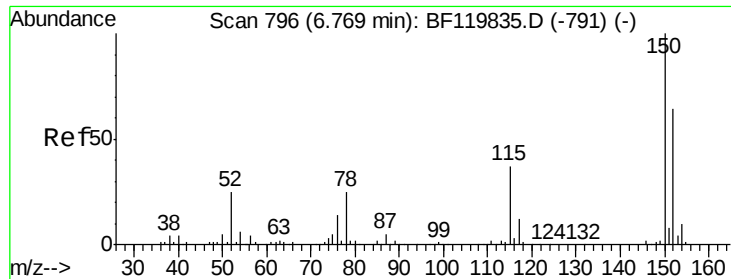
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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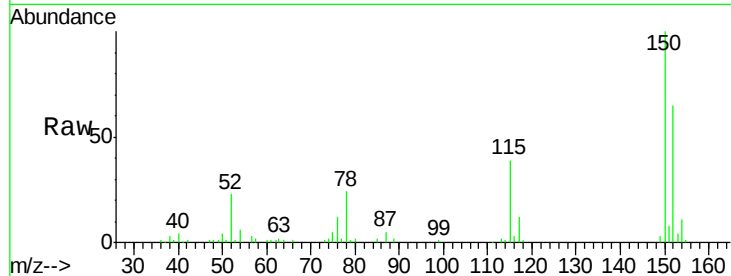


#1

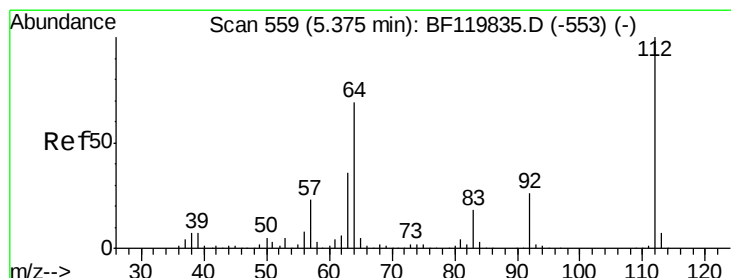
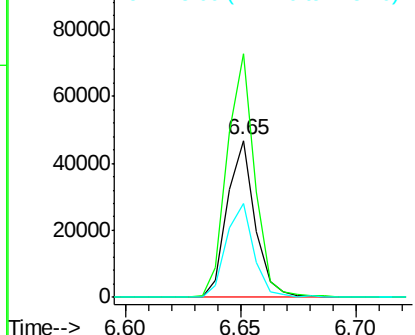
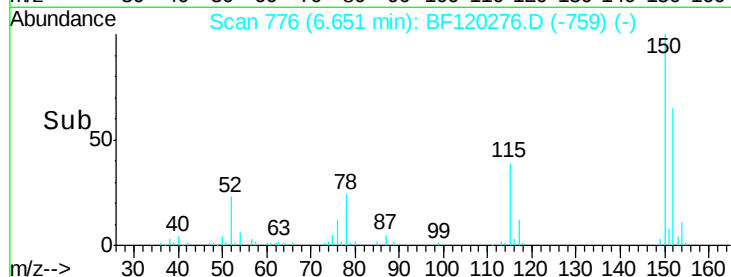
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.65 min Scan# 776
Delta R.T. 0.00 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 39002
Ion Ratio Lower Upper
152 100
150 154.9 124.5 186.7
115 59.8 49.6 74.4



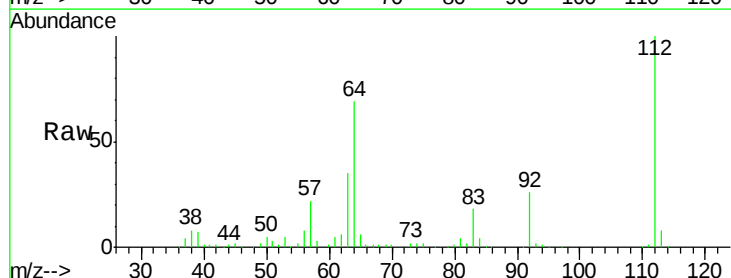
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



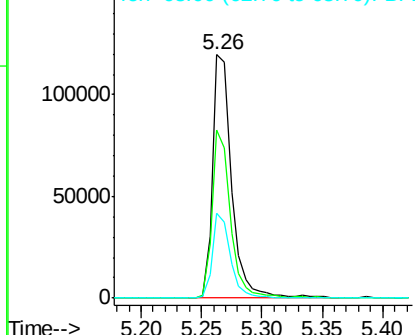
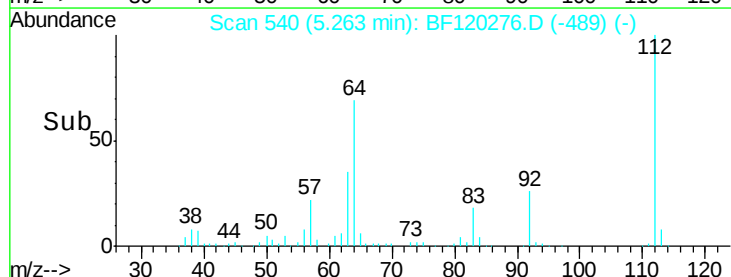
#5

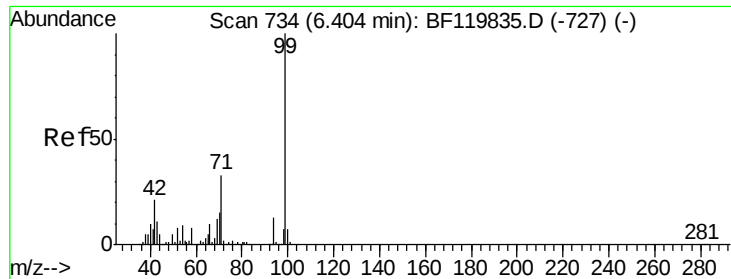
2-Fluorophenol
Concen: 57.545 ng
RT: 5.26 min Scan# 540
Delta R.T. 0.00 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

Tgt Ion:112 Resp: 129869
Ion Ratio Lower Upper
112 100
64 69.3 56.7 85.1
63 34.9 29.5 44.3



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: 51.262 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.01 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

Instrument :

BNA_F

ClientSampled :

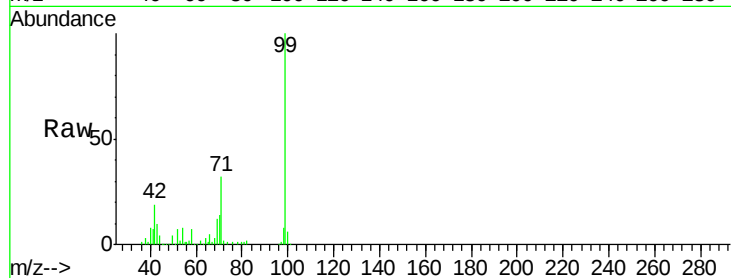
Tot Ion: 99 Resp: 149070

Ion Ratio Lower Upper

99 100

42 19.4 16.6 24.8

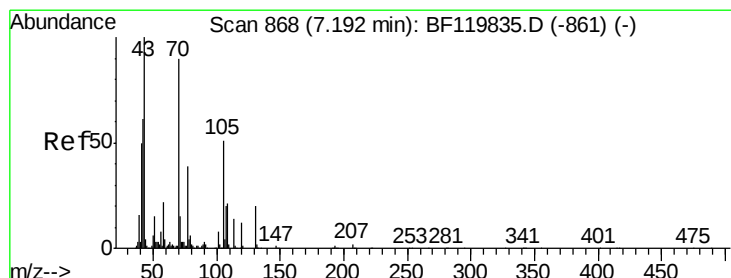
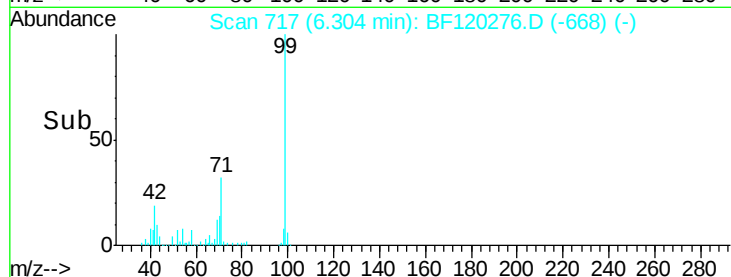
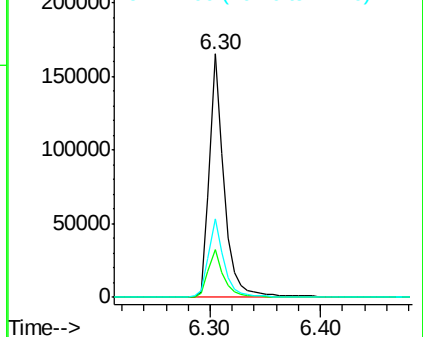
71 32.1 26.4 39.6



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: 5.194 ng

RT: 7.21 min Scan# 871

Delta R.T. 0.13 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

Tgt Ion: 70 Resp: 9712

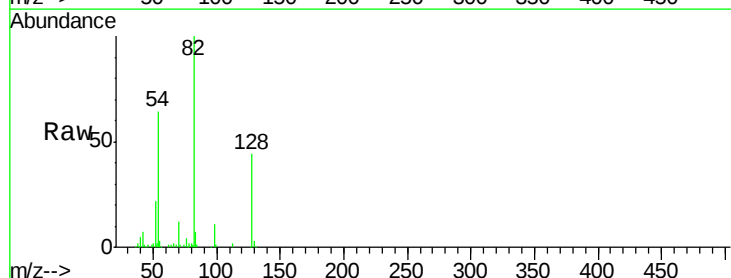
Ion Ratio Lower Upper

70 100

42 56.7 54.5 81.7

101 0.0 7.6 11.4#

130 3.8 17.6 26.4#

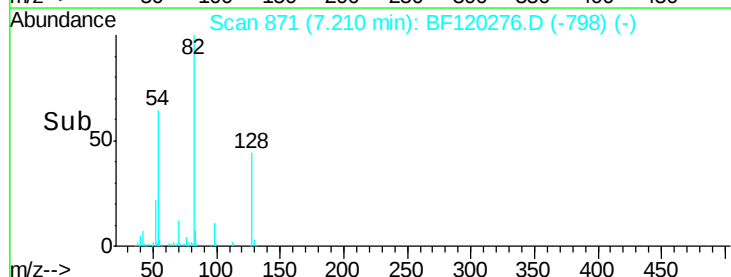
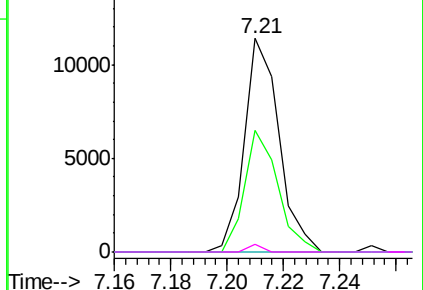


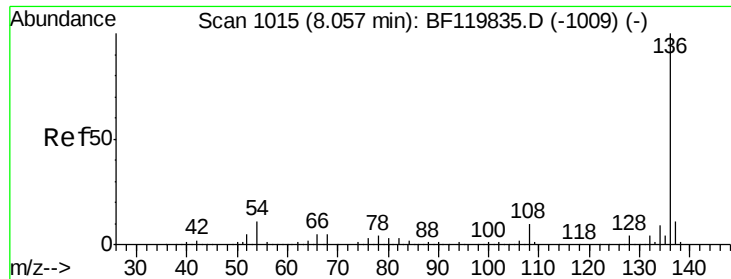
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

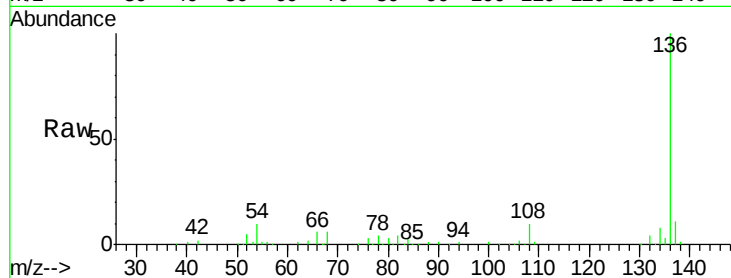




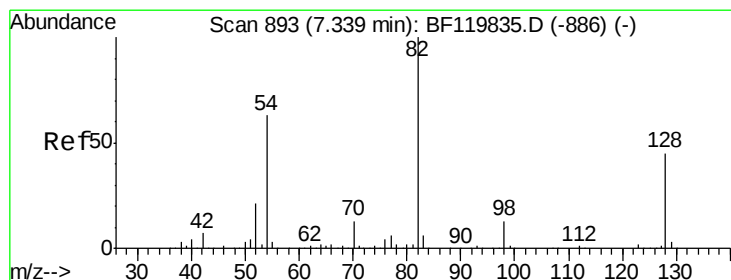
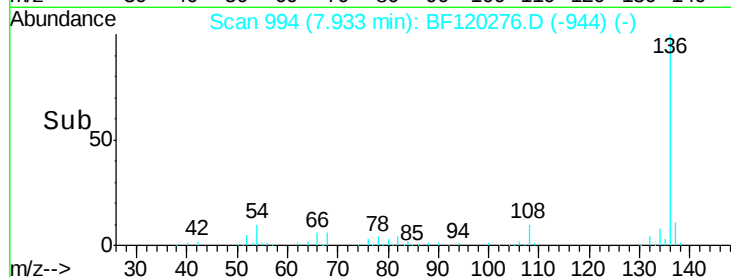
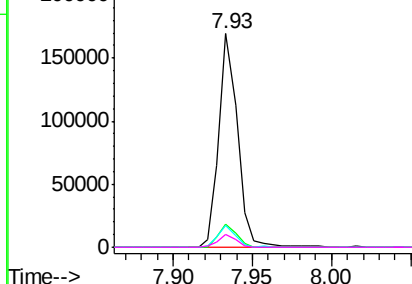
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.93 min Scan# 994
Delta R.T. -0.01 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	139869
Ion	Ratio	Lower Upper
136	100	
137	10.9	8.7 13.1
54	10.0	9.1 13.7
68	5.9	4.6 6.8

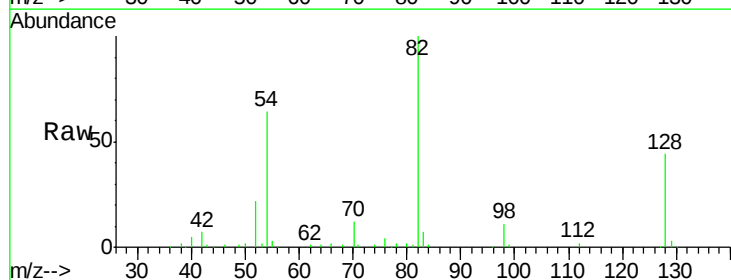


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

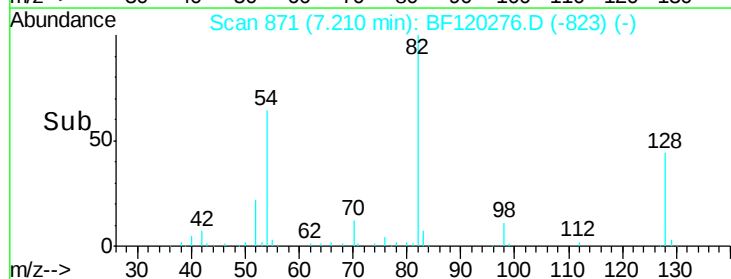
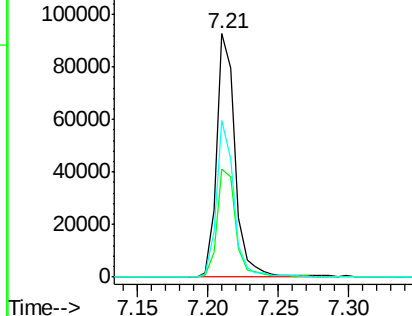


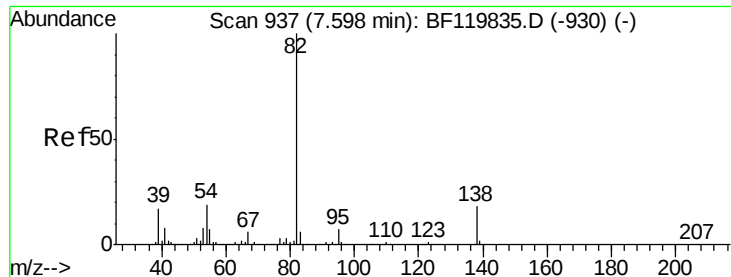
#23
Nitrobenzene-d5
Concen: 31.392 ng
RT: 7.21 min Scan# 871
Delta R.T. -0.02 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

Tgt Ion: 82	Resp:	84873
Ion	Ratio	Lower Upper
82	100	
128	44.4	36.3 54.5
54	64.2	50.6 75.8



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: 16.285 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.28 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

Instrument :

BNA_F

ClientSampleId :

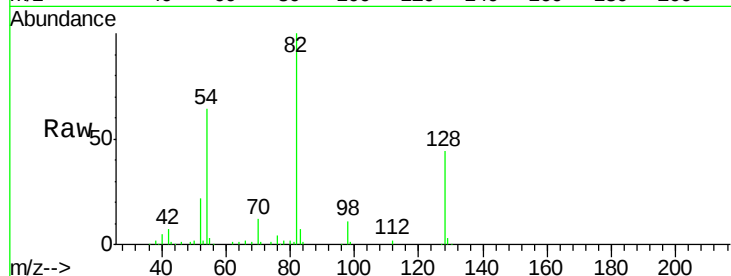
Tot Ion: 82 Resp: 84872

Ion Ratio Lower Upper

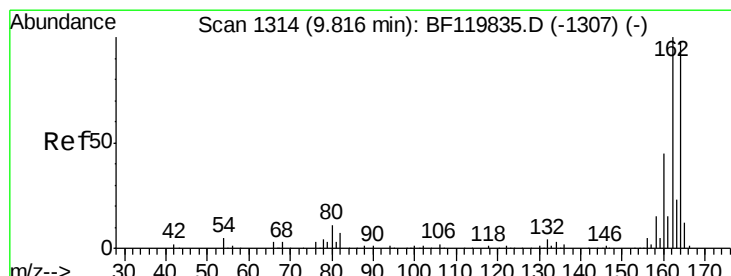
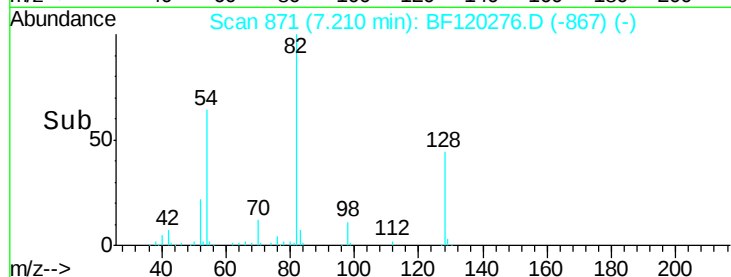
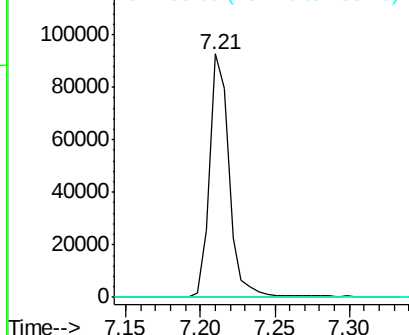
82 100

95 0.0 5.8 8.6#

138 0.0 14.6 21.8#



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: 9.69 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

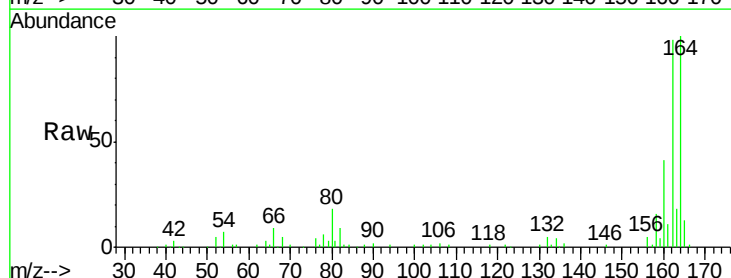
Tgt Ion: 164 Resp: 63517

Ion Ratio Lower Upper

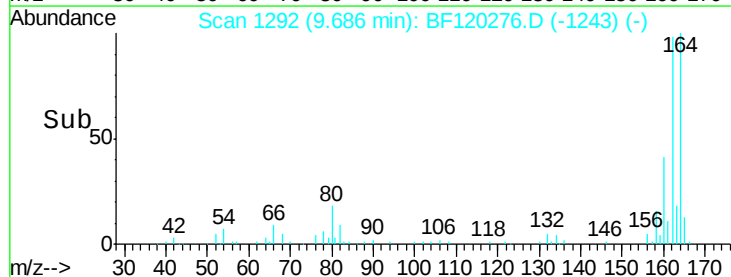
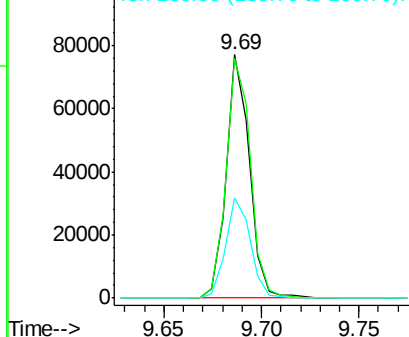
164 100

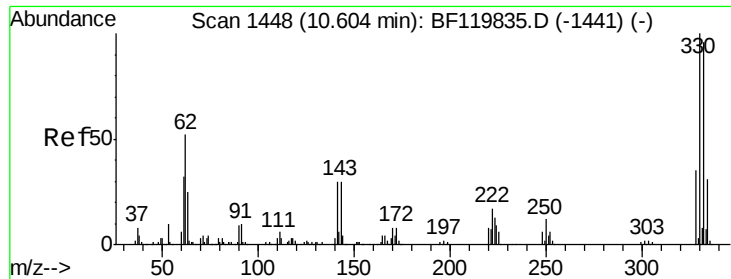
162 98.4 80.6 121.0

160 41.4 35.7 53.5



Abundance Ion 164.00 (163.70 to 164.70): BF1
Ion 162.00 (161.70 to 162.70): BF1
Ion 160.00 (159.70 to 160.70): BF1

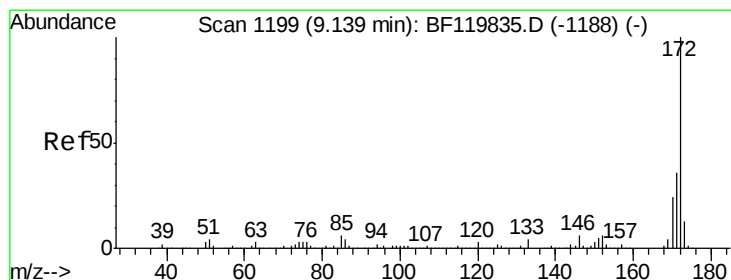
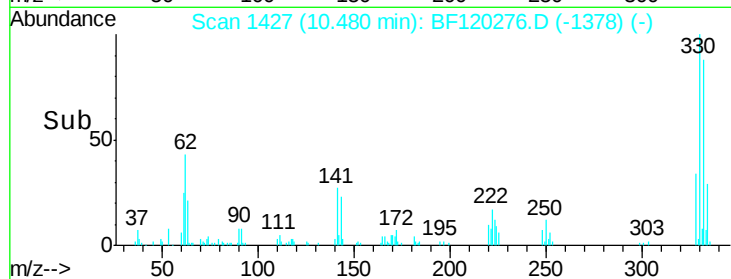
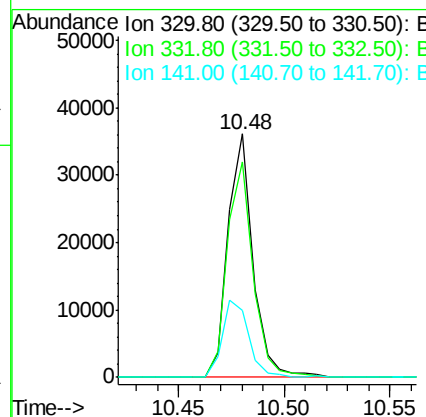
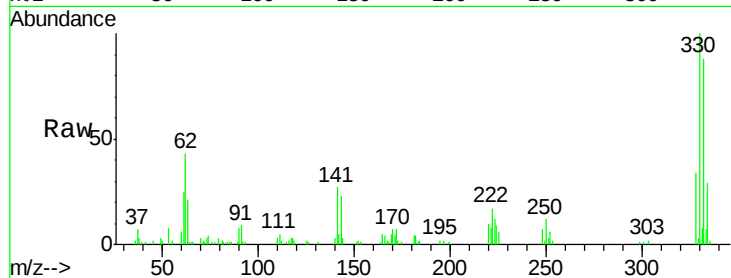




#42
 2,4,6-Tribromophenol
 Concen: 38.225 ng
 RT: 10.48 min Scan# 1427
 Delta R.T. -0.01 min
 Lab File: BF120276.D
 Acq: 1 May 2020 23:32

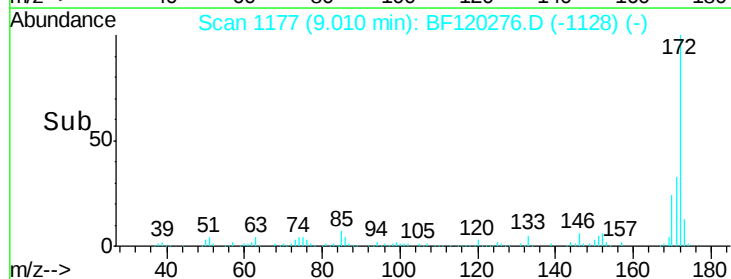
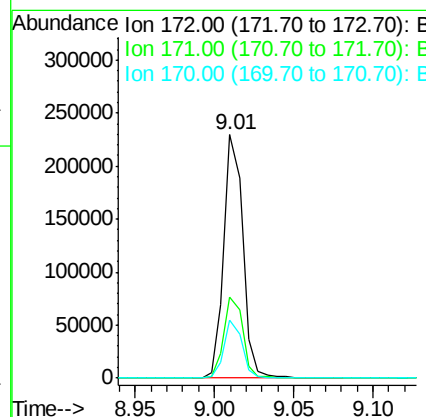
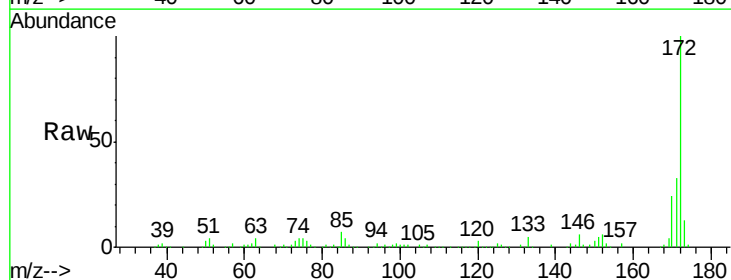
Instrument :
 BNA_F
 ClientSampled :

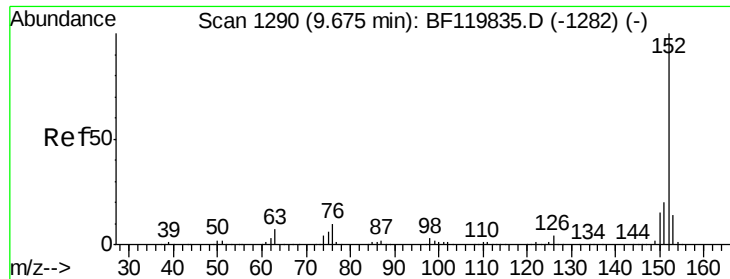
Tot Ion:330 Resp: 29726
 Ion Ratio Lower Upper
 330 100
 332 91.6 75.7 113.5
 141 33.3 25.4 38.0



#45
 2-Fluorobiphenyl
 Concen: 43.018 ng
 RT: 9.01 min Scan# 1177
 Delta R.T. -0.01 min
 Lab File: BF120276.D
 Acq: 1 May 2020 23:32

Tgt Ion:172 Resp: 192452
 Ion Ratio Lower Upper
 172 100
 171 33.4 29.6 44.4
 170 23.6 20.2 30.2





#49

Acenaphthylene

Concen: 5.267 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.01 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

Instrument :

BNA_F

ClientSampleId :

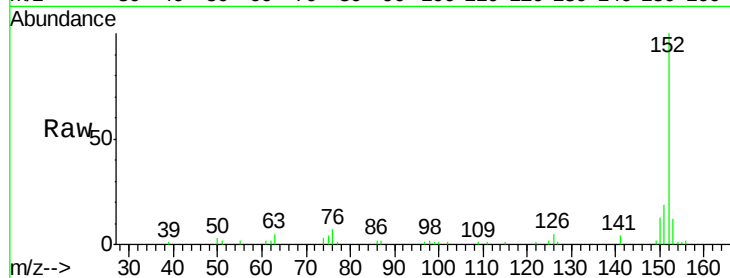
Tot Ion:152 Resp: 33079

Ion Ratio Lower Upper

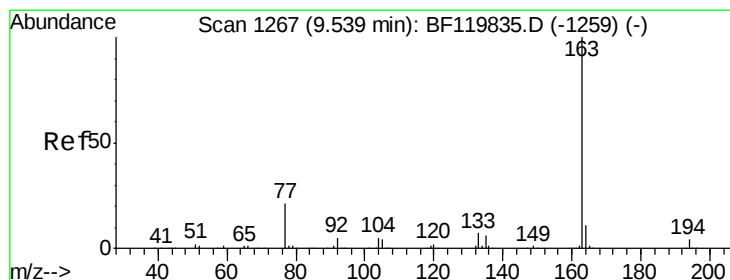
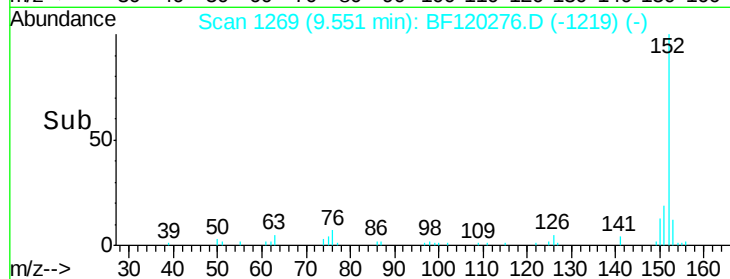
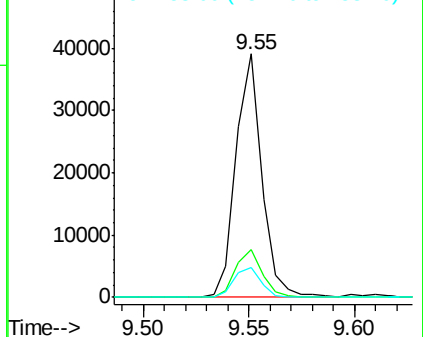
152 100

151 19.4 17.2 25.8

153 12.0 11.2 16.8



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



#50

Dimethylphthalate

Concen: 3.423 ng

RT: 9.41 min Scan# 1245

Delta R.T. -0.02 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

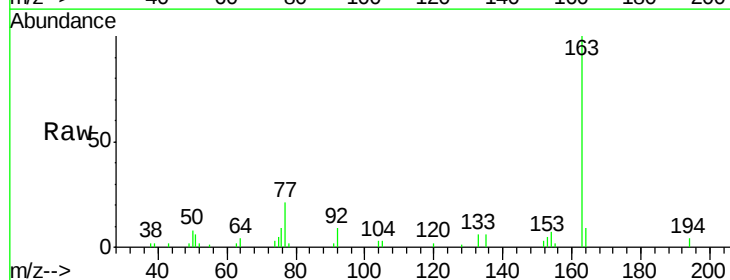
Tgt Ion:163 Resp: 16816

Ion Ratio Lower Upper

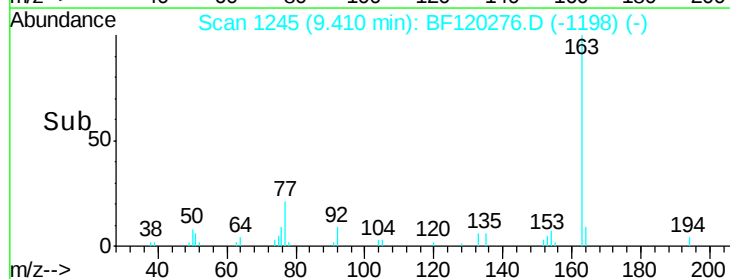
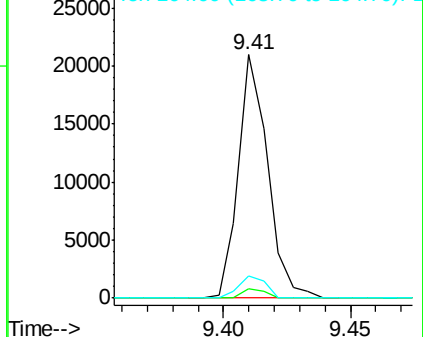
163 100

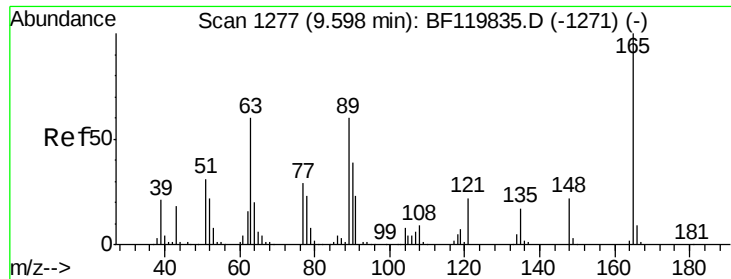
194 4.0 3.1 4.7

164 9.4 8.2 12.2



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

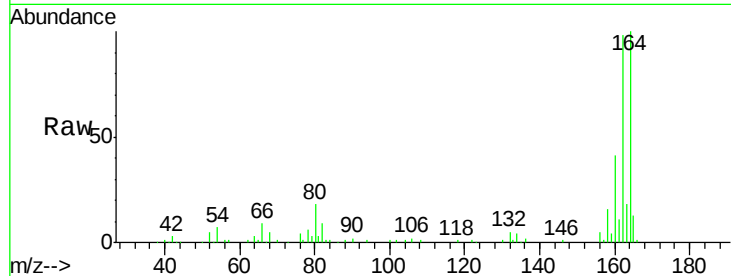




#51
 2,6-Dinitrotoluene
 Concen: 8.119 ng
 RT: 9.69 min Scan# 1292
 Delta R.T. 0.19 min
 Lab File: BF120276.D
 Acq: 1 May 2020 23:32

Instrument :
 BNA_F
 ClientSampleId :

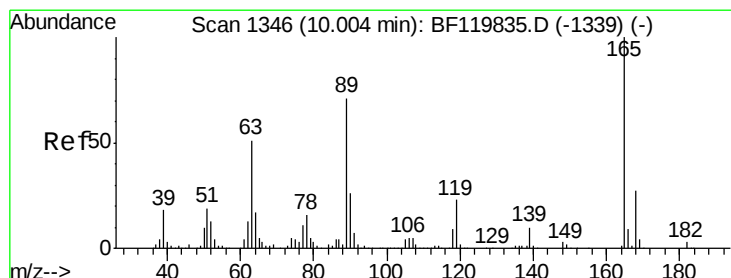
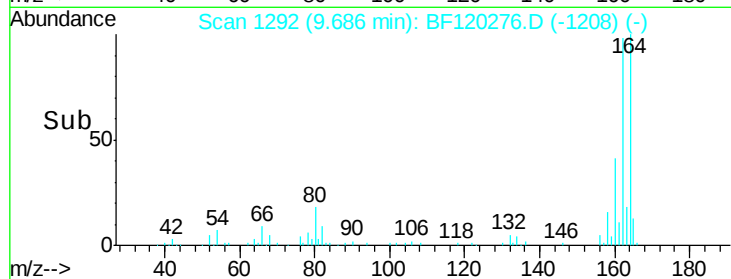
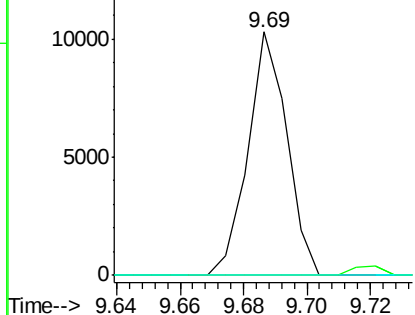
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	45.0	67.4#
89	0.0	41.5	62.3#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#57
 2,4-Dinitrotoluene
 Concen: 6.162 ng
 RT: 9.69 min Scan# 1292
 Delta R.T. -0.21 min
 Lab File: BF120276.D
 Acq: 1 May 2020 23:32

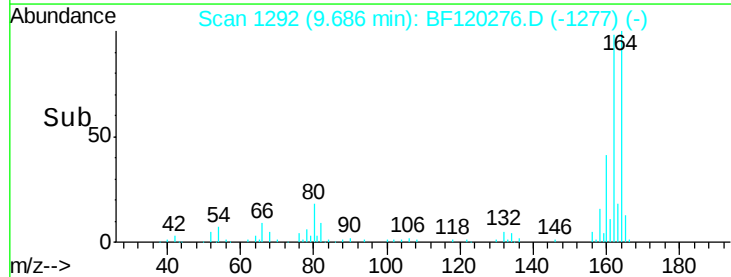
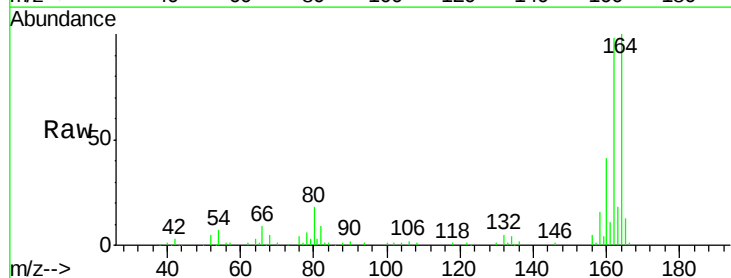
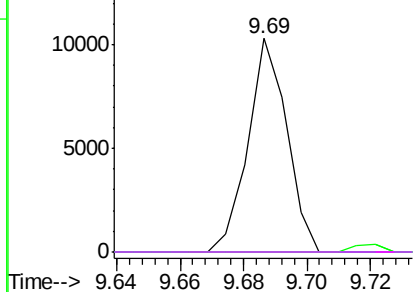
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	42.6	64.0#
89	0.0	61.0	91.4#
182	0.0	2.2	3.2#

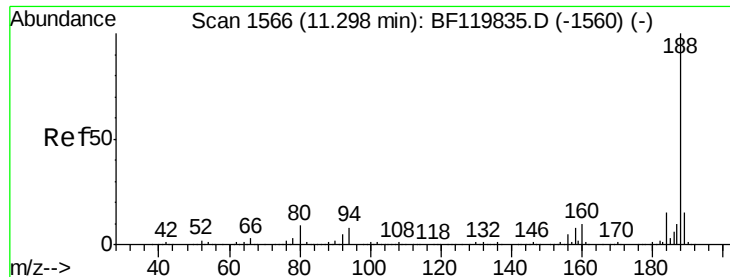
Abundance Ion 165.00 (164.70 to 165.70): E

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

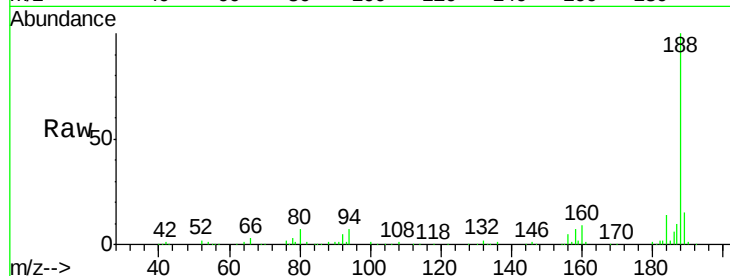




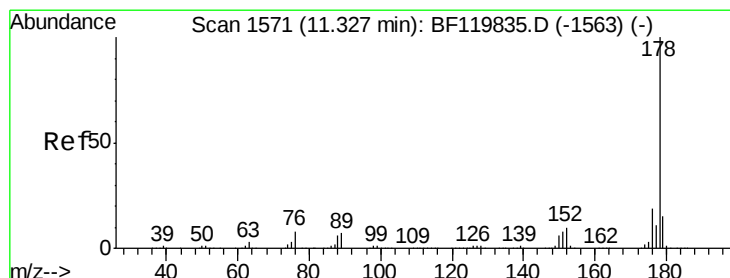
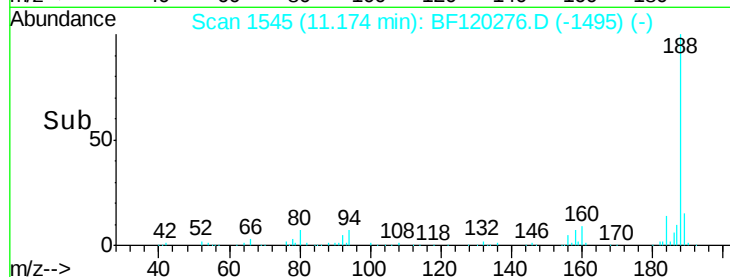
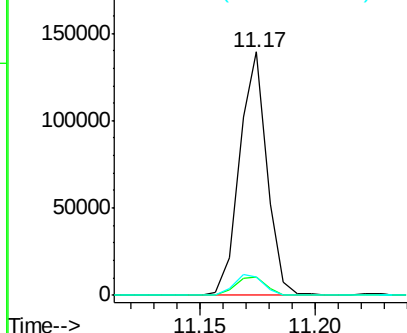
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.17 min Scan# 1545
Delta R.T. -0.01 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 115098
Ion Ratio Lower Upper
188 100
94 7.4 7.5 11.3#
80 7.5 9.0 13.4#

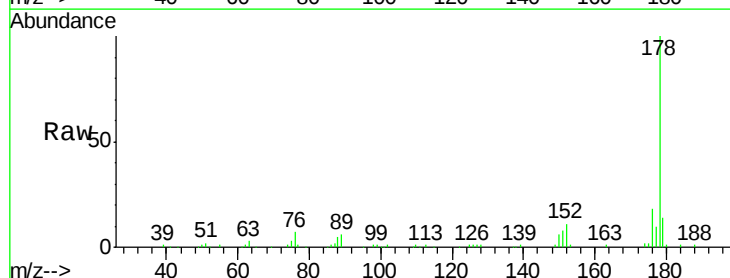


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

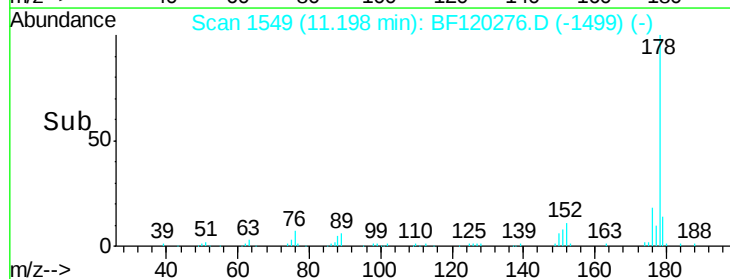
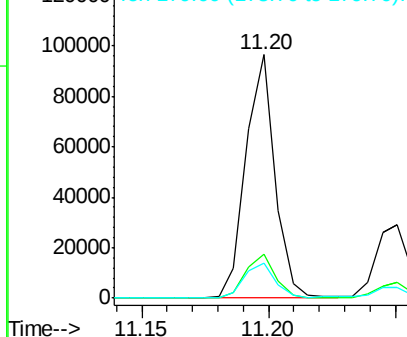


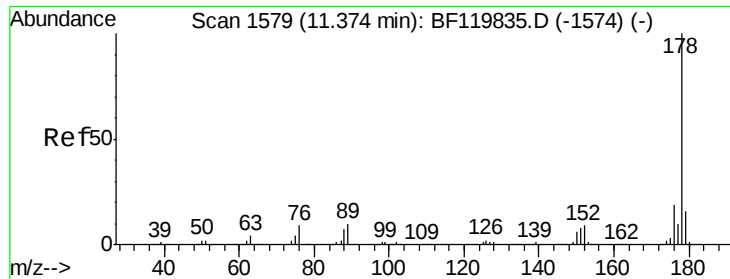
#71
Phenanthrene
Concen: 12.655 ng
RT: 11.20 min Scan# 1549
Delta R.T. -0.01 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

Tgt Ion:178 Resp: 77520
Ion Ratio Lower Upper
178 100
176 17.8 16.2 24.4
179 14.3 13.2 19.8



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

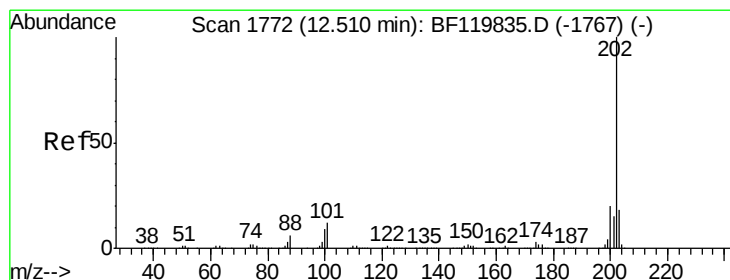
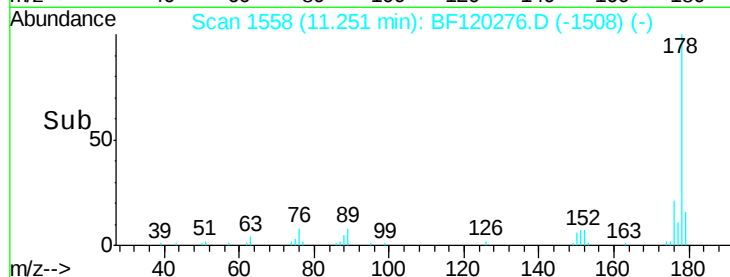
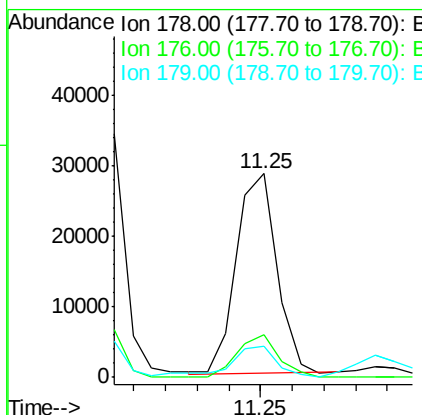
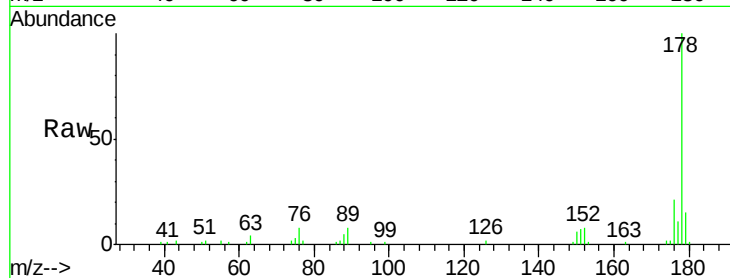




#72
 Anthracene
 Concen: 4.014 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: BF120276.D
 Acq: 1 May 2020 23:32

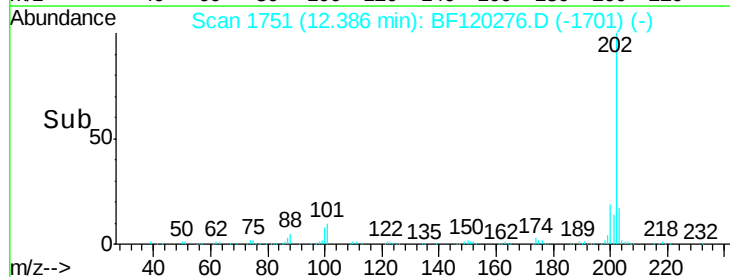
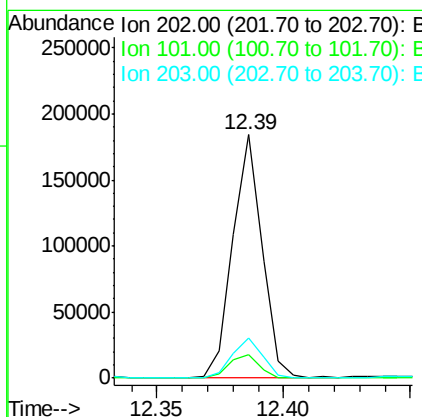
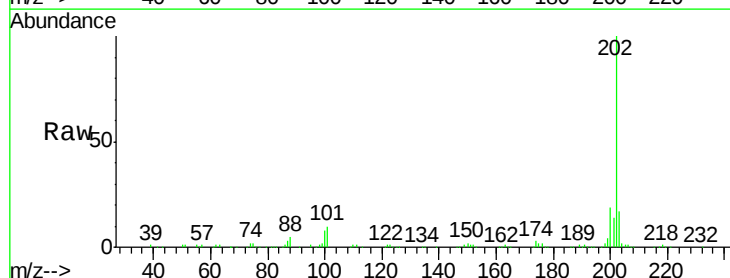
Instrument :
 BNA_F
 ClientSampleId :

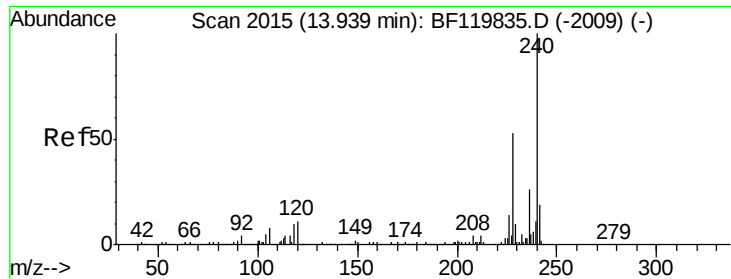
Tot Ion:178 Resp: 25118
 Ion Ratio Lower Upper
 178 100
 176 20.9 16.1 24.1
 179 15.4 13.0 19.4



#75
 Fluoranthene
 Concen: 22.496 ng
 RT: 12.39 min Scan# 1751
 Delta R.T. -0.01 min
 Lab File: BF120276.D
 Acq: 1 May 2020 23:32

Tgt Ion:202 Resp: 148690
 Ion Ratio Lower Upper
 202 100
 101 9.7 0.0 32.2
 203 16.6 0.0 38.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.81 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

Instrument :

BNA_F

ClientSampleId :

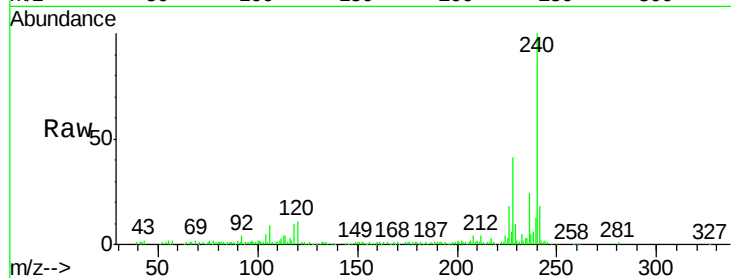
Tot Ion:240 Resp: 100547

Ion Ratio Lower Upper

240 100

120 11.4 10.6 15.8

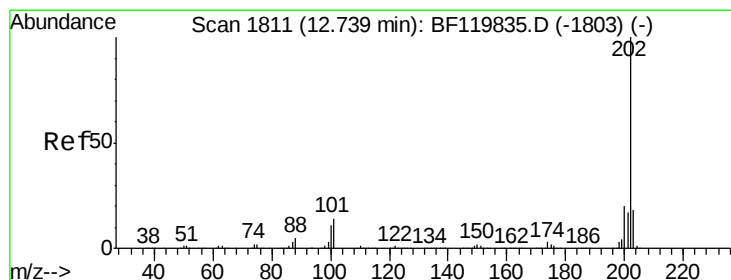
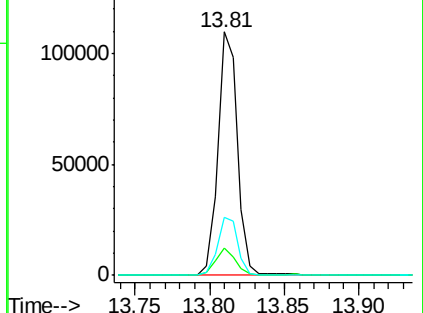
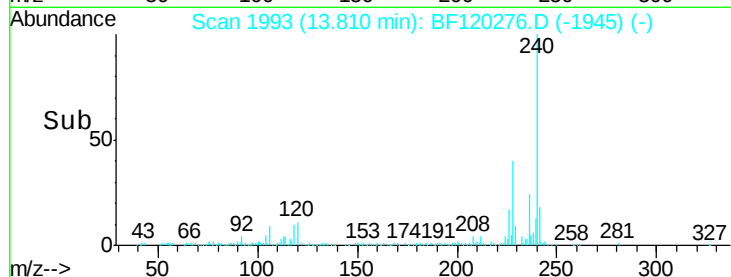
236 24.0 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 17.917 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

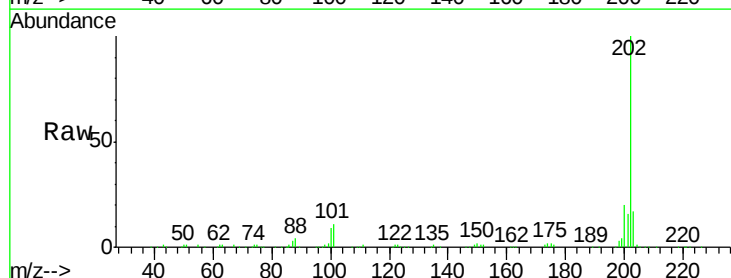
Tgt Ion:202 Resp: 151868

Ion Ratio Lower Upper

202 100

200 19.7 16.8 25.2

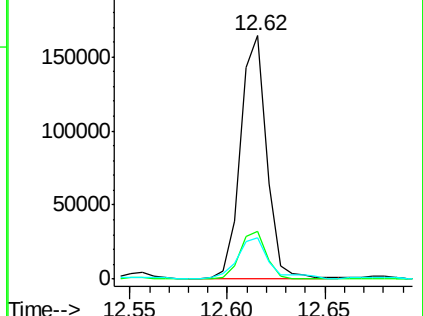
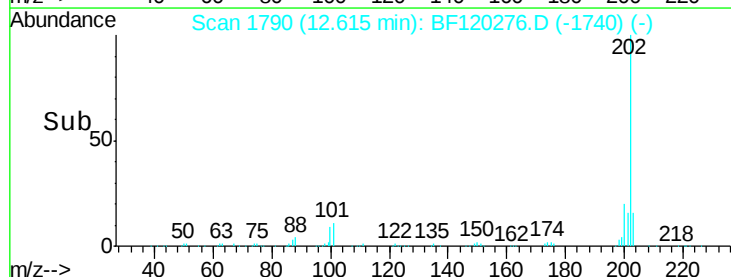
203 17.0 15.1 22.7

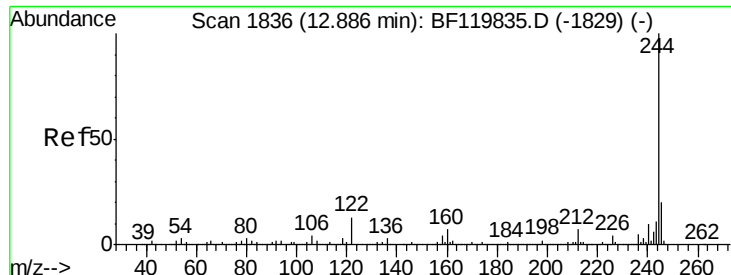


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 31.326 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.01 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

Instrument :

BNA_F

ClientSampled :

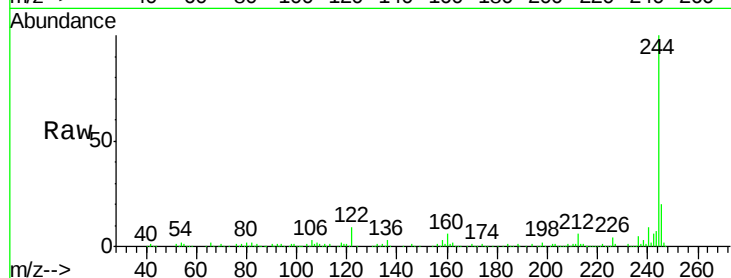
Tot Ion:244 Resp: 187188

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

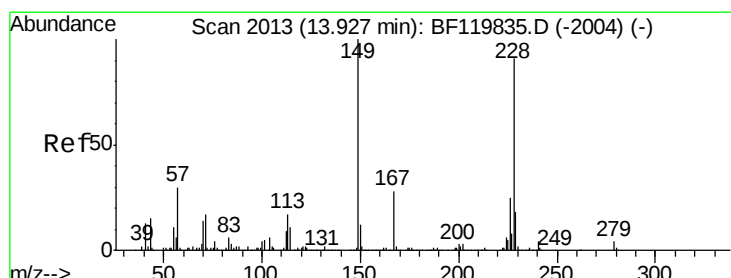
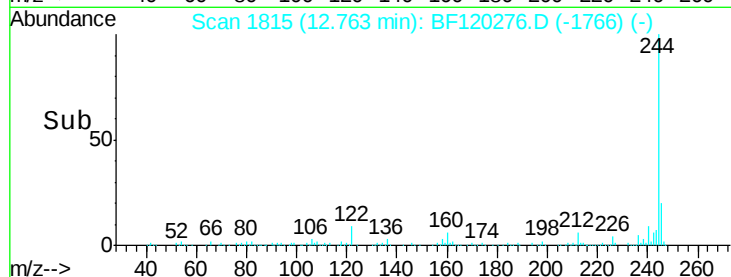
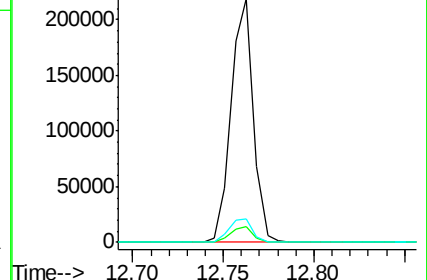
122 9.4 10.3 15.5#



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: 12.965 ng

RT: 13.84 min Scan# 1998

Delta R.T. 0.03 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

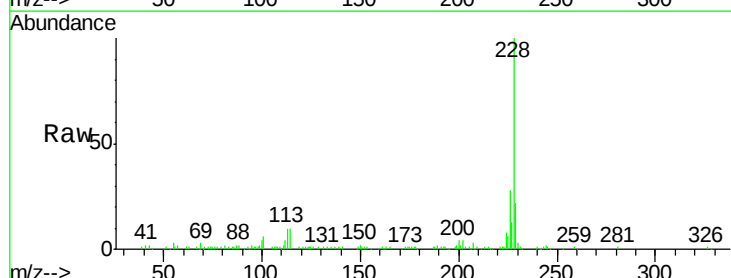
Tgt Ion:228 Resp: 85758

Ion Ratio Lower Upper

228 100

226 27.9 21.8 32.8

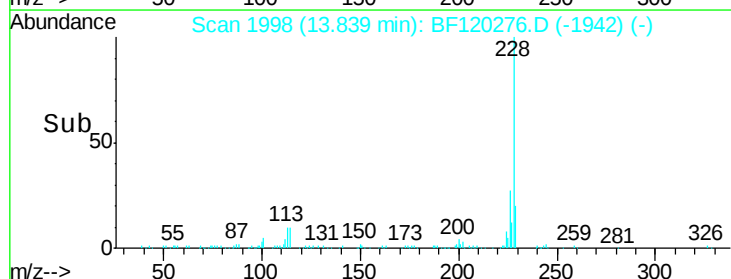
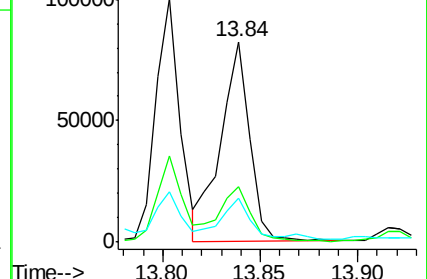
229 21.9 16.2 24.4

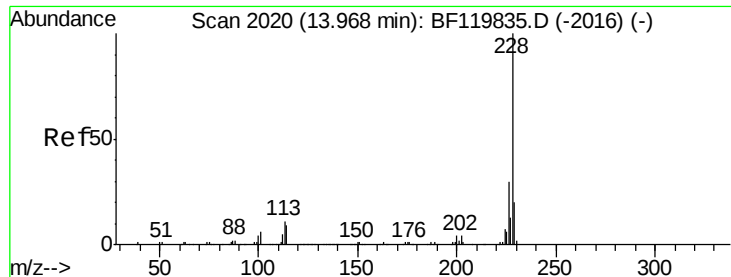


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 12.760 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

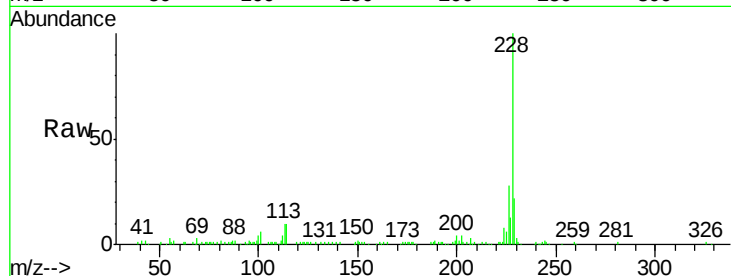
Instrument :

BNA_F

ClientSampled :

Tot Ion:228 Resp: 85758

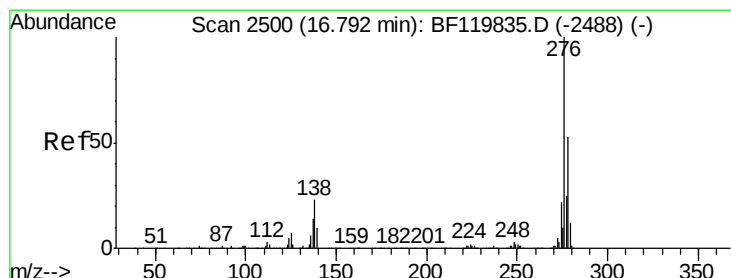
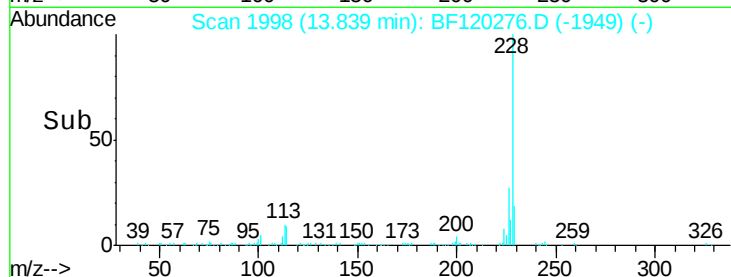
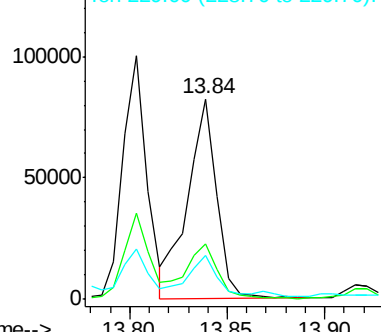
Ion	Ratio	Lower	Upper
228	100		
226	27.9	25.4	38.0
229	21.9	16.6	24.8



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: 7.040 ng

RT: 16.56 min Scan# 2461

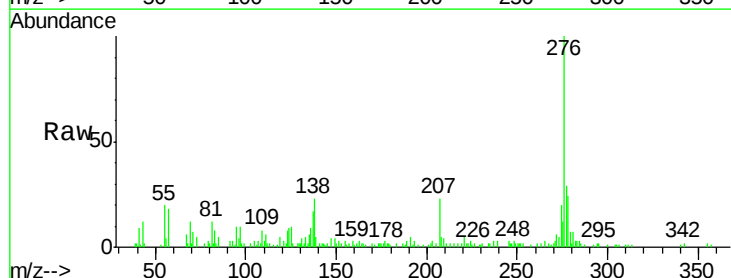
Delta R.T. -0.02 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

Tgt Ion:276 Resp: 41707

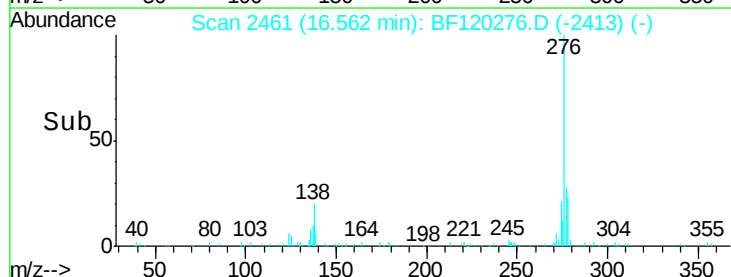
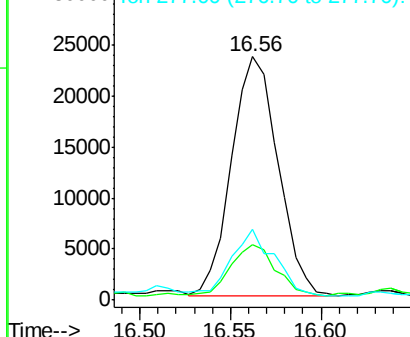
Ion	Ratio	Lower	Upper
276	100		
138	21.4	19.6	29.4
277	26.1	20.0	30.0

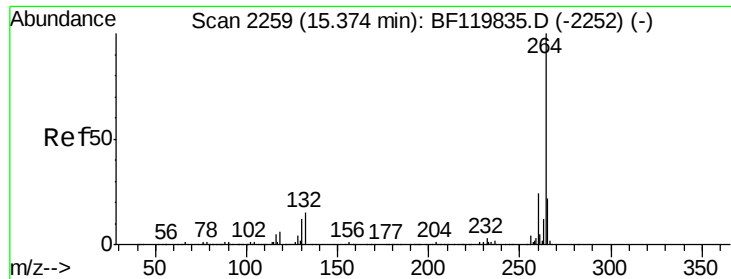


Abundance Ion 276.00 (275.70 to 276.70): E

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: 15.22 min Scan# 2232

Delta R.T. -0.01 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

Instrument :

BNA_F

ClientSampled :

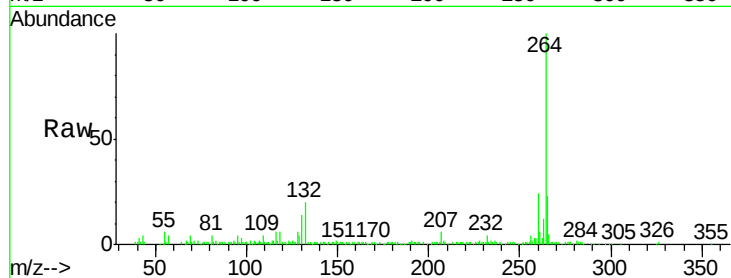
Tot Ion:264 Resp: 98048

Ion Ratio Lower Upper

264 100

260 23.9 18.7 28.1

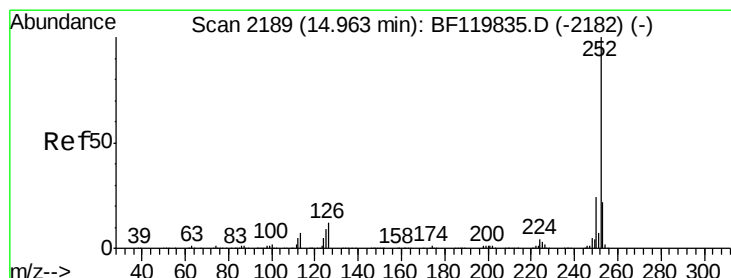
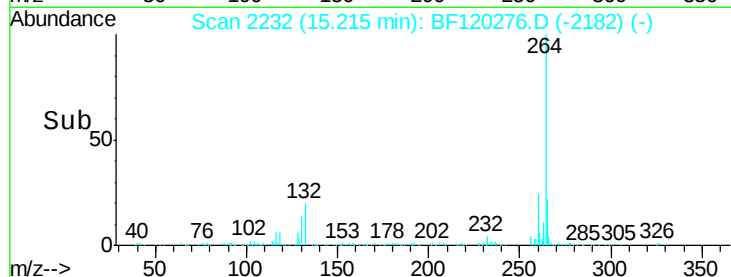
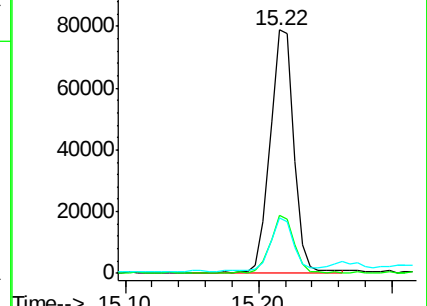
265 23.0 17.7 26.5



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: 18.663 ng

RT: 14.82 min Scan# 2165

Delta R.T. -0.01 min

Lab File: BF120276.D

Acq: 1 May 2020 23:32

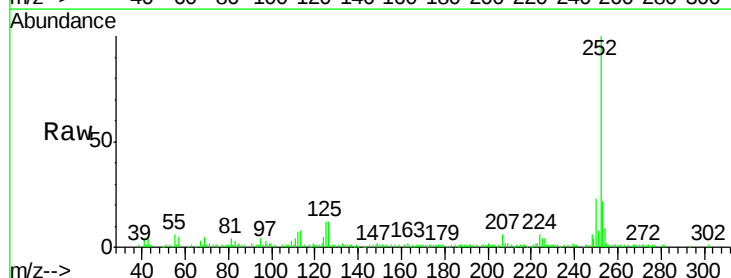
Tgt Ion:252 Resp: 131633

Ion Ratio Lower Upper

252 100

253 22.5 17.4 26.0

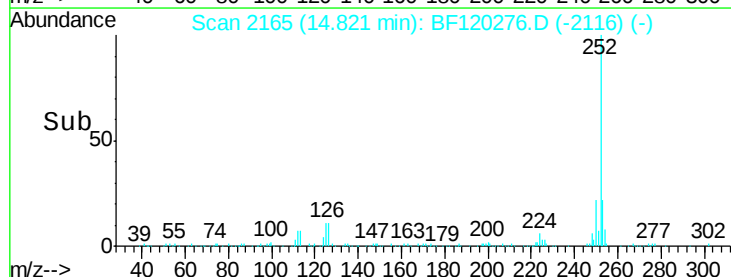
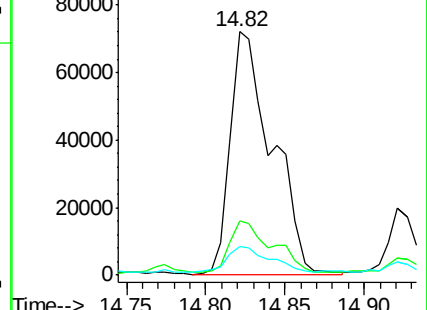
125 12.0 7.9 11.9#

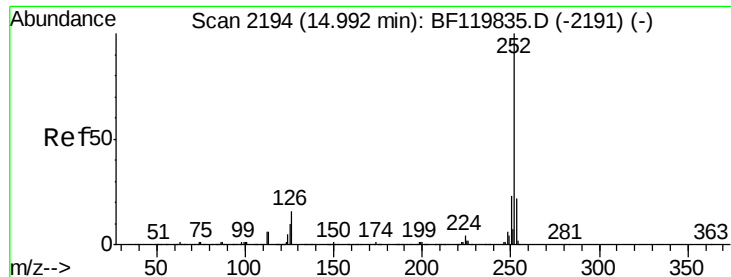


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

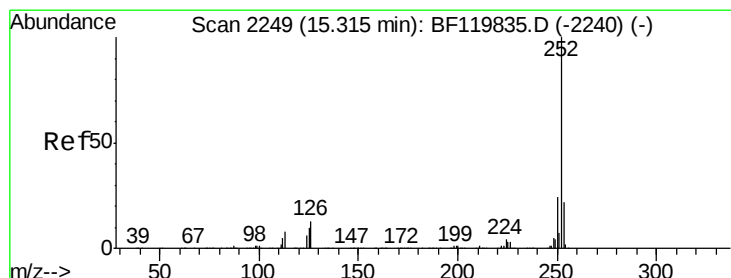
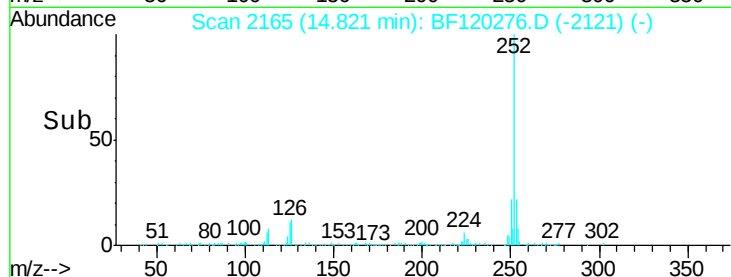
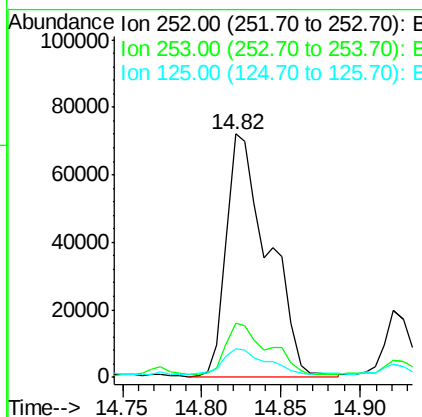
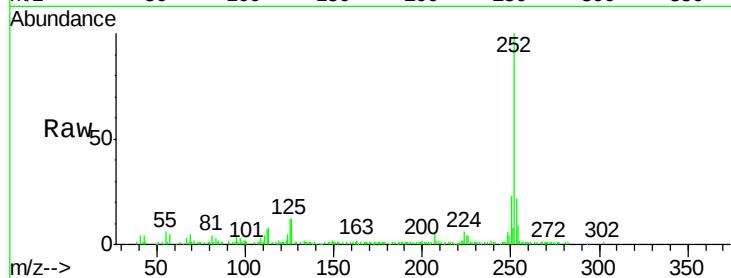




#89
Benzo(k)fluoranthene
Concen: 21.630 ng
RT: 14.82 min Scan# 2165
Delta R.T. -0.04 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

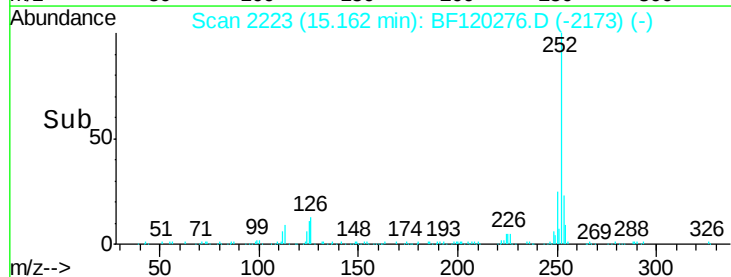
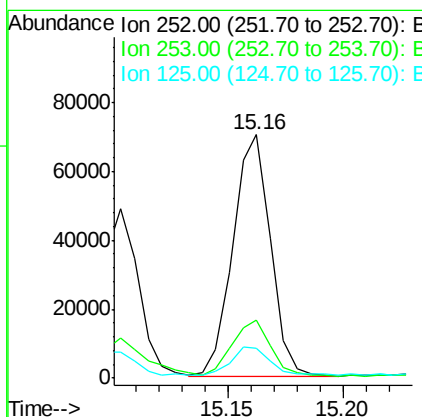
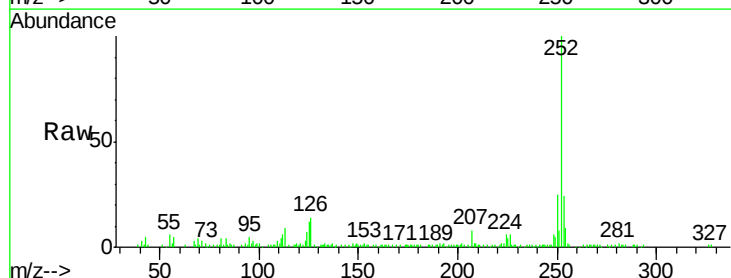
Instrument :
BNA_F
ClientSampled :

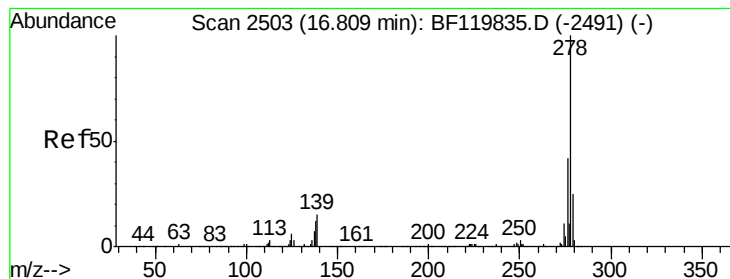
Tot Ion:252 Resp: 131633
Ion Ratio Lower Upper
252 100
253 22.5 17.8 26.6
125 12.0 8.4 12.6



#90
Benzo(a)pyrene
Concen: 13.540 ng
RT: 15.16 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

Tgt Ion:252 Resp: 80297
Ion Ratio Lower Upper
252 100
253 24.1 18.2 27.2
125 12.4 9.4 14.2

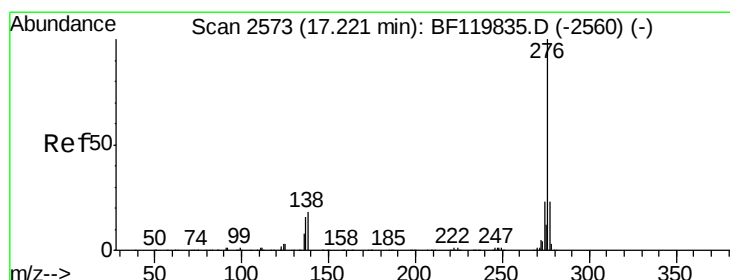
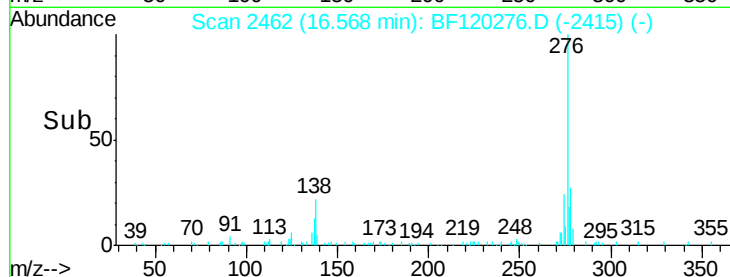
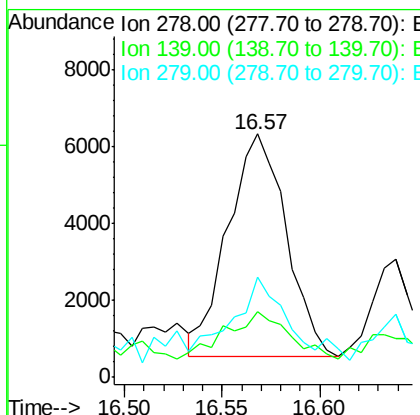
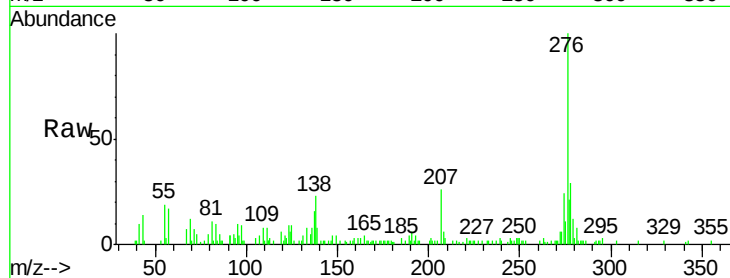




#91
Dibenzo(a,h)anthracene
Concen: 2.273 ng
RT: 16.57 min Scan# 2462
Delta R.T. -0.02 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 11938
Ion Ratio Lower Upper
278 100
139 26.8 12.6 19.0#
279 41.1 19.0 28.6#



#92
Benzo(g,h,i)perylene
Concen: 8.268 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.02 min
Lab File: BF120276.D
Acq: 1 May 2020 23:32

Tgt Ion:276 Resp: 42873
Ion Ratio Lower Upper
276 100
277 25.2 18.4 27.6
138 19.7 15.4 23.0

