

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080620\  
 Data File : BF121217.D  
 Acq On : 6 Aug 2020 22:44  
 Operator : JU/CG  
 Sample : L3574-01 2X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-060-A

Quant Time: Aug 07 00:34:05 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

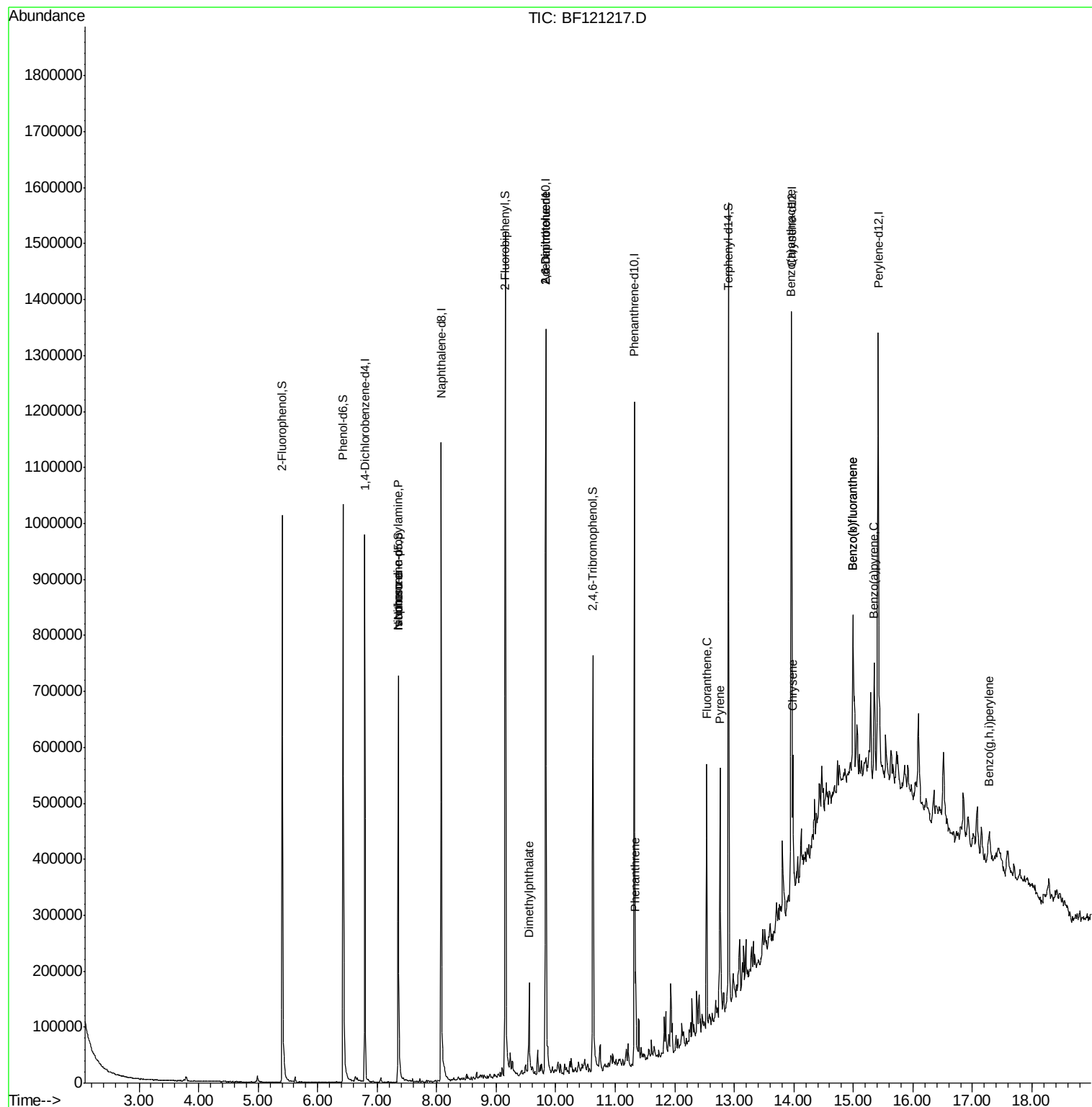
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 140232   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.07  | 136  | 542776   | 20.00     | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.83  | 164  | 271032   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.32 | 188  | 492058   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 13.96 | 240  | 357227   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.42 | 264  | 364806   | 20.00     | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.40  | 112  | 328433   | 38.39     | ng    | -0.01    |
| 7) Phenol-d6                   | 6.43  | 99   | 404612   | 36.62     | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.35  | 82   | 254542   | 27.14     | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.62 | 330  | 111791   | 37.68     | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.15  | 172  | 521737   | 28.74     | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.90 | 244  | 438941   | 26.71     | ng    | 0.00     |
| Target Compounds               |       |      |          | Qvalue    |       |          |
| 9) Benzaldehyde                | 6.43  | 77   | 522      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.35  | 70   | 32950    | 5.244     | ng    | # 80     |
| 25) Isophorone                 | 7.35  | 82   | 254541   | 13.596    | ng    | # 62     |
| 50) Dimethylphthalate          | 9.55  | 163  | 76203    | 3.897     | ng    | # 98     |
| 51) 2,6-Dinitrotoluene         | 9.83  | 165  | 36044    | 8.580     | ng    | # 27     |
| 57) 2,4-Dinitrotoluene         | 9.83  | 165  | 36044    | 6.534     | ng    | # 29     |
| 71) Phenanthrene               | 11.34 | 178  | 61662    | 2.437     | ng    | 99       |
| 75) Fluoranthene               | 12.53 | 202  | 182521   | 6.507     | ng    | 99       |
| 78) Pyrene                     | 12.76 | 202  | 196645   | 7.786     | ng    | 99       |
| 81) Benzo(a)anthracene         | 13.95 | 228  | 107362   | 4.963     | ng    | 95       |
| 83) Chrysene                   | 13.99 | 228  | 95862    | 4.217     | ng    | 96       |
| 88) Benzo(b)fluoranthene       | 14.99 | 252  | 181135   | 8.214     | ng    | # 94     |
| 89) Benzo(k)fluoranthene       | 14.99 | 252  | 181135   | 9.007     | ng    | # 95     |
| 90) Benzo(a)pyrene             | 15.35 | 252  | 101573   | 5.049     | ng    | 95       |
| 92) Benzo(a,h,i)perylene       | 17.28 | 276  | 49774    | 2.436     | ng    | # 92     |

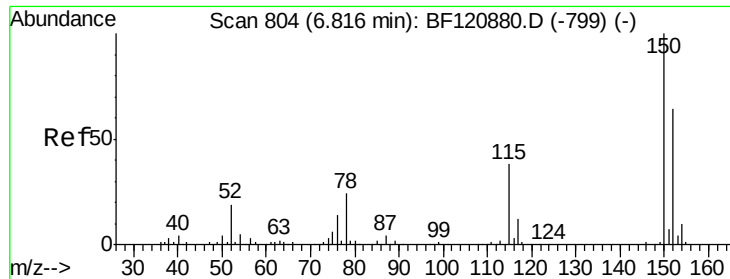
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080620\  
Data File : BF121217.D  
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Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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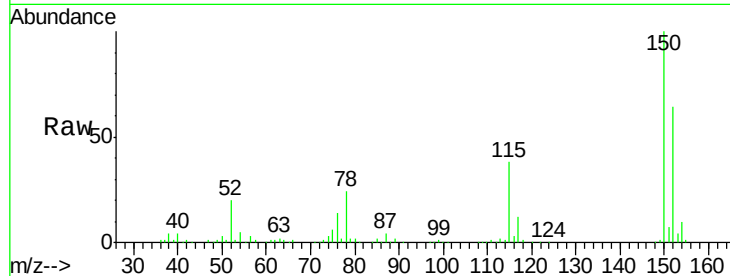


#1

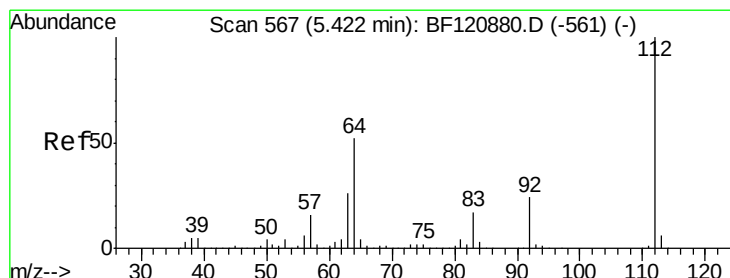
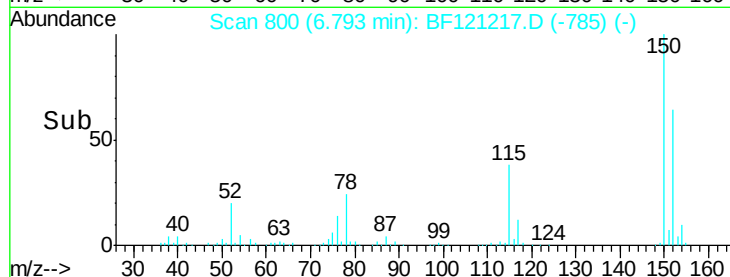
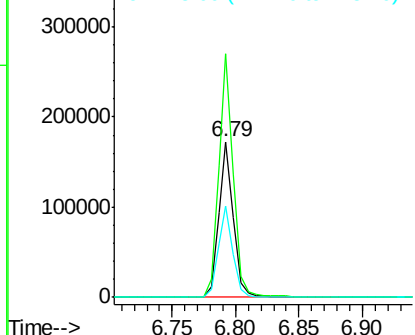
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.79 min Scan# 800  
 Delta R.T. -0.01 min  
 Lab File: BF121217.D  
 Acq: 6 Aug 2020 22:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-060-A

Tot Ion:152 Resp: 140232  
 Ion Ratio Lower Upper  
 152 100  
 150 156.2 125.6 188.4  
 115 58.6 46.2 69.2



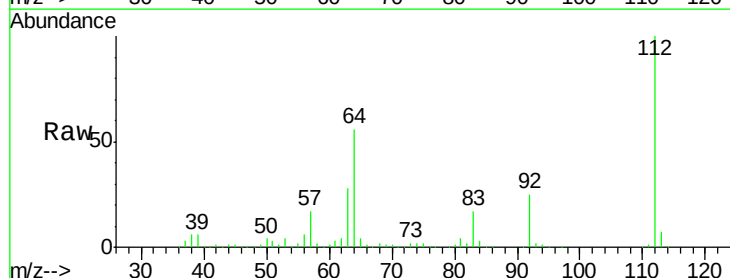
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



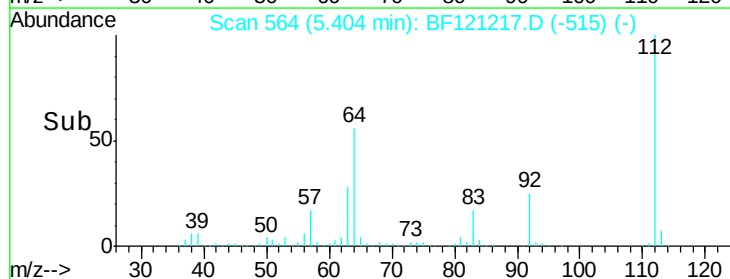
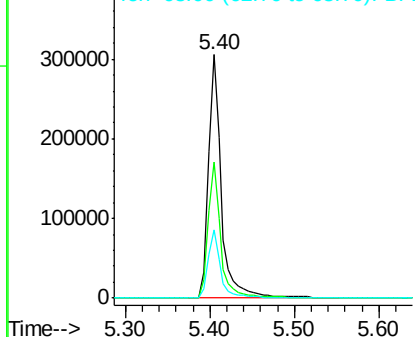
#5

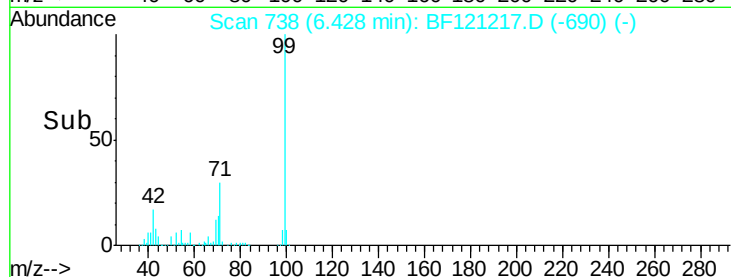
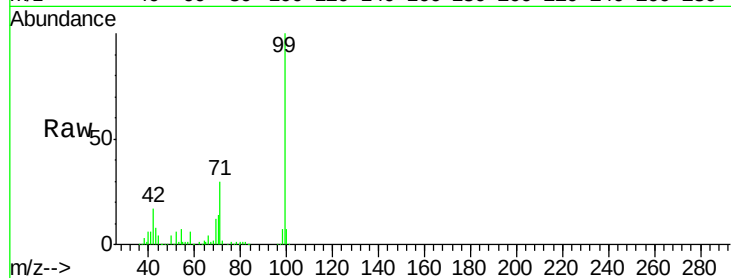
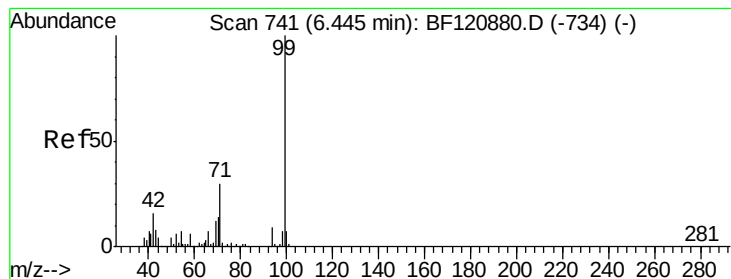
2-Fluorophenol  
 Concen: 38.395 ng  
 RT: 5.40 min Scan# 564  
 Delta R.T. -0.01 min  
 Lab File: BF121217.D  
 Acq: 6 Aug 2020 22:44

Tgt Ion:112 Resp: 328433  
 Ion Ratio Lower Upper  
 112 100  
 64 56.0 43.9 65.9  
 63 28.3 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: 36.617 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.02 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-060-A

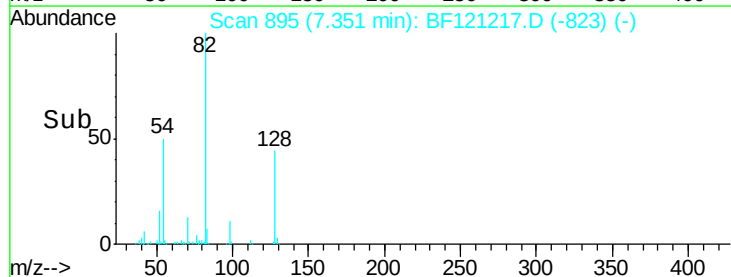
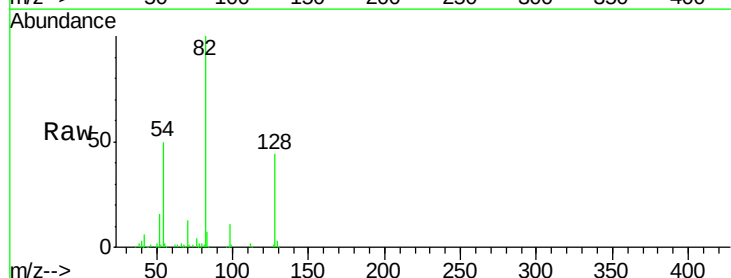
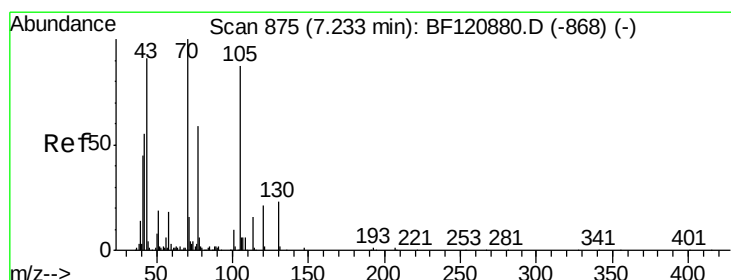
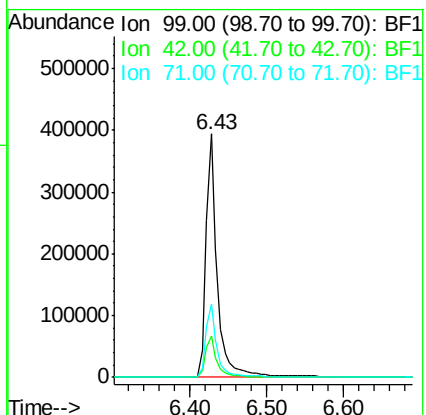
Tot Ion: 99 Resp: 404612

Ion Ratio Lower Upper

99 100

42 16.8 13.5 20.3

71 30.3 25.0 37.4



#19

n-Nitroso-di-n-propylamine

Concen: 5.244 ng

RT: 7.35 min Scan# 895

Delta R.T. 0.12 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

Tgt Ion: 70 Resp: 32950

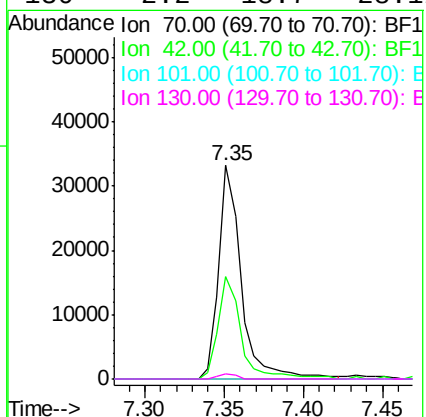
Ion Ratio Lower Upper

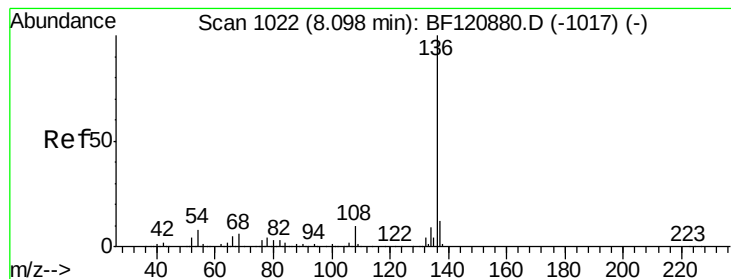
70 100

42 47.8 43.3 64.9

101 0.0 8.4 12.6#

130 2.2 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: BF121217.D

Acq: 6 Aug 2020 22:44

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-060-A

Tot Ion:136 Resp: 542776

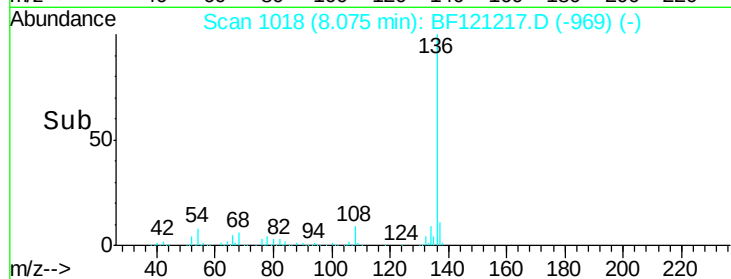
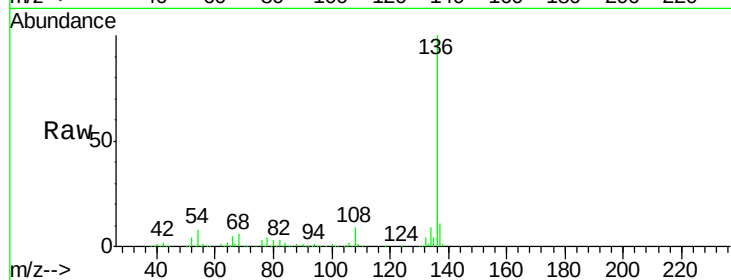
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 7.6 6.1 9.1

68 5.9 5.0 7.6

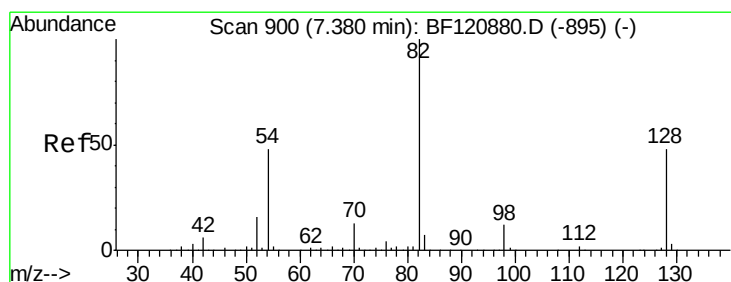
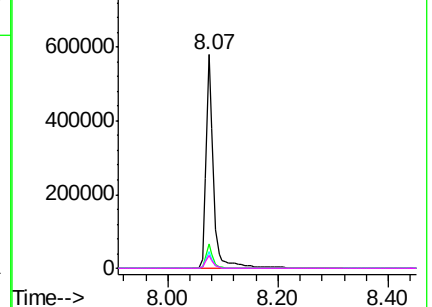


Abundance Ion 136.00 (135.70 to 136.70): E

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: 27.136 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.02 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

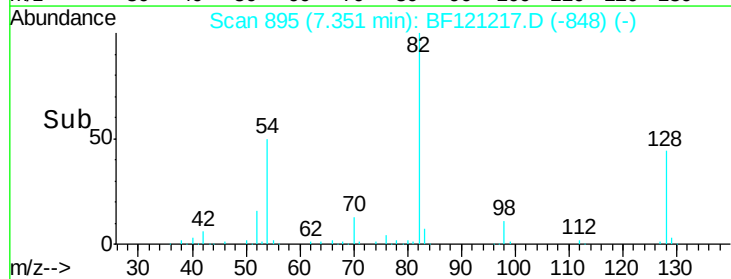
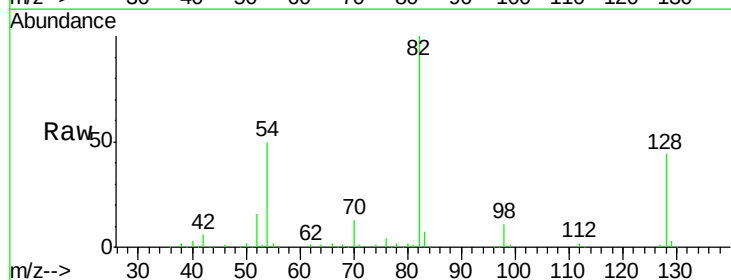
Tgt Ion: 82 Resp: 254542

Ion Ratio Lower Upper

82 100

128 43.9 39.2 58.8

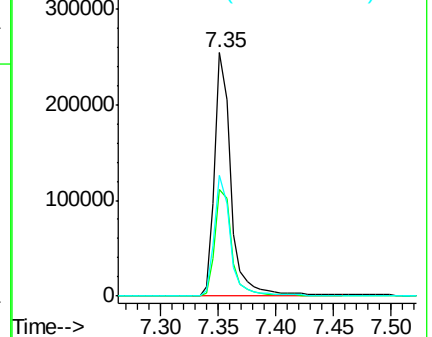
54 49.6 37.8 56.8

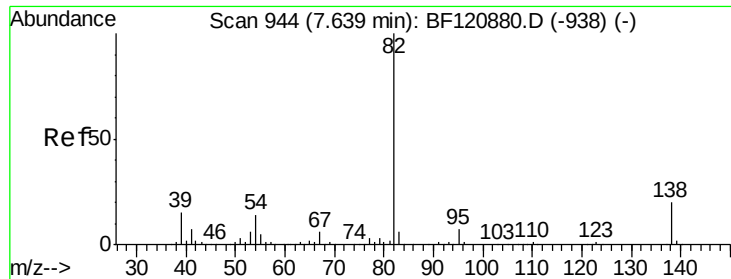


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 13.596 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.28 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-060-A

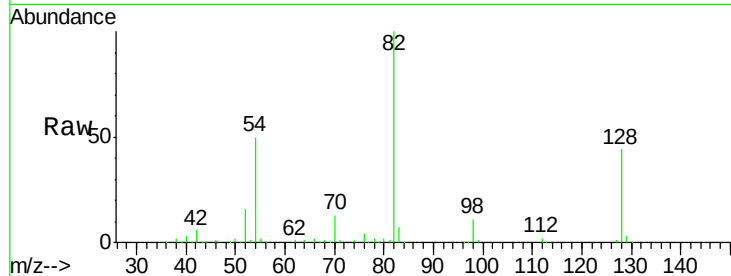
Tot Ion: 82 Resp: 254541

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

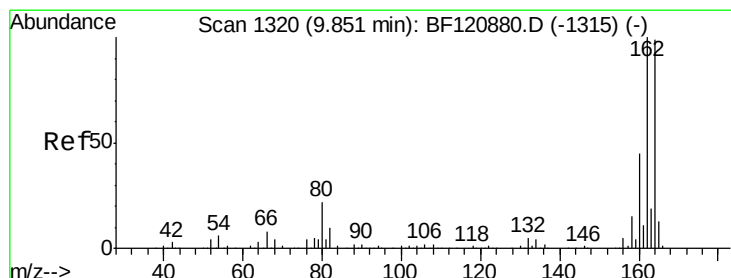
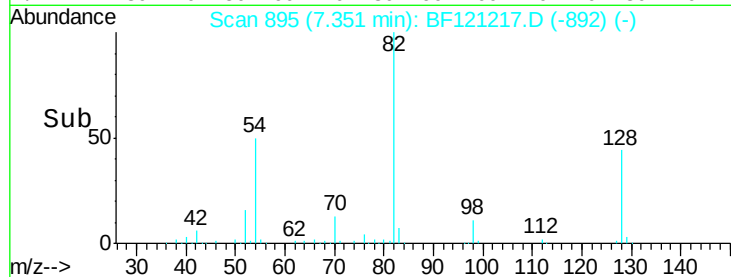
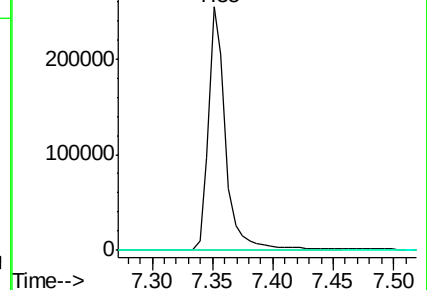
138 0.0 16.2 24.2#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

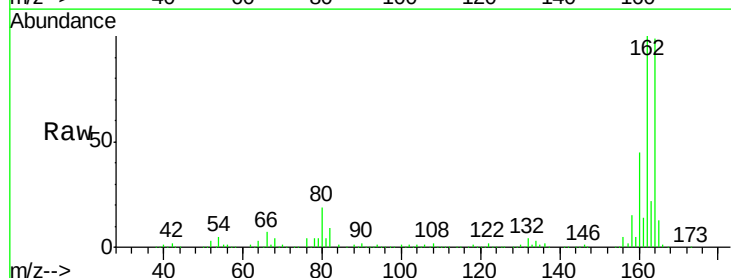
Tgt Ion: 164 Resp: 271032

Ion Ratio Lower Upper

164 100

162 100.8 82.2 123.2

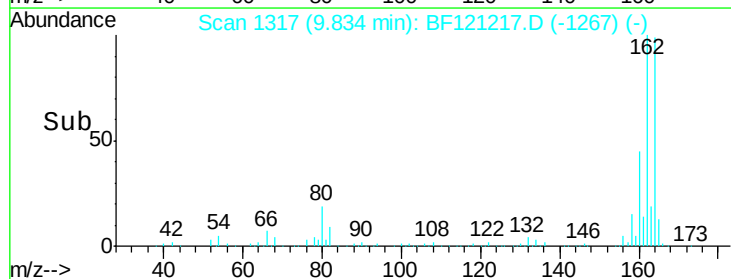
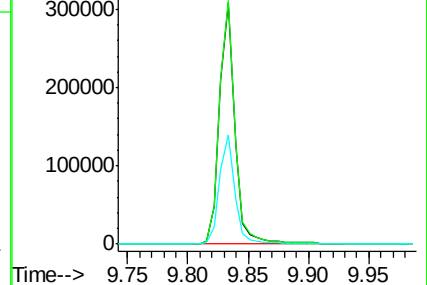
160 45.3 37.2 55.8

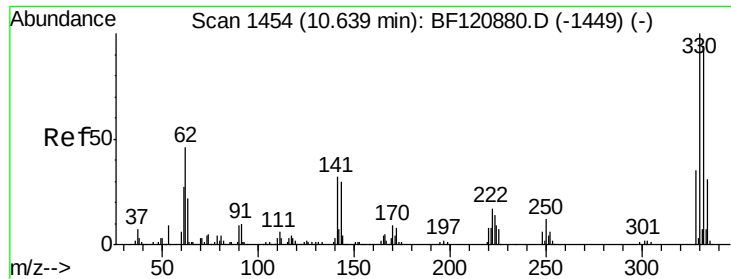


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 37.682 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-060-A

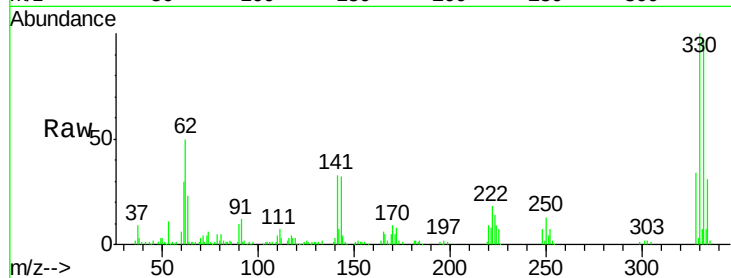
Tot Ion:330 Resp: 111791

Ion Ratio Lower Upper

330 100

332 96.3 76.1 114.1

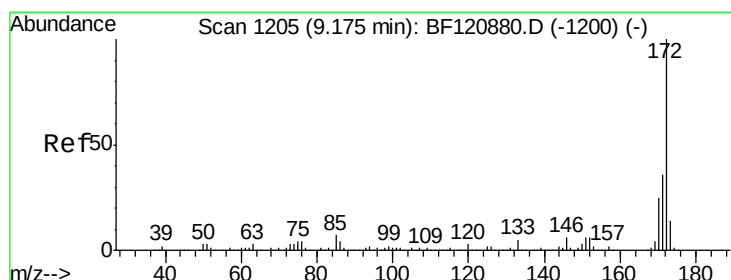
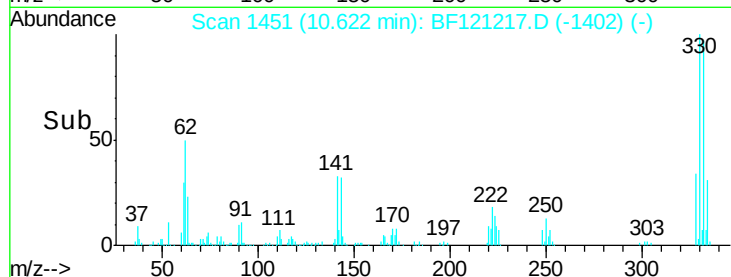
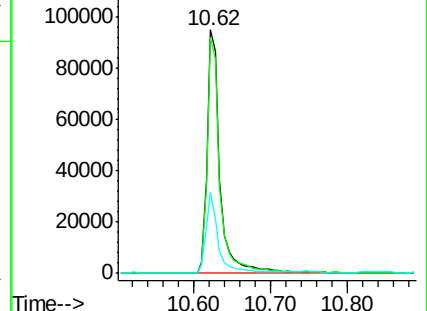
141 32.7 24.1 36.1



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: 28.741 ng

RT: 9.15 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

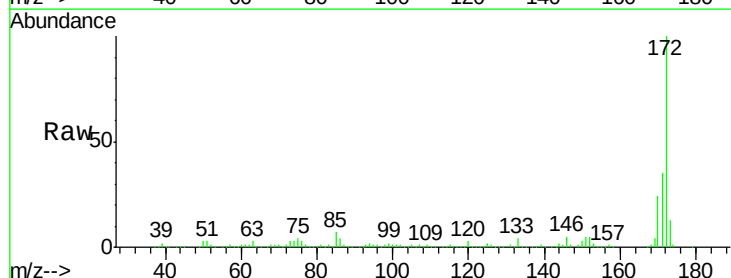
Tgt Ion:172 Resp: 521737

Ion Ratio Lower Upper

172 100

171 34.6 29.0 43.4

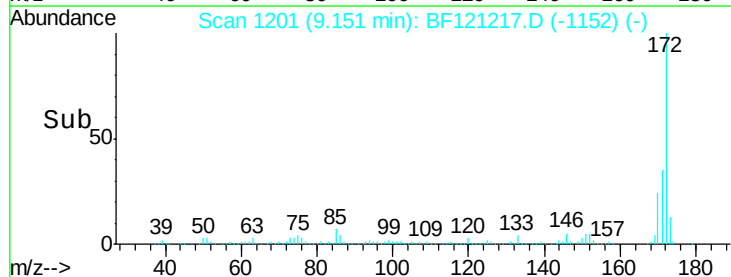
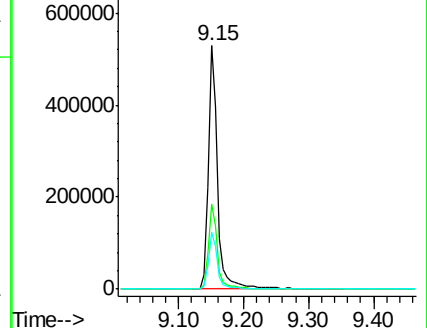
170 23.5 19.6 29.4

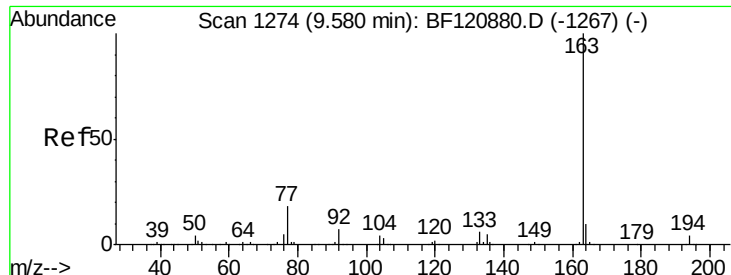


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 3.897 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.02 min

Lab File: BF121217.D

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FK-GF-02-060-A

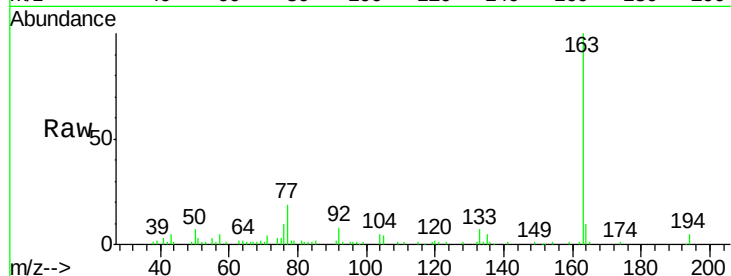
Tot Ion:163 Resp: 76203

Ion Ratio Lower Upper

163 100

194 4.5 3.0 4.4#

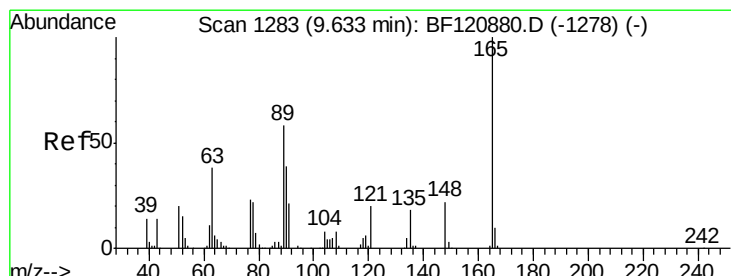
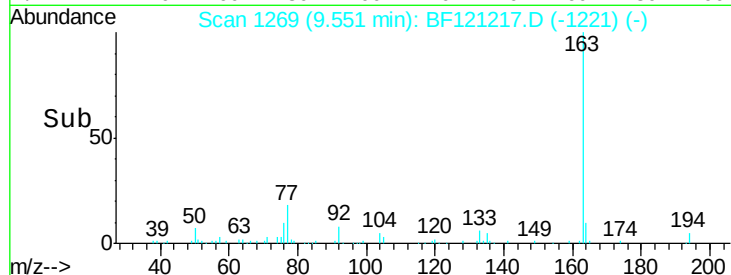
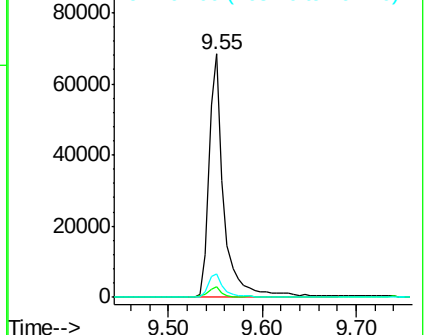
164 9.9 8.4 12.6



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



#51

2,6-Dinitrotoluene

Concen: 8.580 ng

RT: 9.83 min Scan# 1317

Delta R.T. 0.21 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

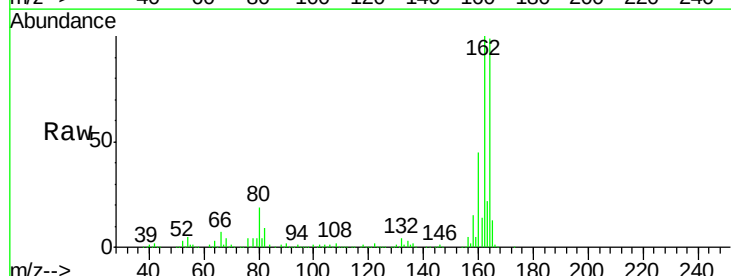
Tgt Ion:165 Resp: 36044

Ion Ratio Lower Upper

165 100

63 1.5 41.1 61.7#

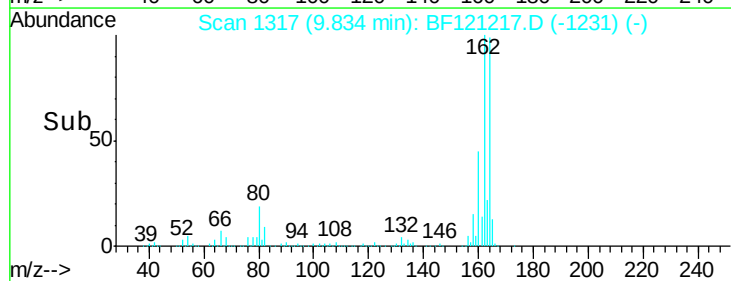
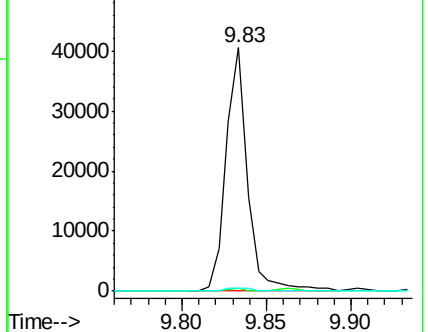
89 1.2 43.5 65.3#



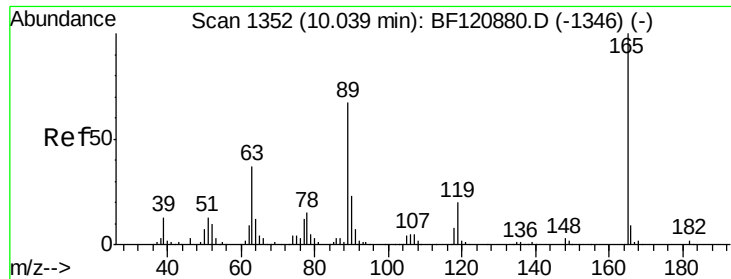
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1







#57

2,4-Dinitrotoluene

Concen: 6.534 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.20 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-060-A

Tot Ion:165 Resp: 36044

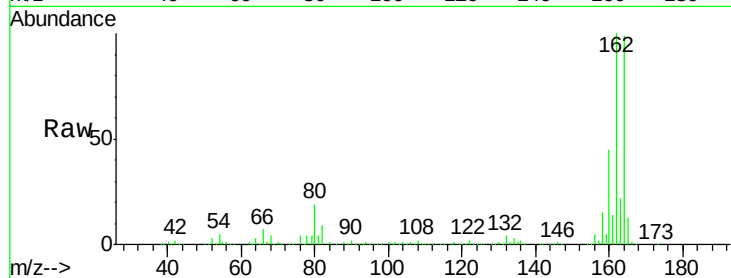
Ion Ratio Lower Upper

165 100

63 1.5 29.8 44.8#

89 1.2 50.3 75.5#

182 0.0 2.1 3.1#

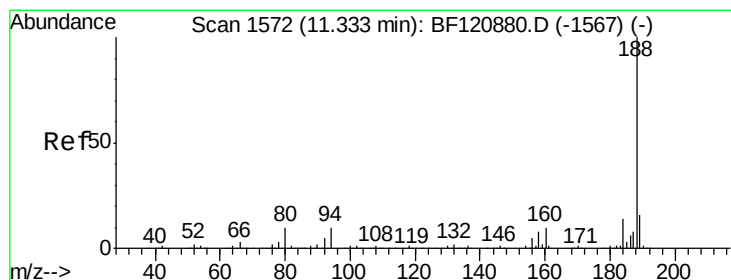
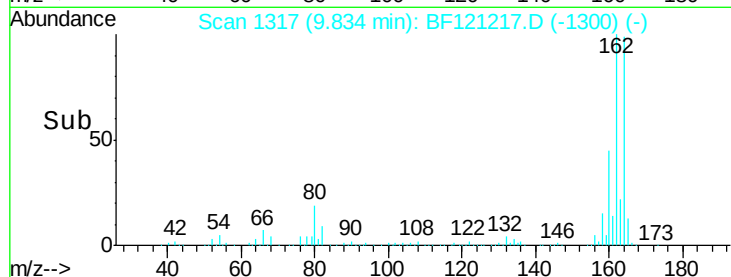
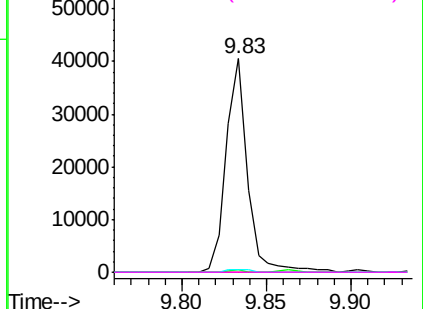


Abundance Ion 165.00 (164.70 to 165.70): E

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: BF121217.D

Acq: 6 Aug 2020 22:44

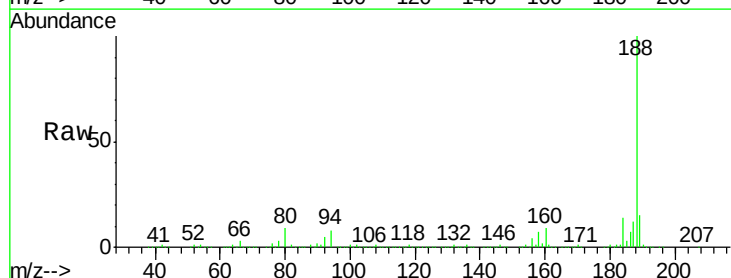
Tgt Ion:188 Resp: 492058

Ion Ratio Lower Upper

188 100

94 8.4 8.0 12.0

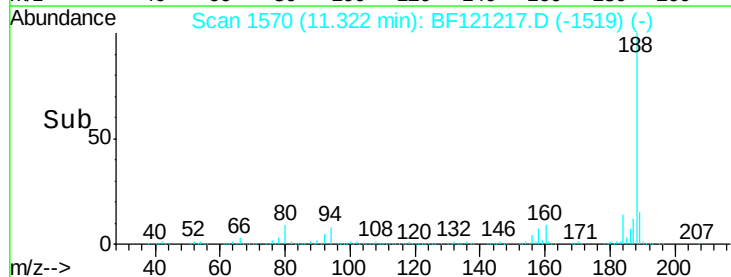
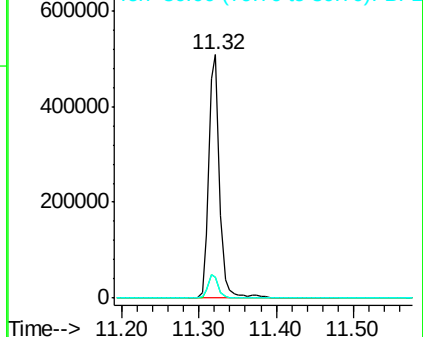
80 8.7 8.3 12.5

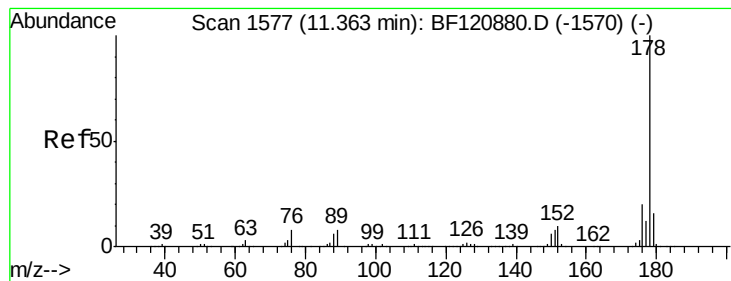


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 2.437 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-060-A

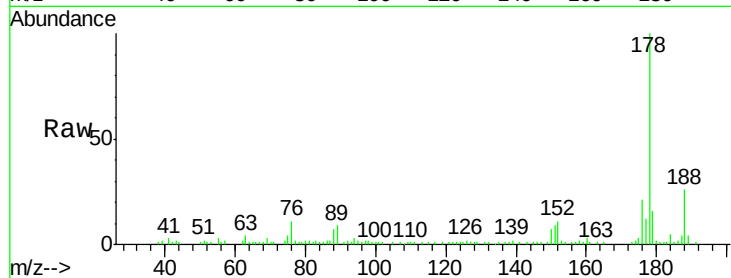
Tot Ion:178 Resp: 61662

Ion Ratio Lower Upper

178 100

176 20.6 16.2 24.2

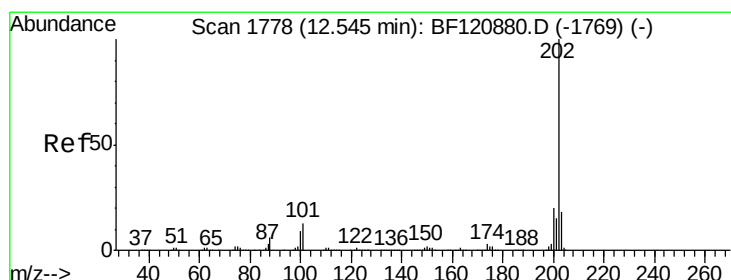
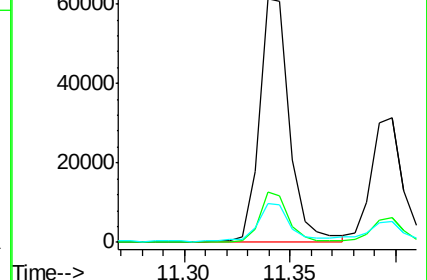
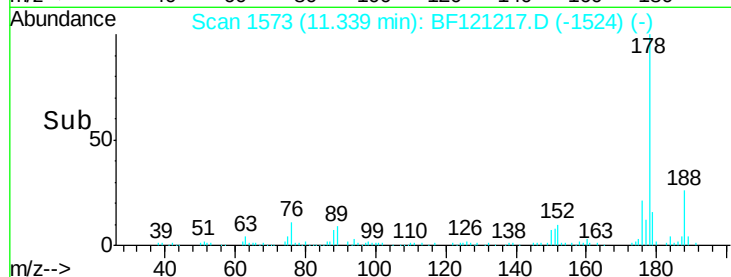
179 16.1 12.6 19.0



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: 6.507 ng

RT: 12.53 min Scan# 1776

Delta R.T. -0.01 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

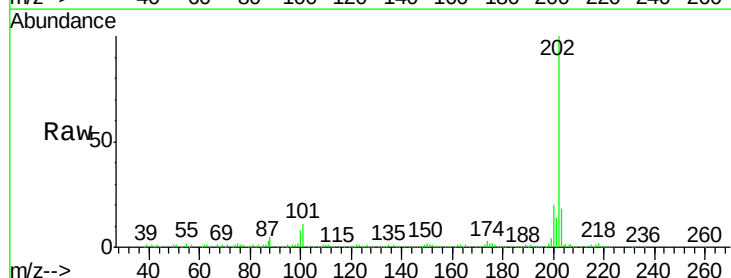
Tgt Ion:202 Resp: 182521

Ion Ratio Lower Upper

202 100

101 10.7 0.0 30.5

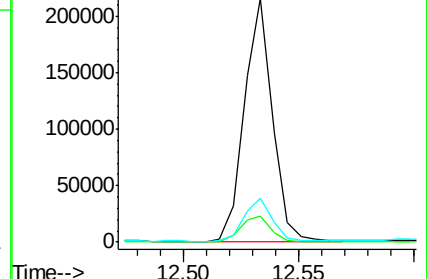
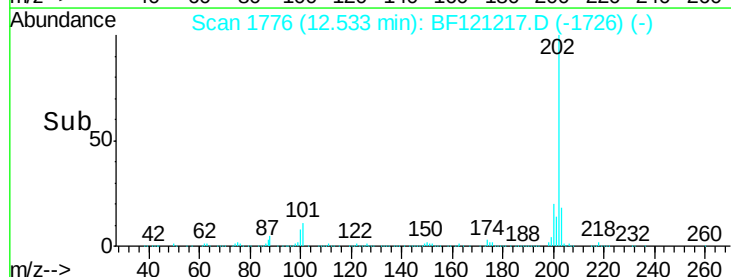
203 17.9 0.0 37.7

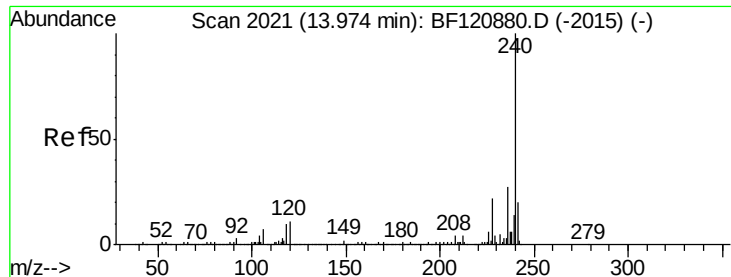


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

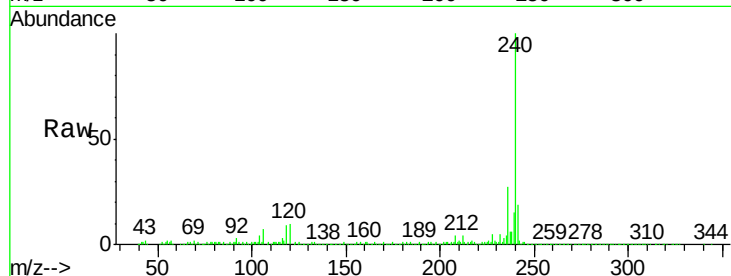




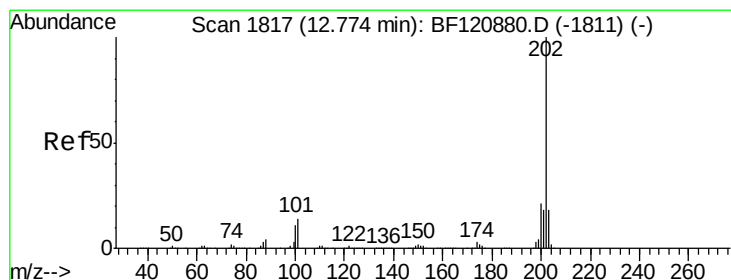
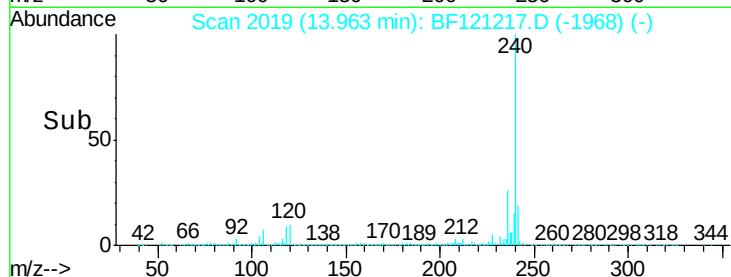
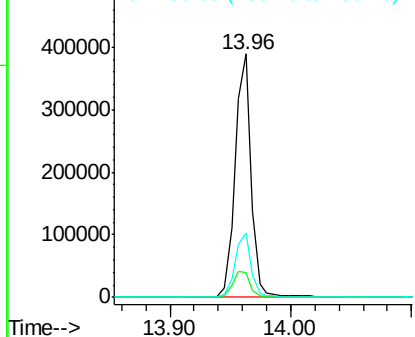
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. 0.00 min  
Lab File: BF121217.D  
Acq: 6 Aug 2020 22:44

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-060-A

Tot Ion:240 Resp: 357227  
Ion Ratio Lower Upper  
240 100  
120 10.4 9.3 13.9  
236 26.6 21.1 31.7

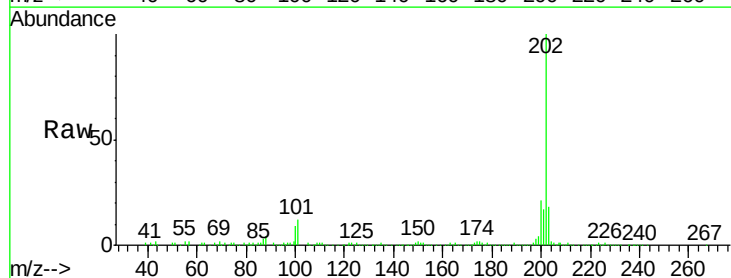


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

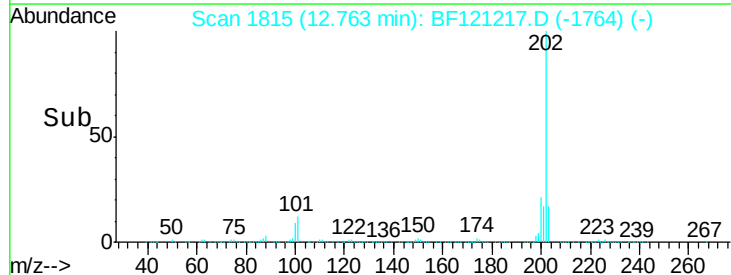
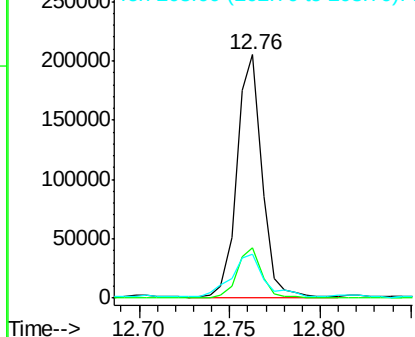


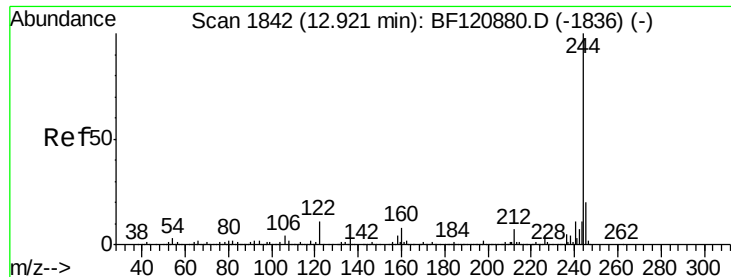
#78  
Pyrene  
Concen: 7.786 ng  
RT: 12.76 min Scan# 1815  
Delta R.T. 0.00 min  
Lab File: BF121217.D  
Acq: 6 Aug 2020 22:44

Tgt Ion:202 Resp: 196645  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.0 25.6  
203 18.1 14.6 21.8



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: 26.710 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-060-A

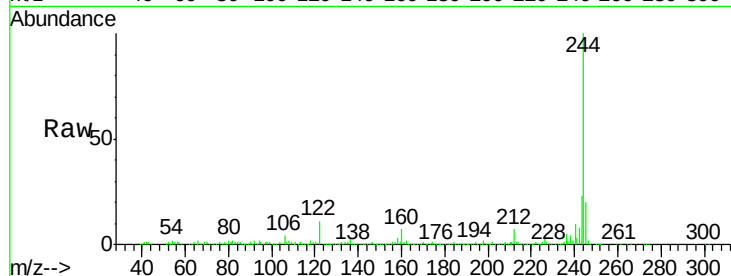
Tot Ion:244 Resp: 438941

Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

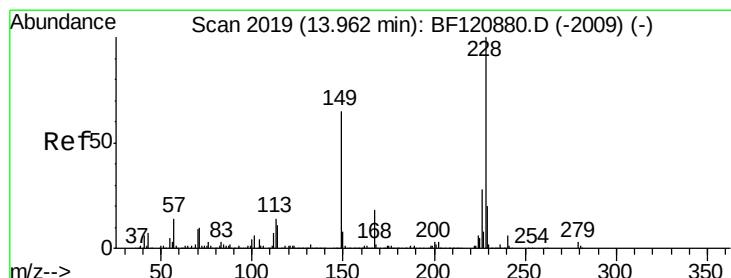
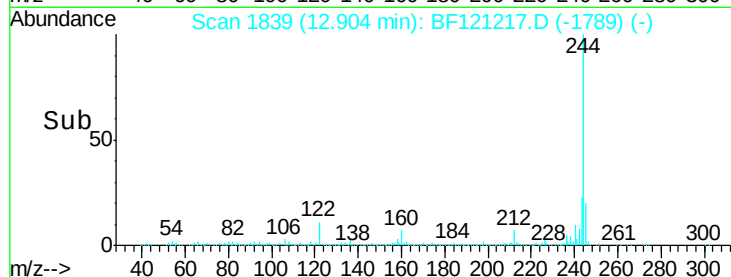
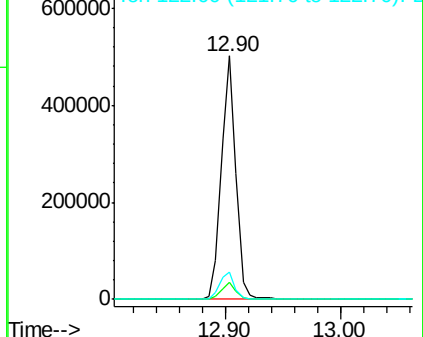
122 11.4 8.3 12.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 4.963 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.00 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

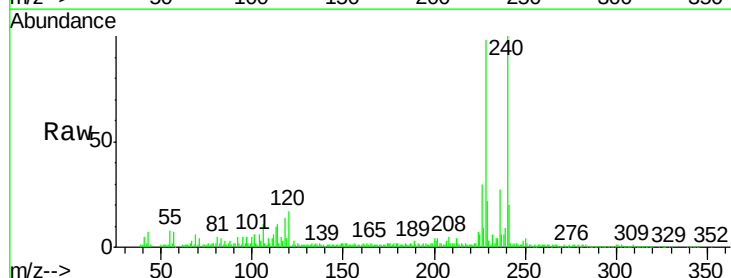
Tgt Ion:228 Resp: 107362

Ion Ratio Lower Upper

228 100

226 30.8 22.6 34.0

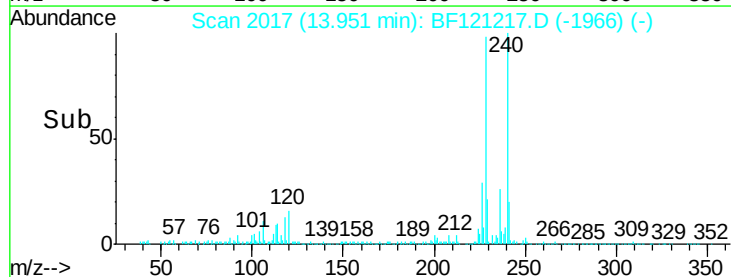
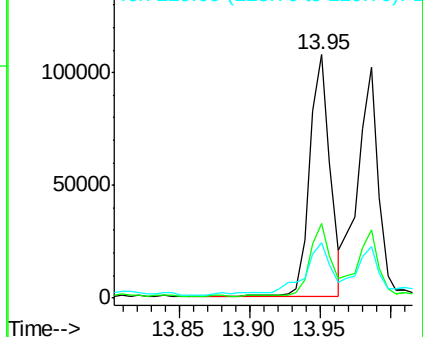
229 22.6 16.1 24.1

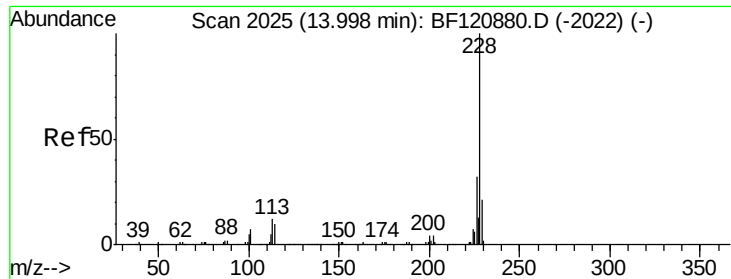


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

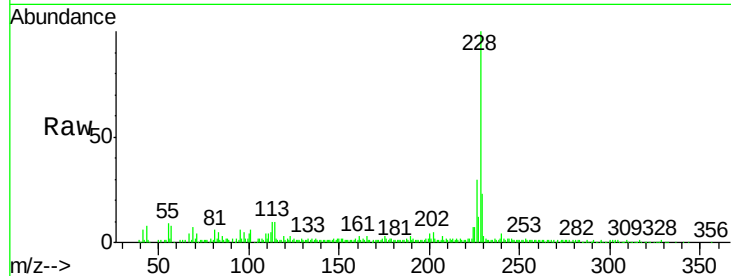




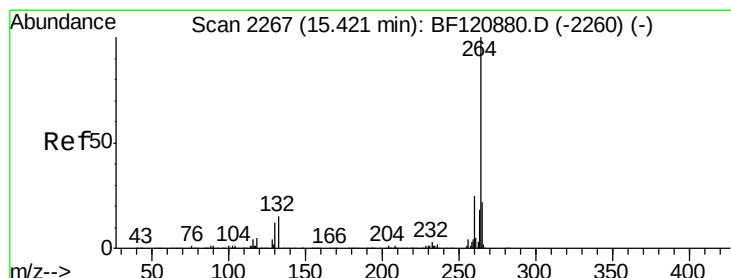
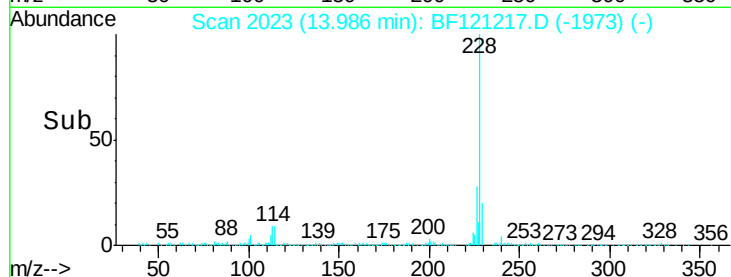
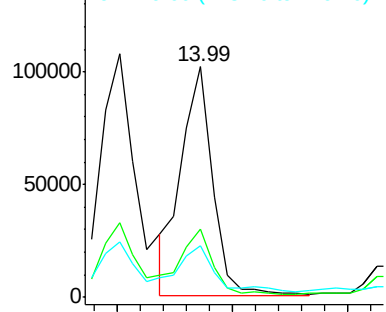
#83  
Chrysene  
Concen: 4.217 ng  
RT: 13.99 min Scan# 2023  
Delta R.T. -0.01 min  
Lab File: BF121217.D  
Acq: 6 Aug 2020 22:44

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-060-A

Tot Ion:228 Resp: 95862  
Ion Ratio Lower Upper  
228 100  
226 29.5 25.4 38.0  
229 22.6 16.2 24.4

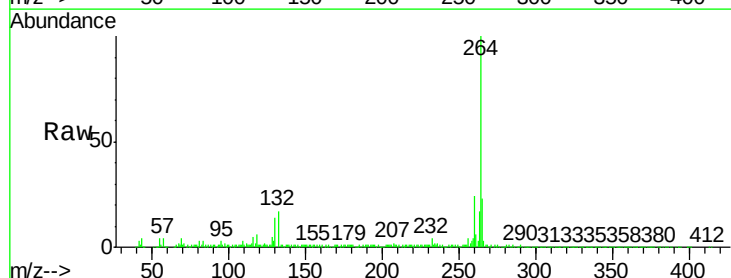


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

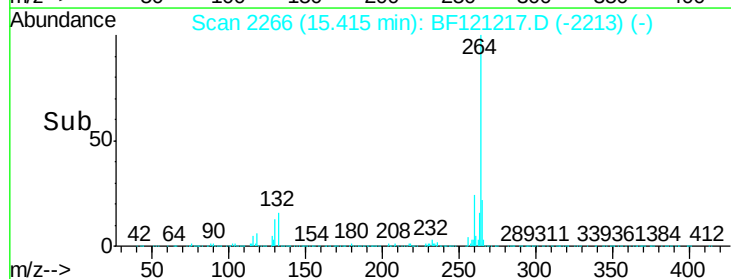
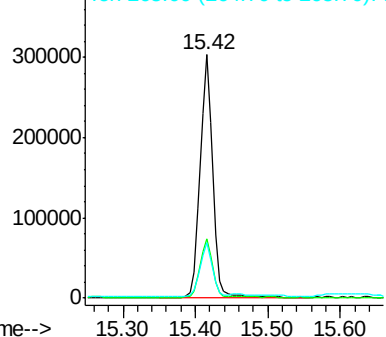


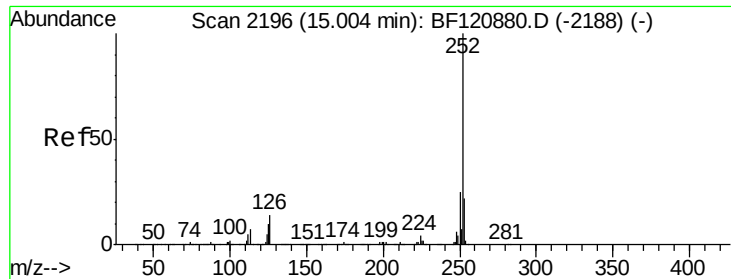
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2266  
Delta R.T. 0.01 min  
Lab File: BF121217.D  
Acq: 6 Aug 2020 22:44

Tgt Ion:264 Resp: 364806  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.9 29.9  
265 22.7 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





#88

Benzo(b)fluoranthene

Concen: 8.214 ng

RT: 14.99 min Scan# 2194

Delta R.T. 0.00 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

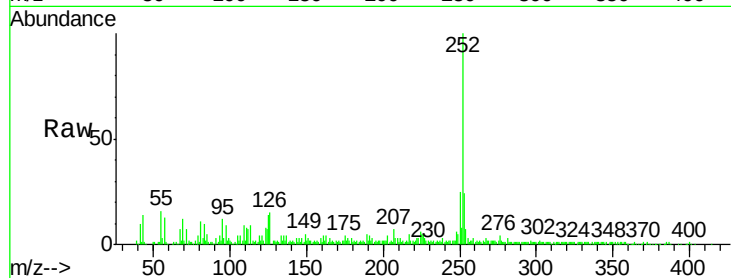
Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-060-A

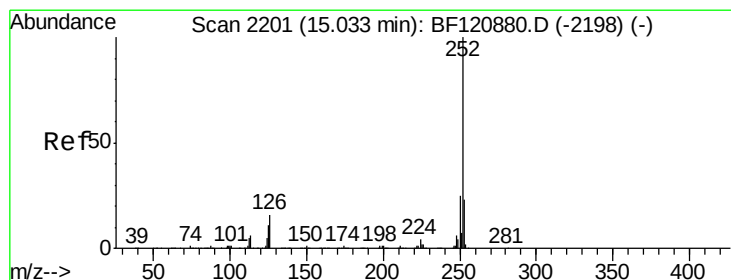
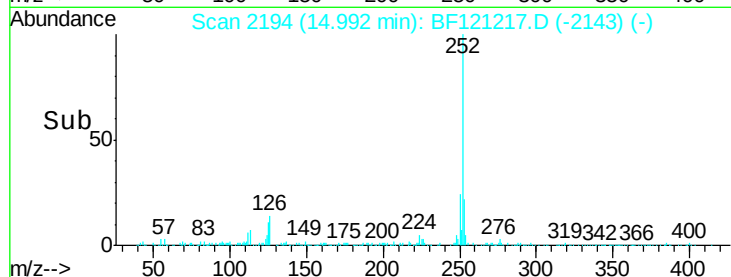
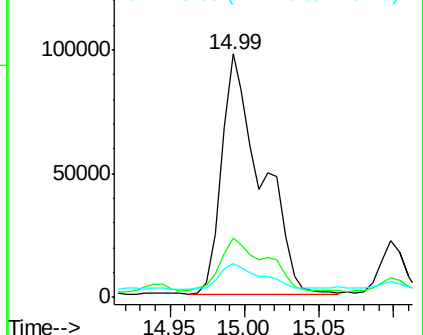
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:252 | Resp: | 181135    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 24.2  | 17.9 26.9 |
| 125         | 13.7  | 8.1 12.1# |



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 9.007 ng

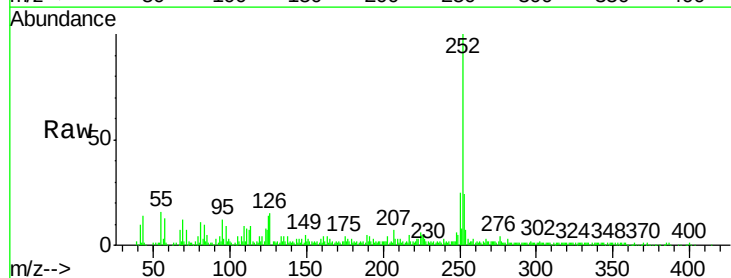
RT: 14.99 min Scan# 2194

Delta R.T. -0.03 min

Lab File: BF121217.D

Acq: 6 Aug 2020 22:44

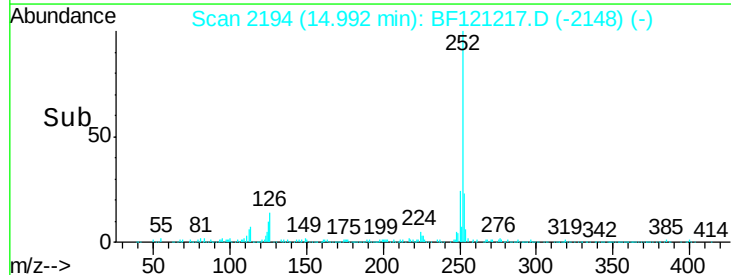
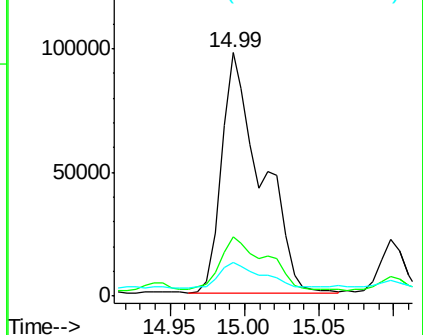
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 181135    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 24.2  | 18.1 27.1 |
| 125         | 13.7  | 8.0 12.0# |

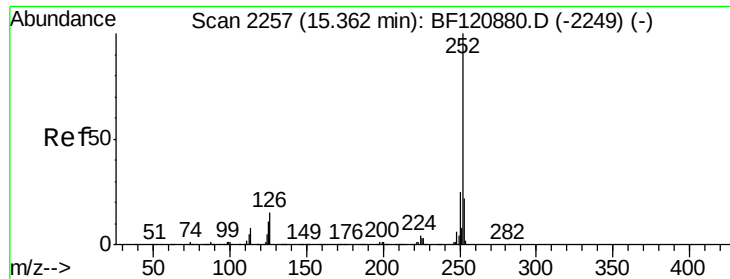


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

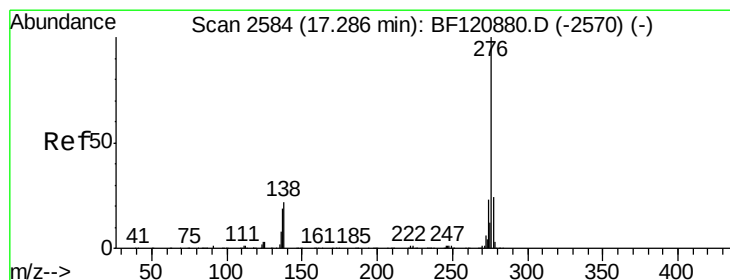
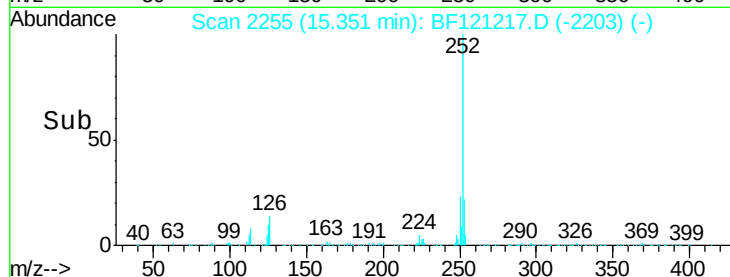
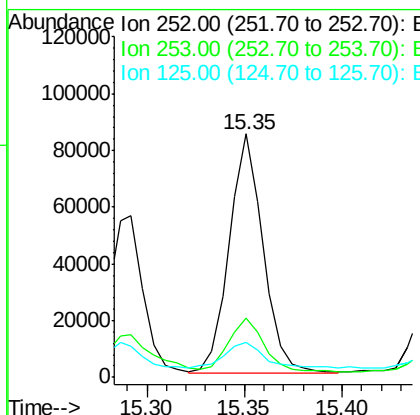
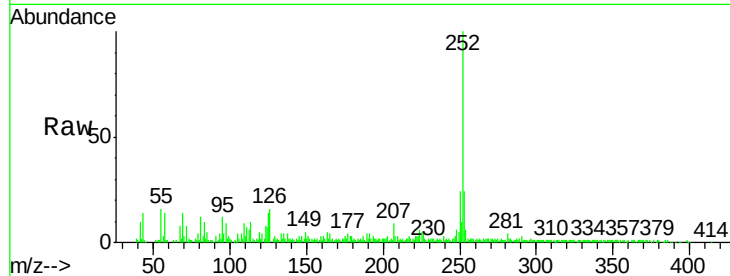




#90  
Benzo(a)pyrene  
Concen: 5.049 ng  
RT: 15.35 min Scan# 2255  
Delta R.T. 0.01 min  
Lab File: BF121217.D  
Acq: 6 Aug 2020 22:44

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-060-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 18.0  | 27.0  |
| 125     | 14.3  | 9.5   | 14.3  |



#92  
Benzo(g,h,i)perylene  
Concen: 2.436 ng  
RT: 17.28 min Scan# 2583  
Delta R.T. 0.02 min  
Lab File: BF121217.D  
Acq: 6 Aug 2020 22:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.7  | 19.4  | 29.0  |
| 138     | 25.9  | 17.2  | 25.8  |

