

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080620\
 Data File : BF121218.D
 Acq On : 6 Aug 2020 23:14
 Operator : JU/CG
 Sample : L3573-03 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-03-016-B

Quant Time: Aug 07 00:34:32 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 29 14:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	140783	20.00	ng	-0.01
21) Naphthalene-d8	8.07	136	559740	20.00	ng	-0.01
39) Acenaphthene-d10	9.83	164	289307	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	530829	20.00	ng	0.00
76) Chrysene-d12	13.96	240	386193	20.00	ng	0.00
86) Perylene-d12	15.42	264	363245	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	399405	46.51	ng	-0.01
7) Phenol-d6	6.43	99	487177	43.92	ng	-0.02
23) Nitrobenzene-d5	7.35	82	316863	32.76	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	139379	44.01	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	613642	31.67	ng	-0.01
79) Terphenyl-d14	12.90	244	549361	30.92	ng	0.00

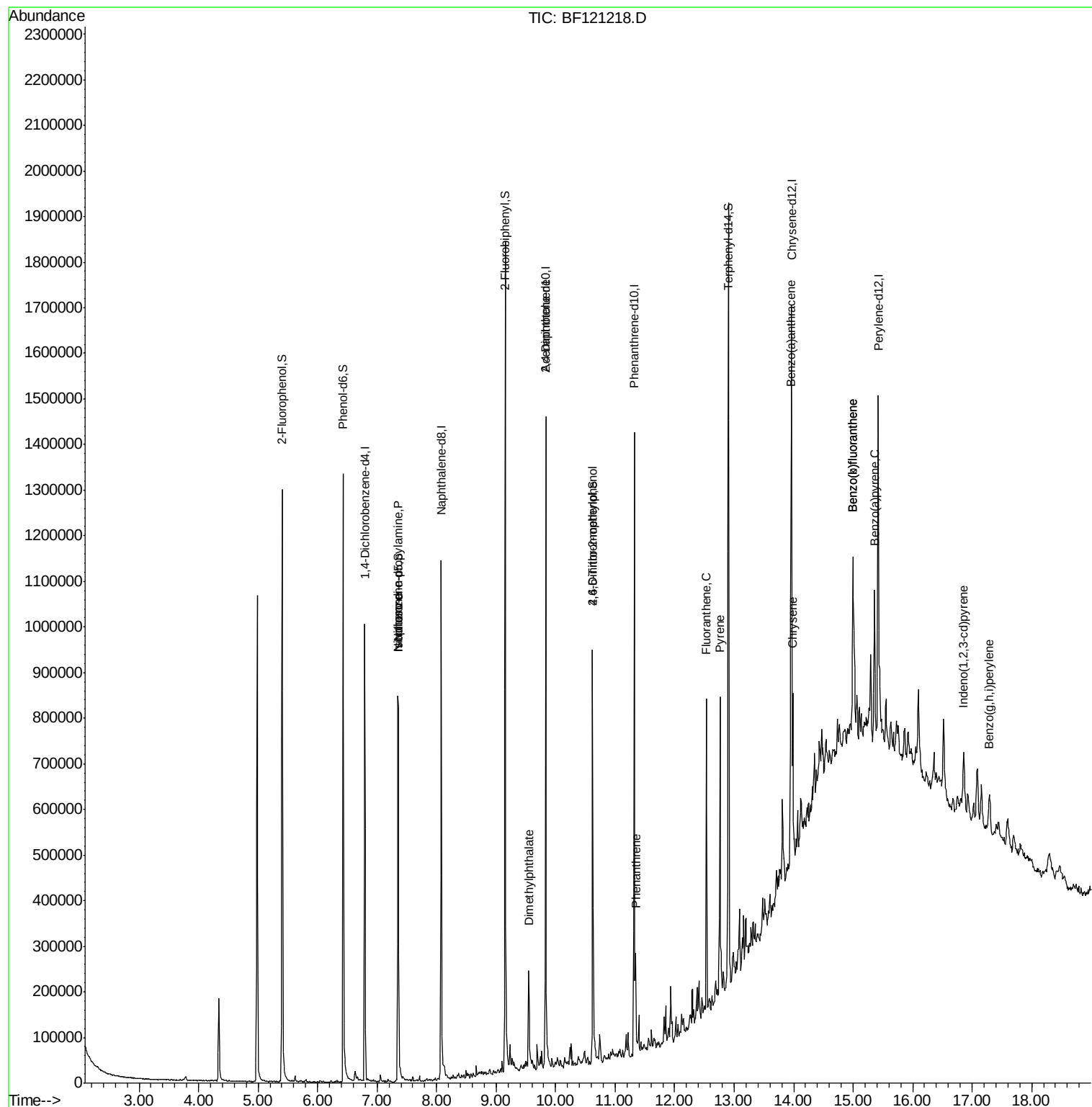
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.43	77	699	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.35	70	40272	6.384	ng	# 80
25) Isophorone	7.35	82	310724	16.095	ng	# 62
50) Dimethylphthalate	9.55	163	98976	4.742	ng	# 98
57) 2,4-Dinitrotoluene	9.83	165	37938	6.443	ng	# 29
65) 4,6-Dinitro-2-methylphenol	10.62	198	243	3.915	ng	# 1
71) Phenanthrene	11.34	178	77987	2.857	ng	# 97
75) Fluoranthene	12.53	202	273974	9.054	ng	# 98
78) Pyrene	12.76	202	266985	9.778	ng	# 98
81) Benzo(a)anthracene	13.95	228	174009	7.441	ng	# 98
83) Chrysene	13.99	228	154405	6.283	ng	# 96
87) Indeno(1,2,3-cd)pyrene	16.86	276	77363	3.062	ng	# 97
88) Benzo(b)fluoranthene	15.00	252	289033	13.164	ng	# 94
89) Benzo(k)fluoranthene	15.00	252	289033	14.434	ng	# 95
90) Benzo(a)pyrene	15.36	252	153377	7.656	ng	# 96
92) Benzo(g,h,i)perylene	17.29	276	74363	3.655	ng	# 96

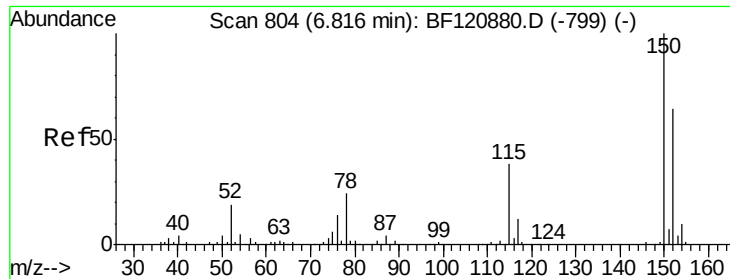
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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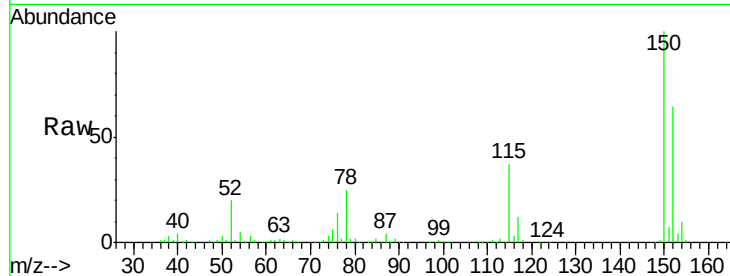


#1

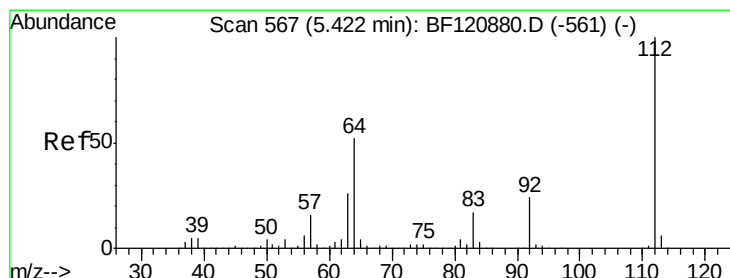
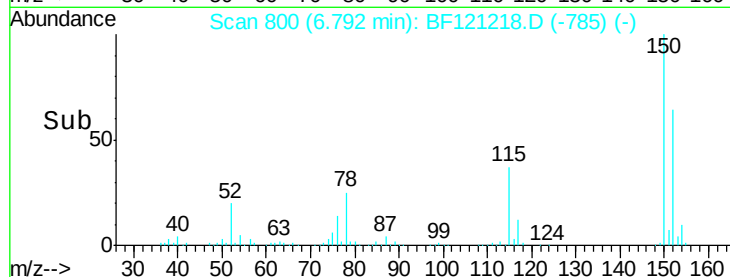
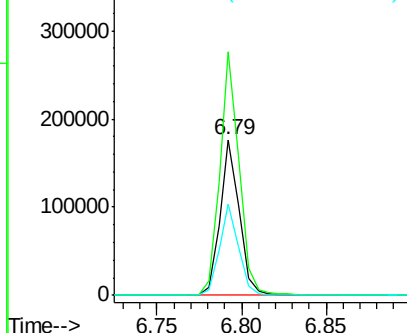
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: BF121218.D
 Acq: 6 Aug 2020 23:14

Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-03-016-B

Tot Ion:152 Resp: 140783
 Ion Ratio Lower Upper
 152 100
 150 156.7 125.6 188.4
 115 58.7 46.2 69.2



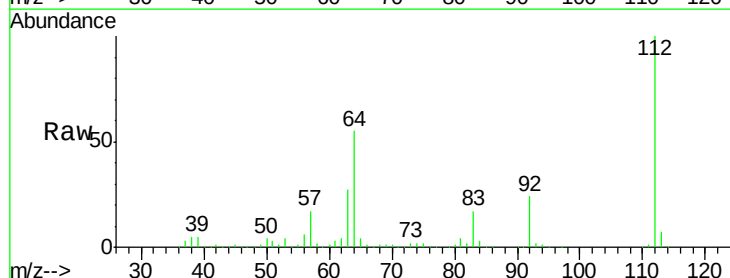
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



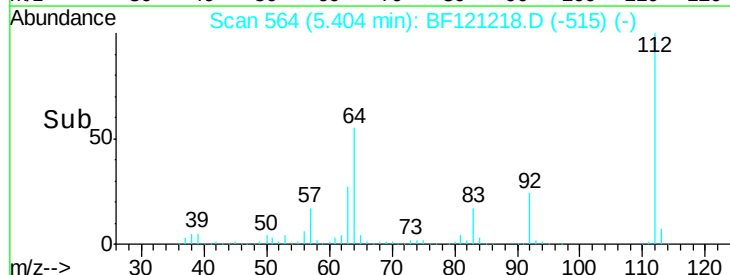
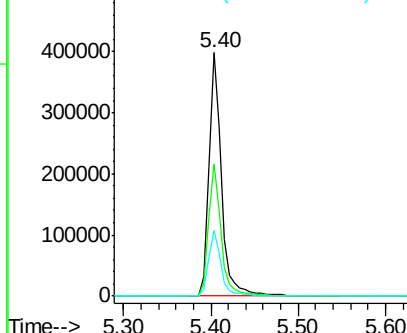
#5

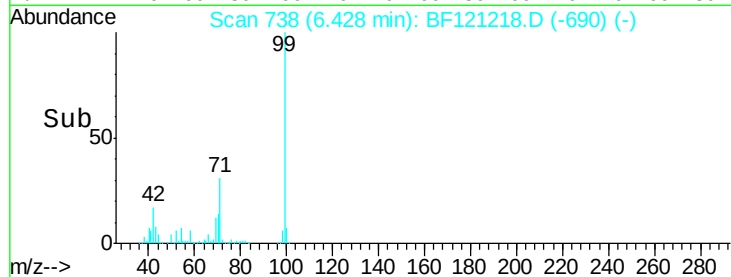
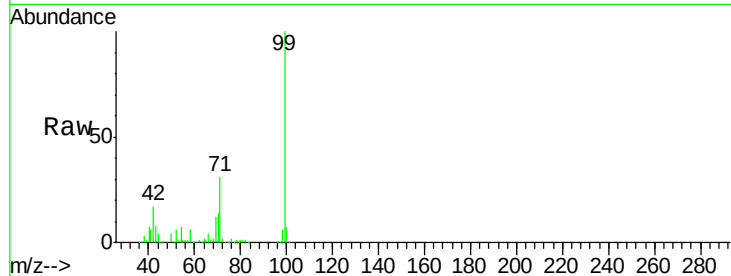
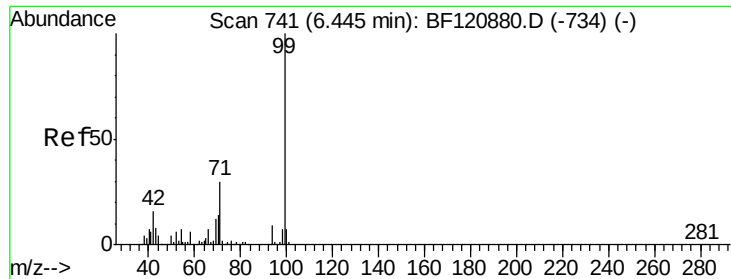
2-Fluorophenol
 Concen: 46.509 ng
 RT: 5.40 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: BF121218.D
 Acq: 6 Aug 2020 23:14

Tgt Ion:112 Resp: 399405
 Ion Ratio Lower Upper
 112 100
 64 54.5 43.9 65.9
 63 27.2 22.7 34.1



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 43.917 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.02 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

Instrument :

BNA_F

ClientSampleId :

FK-GF-03-016-B

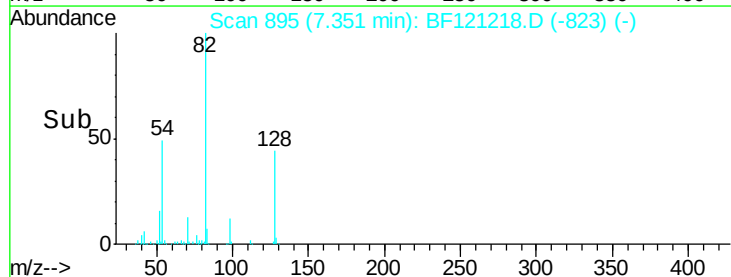
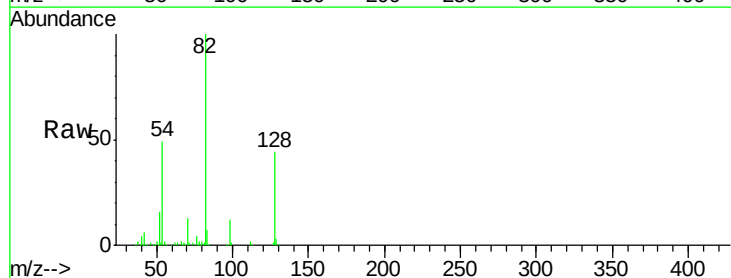
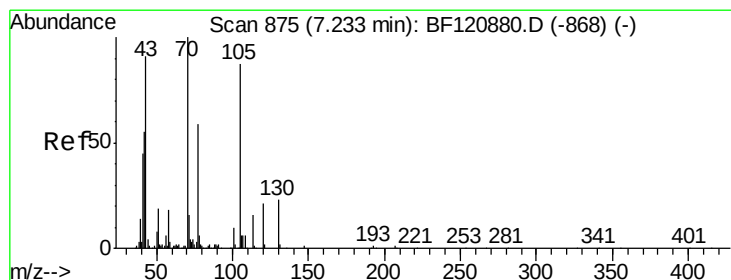
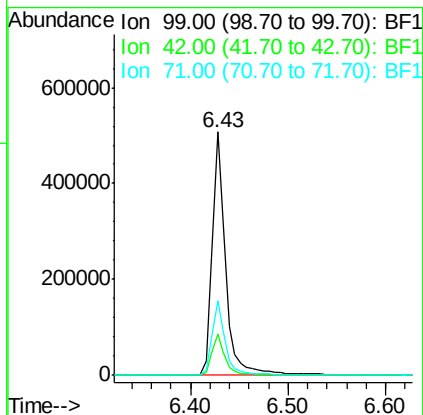
Tot Ion: 99 Resp: 487177

Ion Ratio Lower Upper

99 100

42 17.2 13.5 20.3

71 30.6 25.0 37.4



#19

n-Nitroso-di-n-propylamine

Concen: 6.384 ng

RT: 7.35 min Scan# 895

Delta R.T. 0.12 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

Tgt Ion: 70 Resp: 40272

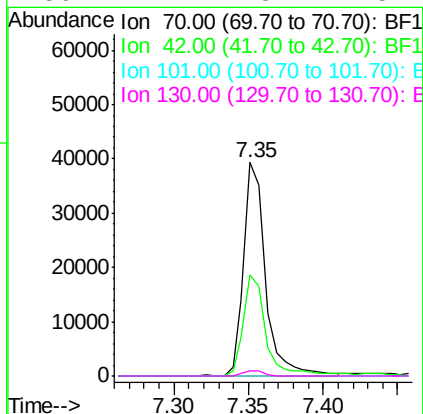
Ion Ratio Lower Upper

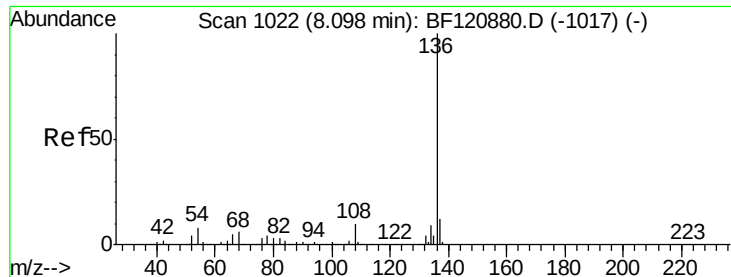
70 100

42 47.5 43.3 64.9

101 0.0 8.4 12.6#

130 2.4 18.7 28.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

Instrument :

BNA_F

ClientSampleId :

FK-GF-03-016-B

Tot Ion:136 Resp: 559740

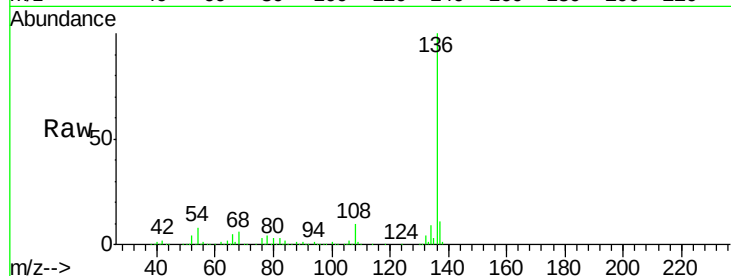
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 8.0 6.1 9.1

68 6.3 5.0 7.6

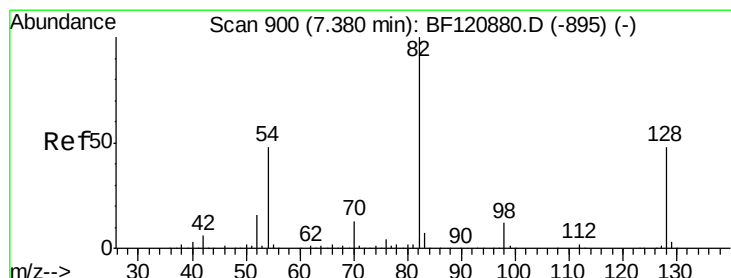
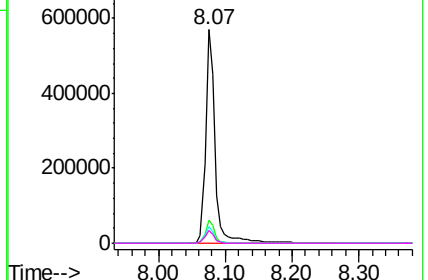
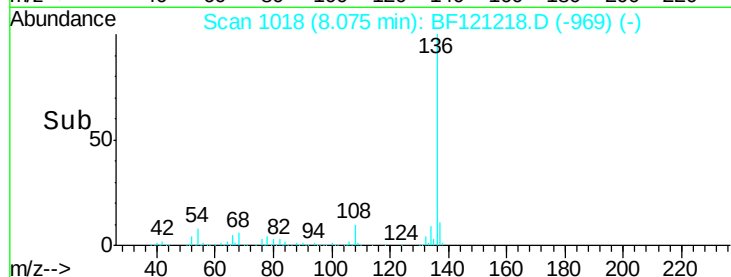


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 32.756 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.02 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

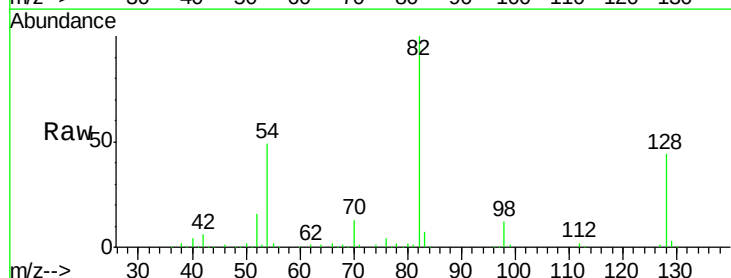
Tgt Ion: 82 Resp: 316863

Ion Ratio Lower Upper

82 100

128 43.5 39.2 58.8

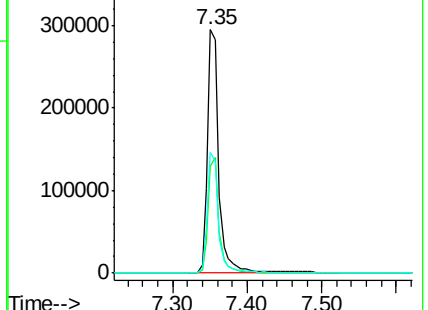
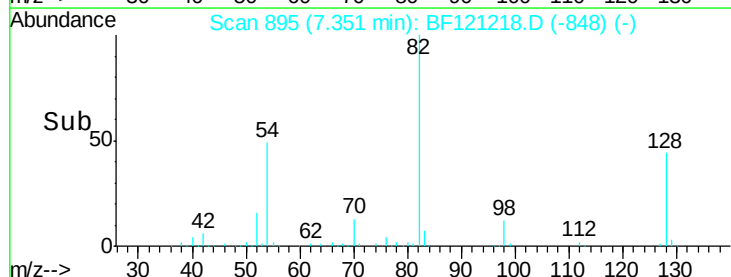
54 49.4 37.8 56.8

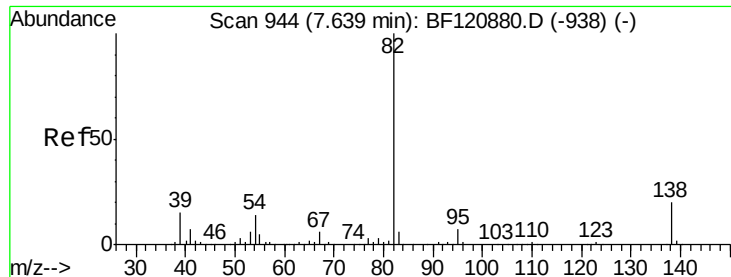


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 16.095 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.28 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

Instrument :

BNA_F

ClientSampleId :

FK-GF-03-016-B

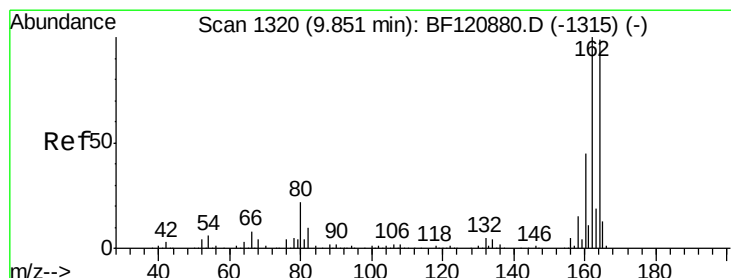
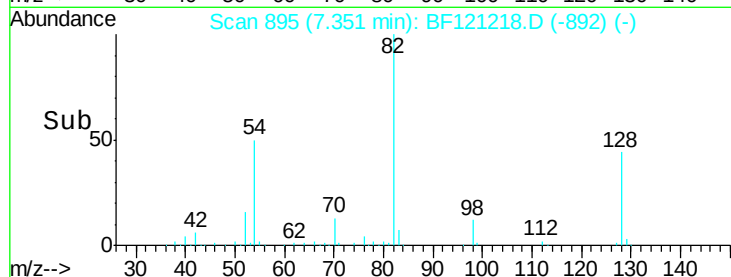
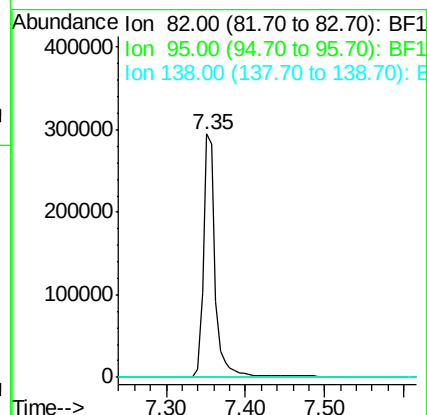
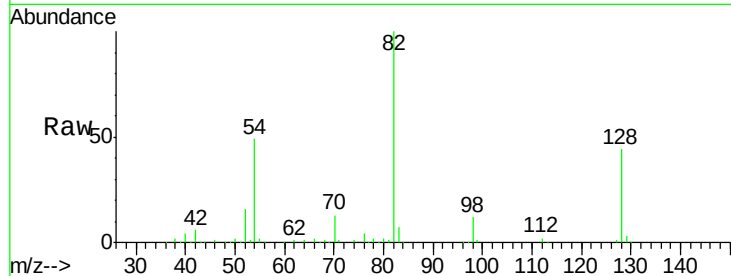
Tot Ion: 82 Resp: 310724

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

138 0.0 16.2 24.2#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

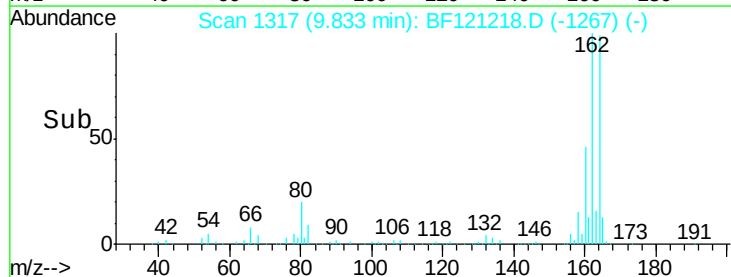
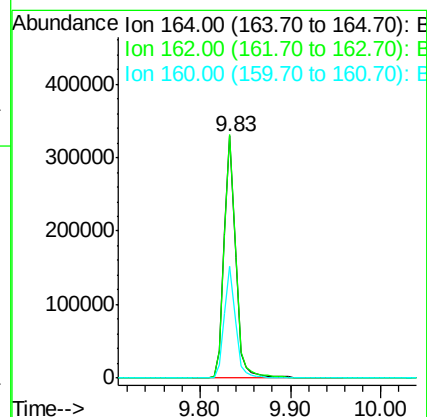
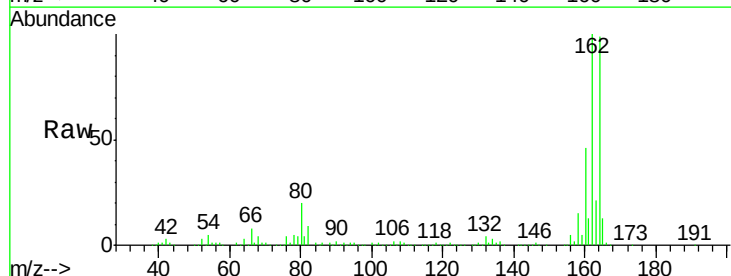
Tgt Ion:164 Resp: 289307

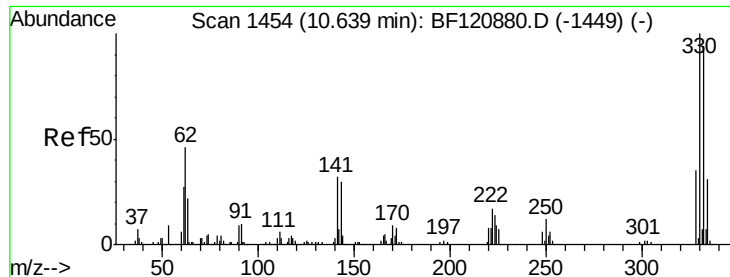
Ion Ratio Lower Upper

164 100

162 100.7 82.2 123.2

160 46.5 37.2 55.8





#42

2,4,6-Tribromophenol

Concen: 44.013 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

Instrument :

BNA_F

ClientSampleId :

FK-GF-03-016-B

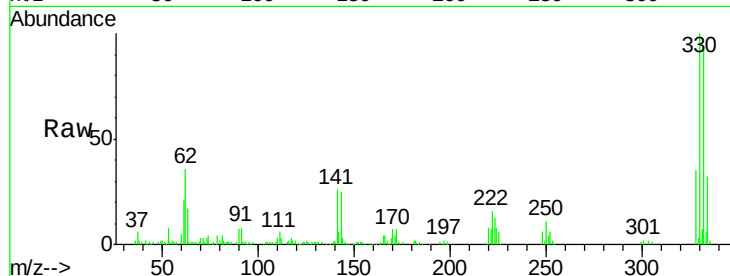
Tot Ion:330 Resp: 139379

Ion Ratio Lower Upper

330 100

332 96.5 76.1 114.1

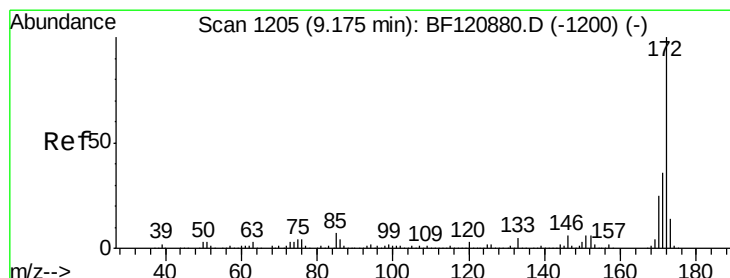
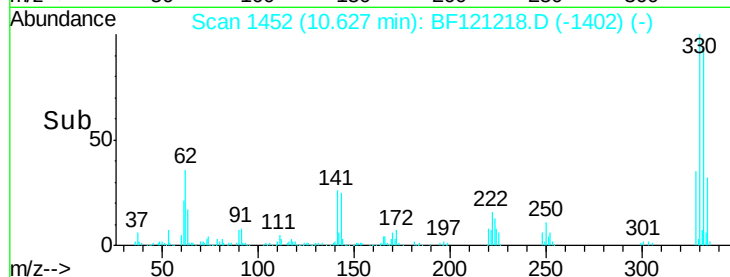
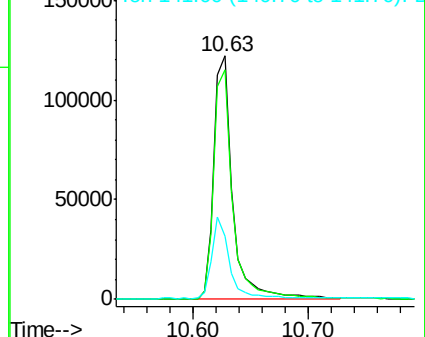
141 31.2 24.1 36.1



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: 31.669 ng

RT: 9.15 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

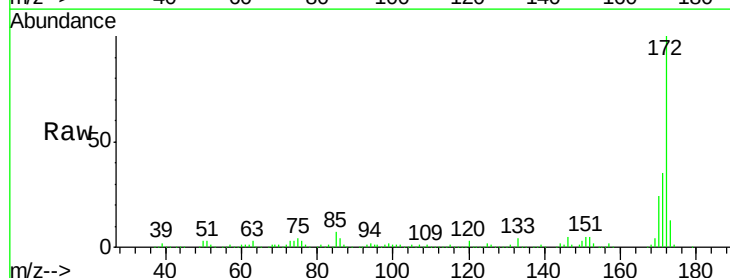
Tgt Ion:172 Resp: 613642

Ion Ratio Lower Upper

172 100

171 34.7 29.0 43.4

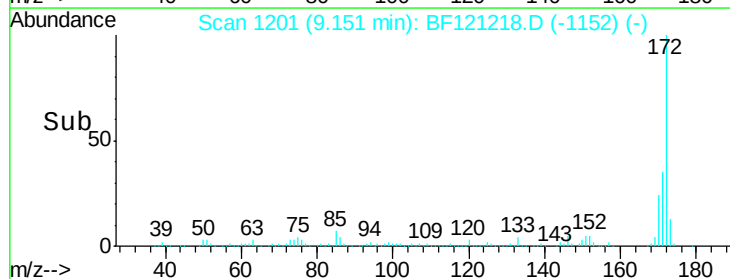
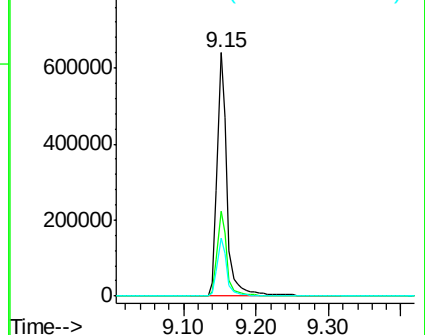
170 23.6 19.6 29.4

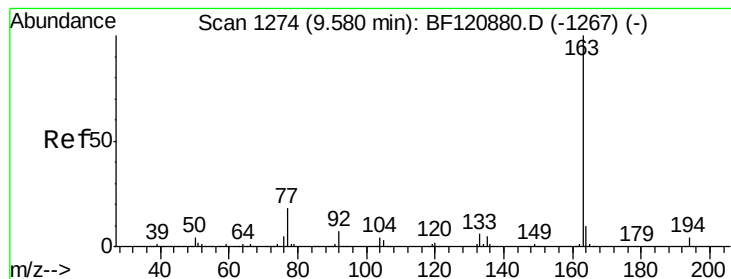


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 4.742 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.02 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

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FK-GF-03-016-B

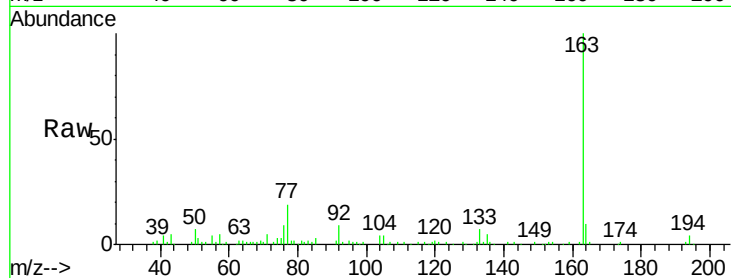
Tot Ion:163 Resp: 98976

Ion Ratio Lower Upper

163 100

194 4.1 3.0 4.4

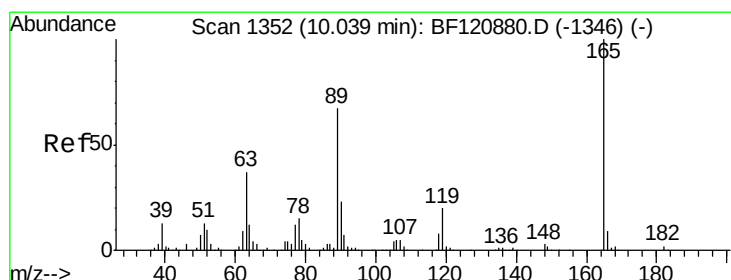
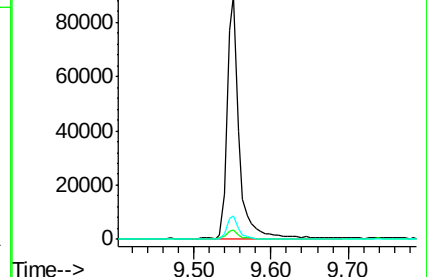
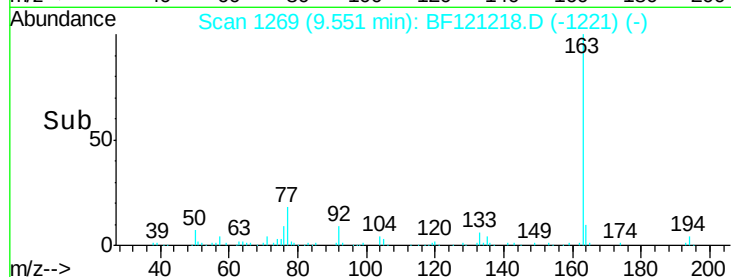
164 9.5 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

2,4-Dinitrotoluene

Concen: 6.443 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.20 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

Tgt Ion:165 Resp: 37938

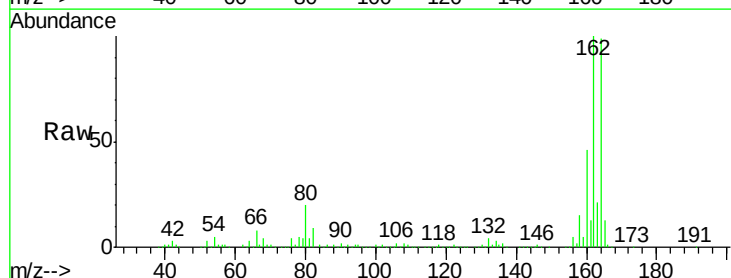
Ion Ratio Lower Upper

165 100

63 0.9 29.8 44.8#

89 1.4 50.3 75.5#

182 0.0 2.1 3.1#

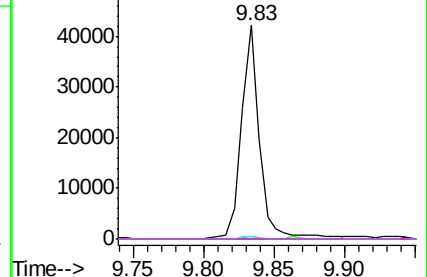
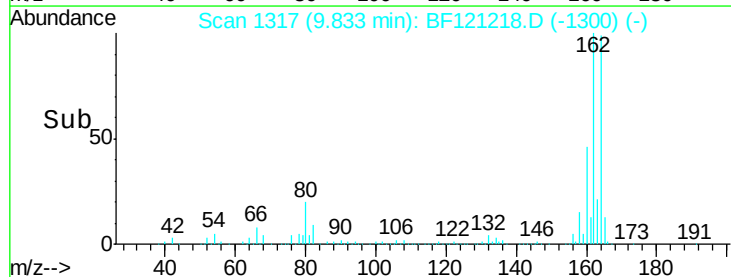


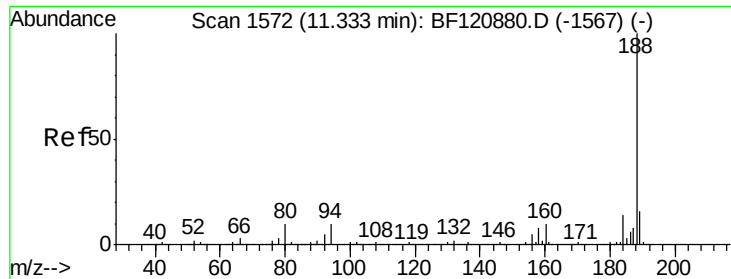
Abundance Ion 165.00 (164.70 to 165.70): E

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

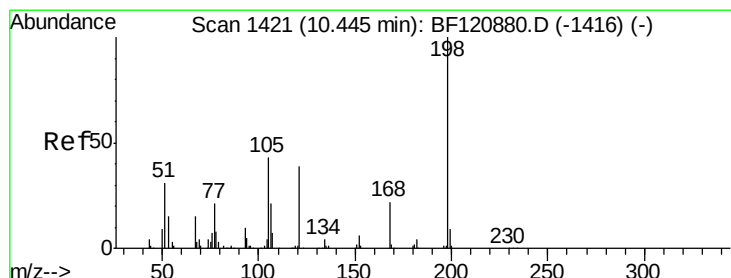
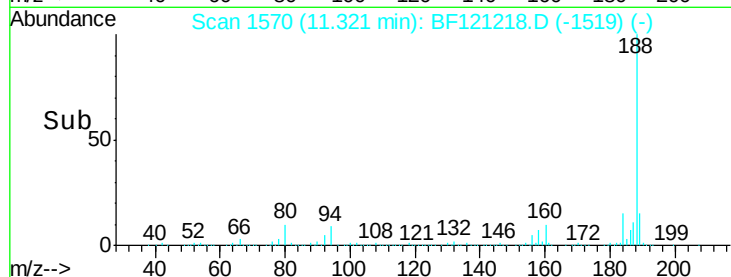
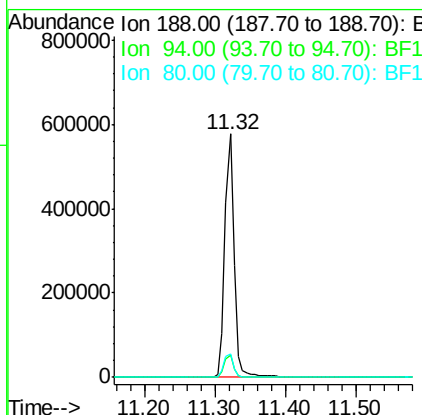
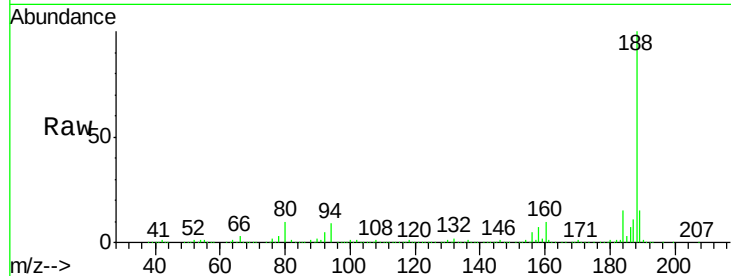




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.00 min
Lab File: BF121218.D
Acq: 6 Aug 2020 23:14

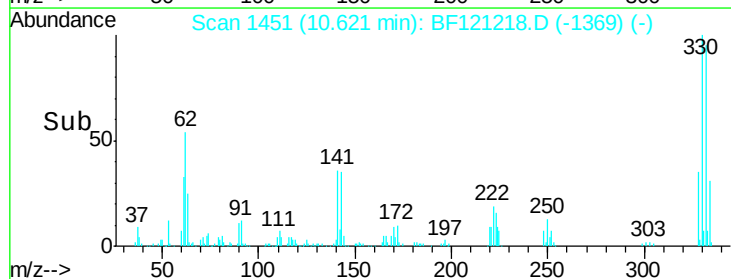
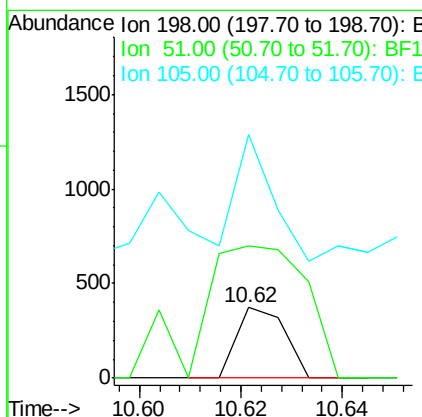
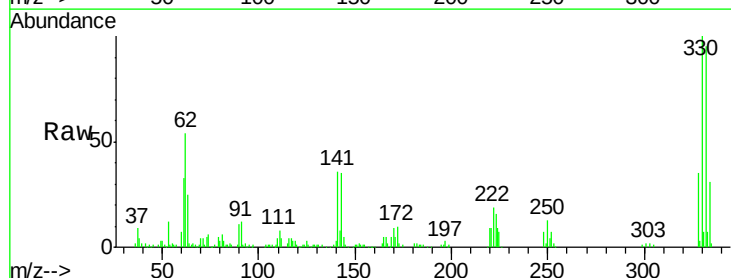
Instrument :
BNA_F
ClientSampleId :
FK-GF-03-016-B

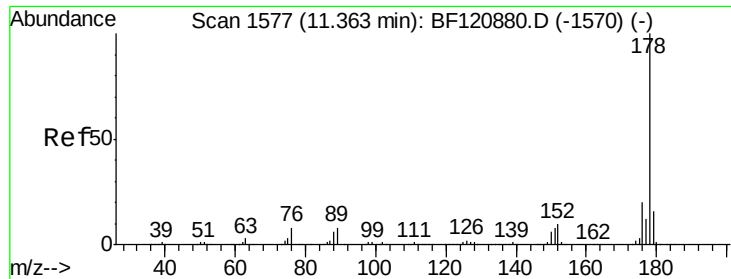
Tot Ion:188 Resp: 530829
Ion Ratio Lower Upper
188 100
94 9.3 8.0 12.0
80 9.6 8.3 12.5



#65
4,6-Dinitro-2-methylphenol
Concen: 3.915 ng
RT: 10.62 min Scan# 1451
Delta R.T. 0.18 min
Lab File: BF121218.D
Acq: 6 Aug 2020 23:14

Tgt Ion:198 Resp: 243
Ion Ratio Lower Upper
198 100
51 187.4 23.4 63.4#
105 346.2 23.7 63.7#

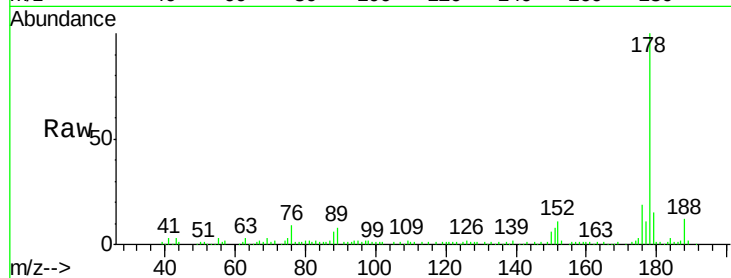




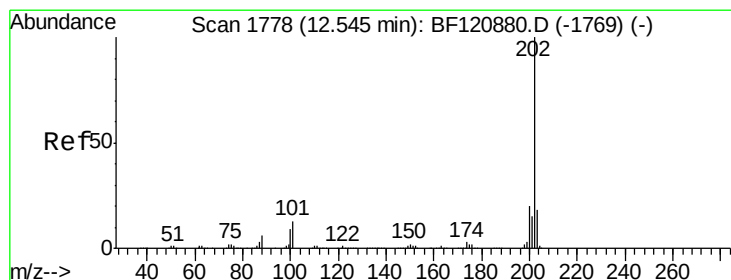
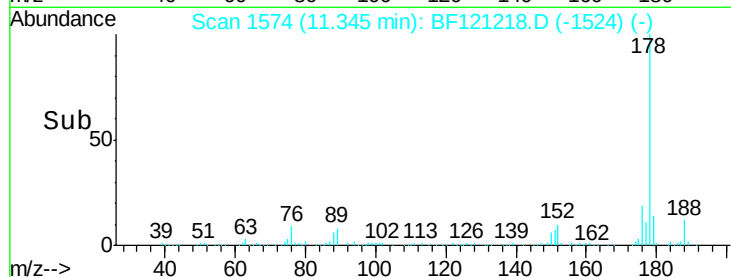
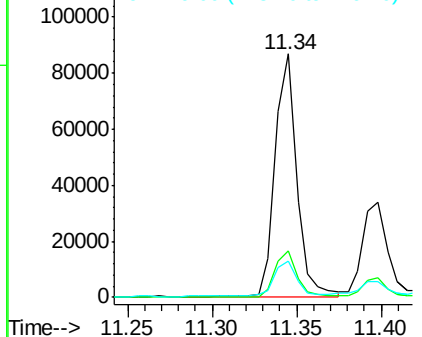
#71
Phenanthrene
Concen: 2.857 ng
RT: 11.34 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF121218.D
Acq: 6 Aug 2020 23:14

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-016-B

Tot Ion:178 Resp: 77987
Ion Ratio Lower Upper
178 100
176 18.9 16.2 24.2
179 14.8 12.6 19.0

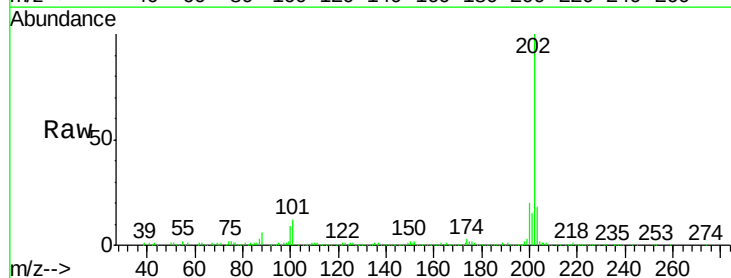


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

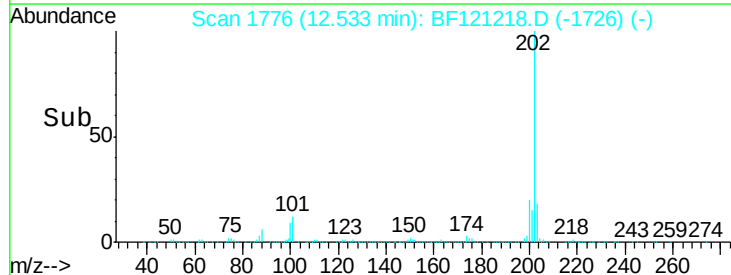
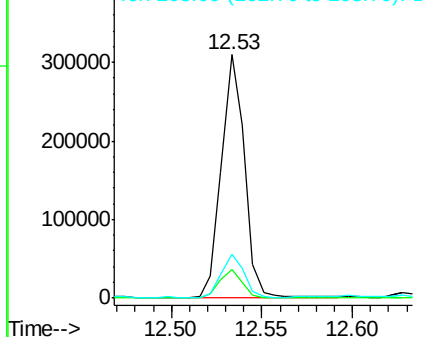


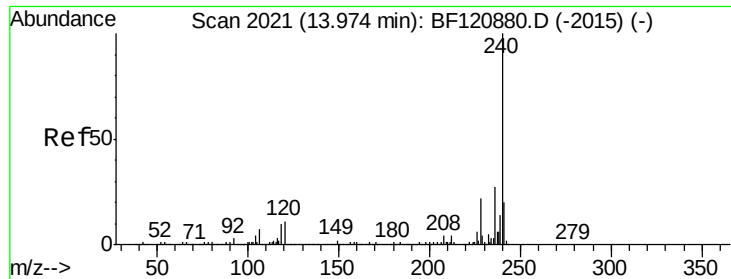
#75
Fluoranthene
Concen: 9.054 ng
RT: 12.53 min Scan# 1776
Delta R.T. -0.01 min
Lab File: BF121218.D
Acq: 6 Aug 2020 23:14

Tgt Ion:202 Resp: 273974
Ion Ratio Lower Upper
202 100
101 11.8 0.0 30.5
203 18.0 0.0 37.7



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

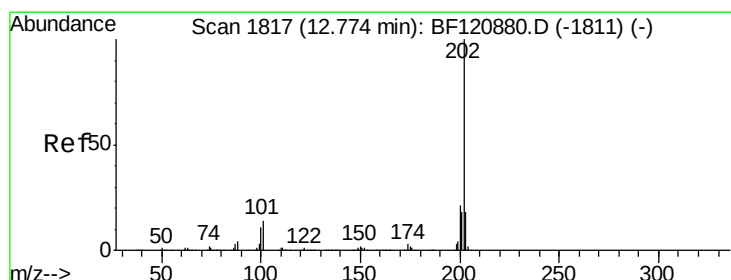
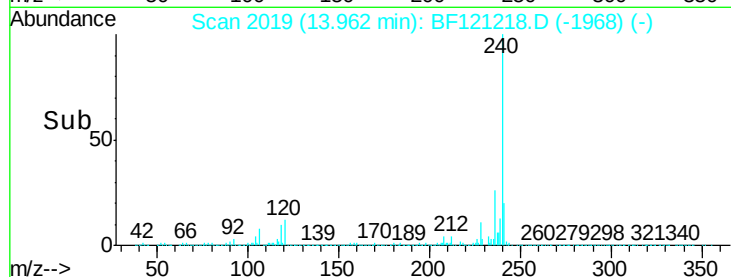
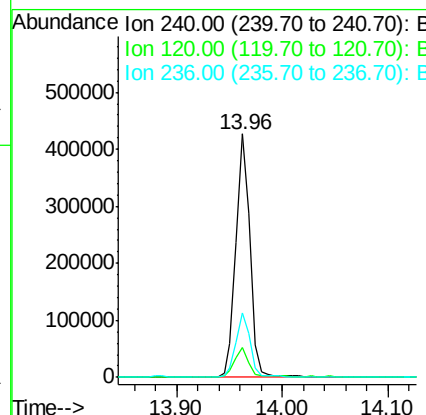
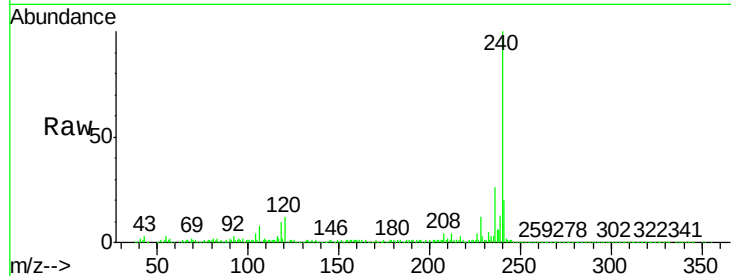




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.00 min
Lab File: BF121218.D
Acq: 6 Aug 2020 23:14

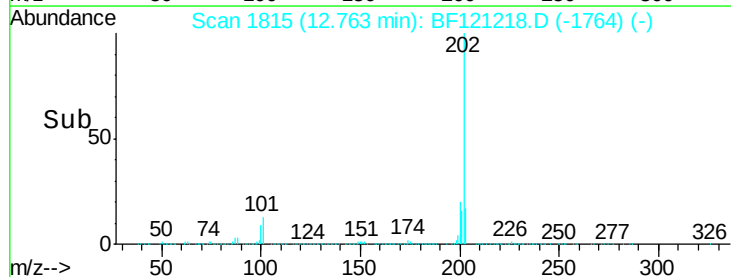
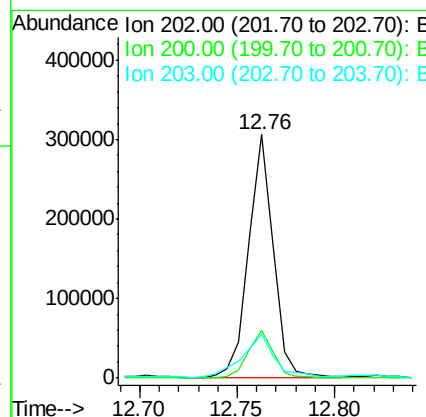
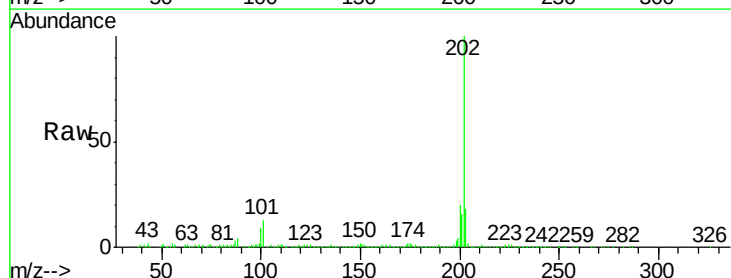
Instrument :
BNA_F
ClientSampleId :
FK-GF-03-016-B

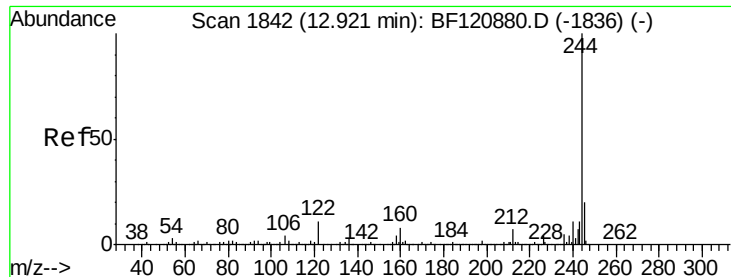
Tot Ion:240 Resp: 386193
Ion Ratio Lower Upper
240 100
120 12.2 9.3 13.9
236 26.5 21.1 31.7



#78
Pyrene
Concen: 9.778 ng
RT: 12.76 min Scan# 1815
Delta R.T. -0.00 min
Lab File: BF121218.D
Acq: 6 Aug 2020 23:14

Tgt Ion:202 Resp: 266985
Ion Ratio Lower Upper
202 100
200 19.8 17.0 25.6
203 17.8 14.6 21.8

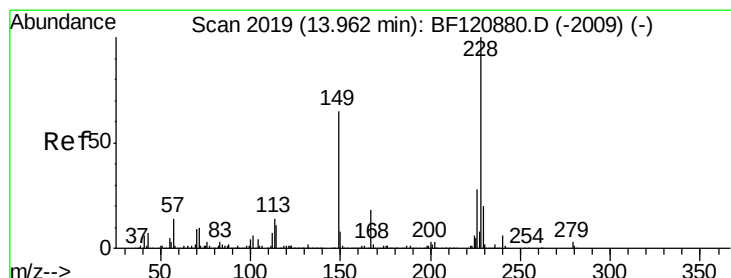
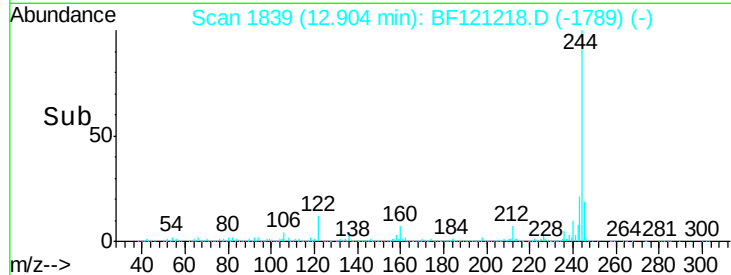
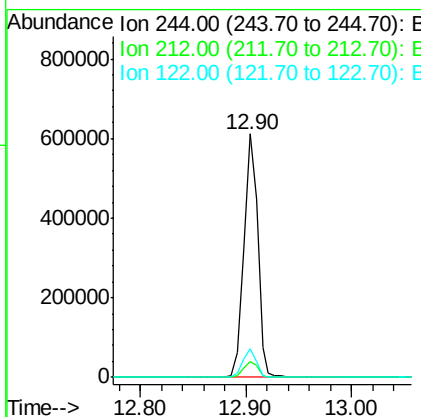
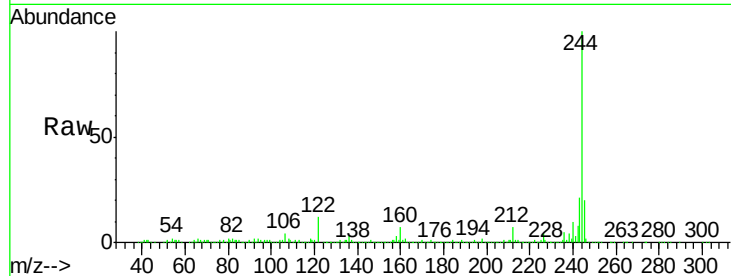




#79
 Terphenyl-d14
 Concen: 30.922 ng
 RT: 12.90 min Scan# 1839
 Delta R.T. -0.01 min
 Lab File: BF121218.D
 Acq: 6 Aug 2020 23:14

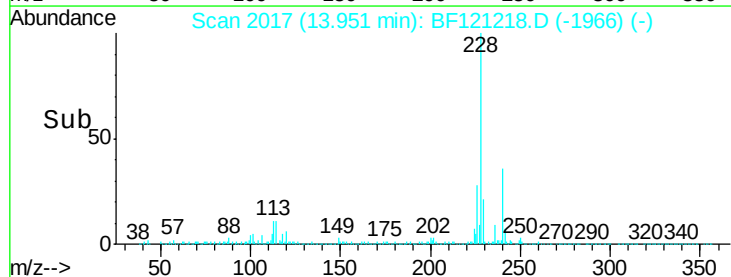
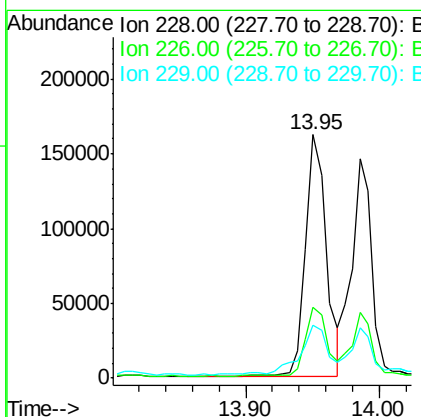
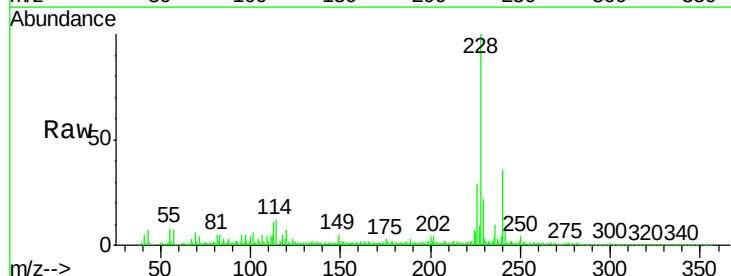
Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-03-016-B

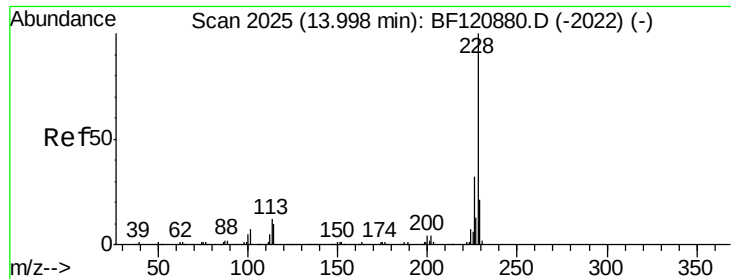
Tot Ion:244 Resp: 549361
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.7 8.5
 122 11.8 8.3 12.5



#81
 Benzo(a)anthracene
 Concen: 7.441 ng
 RT: 13.95 min Scan# 2017
 Delta R.T. -0.00 min
 Lab File: BF121218.D
 Acq: 6 Aug 2020 23:14

Tgt Ion:228 Resp: 174009
 Ion Ratio Lower Upper
 228 100
 226 29.0 22.6 34.0
 229 21.6 16.1 24.1





#83

Chrysene

Concen: 6.283 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.01 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

Instrument :

BNA_F

ClientSampleId :

FK-GF-03-016-B

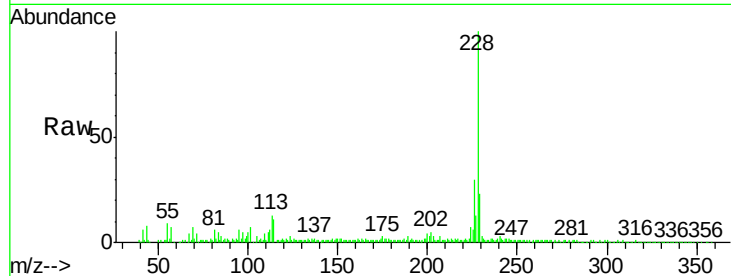
Tot Ion:228 Resp: 154405

Ion Ratio Lower Upper

228 100

226 30.2 25.4 38.0

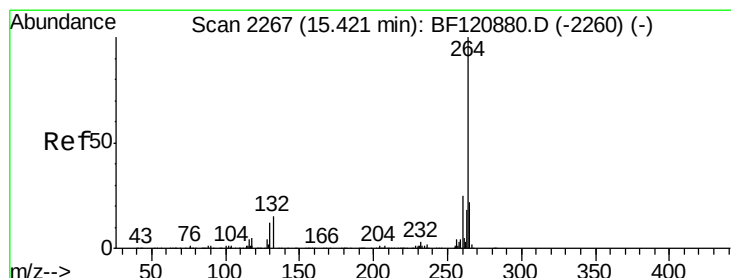
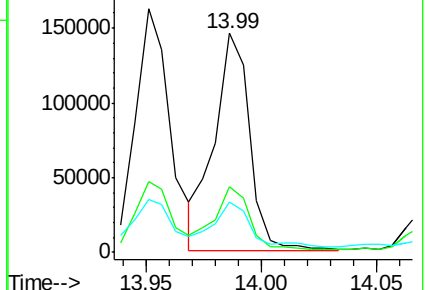
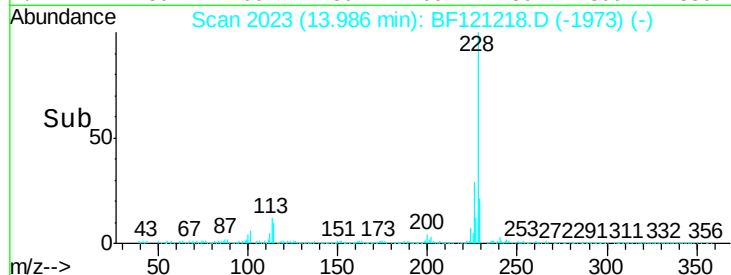
229 23.0 16.2 24.4



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

Perylene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2267

Delta R.T. 0.02 min

Lab File: BF121218.D

Acq: 6 Aug 2020 23:14

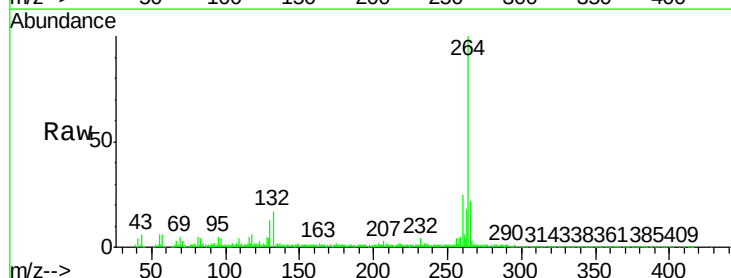
Tgt Ion:264 Resp: 363245

Ion Ratio Lower Upper

264 100

260 24.7 19.9 29.9

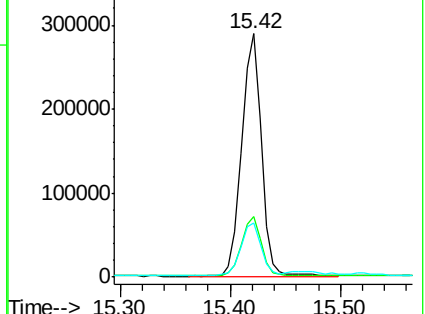
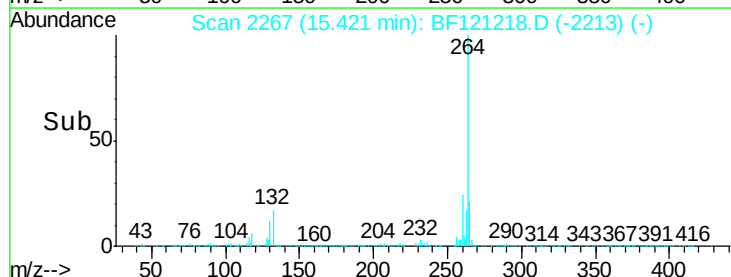
265 22.2 17.8 26.8

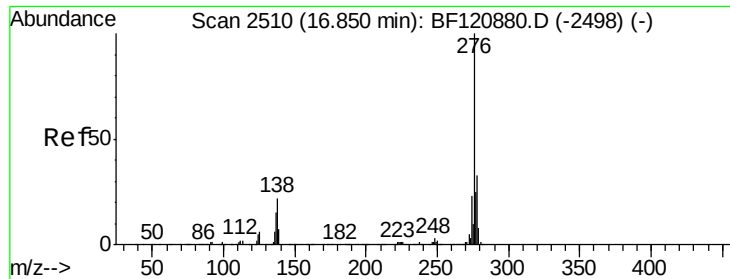


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

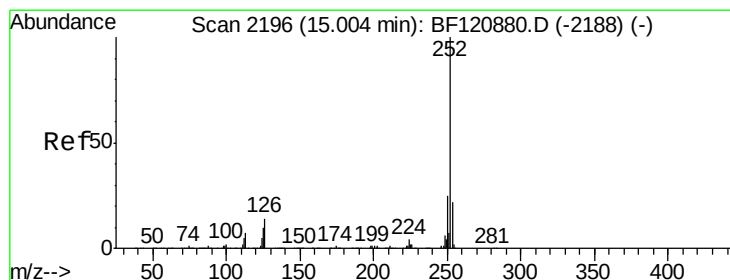
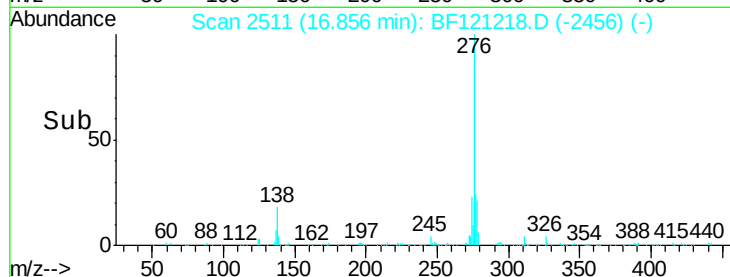
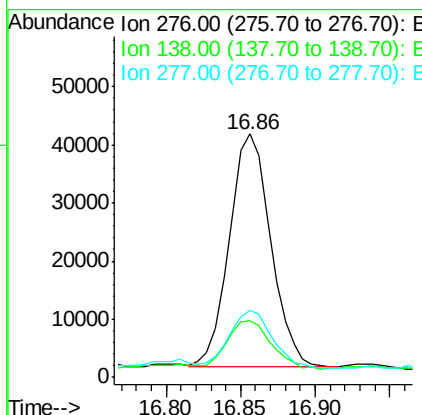
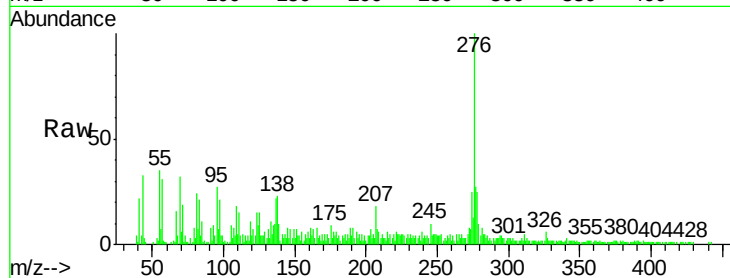




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 3.062 ng
 RT: 16.86 min Scan# 2511
 Delta R.T. 0.02 min
 Lab File: BF121218.D
 Acq: 6 Aug 2020 23:14

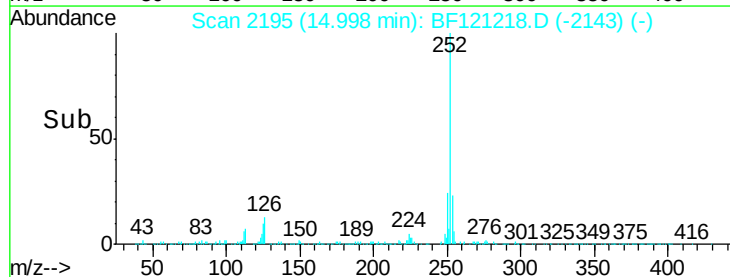
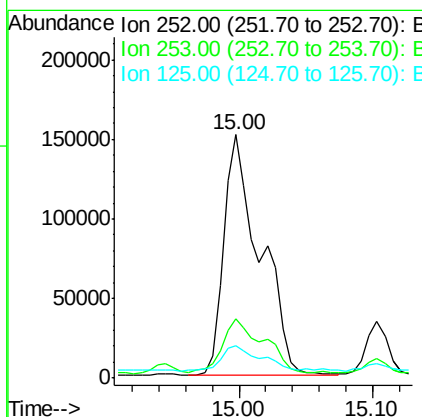
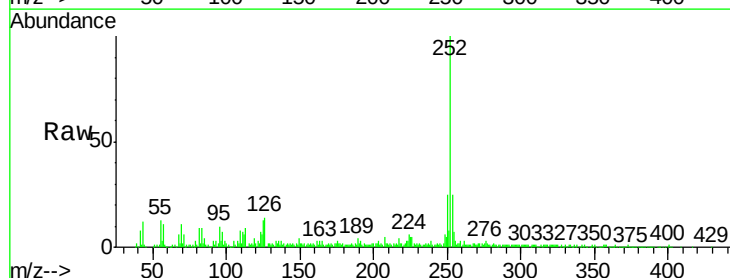
Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-03-016-B

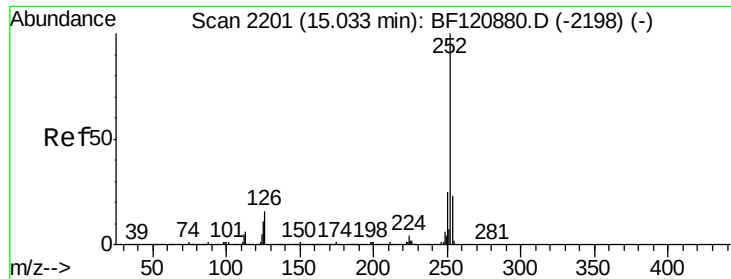
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.2	19.3	28.9
277	25.9	20.1	30.1



#88
 Benzo(b)fluoranthene
 Concen: 13.164 ng
 RT: 15.00 min Scan# 2195
 Delta R.T. 0.01 min
 Lab File: BF121218.D
 Acq: 6 Aug 2020 23:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.9	26.9
125	13.2	8.1	12.1

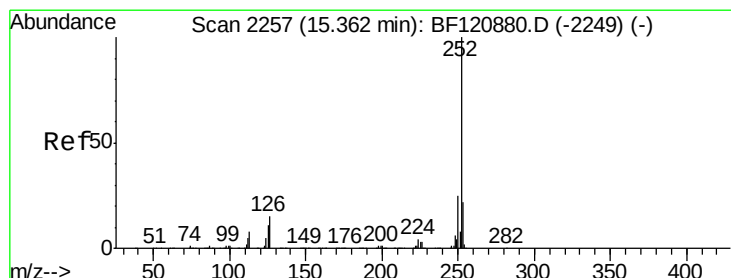
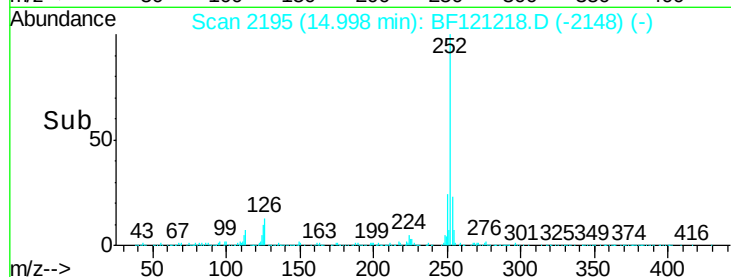
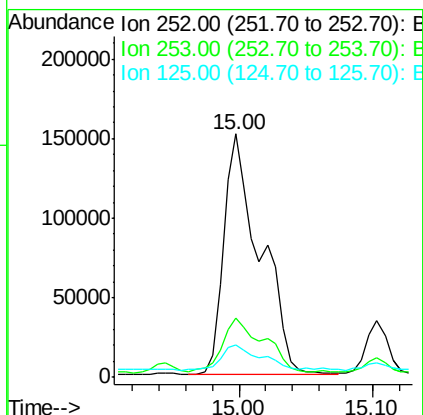
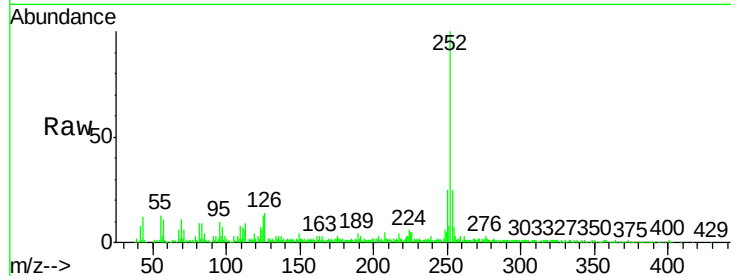




#89
Benzo(k)fluoranthene
Concen: 14.434 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.02 min
Lab File: BF121218.D
Acq: 6 Aug 2020 23:14

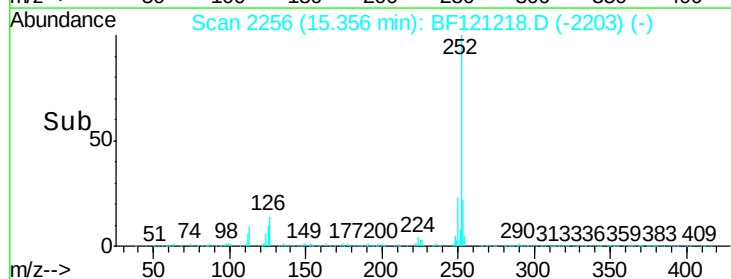
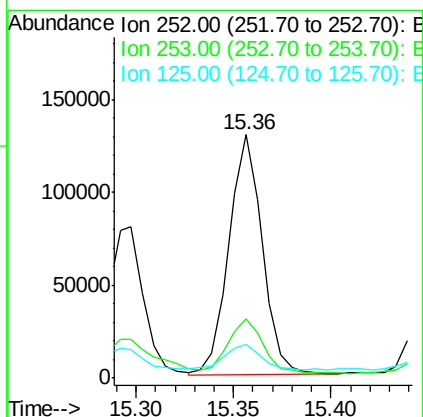
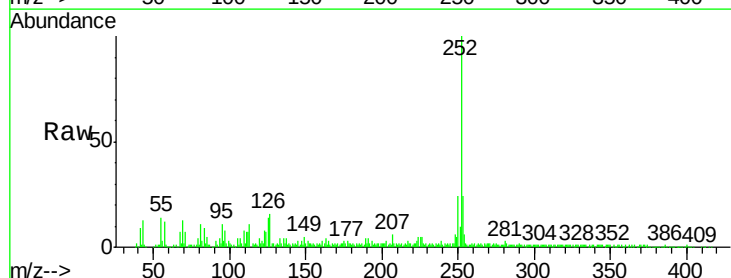
Instrument :
BNA_F
ClientSampleId :
FK-GF-03-016-B

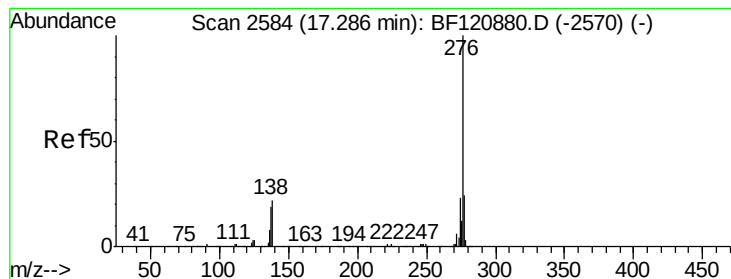
Tot Ion:252 Resp: 289033
Ion Ratio Lower Upper
252 100
253 24.6 18.1 27.1
125 13.2 8.0 12.0#



#90
Benzo(a)pyrene
Concen: 7.656 ng
RT: 15.36 min Scan# 2256
Delta R.T. 0.01 min
Lab File: BF121218.D
Acq: 6 Aug 2020 23:14

Tgt Ion:252 Resp: 153377
Ion Ratio Lower Upper
252 100
253 24.1 18.0 27.0
125 13.7 9.5 14.3





#92
 Benzo(a,h,i)perylene
 Concen: 3.655 ng
 RT: 17.29 min Scan# 2585
 Delta R.T. 0.03 min
 Lab File: BF121218.D
 Acq: 6 Aug 2020 23:14

Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-03-016-B

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.4	29.0
138	24.8	17.2	25.8

