

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060719\  
 Data File : BF114916.D  
 Acq On : 8 Jun 2019 3:11  
 Operator : HP/JU  
 Sample : K3250-02  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHIMNEY-1

Quant Time: Jun 10 08:36:54 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 04 16:57:15 2019  
 Response via : Initial Calibration

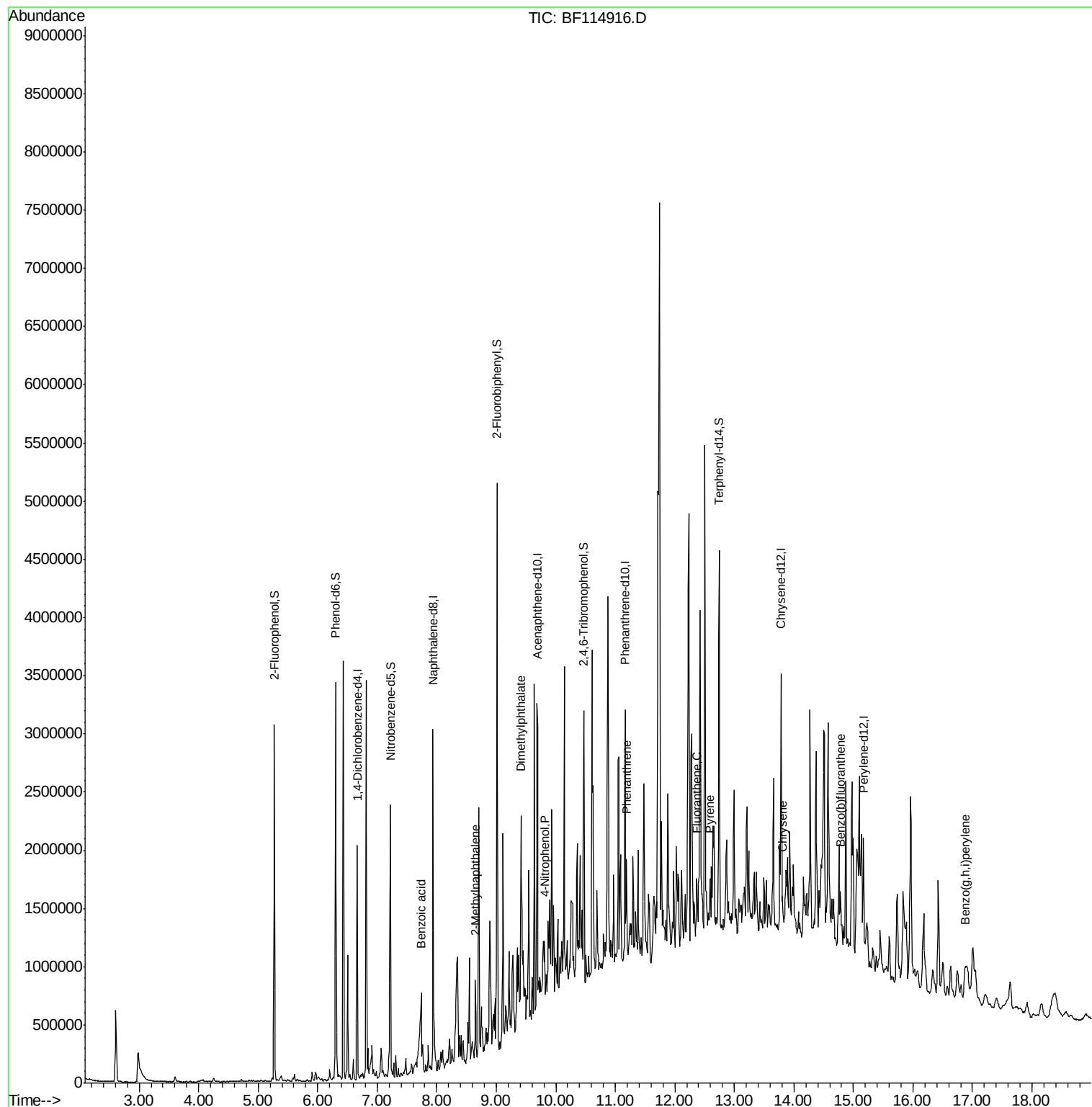
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.66  | 152  | 306576   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.94  | 136  | 1133327  | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.69  | 164  | 506049   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.16 | 188  | 809721   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.79 | 240  | 588442   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.17 | 264  | 438696   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.27  | 112  | 1000008  | 57.00  | ng    | 0.01     |
| 7) Phenol-d6                | 6.30  | 99   | 1217291  | 57.02  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.22  | 82   | 700096   | 38.03  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.47 | 330  | 256678   | 47.07  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.02  | 172  | 1337926  | 49.53  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.75 | 244  | 1082123  | 35.76  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 32) Benzoic acid            | 7.73  | 122  | 211646   | 18.508 | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.65  | 142  | 131943   | 3.728  | ng    | 98       |
| 50) Dimethylphthalate       | 9.41  | 163  | 84976    | 2.299  | ng    | 98       |
| 56) 4-Nitrophenol           | 9.82  | 139  | 98842    | 13.284 | ng    | 94       |
| 71) Phenanthrene            | 11.19 | 178  | 293746   | 7.599  | ng    | 99       |
| 75) Fluoranthene            | 12.37 | 202  | 160829   | 3.997  | ng    | 95       |
| 78) Pyrene                  | 12.60 | 202  | 146466   | 2.869  | ng    | 97       |
| 83) Chrysene                | 13.81 | 228  | 95697    | 2.169  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 14.79 | 252  | 91557m   | 3.278  | ng    |          |
| 92) Benzo(q,h,i)perylene    | 16.87 | 276  | 46502    | 2.020  | ng    | # 90     |

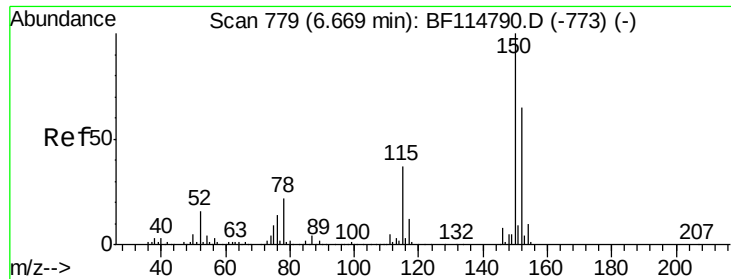
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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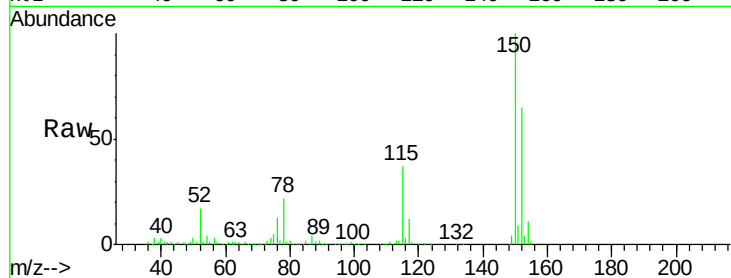


#1

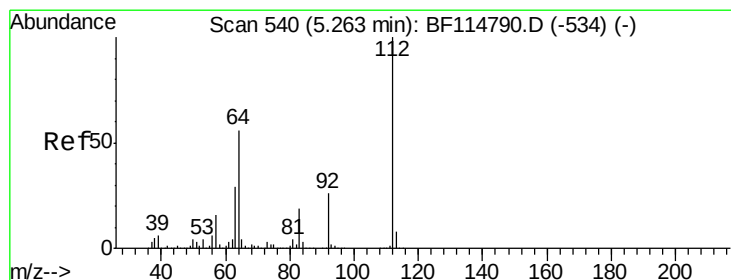
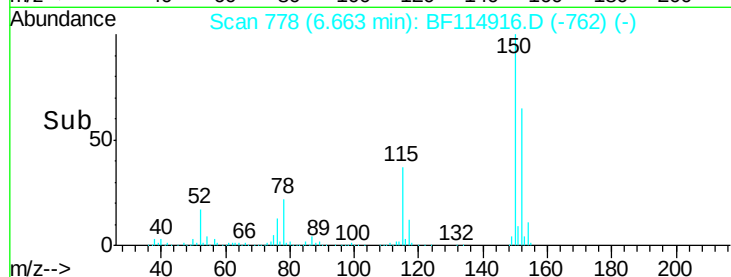
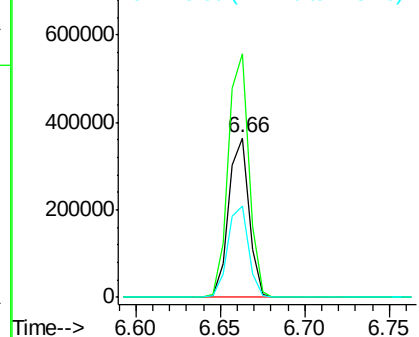
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.66 min Scan# 778  
Delta R.T. -0.01 min  
Lab File: BF114916.D  
Acq: 8 Jun 2019 3:11

Instrument :  
BNA\_F  
ClientSampleId :  
CHIMNEY-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.0 | 124.0 | 186.0 |
| 115     | 57.1  | 46.3  | 69.5  |



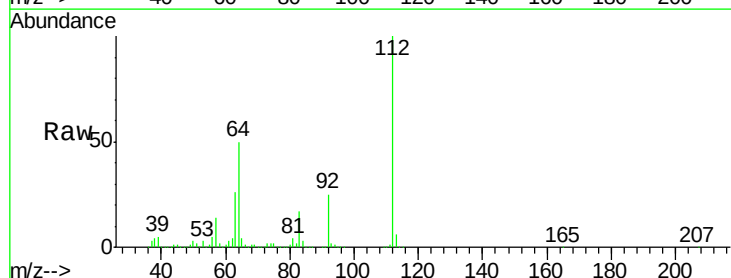
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



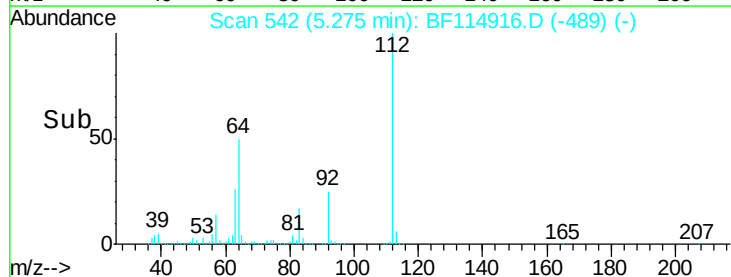
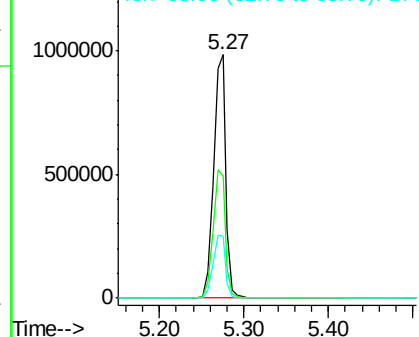
#5

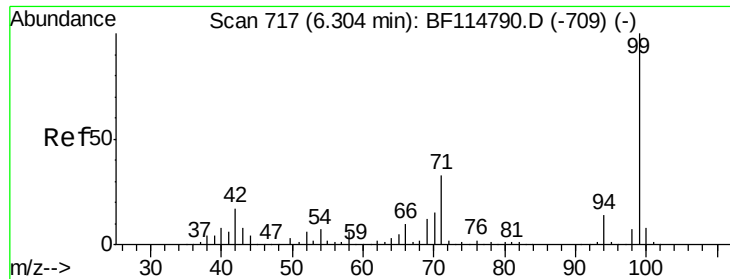
2-Fluorophenol  
Concen: 56.996 ng  
RT: 5.27 min Scan# 542  
Delta R.T. 0.01 min  
Lab File: BF114916.D  
Acq: 8 Jun 2019 3:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 50.3  | 44.6  | 66.8  |
| 63      | 25.5  | 23.0  | 34.4  |



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





#7

Phenol-d6

Concen: 57.019 ng

RT: 6.30 min Scan# 717

Delta R.T. 0.00 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

Instrument :

BNA\_F

ClientSampleId :

CHIMNEY-1

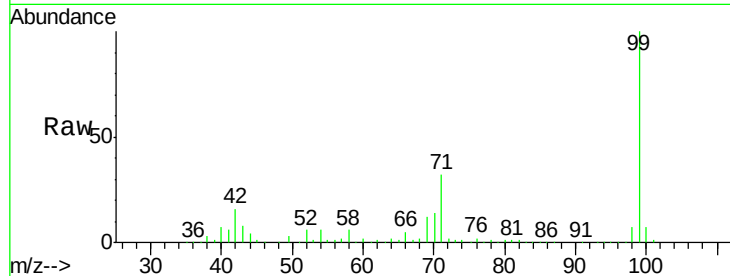
Tot Ion: 99 Resp: 1217291

Ion Ratio Lower Upper

99 100

42 16.3 13.3 19.9

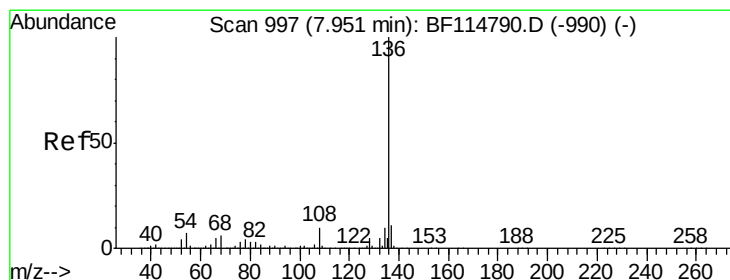
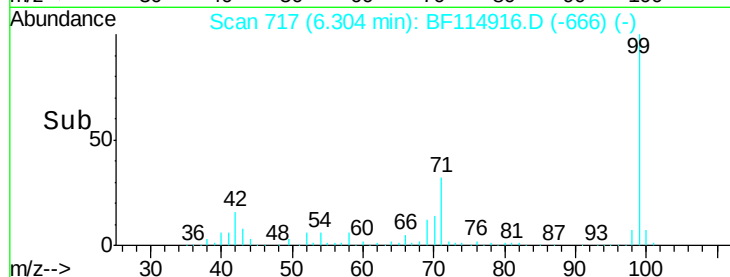
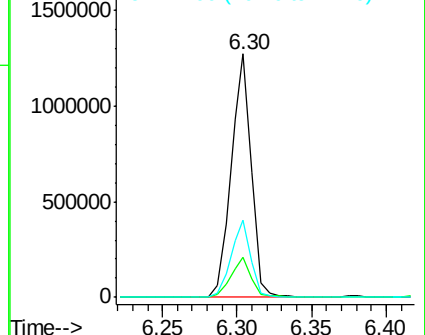
71 32.0 26.3 39.5



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.94 min Scan# 995

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

Tgt Ion: 136 Resp: 1133327

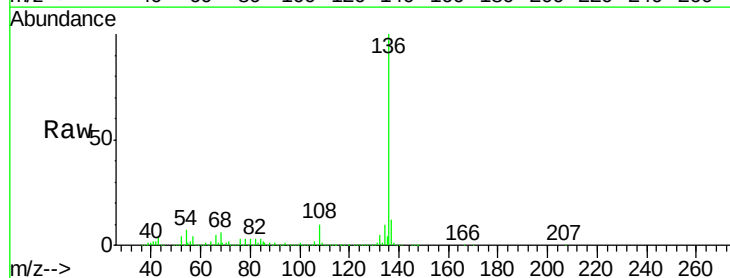
Ion Ratio Lower Upper

136 100

137 11.6 9.1 13.7

54 7.5 5.4 8.0

68 6.3 4.6 6.8

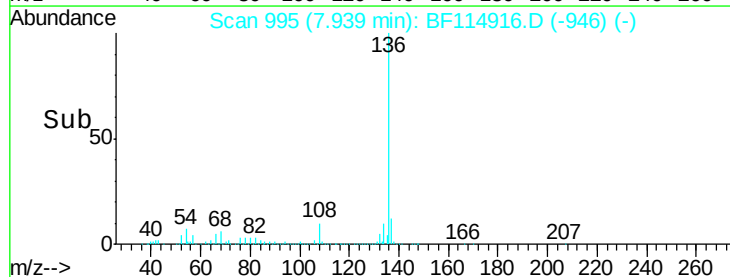
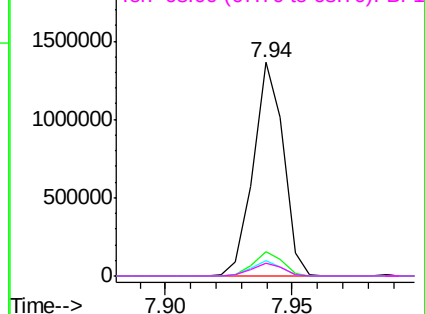


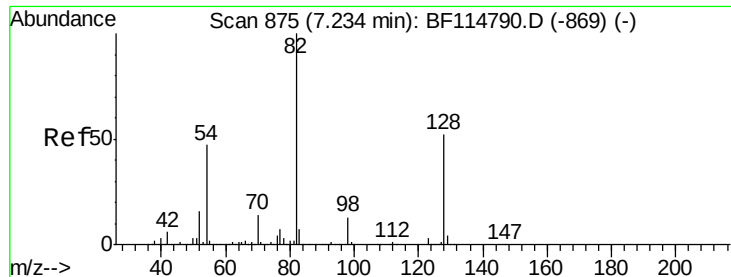
Abundance Ion 136.00 (135.70 to 136.70): E

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

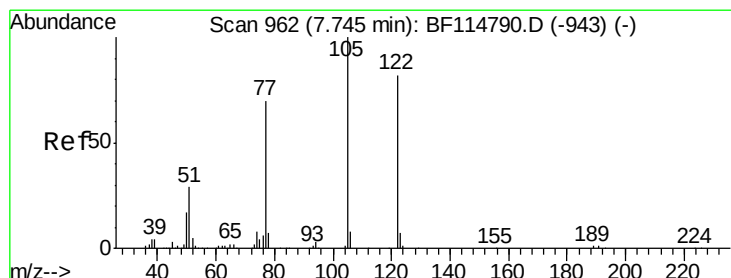
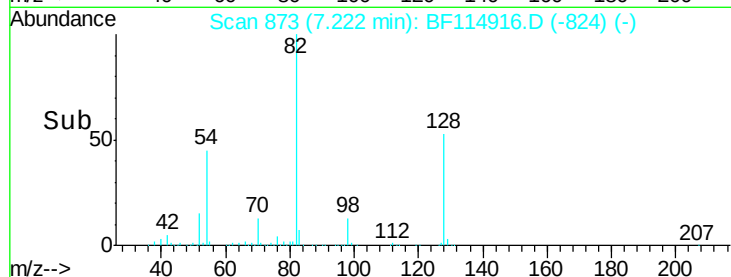
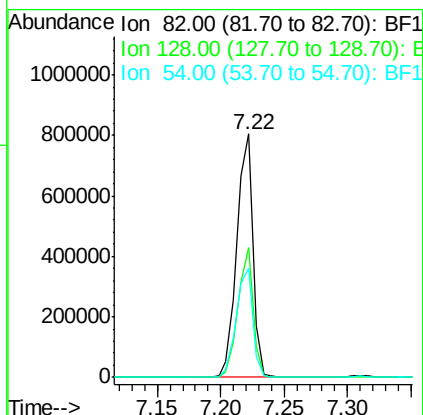
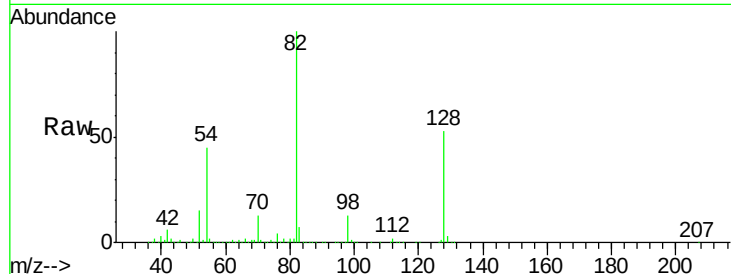




#23  
Nitrobenzene-d5  
Concen: 38.027 ng  
RT: 7.22 min Scan# 873  
Delta R.T. -0.01 min  
Lab File: BF114916.D  
Acq: 8 Jun 2019 3:11

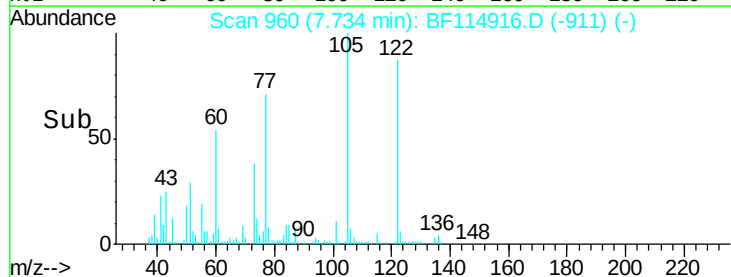
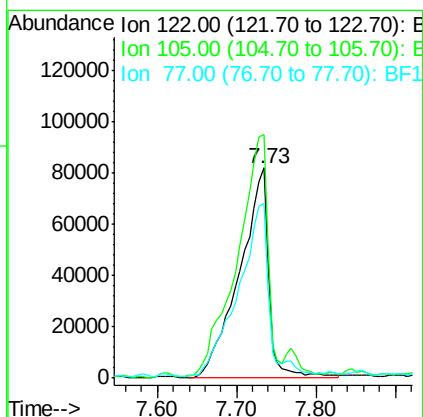
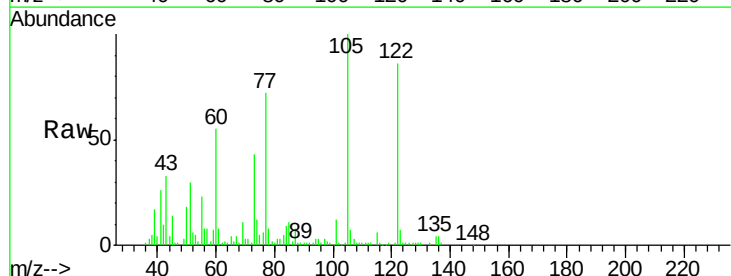
Instrument :  
BNA\_F  
ClientSampleId :  
CHIMNEY-1

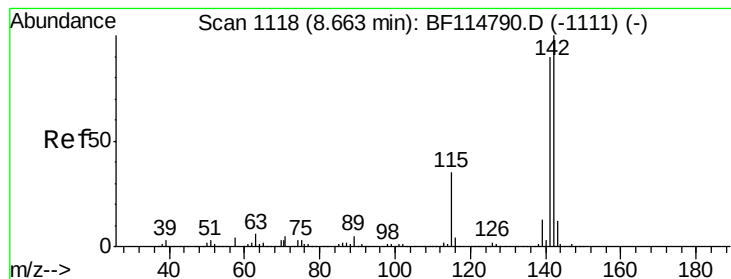
Tot Ion: 82 Resp: 700096  
Ion Ratio Lower Upper  
82 100  
128 53.1 41.8 62.6  
54 44.7 37.9 56.9



#32  
Benzoic acid  
Concen: 18.508 ng  
RT: 7.73 min Scan# 960  
Delta R.T. -0.01 min  
Lab File: BF114916.D  
Acq: 8 Jun 2019 3:11

Tgt Ion: 122 Resp: 211646  
Ion Ratio Lower Upper  
122 100  
105 116.0 98.7 138.7  
77 83.4 64.8 104.8





#37

2-Methylnaphthalene

Concen: 3.728 ng

RT: 8.65 min Scan# 1116

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

Instrument :

BNA\_F

ClientSampleId :

CHIMNEY-1

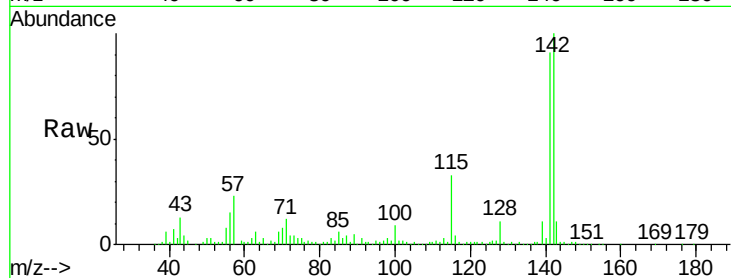
Tot Ion:142 Resp: 131943

Ion Ratio Lower Upper

142 100

141 90.8 71.6 107.4

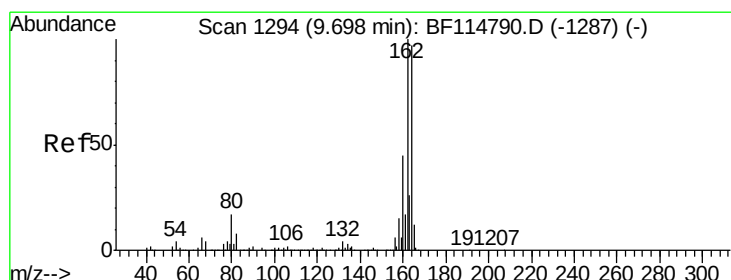
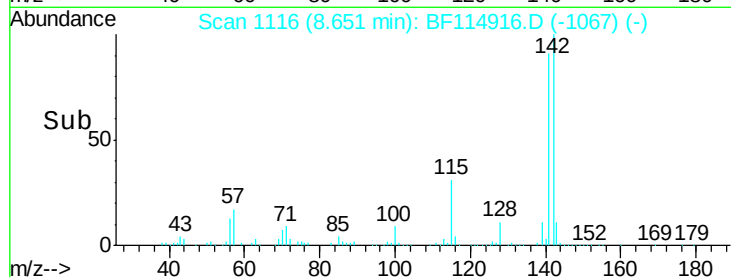
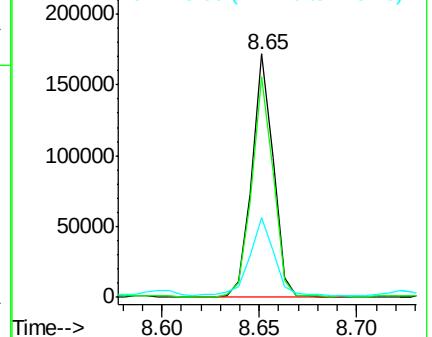
115 32.9 28.2 42.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.69 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

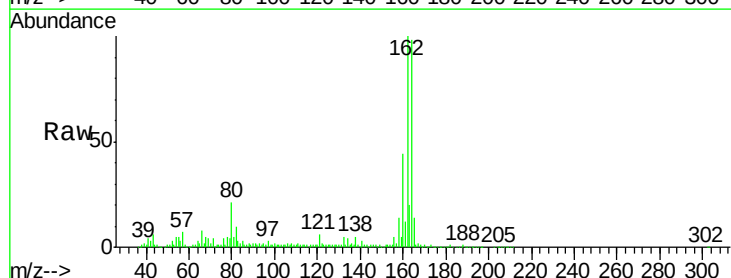
Tgt Ion:164 Resp: 506049

Ion Ratio Lower Upper

164 100

162 102.2 82.3 123.5

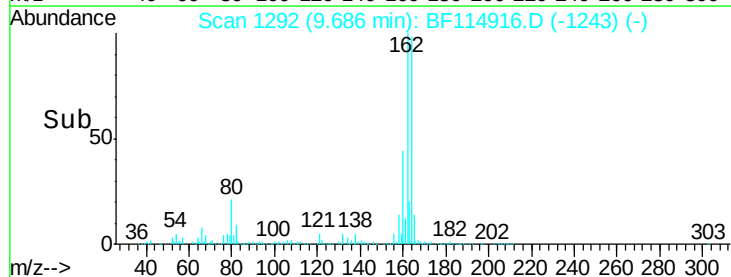
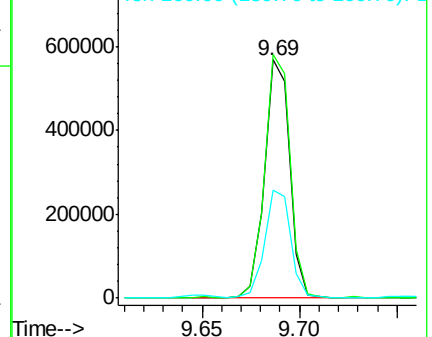
160 45.4 36.7 55.1

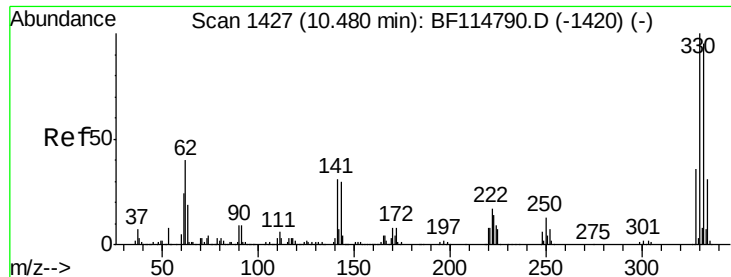


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 47.067 ng

RT: 10.47 min Scan# 1426

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

Instrument :

BNA\_F

ClientSampleId :

CHIMNEY-1

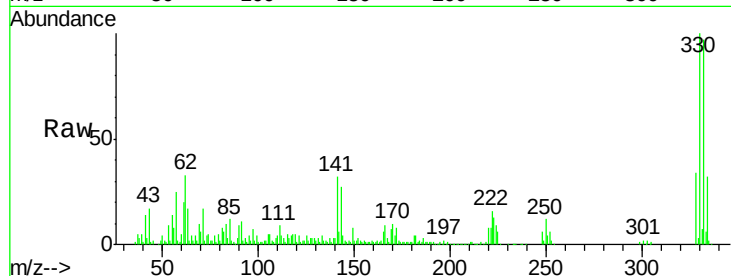
Tot Ion:330 Resp: 256678

Ion Ratio Lower Upper

330 100

332 97.2 77.3 115.9

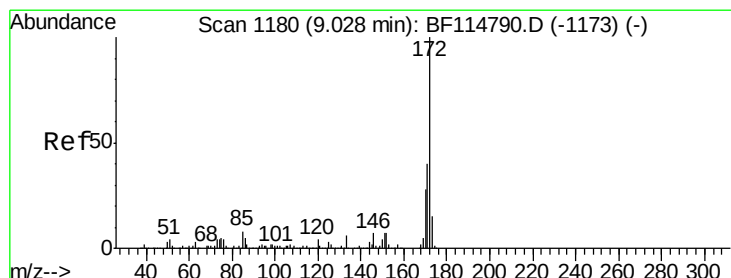
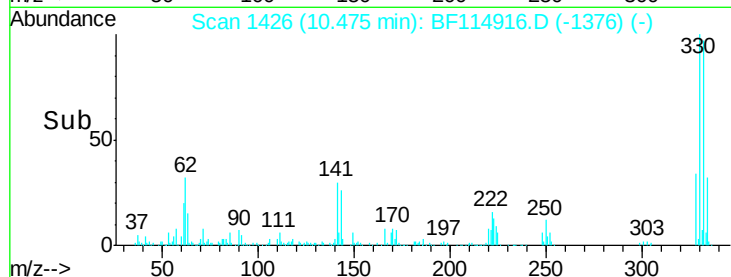
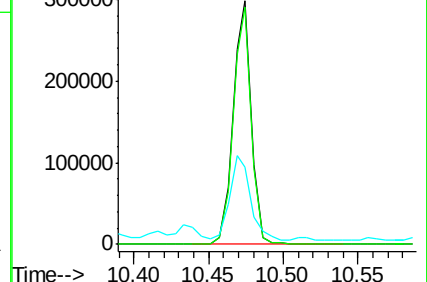
141 39.5 26.2 39.4#



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: 49.527 ng

RT: 9.02 min Scan# 1178

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

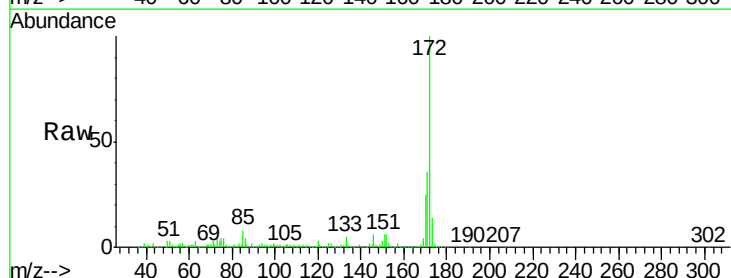
Tgt Ion:172 Resp: 1337926

Ion Ratio Lower Upper

172 100

171 35.9 32.3 48.5

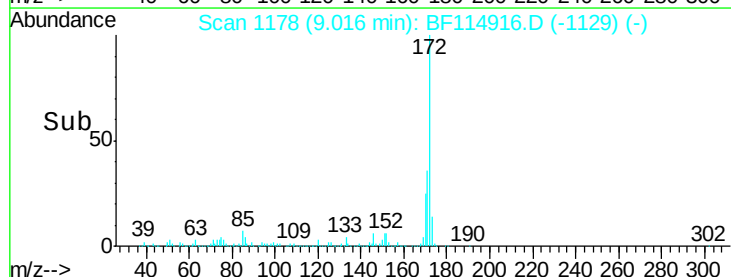
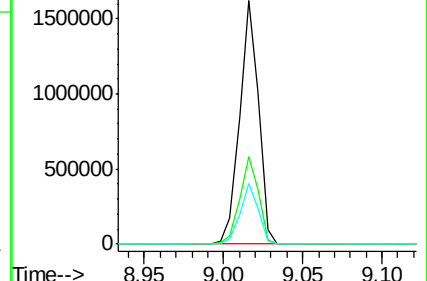
170 24.6 22.4 33.6

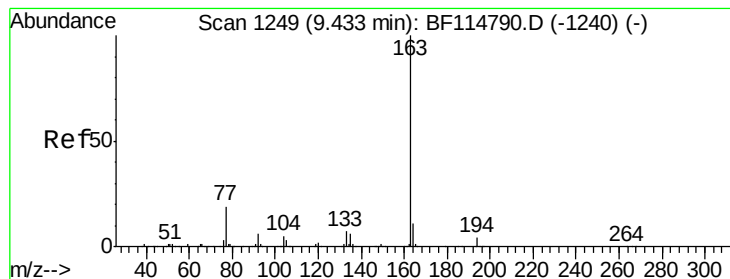


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 2.299 ng

RT: 9.41 min Scan# 1245

Delta R.T. -0.02 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

Instrument :

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ClientSampleId :

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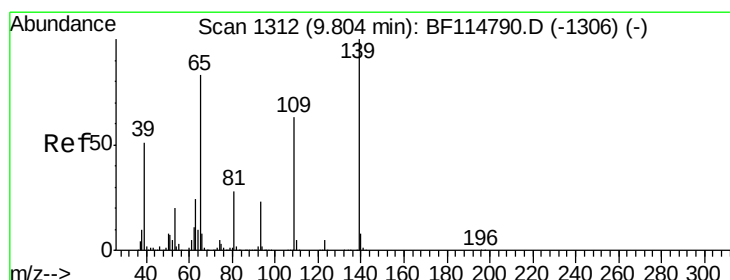
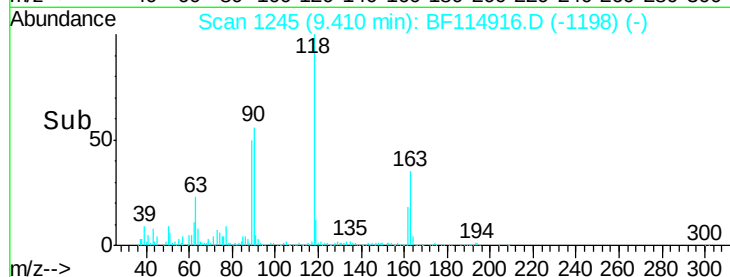
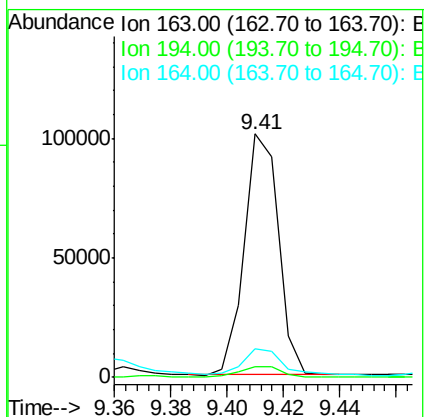
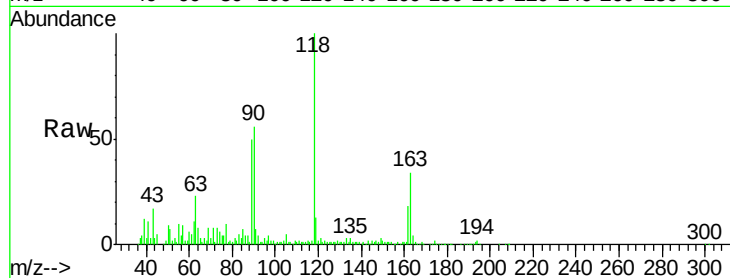
Tot Ion:163 Resp: 84976

Ion Ratio Lower Upper

163 100

194 4.4 3.4 5.2

164 11.8 8.6 13.0



#56

4-Nitrophenol

Concen: 13.284 ng

RT: 9.82 min Scan# 1314

Delta R.T. 0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

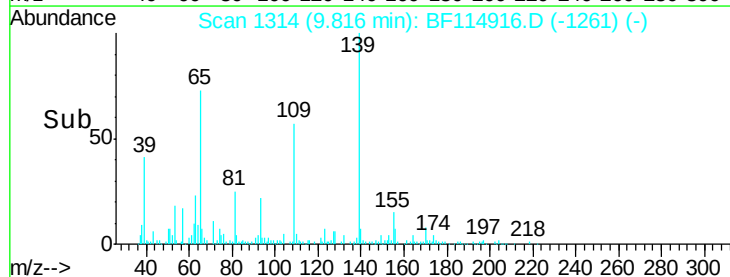
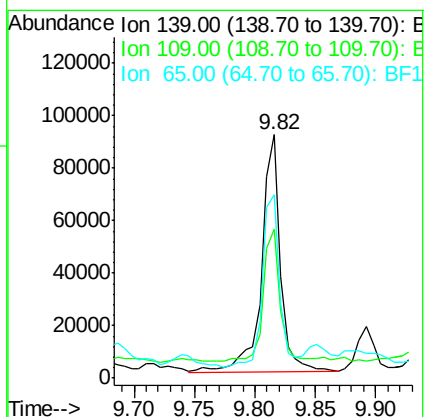
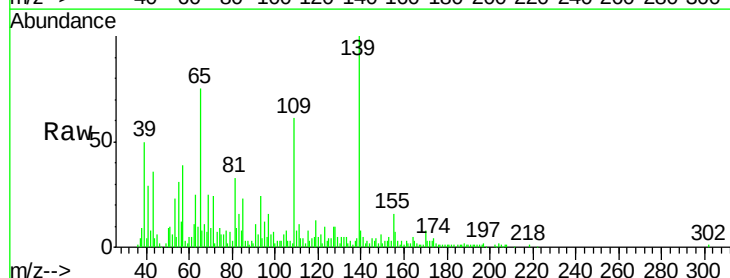
Tgt Ion:139 Resp: 98842

Ion Ratio Lower Upper

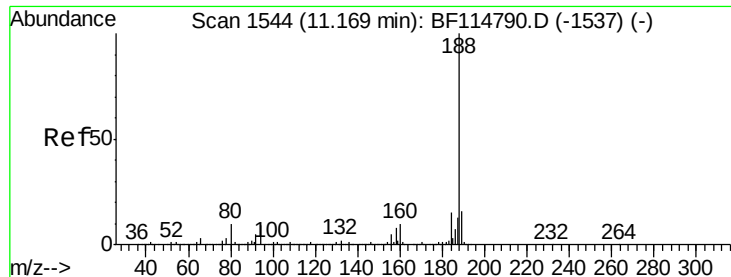
139 100

109 60.9 43.5 83.5

65 75.2 63.2 103.2







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.16 min Scan# 1543

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

Instrument :

BNA\_F

ClientSampleId :

CHIMNEY-1

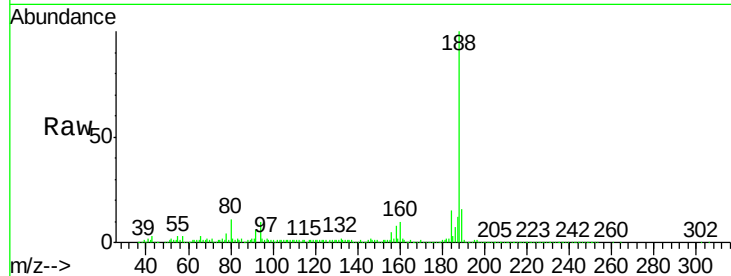
Tot Ion:188 Resp: 809721

Ion Ratio Lower Upper

188 100

94 9.9 7.6 11.4

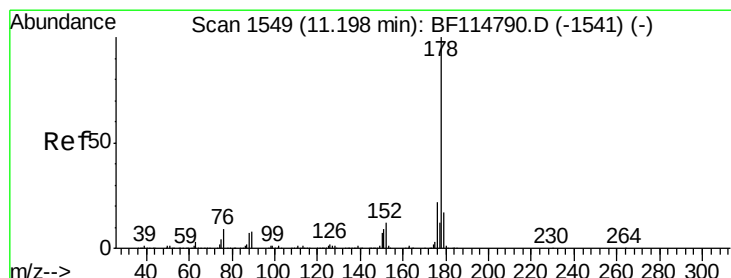
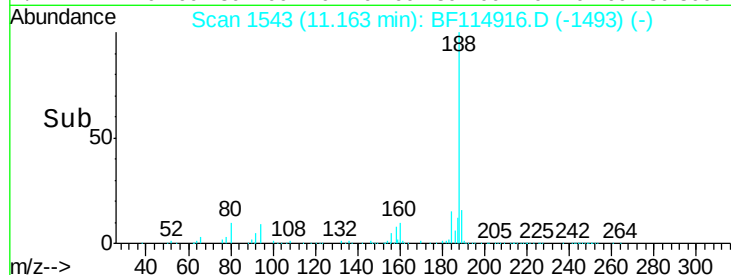
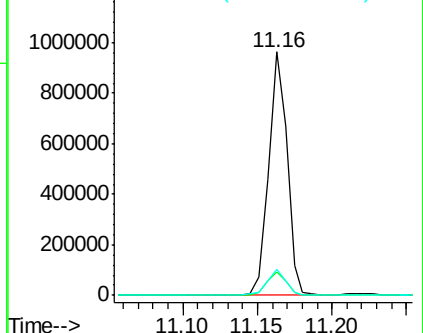
80 10.5 8.3 12.5



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: 7.599 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

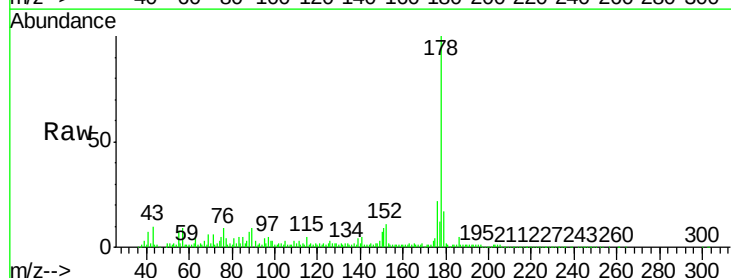
Tgt Ion:178 Resp: 293746

Ion Ratio Lower Upper

178 100

176 21.8 17.7 26.5

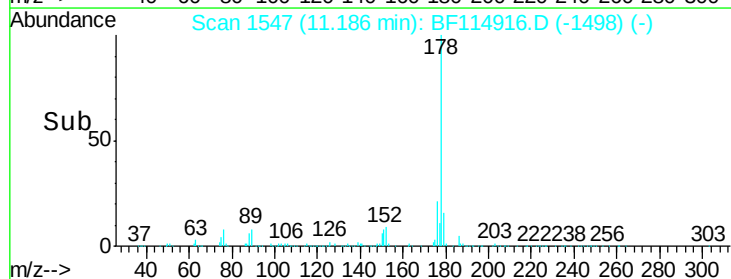
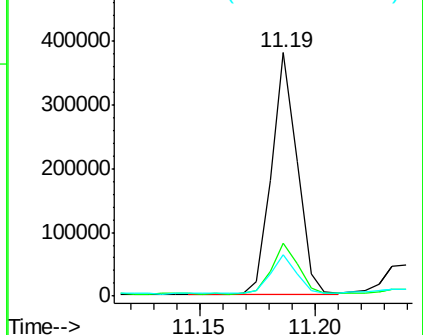
179 17.0 13.7 20.5

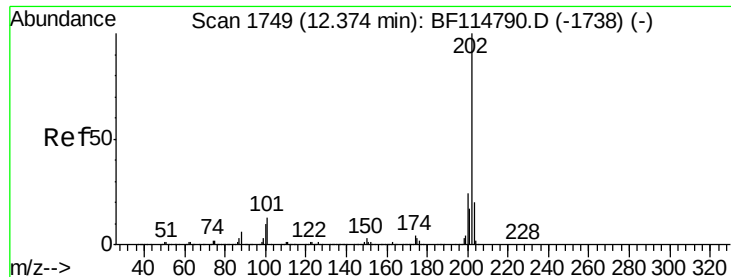


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 3.997 ng

RT: 12.37 min Scan# 1748

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

Instrument :

BNA\_F

ClientSampleId :

CHIMNEY-1

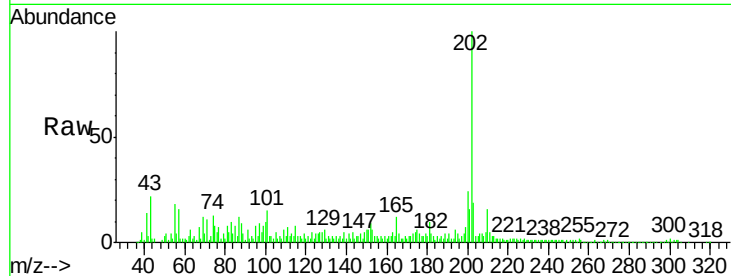
Tot Ion:202 Resp: 160829

Ion Ratio Lower Upper

202 100

101 15.2 0.0 32.8

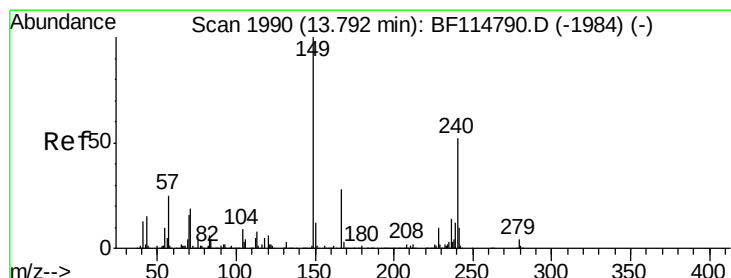
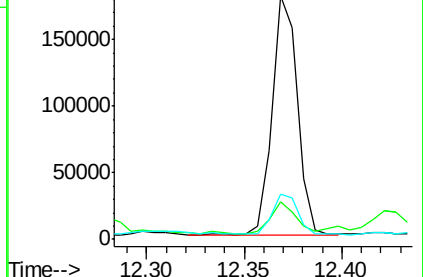
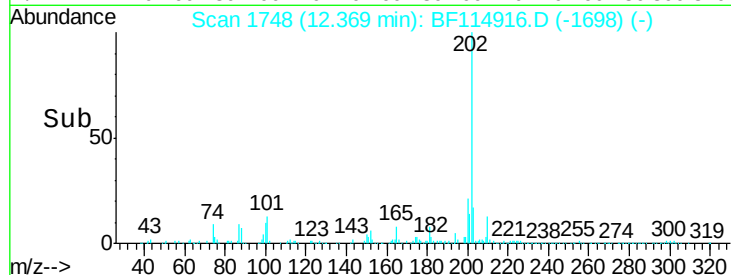
203 18.6 0.2 40.2



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: 13.79 min Scan# 1989

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

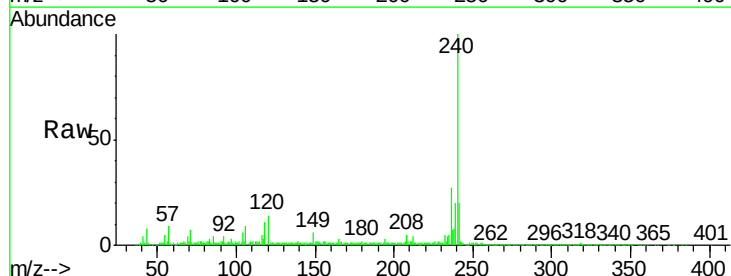
Tgt Ion:240 Resp: 588442

Ion Ratio Lower Upper

240 100

120 13.8 9.0 13.4#

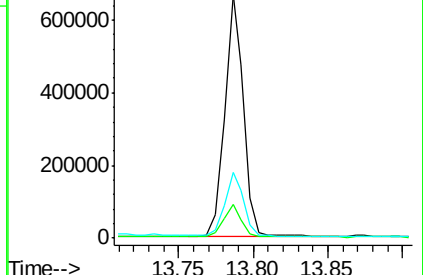
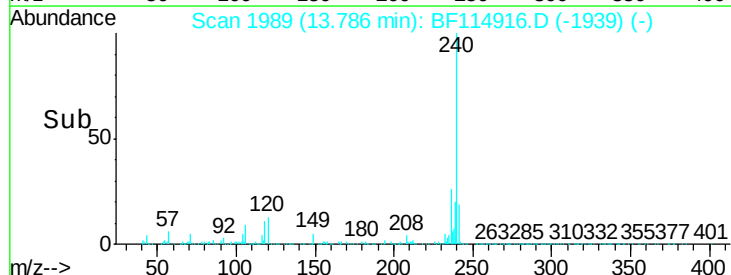
236 27.1 21.4 32.0

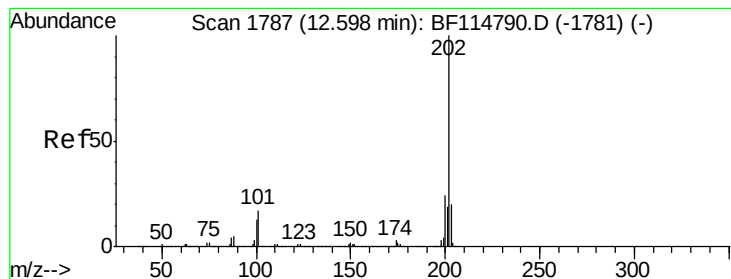


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 2.869 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.00 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

Instrument :

BNA\_F

ClientSampleId :

CHIMNEY-1

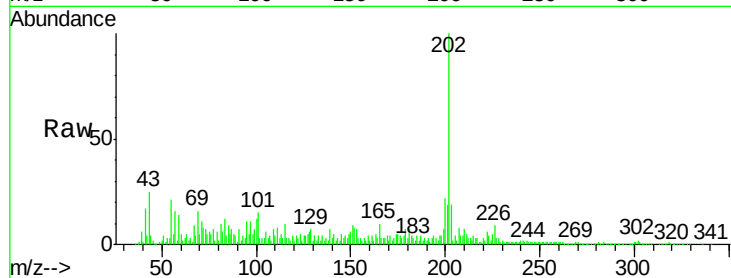
Tot Ion:202 Resp: 146466

Ion Ratio Lower Upper

202 100

200 22.5 19.2 28.8

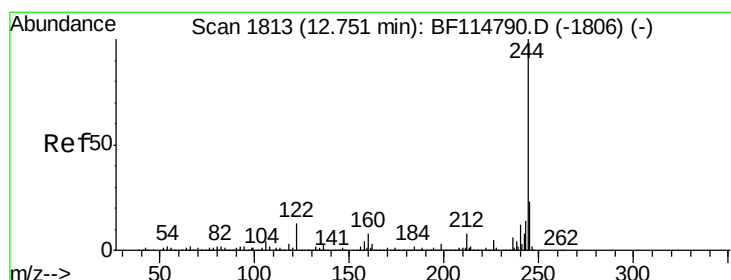
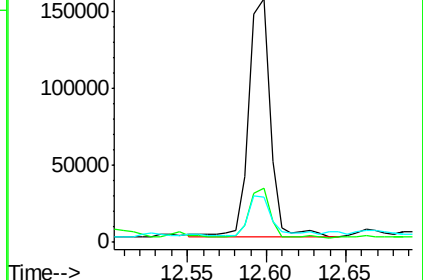
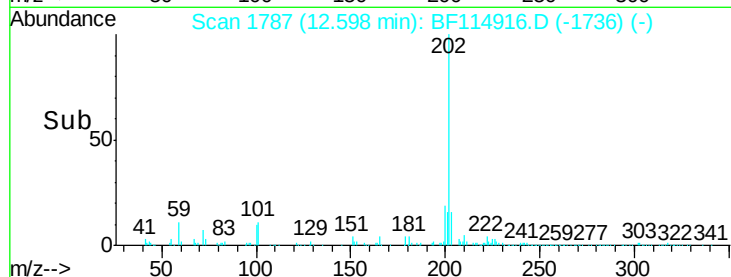
203 18.6 15.9 23.9



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: 35.763 ng

RT: 12.75 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

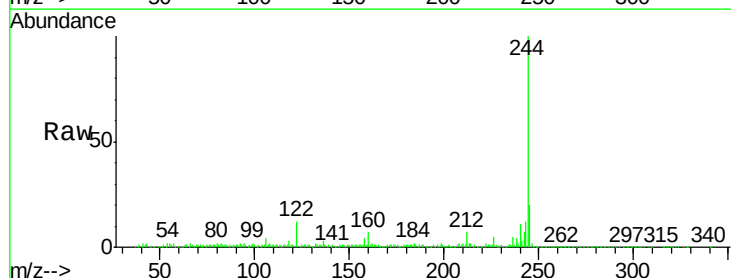
Tgt Ion:244 Resp: 1082123

Ion Ratio Lower Upper

244 100

212 6.9 6.5 9.7

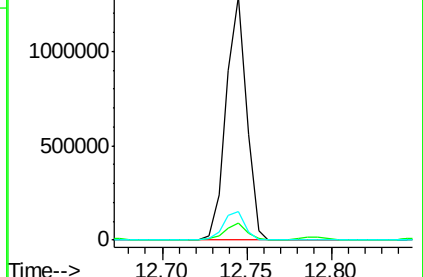
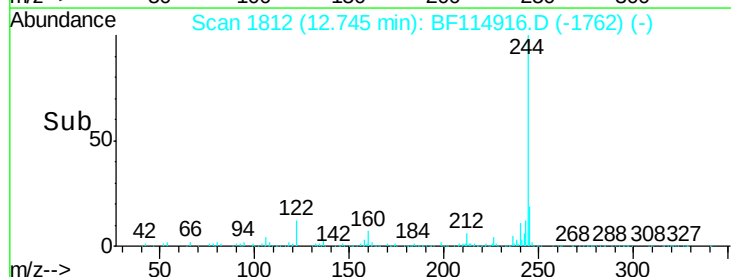
122 12.0 10.5 15.7

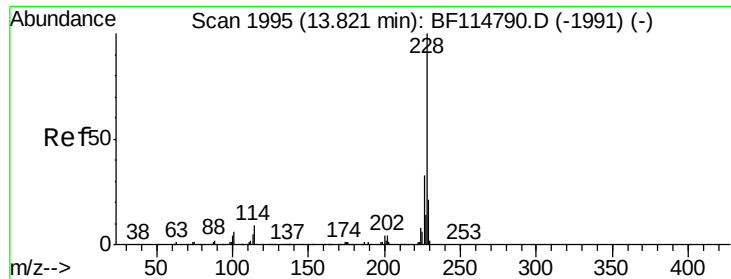


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

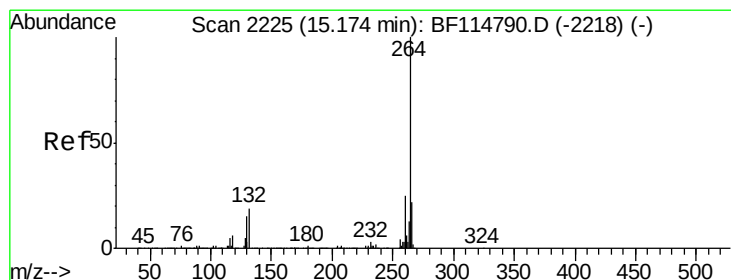
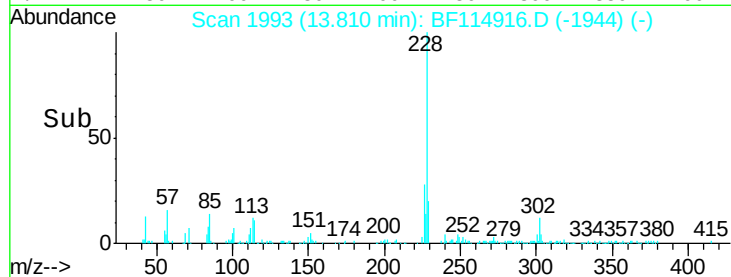
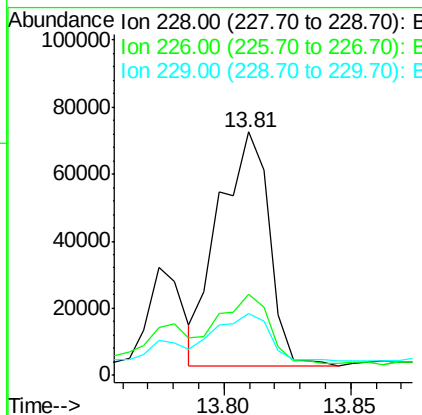
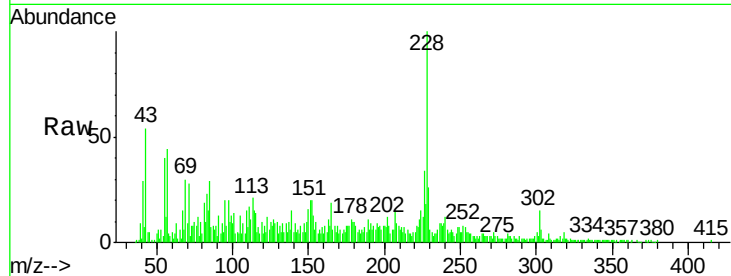




#83  
Chrysene  
Concen: 2.169 ng  
RT: 13.81 min Scan# 1993  
Delta R.T. -0.01 min  
Lab File: BF114916.D  
Acq: 8 Jun 2019 3:11

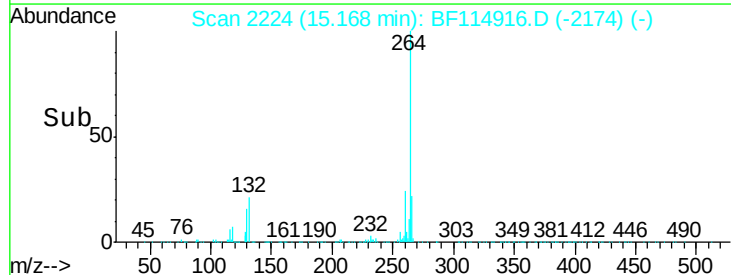
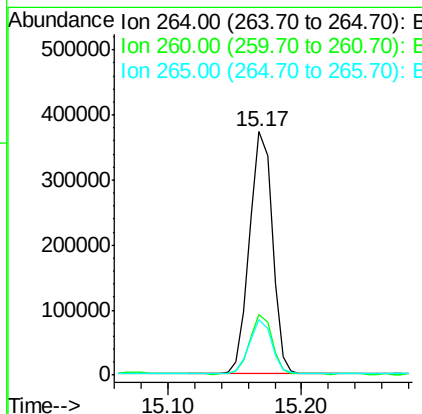
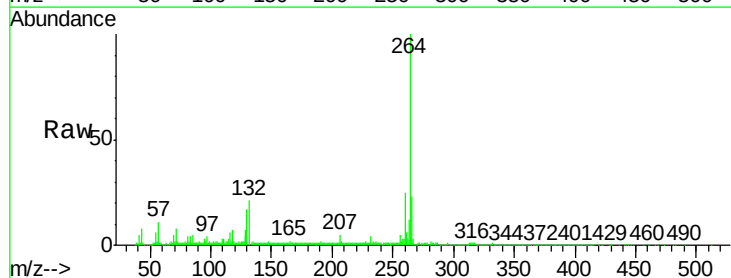
Instrument :  
BNA\_F  
ClientSampleId :  
CHIMNEY-1

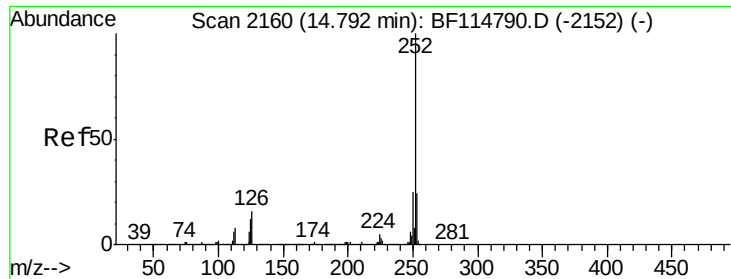
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.5  | 26.0  | 39.0  |
| 229     | 25.6  | 17.1  | 25.7  |



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.17 min Scan# 2224  
Delta R.T. -0.01 min  
Lab File: BF114916.D  
Acq: 8 Jun 2019 3:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 20.1  | 30.1  |
| 265     | 22.7  | 17.7  | 26.5  |





#88

Benzo(b)fluoranthene

Concen: 3.278 ng m

RT: 14.79 min Scan# 2159

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

Instrument :

BNA\_F

ClientSampleId :

CHIMNEY-1

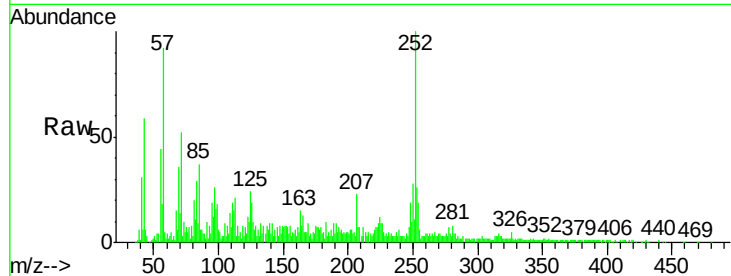
Tot Ion:252 Resp: 91557

Ion Ratio Lower Upper

252 100

253 26.1 19.0 28.6

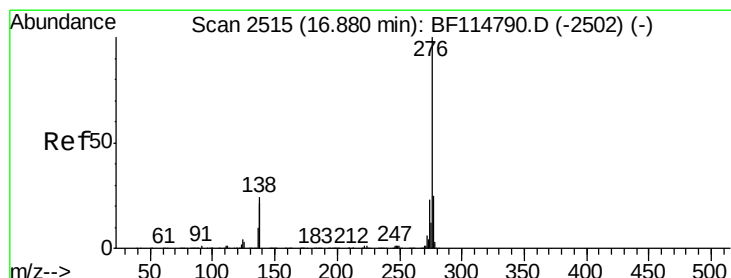
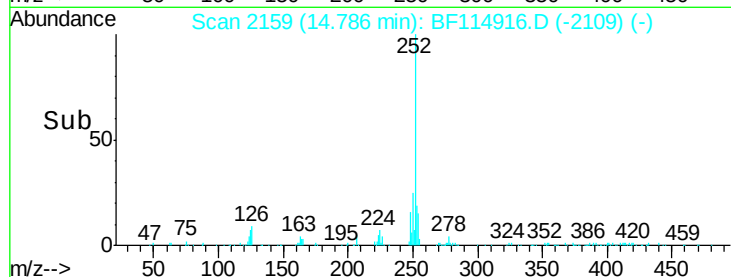
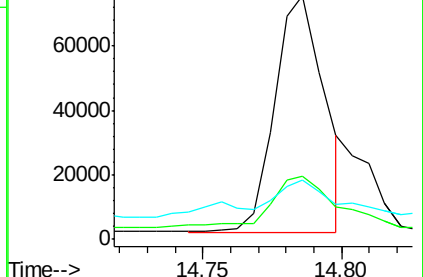
125 24.3 9.4 14.0#



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



#92

Benzo(g,h,i)perylene

Concen: 2.020 ng

RT: 16.87 min Scan# 2513

Delta R.T. -0.01 min

Lab File: BF114916.D

Acq: 8 Jun 2019 3:11

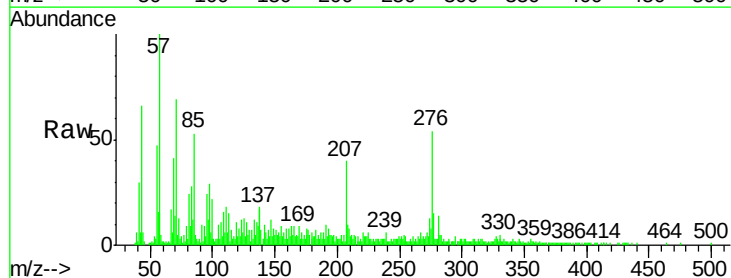
Tgt Ion:276 Resp: 46502

Ion Ratio Lower Upper

276 100

277 27.7 19.8 29.6

138 30.8 19.4 29.2#



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

