

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112818\  
 Data File : BF111051.D  
 Acq On : 28 Nov 2018 17:52  
 Operator : JU/SJ  
 Sample : J6060-04  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

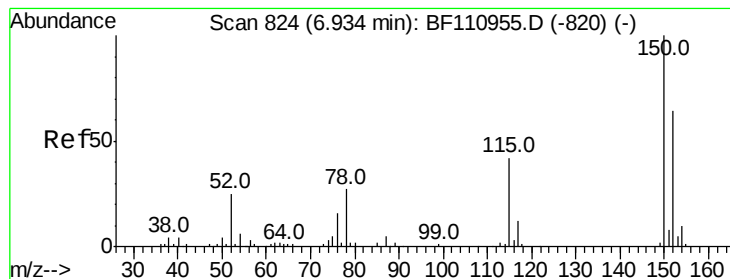
Instrument :  
 BNA\_F  
 ClientSampleId :  
 20180945-COMPOSITE-4

Quant Time: Nov 29 02:51:10 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF112618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 27 15:32:10 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.93  | 152  | 59489    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.22  | 136  | 251388   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.97  | 164  | 119315   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.47 | 188  | 209190   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.13 | 240  | 119292   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.66 | 264  | 121429   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.56  | 112  | 435325   | 121.35 | ng    | 0.00     |
| 7) Phenol-d6                | 6.56  | 99   | 548035   | 117.23 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.50  | 82   | 350267   | 79.74  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.77 | 330  | 129858   | 109.59 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.29  | 172  | 609855   | 74.05  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.05 | 244  | 411887   | 67.21  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.57  | 94   | 30293    | 5.754  | ng    | 81       |
| 50) Dimethylphthalate       | 9.69  | 163  | 90629    | 10.357 | ng    | 98       |
| 71) Phenanthrene            | 11.50 | 178  | 45924    | 4.145  | ng    | 98       |
| 75) Fluoranthene            | 12.70 | 202  | 41701    | 3.662  | ng    | 97       |
| 78) Pyrene                  | 12.93 | 202  | 44854    | 5.148  | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.12 | 228  | 15174    | 2.155  | ng    | 97       |
| 83) Chrysene                | 14.16 | 228  | 16117    | 2.325  | ng    | 96       |

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



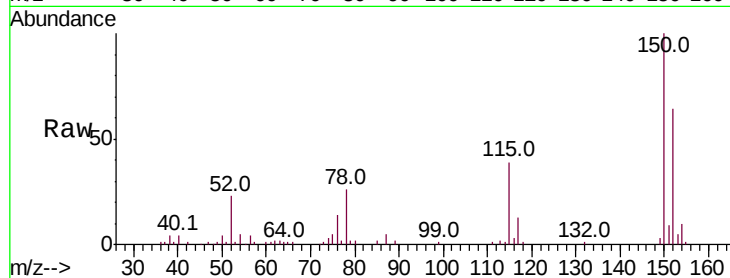


#1

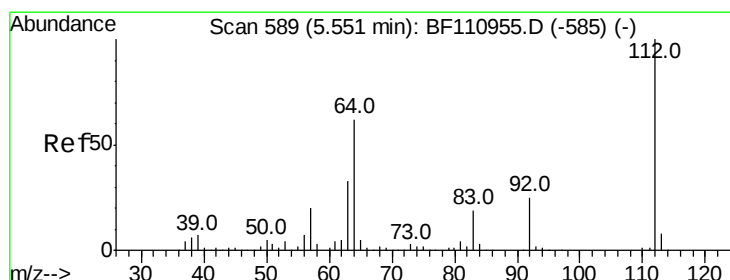
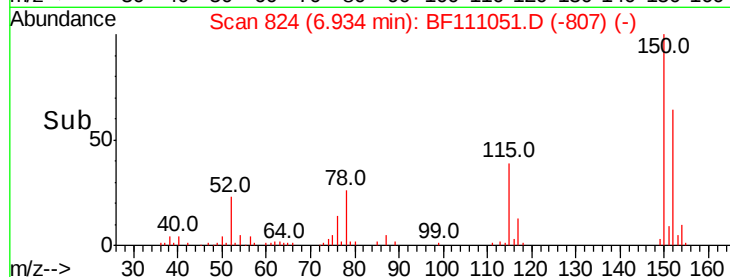
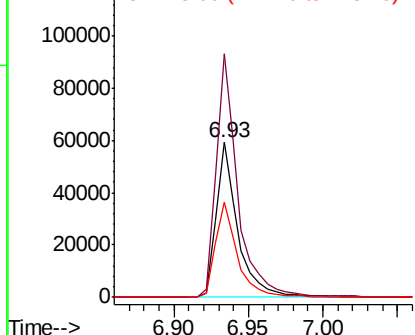
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.93 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BF111051.D  
Acq: 28 Nov 2018 17:52

Instrument :  
BNA\_F  
ClientSampleId :  
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Tot Ion:152 Resp: 59489  
Ion Ratio Lower Upper  
152 100  
150 156.9 122.7 184.1  
115 61.7 49.1 73.7



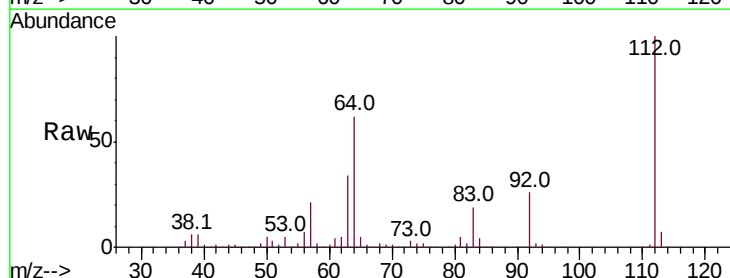
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



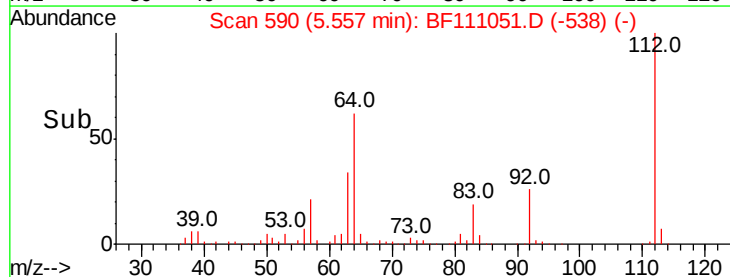
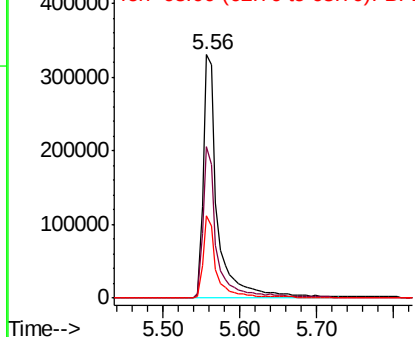
#5

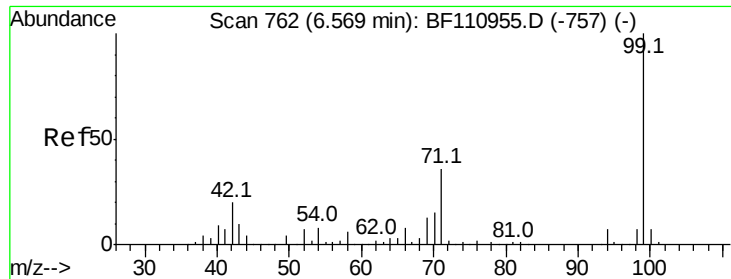
2-Fluorophenol  
Concen: 121.351 ng  
RT: 5.56 min Scan# 590  
Delta R.T. 0.01 min  
Lab File: BF111051.D  
Acq: 28 Nov 2018 17:52

Tgt Ion:112 Resp: 435325  
Ion Ratio Lower Upper  
112 100  
64 62.3 44.1 66.1  
63 33.6 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: 117.230 ng

RT: 6.56 min Scan# 761

Delta R.T. -0.01 min

Lab File: BF111051.D

Acq: 28 Nov 2018 17:52

Instrument :

BNA\_F

ClientSampleId :

20180945-COMPOSITE-4

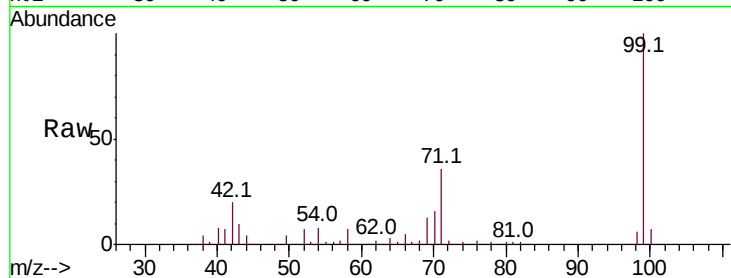
Tot Ion: 99 Resp: 548035

Ion Ratio Lower Upper

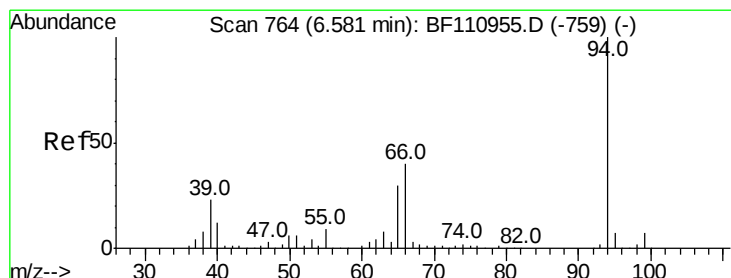
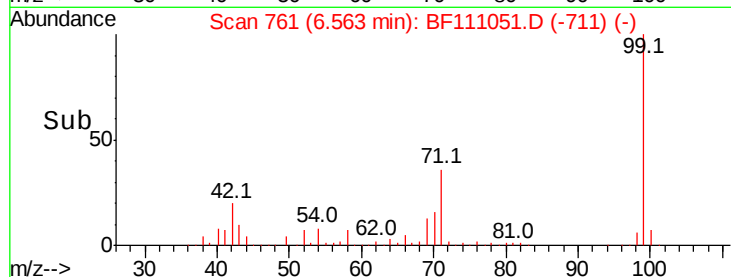
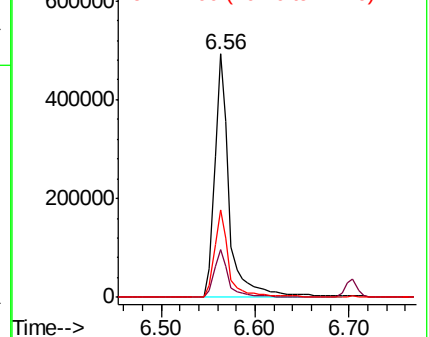
99 100

42 19.8 15.8 23.6

71 35.7 28.0 42.0



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



#10

Phenol

Concen: 5.754 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF111051.D

Acq: 28 Nov 2018 17:52

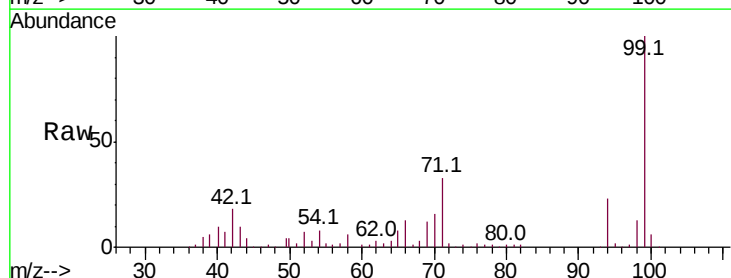
Tgt Ion: 94 Resp: 30293

Ion Ratio Lower Upper

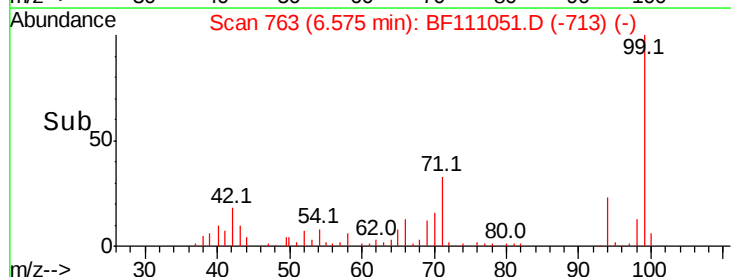
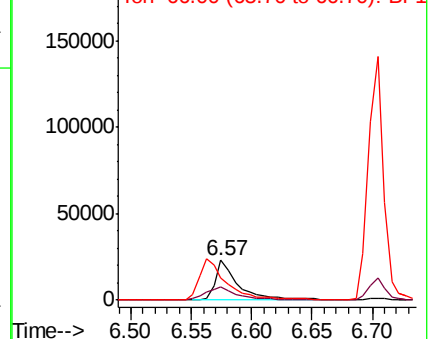
94 100

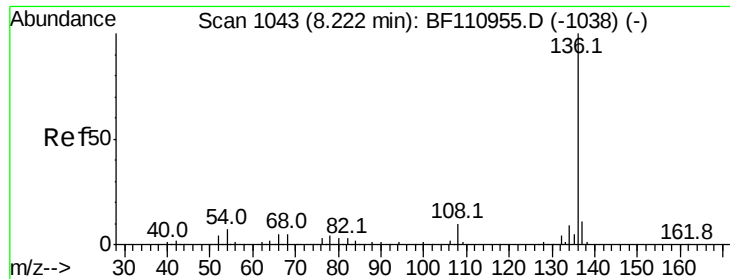
65 33.8 25.3 65.3

66 57.0 54.5 94.5



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

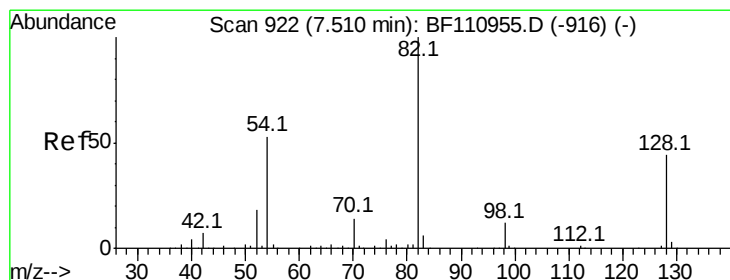
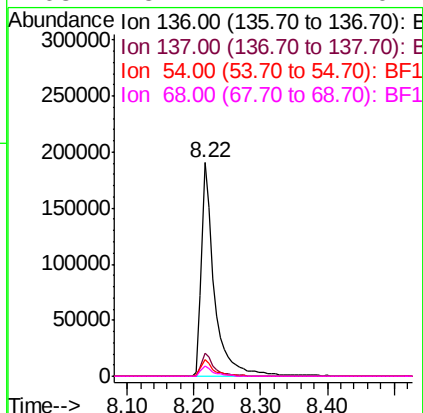
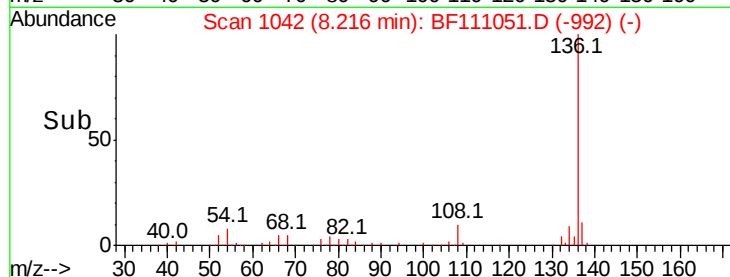
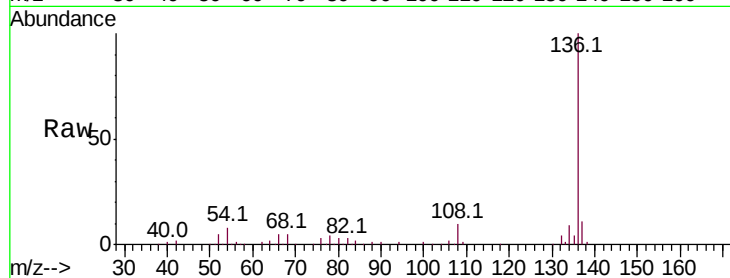




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.22 min Scan# 1042  
Delta R.T. -0.01 min  
Lab File: BF111051.D  
Acq: 28 Nov 2018 17:52

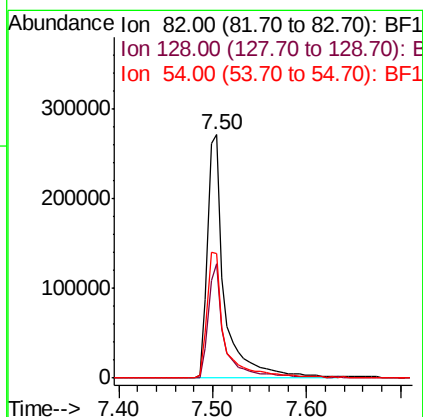
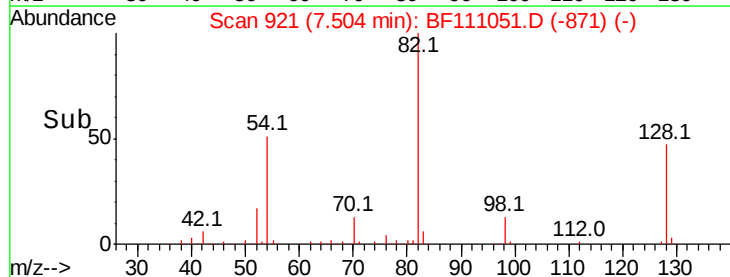
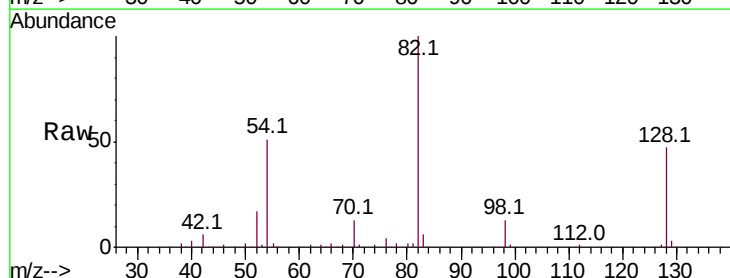
Instrument :  
BNA\_F  
ClientSampleId :  
20180945-COMPOSITE-4

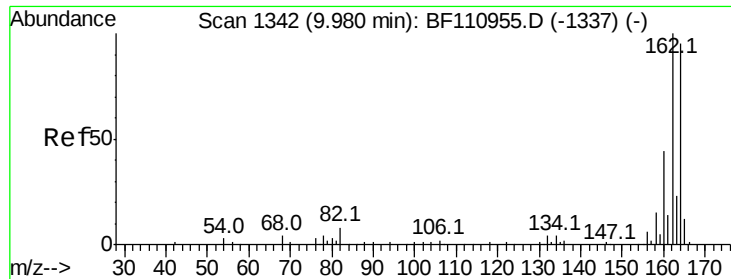
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 251388 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.8   | 13.2   |
| 54       | 8.0   | 5.4   | 8.2    |
| 68       | 5.1   | 4.2   | 6.2    |



#23  
Nitrobenzene-d5  
Concen: 79.741 ng  
RT: 7.50 min Scan# 921  
Delta R.T. -0.01 min  
Lab File: BF111051.D  
Acq: 28 Nov 2018 17:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 350267 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.7  | 34.2  | 51.2   |
| 54       | 51.1  | 38.6  | 58.0   |

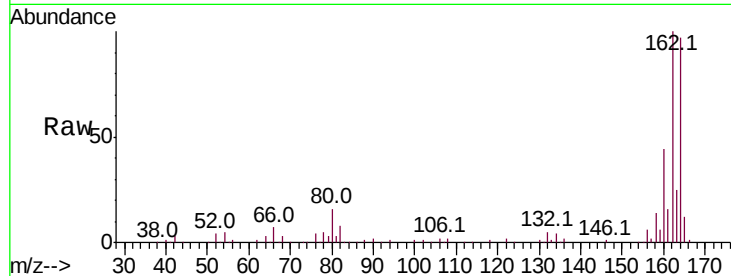




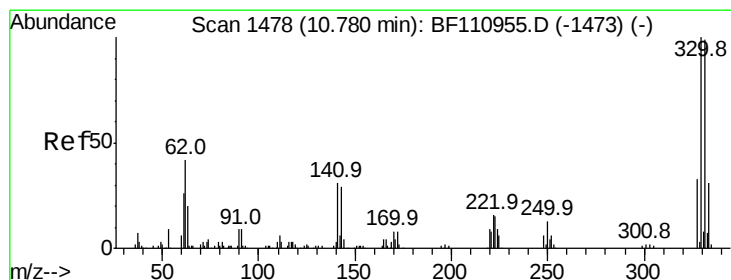
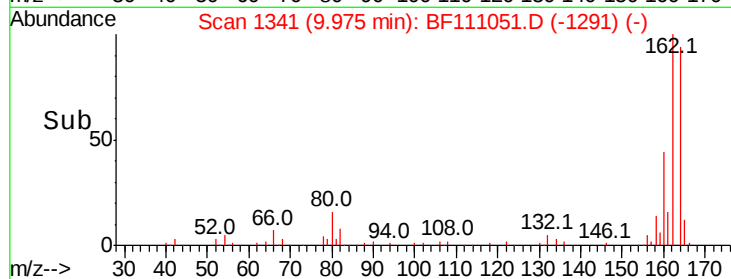
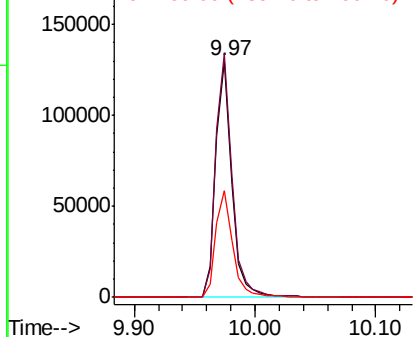
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.97 min Scan# 1341  
Delta R.T. -0.01 min  
Lab File: BF111051.D  
Acq: 28 Nov 2018 17:52

Instrument :  
BNA\_F  
ClientSampleId :  
20180945-COMPOSITE-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.0 | 83.0  | 124.6 |
| 160     | 45.0  | 37.0  | 55.6  |

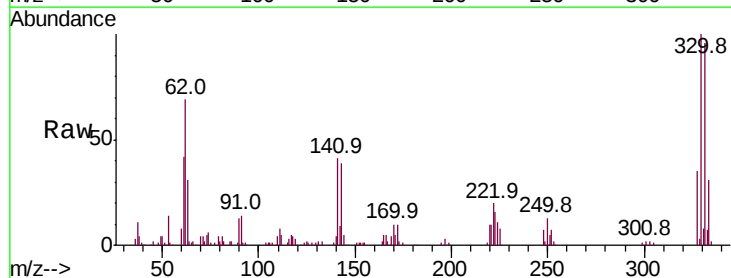


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

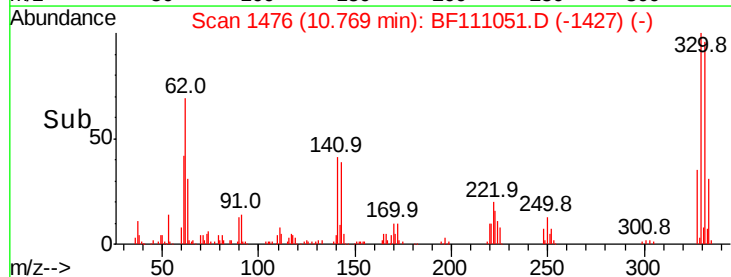
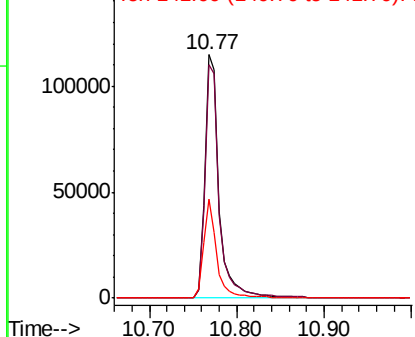


#42  
2,4,6-Tribromophenol  
Concen: 109.589 ng  
RT: 10.77 min Scan# 1476  
Delta R.T. -0.01 min  
Lab File: BF111051.D  
Acq: 28 Nov 2018 17:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 77.1  | 115.7 |
| 141     | 37.2  | 27.0  | 40.4  |



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

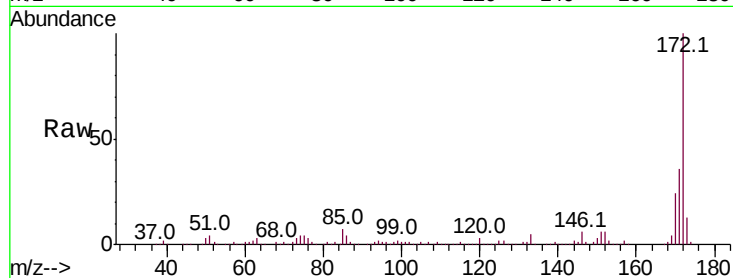




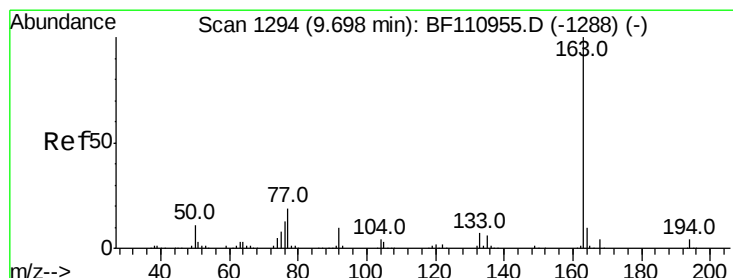
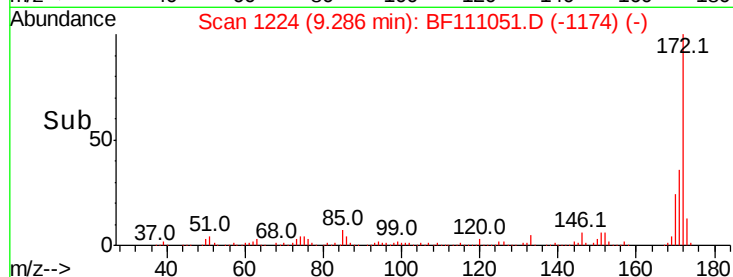
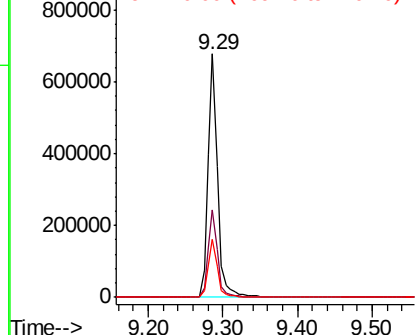
#45  
 2-Fluorobiphenyl  
 Concen: 74.051 ng  
 RT: 9.29 min Scan# 1224  
 Delta R.T. -0.01 min  
 Lab File: BF111051.D  
 Acq: 28 Nov 2018 17:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 20180945-COMPOSITE-4

Tot Ion:172 Resp: 609855  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 28.6 43.0  
 170 23.6 19.7 29.5

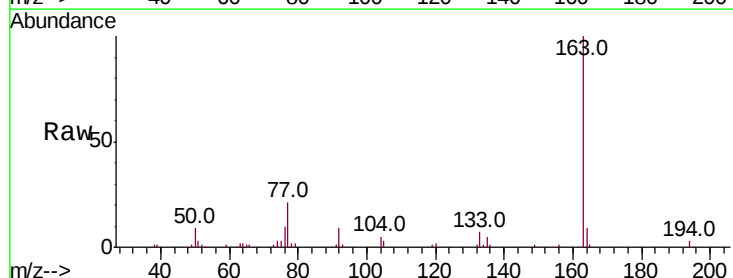


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

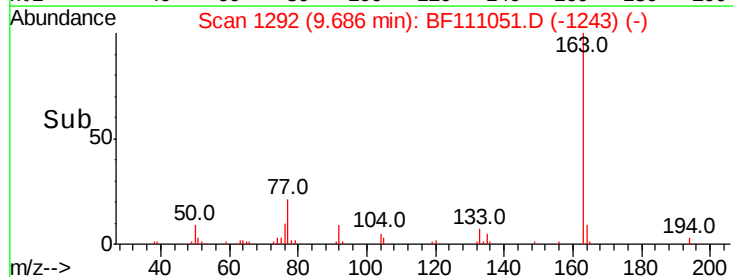
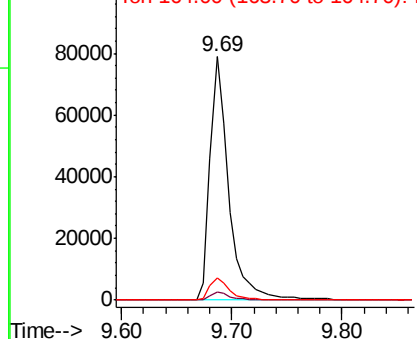


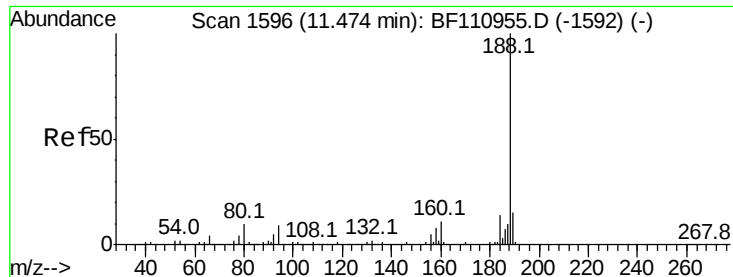
#50  
 Dimethylphthalate  
 Concen: 10.357 ng  
 RT: 9.69 min Scan# 1292  
 Delta R.T. -0.01 min  
 Lab File: BF111051.D  
 Acq: 28 Nov 2018 17:52

Tgt Ion:163 Resp: 90629  
 Ion Ratio Lower Upper  
 163 100  
 194 3.4 3.2 4.8  
 164 9.3 8.1 12.1



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: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF111051.D

Acq: 28 Nov 2018 17:52

Instrument :

BNA\_F

ClientSampleId :

20180945-COMPOSITE-4

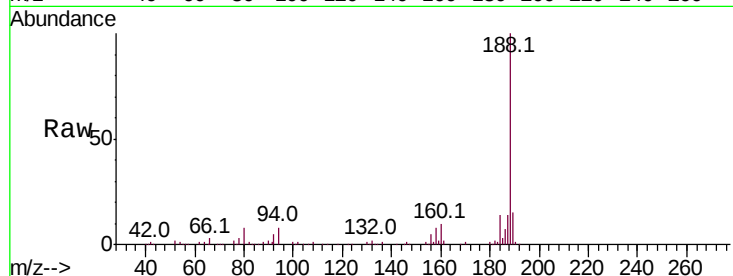
Tot Ion:188 Resp: 209190

Ion Ratio Lower Upper

188 100

94 7.6 7.2 10.8

80 8.2 7.9 11.9



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

250000

200000

150000

100000

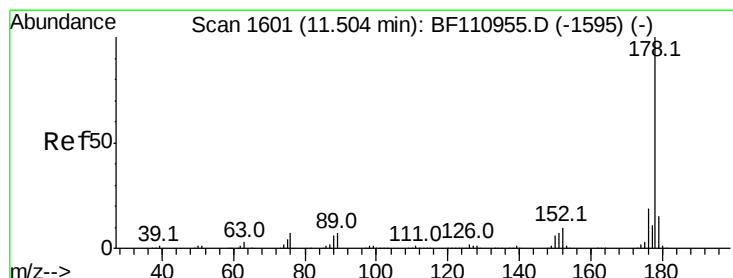
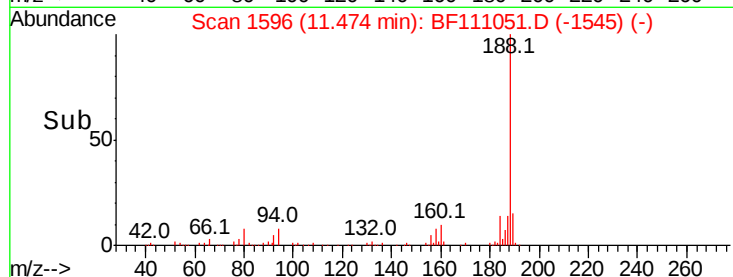
50000

0

11.47

11.40 11.50 11.60

Time-->



#71

Phenanthrene

Concen: 4.145 ng

RT: 11.50 min Scan# 1600

Delta R.T. -0.01 min

Lab File: BF111051.D

Acq: 28 Nov 2018 17:52

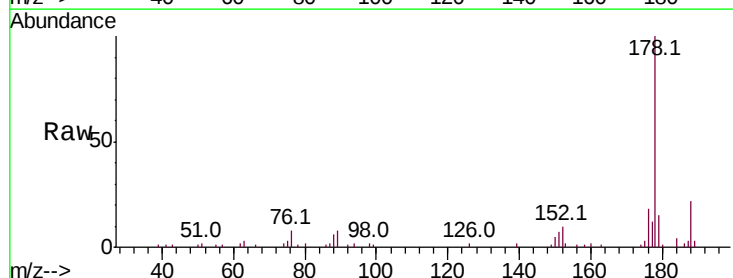
Tgt Ion:178 Resp: 45924

Ion Ratio Lower Upper

178 100

176 18.0 15.5 23.3

179 15.0 12.5 18.7



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

50000

40000

30000

20000

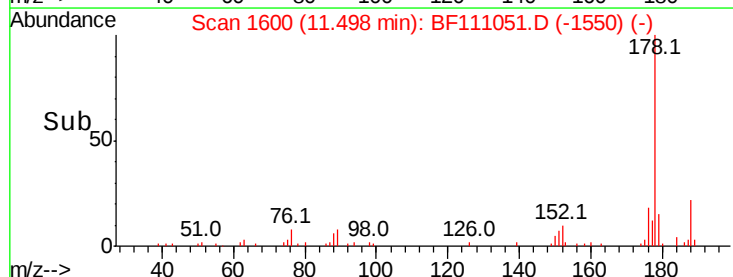
10000

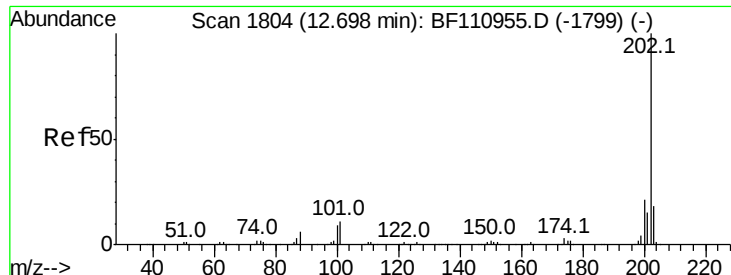
0

11.50

11.45 11.50 11.55

Time-->





#75

Fluoranthene

Concen: 3.662 ng

RT: 12.70 min Scan# 1804

Delta R.T. -0.00 min

Lab File: BF111051.D

Acq: 28 Nov 2018 17:52

Instrument :

BNA\_F

ClientSampleId :

20180945-COMPOSITE-4

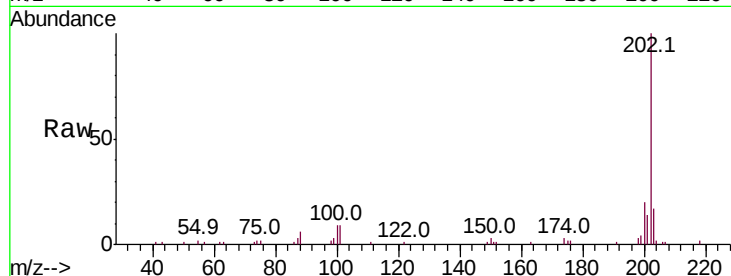
Tot Ion:202 Resp: 41701

Ion Ratio Lower Upper

202 100

101 9.4 0.0 31.4

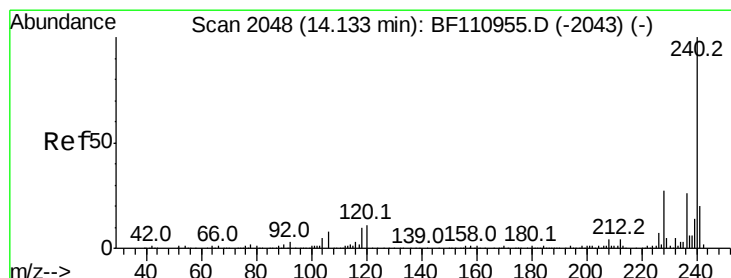
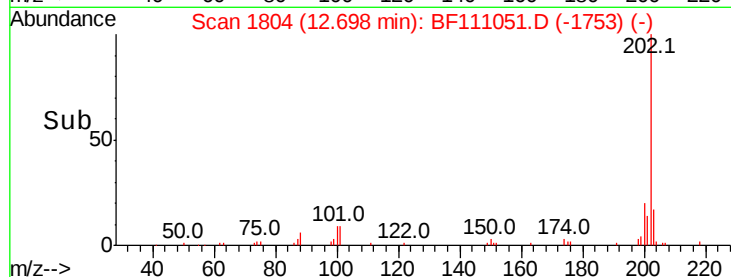
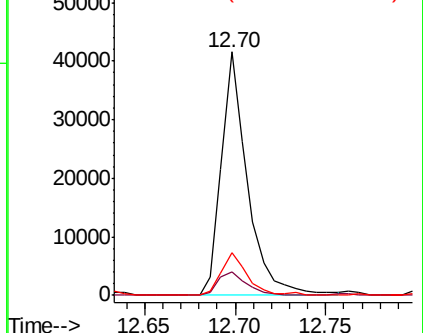
203 17.4 0.0 37.7



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: 14.13 min Scan# 2047

Delta R.T. -0.01 min

Lab File: BF111051.D

Acq: 28 Nov 2018 17:52

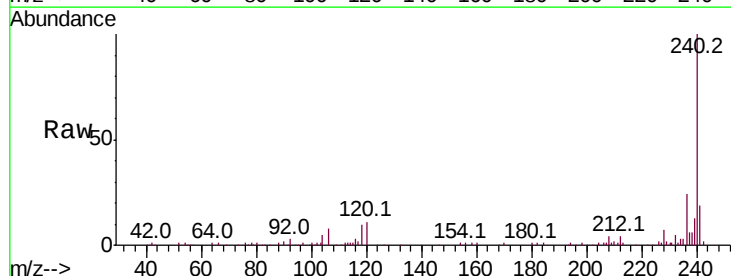
Tgt Ion:240 Resp: 119292

Ion Ratio Lower Upper

240 100

120 11.3 8.3 12.5

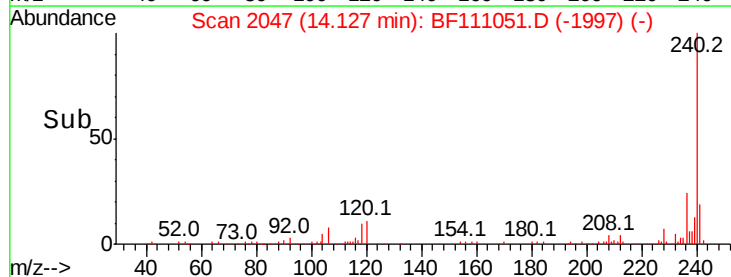
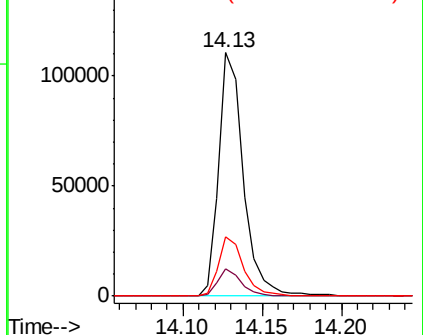
236 24.4 21.2 31.8

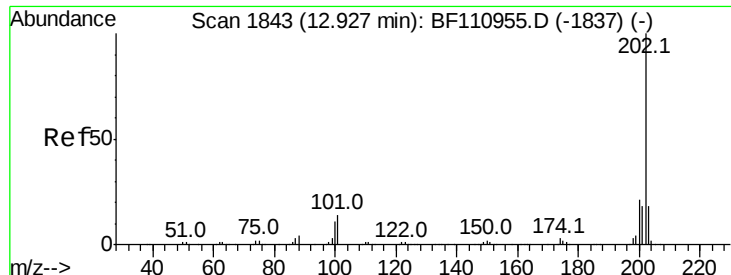


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

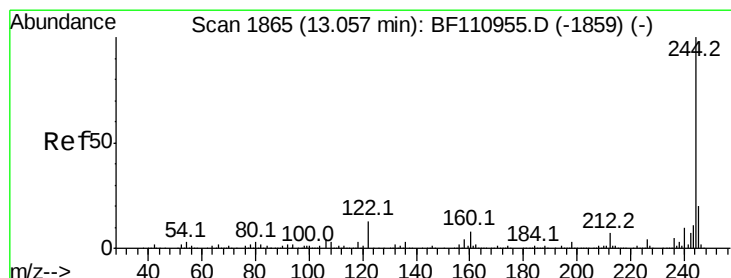
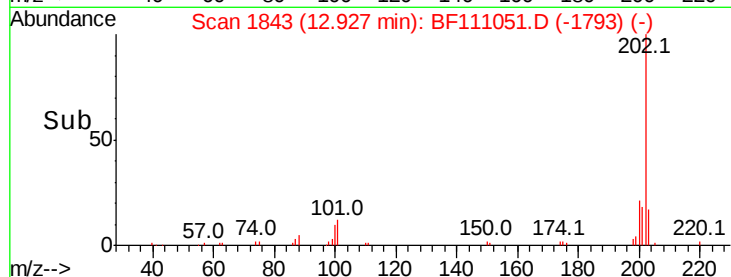
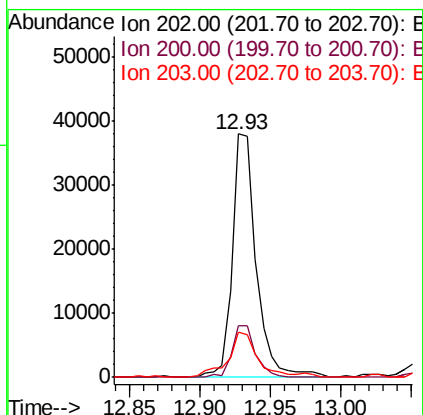
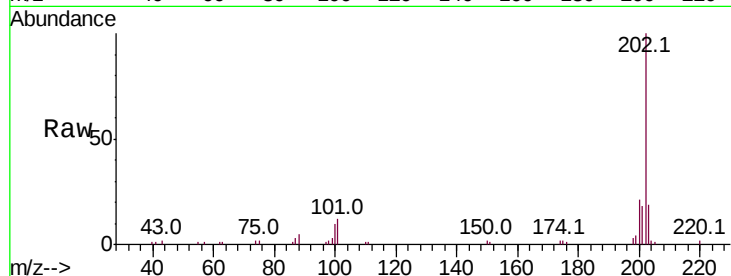




#78  
Pvrene  
Concen: 5.148 ng  
RT: 12.93 min Scan# 1843  
Delta R.T. -0.01 min  
Lab File: BF111051.D  
Acq: 28 Nov 2018 17:52

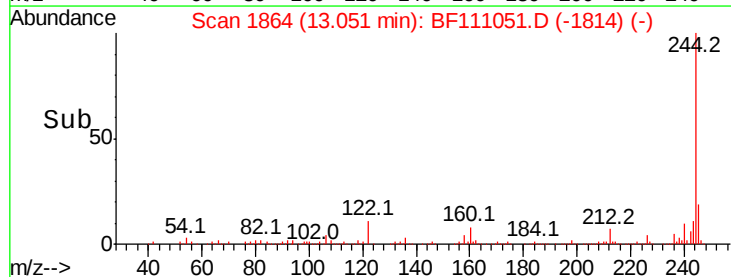
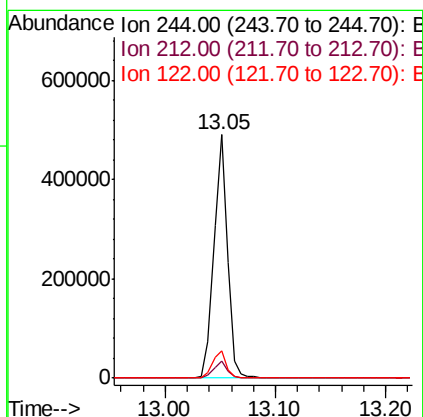
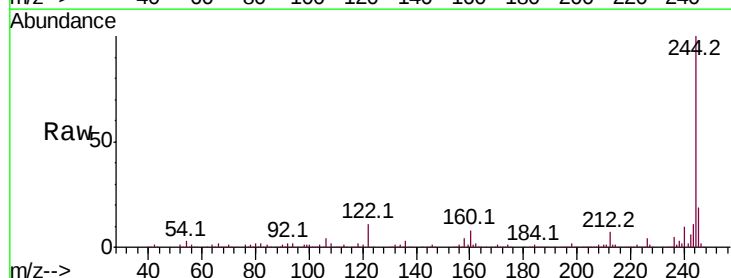
Instrument :  
BNA\_F  
ClientSampleId :  
20180945-COMPOSITE-4

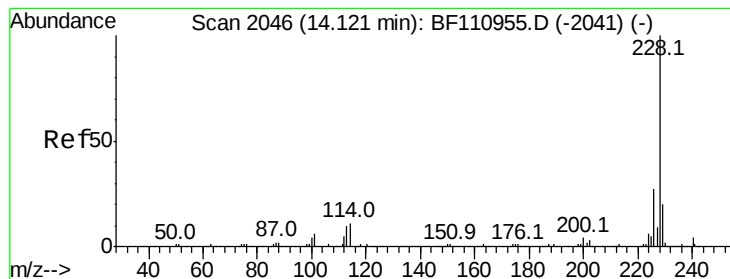
Tot Ion:202 Resp: 44854  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.8 26.6  
203 18.7 14.2 21.4



#79  
Terphenyl-d14  
Concen: 67.213 ng  
RT: 13.05 min Scan# 1864  
Delta R.T. -0.01 min  
Lab File: BF111051.D  
Acq: 28 Nov 2018 17:52

Tgt Ion:244 Resp: 411887  
Ion Ratio Lower Upper  
244 100  
212 7.0 5.8 8.8  
122 11.4 8.7 13.1





#81

Benzo(a)anthracene

Concen: 2.155 ng

RT: 14.12 min Scan# 2046

Delta R.T. -0.00 min

Lab File: BF111051.D

Acq: 28 Nov 2018 17:52

Instrument :

BNA\_F

ClientSampleId :

20180945-COMPOSITE-4

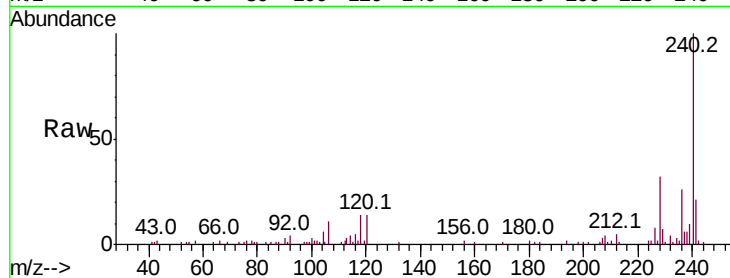
Tot Ion:228 Resp: 15174

Ion Ratio Lower Upper

228 100

226 26.2 22.1 33.1

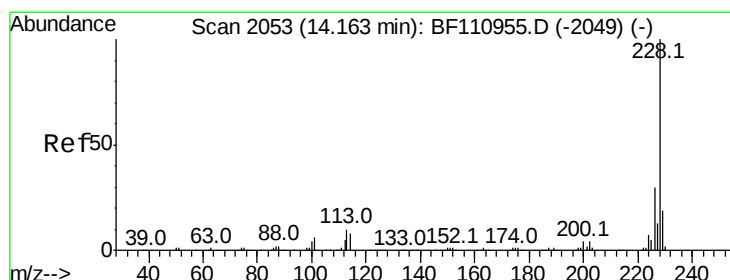
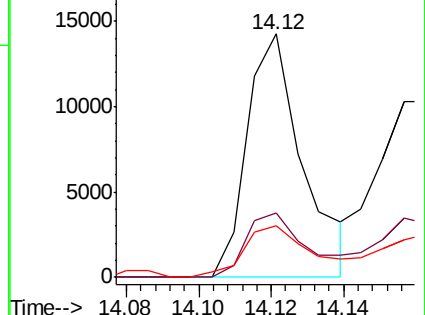
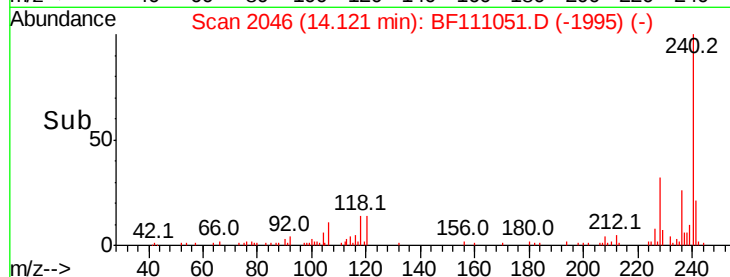
229 21.2 15.6 23.4



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



#83

Chrysene

Concen: 2.325 ng

RT: 14.16 min Scan# 2052

Delta R.T. -0.01 min

Lab File: BF111051.D

Acq: 28 Nov 2018 17:52

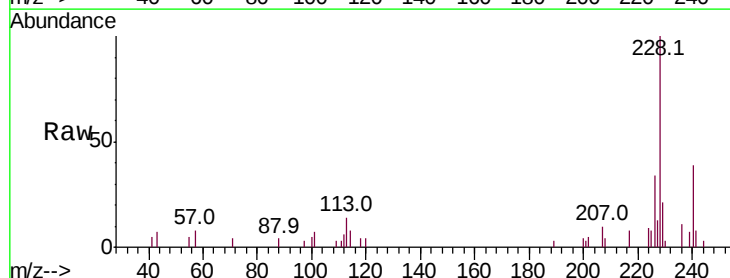
Tgt Ion:228 Resp: 16117

Ion Ratio Lower Upper

228 100

226 33.7 24.7 37.1

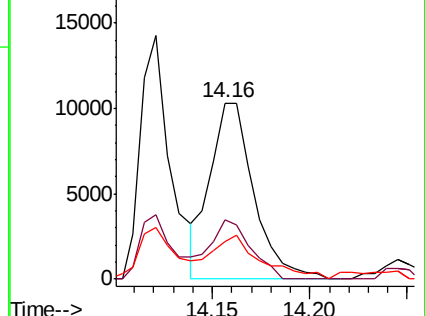
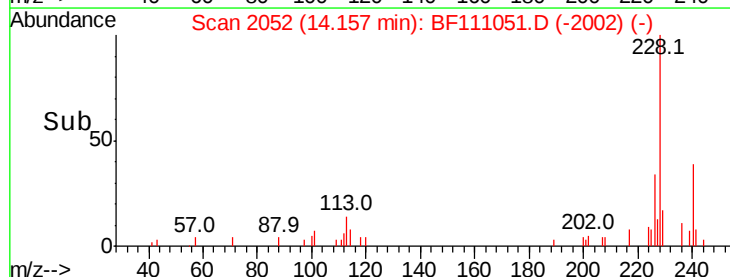
229 21.1 15.9 23.9

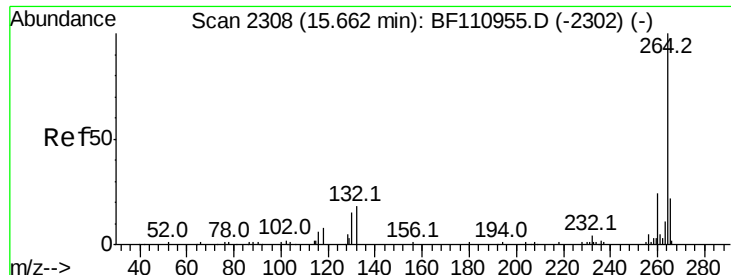


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

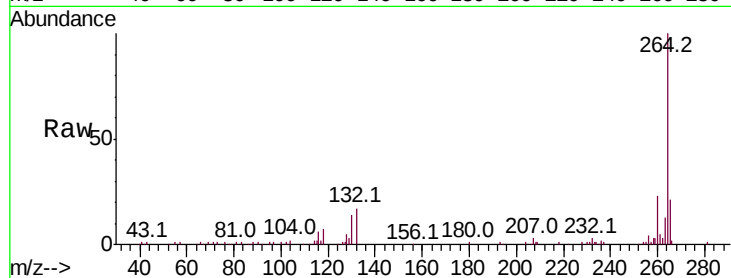




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.66 min Scan# 2308  
Delta R.T. -0.01 min  
Lab File: BF111051.D  
Acq: 28 Nov 2018 17:52

Instrument :  
BNA\_F  
ClientSampleId :  
20180945-COMPOSITE-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 18.7  | 28.1  |
| 265     | 21.2  | 16.7  | 25.1  |



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

