

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\
 Data File : BF120335.D
 Acq On : 15 May 2020 21:35
 Operator : MA/SJ
 Sample : L2505-01 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 16 00:17:38 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 15 12:31:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.61	152	238791	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	1020457	20.00	ng	0.00
39) Acenaphthene-d10	9.65	164	460892	20.00	ng	0.00
64) Phenanthrene-d10	11.13	188	697223	20.00	ng	0.00
76) Chrysene-d12	13.77	240	436035	20.00	ng	0.00
87) Perylene-d12	15.16	264	379573	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	374682	30.53	ng	0.00
7) Phenol-d6	6.27	99	480606	30.97	ng	0.00
23) Nitrobenzene-d5	7.17	82	303537	20.37	ng	-0.02
42) 2,4,6-Tribromophenol	10.44	330	105784	28.15	ng	0.00
45) 2-Fluorobiphenyl	8.97	172	564928	25.18	ng	0.00
79) Terphenyl-d14	12.72	244	495139	25.09	ng	0.00

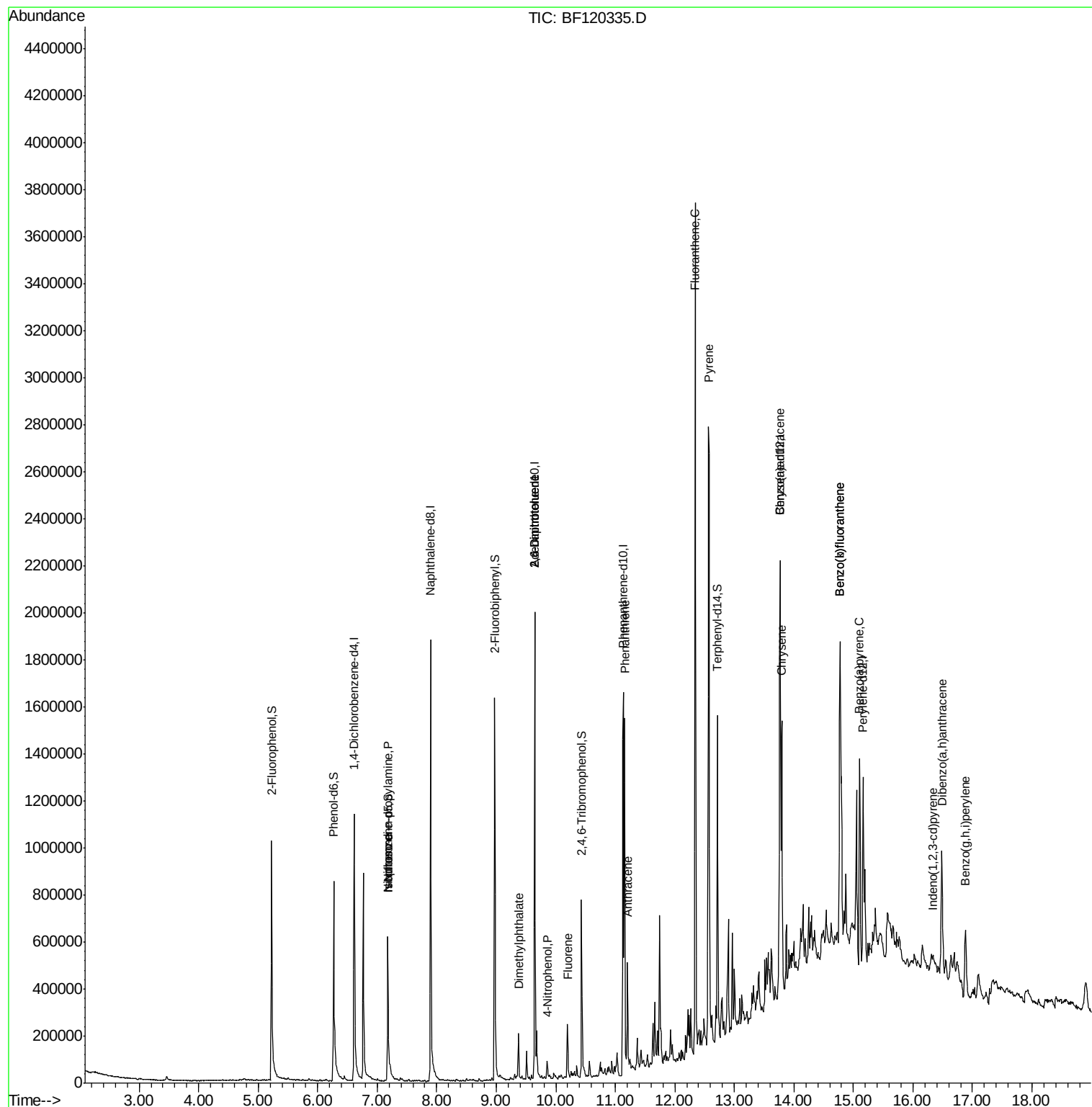
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.17	70	38759	3.812	ng	# 81
25) Isophorone	7.17	82	303535	9.788	ng	# 65
50) Dimethylphthalate	9.37	163	79885	2.742	ng	99
51) 2,6-Dinitrotoluene	9.65	165	59782	9.193	ng	# 23
56) 4-Nitrophenol	9.86	139	12652	3.036	ng	# 15
57) 2,4-Dinitrotoluene	9.65	165	59782	7.837	ng	# 16
58) Fluorene	10.20	166	80706	3.318	ng	95
71) Phenanthrene	11.16	178	571373	19.503	ng	98
72) Anthracene	11.20	178	246128	7.847	ng	97
75) Fluoranthene	12.35	202	1577317	50.230	ng	97
78) Pyrene	12.57	202	1285501	41.354	ng	98
81) Benzo(a)anthracene	13.76	228	601529	26.156	ng	98
83) Chrysene	13.80	228	537626	21.770	ng	96
86) Indeno(1,2,3-cd)pyrene	16.34	276	63600	2.838	ng	94
88) Benzo(b)fluoranthene	14.77	252	964101	46.509	ng	99
89) Benzo(k)fluoranthene	14.77	252	964101	53.682	ng	99
90) Benzo(a)pyrene	15.10	252	432061	23.241	ng	97
91) Dibenzo(a,h)anthracene	16.49	278	85259	5.177	ng	# 78
92) Benzo(a,h,i)perylene	16.88	276	256574	15.449	ng	96

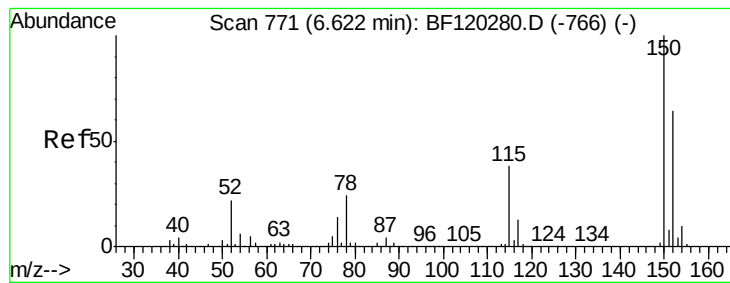
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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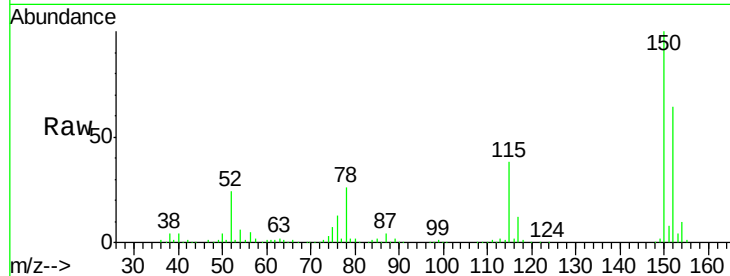


#1

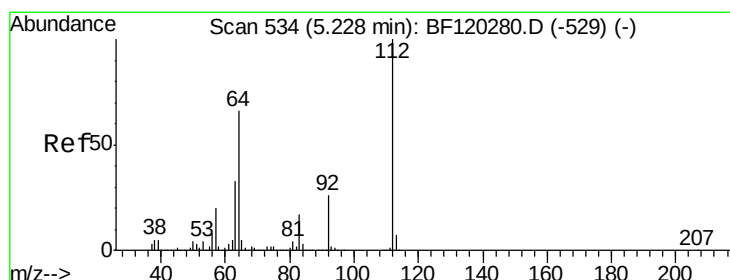
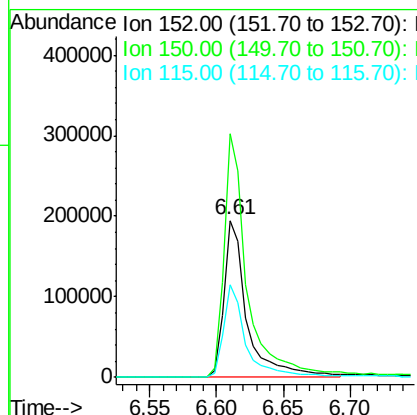
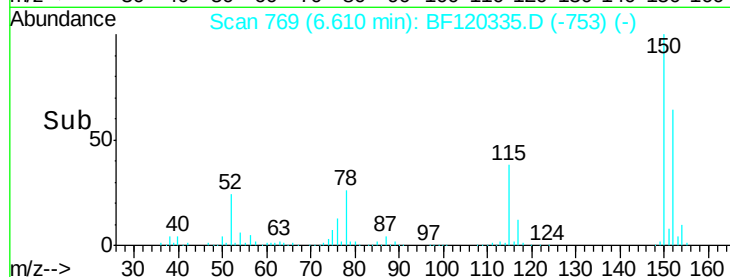
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.61 min Scan# 769
Delta R.T. -0.01 min
Lab File: BF120335.D
Acq: 15 May 2020 21:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 238791
Ion Ratio Lower Upper
152 100
150 155.1 126.2 189.2
115 59.3 47.9 71.9



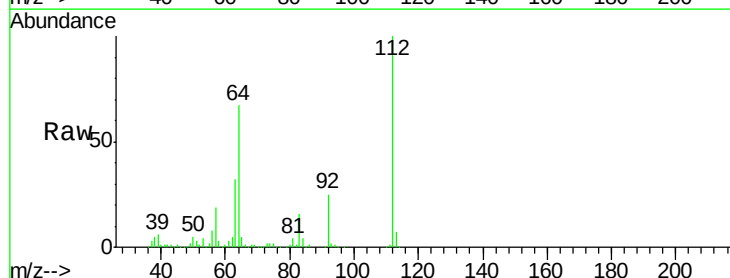
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



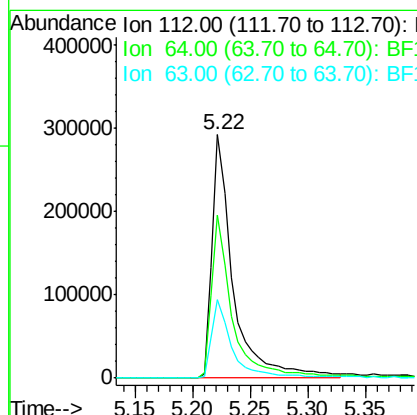
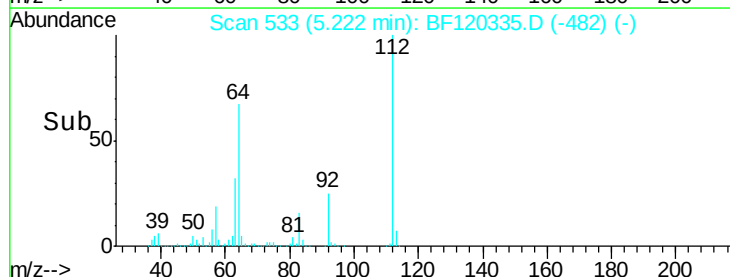
#5

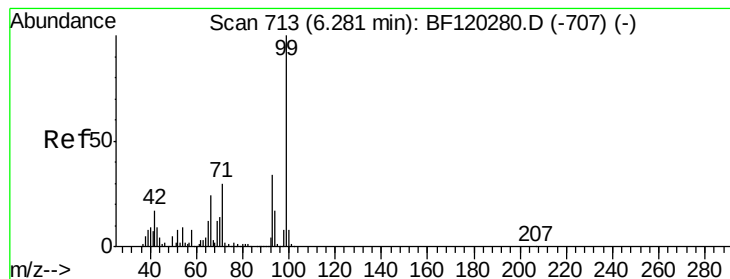
2-Fluorophenol
Concen: 30.530 ng
RT: 5.22 min Scan# 533
Delta R.T. -0.00 min
Lab File: BF120335.D
Acq: 15 May 2020 21:35

Tgt Ion:112 Resp: 374682
Ion Ratio Lower Upper
112 100
64 66.9 52.7 79.1
63 32.2 26.2 39.4



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: 30.967 ng

RT: 6.27 min Scan# 711

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

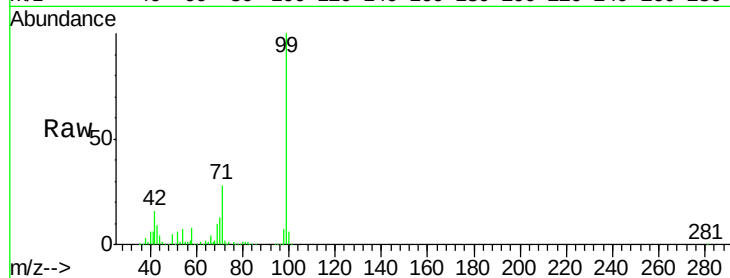
Tot Ion: 99 Resp: 480606

Ion Ratio Lower Upper

99 100

42 16.5 13.6 20.4

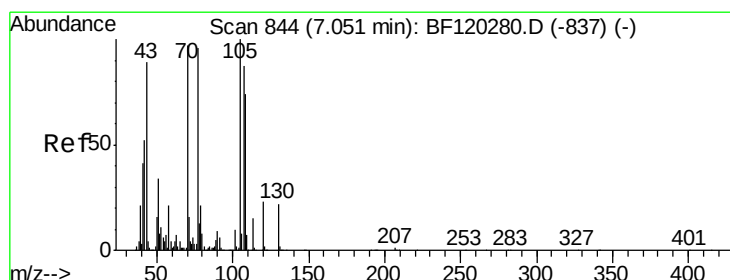
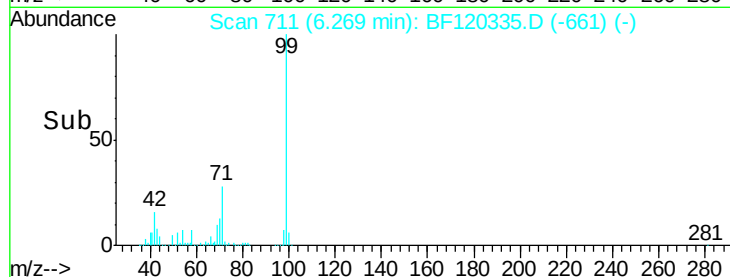
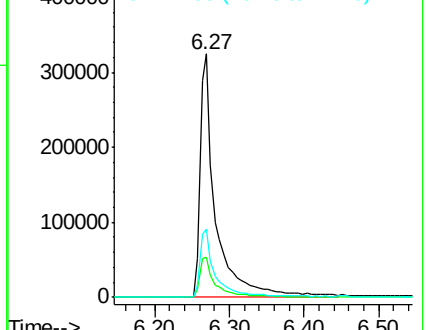
71 28.2 24.2 36.4



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: 3.812 ng

RT: 7.17 min Scan# 865

Delta R.T. 0.13 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Tgt Ion: 70 Resp: 38759

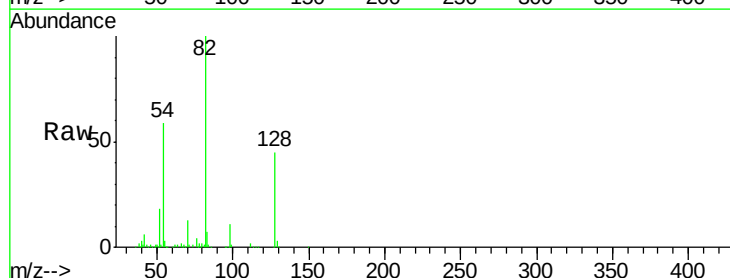
Ion Ratio Lower Upper

70 100

42 49.2 43.4 65.0

101 0.0 7.8 11.8#

130 2.1 18.2 27.4#

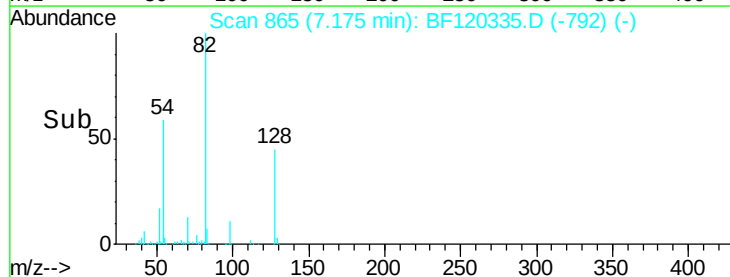
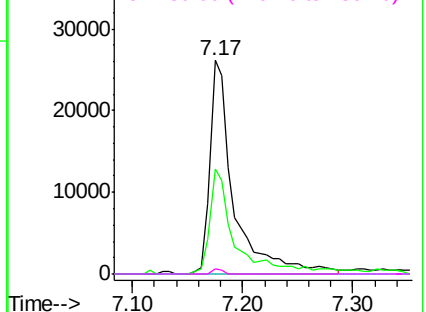


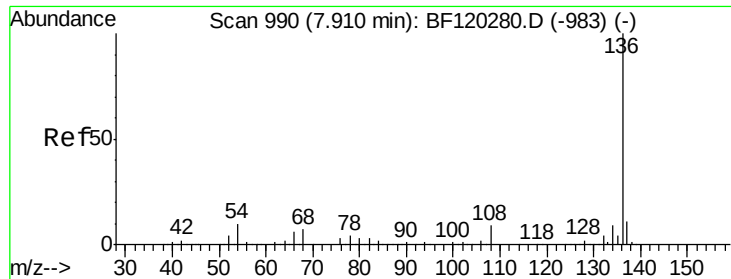
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.90 min Scan# 988

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 1020457

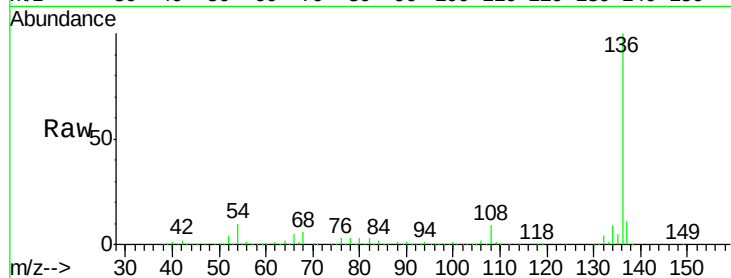
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 9.6 7.9 11.9

68 6.2 5.4 8.2

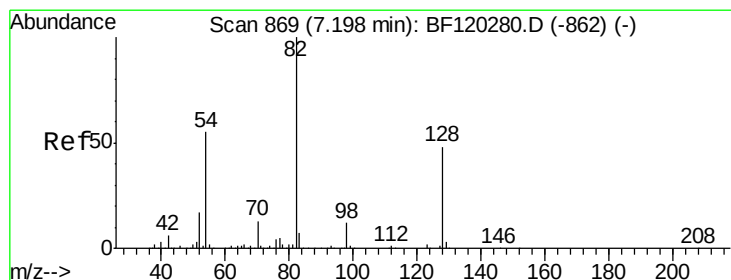
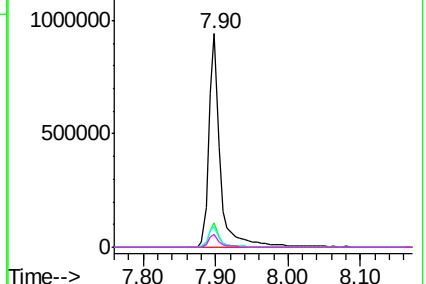
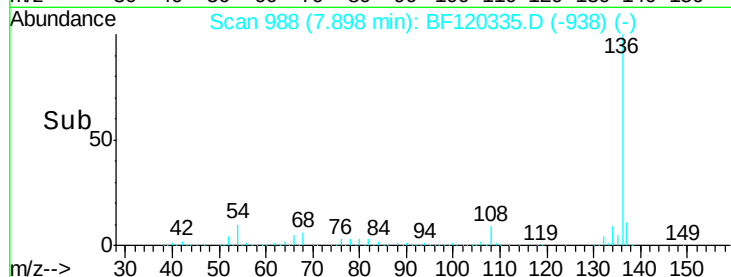


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 20.366 ng

RT: 7.17 min Scan# 865

Delta R.T. -0.02 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

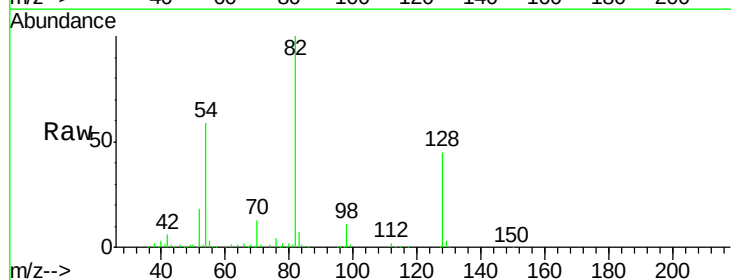
Tgt Ion: 82 Resp: 303537

Ion Ratio Lower Upper

82 100

128 44.8 38.3 57.5

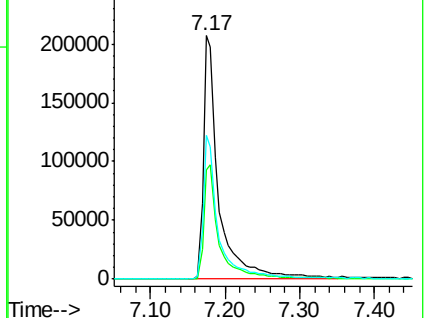
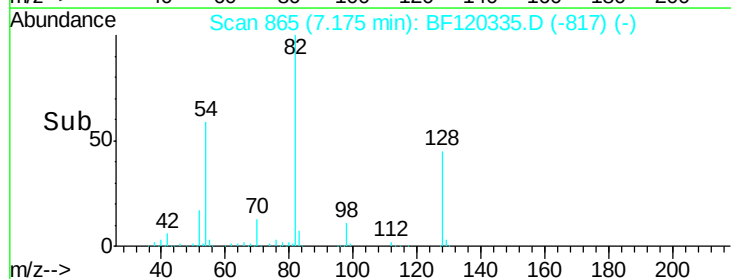
54 59.1 43.9 65.9

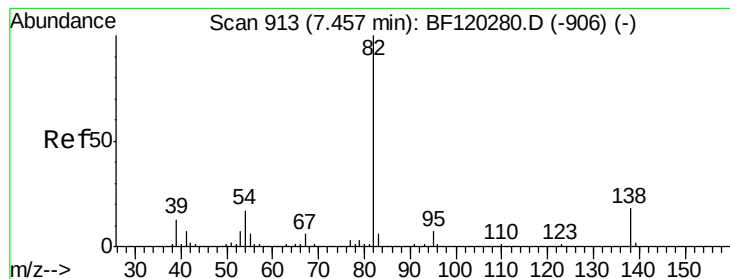


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 9.788 ng

RT: 7.17 min Scan# 865

Delta R.T. -0.28 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

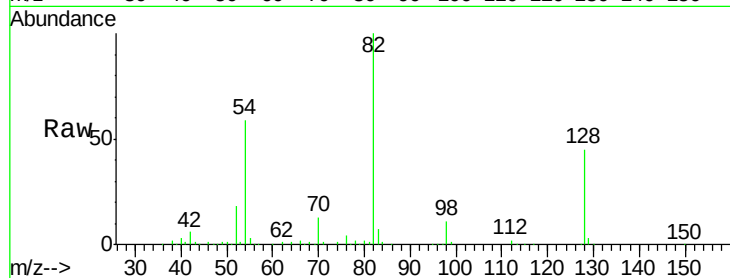
Tot Ion: 82 Resp: 303535

Ion Ratio Lower Upper

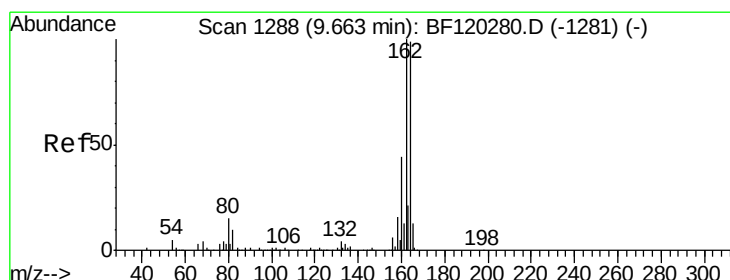
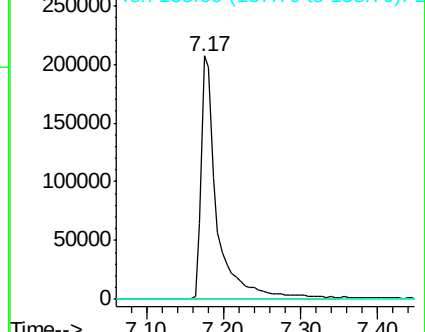
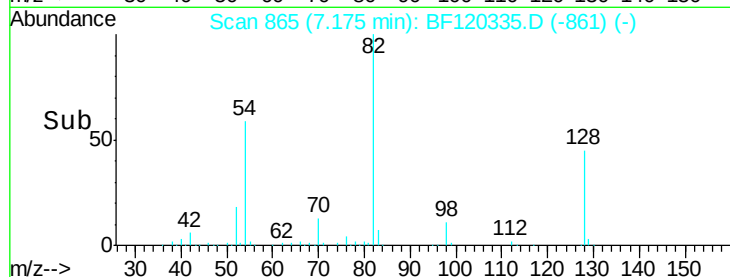
82 100

95 0.3 5.4 8.0#

138 0.0 14.7 22.1#



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: 9.65 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

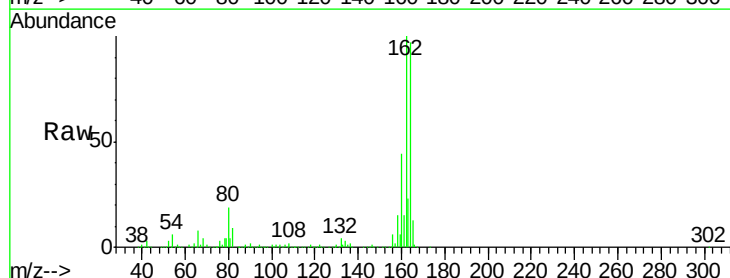
Tgt Ion: 164 Resp: 460892

Ion Ratio Lower Upper

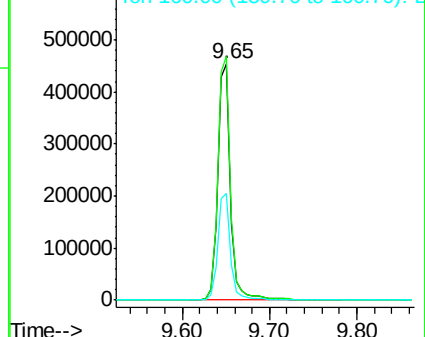
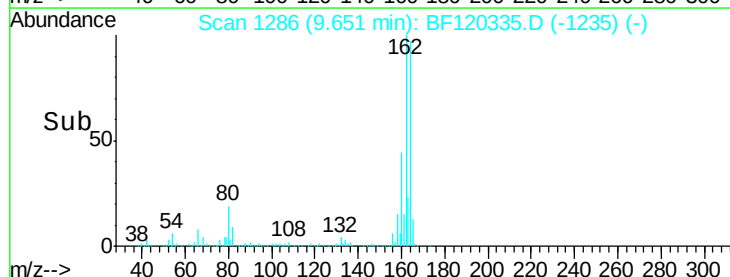
164 100

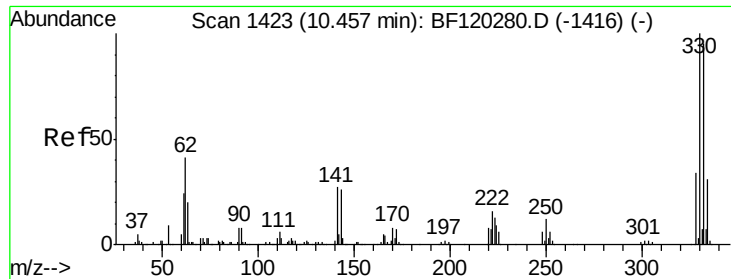
162 102.9 81.2 121.8

160 45.2 35.8 53.6



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

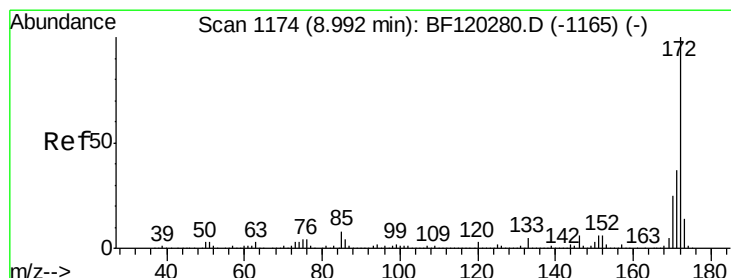
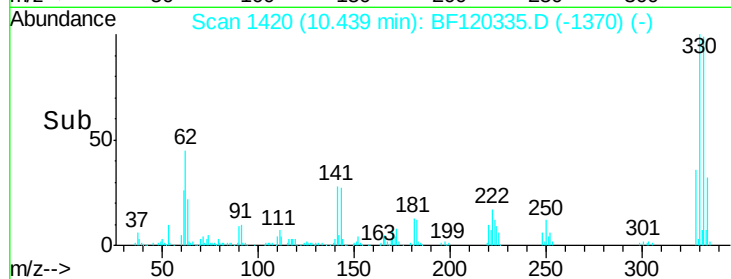
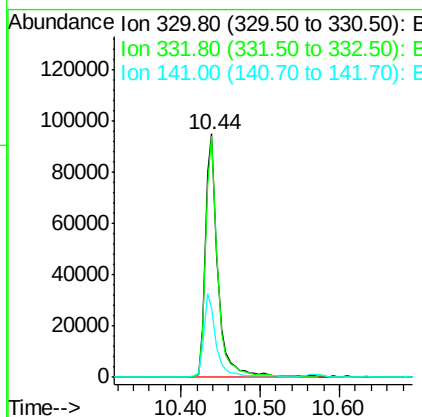
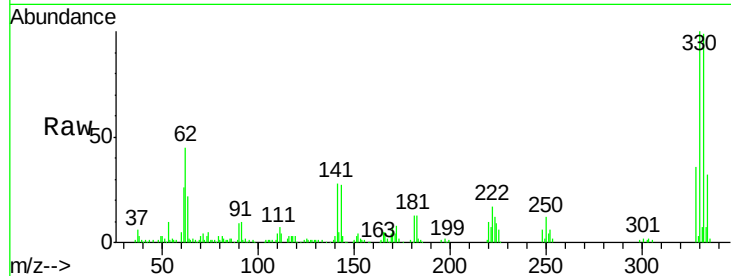




#42
 2,4,6-Tribromophenol
 Concen: 28.150 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF120335.D
 Acq: 15 May 2020 21:35

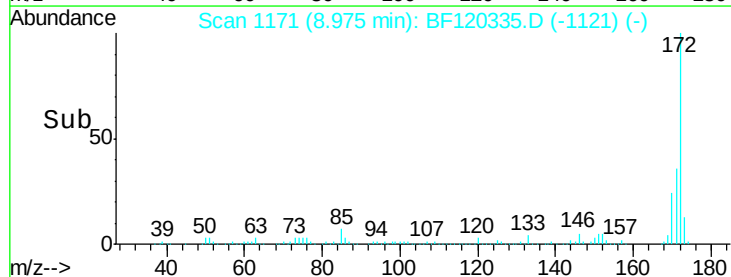
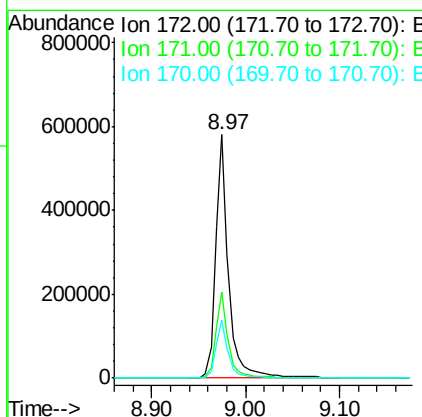
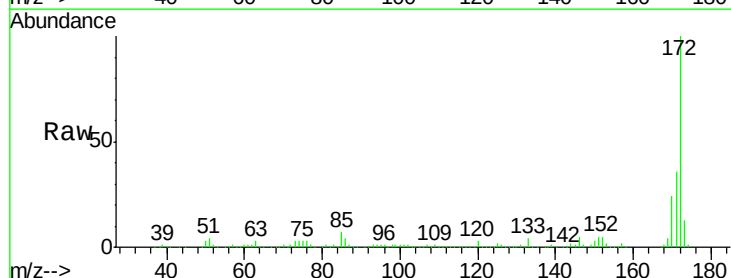
Instrument :
 BNA_F
 ClientSampleId :

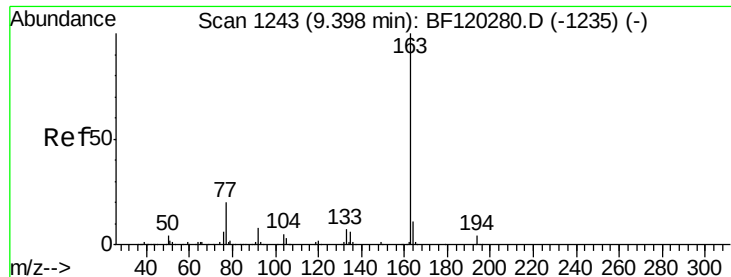
Tot Ion	330	Resp	105784
Ion Ratio	100		
Lower	76.5		
Upper	114.7		
332	95.6		
141	34.6		
	25.4		
	38.0		



#45
 2-Fluorobiphenyl
 Concen: 25.182 ng
 RT: 8.97 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: BF120335.D
 Acq: 15 May 2020 21:35

Tgt Ion	172	Resp	564928
Ion Ratio	100		
Lower	29.7		
Upper	44.5		
171	35.6		
170	23.9		
	19.9		
	29.9		

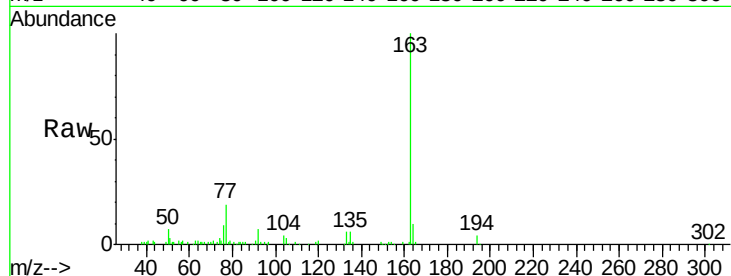




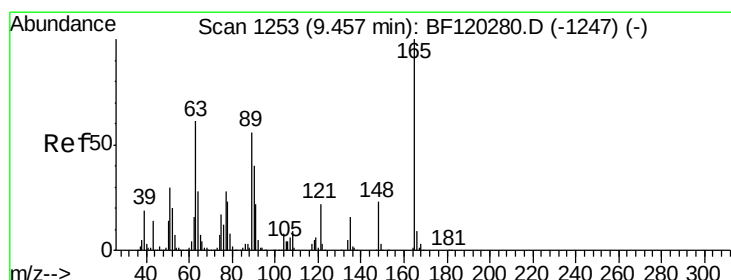
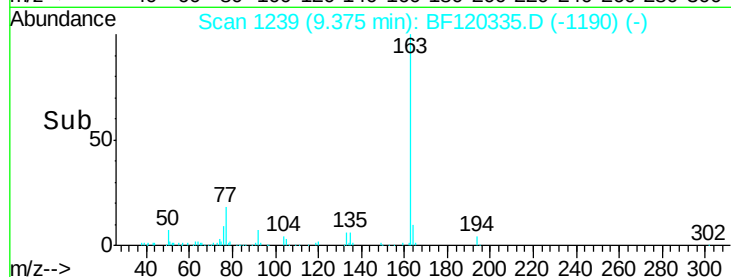
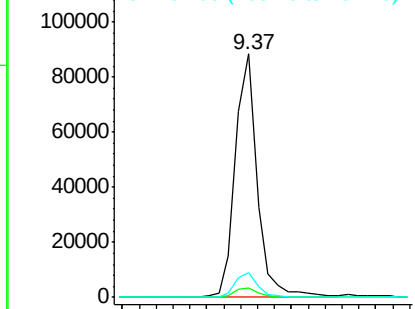
#50
Dimethylphthalate
Concen: 2.742 ng
RT: 9.37 min Scan# 1239
Delta R.T. -0.01 min
Lab File: BF120335.D
Acq: 15 May 2020 21:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 79885
Ion Ratio Lower Upper
163 100
194 3.7 3.1 4.7
164 10.3 8.6 12.8

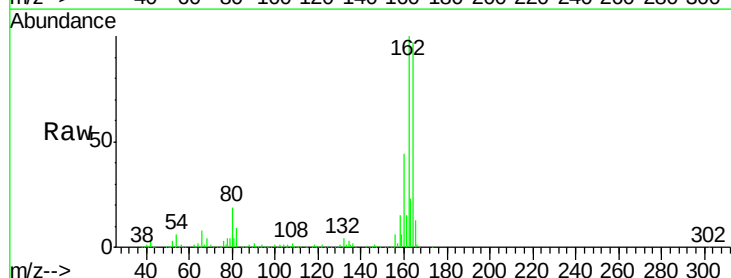


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

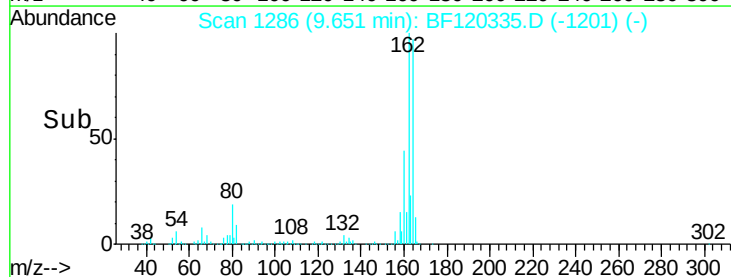
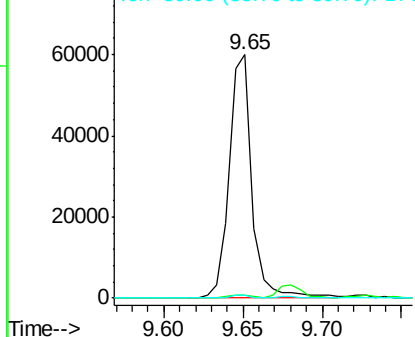


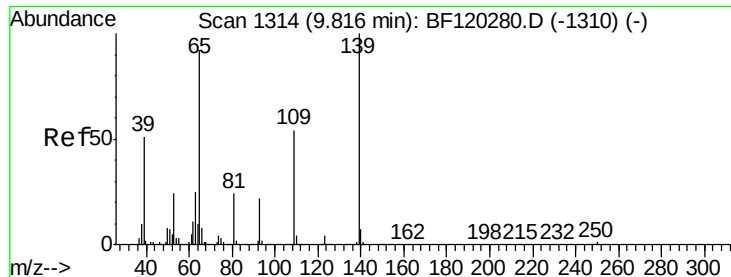
#51
2,6-Dinitrotoluene
Concen: 9.193 ng
RT: 9.65 min Scan# 1286
Delta R.T. 0.20 min
Lab File: BF120335.D
Acq: 15 May 2020 21:35

Tgt Ion:165 Resp: 59782
Ion Ratio Lower Upper
165 100
63 1.5 50.2 75.2#
89 1.3 44.6 66.8#



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

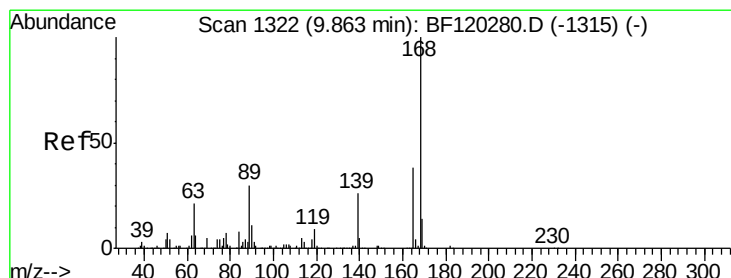
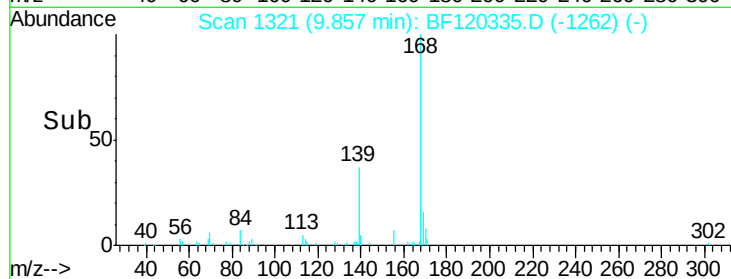
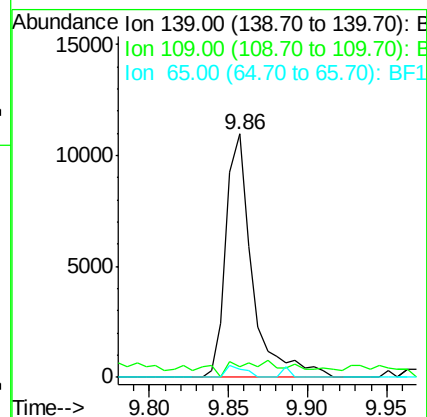
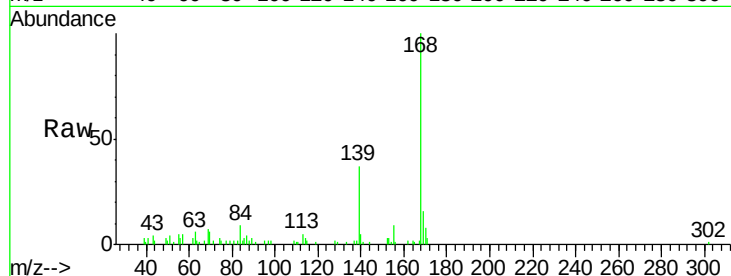




#56
4-Nitrophenol
Concen: 3.036 ng
RT: 9.86 min Scan# 1321
Delta R.T. 0.05 min
Lab File: BF120335.D
Acq: 15 May 2020 21:35

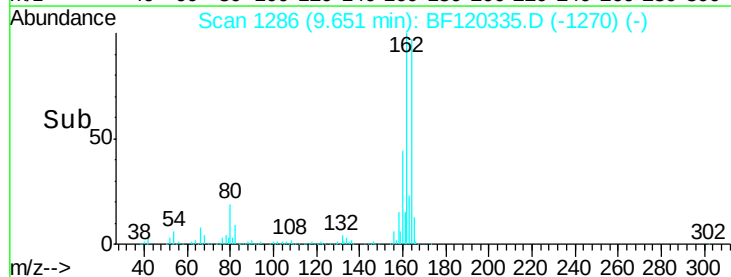
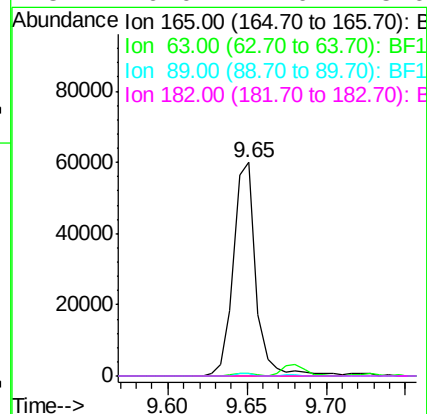
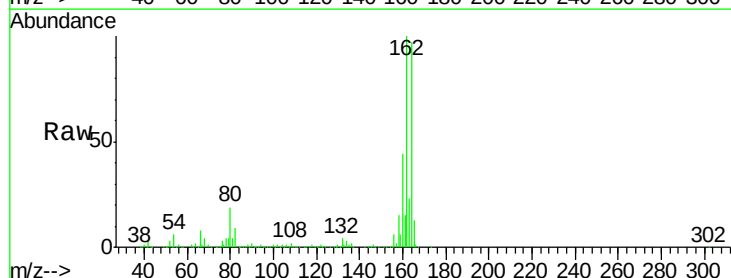
Instrument :
BNA_F
ClientSampleId :

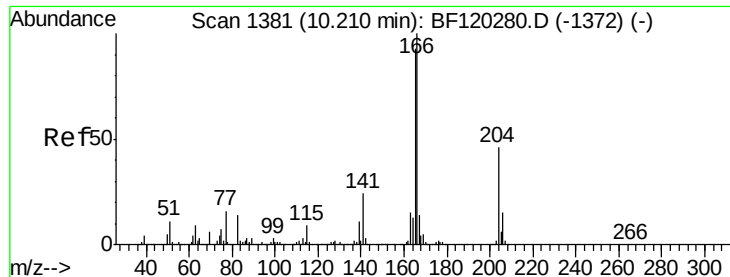
Tot Ion	Ratio	Lower	Upper
139	100		
109	4.1	34.6	74.6#
65	3.5	73.3	113.3#



#57
2,4-Dinitrotoluene
Concen: 7.837 ng
RT: 9.65 min Scan# 1286
Delta R.T. -0.21 min
Lab File: BF120335.D
Acq: 15 May 2020 21:35

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.5	51.8	77.8#
89	1.3	64.2	96.4#
182	0.0	2.0	3.0#





#58

Fluorene

Concen: 3.318 ng

RT: 10.20 min Scan# 1379

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

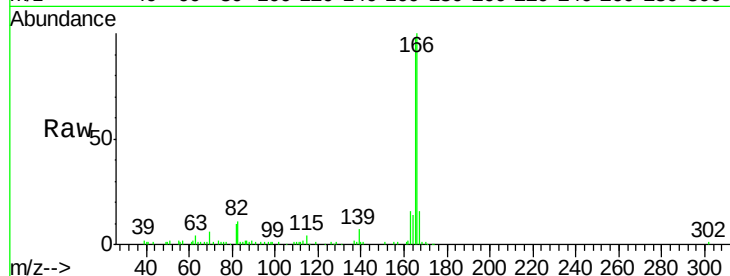
Tot Ion:166 Resp: 80706

Ion Ratio Lower Upper

166 100

165 98.2 74.7 112.1

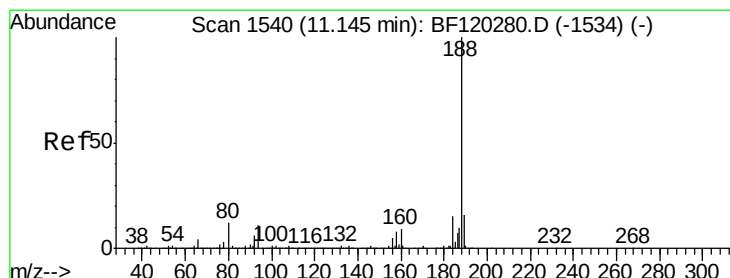
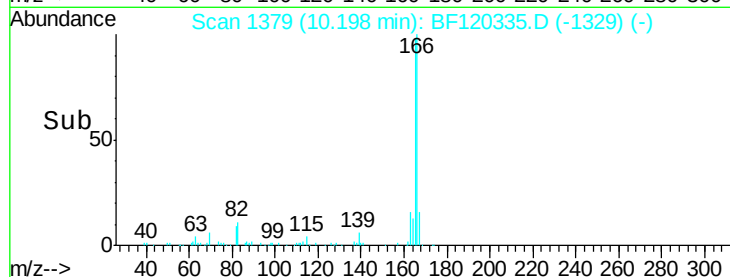
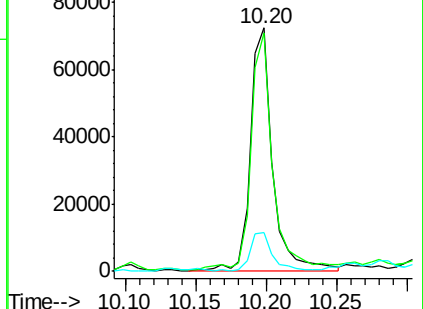
167 15.8 11.4 17.0



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: 11.13 min Scan# 1538

Delta R.T. -0.00 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

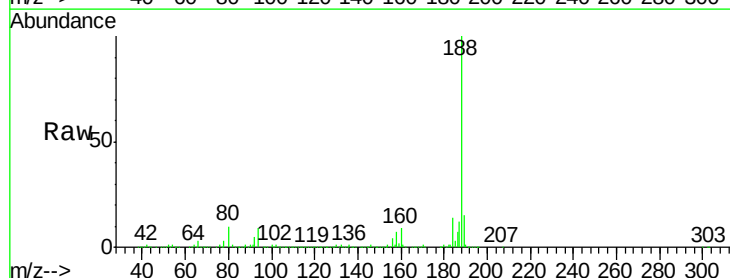
Tgt Ion:188 Resp: 697223

Ion Ratio Lower Upper

188 100

94 9.2 8.6 13.0

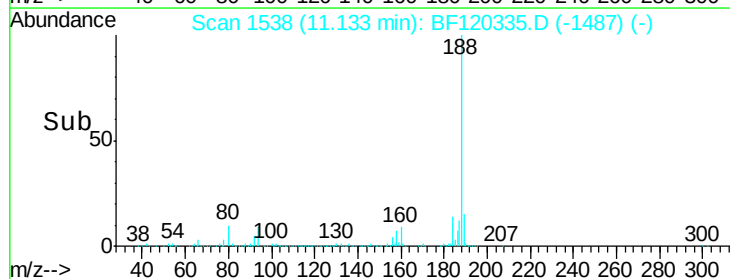
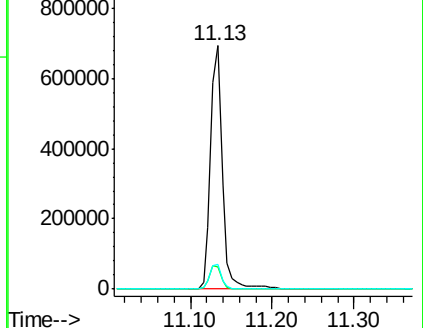
80 10.4 9.2 13.8

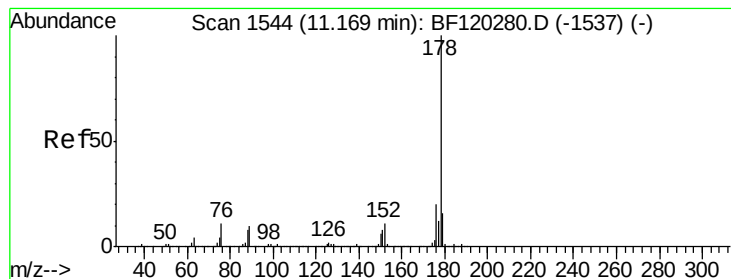


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 19.503 ng

RT: 11.16 min Scan# 1542

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

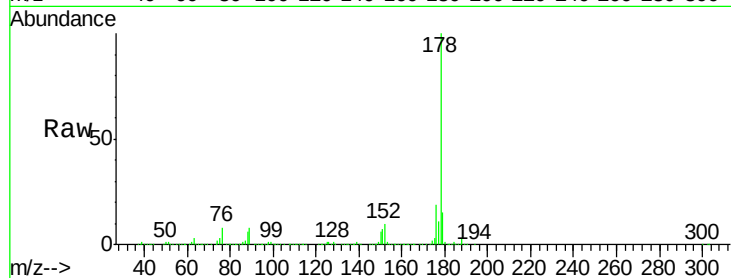
Tot Ion:178 Resp: 571373

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

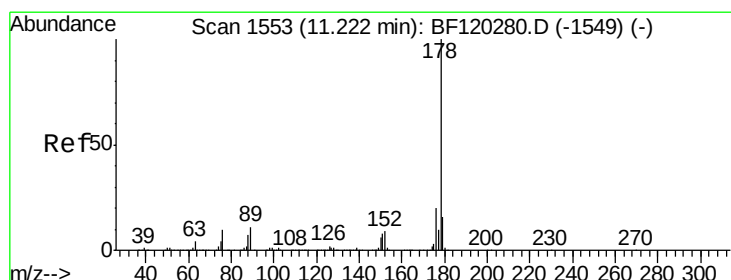
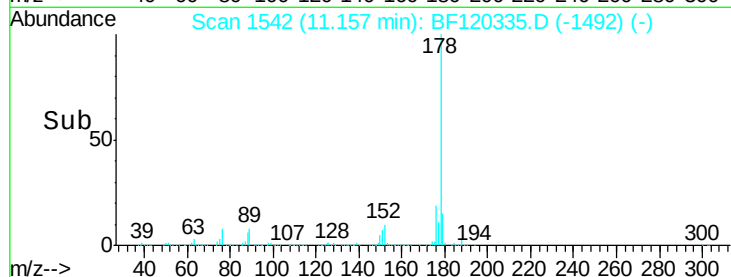
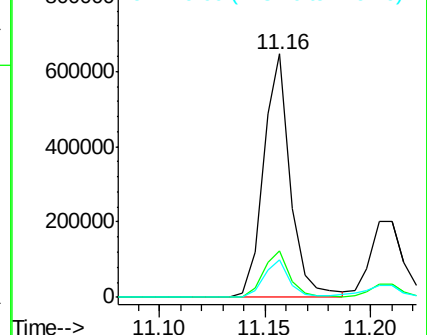
179 15.3 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 7.847 ng

RT: 11.20 min Scan# 1550

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

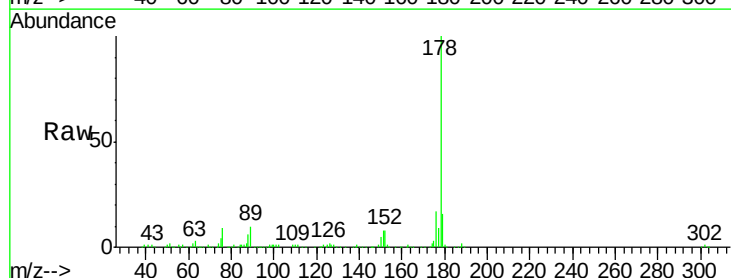
Tgt Ion:178 Resp: 246128

Ion Ratio Lower Upper

178 100

176 17.5 15.7 23.5

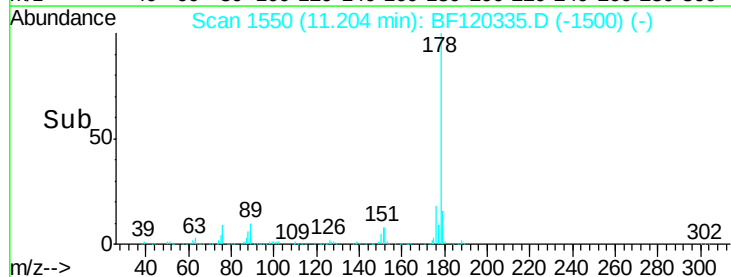
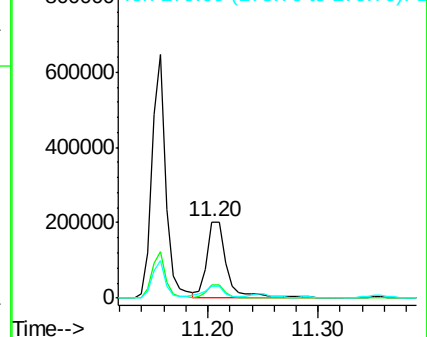
179 16.1 13.0 19.6

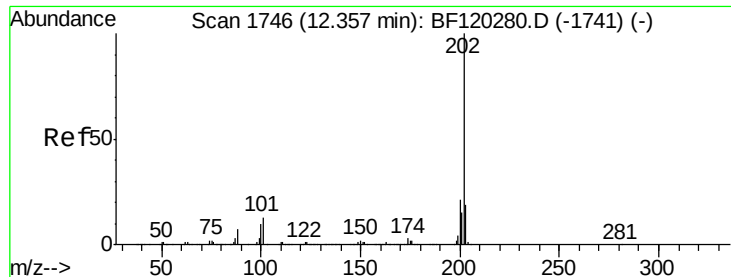


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 50.230 ng

RT: 12.35 min Scan# 1744

Delta R.T. -0.00 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

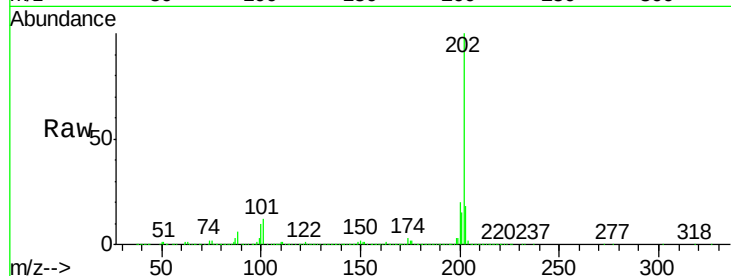
Tot Ion:202 Resp: 1577317

Ion Ratio Lower Upper

202 100

101 12.2 0.0 33.2

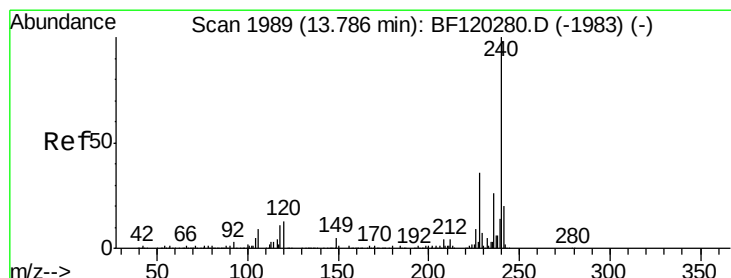
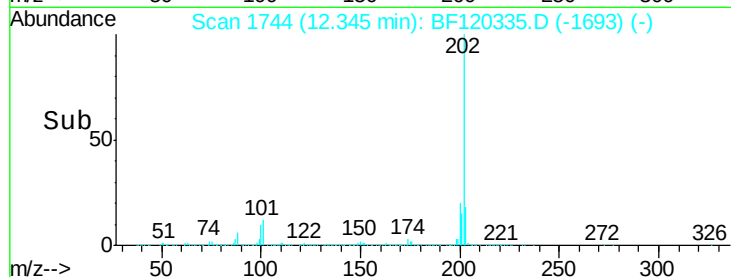
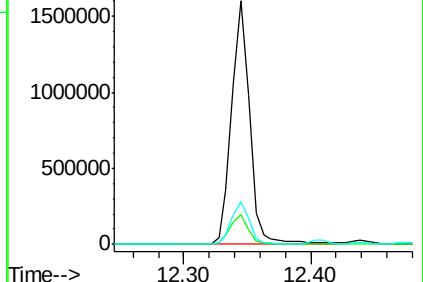
203 17.7 0.0 39.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.77 min Scan# 1986

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

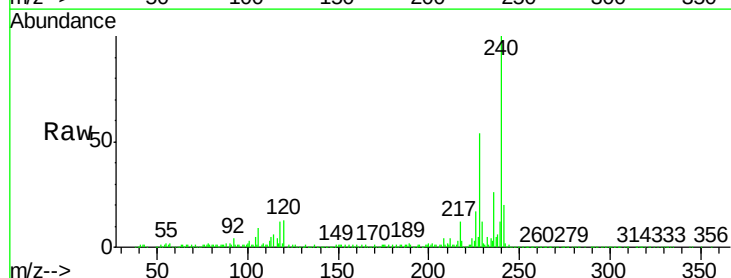
Tgt Ion:240 Resp: 436035

Ion Ratio Lower Upper

240 100

120 13.3 10.4 15.6

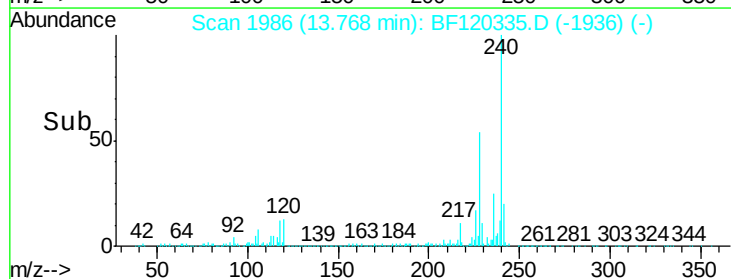
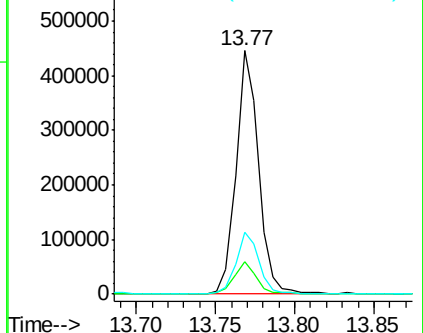
236 25.6 21.0 31.6

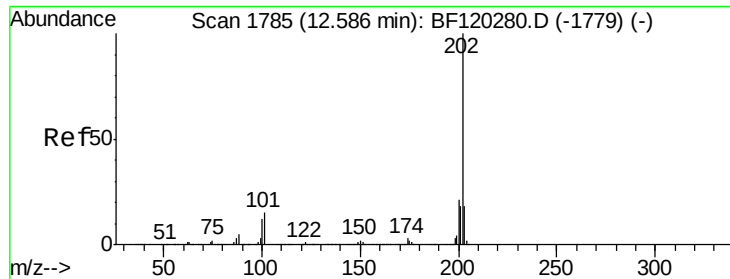


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

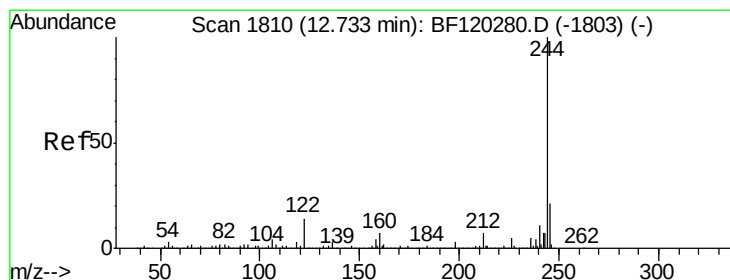
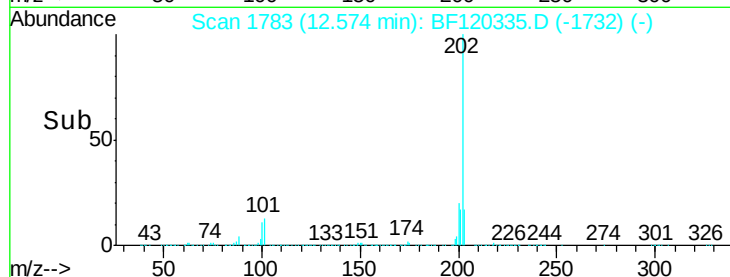
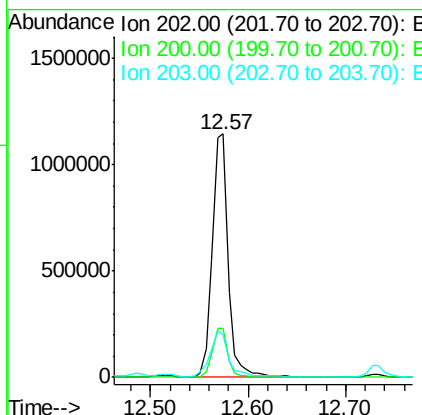
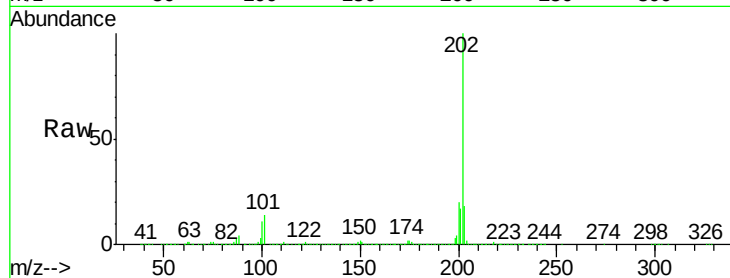




#78
Pvrene
Concen: 41.354 ng
RT: 12.57 min Scan# 1783
Delta R.T. -0.00 min
Lab File: BF120335.D
Acq: 15 May 2020 21:35

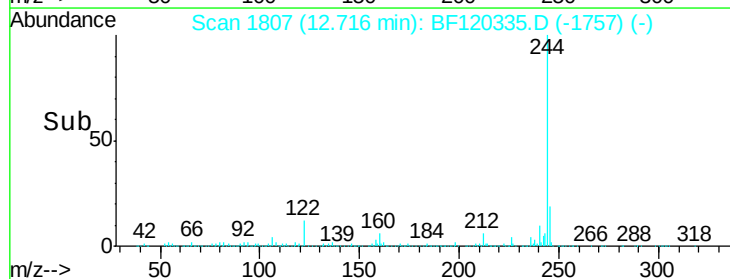
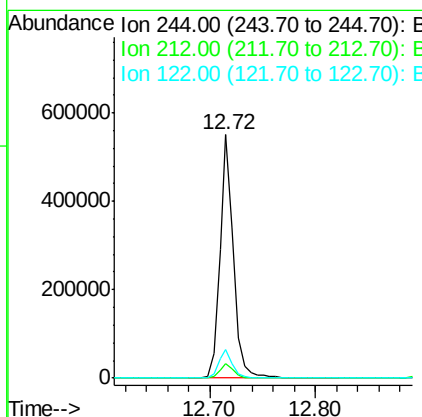
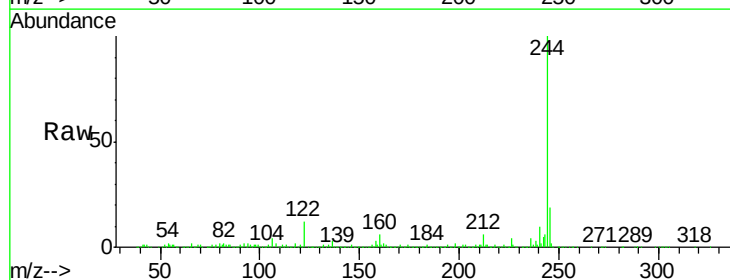
Instrument :
BNA_F
ClientSampleId :

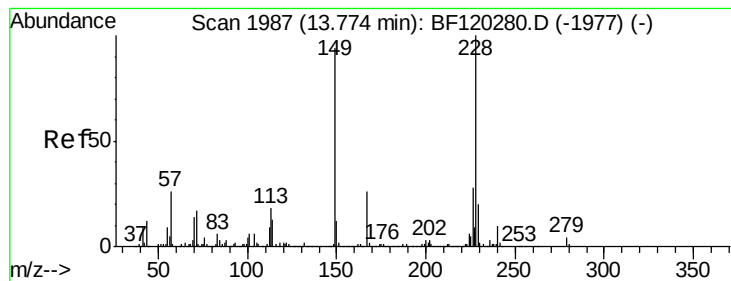
Tot Ion:202 Resp: 1285501
Ion Ratio Lower Upper
202 100
200 19.9 16.6 25.0
203 17.6 14.6 22.0



#79
Terphenyl-d14
Concen: 25.087 ng
RT: 12.72 min Scan# 1807
Delta R.T. -0.01 min
Lab File: BF120335.D
Acq: 15 May 2020 21:35

Tgt Ion:244 Resp: 495139
Ion Ratio Lower Upper
244 100
212 5.9 5.8 8.6
122 11.8 10.8 16.2





#81

Benzo(a)anthracene

Concen: 26.156 ng

RT: 13.76 min Scan# 1985

Delta R.T. -0.00 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

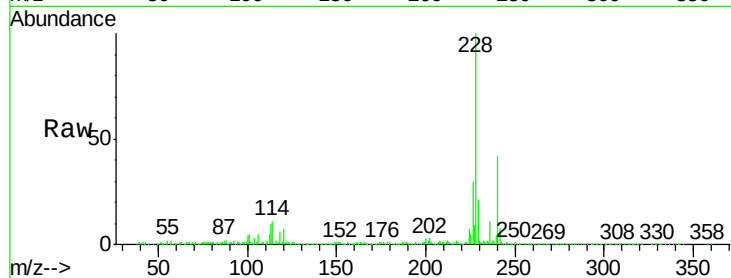
Tot Ion:228 Resp: 601529

Ion Ratio Lower Upper

228 100

226 29.7 22.6 33.8

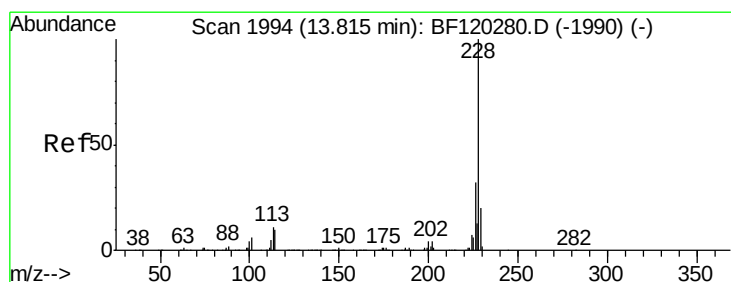
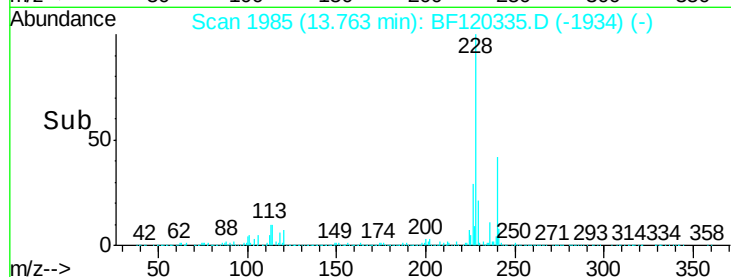
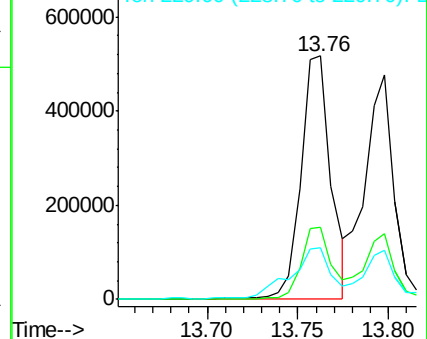
229 21.4 16.4 24.6



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: 21.770 ng

RT: 13.80 min Scan# 1991

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

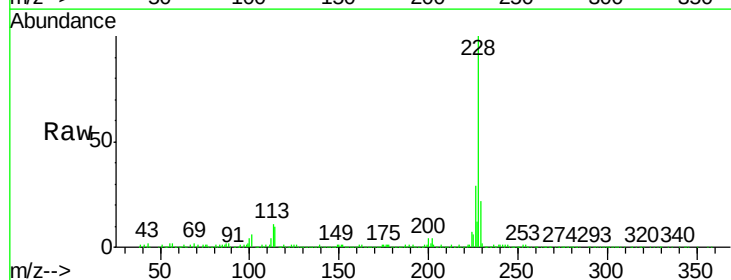
Tgt Ion:228 Resp: 537626

Ion Ratio Lower Upper

228 100

226 29.3 25.0 37.6

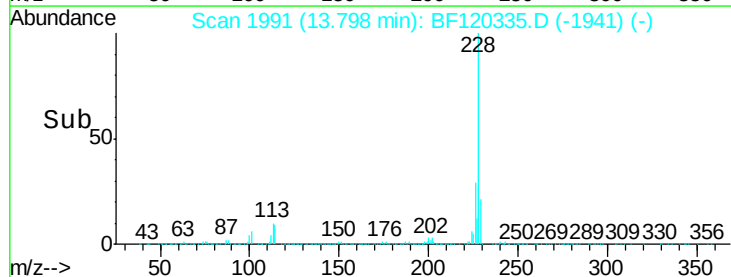
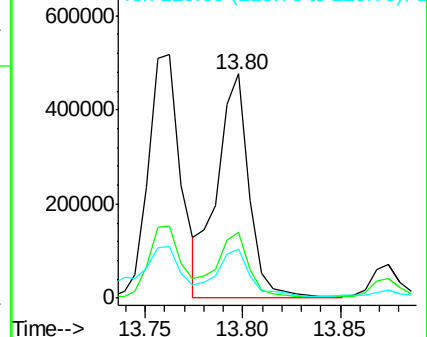
229 21.9 16.2 24.4

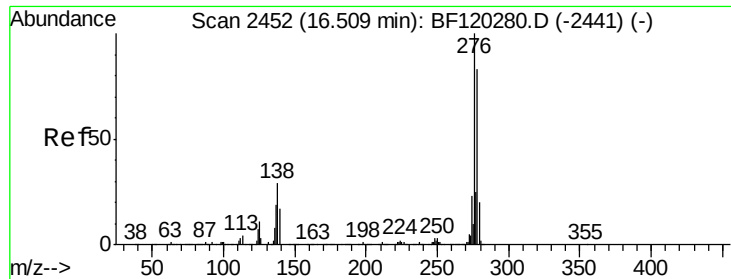


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 2.838 ng

RT: 16.34 min Scan# 2423

Delta R.T. -0.15 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

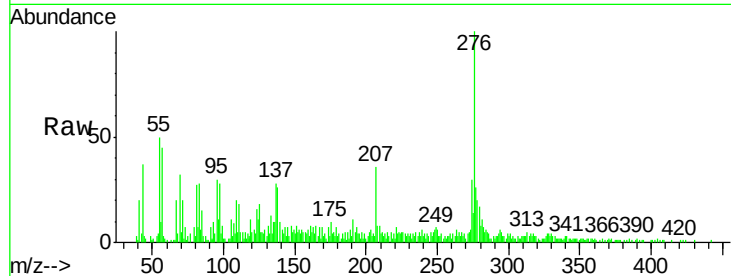
Tot Ion:276 Resp: 63600

Ion Ratio Lower Upper

276 100

138 25.2 23.3 34.9

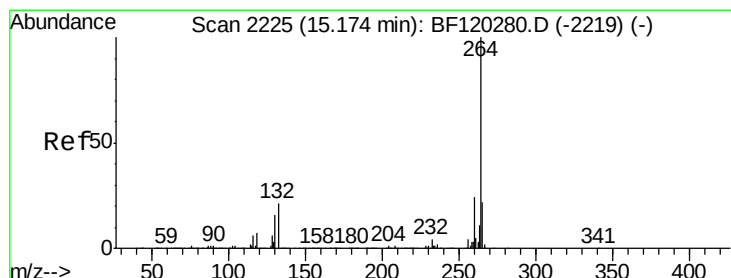
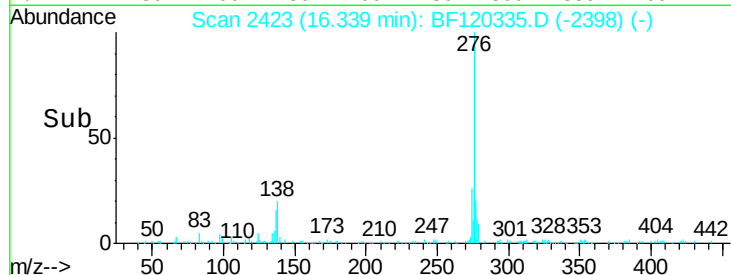
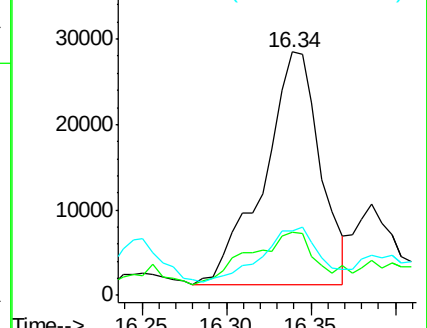
277 23.3 20.2 30.4



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

Perylene-d12

Concen: 20.000 ng

RT: 15.16 min Scan# 2223

Delta R.T. -0.00 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

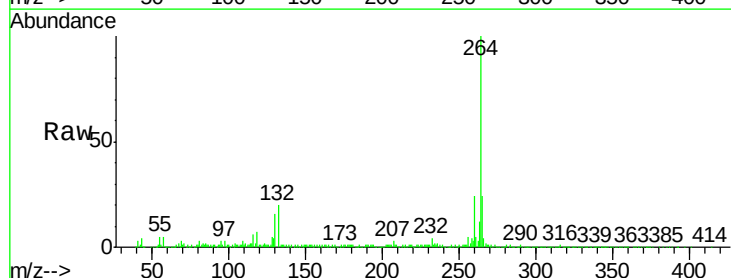
Tgt Ion:264 Resp: 379573

Ion Ratio Lower Upper

264 100

260 24.0 19.0 28.6

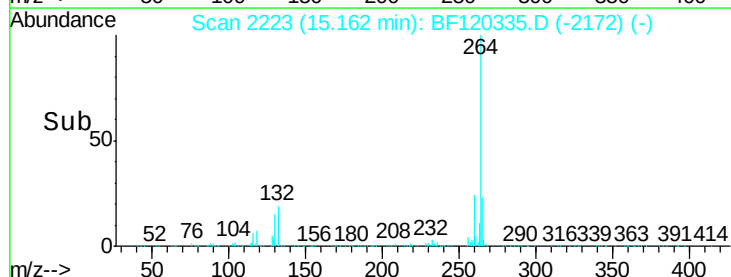
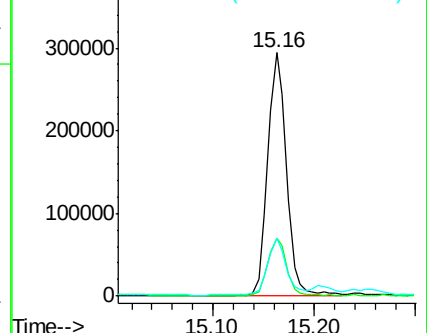
265 23.7 17.5 26.3

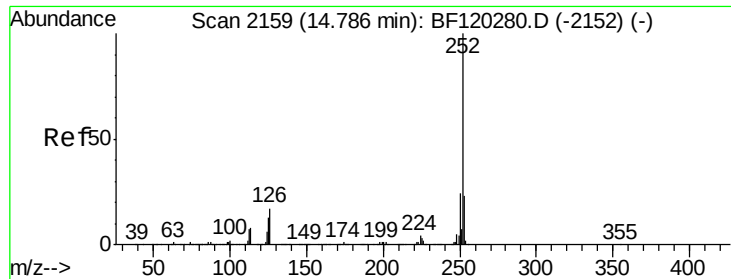


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 46.509 ng

RT: 14.77 min Scan# 2157

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

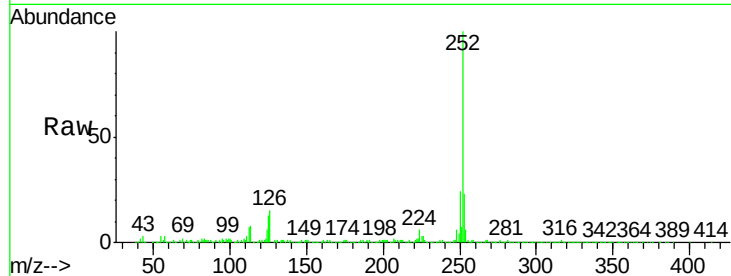
Tot Ion:252 Resp: 964101

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

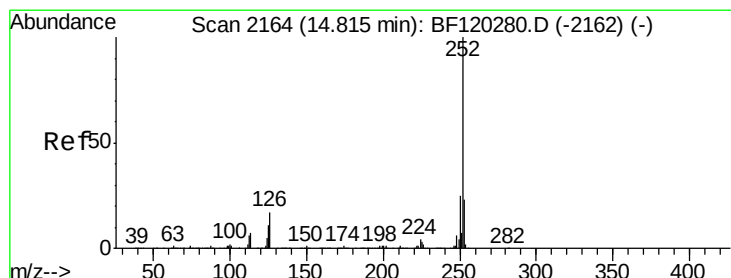
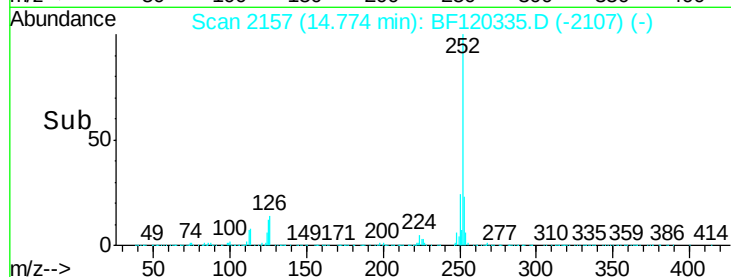
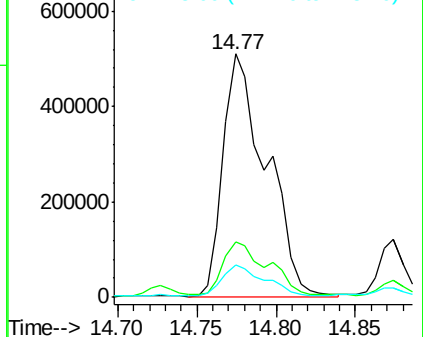
125 13.2 10.4 15.6



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: 53.682 ng

RT: 14.77 min Scan# 2157

Delta R.T. -0.03 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

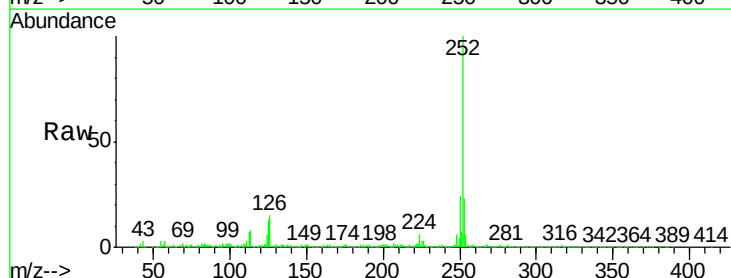
Tgt Ion:252 Resp: 964101

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.2

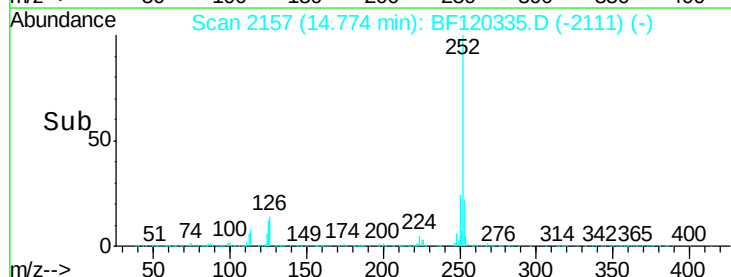
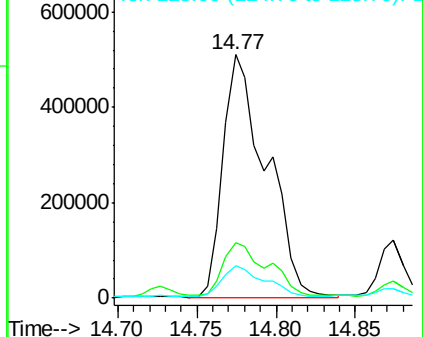
125 13.2 9.9 14.9

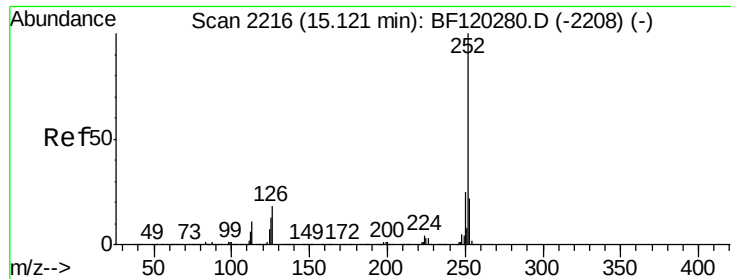


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 23.241 ng

RT: 15.10 min Scan# 2213

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

Instrument :

BNA_F

ClientSampleId :

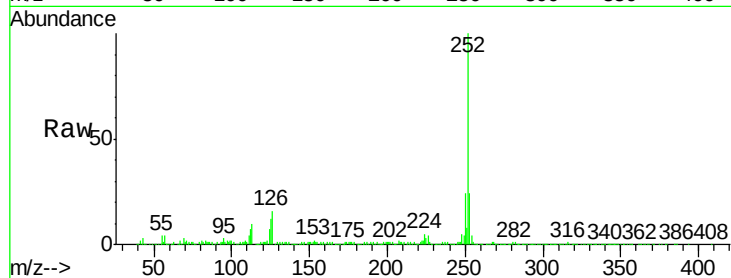
Tot Ion:252 Resp: 432061

Ion Ratio Lower Upper

252 100

253 23.9 17.6 26.4

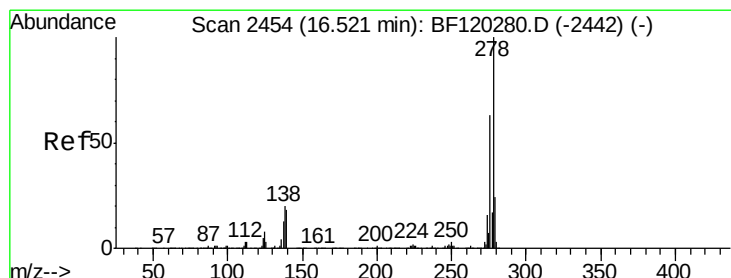
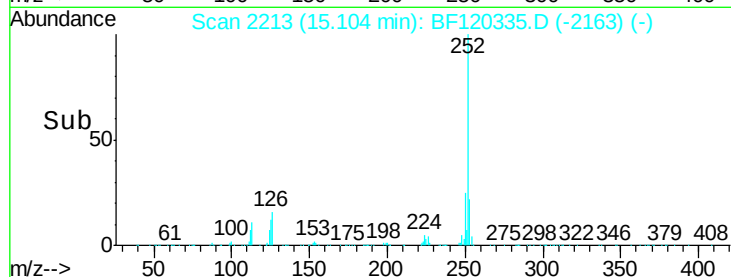
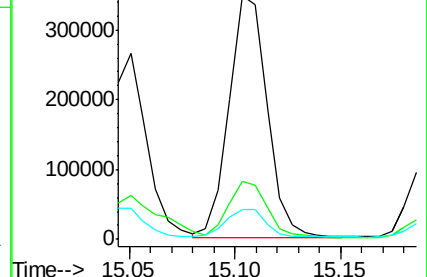
125 12.5 10.6 16.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 5.177 ng

RT: 16.49 min Scan# 2449

Delta R.T. -0.01 min

Lab File: BF120335.D

Acq: 15 May 2020 21:35

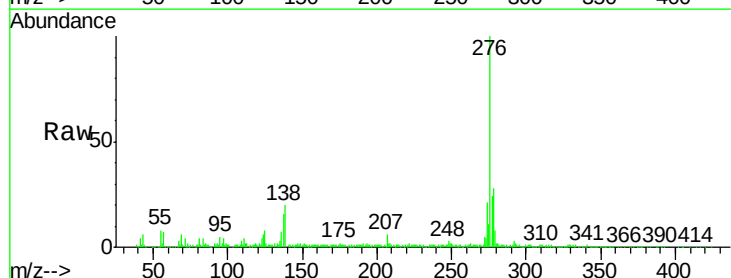
Tgt Ion:278 Resp: 85259

Ion Ratio Lower Upper

278 100

139 0.0 14.7 22.1#

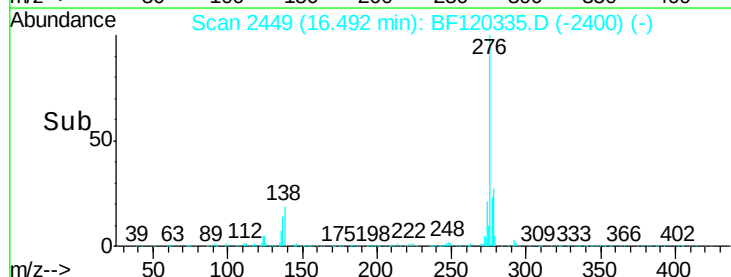
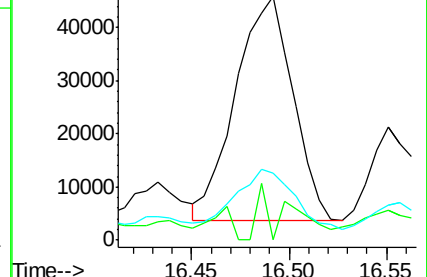
279 27.5 19.2 28.8

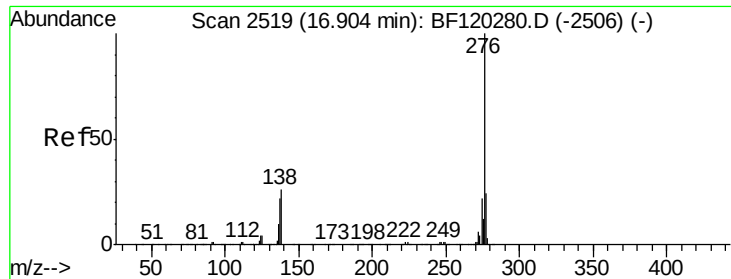


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 15.449 ng
 RT: 16.88 min Scan# 2515
 Delta R.T. -0.01 min
 Lab File: BF120335.D
 Acq: 15 May 2020 21:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.1	28.7
138	22.2	20.8	31.2

