

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
 Data File : BF121642.D
 Acq On : 21 Sep 2020 23:14
 Operator : JU/CG
 Sample : L4073-01RE
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 H-1

Quant Time: Sep 22 01:16:41 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 21 14:19:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	155353	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	601260	20.00	ng	0.00
39) Acenaphthene-d10	9.86	164	304061	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	526675	20.00	ng	0.00
76) Chrysene-d12	14.00	240	385138	20.00	ng	0.00
86) Perylene-d12	15.46	264	395616	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	737863	70.58	ng	0.00
7) Phenol-d6	6.46	99	962838	70.21	ng	0.00
23) Nitrobenzene-d5	7.38	82	651705	58.20	ng	0.00
42) 2,4,6-Tribromophenol	10.65	330	268318	71.00	ng	0.00
45) 2-Fluorobiphenyl	9.18	172	1159039	57.73	ng	0.00
79) Terphenyl-d14	12.94	244	1038163	54.61	ng	0.00

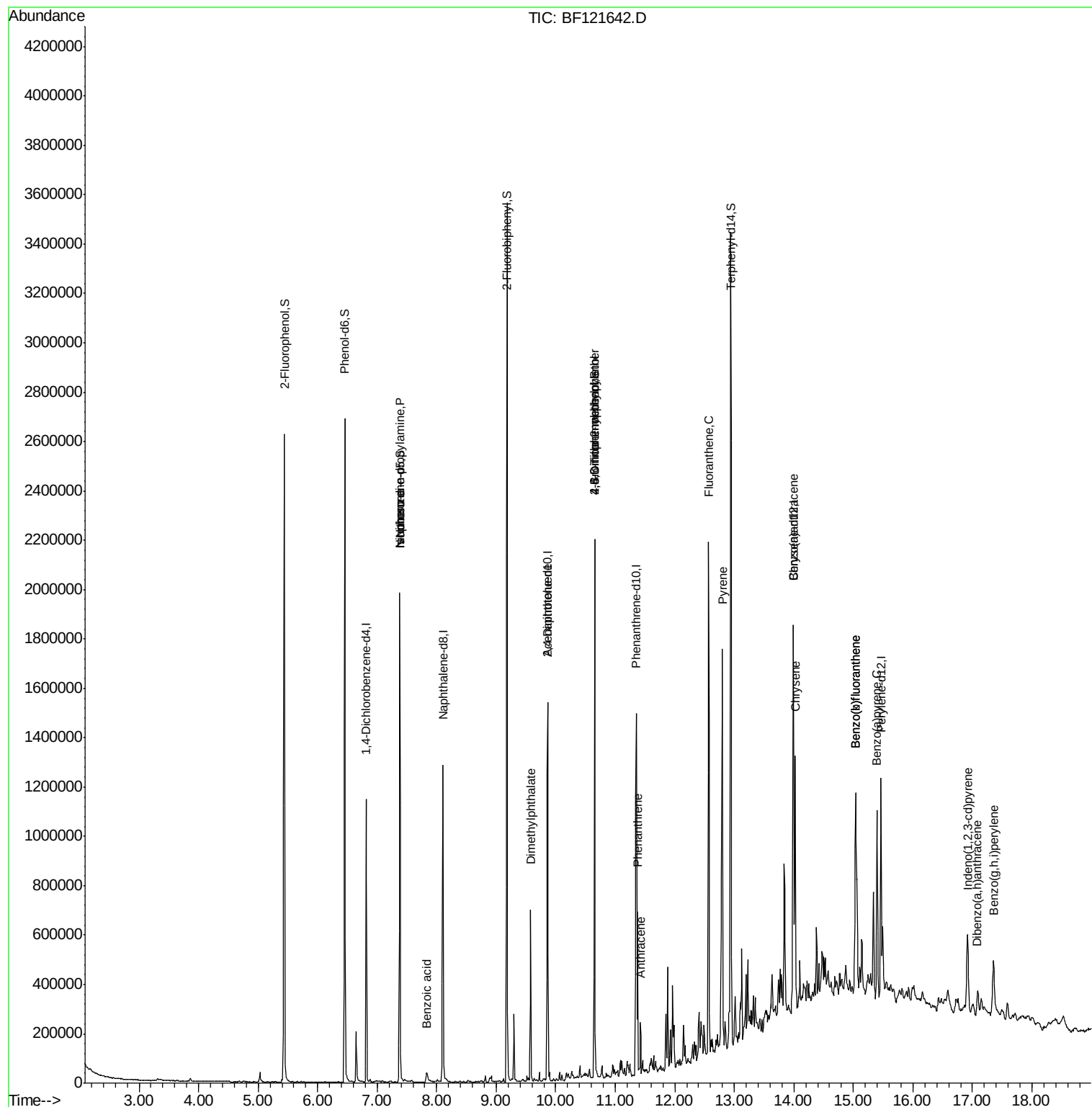
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.38	70	87798	11.108	ng	# 78
25) Isophorone	7.38	82	642120	28.485	ng	# 67
32) Benzoic acid	7.83	122	20098	9.226	ng	99
50) Dimethylphthalate	9.57	163	261493	11.866	ng	99
57) 2,4-Dinitrotoluene	9.86	165	39489	6.688	ng	# 24
65) 4,6-Dinitro-2-methylphenol	10.65	198	396	6.957	ng	# 1
67) 4-Bromophenyl-phenylether	10.65	248	15758	2.628	ng	# 1
71) Phenanthrene	11.37	178	245092	8.541	ng	98
72) Anthracene	11.42	178	77176	2.606	ng	98
75) Fluoranthene	12.57	202	765720	24.997	ng	99
78) Pyrene	12.80	202	684033	24.309	ng	99
81) Benzo(a)anthracene	13.99	228	467173	19.173	ng	98
83) Chrysene	14.02	228	364612	14.777	ng	97
87) Indeno(1,2,3-cd)pyrene	16.92	276	212738	8.257	ng	95
88) Benzo(b)fluoranthene	15.04	252	652657	24.678	ng	99
89) Benzo(k)fluoranthene	15.04	252	652657	26.948	ng	99
90) Benzo(a)pyrene	15.40	252	368406	16.387	ng	98
91) Dibenzo(a,h)anthracene	17.09	278	51083	2.382	ng	92
92) Benzo(a,h,i)perylene	17.35	276	179990	8.538	ng	98

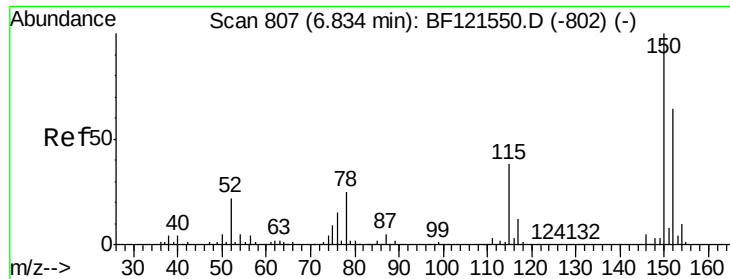
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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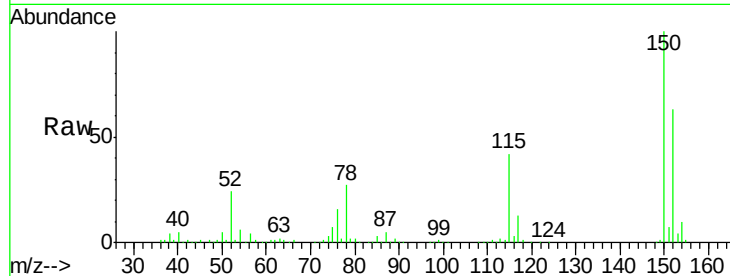


#1

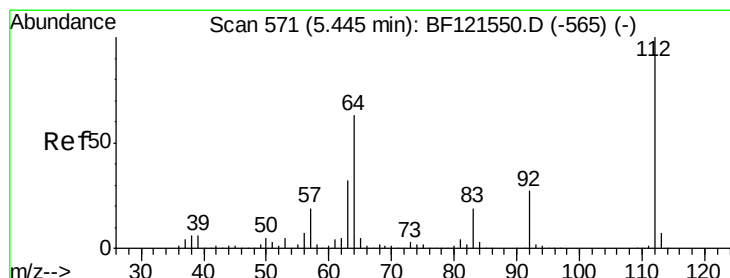
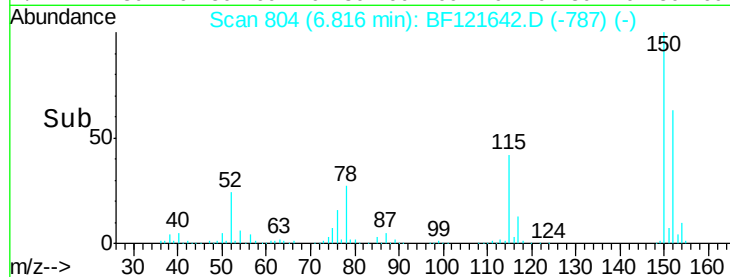
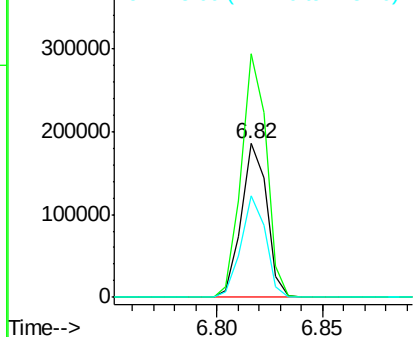
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

Instrument :
BNA_F
ClientSampleId :
H-1

Tot Ion:152 Resp: 155353
Ion Ratio Lower Upper
152 100
150 158.2 128.1 192.1
115 65.9 52.6 79.0



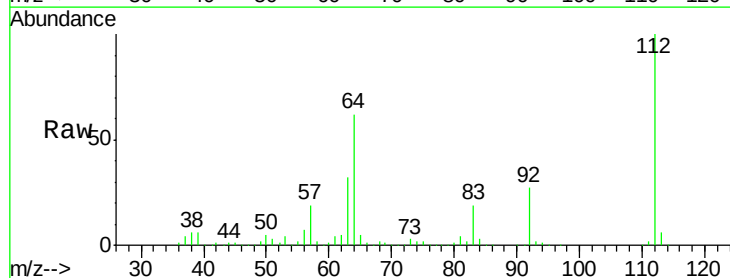
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



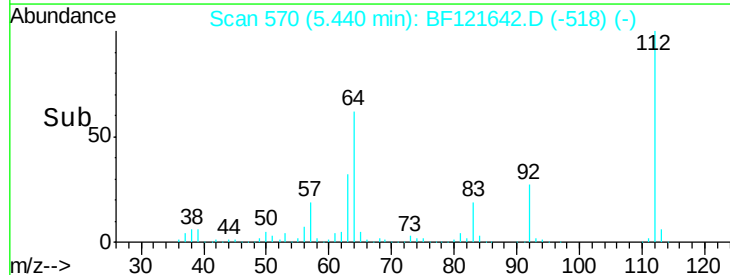
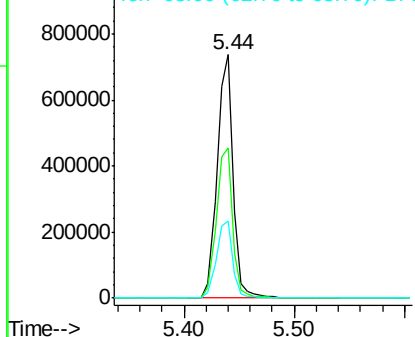
#5

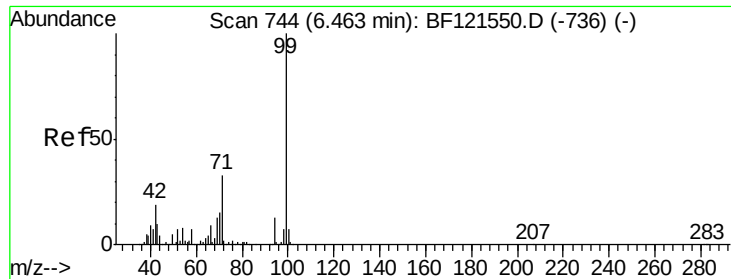
2-Fluorophenol
Concen: 70.585 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.01 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

Tgt Ion:112 Resp: 737863
Ion Ratio Lower Upper
112 100
64 61.9 52.2 78.2
63 31.5 26.6 39.8



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: 70.206 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

Instrument :

BNA_F

ClientSampleId :

H-1

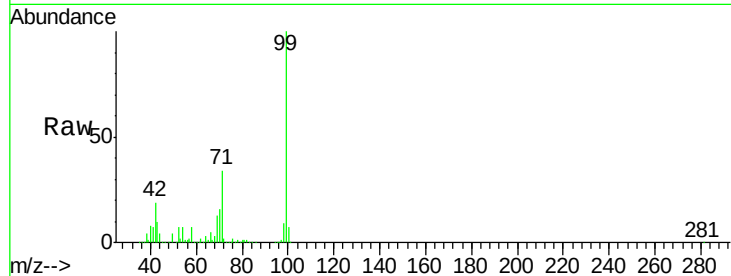
Tot Ion: 99 Resp: 962838

Ion Ratio Lower Upper

99 100

42 19.4 15.5 23.3

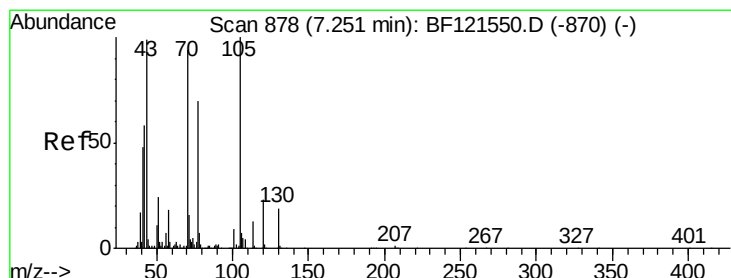
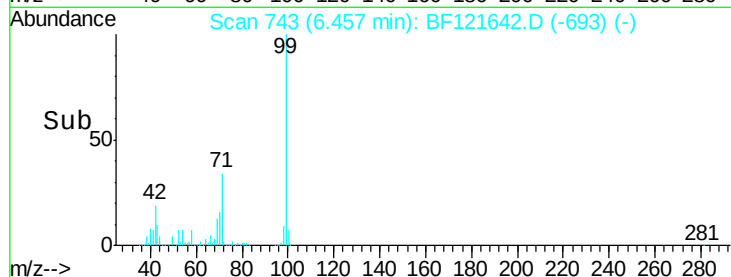
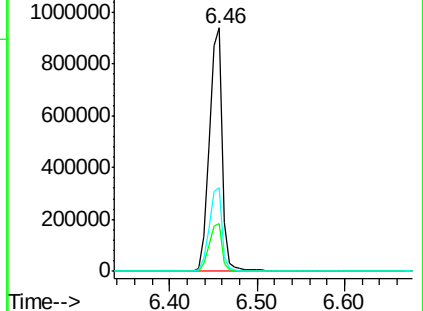
71 34.3 27.4 41.2



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: 11.108 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.14 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

Tgt Ion: 70 Resp: 87798

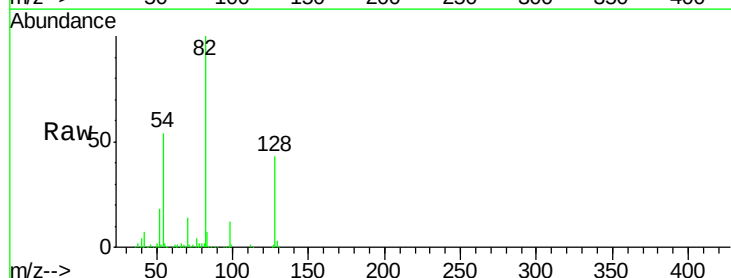
Ion Ratio Lower Upper

70 100

42 48.6 48.3 72.5

101 0.0 7.6 11.4#

130 2.1 15.9 23.9#

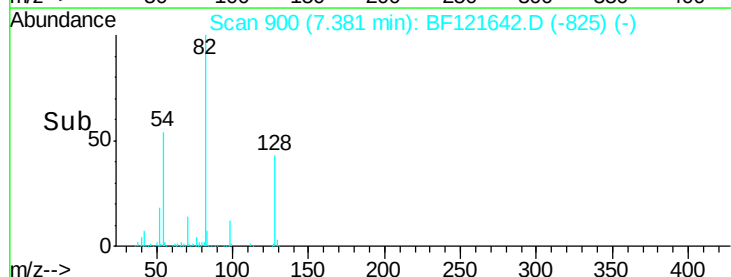
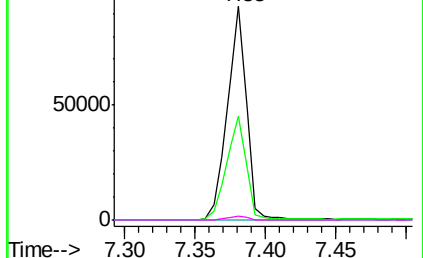


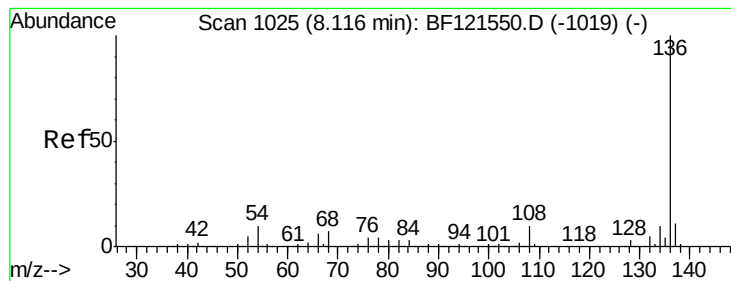
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.10 min Scan# 1023

Delta R.T. 0.00 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

Instrument :

BNA_F

ClientSampleId :

H-1

Tot Ion:136 Resp: 601260

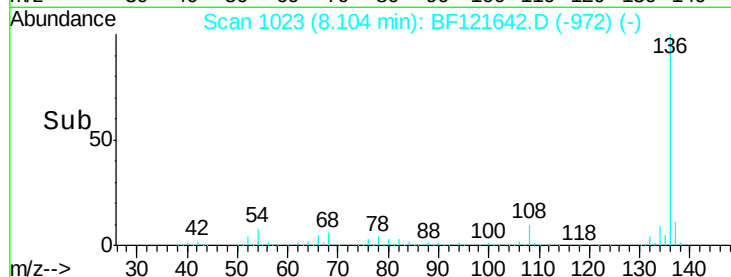
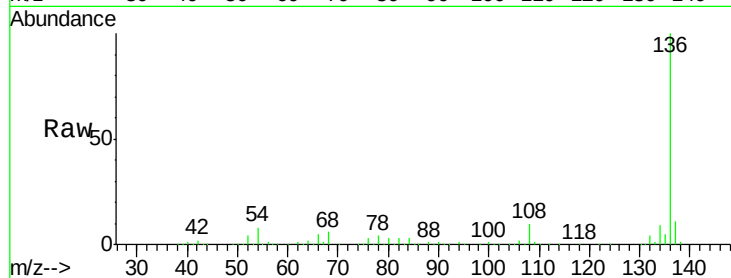
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 8.5 7.4 11.0

68 6.2 5.3 7.9

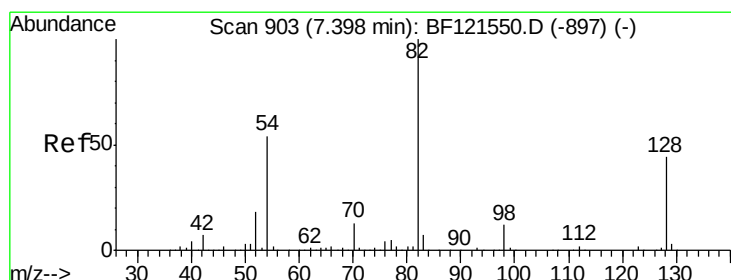
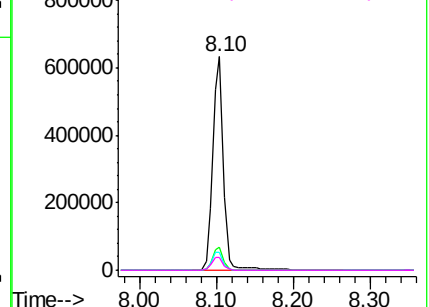


Abundance Ion 136.00 (135.70 to 136.70): E

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: 58.196 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.01 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

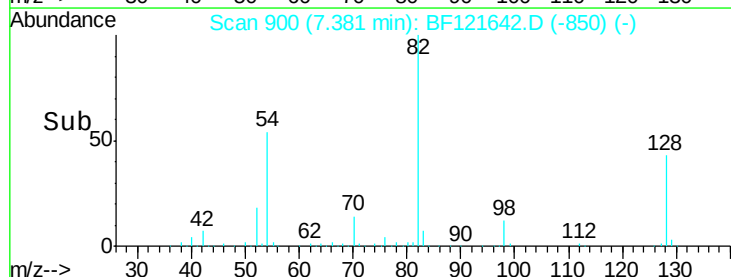
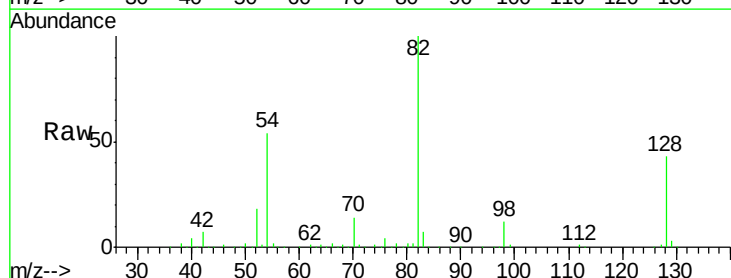
Tgt Ion: 82 Resp: 651705

Ion Ratio Lower Upper

82 100

128 42.8 33.9 50.9

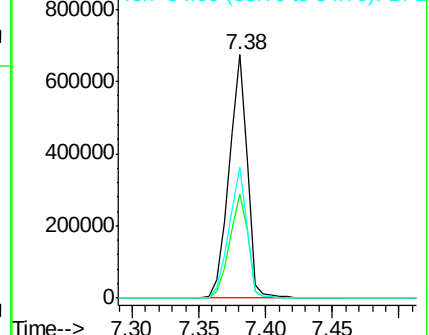
54 53.7 42.9 64.3

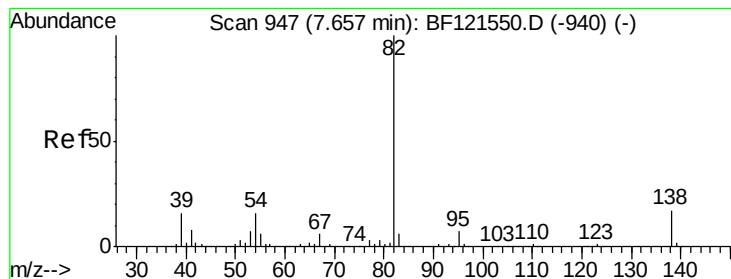


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 28.485 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.26 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

Instrument :

BNA_F

ClientSampled :

H-1

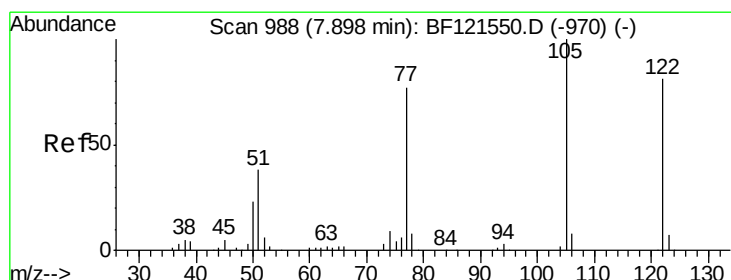
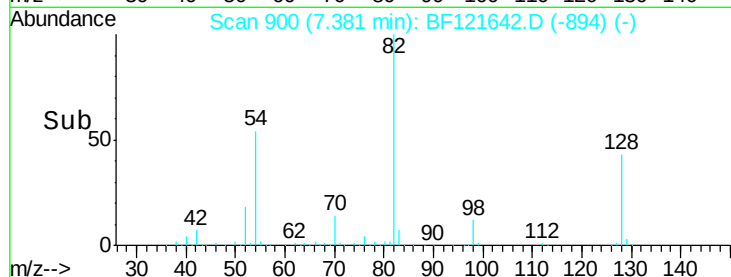
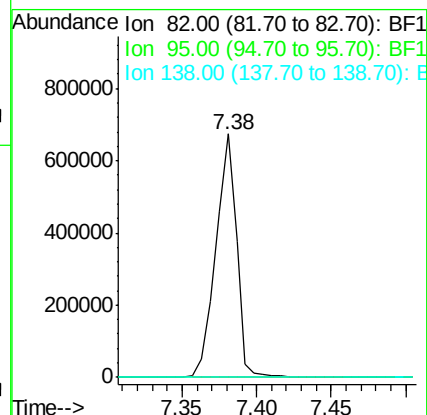
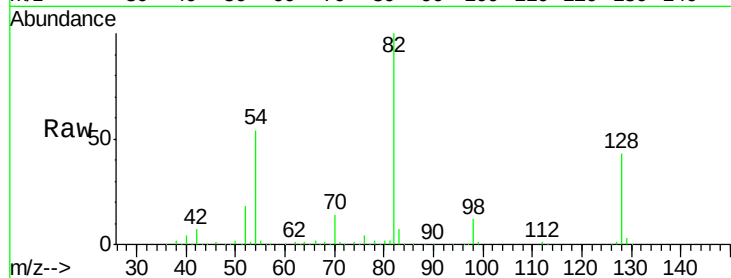
Tot Ion: 82 Resp: 642120

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

138 0.0 13.2 19.8#



#32

Benzoic acid

Concen: 9.226 ng

RT: 7.83 min Scan# 977

Delta R.T. -0.07 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

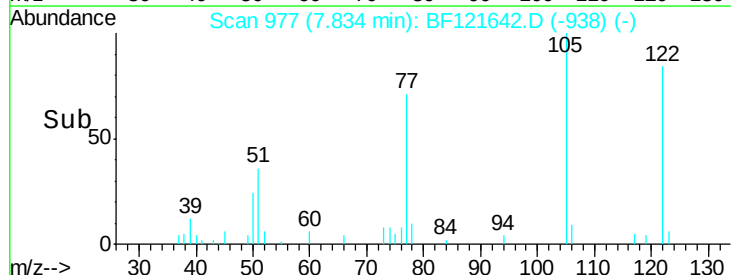
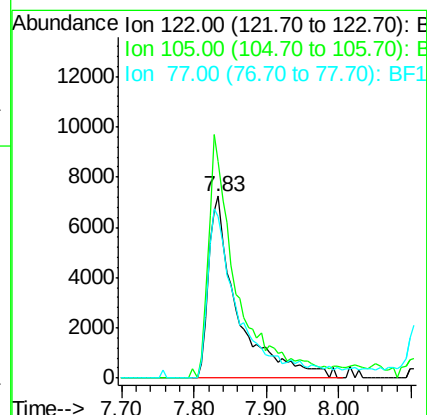
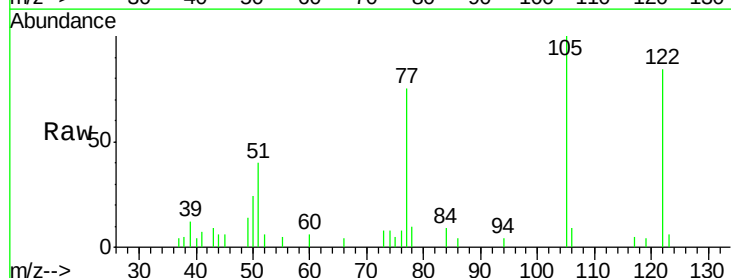
Tgt Ion: 122 Resp: 20098

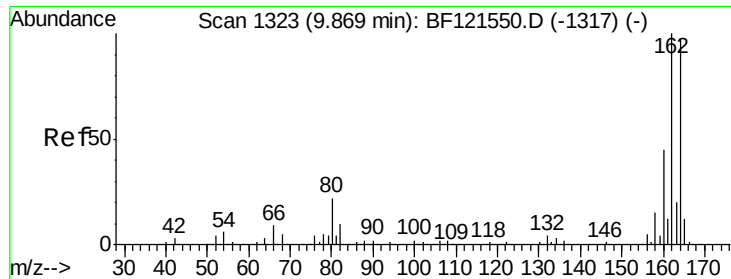
Ion Ratio Lower Upper

122 100

105 119.1 101.9 141.9

77 89.0 69.0 109.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.86 min Scan# 1322

Delta R.T. 0.00 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

Instrument :

BNA_F

ClientSampleId :

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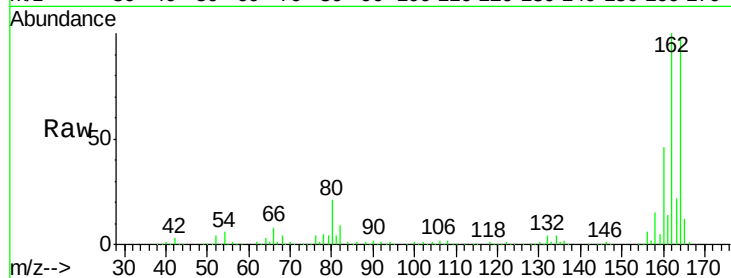
Tot Ion:164 Resp: 304061

Ion Ratio Lower Upper

164 100

162 101.7 81.2 121.8

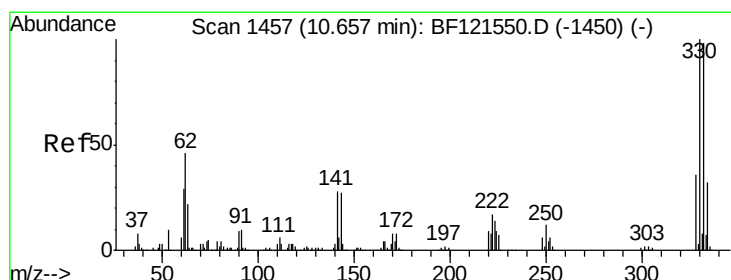
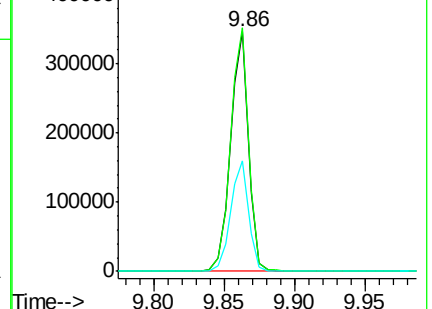
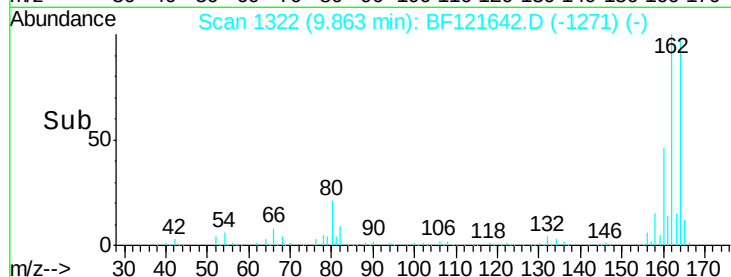
160 46.3 36.2 54.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 71.001 ng

RT: 10.65 min Scan# 1456

Delta R.T. -0.01 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

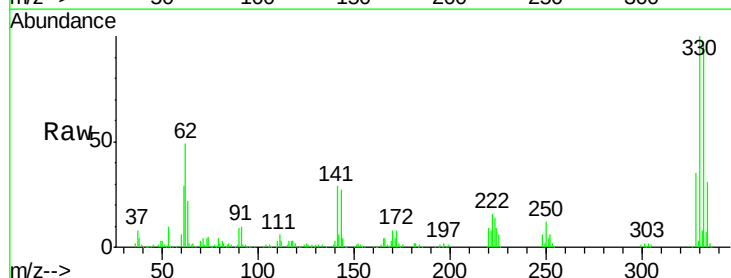
Tgt Ion:330 Resp: 268318

Ion Ratio Lower Upper

330 100

332 96.3 76.9 115.3

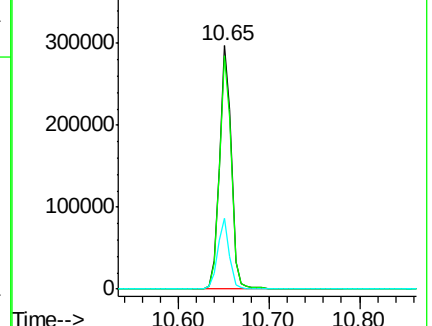
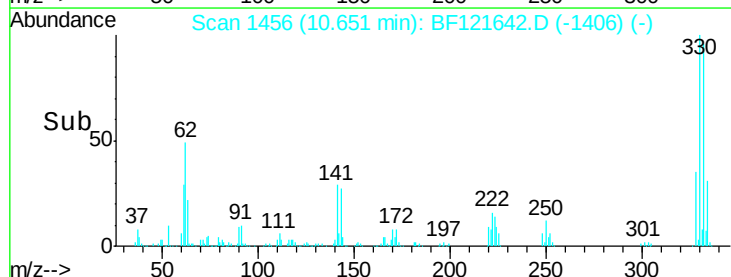
141 28.7 22.4 33.6

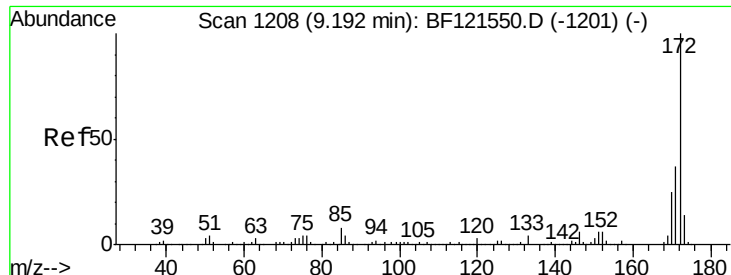


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



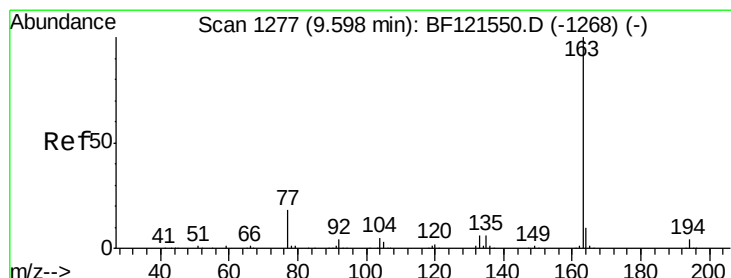
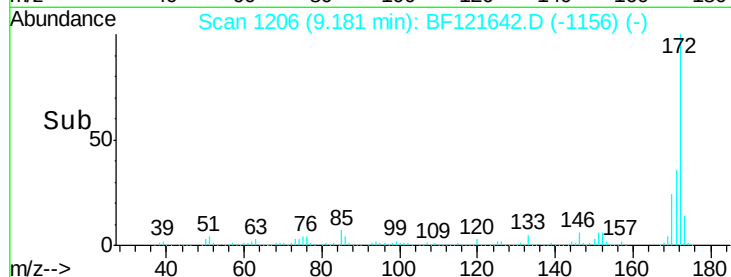
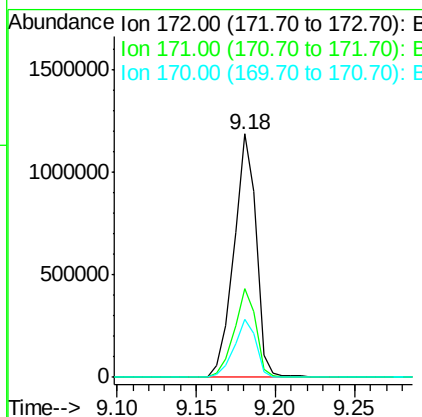
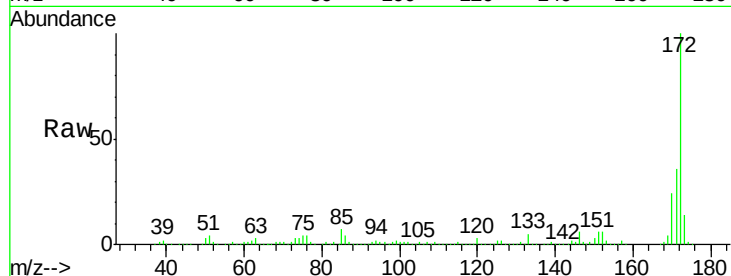


#45
 2-Fluorobiphenyl
 Concen: 57.732 ng
 RT: 9.18 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: BF121642.D
 Acq: 21 Sep 2020 23:14

Instrument :
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 ClientSampleId :
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Tot Ion:172 Resp: 1159039

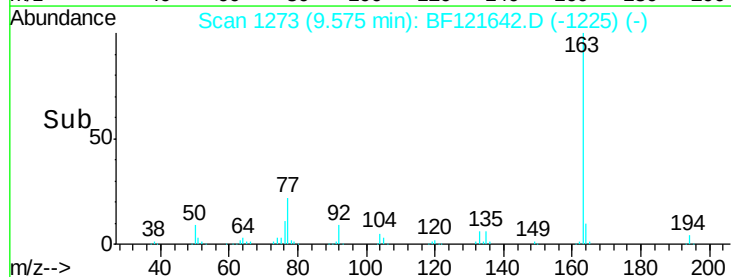
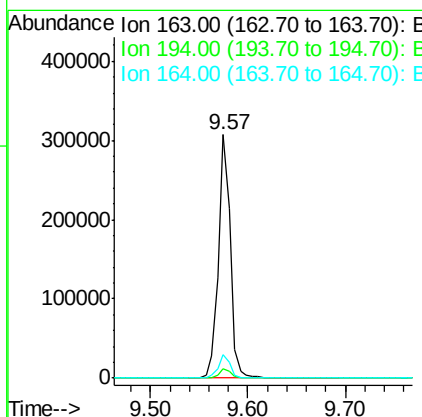
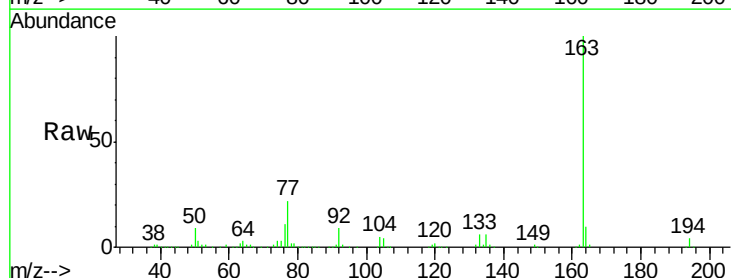
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.3	43.9
170	24.1	19.5	29.3

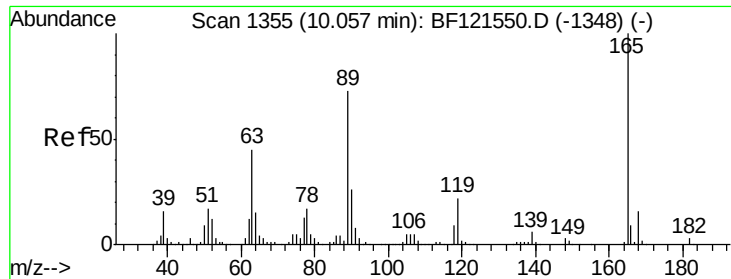


#50
 Dimethylphthalate
 Concen: 11.866 ng
 RT: 9.57 min Scan# 1273
 Delta R.T. -0.02 min
 Lab File: BF121642.D
 Acq: 21 Sep 2020 23:14

Tgt Ion:163 Resp: 261493

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	9.8	8.0	12.0

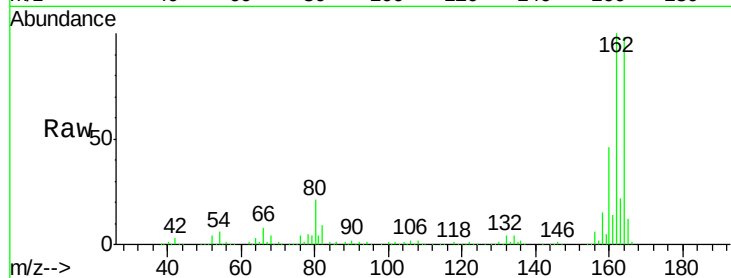




#57
 2,4-Dinitrotoluene
 Concen: 6.688 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. -0.19 min
 Lab File: BF121642.D
 Acq: 21 Sep 2020 23:14

Instrument :
 BNA_F
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
165	100		
63	1.3	36.7	55.1#
89	1.8	57.7	86.5#
182	0.0	2.1	3.1#

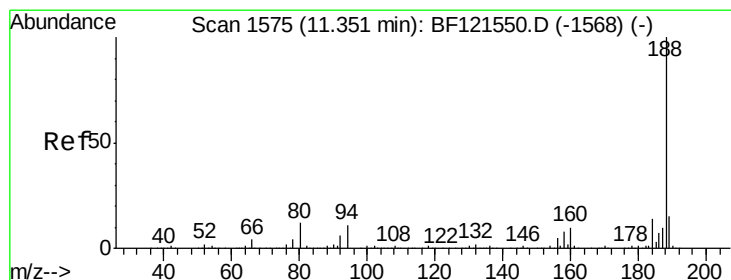
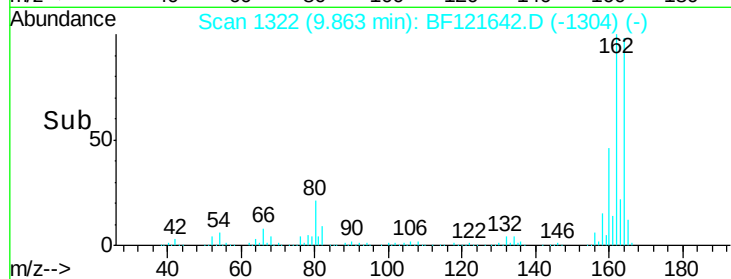
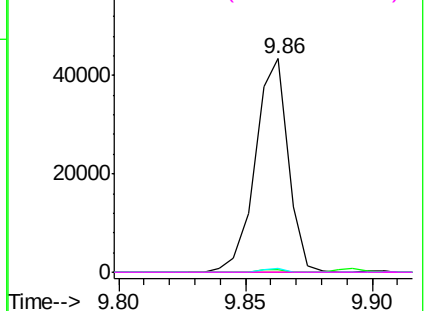


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

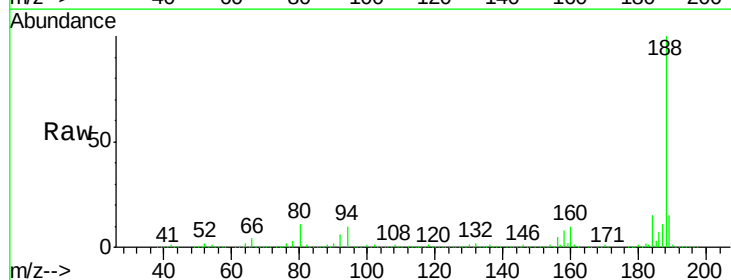
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: BF121642.D
 Acq: 21 Sep 2020 23:14

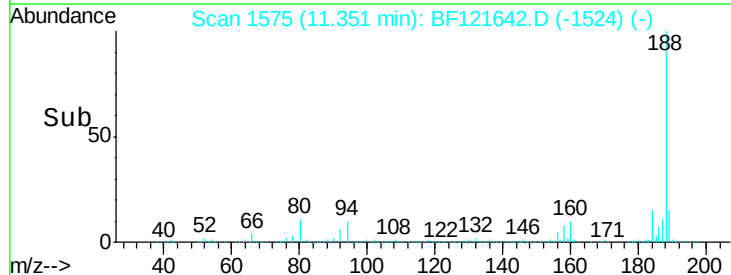
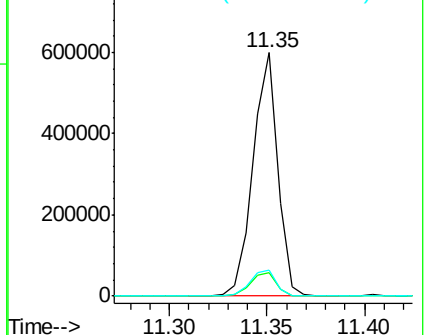
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.4	12.6
80	10.6	9.0	13.4

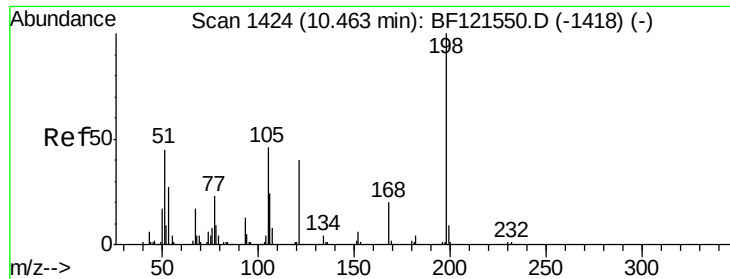


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

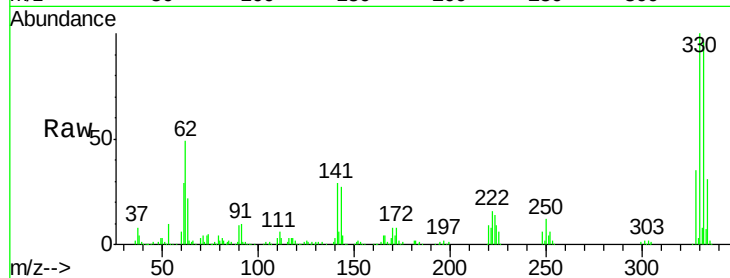




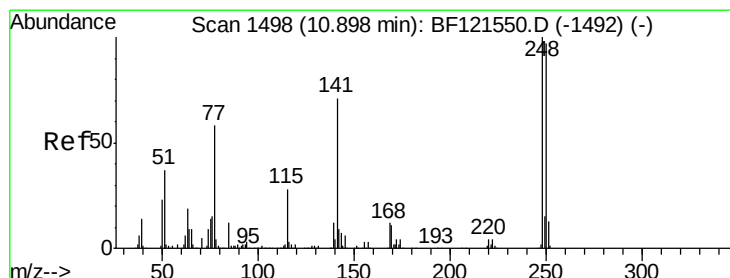
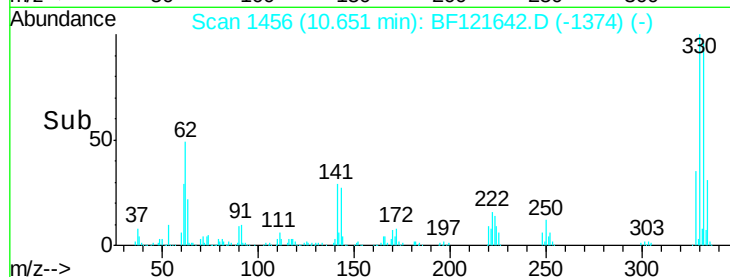
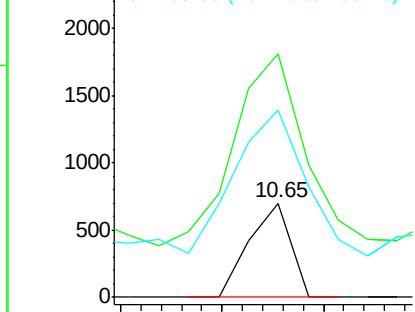
#65
 4,6-Dinitro-2-methylphenol
 Concen: 6.957 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. 0.18 min
 Lab File: BF121642.D
 Acq: 21 Sep 2020 23:14

Instrument :
 BNA_F
 ClientSampled :
 H-1

Tot Ion:198 Resp: 396
 Ion Ratio Lower Upper
 198 100
 51 258.6 20.3 60.3#
 105 198.6 20.2 60.2#

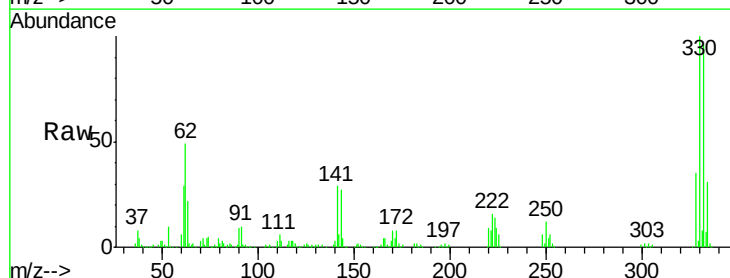


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

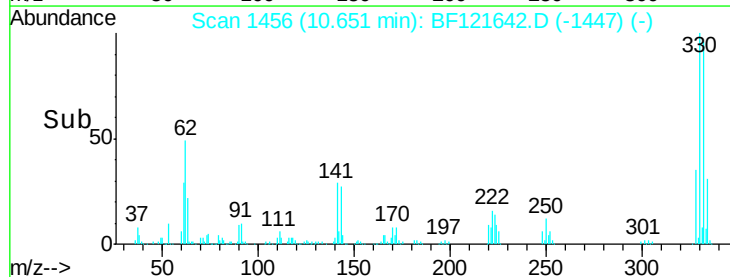
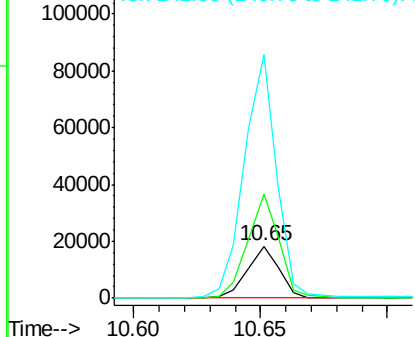


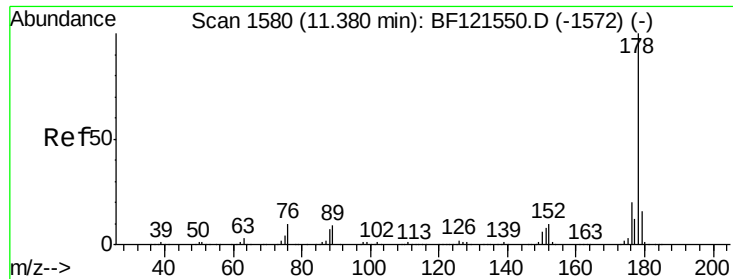
#67
 4-Bromophenyl-phenylether
 Concen: 2.628 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. -0.25 min
 Lab File: BF121642.D
 Acq: 21 Sep 2020 23:14

Tgt Ion:248 Resp: 15758
 Ion Ratio Lower Upper
 248 100
 250 201.9 79.4 119.0#
 141 471.5 52.2 78.4#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

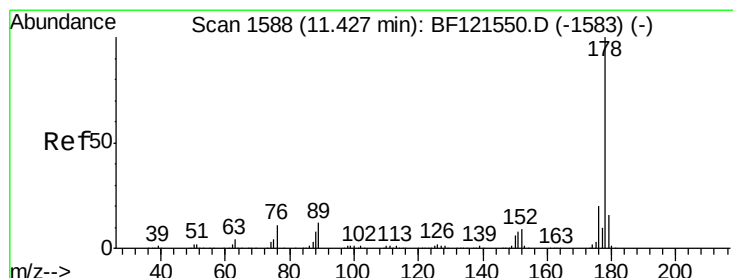
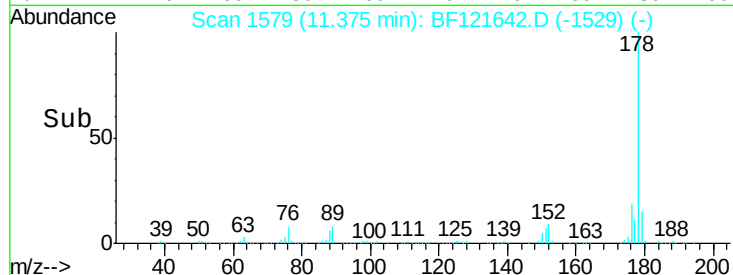
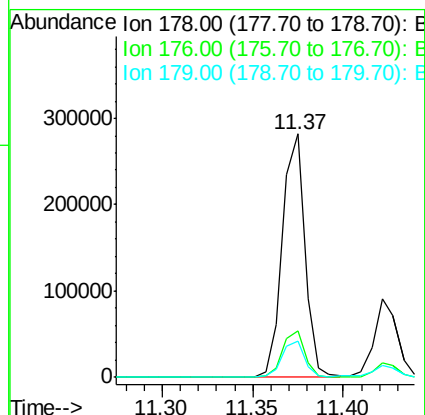
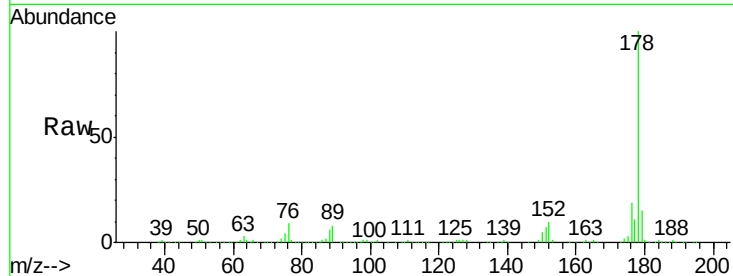




#71
Phenanthrene
Concen: 8.541 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

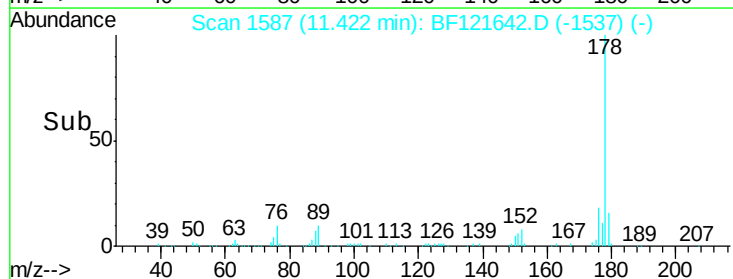
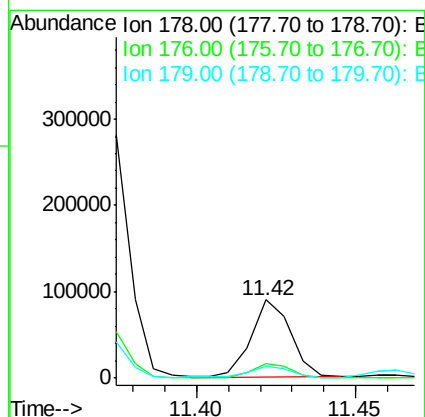
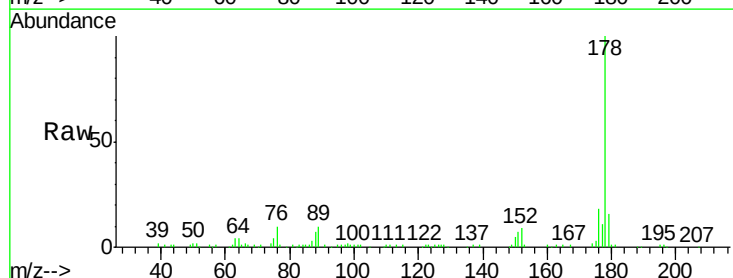
Instrument :
BNA_F
ClientSampleId :
H-1

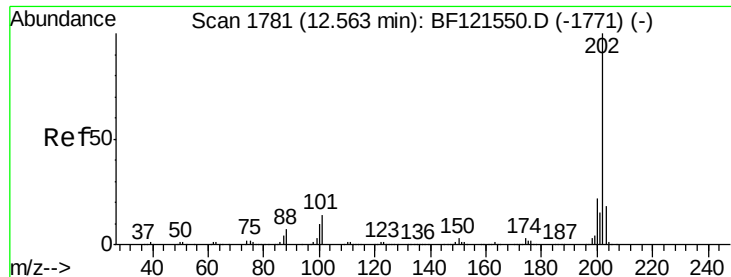
Tot Ion:178 Resp: 245092
Ion Ratio Lower Upper
178 100
176 18.8 15.9 23.9
179 15.1 12.6 18.8



#72
Anthracene
Concen: 2.606 ng
RT: 11.42 min Scan# 1587
Delta R.T. -0.01 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

Tgt Ion:178 Resp: 77176
Ion Ratio Lower Upper
178 100
176 18.0 15.6 23.4
179 15.5 12.6 19.0

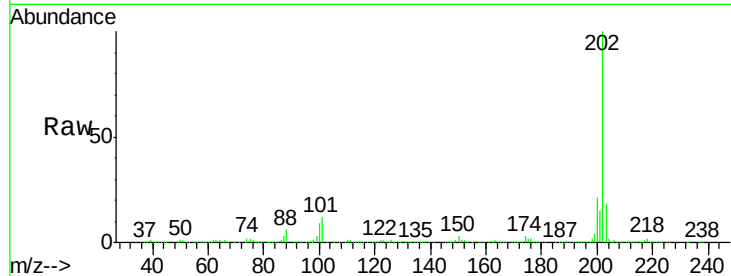




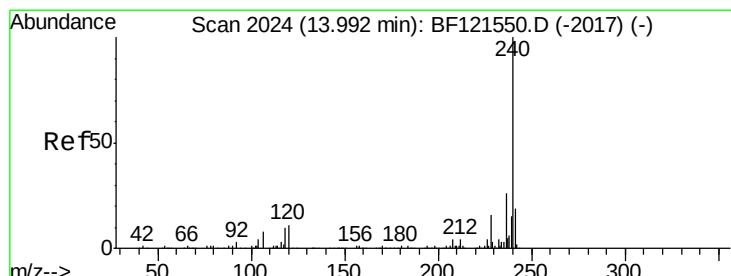
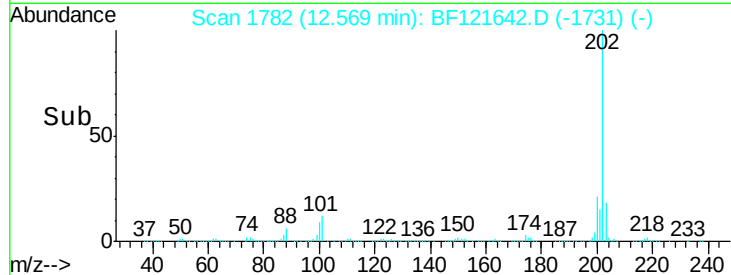
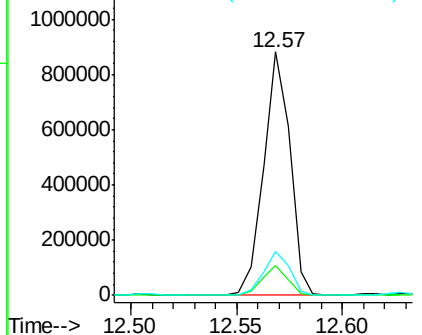
#75
Fluoranthene
Concen: 24.997 ng
RT: 12.57 min Scan# 1782
Delta R.T. 0.00 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

Instrument :
BNA_F
ClientSampleId :
H-1

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	31.9
203	18.3	0.0	37.8

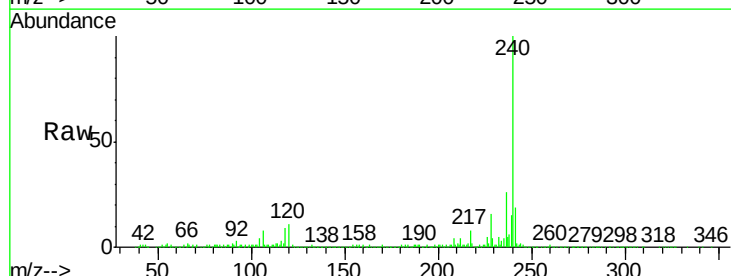


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

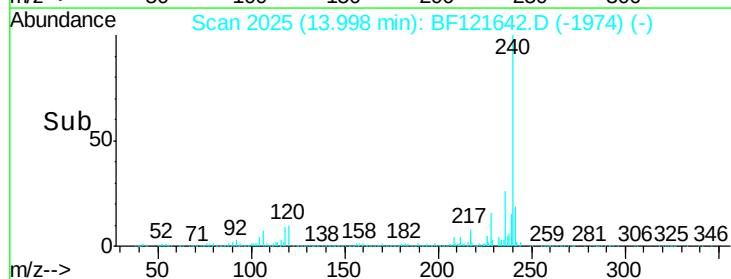
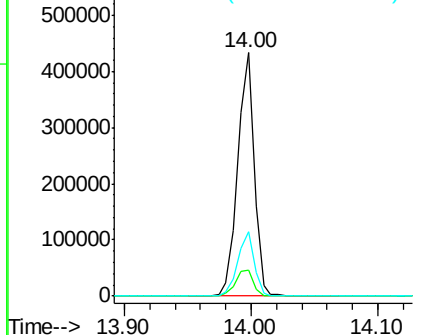


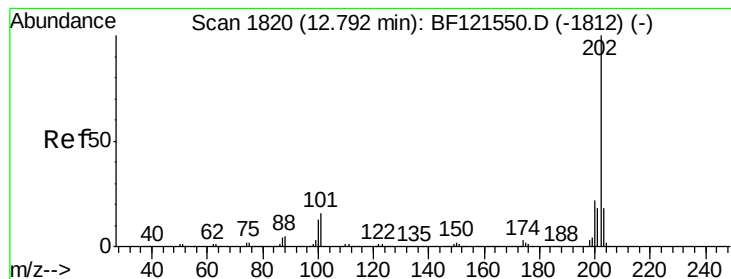
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.00 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.2	13.8
236	26.4	20.4	30.6



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: 24.309 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

Instrument :

BNA_F

ClientSampleId :

H-1

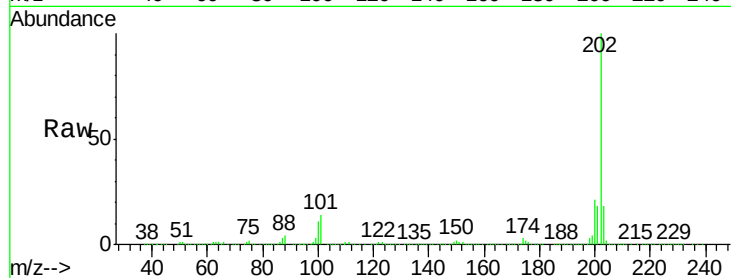
Tot Ion:202 Resp: 684033

Ion Ratio Lower Upper

202 100

200 21.4 17.8 26.6

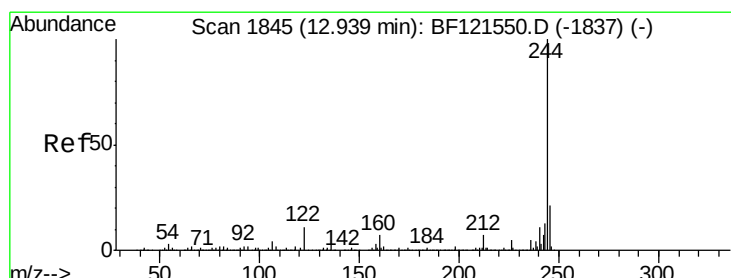
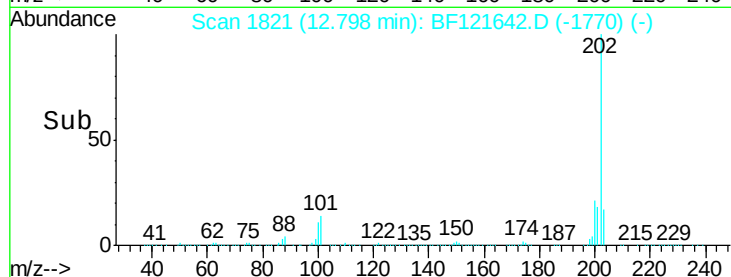
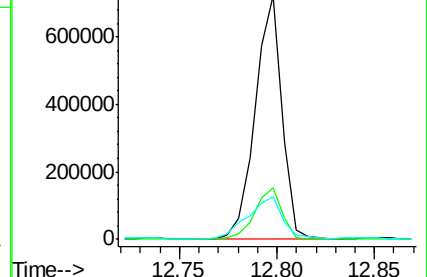
203 17.7 14.4 21.6



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: 54.609 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

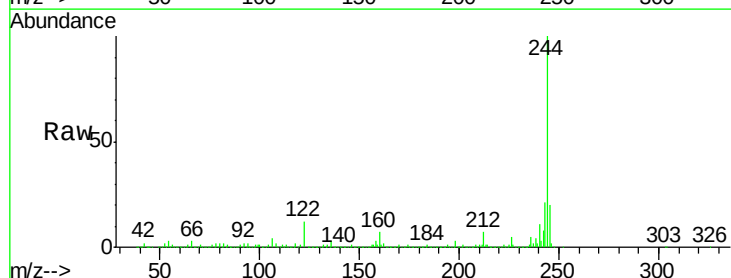
Tgt Ion:244 Resp: 1038163

Ion Ratio Lower Upper

244 100

212 7.2 5.5 8.3

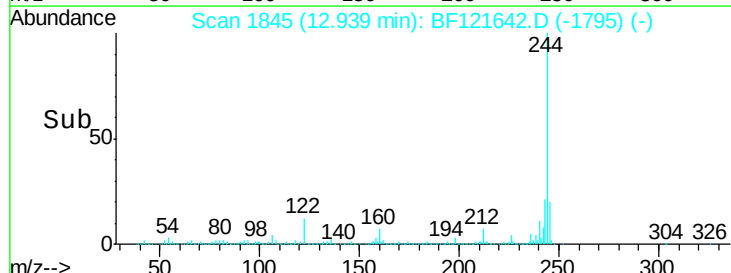
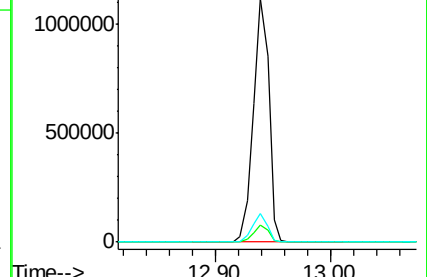
122 11.6 7.4 11.0#

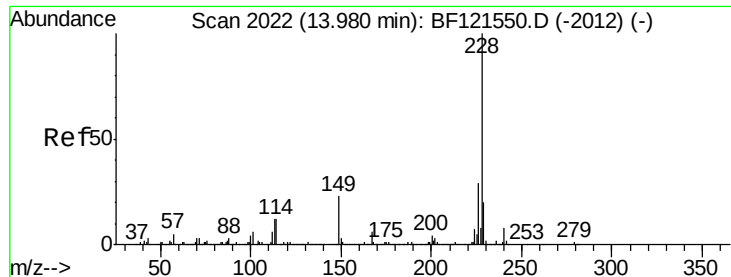


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

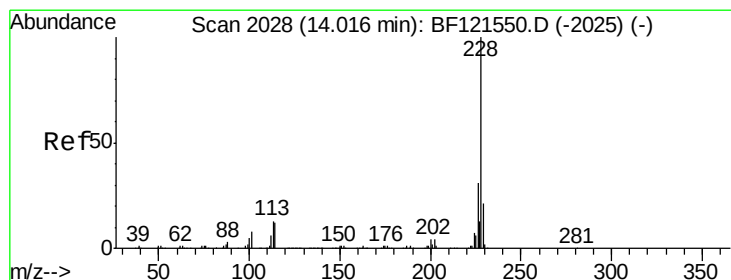
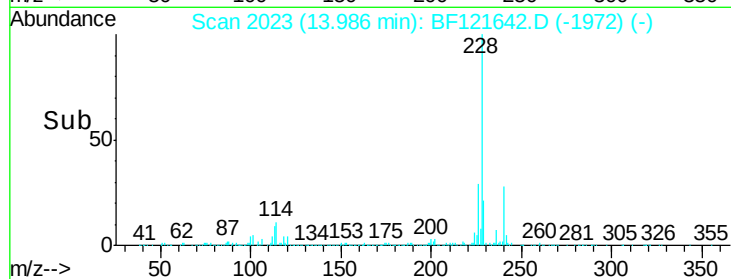
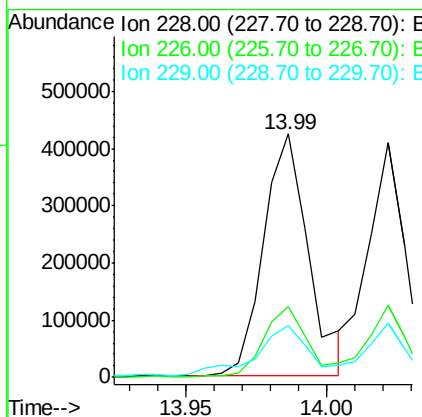
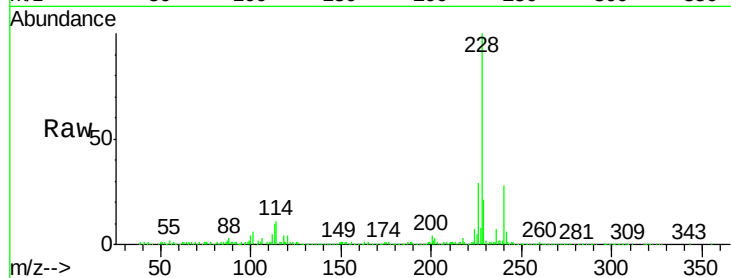




#81
Benzo(a)anthracene
Concen: 19.173 ng
RT: 13.99 min Scan# 2023
Delta R.T. 0.00 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

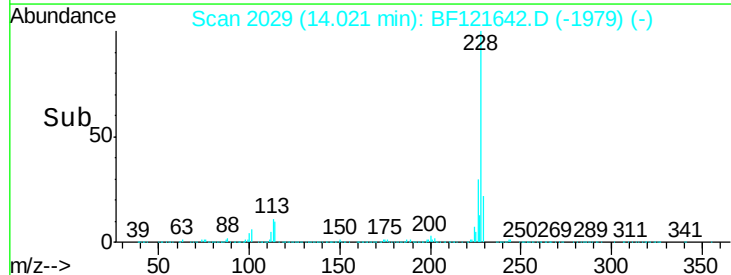
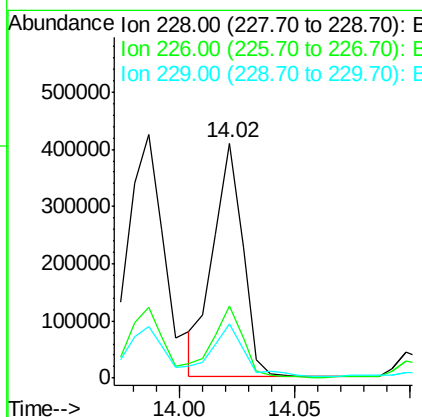
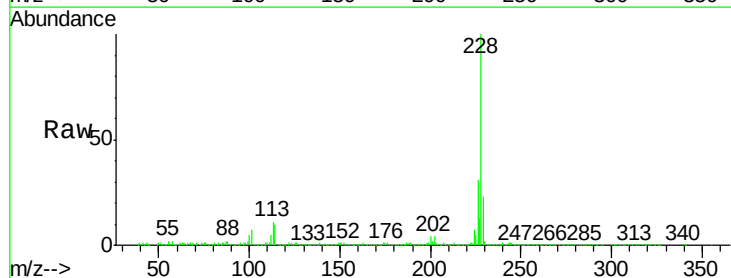
Instrument :
BNA_F
ClientSampleId :
H-1

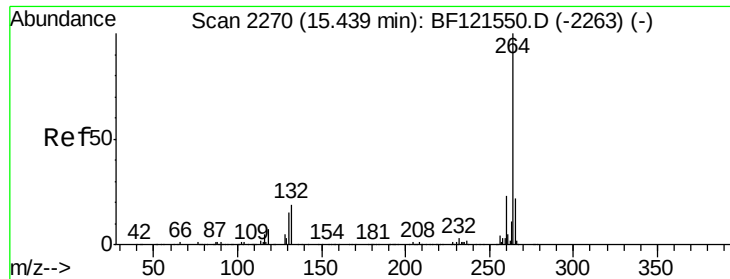
Tot Ion:228 Resp: 467173
Ion Ratio Lower Upper
228 100
226 29.1 22.6 33.8
229 21.1 16.2 24.2



#83
Chrysene
Concen: 14.777 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

Tgt Ion:228 Resp: 364612
Ion Ratio Lower Upper
228 100
226 30.5 25.0 37.4
229 22.9 16.0 24.0

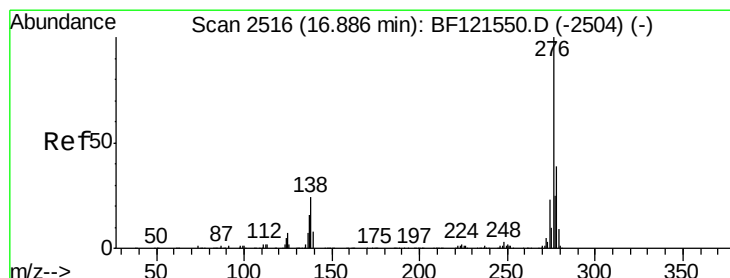
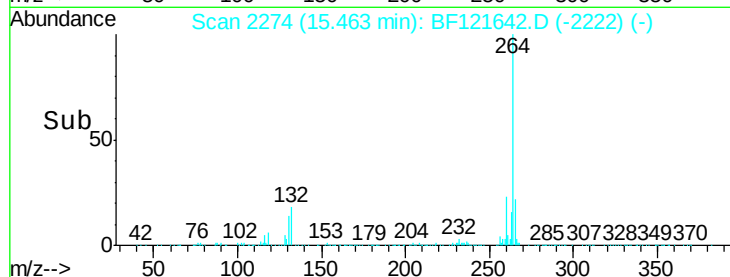
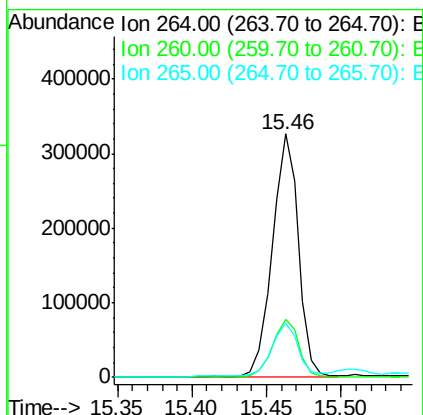
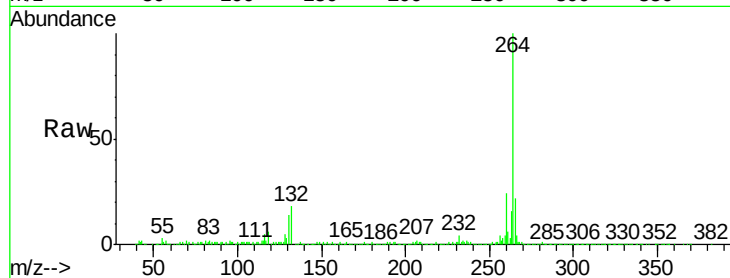




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.01 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

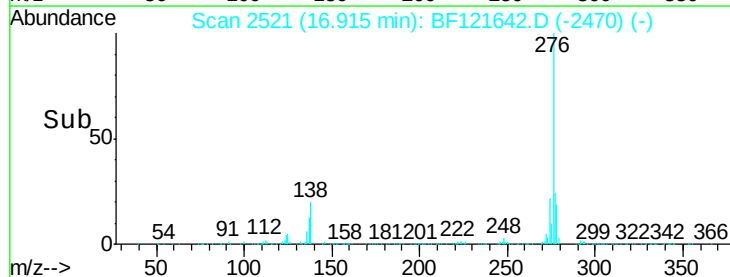
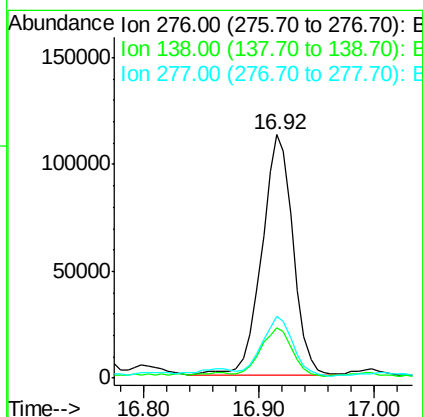
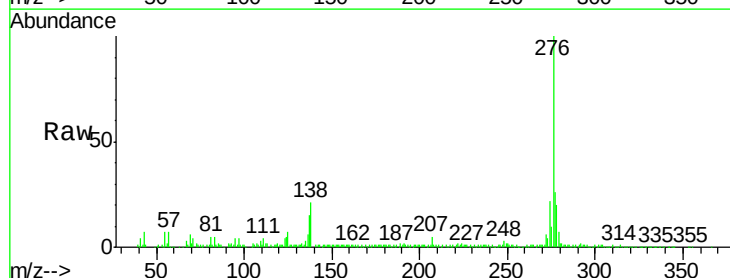
Instrument :
BNA_F
ClientSampleId :
H-1

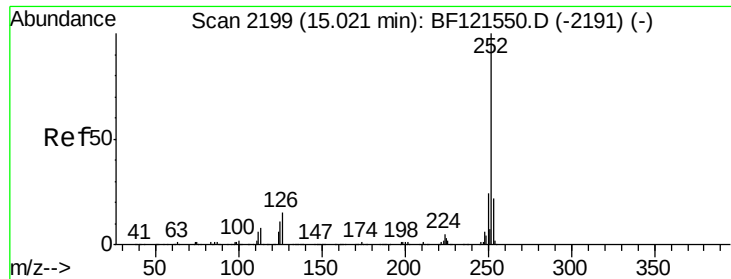
Tot Ion:264 Resp: 395616
Ion Ratio Lower Upper
264 100
260 23.7 18.8 28.2
265 22.3 17.3 25.9



#87
Indeno(1,2,3-cd)pyrene
Concen: 8.257 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.00 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

Tgt Ion:276 Resp: 212738
Ion Ratio Lower Upper
276 100
138 20.1 19.0 28.6
277 24.4 20.2 30.2

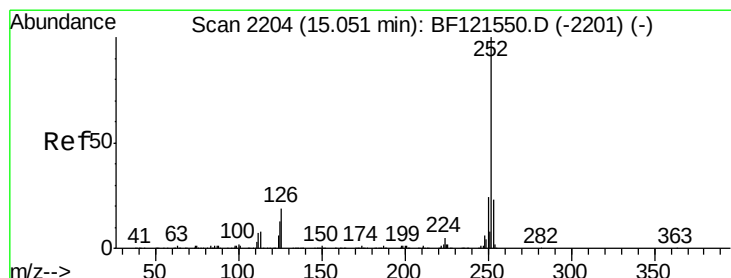
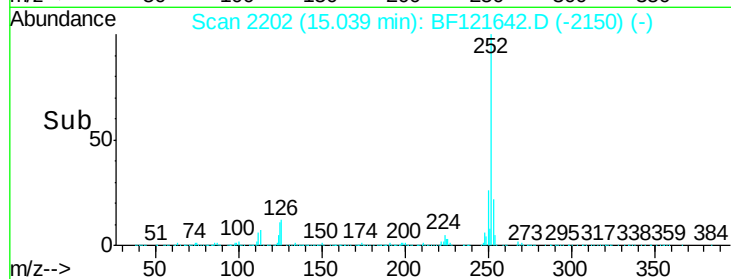
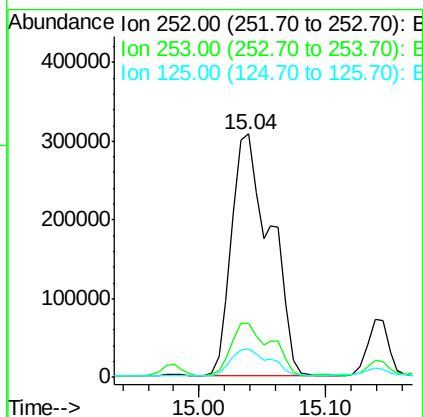
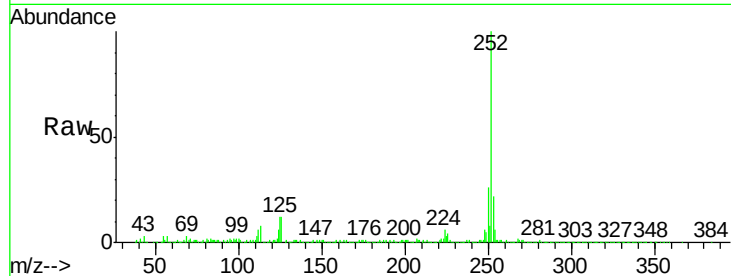




#88
Benzo(b)fluoranthene
Concen: 24.678 ng
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

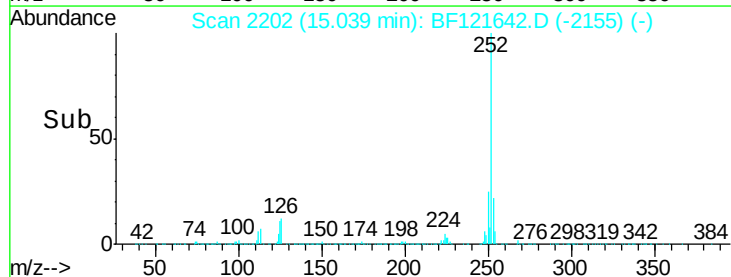
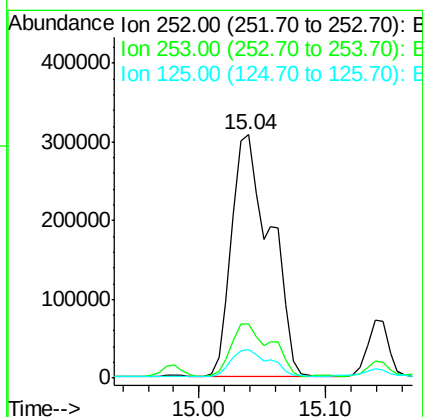
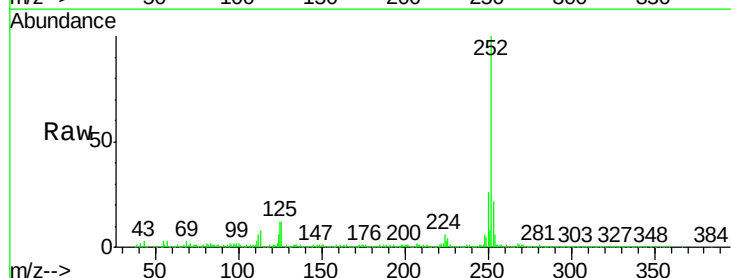
Instrument :
BNA_F
ClientSampleId :
H-1

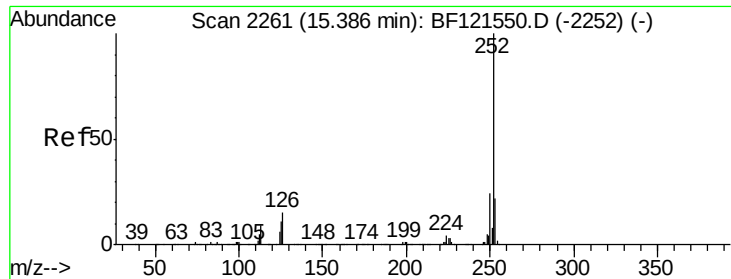
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.2	27.4
125	11.8	8.5	12.7



#89
Benzo(k)fluoranthene
Concen: 26.948 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BF121642.D
Acq: 21 Sep 2020 23:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.8
125	11.8	8.4	12.6





#90

Benzo(a)pyrene

Concen: 16.387 ng

RT: 15.40 min Scan# 2263

Delta R.T. 0.00 min

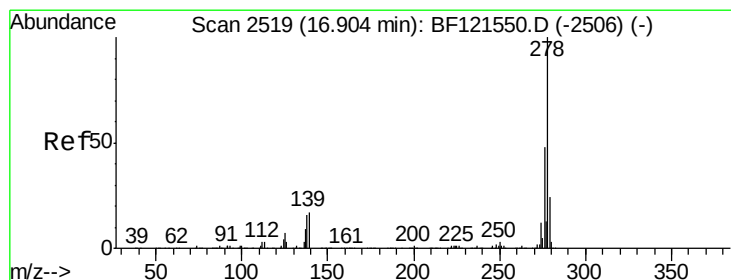
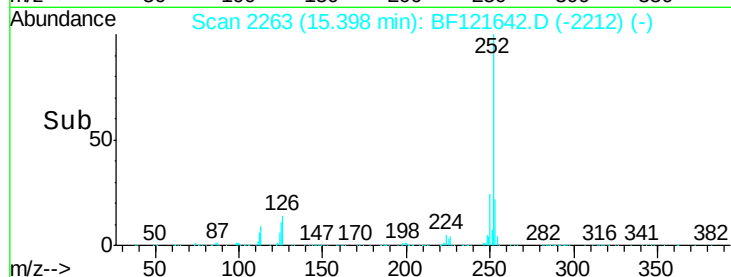
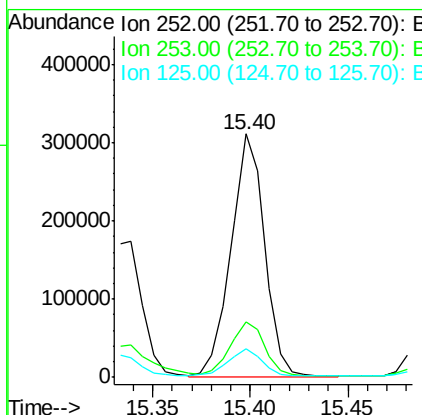
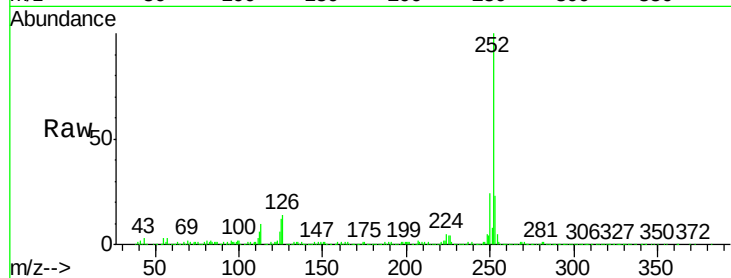
Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

Instrument :
BNA_F
ClientSampleId :
H-1

Tot Ion:252 Resp: 368406

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.2
125	11.8	9.1	13.7



#91

Dibenzo(a,h)anthracene

Concen: 2.382 ng

RT: 17.09 min Scan# 2551

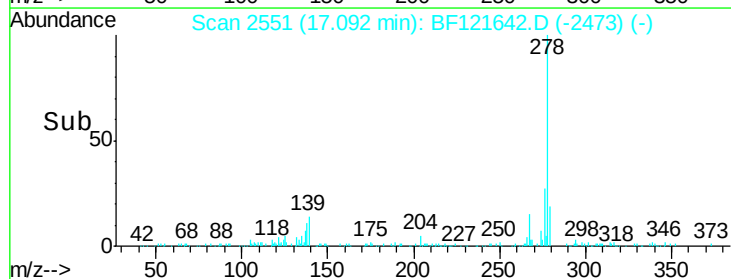
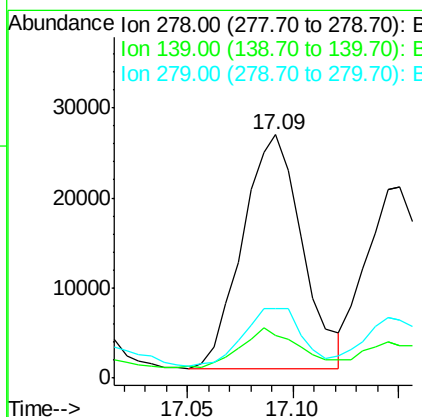
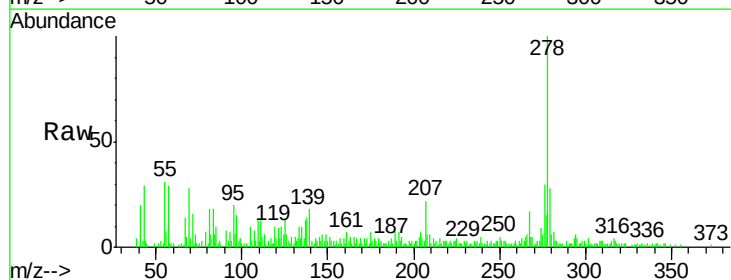
Delta R.T. 0.16 min

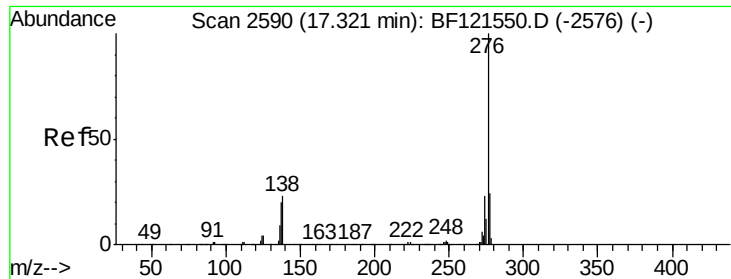
Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

Tgt Ion:278 Resp: 51083

Ion	Ratio	Lower	Upper
278	100		
139	17.8	12.0	18.0
279	28.4	19.4	29.2





#92

Benzo(a,h,i)perylene

Concen: 8.538 ng

RT: 17.35 min Scan# 2595

Delta R.T. -0.01 min

Lab File: BF121642.D

Acq: 21 Sep 2020 23:14

Instrument :

BNA_F

ClientSampleId :

H-1

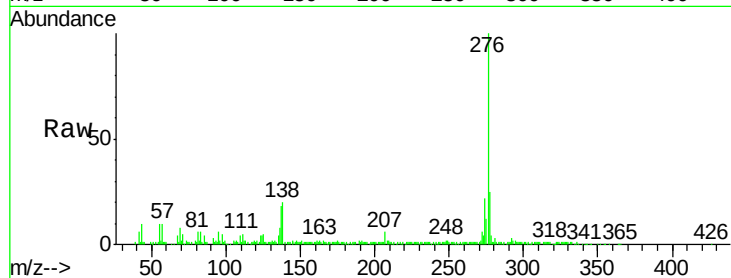
Tot Ion:276 Resp: 179990

Ion Ratio Lower Upper

276 100

277 24.8 19.3 28.9

138 20.1 16.9 25.3



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

