

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP071520\
 Data File : BP002755.D
 Acq On : 15 Jul 2020 15:39
 Operator : CG/JU
 Sample : L3304-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 FK-GF-02-058-A

Quant Time: Jul 15 16:47:08 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP071020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 13 10:54:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.55	152	146044	20.00	ng	0.00
21) Naphthalene-d8	10.32	136	607810	20.00	ng	0.00
39) Acenaphthene-d10	14.20	164	377846	20.00	ng	-0.01
64) Phenanthrene-d10	16.96	188	814186	20.00	ng	-0.01
76) Chrysene-d12	21.07	240	740222	20.00	ng	0.00
86) Perylene-d12	23.26	264	716487	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.18	112	471952	54.52	ng	0.00
7) Phenol-d6	6.75	99	666503	53.95	ng	0.00
23) Nitrobenzene-d5	8.70	82	402772	35.44	ng	0.00
42) 2,4,6-Tribromophenol	15.70	330	191119	48.46	ng	0.00
45) 2-Fluorobiphenyl	12.82	172	872572	35.72	ng	0.00
79) Terphenyl-d14	19.55	244	1176454	36.44	ng	0.00

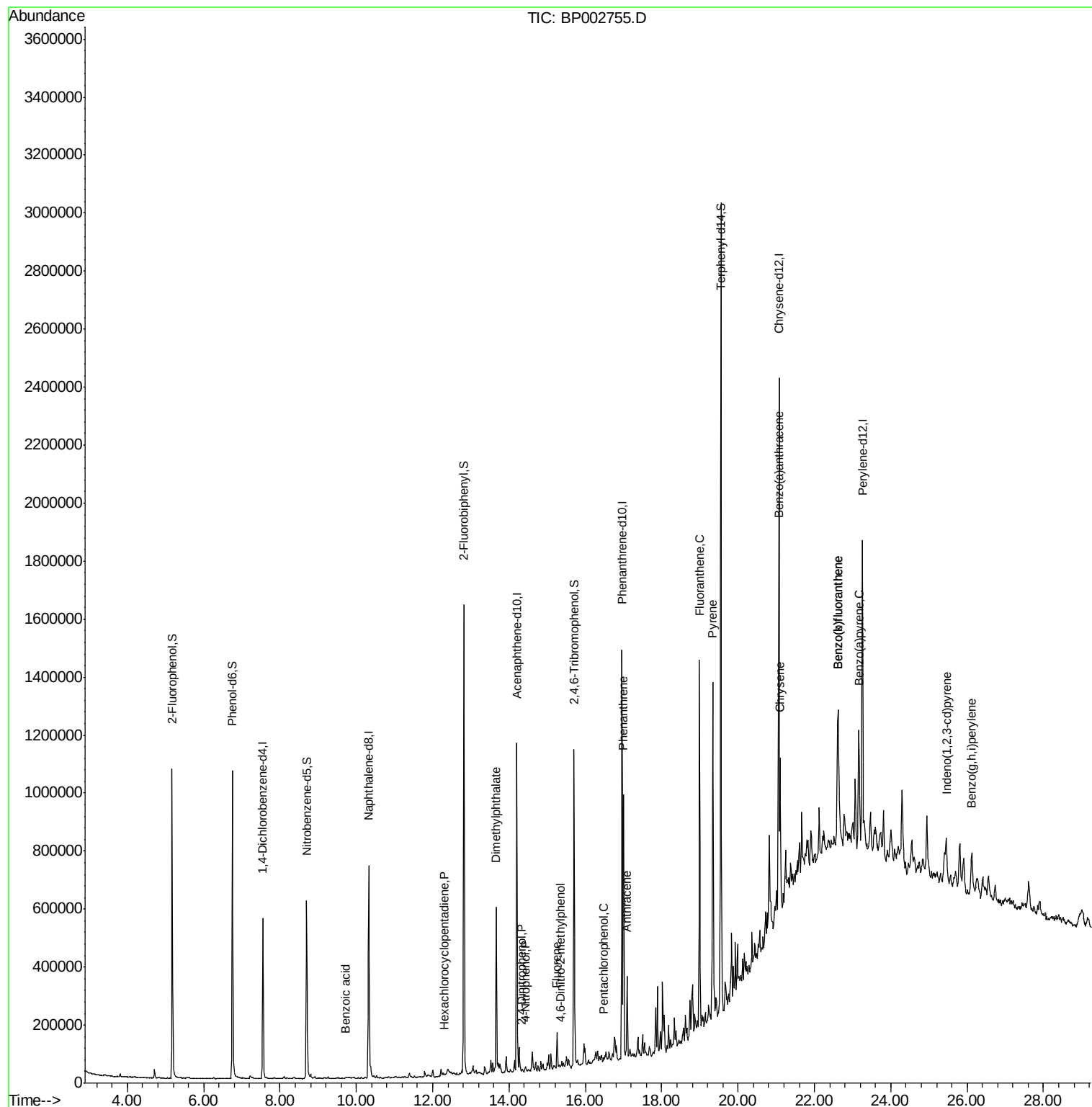
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
32) Benzoic acid	9.70	122	8	7.063	ng	# 1
41) Hexachlorocyclopentadiene	12.30	237	14	7.437	ng	83
50) Dimethylphthalate	13.66	163	368996	12.805	ng	99
54) 2,4-Dinitrophenol	14.33	184	14	11.378	ng	# 1
56) 4-Nitrophenol	14.43	139	864	5.118	ng	# 40
58) Fluorene	15.26	166	55483	2.169	ng	97
65) 4,6-Dinitro-2-methylphenol	15.34	198	14	5.269	ng	# 1
70) Pentachlorophenol	16.49	266	91	7.460	ng	88
71) Phenanthrene	17.00	178	556373	12.621	ng	99
72) Anthracene	17.09	178	156949	3.628	ng	98
75) Fluoranthene	18.99	202	719992	14.095	ng	99
78) Pyrene	19.34	202	662906	12.971	ng	97
81) Benzo(a)anthracene	21.05	228	319533	6.669	ng	97
83) Chrysene	21.10	228	283167	6.208	ng	98
87) Indeno(1,2,3-cd)pyrene	25.46	276	146064	2.821	ng	98
88) Benzo(b)fluoranthene	22.60	252	327770	7.367	ng	# 93
89) Benzo(k)fluoranthene	22.60	252	327770	7.480	ng	# 93
90) Benzo(a)pyrene	23.16	252	244329	5.795	ng	# 93
92) Benzo(a,h,i)perylene	26.12	276	152124	3.593	ng	98

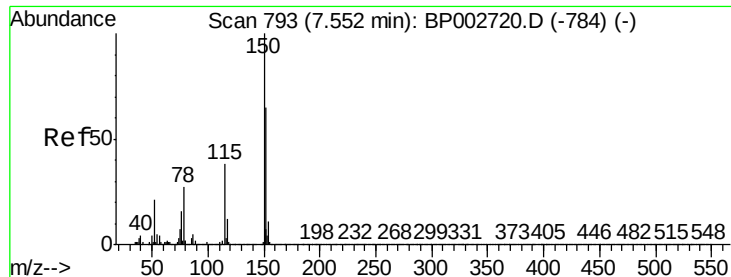
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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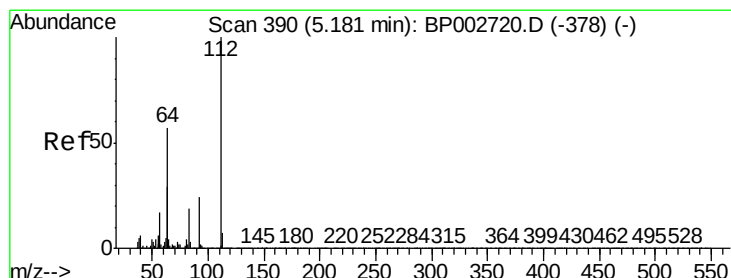
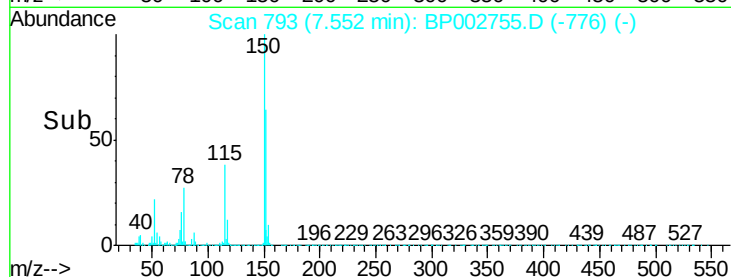
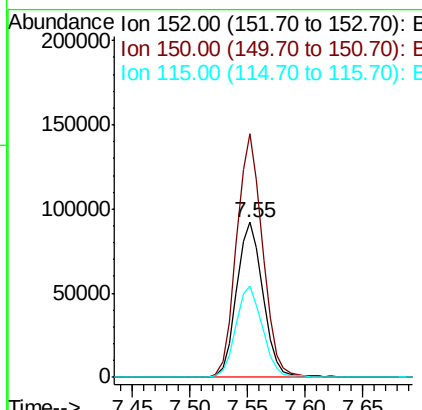
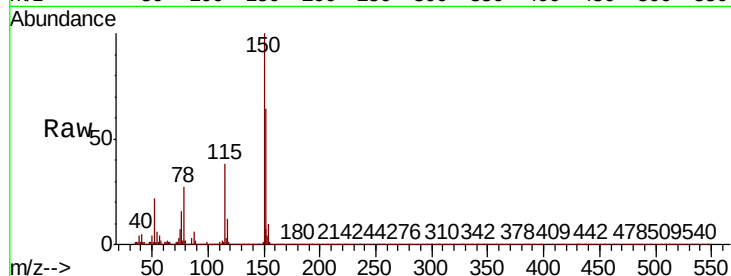


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.55 min Scan# 793
Delta R.T. 0.00 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

Instrument :
BNA_P
ClientSampleId :
FK-GF-02-058-A

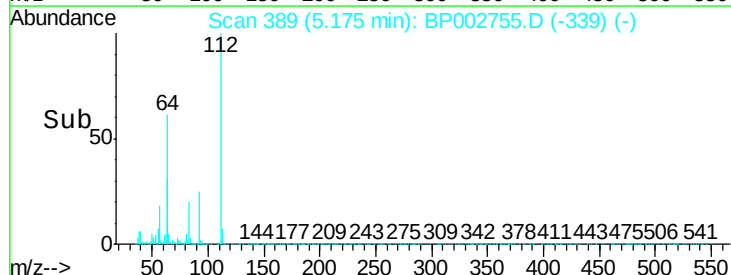
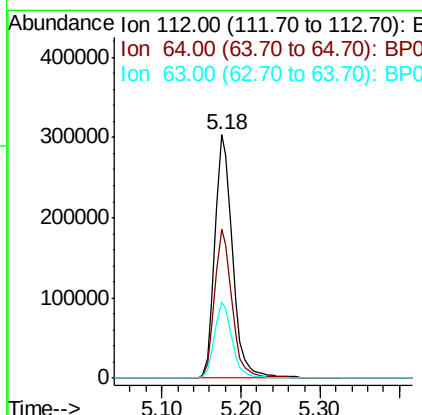
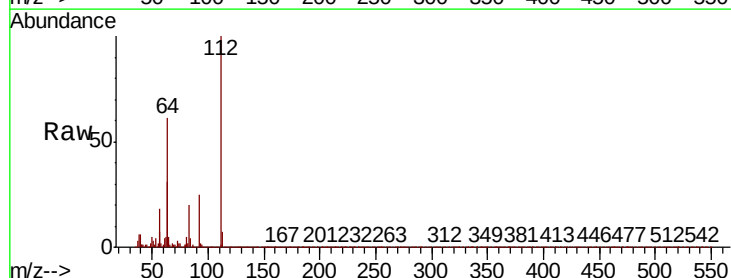
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	123.7	185.5
115	59.1	47.2	70.8

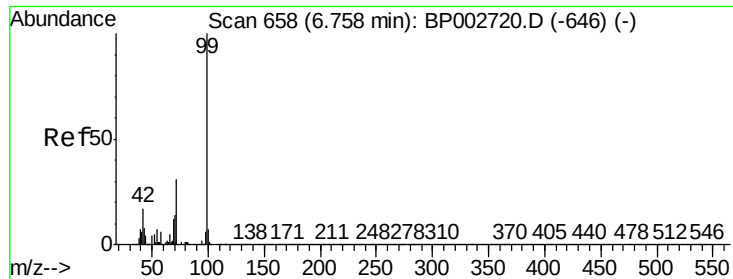


#5

2-Fluorophenol
Concen: 54.523 ng
RT: 5.18 min Scan# 389
Delta R.T. -0.01 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	45.6	68.4
63	31.1	23.5	35.3





#7

Phenol-d6

Concen: 53.952 ng

RT: 6.75 min Scan# 657

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Instrument :

BNA_P

ClientSampleId :

FK-GF-02-058-A

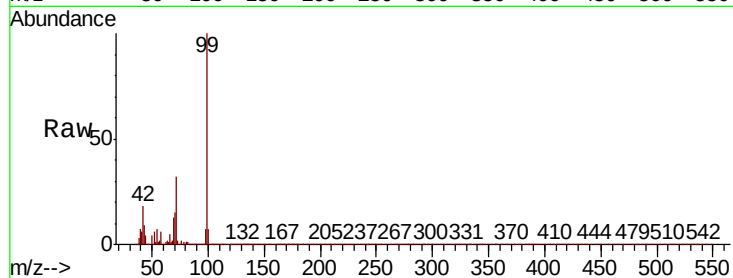
Tot Ion: 99 Resp: 666503

Ion Ratio Lower Upper

99 100

42 17.9 13.4 20.2

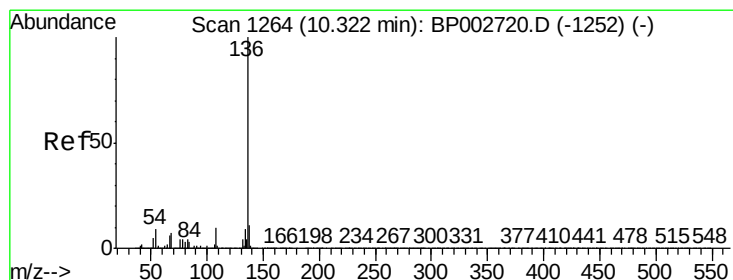
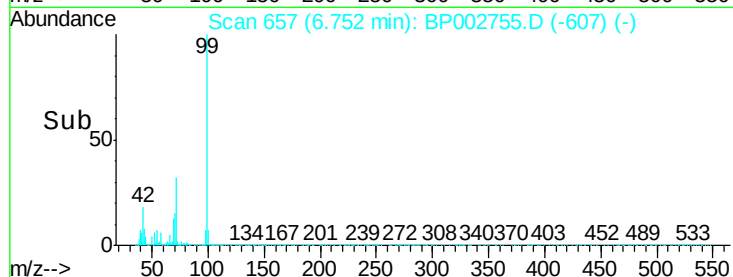
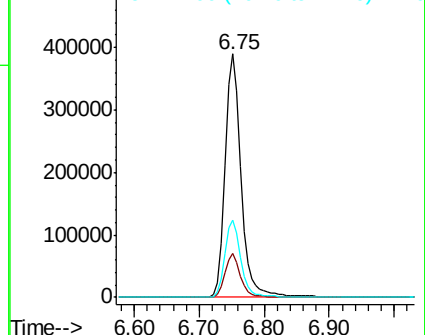
71 31.7 24.6 36.8



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.32 min Scan# 1264

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Tgt Ion: 136 Resp: 607810

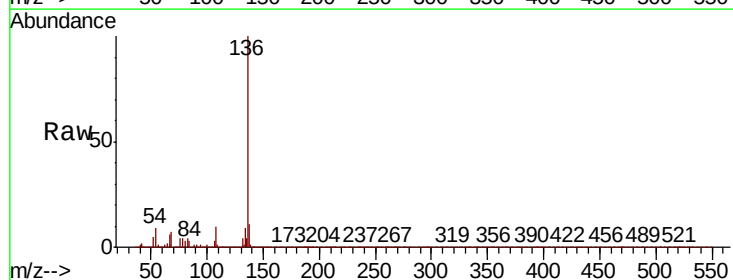
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 8.6 6.9 10.3

68 7.4 5.7 8.5

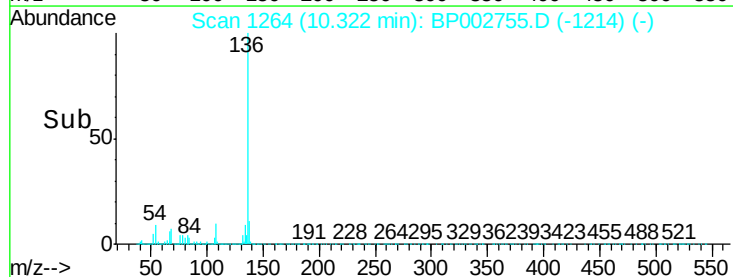
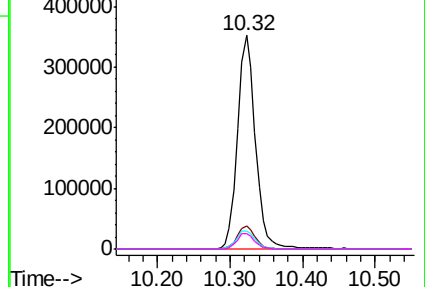


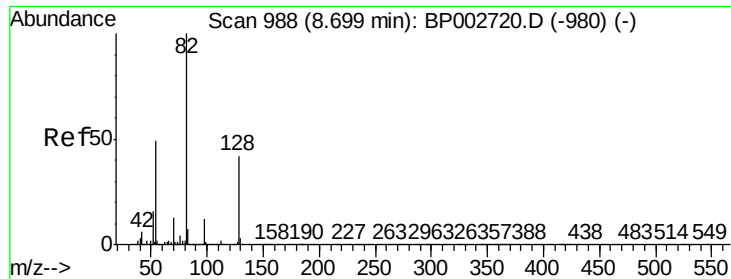
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0

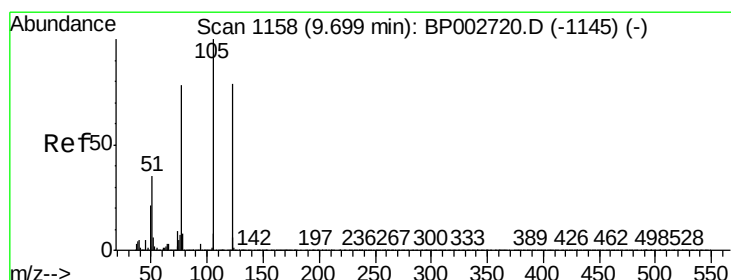
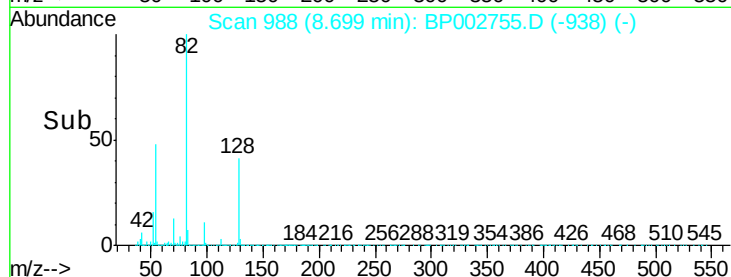
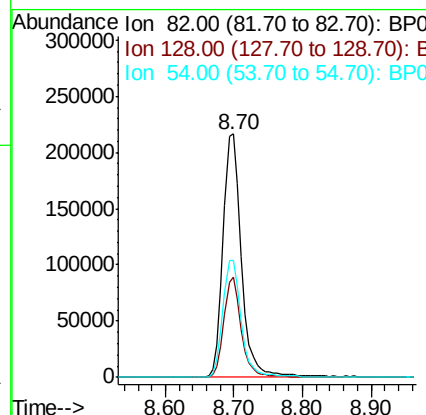
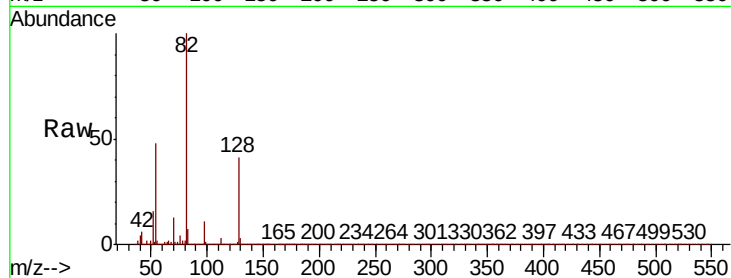




#23
Nitrobenzene-d5
Concen: 35.441 ng
RT: 8.70 min Scan# 988
Delta R.T. -0.01 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

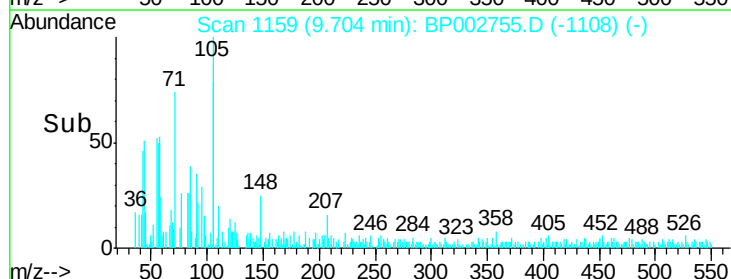
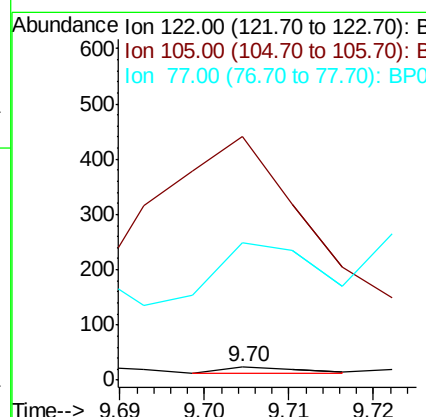
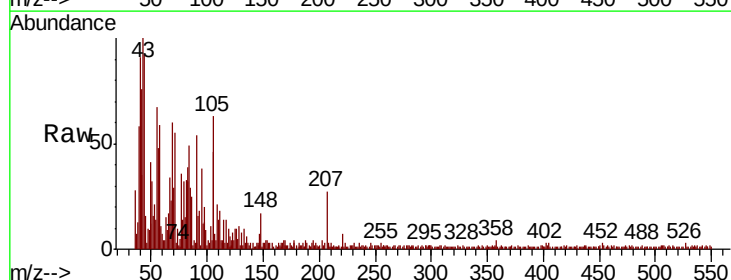
Instrument :
BNA_P
ClientSampleId :
FK-GF-02-058-A

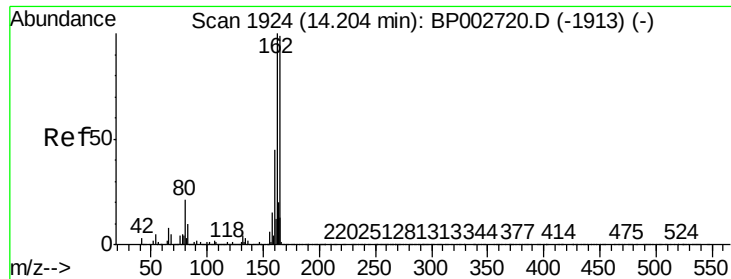
Tot Ion	82	Resp	402772
Ion Ratio	Lower	Upper	
82	100		
128	41.3	33.8	50.8
54	48.2	38.8	58.2



#32
Benzoic acid
Concen: 7.063 ng
RT: 9.70 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

Tgt Ion	122	Resp	8
Ion Ratio	Lower	Upper	
122	100		
105	1764.0	105.4	145.4#
77	992.0	78.5	118.5#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.20 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Instrument :

BNA_P

ClientSampleId :

FK-GF-02-058-A

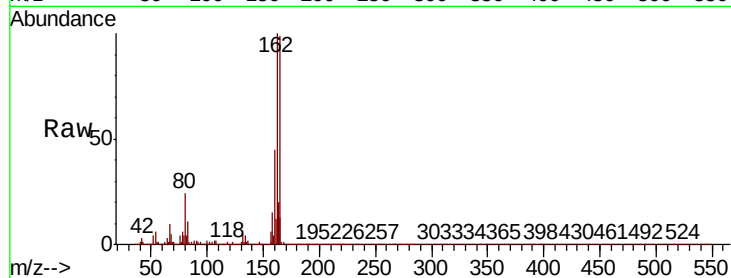
Tot Ion:164 Resp: 377846

Ion Ratio Lower Upper

164 100

162 100.9 80.6 121.0

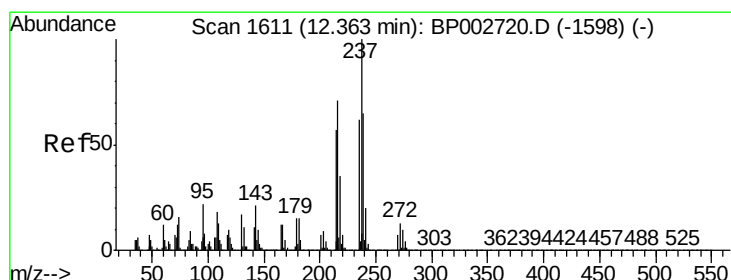
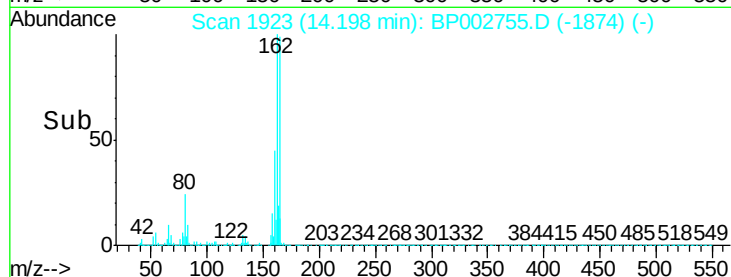
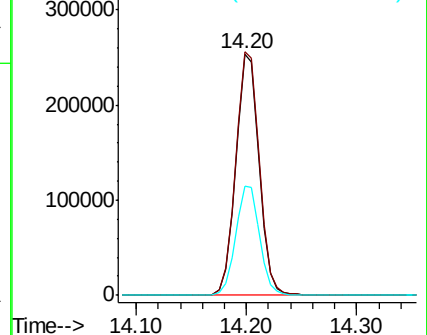
160 45.2 36.4 54.6



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



#41

Hexachlorocyclopentadiene

Concen: 7.437 ng

RT: 12.30 min Scan# 1600

Delta R.T. -0.06 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

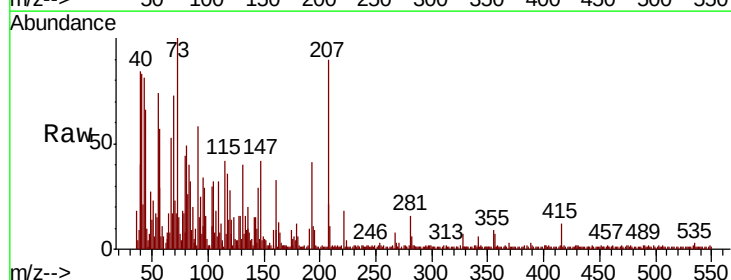
Tgt Ion:237 Resp: 14

Ion Ratio Lower Upper

237 100

235 75.0 42.3 82.3

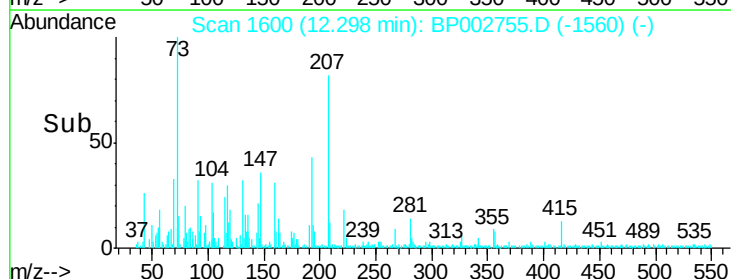
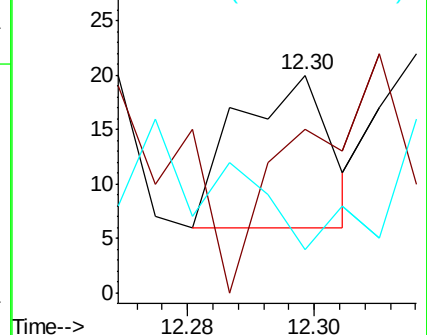
272 20.0 0.0 32.5

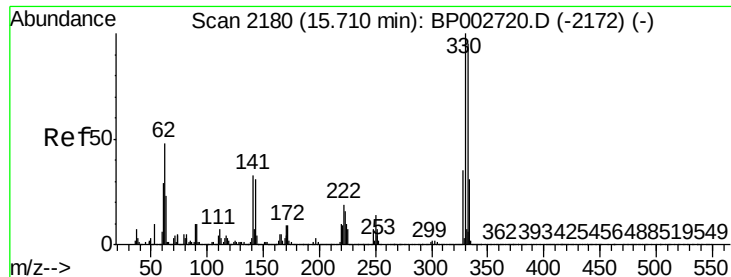


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

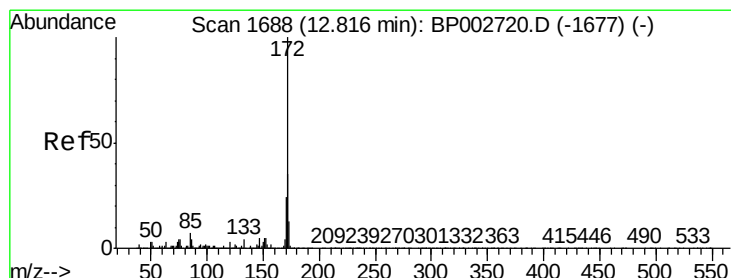
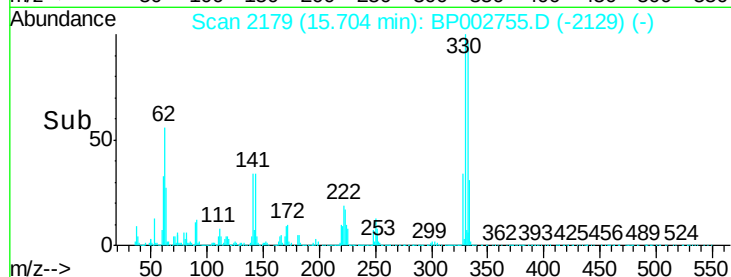
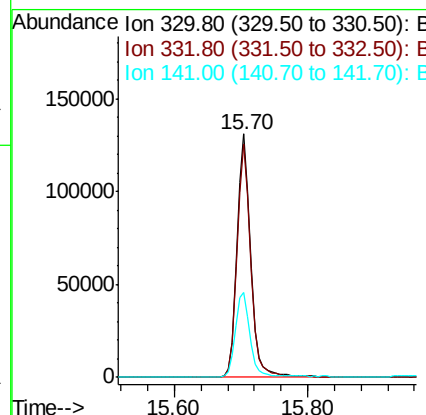
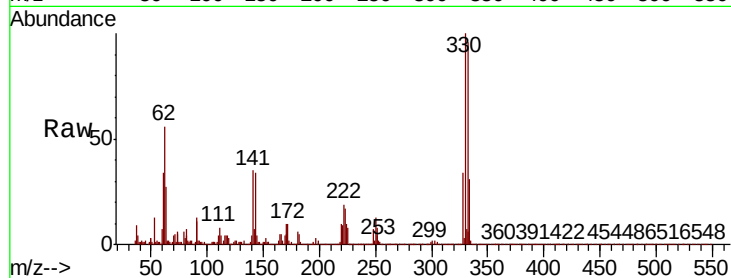




#42
2,4,6-Tribromophenol
Concen: 48.457 ng
RT: 15.70 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

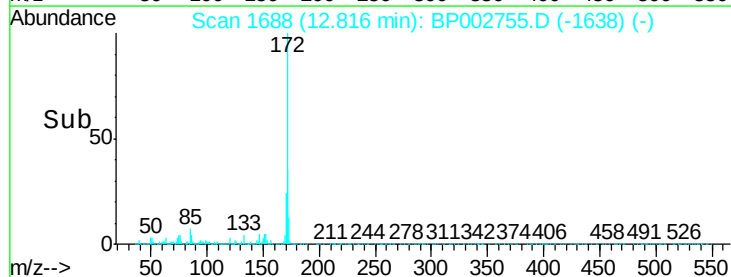
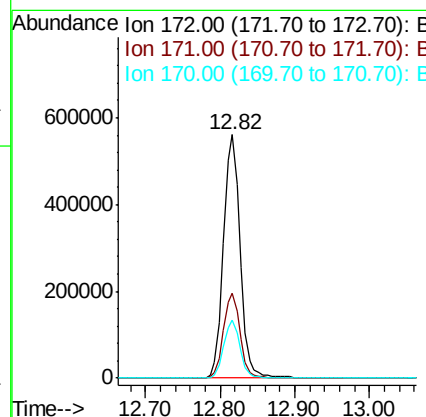
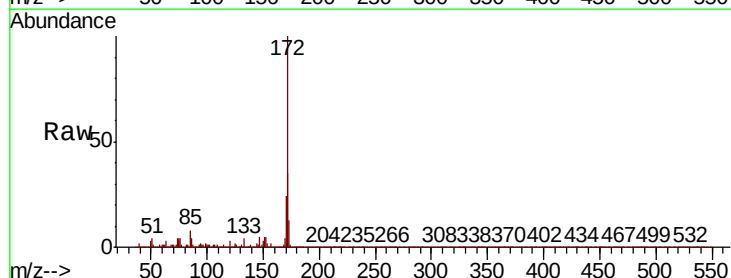
Instrument :
BNA_P
ClientSampleId :
FK-GF-02-058-A

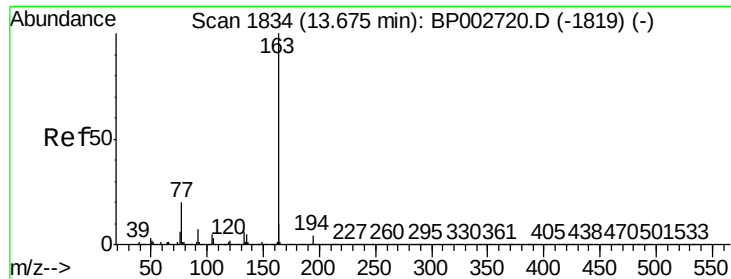
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.5	114.7
141	37.5	28.8	43.2



#45
2-Fluorobiphenyl
Concen: 35.725 ng
RT: 12.82 min Scan# 1688
Delta R.T. -0.01 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.1	42.1
170	23.7	19.3	28.9





#50

Dimethylphthalate

Concen: 12.805 ng

RT: 13.66 min Scan# 1832

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Instrument :

BNA_P

ClientSampleId :

FK-GF-02-058-A

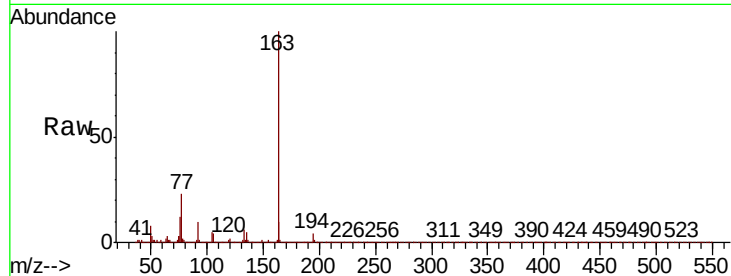
Tot Ion:163 Resp: 368996

Ion Ratio Lower Upper

163 100

194 4.2 3.4 5.2

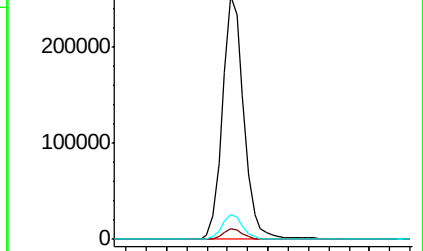
164 10.3 7.8 11.8



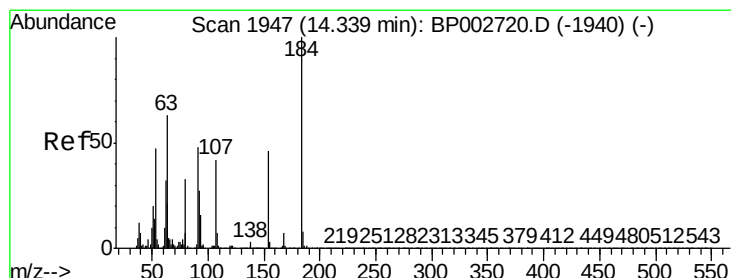
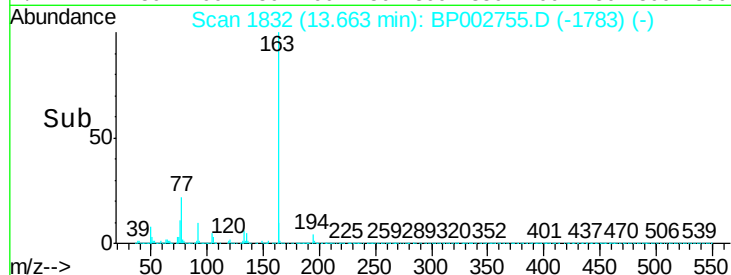
Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



Time-->



#54

2,4-Dinitrophenol

Concen: 11.378 ng

RT: 14.33 min Scan# 1946

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

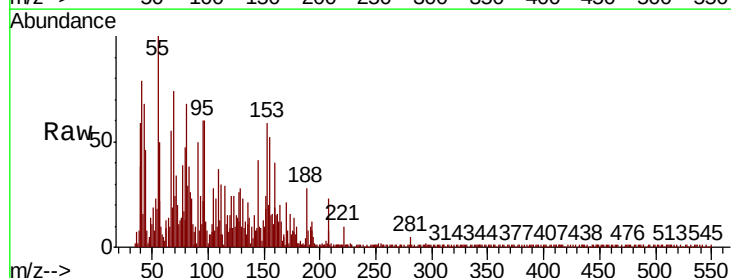
Tgt Ion:184 Resp: 14

Ion Ratio Lower Upper

184 100

63 942.9 51.6 77.4#

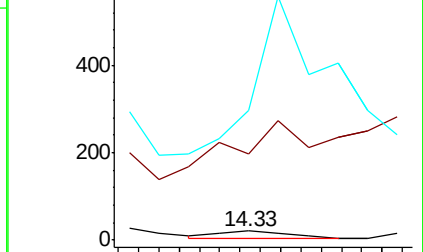
154 1409.5 45.0 67.6#



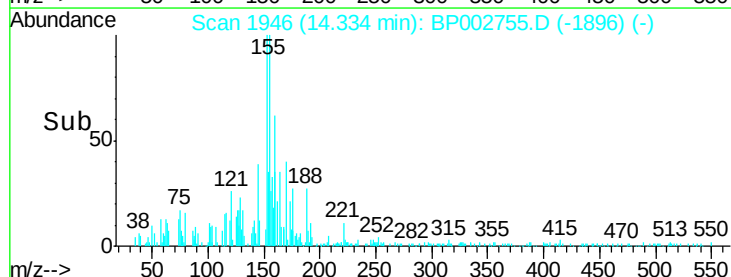
Abundance Ion 184.00 (183.70 to 184.70): E

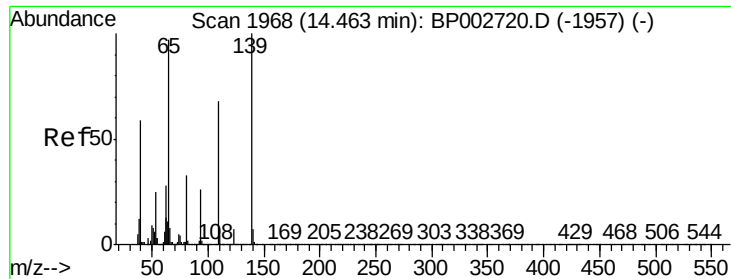
Ion 63.00 (62.70 to 63.70): BP0

Ion 154.00 (153.70 to 154.70): E



Time-->

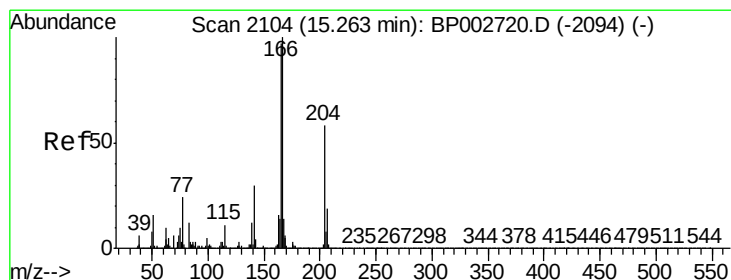
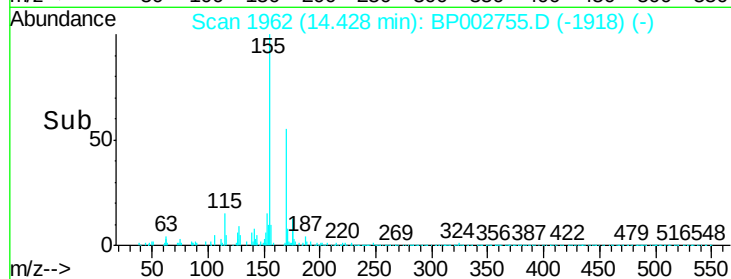
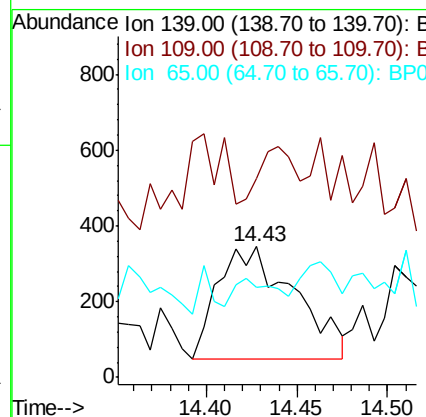
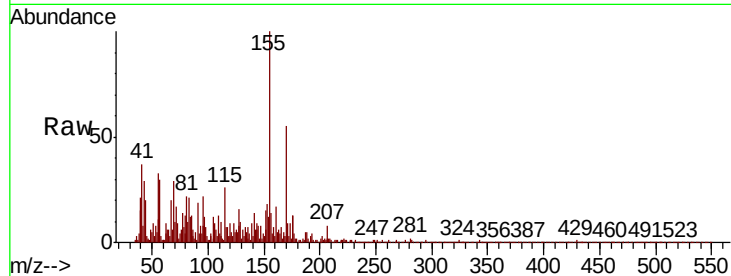




#56
4-Nitrophenol
Concen: 5.118 ng
RT: 14.43 min Scan# 1962
Delta R.T. -0.04 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

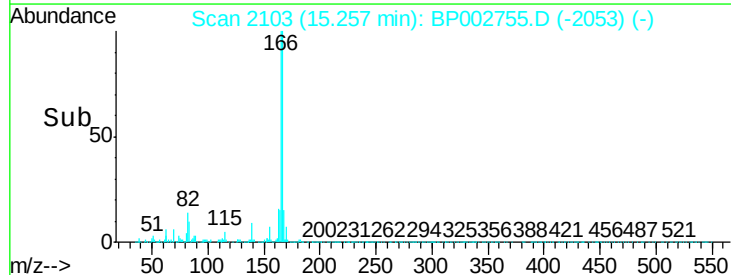
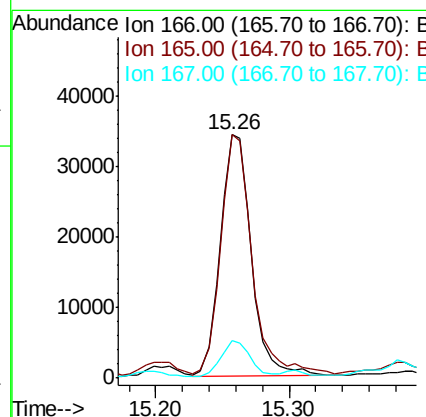
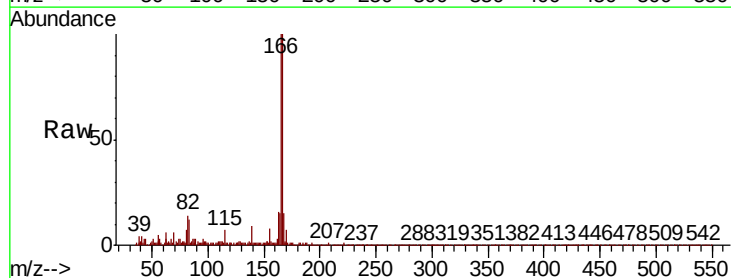
Instrument :
BNA_P
ClientSampleId :
FK-GF-02-058-A

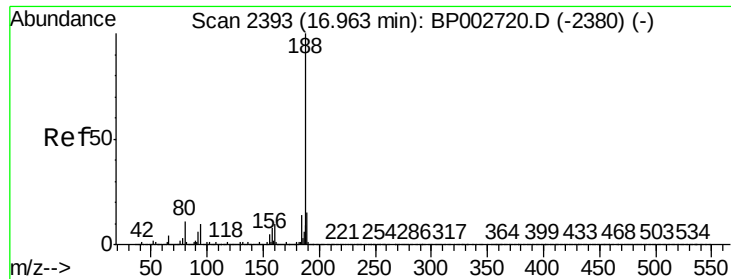
Tot Ion:139 Resp: 864
Ion Ratio Lower Upper
139 100
109 151.9 48.1 88.1#
65 69.0 77.9 117.9#



#58
Fluorene
Concen: 2.169 ng
RT: 15.26 min Scan# 2103
Delta R.T. -0.01 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

Tgt Ion:166 Resp: 55483
Ion Ratio Lower Upper
166 100
165 100.1 77.7 116.5
167 15.5 11.0 16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.96 min Scan# 2392

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Instrument :

BNA_P

ClientSampleId :

FK-GF-02-058-A

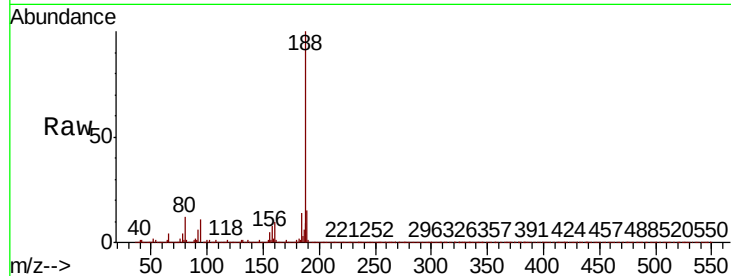
Tot Ion:188 Resp: 814186

Ion Ratio Lower Upper

188 100

94 10.7 8.1 12.1

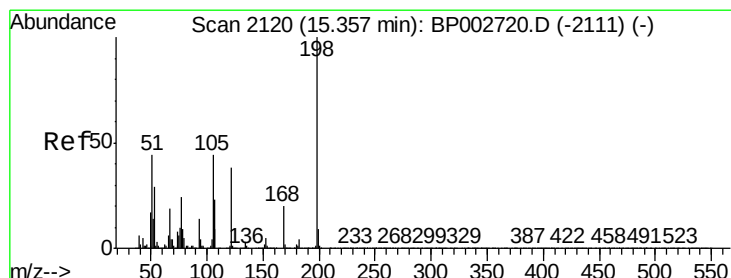
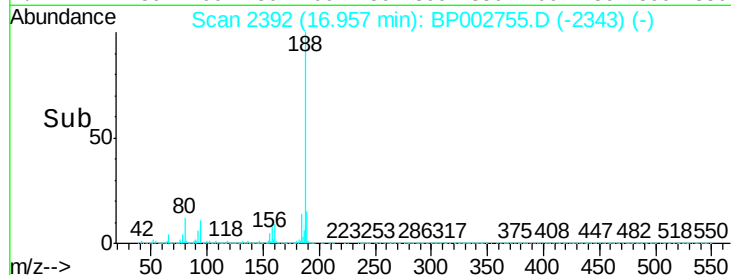
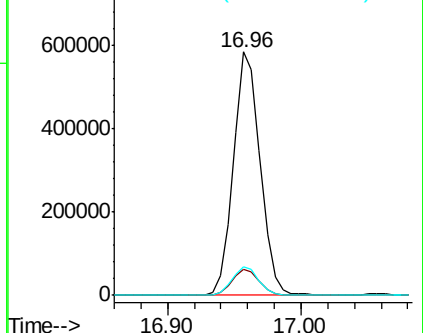
80 11.8 8.9 13.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP0

Ion 80.00 (79.70 to 80.70): BP0



#65

4,6-Dinitro-2-methylphenol

Concen: 5.269 ng

RT: 15.34 min Scan# 2117

Delta R.T. -0.02 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

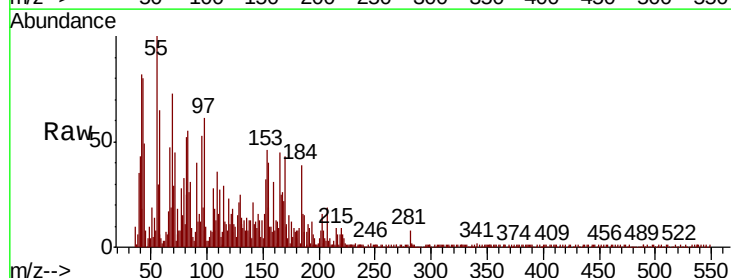
Tgt Ion:198 Resp: 14

Ion Ratio Lower Upper

198 100

51 1655.0 27.1 67.1#

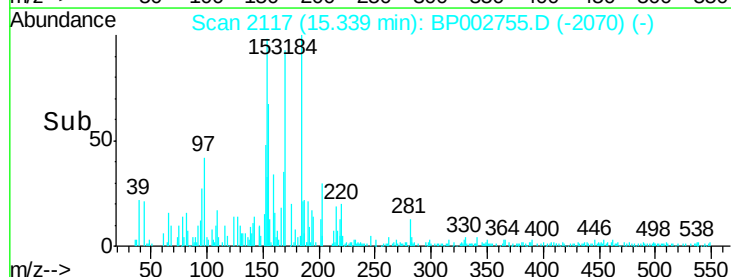
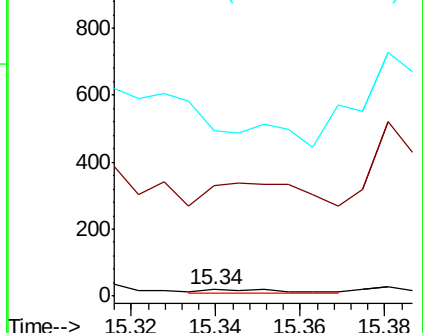
105 2480.0 24.9 64.9#

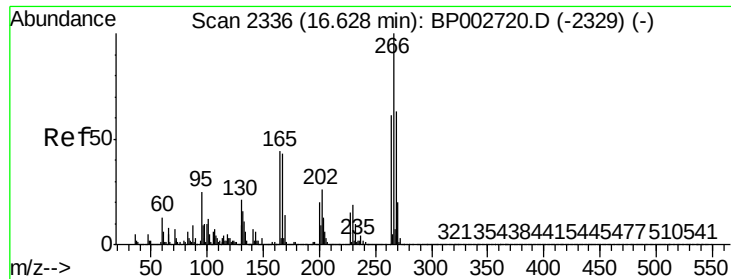


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BP0

Ion 105.00 (104.70 to 105.70): E

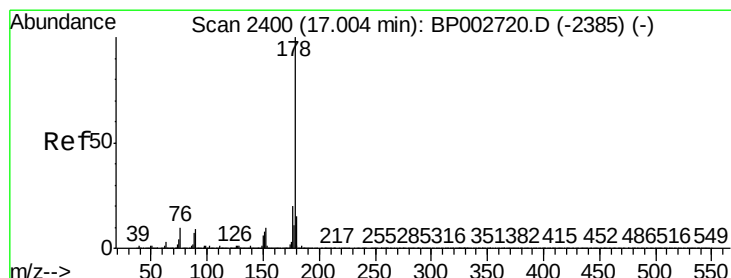
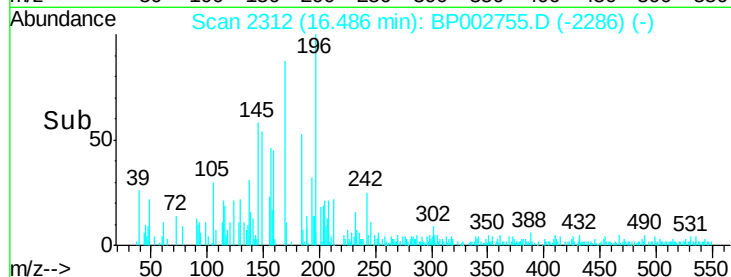
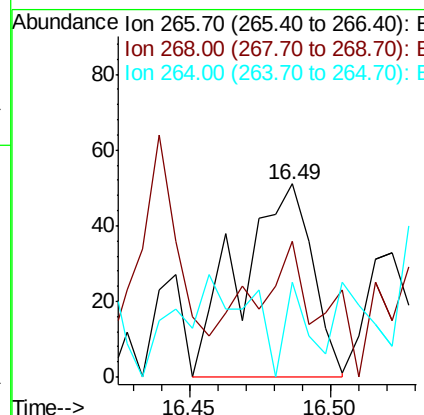
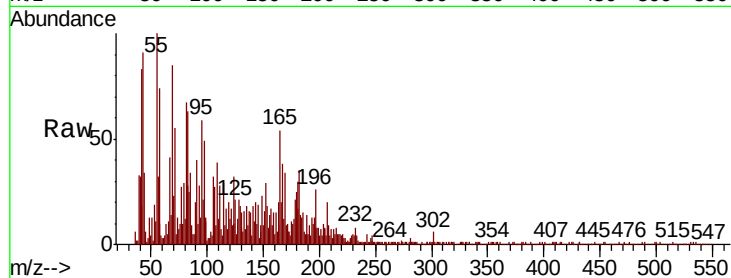




#70
 Pentachlorophenol
 Concen: 7.460 ng
 RT: 16.49 min Scan# 2312
 Delta R.T. -0.15 min
 Lab File: BP002755.D
 Acq: 15 Jul 2020 15:39

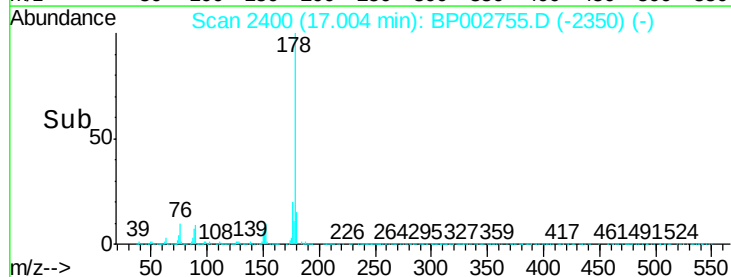
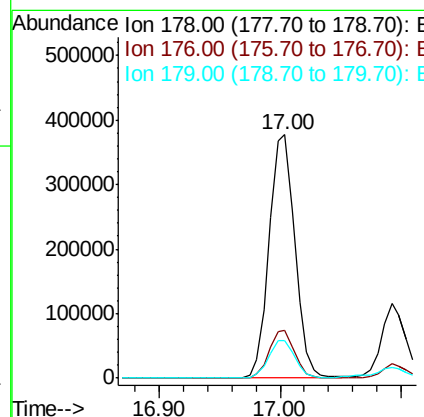
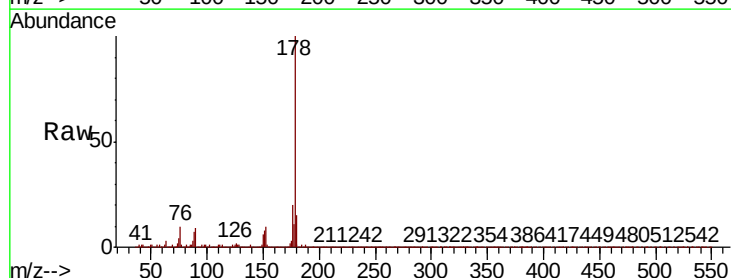
Instrument :
 BNA_P
 ClientSampleId :
 FK-GF-02-058-A

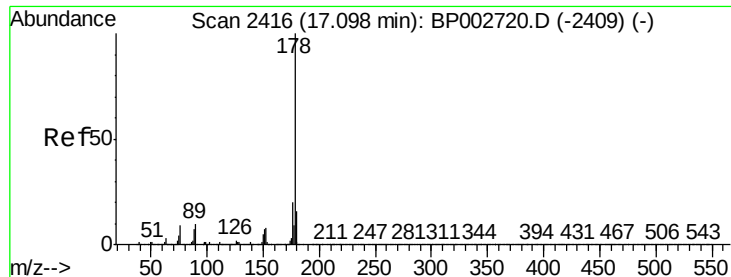
Tot Ion	Ratio	Lower	Upper
266	100		
268	70.6	50.6	75.8
264	49.0	48.6	72.8



#71
 Phenanthrene
 Concen: 12.621 ng
 RT: 17.00 min Scan# 2400
 Delta R.T. -0.01 min
 Lab File: BP002755.D
 Acq: 15 Jul 2020 15:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.2	12.3	18.5





#72

Anthracene

Concen: 3.628 ng

RT: 17.09 min Scan# 2415

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Instrument :

BNA_P

ClientSampleId :

FK-GF-02-058-A

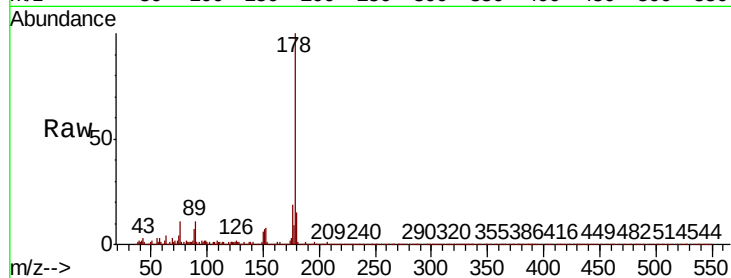
Tot Ion:178 Resp: 156949

Ion Ratio Lower Upper

178 100

176 18.7 15.6 23.4

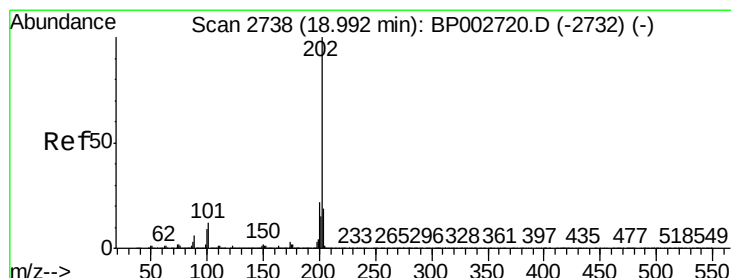
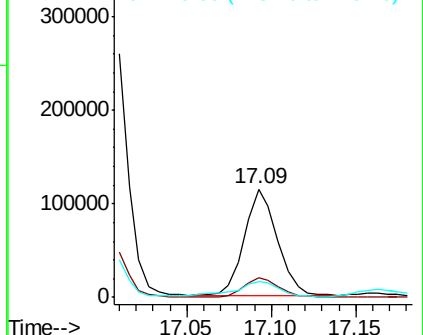
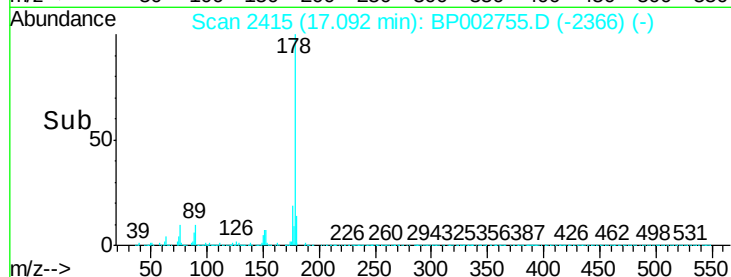
179 14.9 12.6 19.0



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: 14.095 ng

RT: 18.99 min Scan# 2737

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

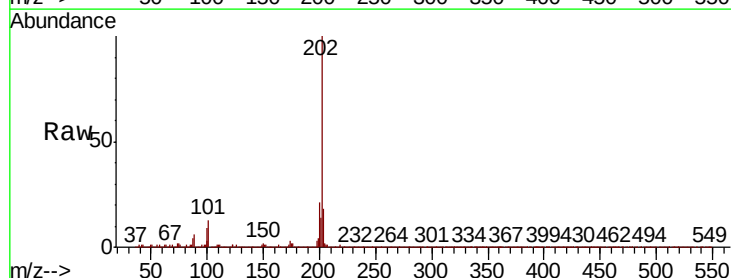
Tgt Ion:202 Resp: 719992

Ion Ratio Lower Upper

202 100

101 12.5 0.0 32.5

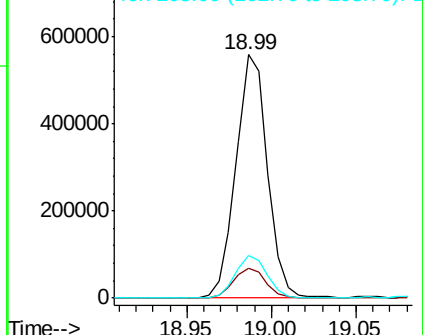
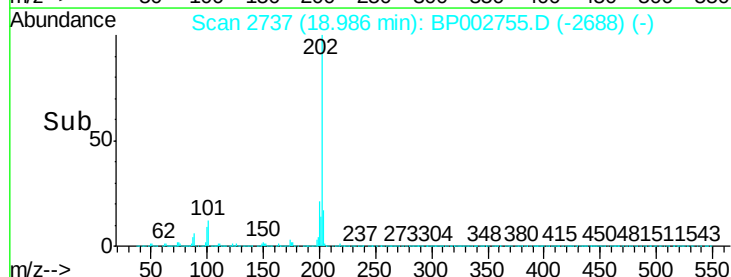
203 17.5 0.0 38.6

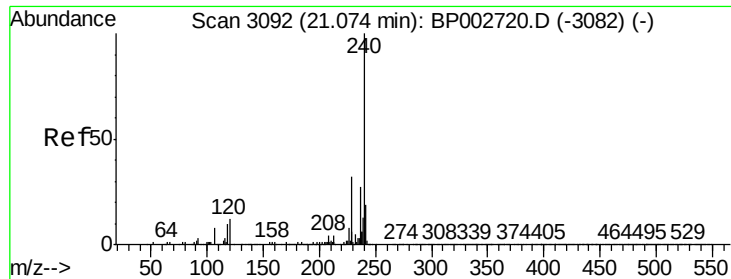


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

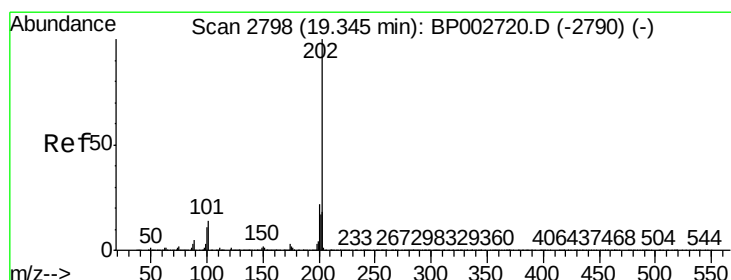
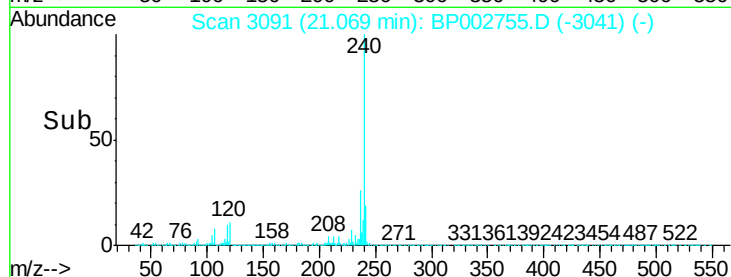
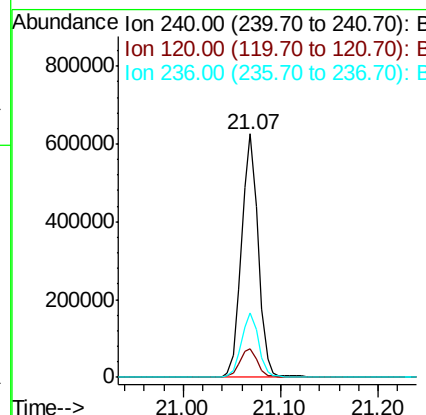
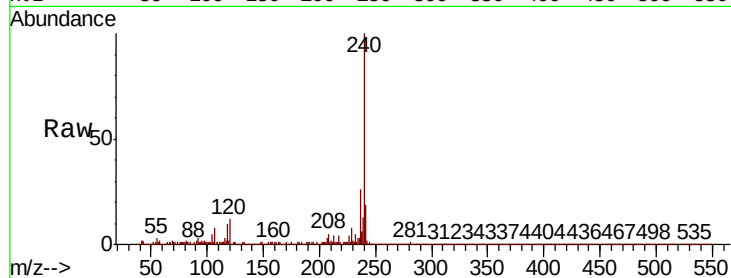




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.07 min Scan# 3091
Delta R.T. -0.01 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

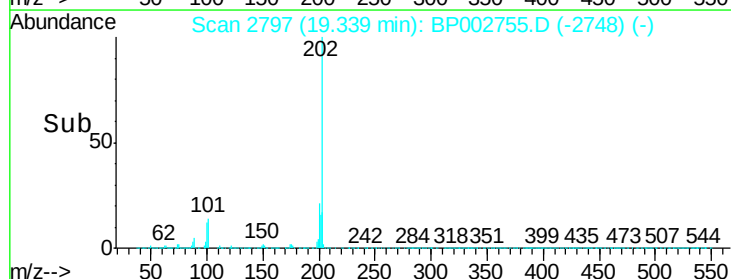
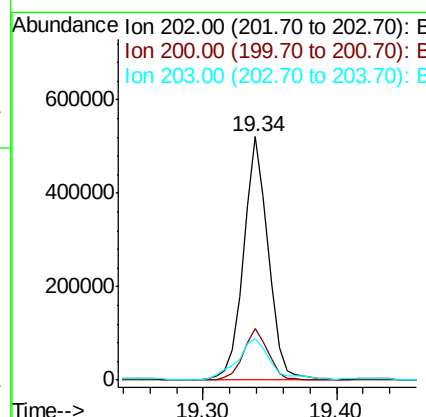
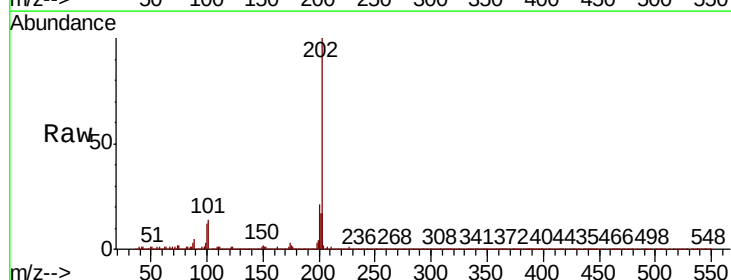
Instrument :
BNA_P
ClientSampleId :
FK-GF-02-058-A

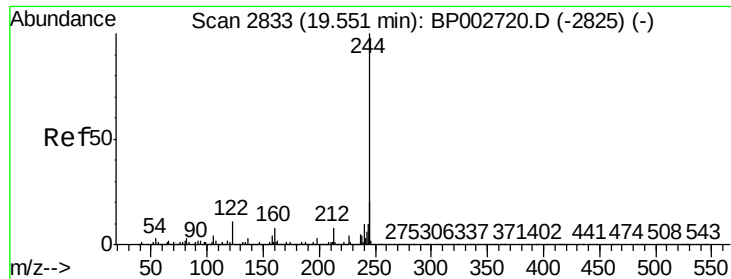
Tot Ion:240 Resp: 740222
Ion Ratio Lower Upper
240 100
120 11.6 9.4 14.2
236 26.4 21.3 31.9



#78
Pyrene
Concen: 12.971 ng
RT: 19.34 min Scan# 2797
Delta R.T. -0.01 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

Tgt Ion:202 Resp: 662906
Ion Ratio Lower Upper
202 100
200 21.0 17.7 26.5
203 16.8 14.5 21.7





#79

Terphenyl-d14

Concen: 36.439 ng

RT: 19.55 min Scan# 2833

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Instrument :

BNA_P

ClientSampleId :

FK-GF-02-058-A

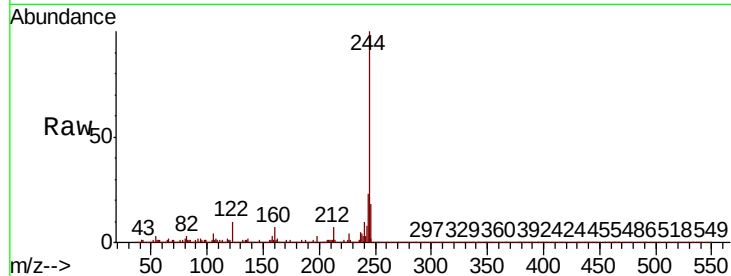
Tot Ion:244 Resp: 1176454

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

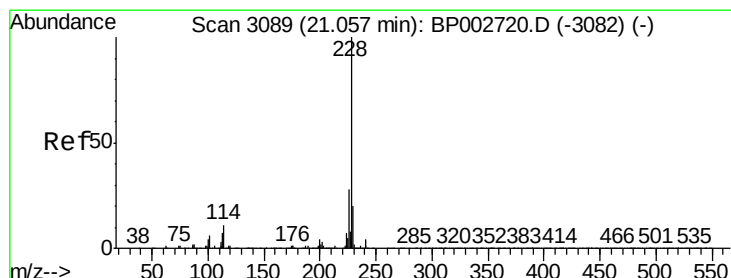
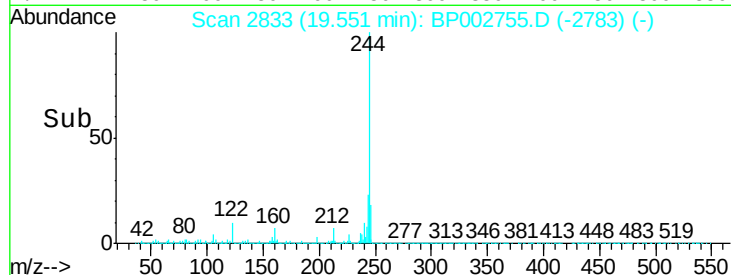
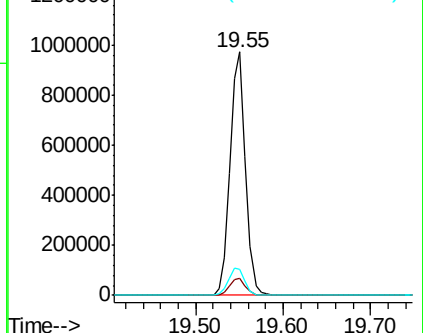
122 10.5 8.9 13.3



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 6.669 ng

RT: 21.05 min Scan# 3088

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

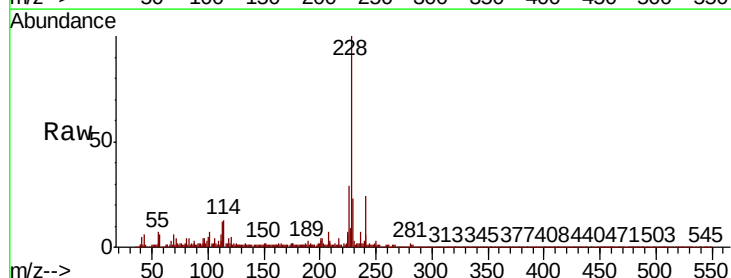
Tgt Ion:228 Resp: 319533

Ion Ratio Lower Upper

228 100

226 29.0 22.6 34.0

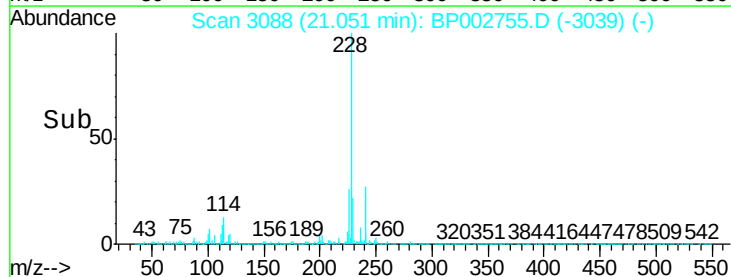
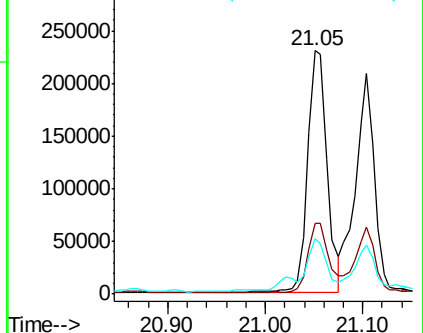
229 22.6 16.0 24.0

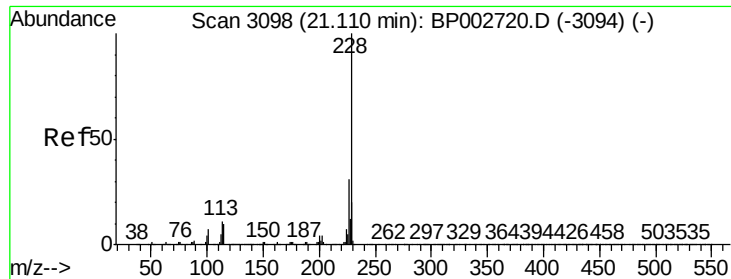


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 6.208 ng

RT: 21.10 min Scan# 3097

Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Instrument :

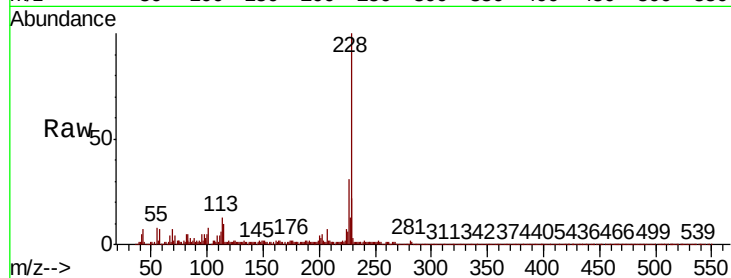
BNA_P

ClientSampleId :

FK-GF-02-058-A

Tot Ion:228 Resp: 283167

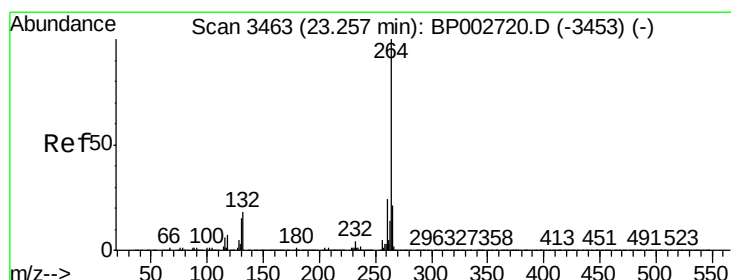
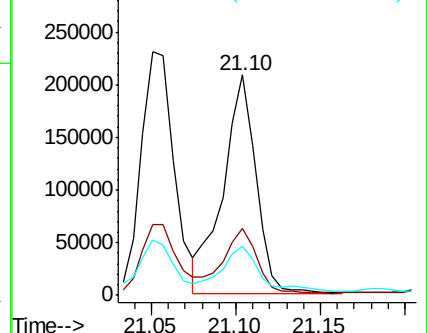
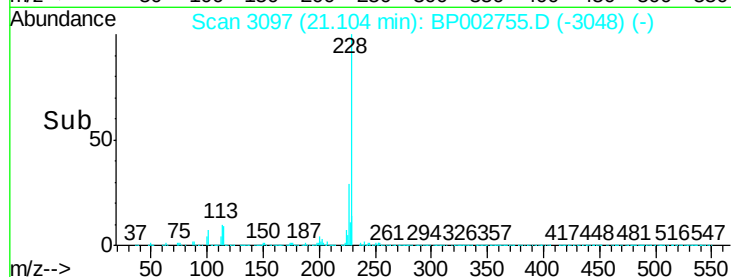
Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	22.1	15.7	23.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.26 min Scan# 3463

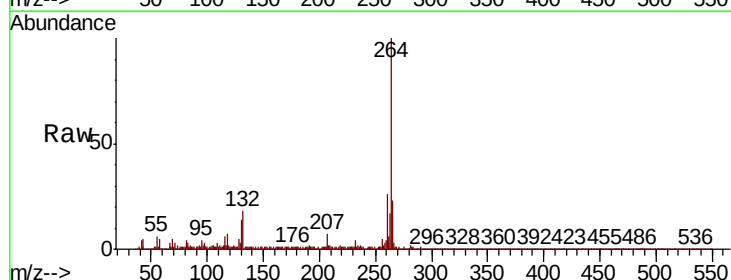
Delta R.T. -0.01 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Tgt Ion:264 Resp: 716487

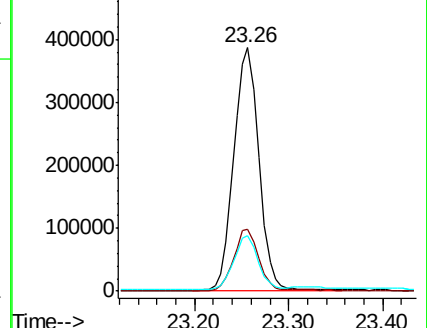
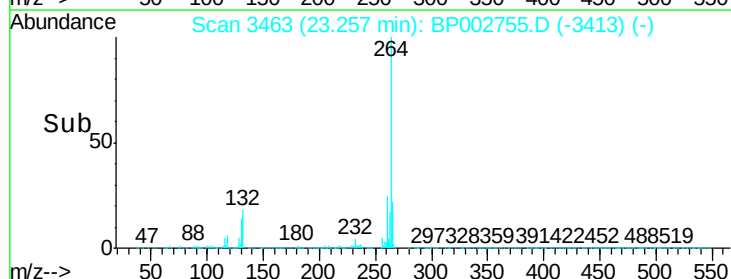
Ion	Ratio	Lower	Upper
264	100		
260	25.6	19.3	28.9
265	22.8	16.8	25.2

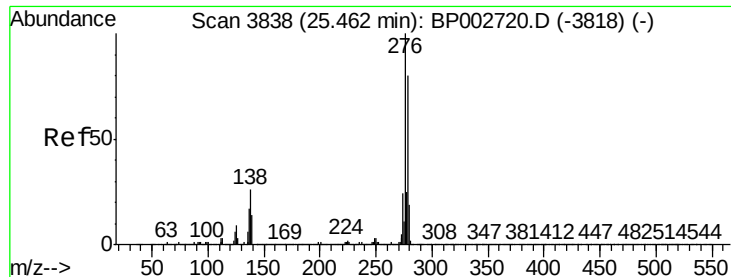


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

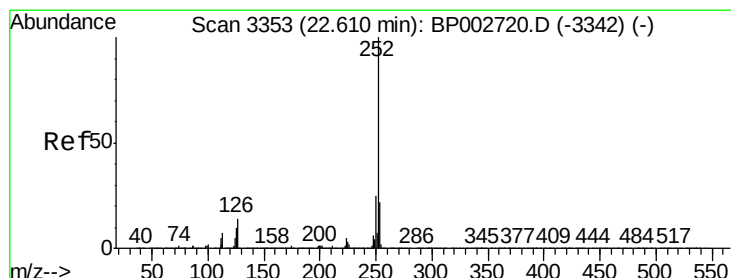
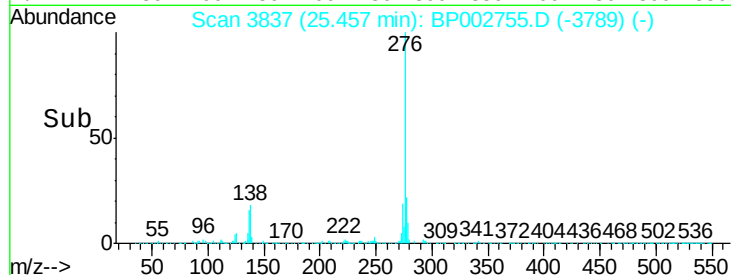
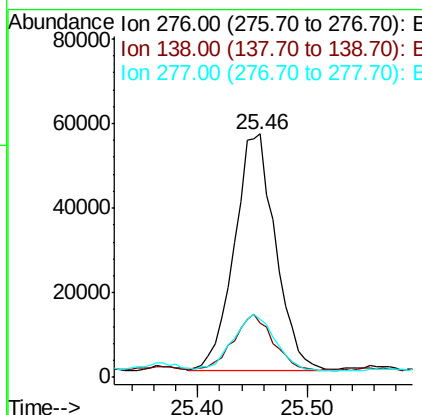
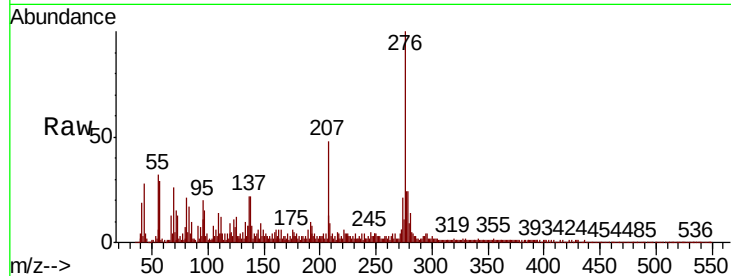




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.821 ng
 RT: 25.46 min Scan# 3837
 Delta R.T. -0.02 min
 Lab File: BP002755.D
 Acq: 15 Jul 2020 15:39

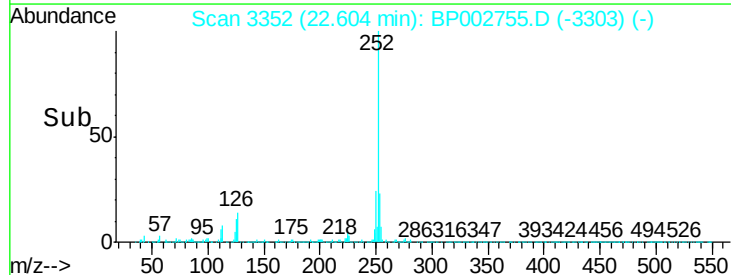
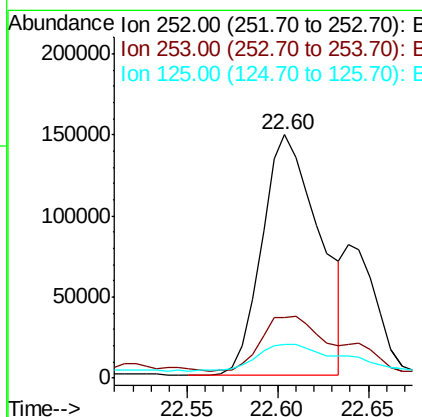
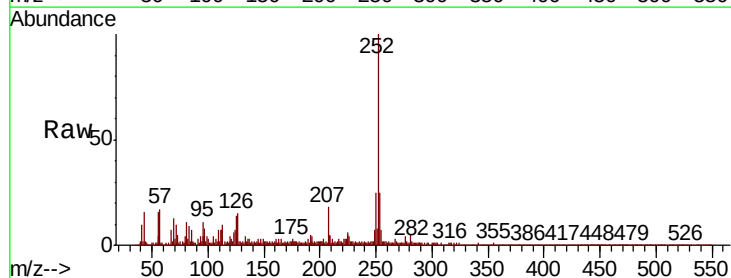
Instrument :
 BNA_P
 ClientSampleId :
 FK-GF-02-058-A

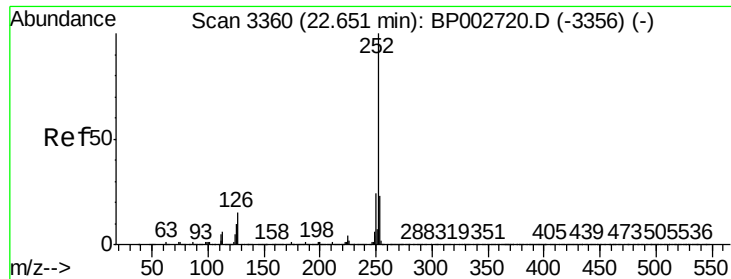
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.0	20.8	31.2
277	24.8	20.0	30.0



#88
 Benzo(b)fluoranthene
 Concen: 7.367 ng
 RT: 22.60 min Scan# 3352
 Delta R.T. -0.01 min
 Lab File: BP002755.D
 Acq: 15 Jul 2020 15:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.7	26.5
125	13.8	8.2	12.2

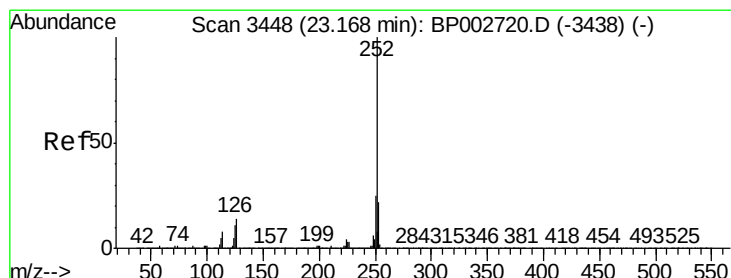
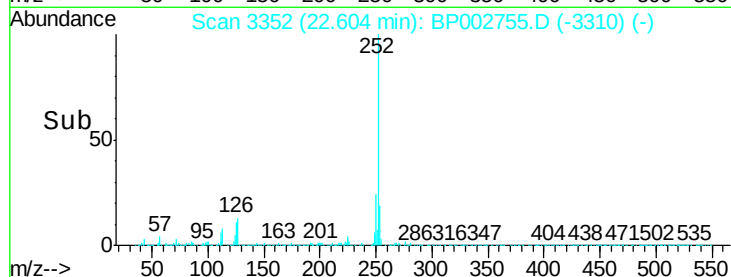
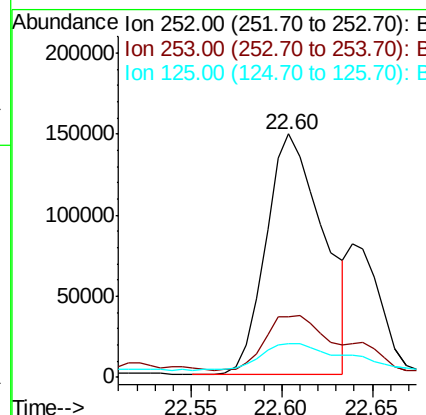
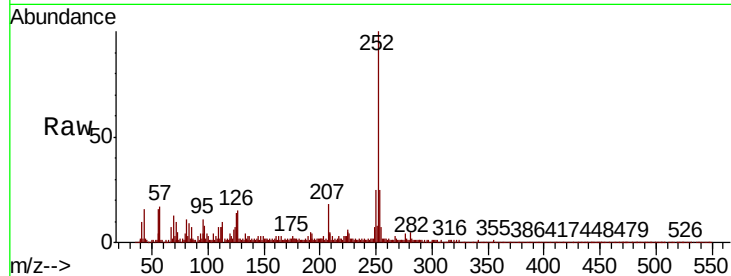




#89
Benzo(k)fluoranthene
Concen: 7.480 ng
RT: 22.60 min Scan# 3352
Delta R.T. -0.05 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

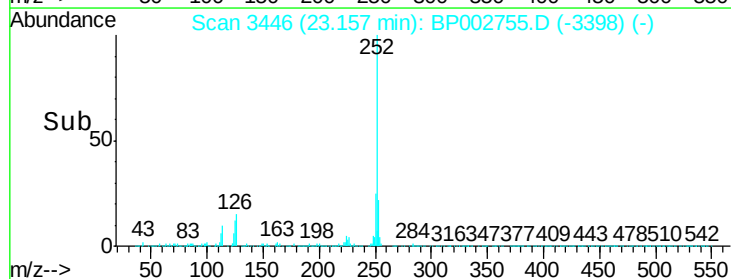
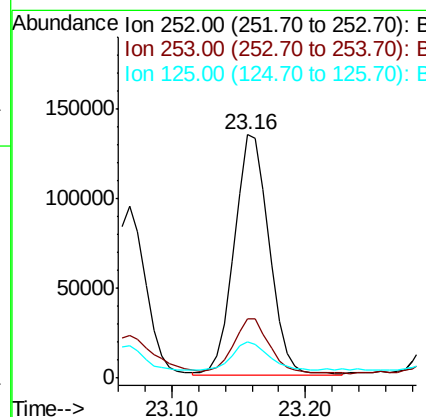
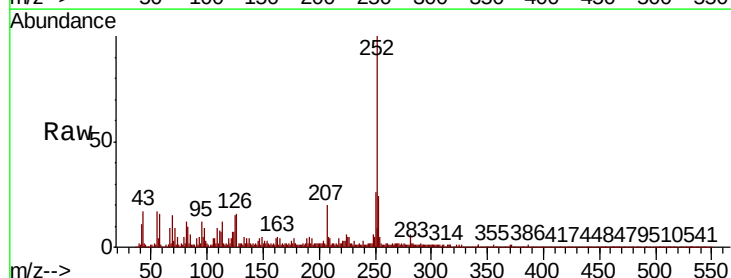
Instrument :
BNA_P
ClientSampleId :
FK-GF-02-058-A

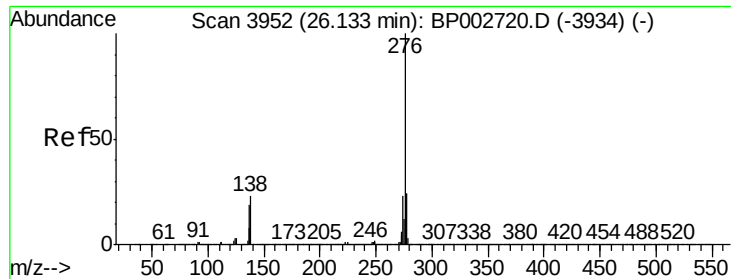
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.8	26.8
125	13.8	8.3	12.5



#90
Benzo(a)pyrene
Concen: 5.795 ng
RT: 23.16 min Scan# 3446
Delta R.T. -0.02 min
Lab File: BP002755.D
Acq: 15 Jul 2020 15:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.6	26.4
125	15.1	8.6	13.0





#92

Benzo(a,h,i)perylene

Concen: 3.593 ng

RT: 26.12 min Scan# 3950

Delta R.T. -0.02 min

Lab File: BP002755.D

Acq: 15 Jul 2020 15:39

Instrument :

BNA_P

ClientSampleId :

FK-GF-02-058-A

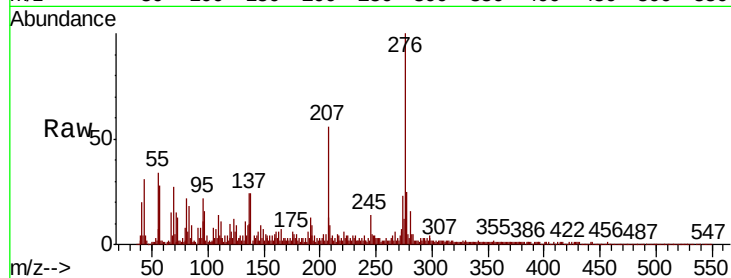
Tot Ion: 276 Resp: 152124

Ion Ratio Lower Upper

276 100

277 24.5 19.1 28.7

138 24.2 18.3 27.5



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

