

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030618\  
 Data File : BF103470.D  
 Acq On : 6 Mar 2018 21:55  
 Operator : SJ/JU  
 Sample : J1722-15 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 07 00:15:12 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 06 11:52:59 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 130092   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 515891   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.91  | 164  | 216420   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.41 | 188  | 306117   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 209710   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.58 | 264  | 157347   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 5) 2-Fluorophenol           | 5.49  | 112 | 493215 | 57.34 | ng | 0.00 |
| 7) Phenol-d6                | 6.51  | 99  | 616246 | 58.55 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.44  | 82  | 369108 | 40.86 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.71 | 330 | 62178  | 33.94 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.23  | 172 | 538829 | 36.91 | ng | 0.00 |
| 78) Terphenyl-d14           | 12.99 | 244 | 364501 | 41.78 | ng | 0.00 |

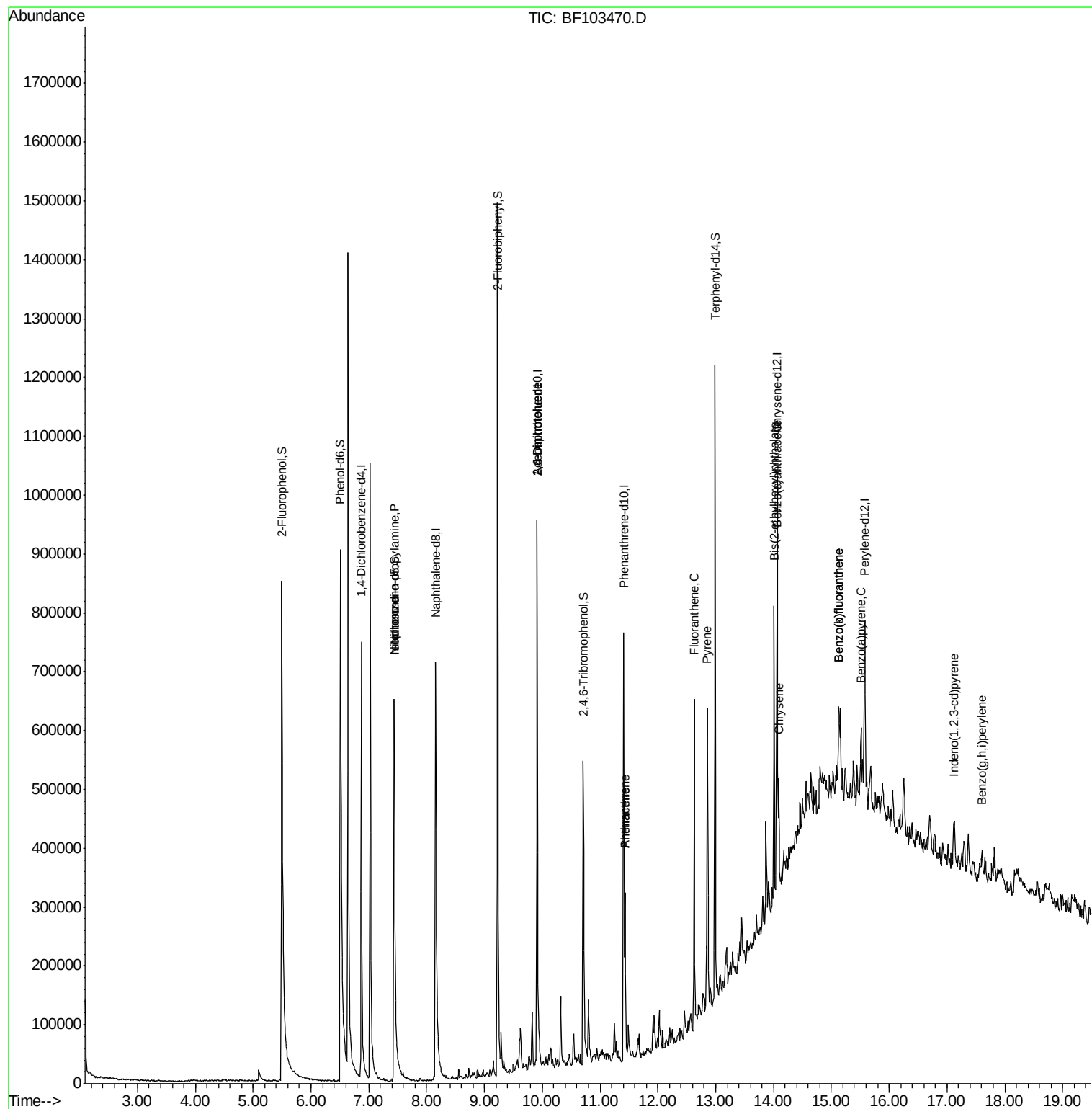
|                                |       |     |        |           |    |    |
|--------------------------------|-------|-----|--------|-----------|----|----|
| Target Compounds               |       |     |        | Qvalue    |    |    |
| 9) Benzaldehyde                | 6.51  | 77  | 1185   | Below Cal | #  | 1  |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70  | 48358  | 7.382     | ng | 84 |
| 25) Isophorone                 | 7.44  | 82  | 369108 | 20.746    | ng | 64 |
| 50) 2,6-Dinitrotoluene         | 9.91  | 165 | 28077  | 7.706     | ng | 26 |
| 56) 2,4-Dinitrotoluene         | 9.91  | 165 | 28407  | 6.165     | ng | 24 |
| 70) Phenanthrene               | 11.43 | 178 | 97108  | 5.764     | ng | 98 |
| 71) Anthracene                 | 11.43 | 178 | 97108  | 5.621     | ng | 99 |
| 74) Fluoranthene               | 12.63 | 202 | 220774 | 13.041    | ng | 99 |
| 77) Pyrene                     | 12.86 | 202 | 219122 | 13.402    | ng | 99 |
| 80) Benzo(a)anthracene         | 14.05 | 228 | 88741  | 6.522     | ng | 97 |
| 82) Chrysene                   | 14.09 | 228 | 79886  | 6.047     | ng | 97 |
| 83) Bis(2-ethylhexyl)phthalate | 14.01 | 149 | 135321 | 11.608    | ng | 98 |
| 85) Indeno(1,2,3-cd)pyrene     | 17.13 | 276 | 29764  | 2.846     | ng | 96 |
| 87) Benzo(b)fluoranthene       | 15.13 | 252 | 104239 | 10.076    | ng | 84 |
| 88) Benzo(k)fluoranthene       | 15.13 | 252 | 104239 | 10.700    | ng | 87 |
| 89) Benzo(a)pyrene             | 15.52 | 252 | 53926  | 5.837     | ng | 83 |
| 91) Benzo(a,h,i)perylene       | 17.60 | 276 | 29653  | 4.250     | ng | 88 |

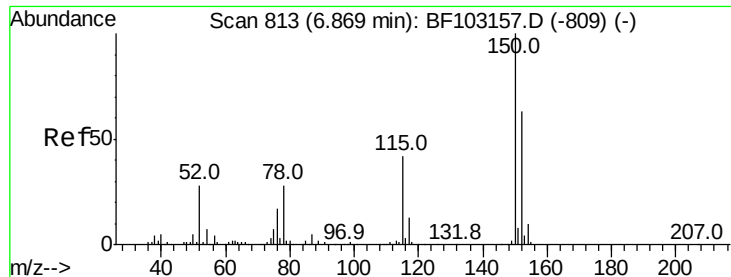
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030618\  
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BNA\_F  
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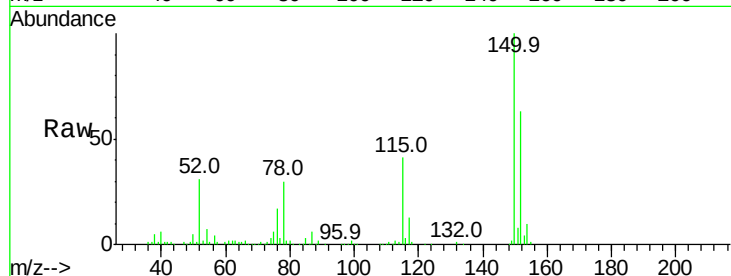


#1

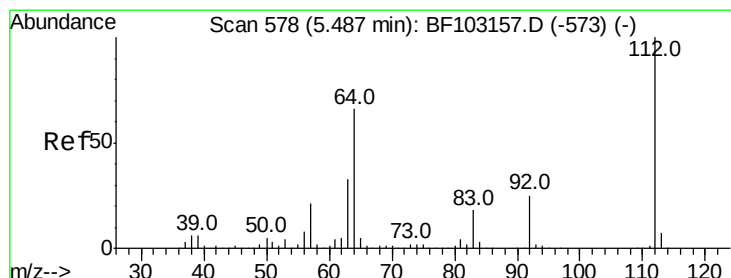
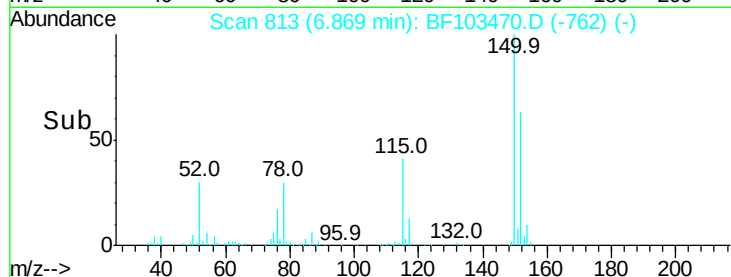
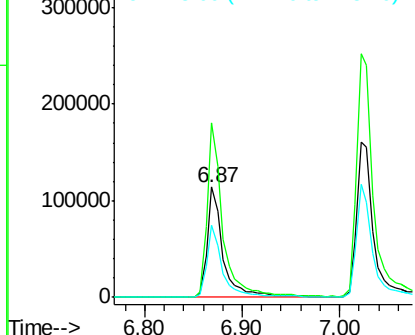
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.00 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 130092  
Ion Ratio Lower Upper  
152 100  
150 157.8 124.6 186.8  
115 65.3 50.1 75.1



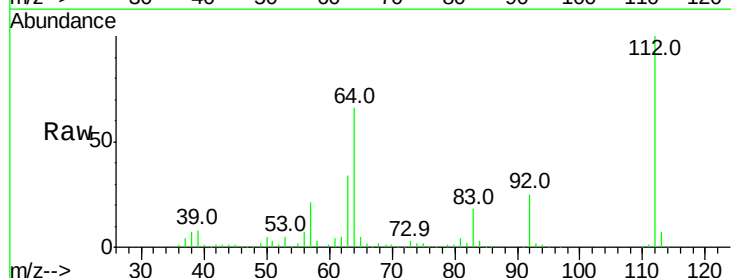
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



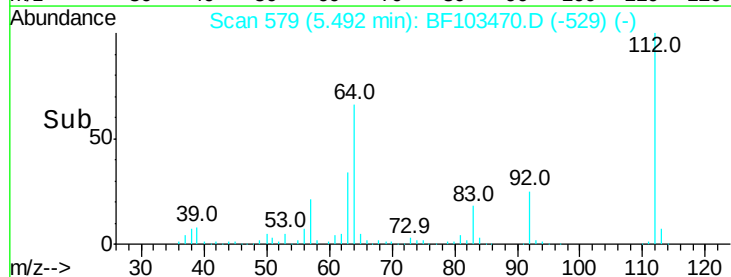
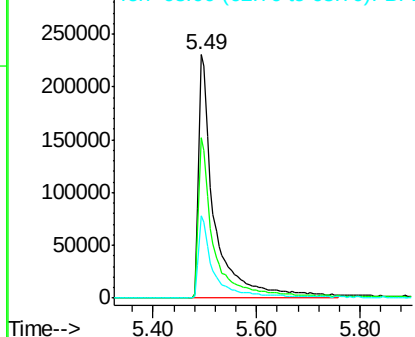
#5

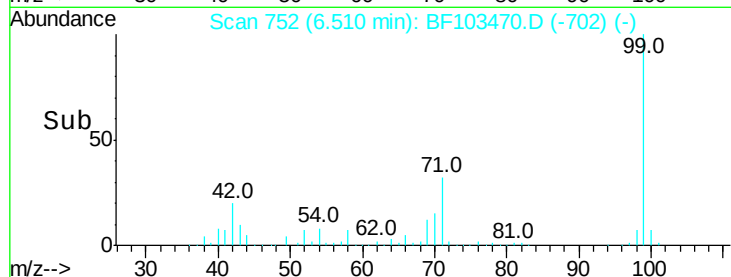
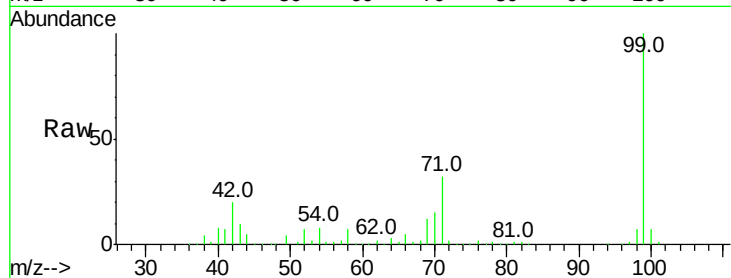
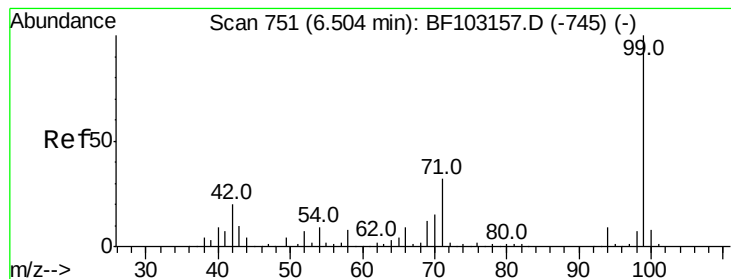
2-Fluorophenol  
Concen: 57.340 ng  
RT: 5.49 min Scan# 579  
Delta R.T. -0.01 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

Tgt Ion:112 Resp: 493215  
Ion Ratio Lower Upper  
112 100  
64 66.1 47.9 71.9  
63 33.9 23.7 35.5



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: 58.549 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

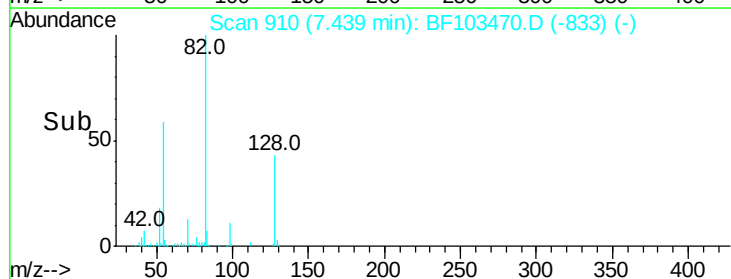
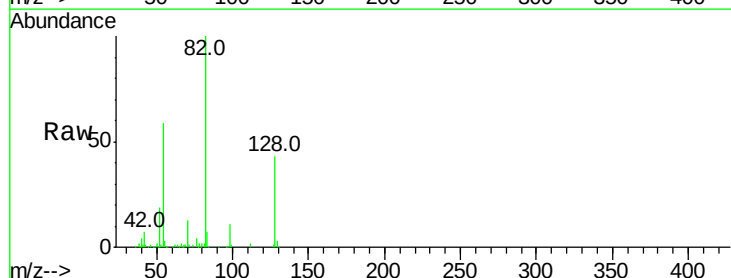
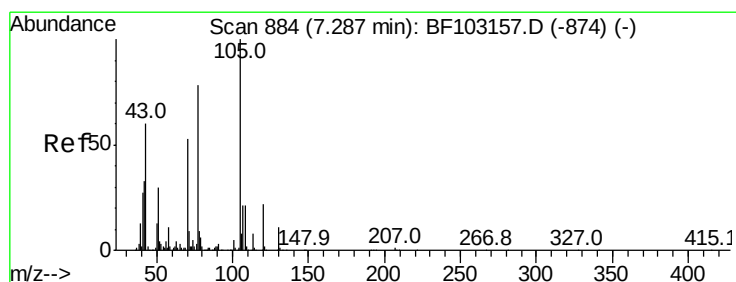
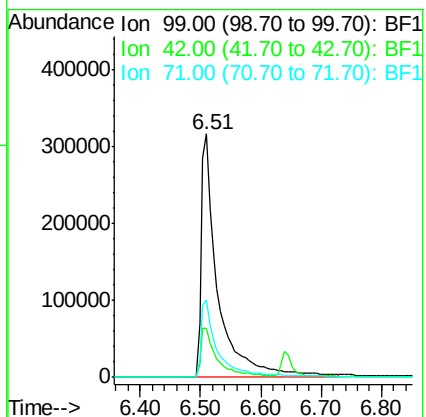
Tot Ion: 99 Resp: 616246

Ion Ratio Lower Upper

99 100

42 20.4 14.5 21.7

71 31.6 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 7.382 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

Tgt Ion: 70 Resp: 48358

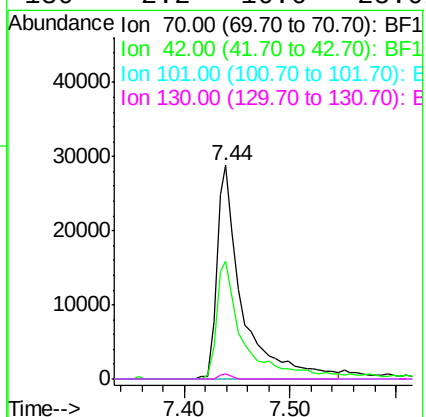
Ion Ratio Lower Upper

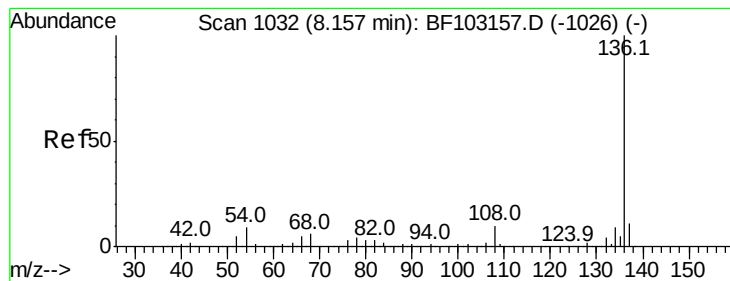
70 100

42 55.3 47.5 71.3

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 515891

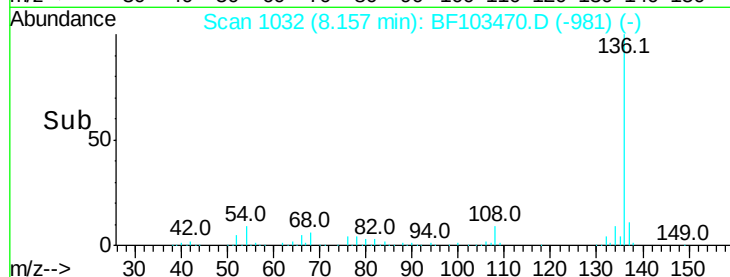
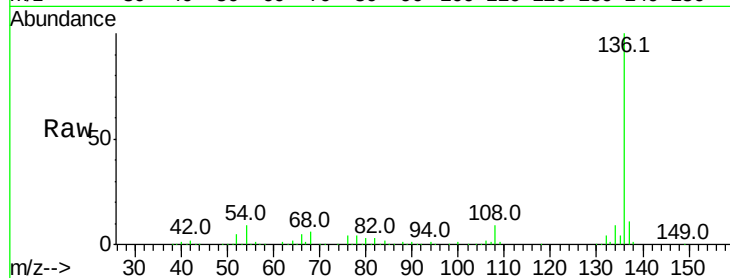
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.6 6.6 9.8

68 6.0 5.0 7.4

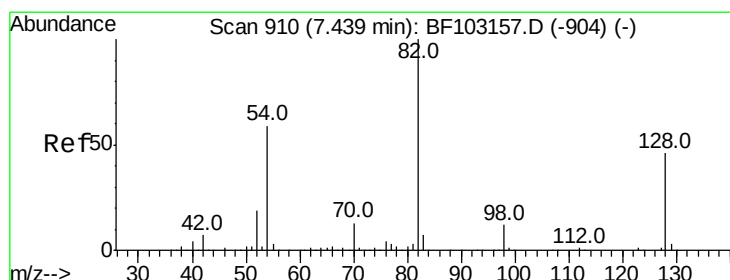
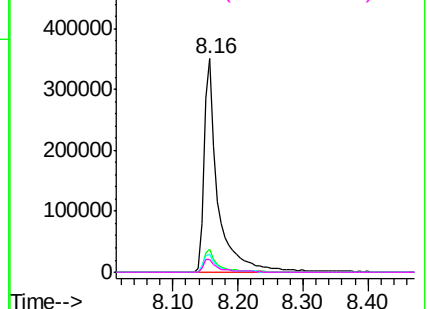


Abundance Ion 136.00 (135.70 to 136.70): E

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: 40.860 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

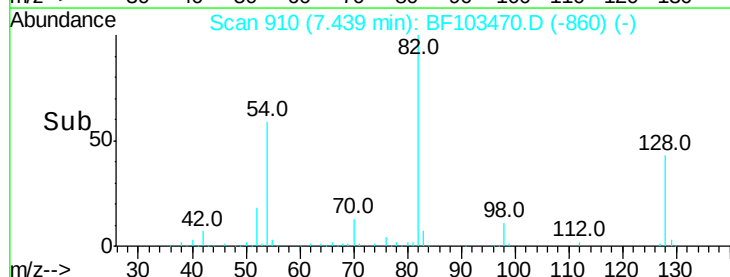
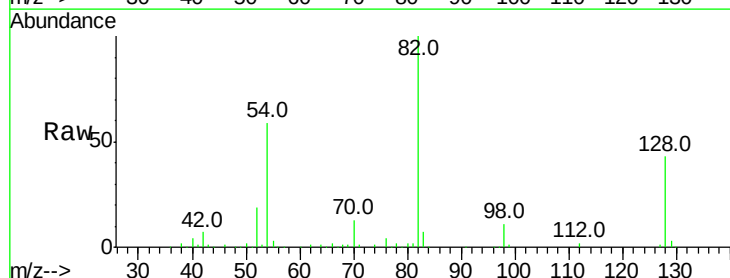
Tgt Ion: 82 Resp: 369108

Ion Ratio Lower Upper

82 100

128 42.6 36.1 54.1

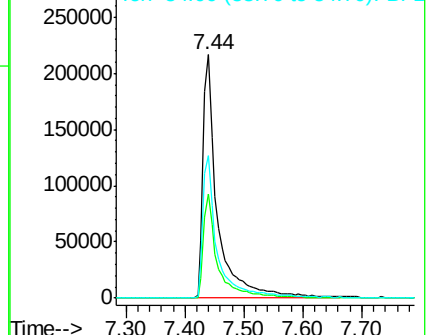
54 58.8 41.4 62.2

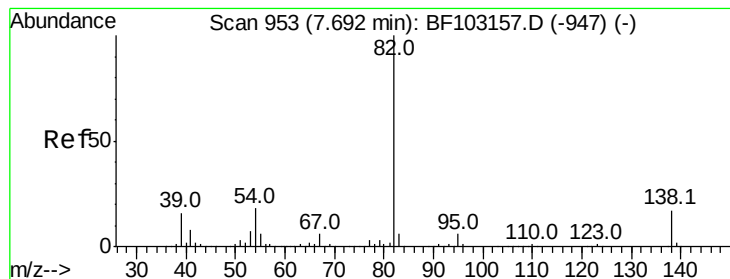


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 20.746 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.25 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

Instrument :

BNA\_F

ClientSampled :

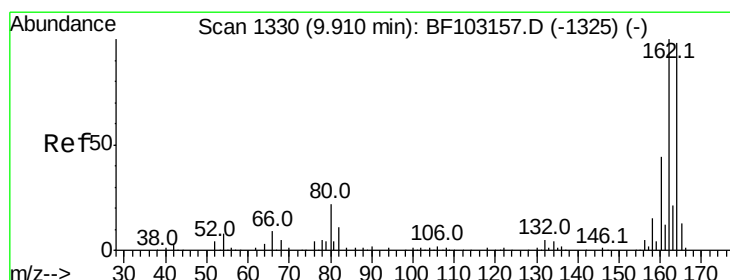
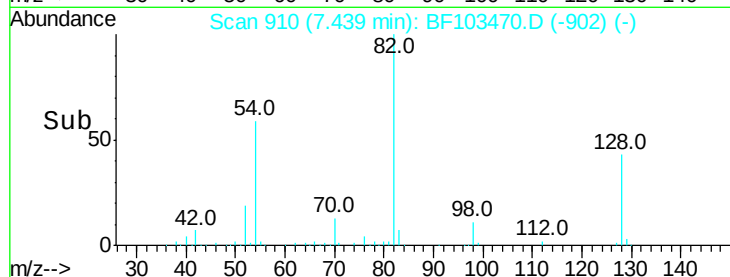
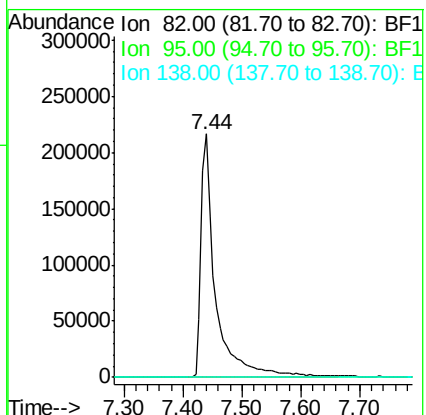
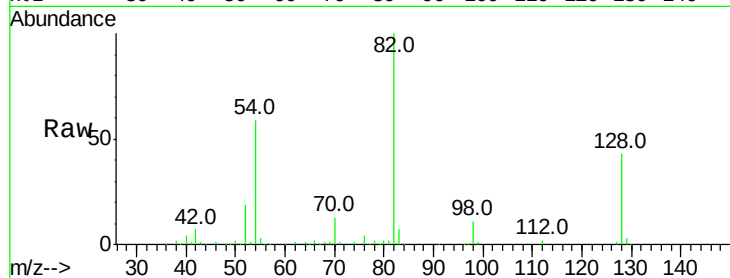
Tot Ion: 82 Resp: 369108

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

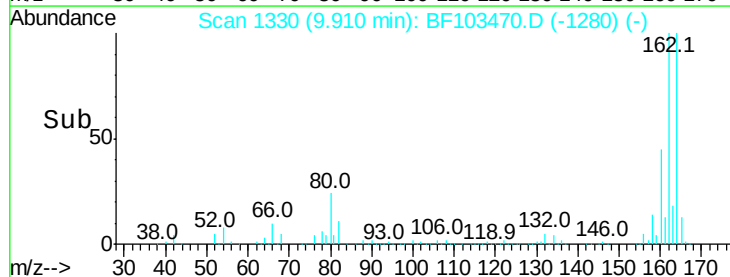
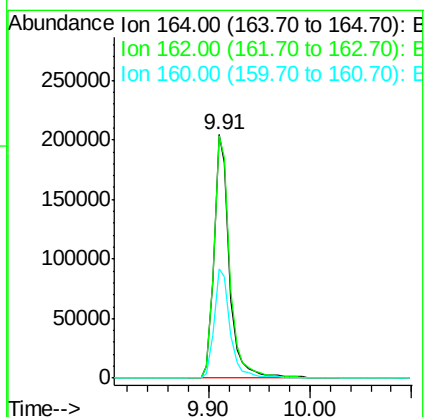
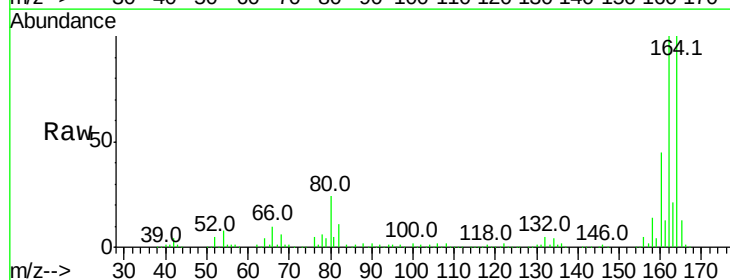
Tgt Ion:164 Resp: 216420

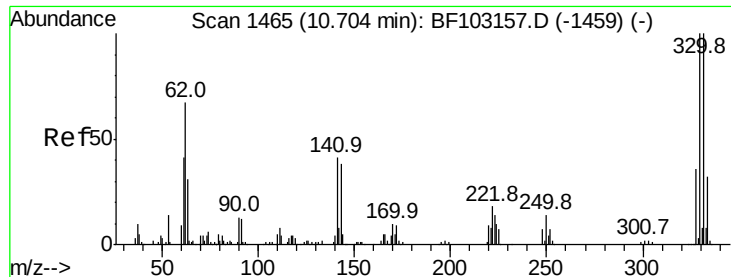
Ion Ratio Lower Upper

164 100

162 99.7 86.1 129.1

160 44.8 38.3 57.5

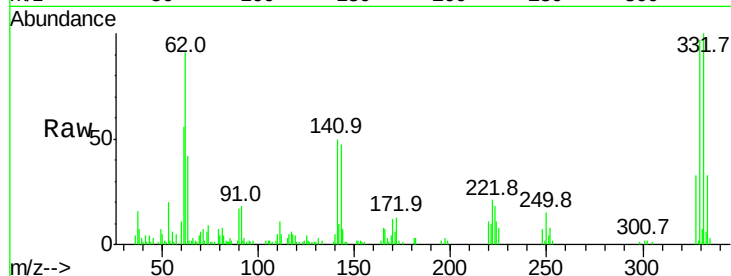




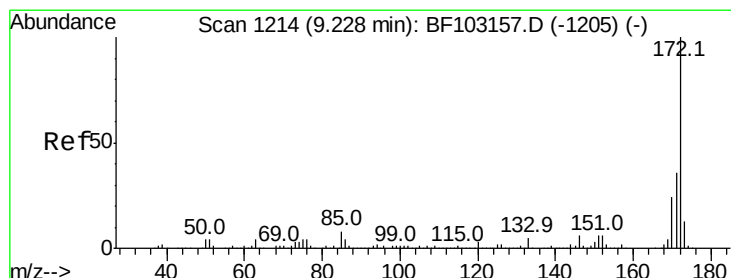
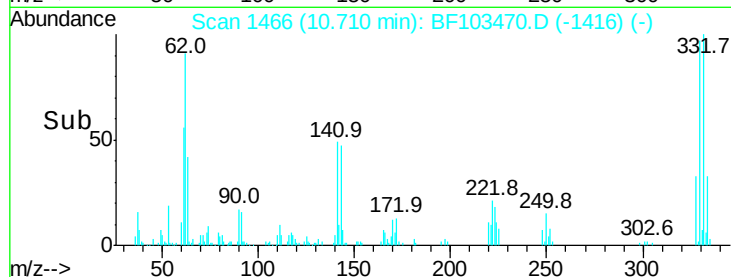
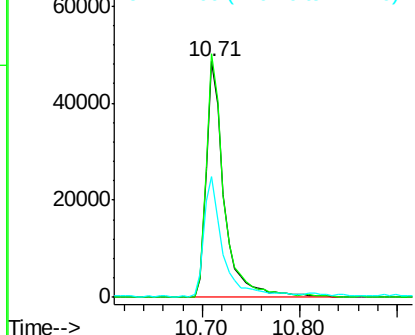
#41  
 2,4,6-Tribromophenol  
 Concen: 33.942 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.01 min  
 Lab File: BF103470.D  
 Acq: 6 Mar 2018 21:55

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 62178  
 Ion Ratio Lower Upper  
 330 100  
 332 100.7 77.0 115.6  
 141 54.8 29.9 44.9#

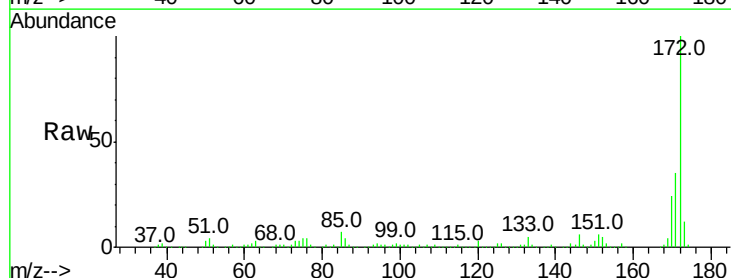


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

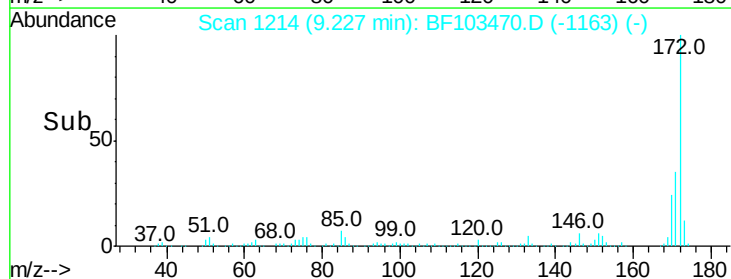
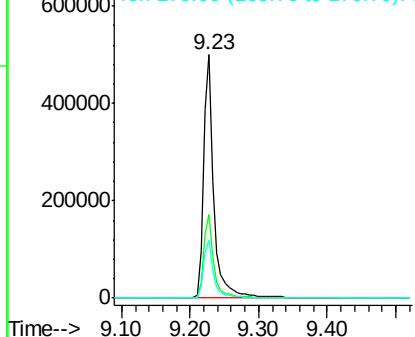


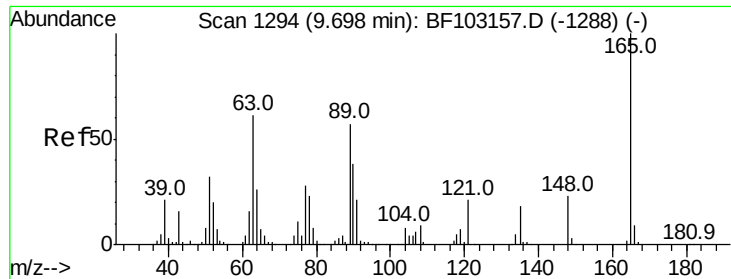
#44  
 2-Fluorobiphenyl  
 Concen: 36.913 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.00 min  
 Lab File: BF103470.D  
 Acq: 6 Mar 2018 21:55

Tgt Ion:172 Resp: 538829  
 Ion Ratio Lower Upper  
 172 100  
 171 34.5 29.7 44.5  
 170 24.1 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

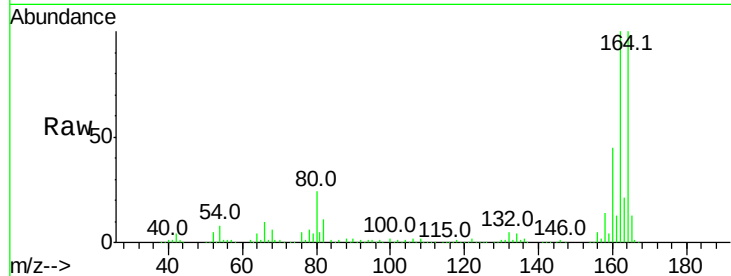




#50  
2,6-Dinitrotoluene  
Concen: 7.706 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. 0.21 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

Instrument :  
BNA\_F  
ClientSampleId :

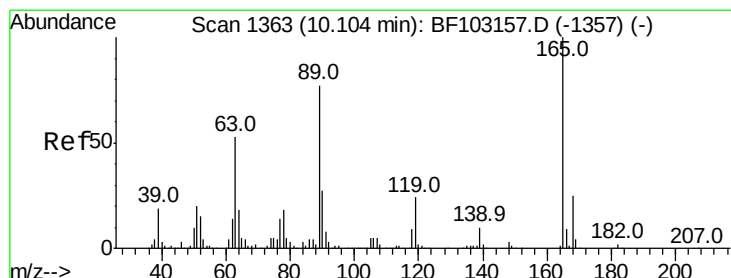
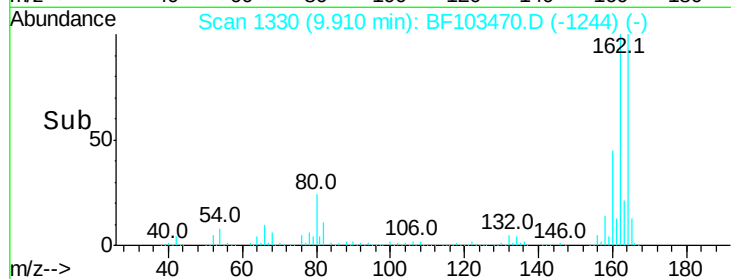
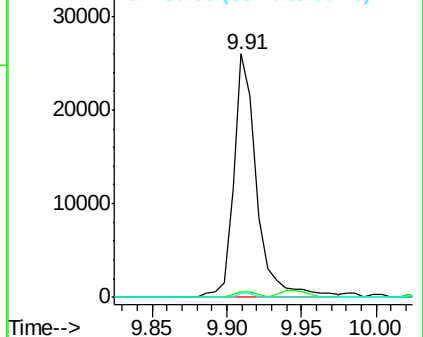
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.2   | 44.7  | 67.1# |
| 89      | 1.7   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E

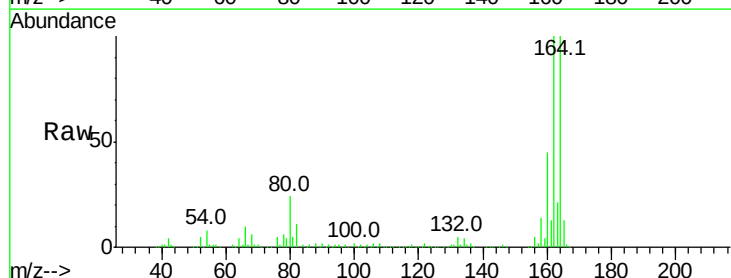
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#56  
2,4-Dinitrotoluene  
Concen: 6.165 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.21 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.2   | 36.4  | 54.6# |
| 89      | 1.7   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

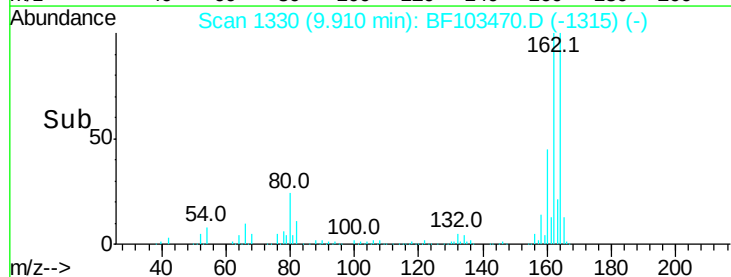
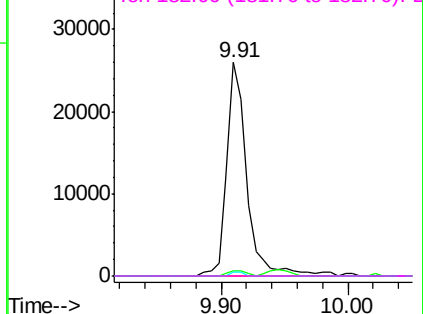


Abundance Ion 165.00 (164.70 to 165.70): E

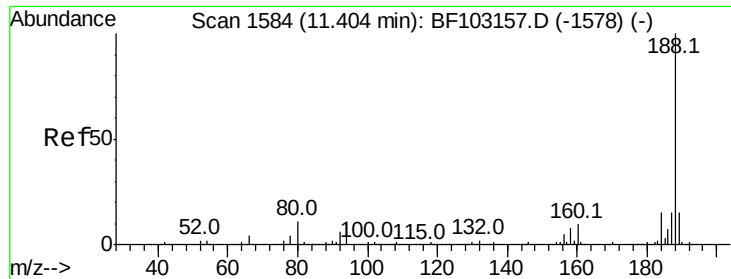
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



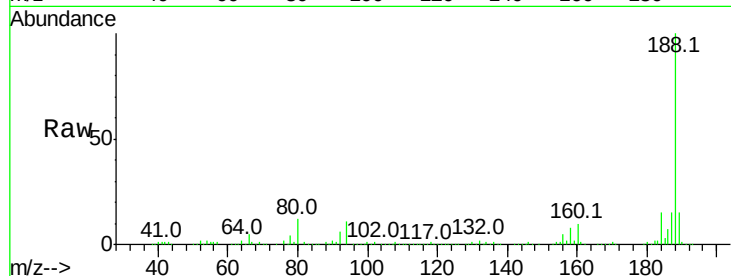




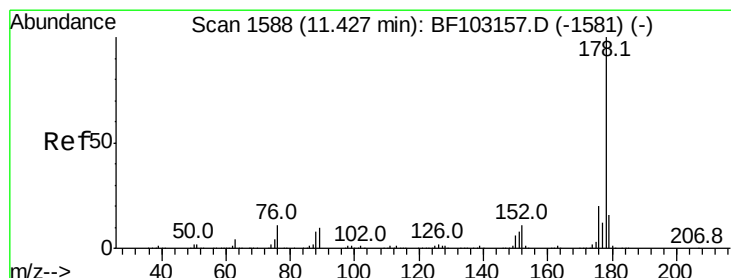
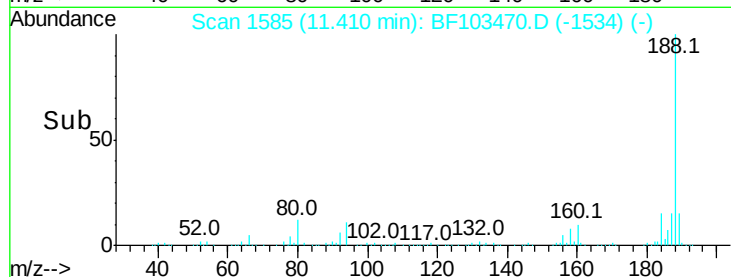
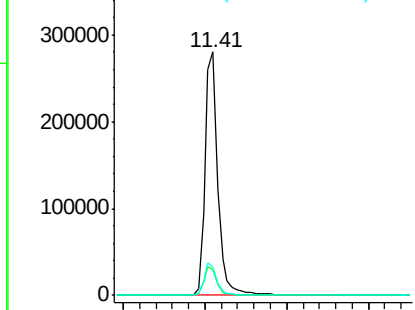
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. -0.00 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 306117  
Ion Ratio Lower Upper  
188 100  
94 10.8 8.5 12.7  
80 11.6 9.2 13.8

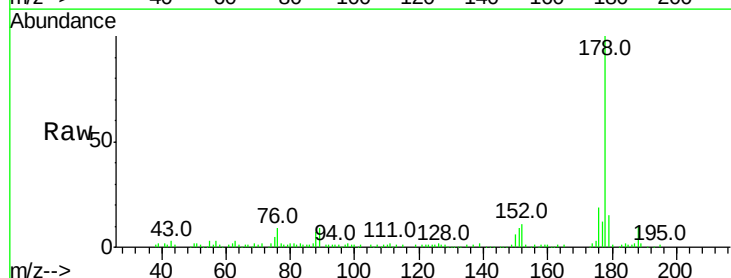


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

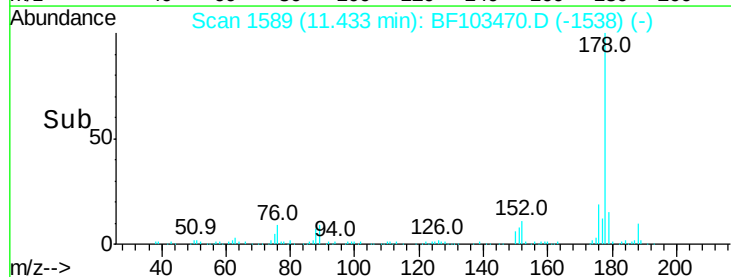
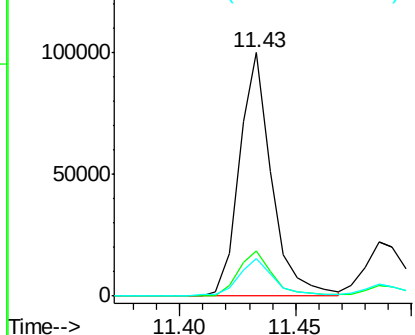


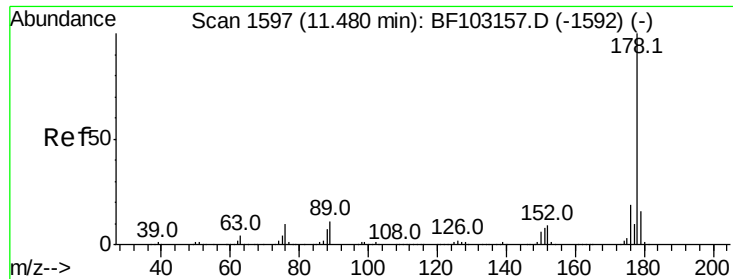
#70  
Phenanthrene  
Concen: 5.764 ng  
RT: 11.43 min Scan# 1589  
Delta R.T. -0.00 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

Tgt Ion:178 Resp: 97108  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.8 23.8  
179 15.4 13.0 19.6



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

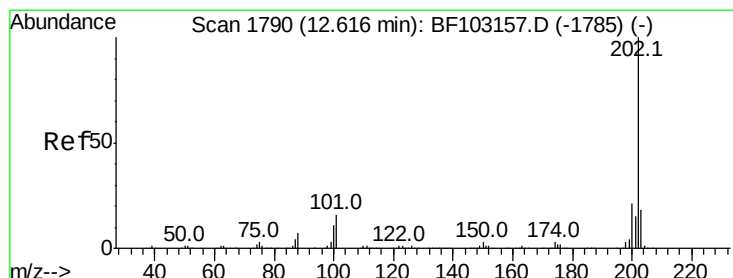
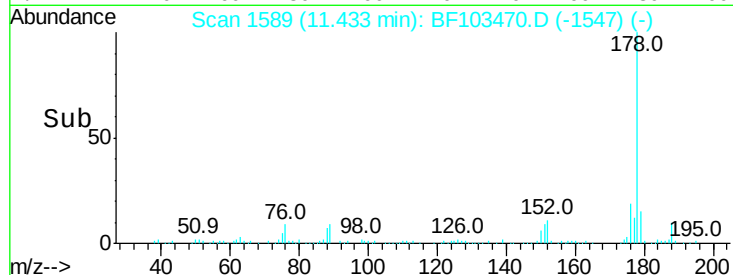
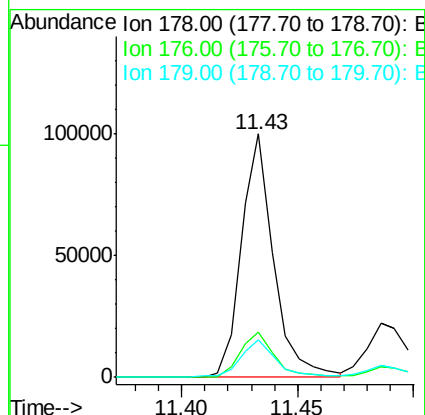
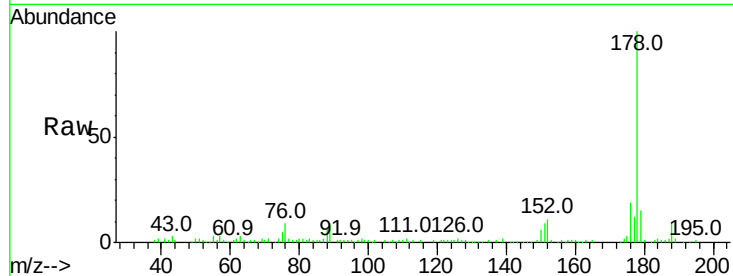




#71  
 Anthracene  
 Concen: 5.621 ng  
 RT: 11.43 min Scan# 1589  
 Delta R.T. -0.05 min  
 Lab File: BF103470.D  
 Acq: 6 Mar 2018 21:55

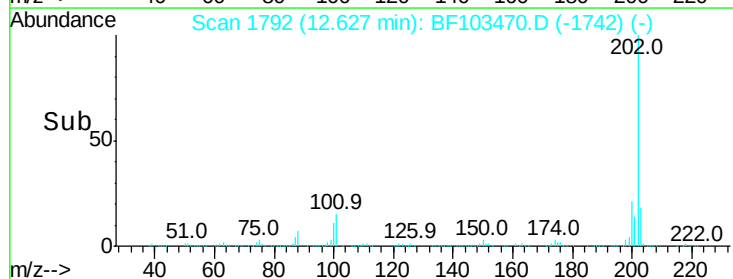
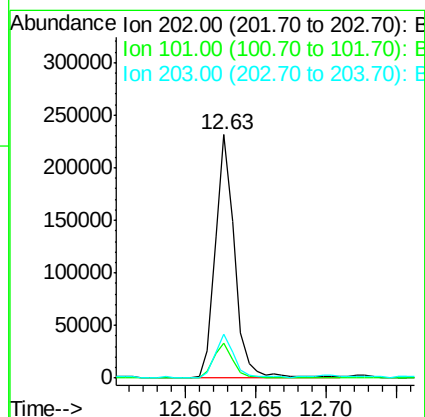
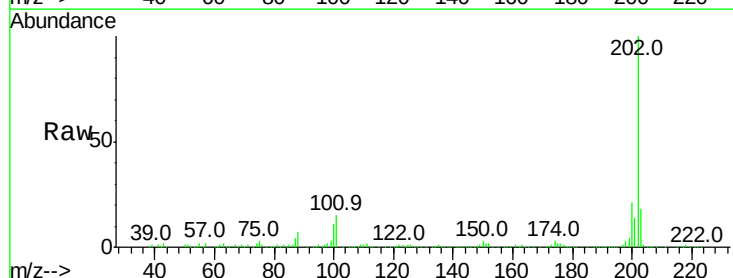
Instrument :  
 BNA\_F  
 ClientSampleId :

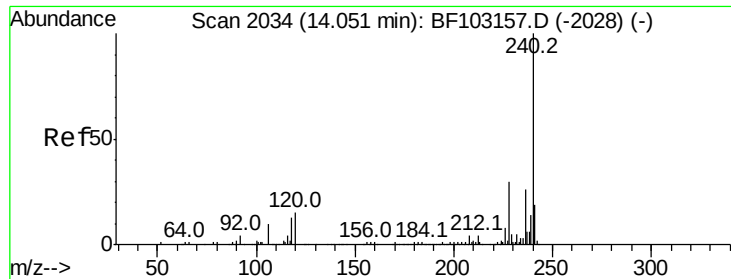
Tot Ion:178 Resp: 97108  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 15.4 23.2  
 179 15.4 12.6 19.0



#74  
 Fluoranthene  
 Concen: 13.041 ng  
 RT: 12.63 min Scan# 1792  
 Delta R.T. -0.01 min  
 Lab File: BF103470.D  
 Acq: 6 Mar 2018 21:55

Tgt Ion:202 Resp: 220774  
 Ion Ratio Lower Upper  
 202 100  
 101 14.6 0.0 34.1  
 203 18.2 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

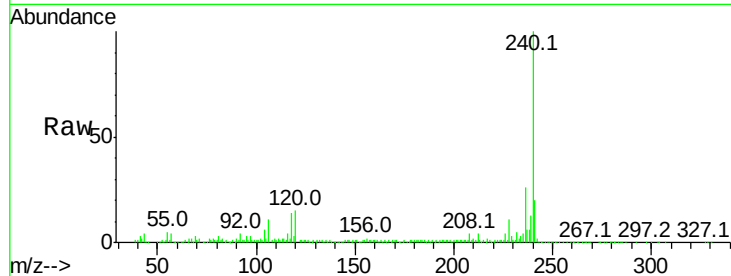
Tot Ion:240 Resp: 209710

Ion Ratio Lower Upper

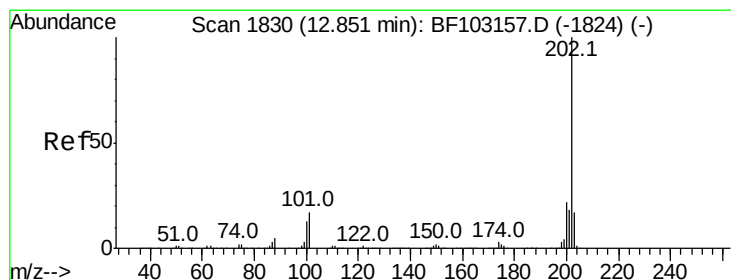
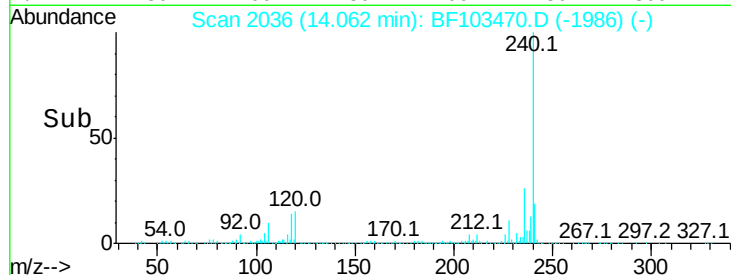
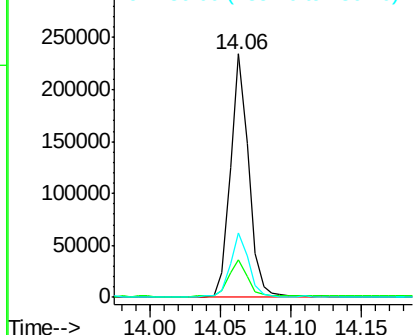
240 100

120 15.3 9.5 14.3#

236 26.5 20.7 31.1



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



#77

Pyrene

Concen: 13.402 ng

RT: 12.86 min Scan# 1831

Delta R.T. -0.01 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

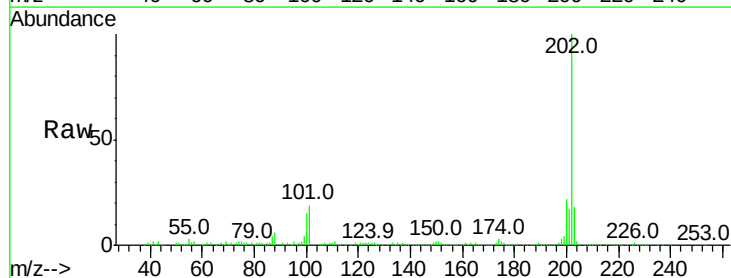
Tgt Ion:202 Resp: 219122

Ion Ratio Lower Upper

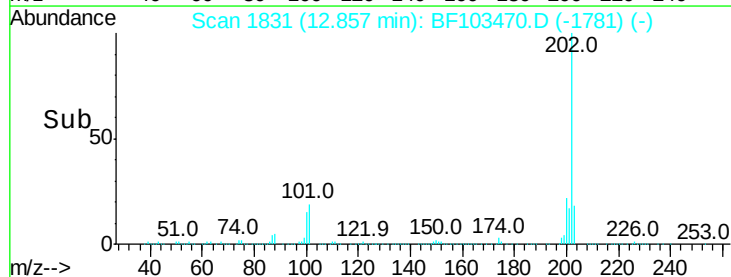
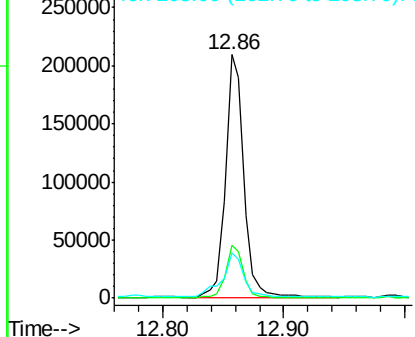
202 100

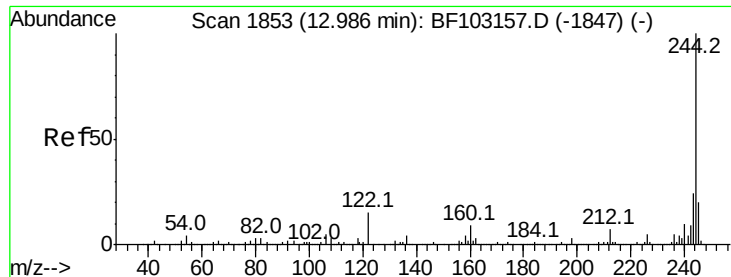
200 21.9 17.4 26.2

203 18.4 14.3 21.5



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





#78

Terphenyl-d14

Concen: 41.782 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

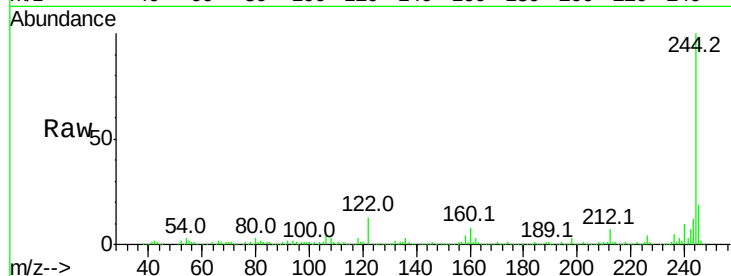
Tot Ion:244 Resp: 364501

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

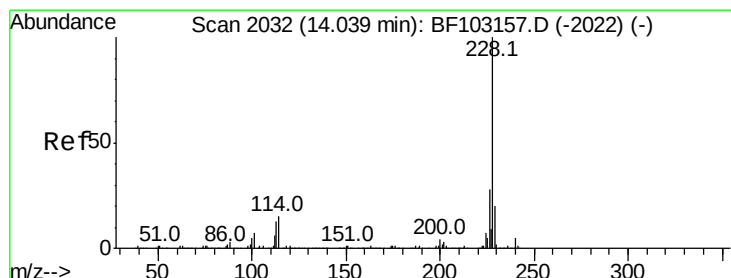
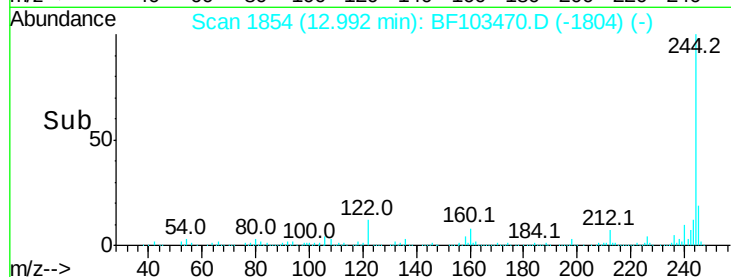
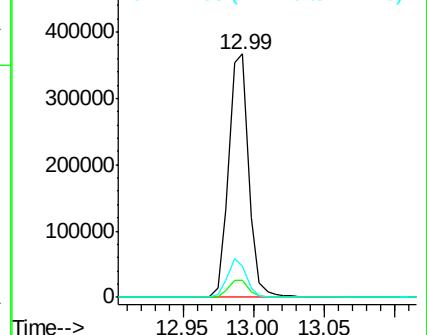
122 12.5 11.0 16.4



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



#80

Benzo(a)anthracene

Concen: 6.522 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

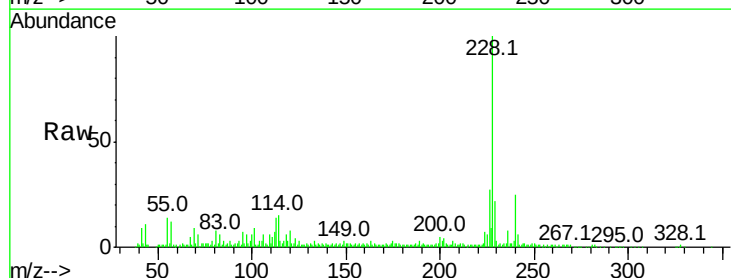
Tgt Ion:228 Resp: 88741

Ion Ratio Lower Upper

228 100

226 27.4 22.6 33.8

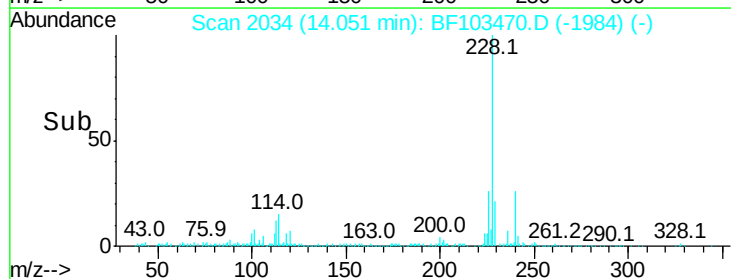
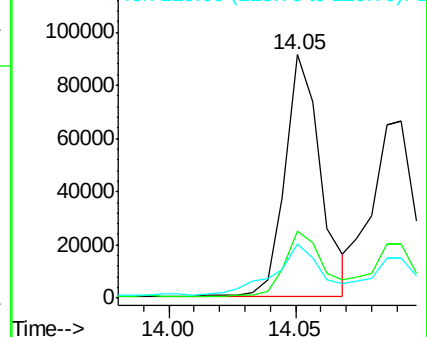
229 22.3 15.8 23.6

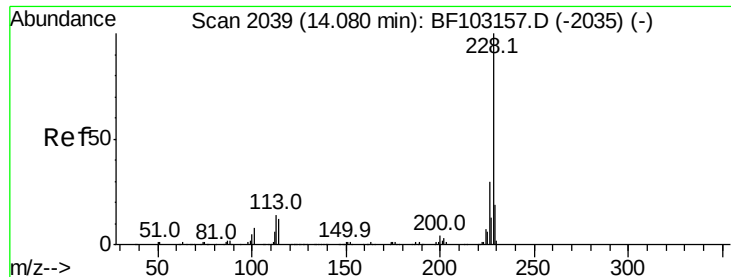


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

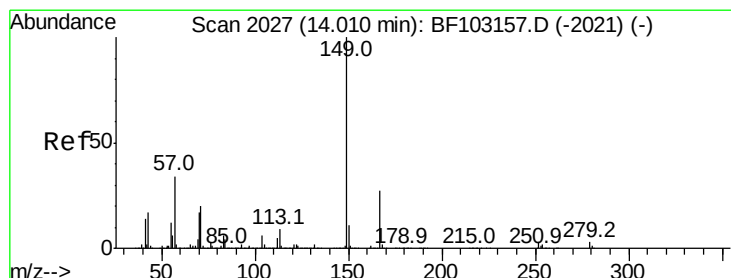
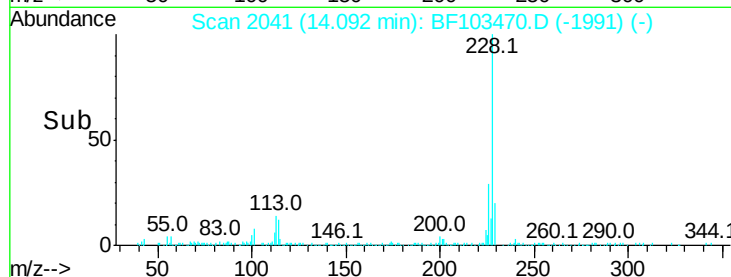
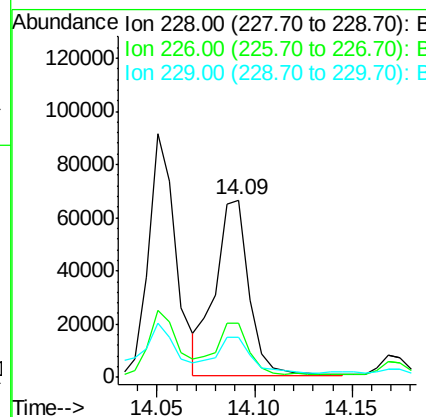
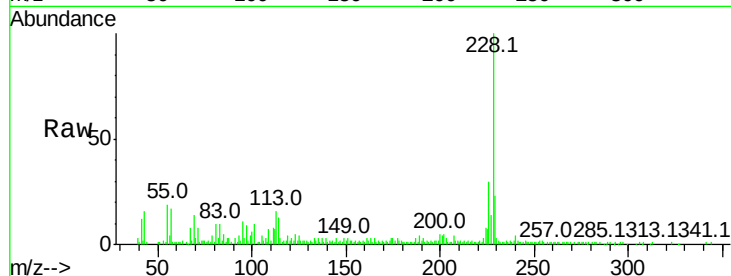




#82  
 Chrysene  
 Concen: 6.047 ng  
 RT: 14.09 min Scan# 2041  
 Delta R.T. -0.01 min  
 Lab File: BF103470.D  
 Acq: 6 Mar 2018 21:55

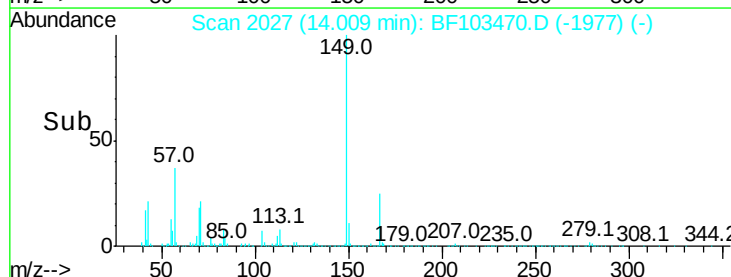
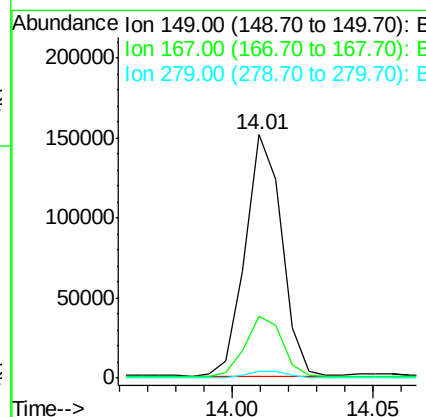
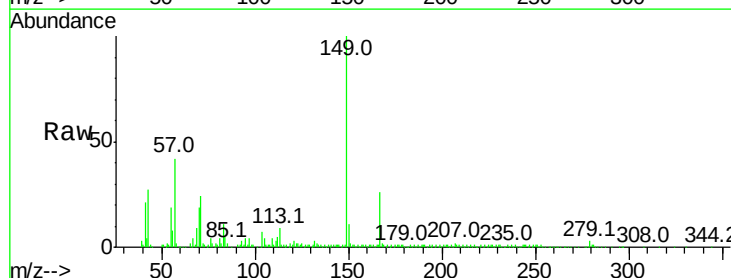
Instrument :  
 BNA\_F  
 ClientSampleId :

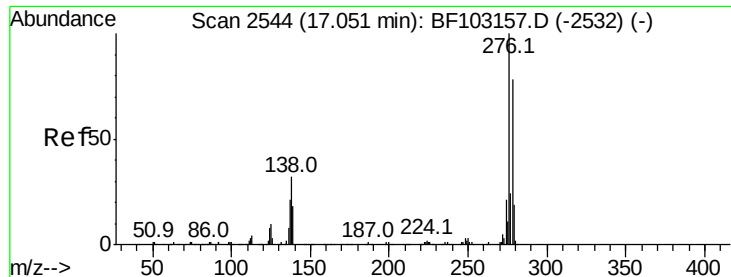
Tot Ion:228 Resp: 79886  
 Ion Ratio Lower Upper  
 228 100  
 226 30.5 25.0 37.6  
 229 22.8 16.2 24.4



#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 11.608 ng  
 RT: 14.01 min Scan# 2027  
 Delta R.T. -0.01 min  
 Lab File: BF103470.D  
 Acq: 6 Mar 2018 21:55

Tgt Ion:149 Resp: 135321  
 Ion Ratio Lower Upper  
 149 100  
 167 25.5 21.3 31.9  
 279 2.6 3.0 4.4#





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.846 ng

RT: 17.13 min Scan# 2557

Delta R.T. -0.01 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

Instrument :

BNA\_F

ClientSampleId :

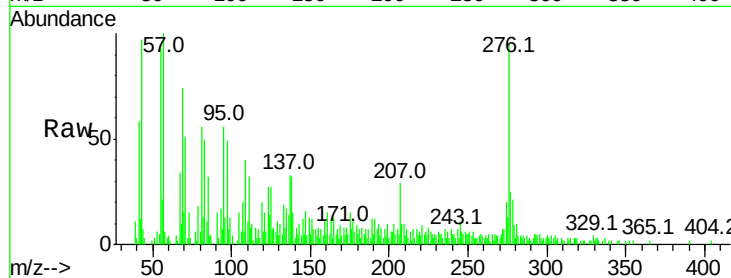
Tot Ion:276 Resp: 29764

Ion Ratio Lower Upper

276 100

138 33.0 25.0 37.6

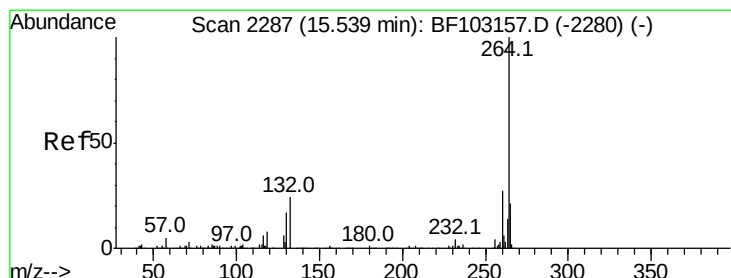
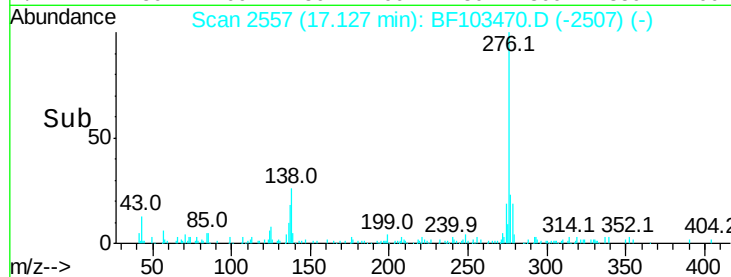
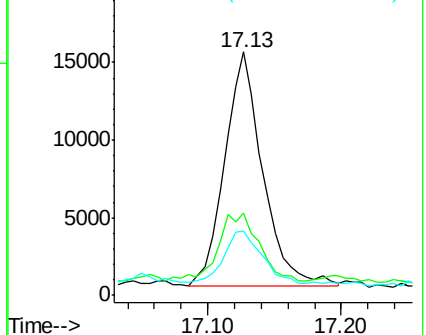
277 22.3 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.58 min Scan# 2294

Delta R.T. 0.01 min

Lab File: BF103470.D

Acq: 6 Mar 2018 21:55

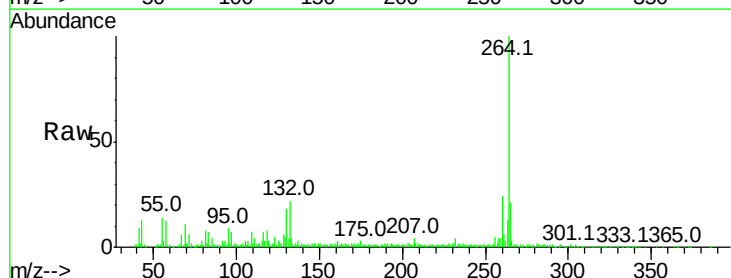
Tgt Ion:264 Resp: 157347

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

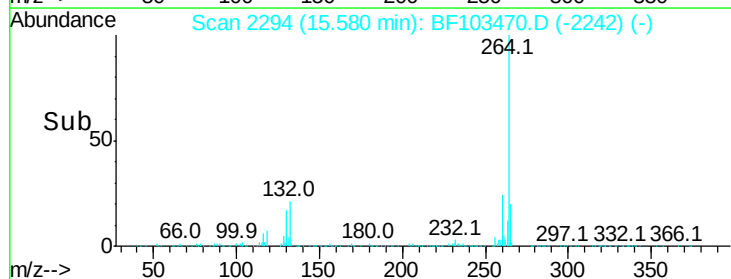
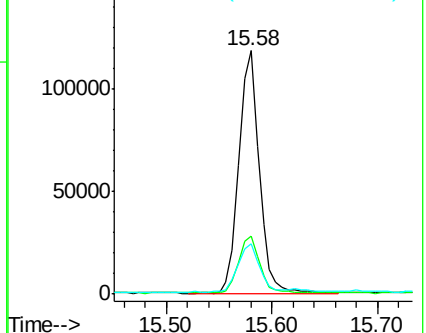
265 20.7 17.5 26.3

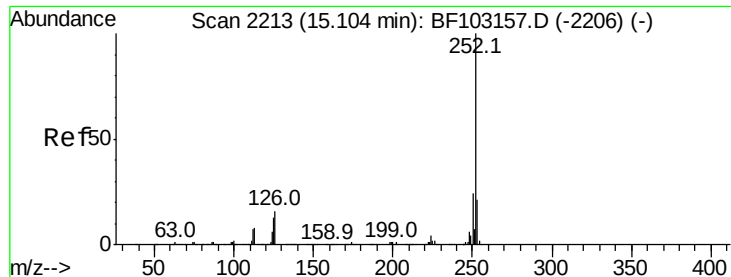


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

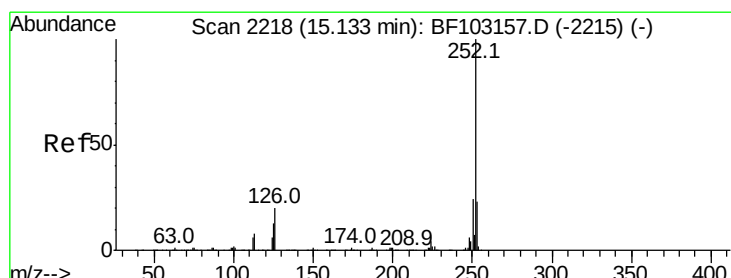
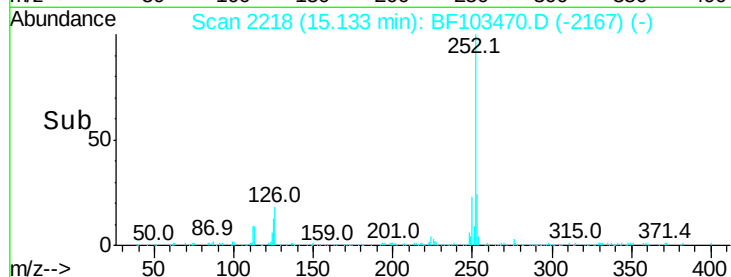
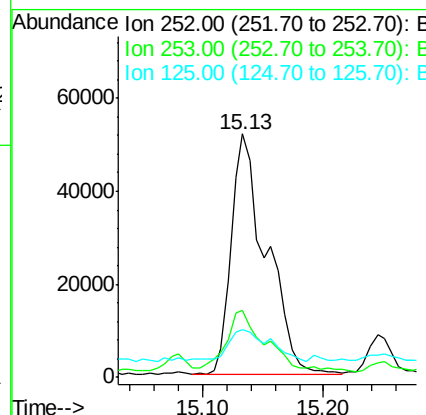
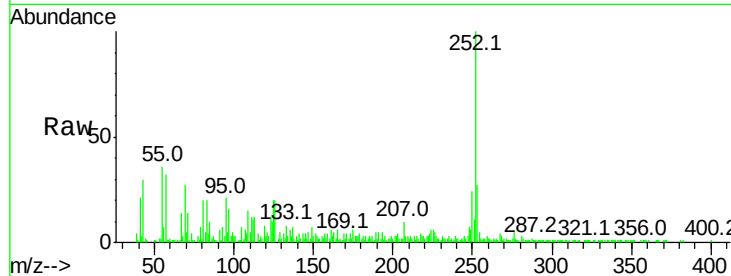




#87  
Benzo(b)fluoranthene  
Concen: 10.076 ng  
RT: 15.13 min Scan# 2218  
Delta R.T. -0.00 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

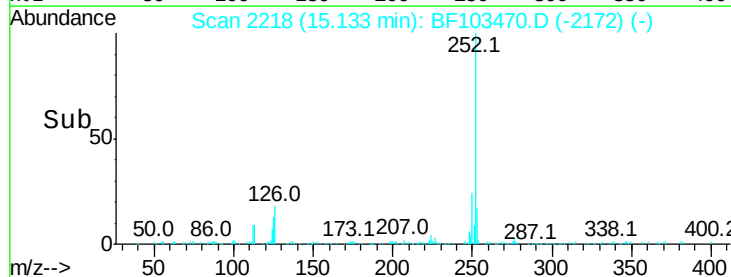
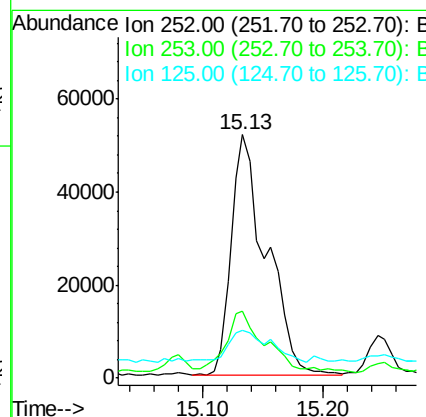
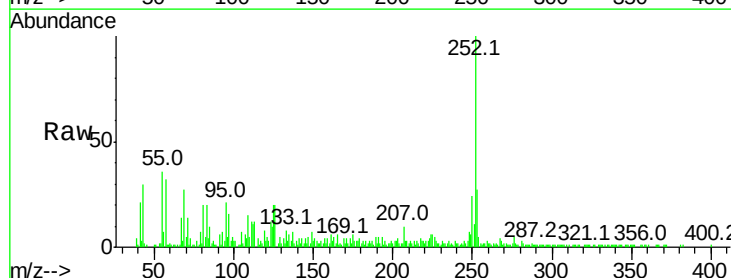
Instrument :  
BNA\_F  
ClientSampleId :

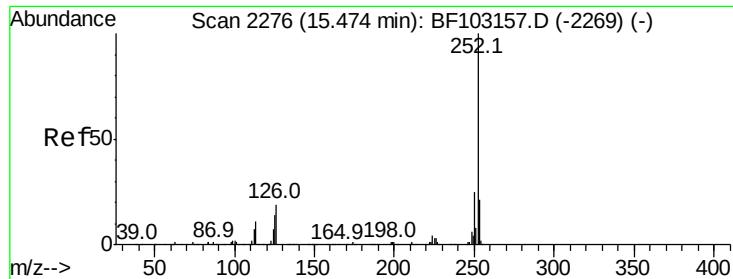
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.3  | 17.0  | 25.6# |
| 125     | 19.7  | 9.0   | 13.6# |



#88  
Benzo(k)fluoranthene  
Concen: 10.700 ng  
RT: 15.13 min Scan# 2218  
Delta R.T. -0.03 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.3  | 17.9  | 26.9# |
| 125     | 19.7  | 10.2  | 15.2# |

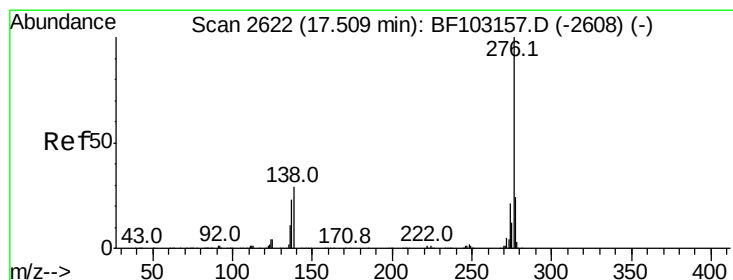
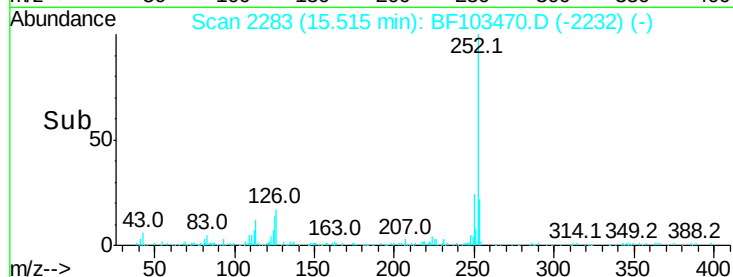
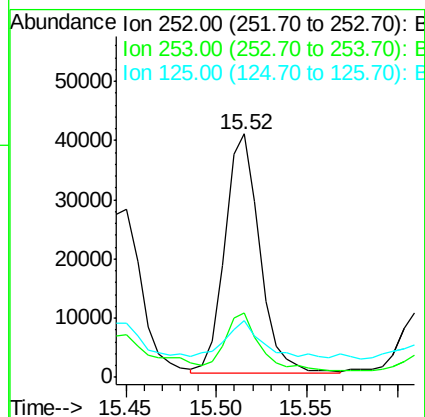
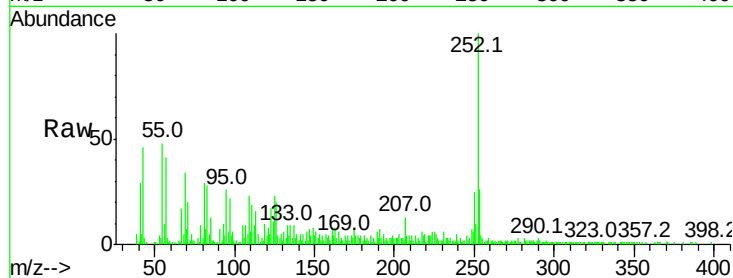




#89  
Benzo(a)pyrene  
Concen: 5.837 ng  
RT: 15.52 min Scan# 2283  
Delta R.T. -0.00 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 53926  
Ion Ratio Lower Upper  
252 100  
253 26.4 17.1 25.7#  
125 23.5 9.8 14.6#



#91  
Benzo(g,h,i)perylene  
Concen: 4.250 ng  
RT: 17.60 min Scan# 2638  
Delta R.T. 0.01 min  
Lab File: BF103470.D  
Acq: 6 Mar 2018 21:55

Tgt Ion:276 Resp: 29653  
Ion Ratio Lower Upper  
276 100  
277 24.9 17.9 26.9  
138 36.1 21.8 32.8#

