

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042619\  
 Data File : BF114012.D  
 Acq On : 26 Apr 2019 16:23  
 Operator : JU/SJ  
 Sample : K2571-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTON

Quant Time: Apr 26 22:59:39 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF042219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 23 03:32:35 2019  
 Response via : Initial Calibration

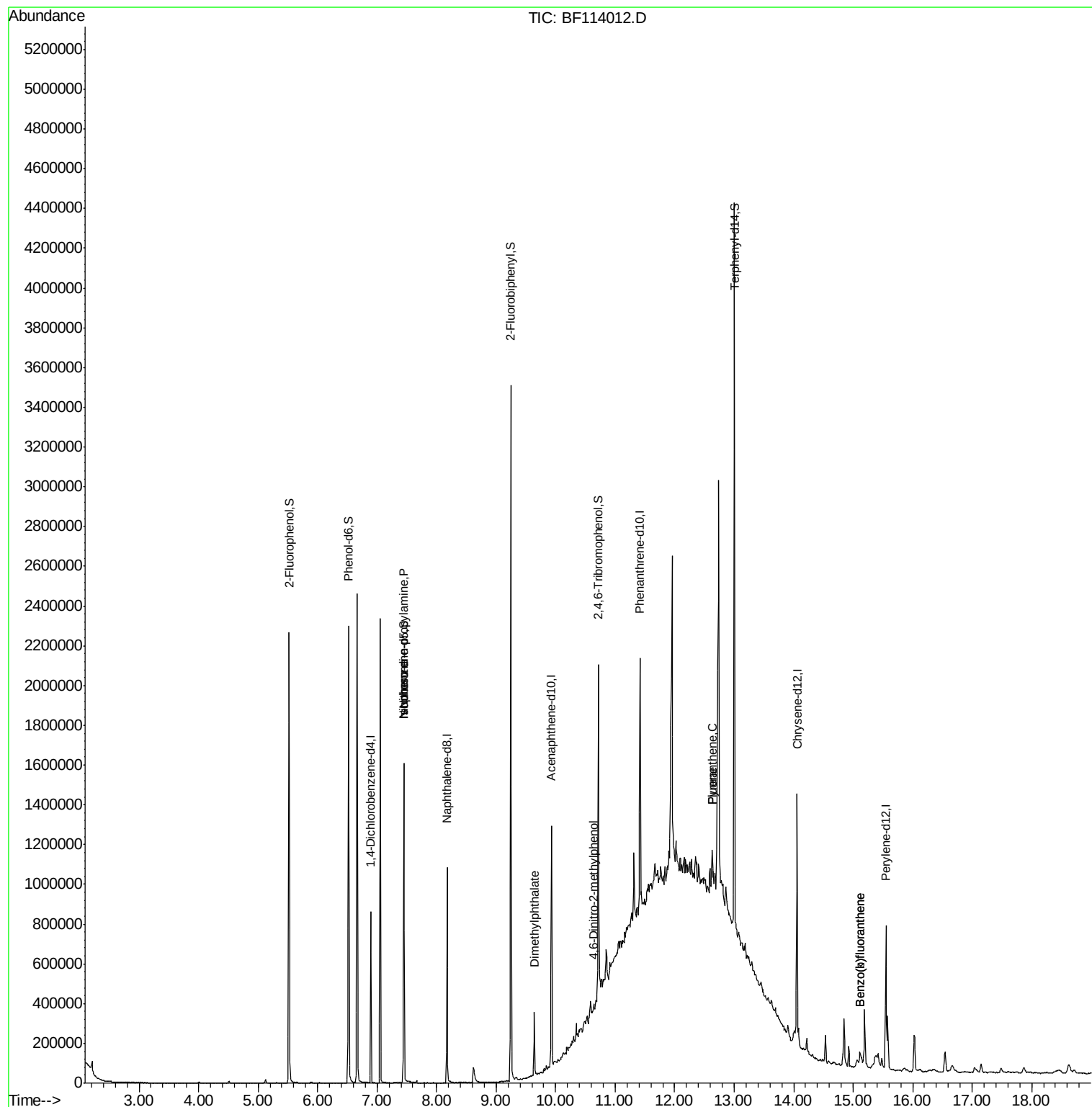
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 124583   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.17  | 136  | 479907   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.93  | 164  | 258326   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.42 | 188  | 506121   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 14.06 | 240  | 407477   | 20.00     | ng    | -0.01    |
| 87) Perylene-d12               | 15.55 | 264  | 361876   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.52  | 112  | 678078   | 93.09     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.52  | 99   | 891149   | 97.51     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 534475   | 68.76     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.72 | 330  | 274337   | 87.18     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.25  | 172  | 1124651  | 68.09     | ng    | 0.00     |
| 79) Terphenyl-d14              | 13.00 | 244  | 1355859  | 68.22     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.66  | 77   | 16666    | Below Cal |       | 82       |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 71176    | 12.027 ng | #     | 77       |
| 25) Isophorone                 | 7.45  | 82   | 534468   | 33.606 ng | #     | 65       |
| 50) Dimethylphthalate          | 9.64  | 163  | 126537   | 6.773 ng  |       | 99       |
| 65) 4,6-Dinitro-2-methylphenol | 10.64 | 198  | 127      | 7.355 ng  | #     | 1        |
| 75) Fluoranthene               | 12.63 | 202  | 66552    | 2.398 ng  |       | 94       |
| 78) Pyrene                     | 12.63 | 202  | 66552    | 2.336 ng  |       | 97       |
| 88) Benzo(b)fluoranthene       | 15.12 | 252  | 54252    | 2.370 ng  | #     | 97       |
| 89) Benzo(k)fluoranthene       | 15.12 | 252  | 54252    | 2.755 ng  |       | 98       |

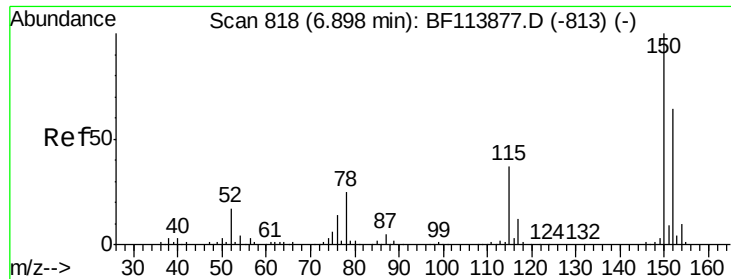
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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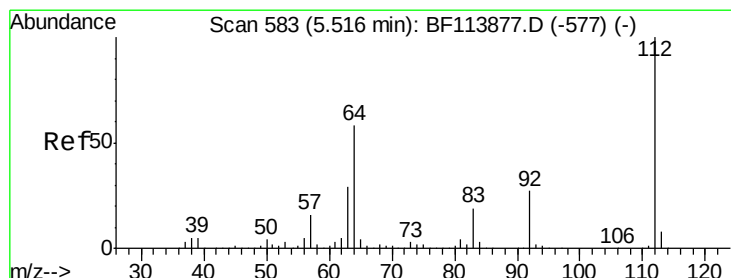
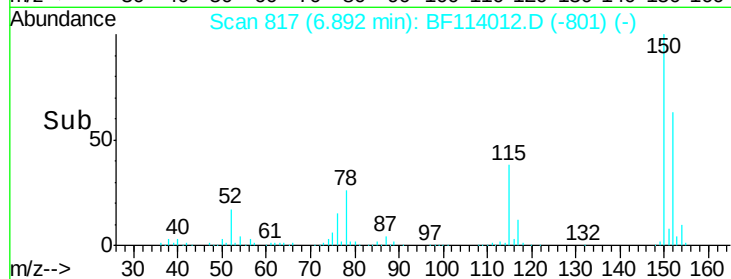
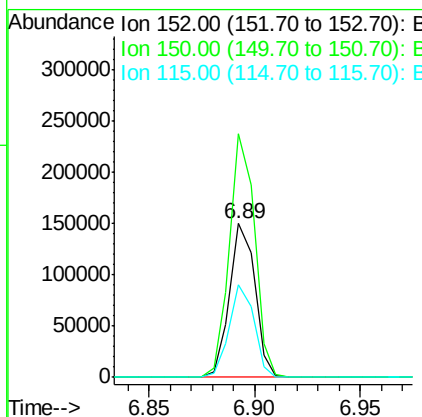
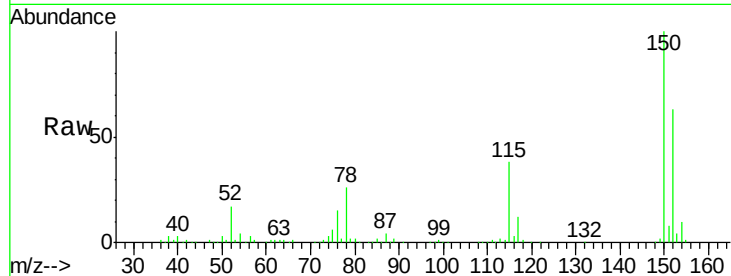


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.89 min Scan# 817  
 Delta R.T. -0.01 min  
 Lab File: BF114012.D  
 Acq: 26 Apr 2019 16:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTON

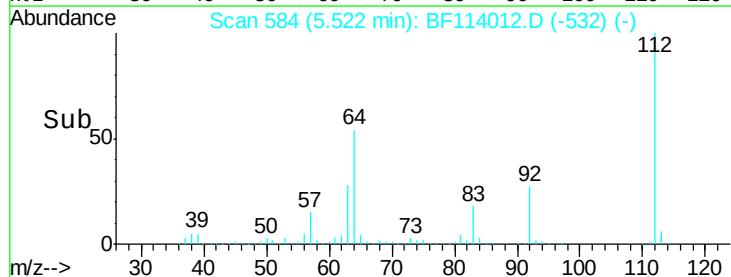
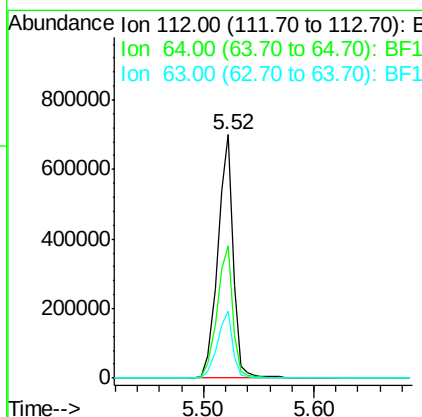
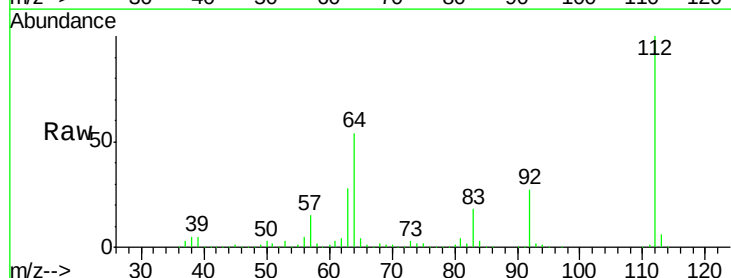
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.2 | 125.9 | 188.9 |
| 115     | 60.2  | 45.9  | 68.9  |

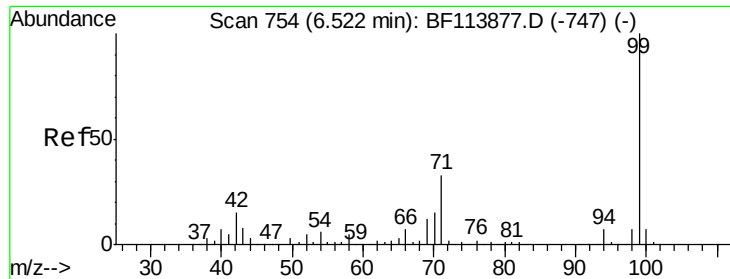


#5

2-Fluorophenol  
 Concen: 93.091 ng  
 RT: 5.52 min Scan# 584  
 Delta R.T. 0.01 min  
 Lab File: BF114012.D  
 Acq: 26 Apr 2019 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.5  | 46.6  | 69.8  |
| 63      | 27.7  | 23.1  | 34.7  |





#7

Phenol-d6

Concen: 97.514 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.00 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTON

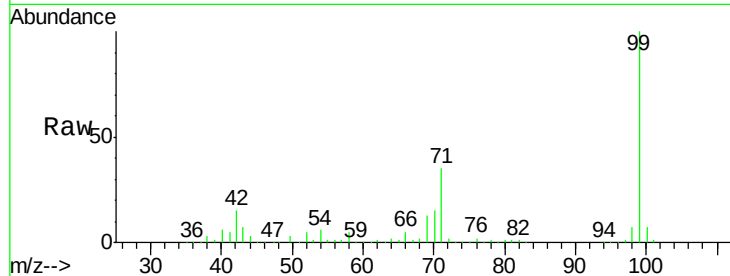
Tot Ion: 99 Resp: 891149

Ion Ratio Lower Upper

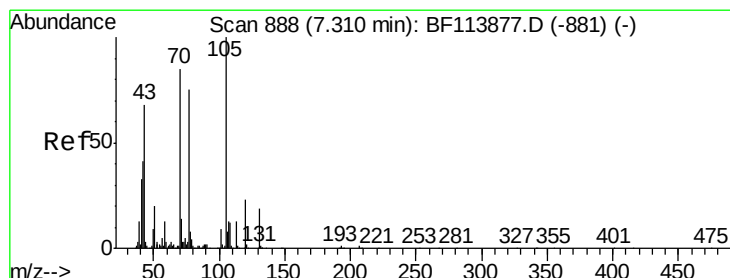
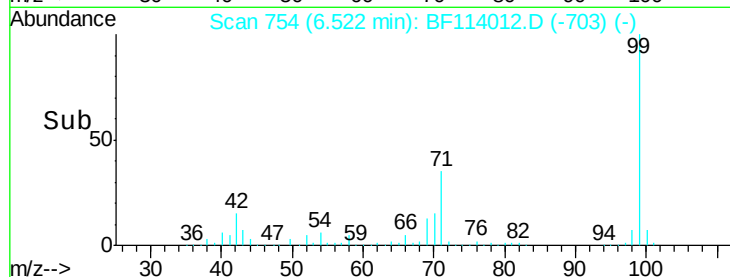
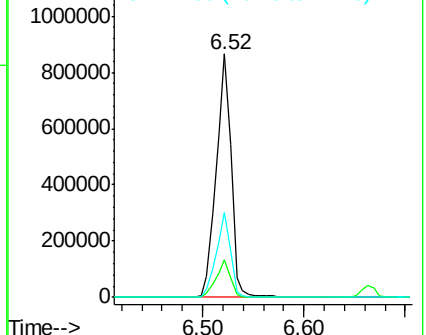
99 100

42 15.2 12.5 18.7

71 34.8 26.9 40.3



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 12.027 ng

RT: 7.45 min Scan# 912

Delta R.T. 0.14 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

Tgt Ion: 70 Resp: 71176

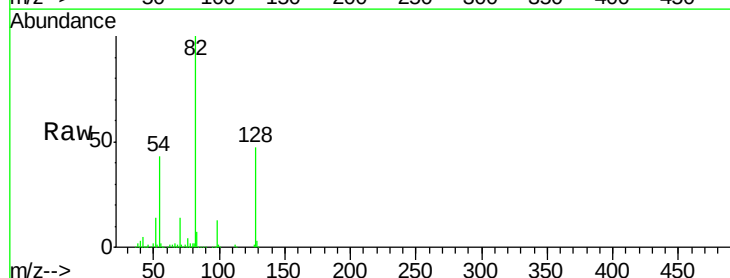
Ion Ratio Lower Upper

70 100

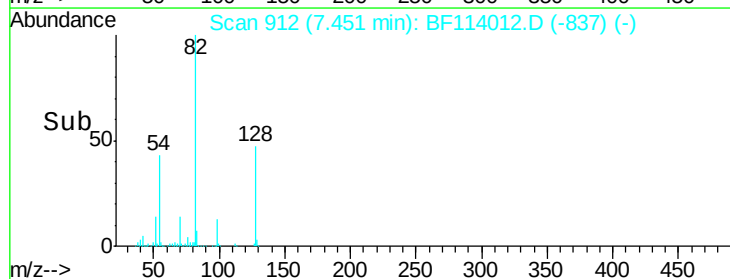
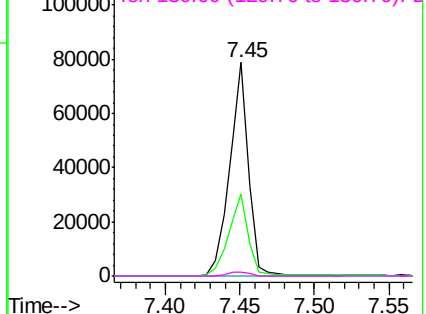
42 38.5 37.3 55.9

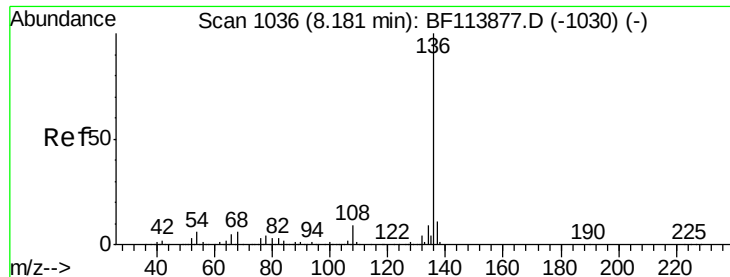
101 0.0 7.8 11.8#

130 2.1 18.2 27.2#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1

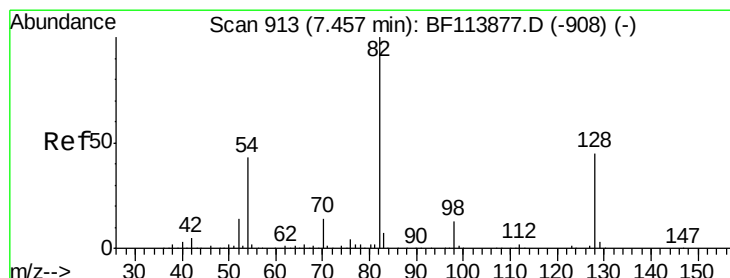
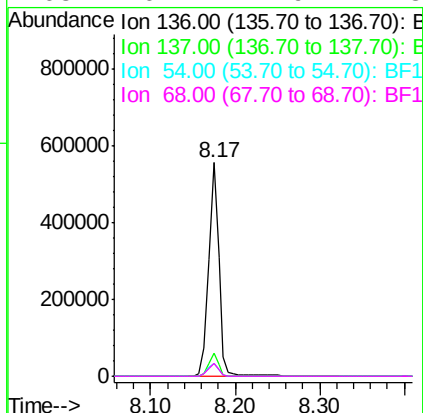
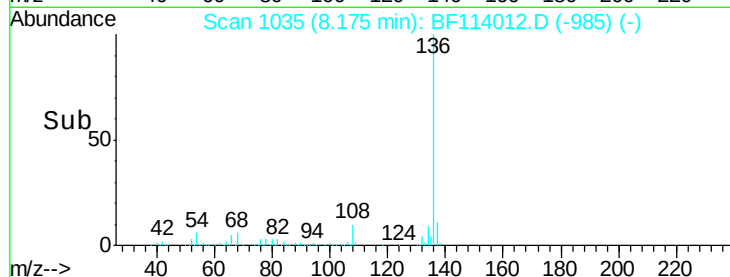
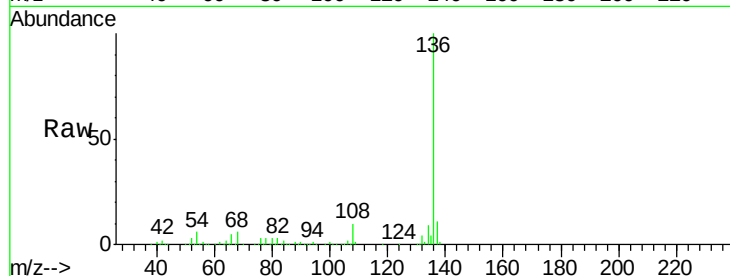




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1035  
Delta R.T. -0.01 min  
Lab File: BF114012.D  
Acq: 26 Apr 2019 16:23

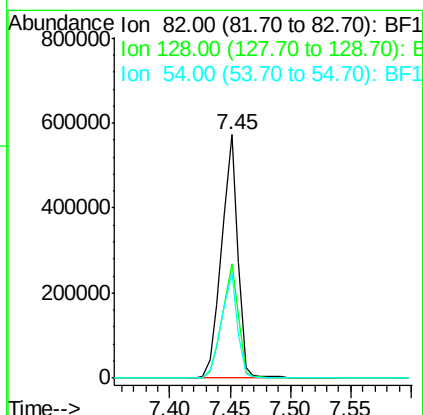
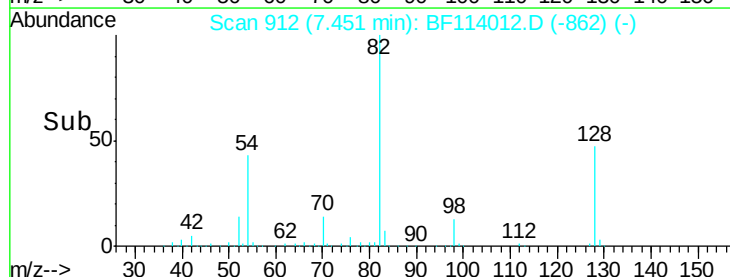
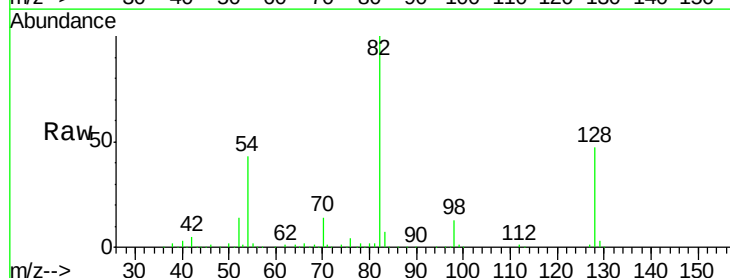
Instrument :  
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ClientSampleId :  
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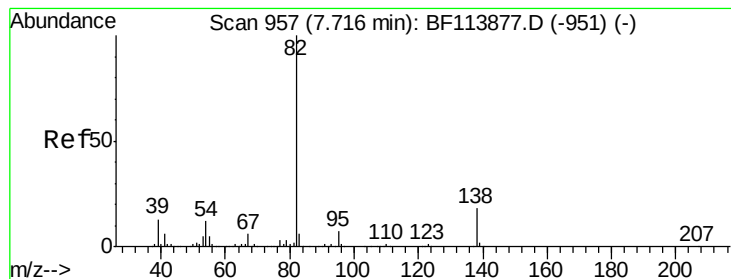
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 479907 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 10.8    | 8.6   | 12.8   |
| 54 6.3      | 5.0   | 7.6    |
| 68 6.1      | 4.9   | 7.3    |



#23  
Nitrobenzene-d5  
Concen: 68.765 ng  
RT: 7.45 min Scan# 912  
Delta R.T. -0.01 min  
Lab File: BF114012.D  
Acq: 26 Apr 2019 16:23

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 534475 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 46.9    | 36.8 55.2    |
| 54 43.2     | 33.8 50.6    |





#25

Isophorone

Concen: 33.606 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.26 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTON

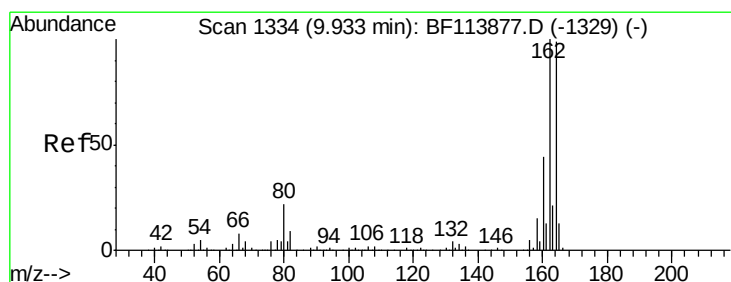
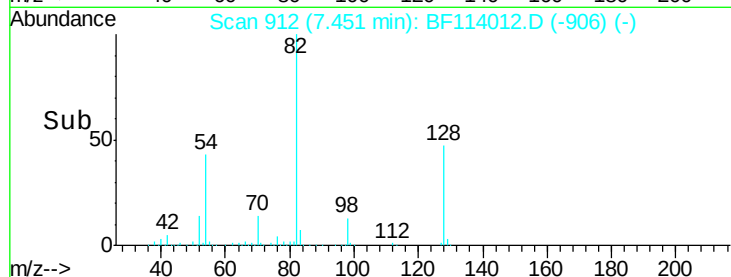
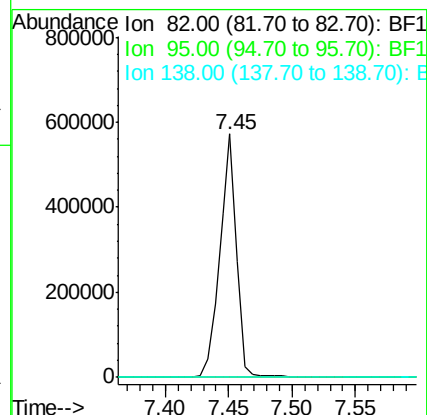
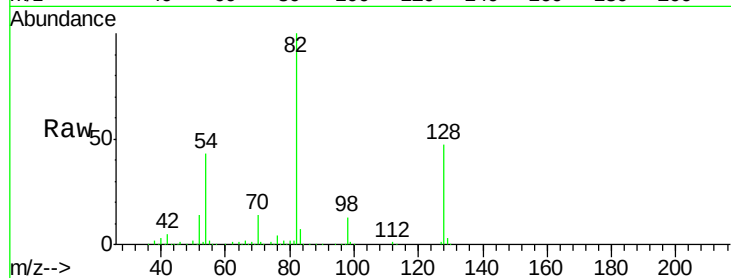
Tot Ion: 82 Resp: 534468

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

138 0.0 14.6 22.0#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

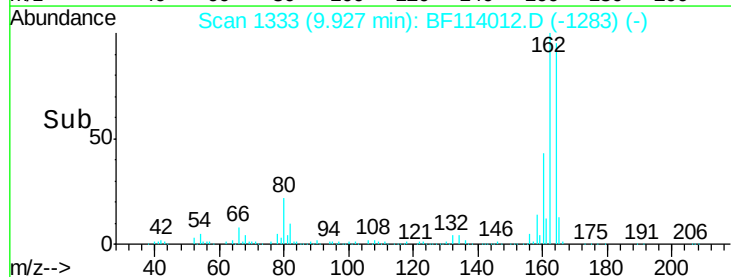
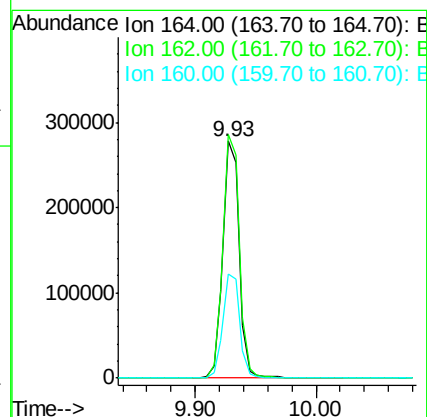
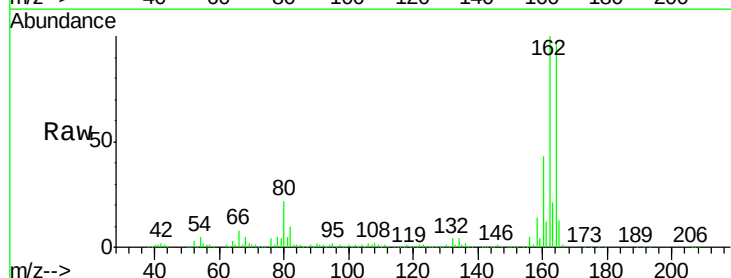
Tgt Ion: 164 Resp: 258326

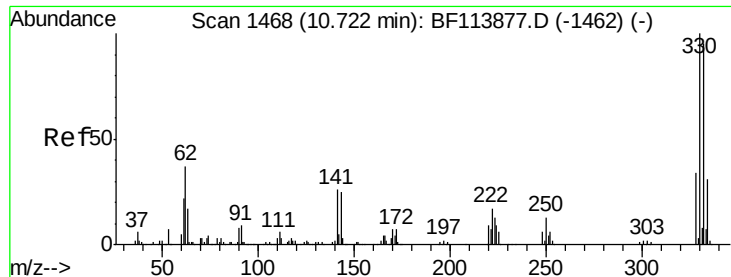
Ion Ratio Lower Upper

164 100

162 102.7 81.1 121.7

160 43.9 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 87.176 ng

RT: 10.72 min Scan# 1468

Delta R.T. -0.00 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTON

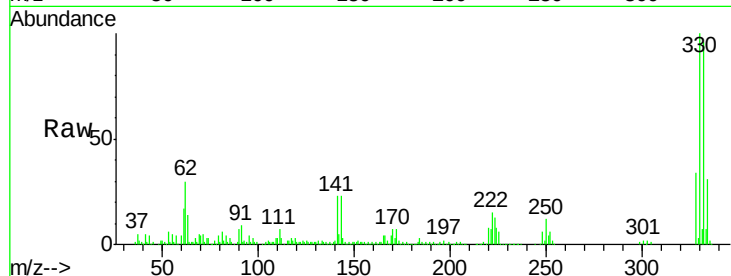
Tot Ion:330 Resp: 274337

Ion Ratio Lower Upper

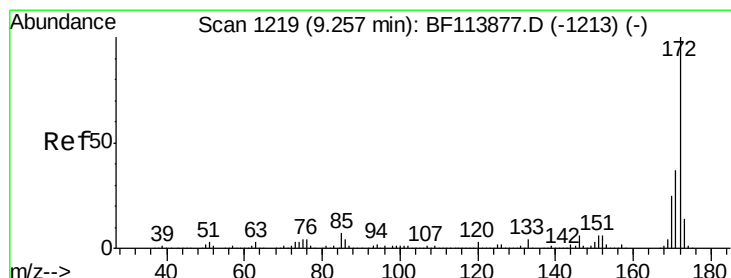
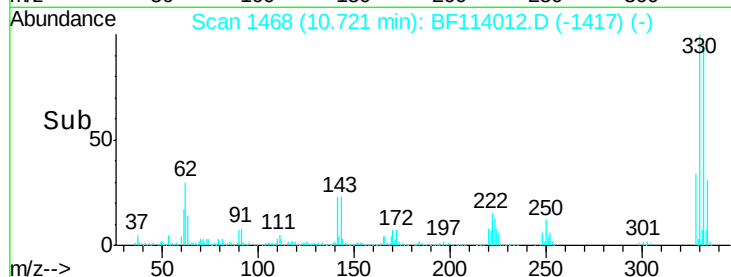
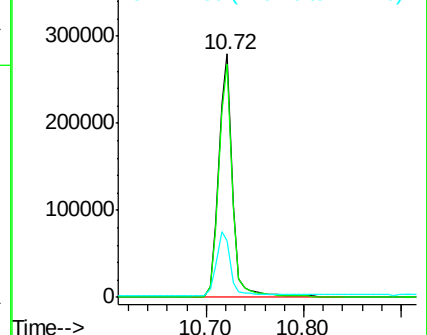
330 100

332 97.3 77.5 116.3

141 29.0 22.2 33.2



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: 68.092 ng

RT: 9.25 min Scan# 1218

Delta R.T. -0.01 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

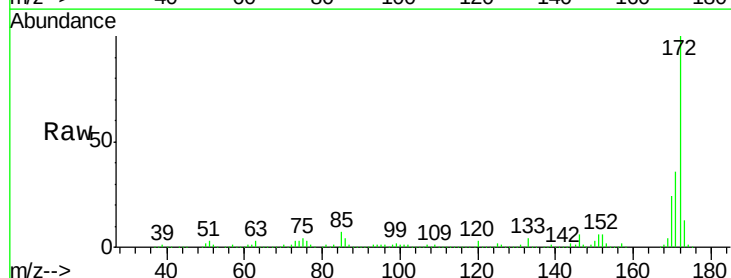
Tgt Ion:172 Resp: 1124651

Ion Ratio Lower Upper

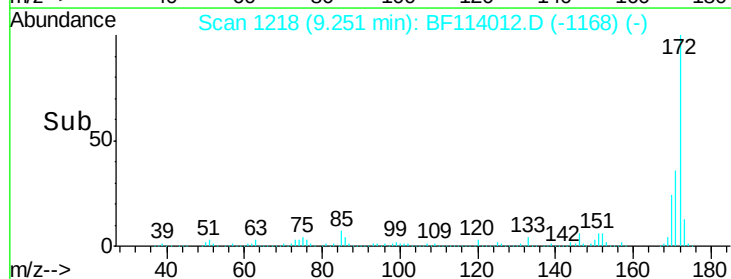
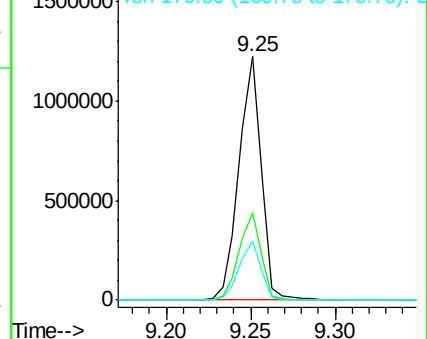
172 100

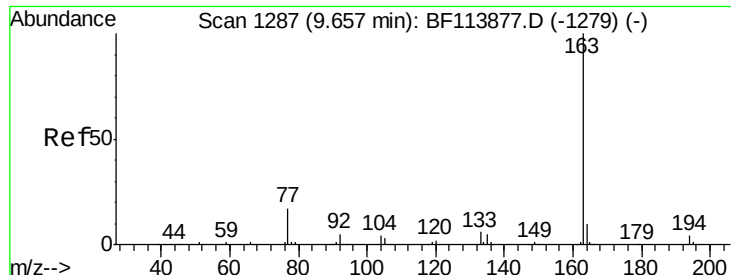
171 36.0 29.4 44.0

170 24.2 19.9 29.9



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: 6.773 ng

RT: 9.64 min Scan# 1284

Delta R.T. -0.02 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

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BNA\_F

ClientSampleId :

114-PENNINGTON

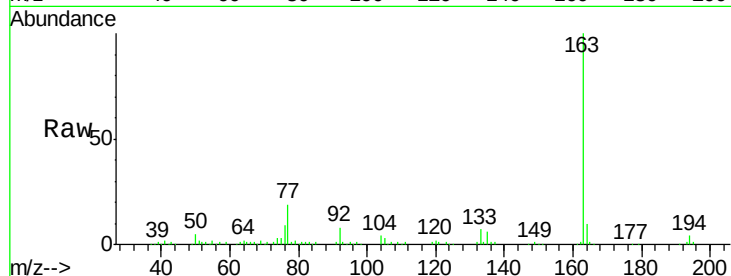
Tot Ion:163 Resp: 126537

Ion Ratio Lower Upper

163 100

194 4.3 3.4 5.2

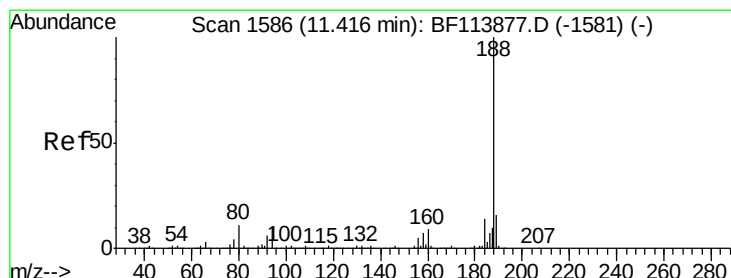
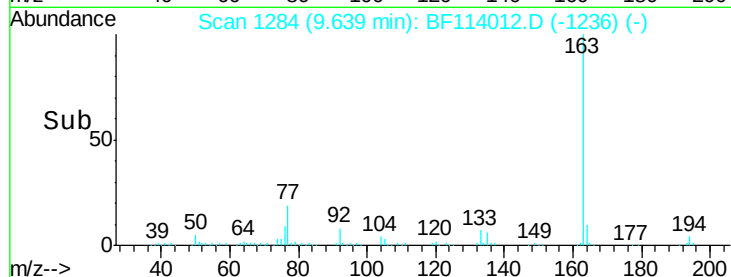
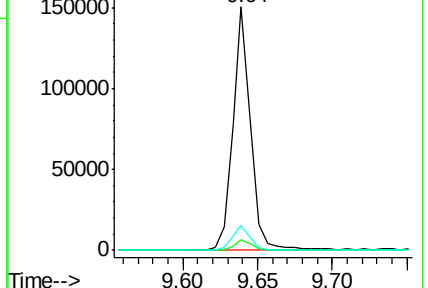
164 10.0 8.5 12.7



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.42 min Scan# 1586

Delta R.T. -0.00 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

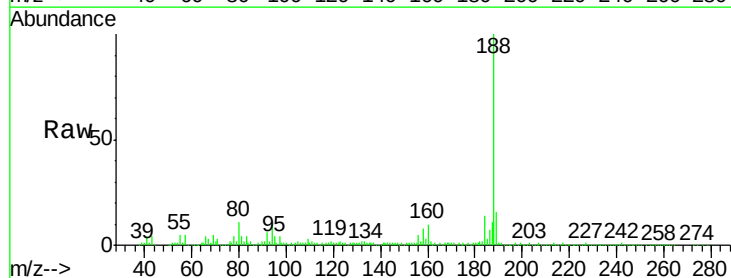
Tgt Ion:188 Resp: 506121

Ion Ratio Lower Upper

188 100

94 10.2 8.2 12.4

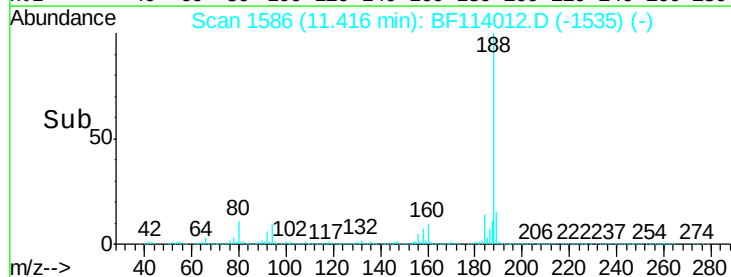
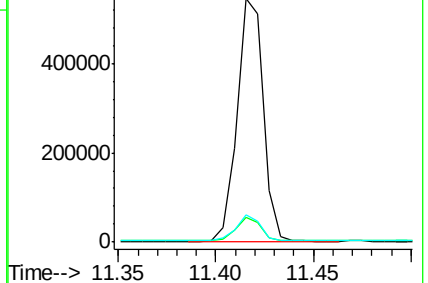
80 11.2 9.0 13.6



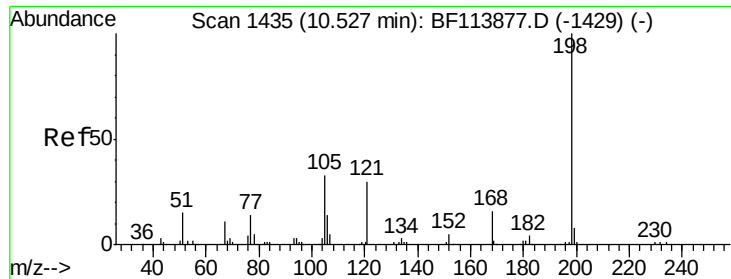
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



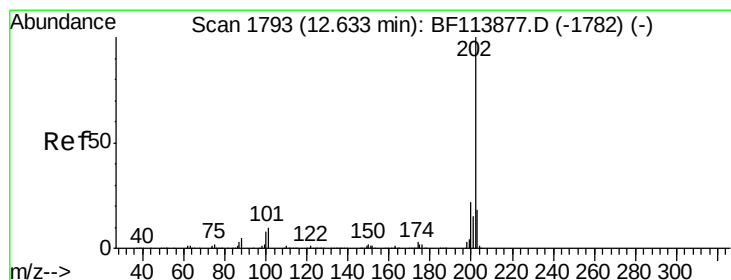
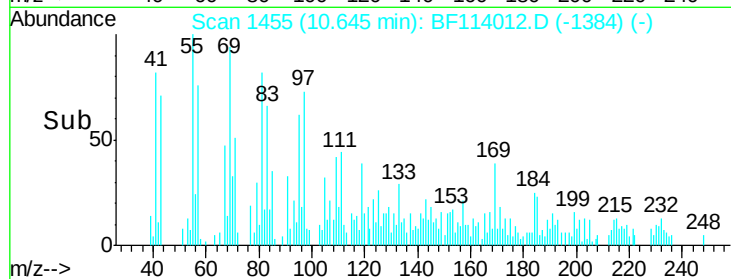
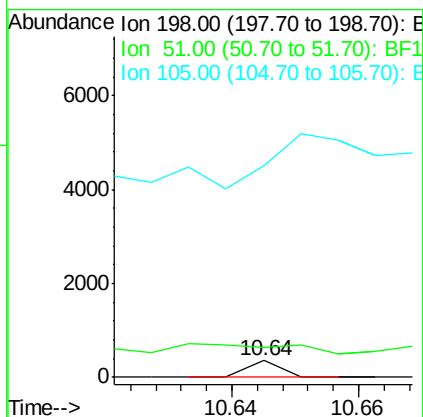
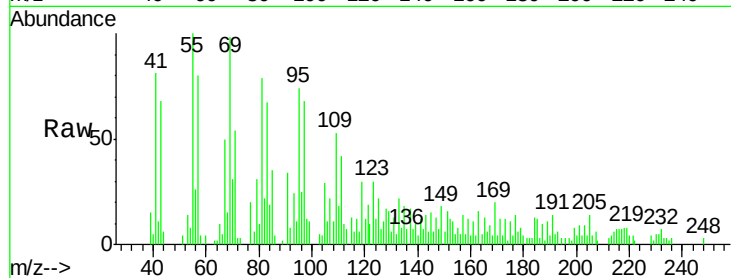




#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.355 ng  
RT: 10.64 min Scan# 1455  
Delta R.T. 0.12 min  
Lab File: BF114012.D  
Acq: 26 Apr 2019 16:23

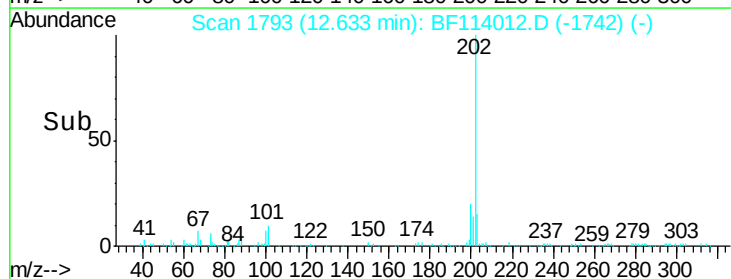
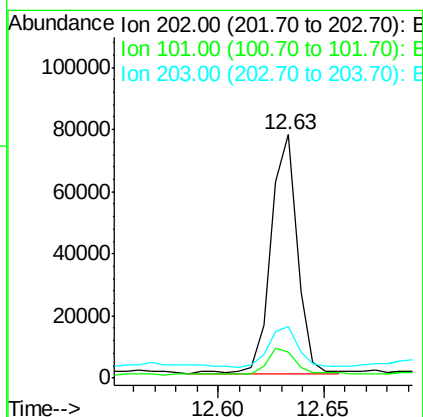
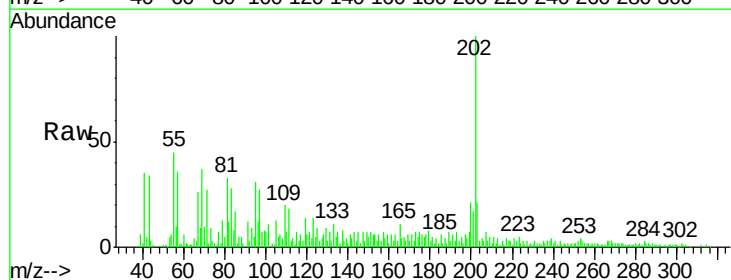
Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTON

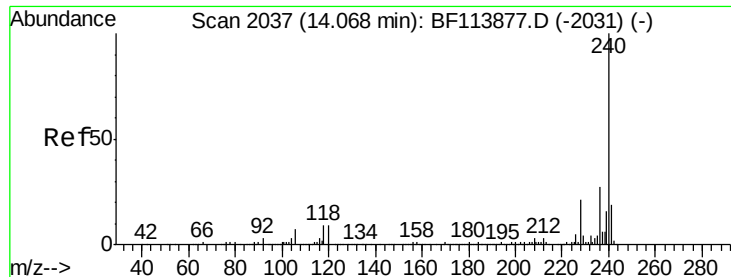
Tot Ion:198 Resp: 127  
Ion Ratio Lower Upper  
198 100  
51 177.6 11.1 51.1#  
105 1246.0 20.7 60.7#



#75  
Fluoranthene  
Concen: 2.398 ng  
RT: 12.63 min Scan# 1793  
Delta R.T. 0.00 min  
Lab File: BF114012.D  
Acq: 26 Apr 2019 16:23

Tgt Ion:202 Resp: 66552  
Ion Ratio Lower Upper  
202 100  
101 10.5 0.0 32.9  
203 21.1 0.0 38.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTON

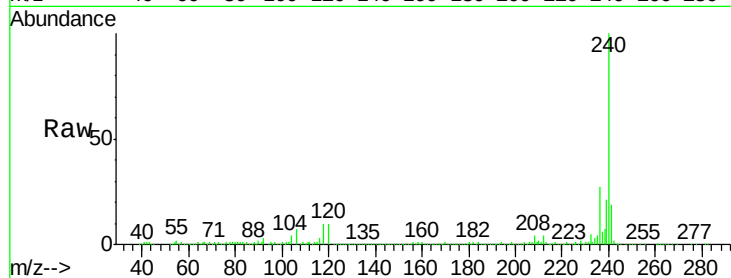
Tot Ion:240 Resp: 407477

Ion Ratio Lower Upper

240 100

120 10.3 9.3 13.9

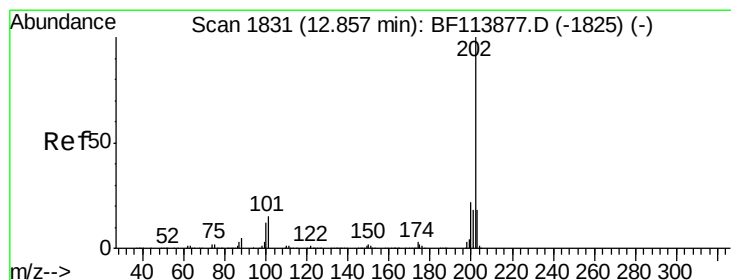
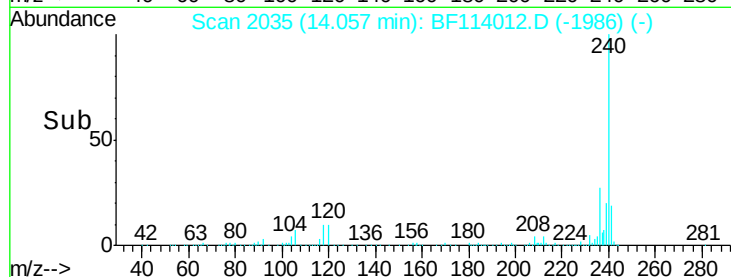
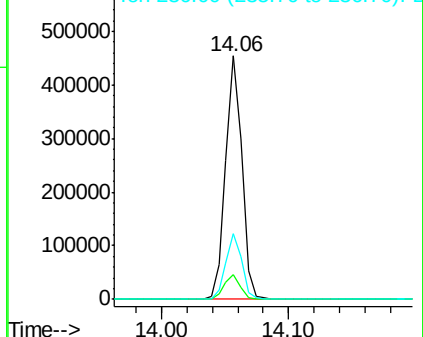
236 26.8 21.2 31.8



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: 2.336 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.22 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

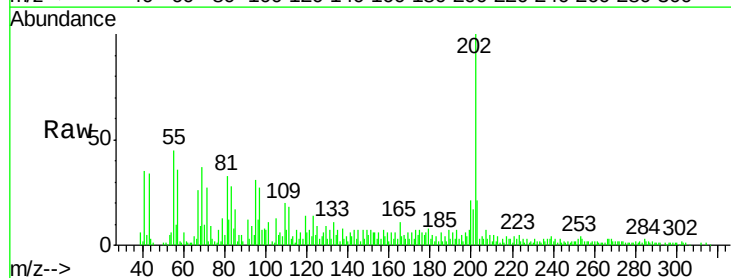
Tgt Ion:202 Resp: 66552

Ion Ratio Lower Upper

202 100

200 21.2 17.7 26.5

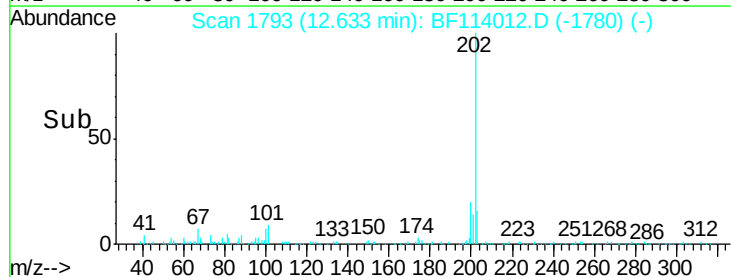
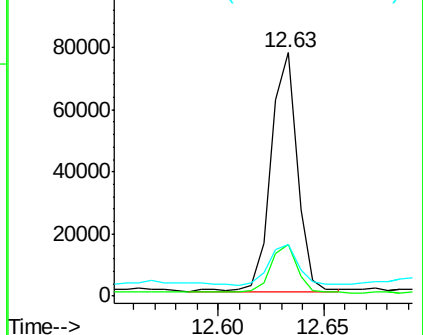
203 21.1 15.0 22.6

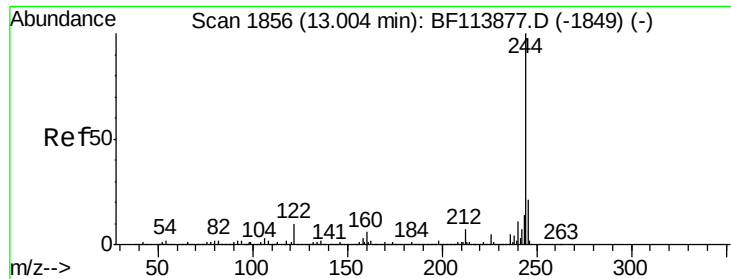


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 68.217 ng

RT: 13.00 min Scan# 1856

Delta R.T. -0.00 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

Instrument :

BNA\_F

ClientSampleId :

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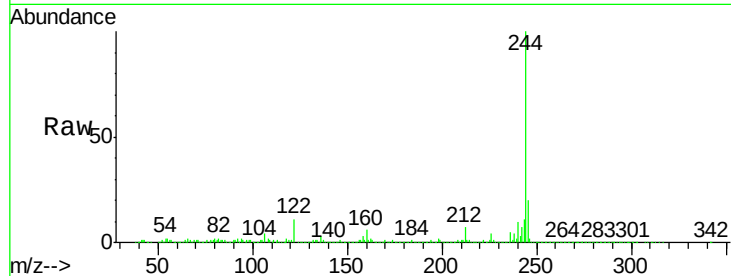
Tot Ion:244 Resp: 1355859

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.9   | 5.4   | 8.2   |
| 122 | 10.7  | 7.6   | 11.4  |

244 100

212 6.9 5.4 8.2

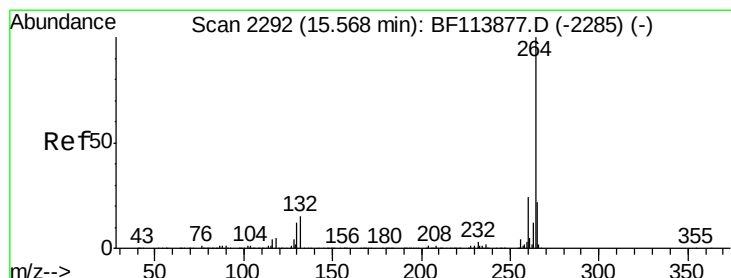
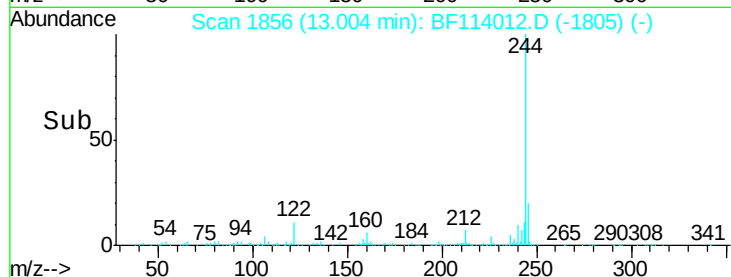
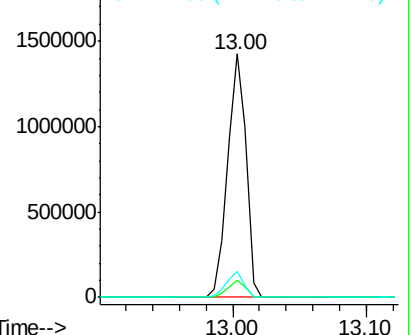
122 10.7 7.6 11.4



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.55 min Scan# 2289

Delta R.T. -0.02 min

Lab File: BF114012.D

Acq: 26 Apr 2019 16:23

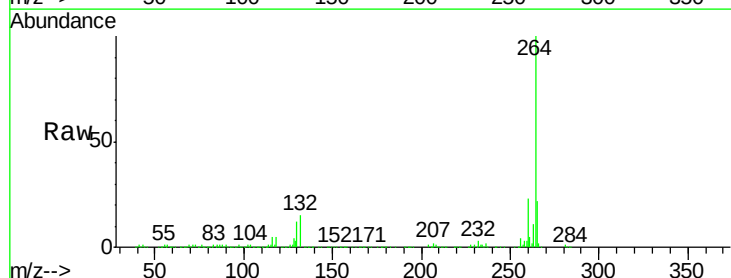
Tgt Ion:264 Resp: 361876

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.1  | 18.9  | 28.3  |
| 265 | 22.0  | 17.3  | 25.9  |

264 100

260 23.1 18.9 28.3

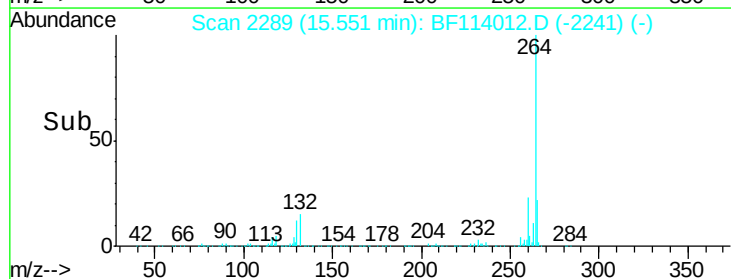
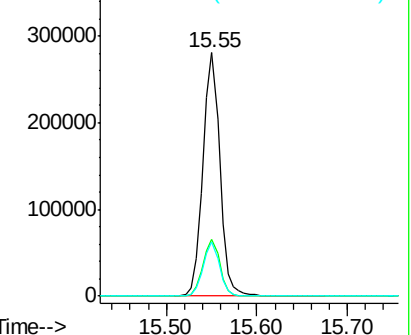
265 22.0 17.3 25.9

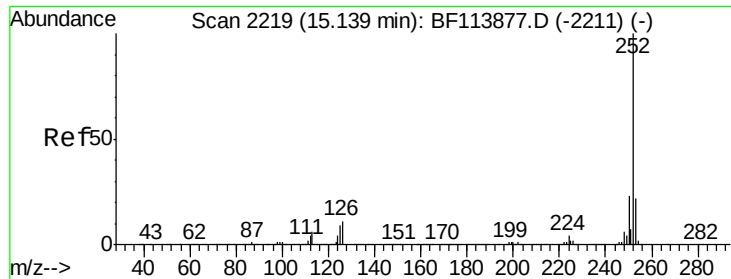


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

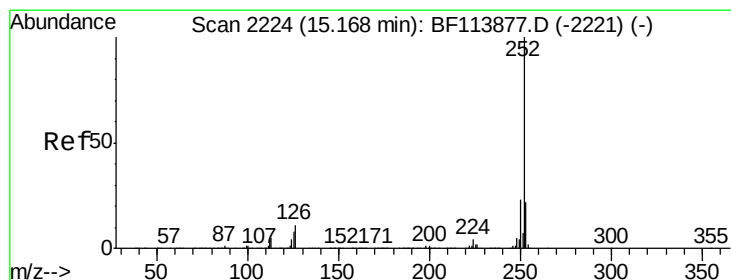
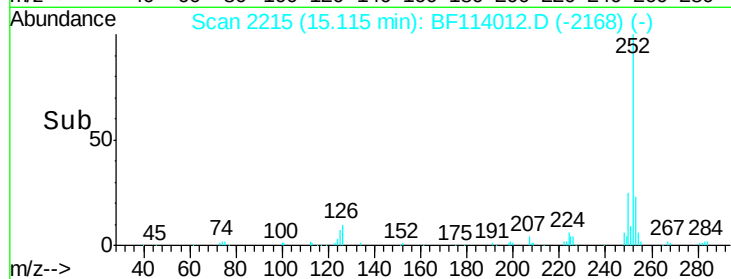
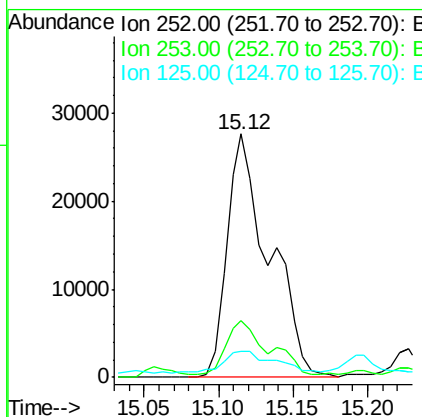
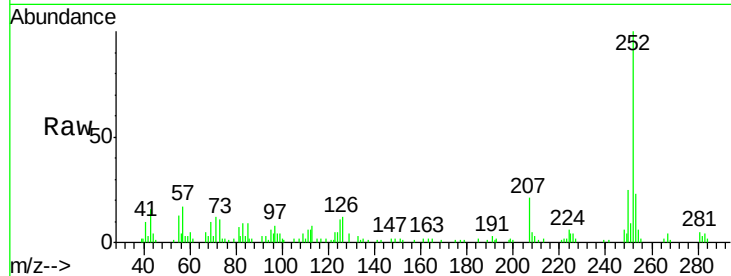




#88  
Benzo(b)fluoranthene  
Concen: 2.370 ng  
RT: 15.12 min Scan# 2215  
Delta R.T. -0.02 min  
Lab File: BF114012.D  
Acq: 26 Apr 2019 16:23

Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTON

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.8  | 26.6  |
| 125     | 10.6  | 7.0   | 10.6# |



#89  
Benzo(k)fluoranthene  
Concen: 2.755 ng  
RT: 15.12 min Scan# 2215  
Delta R.T. -0.05 min  
Lab File: BF114012.D  
Acq: 26 Apr 2019 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 18.2  | 27.2  |
| 125     | 10.6  | 7.4   | 11.2  |

